REVISED AGENDA

City of Beaufort

DESIGN REVIEW BOARD

Thursday, April 8, 2021, 2:00 p.m.

~~**City Hall, Planning Conference Room - 1911 Boundary Street, Beaufort SC**~~

Please click the link below to join the webinar:
https://us02web.zoom.us/j/89204602751?pwd=M2EwQ3VIVzU5Z1QzMS9mOHBWb2E0Zz09
Password: 051215 Meeting ID: 892 0460 2751 Call in Phone# 1 929 205 6099

STATEMENT OF MEDIA NOTIFICATION:
"In accordance with South Carolina Code of Laws, 1976, Section 30-4-80(d), as amended, all local media were duly notified of the time, date, place and agenda of this meeting."

Note: A project will not be reviewed if the applicant or a representative is not present at the meeting.

I. Call to Order

II. Vote of Officers – Chair and Vice-Chair

III. Review of Minutes:

A. Minutes of March 11, 2021 Meeting

IV. DRB Rules of Procedure for the Conduct of Business

V. Old Business:

A. AAA Residential Storage, PIN R123 014 000 0137 0000, R120 015 000 0116, 0526, 0523 and a portion of R120 015 000 0525 0000, 15 Sam's Point Road & 11 Williams Street

Applicant: J. Michael Brock, Brock Designs, LLC (21-03 DRB.2)

The applicant is requesting final approval of a Site Plan, Landscape Plan, multi-building storage facility and associated sales office building.

B. Harris Teeter Grocery and Fuel Center, PIN R123 015 000 587, 592 & 606, Intersection of Sams Point Road and Sea Island Parkway

Applicant: Ryan Lyle, P.E., Andrews Engineering, Inc. (20-18 DRB.2)

The applicant is requesting final approval for change after certification to the Site Plan, Landscape Plan and Lighting Plan associated with the Harris Teeter Grocery and Harris Teeter Fuel Center project.

VI. Discussion:

A. Update on DRB Re-Appointments and Filling Vacancies

VII. Adjournment

Design Review Board
Meeting Minutes – March 11, 2021

1 CALL TO ORDER 0:07

A regular meeting of the Design Review Board was held via Zoom on Thursday, March 11, 2021 at 2:00 pm.

2 ATTENDEES

Members in attendance: Benjie Morillo (Vice-Chair), Kimberly McFann and Witt Cox.

Staff in attendance: Jeremy Tate (Meadors Architecture), Dan Frazier (City of Beaufort Senior Planner of Community and Economic Development).

3 APPROVAL OF MINUTES 0:21

Motion: Mr. Cox made a motion to approve the January 14, 2021 minutes; seconded by Ms. McFann. The motion passed unanimously.

All Design Review Board Meeting minutes are recorded, and can be found on the City's website at http://www.cityofbeaufort.org/AgendaCenter. Audio recordings are available upon request by contacting the City Clerk, Ivette Burgess at 843-525-7018 or by email at iburgess@cityofbeaufort.org.

4 OLD BUSINESS 0:45

A. Garden Oaks Apartments, PIN R120 029 000 0509 0000, Salem Road

Applicant: Pat Iannelli, PDI Architecture (21-02 DRB.2)

The applicant is requesting final approval of a multi-building apartment development, including thirteen 3-story apartment buildings, and a clubhouse, shelter and amenity building. A total of 288 units are proposed, including 96 1-bedroom units, 132 2-bedroom units and 60 3-bedroom units.

Mr. Morillo, Vice-Chair, invited public comment.

Motion: Ms. McFann made a motion to grant Final approval subject to all staff recommendations that the Board has gone through and with the addition of a brick chimney, the 12" Live Oak to go where the fountain is shown in the renderings and the change to the dutch gable roof on the clubhouse entry.

DRAFT

Mr. Tate asked McFann's motion could include a speed bump and crosswalk added at the northern connection access road. Ms. McFann asked that this information be added to her motion.

The motion was seconded by Mr. Cox. The motion passed unanimously.

5 NEW BUSINESS 1:04:36

A. <u>Refuel Beaufort #1509, PIN R120 026 000 0106 0000</u>, 4 County Shed Road

Applicant: Christopher Friend, AIA, Graham Group Architecture, PC (21-05 DRB.1)

The applicant is requesting preliminary approval of a 4,894 s.f. convenience store, gas canopy over five fuel islands, and car wash. Each fueling island contains 2 gas pumps/4 total fuel positions.

Mr. Morillo, Vice-Chair, invited public comment.

Motion: Ms. McFann made a motion to grant preliminary approval subject to staff recommendations and modifications that have been discussed regarding comments 16, 18, 19, 21, 22 and 25; seconded by Mr. Witt.

Mr. Frazier mentioned that comment 20 was modified as well. Ms. McFann amended her motion to add comment 20. Mr. Morillo seconded the amendment. Mr. Tate asked the vote was for the entire motion or just the amended motion. Mr. Morillo said the entire motion as amended. The motion passed unanimously.

6 DISCUSSION

Mr. Morillo said we need to find more board members. Mr. Frazier said the new City Clerk will be advertising for new members shortly.

Mr. Cox said the Board never adopted the checklist that Rett created as far as what is required for Conceptual, Preliminary, and Final submittals. Ms. McFann requested this be on the next month agenda. Mr. Tate said we have checklist to review as well. Also, a Rules & Procedures needs to be reviewed at the next meeting.

7 ADJOURNMENT 2:15:50

Mr. Cox made a motion to adjourn; seconded Mr. Morillo. The motion passed unanimously. The meeting ended at 4:20 p.m.

Chair

Date of approval

Design Review Board

RULES OF PROCEDURE FOR THE CONDUCT OF BUSINESS

Proposed New Document 3.31.2021

These Rules of Procedure are adopted by the City of Beaufort Design Review Board in accordance with the provisions of S.C. Code 6-29-870 and section 10.7.4.D.1 of The Beaufort Code, The City of Beaufort, SC, adopted June 27, 2017, amended July 10, 2018.

Section 1. - Rules of Order

Robert's Rules of Order shall govern the conduct of meetings except as otherwise provided by these Rules of Procedure.

Section 2. – Conduct of Hearing

The normal order of hearing, subject to modification by the Chairman, shall be:

A. The Chairman introduces the matter to be heard – *project address and applicant request, i.e.: conceptual, preliminary, or final approval;*

B. Staff introduction of the project, providing the context and historic background;

C. Statement by the applicant (normally about 5 minutes);

D. Public comment (Normally limited to about 2 minutes per person or as determined by the Chairman);

E. Public comments closed;

F. Applicant responses to the board regarding public comment (Normally about 5 minutes);

G. Staff recommendation to Board;

H. Applicant points of clarification to the board in response to the staff recommendation (Normally about 3 minutes);

I. Full Board discussion. *Board Members may ask an applicant direct questions. Applicant may respond to specific questions, but this is not an opportunity for applicant to make additional points. The Chairman will ensure that each member of the Board has an opportunity to express their views about the project.*

J. Board action, no public or applicant comment. *The Chairman will call for a motion. Each Board member will be individually polled as to how they vote.*

Section 3. Additional Rules for Conducting Virtual Meetings

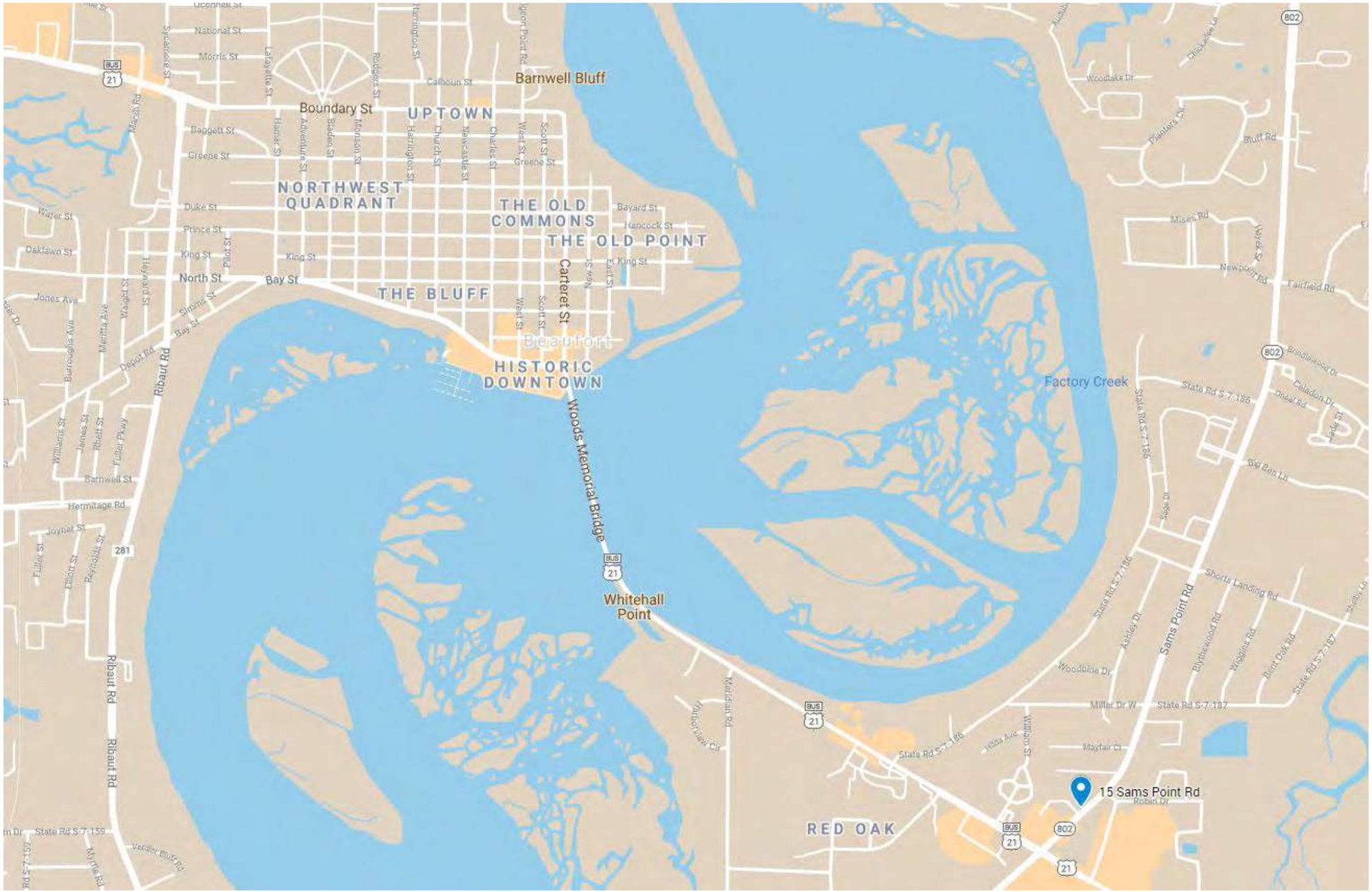
A. *The Chairman will identify a Staff member who has the responsibility of monitoring comments by the public and ensuring that the Board hears those comments.*

Section 4. Adoption.

These rules and regulations were adopted by vote of a majority of the members of the DRB at a regular public meeting on _____.

CITY STAFF INTRODUCTION

15 SAMS POINT ROAD



PROJECT LOCATION - 15 SAMS POINT ROAD






JCT
21
208

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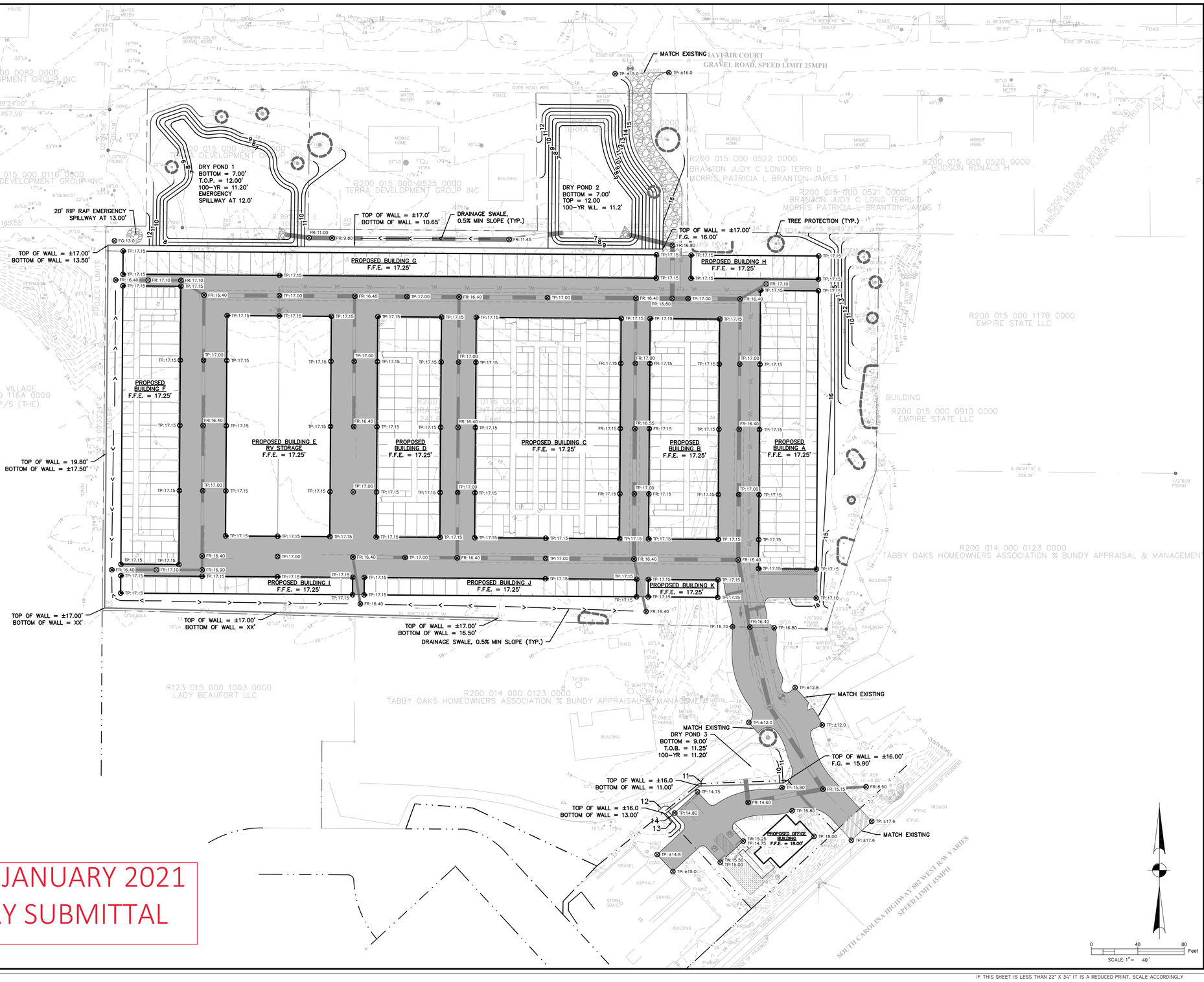
GRADING LEGEND

	PROPOSED
TOP OF PAVEMENT ELEVATION	⊗ TP: 22.50
TOP OF WALK ELEVATION	⊗ TW: 22.50
TOP OF CURB ELEVATION	⊗ TC: 22.50
FINISH GRADE	⊗ FG: 22.5
HIGH POINT	⊗ HP
LOW POINT	⊗ LP
CONTOUR	——19——
DITCH CENTERLINE	——► PD ►——
DIRECTION OF FLOW	——►
DOORWAY	▶



PAGES FROM JANUARY 2021
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NOT FOR CONSTRUCTION

SOUTH CAROLINA PROFESSIONAL ENGINEER
ERIC L. HOOD
No. 31670
REGISTERED
CERTIFICATE OF AUTHORIZATION
WARD EDWARDS, INC.
No. C00152

NO.	DESCRIPTION	DATE
1	PLAN REVISIONS	
2		
3		
4		
5		
6		
7		

Ward Edwards
ENGINEERING
P.O. BOX 381, BLUFFTON, SOUTH CAROLINA 29910
PH (843) 837-5250 / FAX (843) 837-2558
WWW.WARDEDWARDS.COM

AAA RESIDENTIAL STORAGE FACILITY
CITY OF BEAUFORT, SOUTH CAROLINA
LADY'S ISLAND STORAGE, LLC
BEAUFORT, SOUTH CAROLINA

GRADING PLAN

VERTICAL DATUM: NGVD29

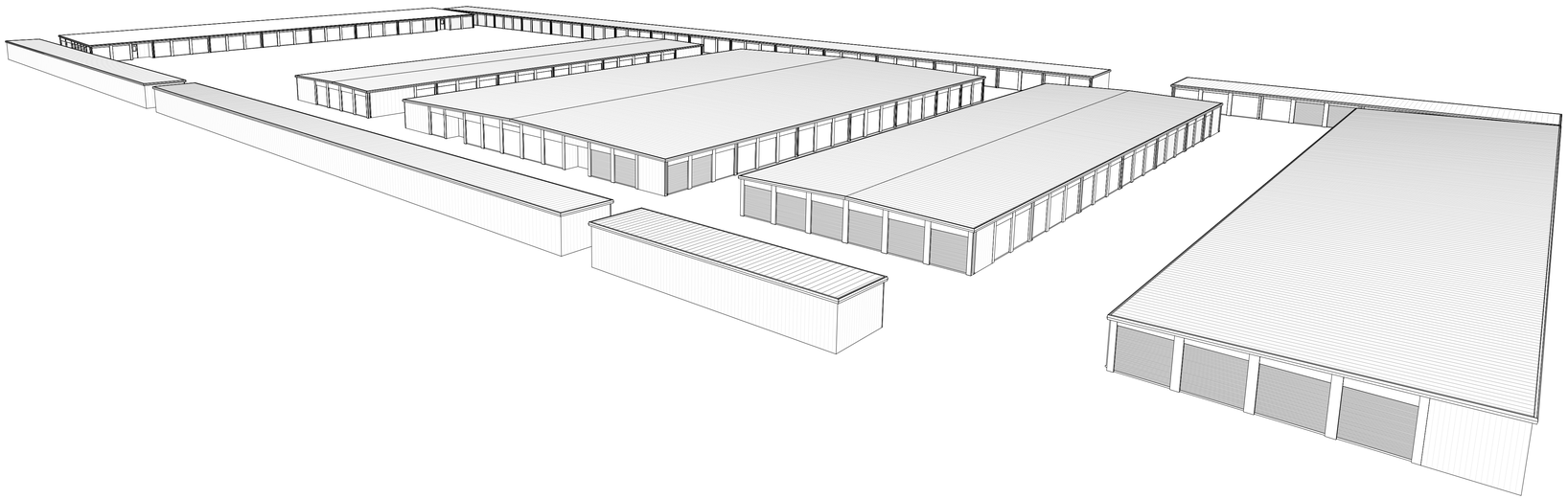
PROJECT #:	190309
DATE:	12/15/20
DESIGNED BY:	JCH
CHECKED BY:	ELH

SHEET
C501

IF THIS SHEET IS LESS THAN 22" X 34" IT IS A REDUCED PRINT, SCALE ACCORDINGLY

Lady's Island Storage

Beaufort, SC



Drawing Schedule			
Sheet Number	Sheet Name	Current Revision	Current Revision Date
S000	Coversheet		
S100	Building 'A' & 'B' Foundation Plan		
S101	Building 'C' Foundation Plans		
S102	Building 'D' & 'F' Foundation Plans		
S103	Building 'G' Foundation Plans		
S104	Building 'H' & 'I' Foundation Plans		
S105	Building 'J' & 'K' Foundation Plans		
S200	Building 'A' Plans		
S201	Building 'A' Plans		
S202	Building 'A' Elevations		
S210	Building 'B' Post Plan		
S211	Building 'B' Framing Plan		
S212	Building 'B' Roofing Plan		
S213	Building 'B' Partition Plan		
S214	Building 'B' Elevations		
S220	Building 'C' Post Plan		
S221	Building 'C' Framing Plan		
S222	Building 'C' Roofing Plan		
S223	Building 'C' Partition Plan		
S224	Building 'C' Elevations		
S230	Building 'D' Post Plan		
S231	Building 'D' Framing Plan		
S232	Building 'D' Roofing Plan		
S233	Building 'D' Partition Plan		
S234	Building 'D' Elevations		
S240	Building 'F' Post Plan		
S241	Building 'F' Framing Plan		
S242	Building 'F' Roofing & Partition Plans		
S243	Building 'F' Elevations		
S250	Building 'G' Post Plan		
S251	Building 'G' Framing Plan		
S252	Building 'G' Roofing Plan		
S253	Building 'G' Partition Plan		
S254	Building 'G' Elevations		
S255	Building 'G' Elevations		
S260	Building 'H' Plans		
S261	Building 'H' Plans		
S262	Building 'H' Elevations		
S270	Building 'I' Plans		
S271	Building 'I' Plans		
S272	Building 'I' Elevations		
S280	Building 'J' Plans		
S281	Building 'J' Plans		
S282	Building 'J' Elevations		
S290	Building 'K' Plans		
S291	Building 'K' Plans		
S700	Exterior Wall Sections		
S800	Foundation Details		
S801	Details		
S802	Details		
S803	Details		
S804	Details		
S900	Roofing Details		

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Villa Rica, Ga 30180

PHONE: 770-456-1602
TOLL FREE: 877-456-1602
FAX: 770-456-1662

www.storagestructuresinc.com

Rev. #	Revision Date	Revision Description

Dan Lynch

Lady's Island Storage

Beaufort, SC

STOP

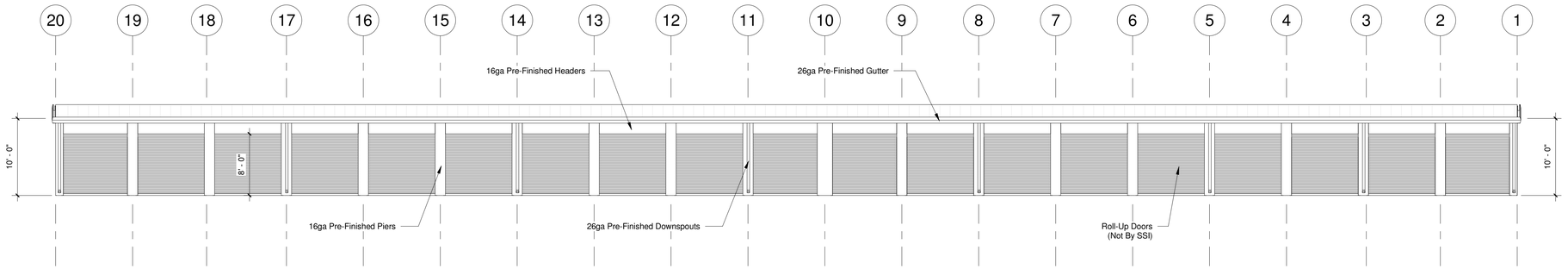
If you do not have
"For Field Use" Plans
Call (404) 558-0434
IMMEDIATELY
And ask for Beau Strickland

PRELIMINARY ISSUE SET

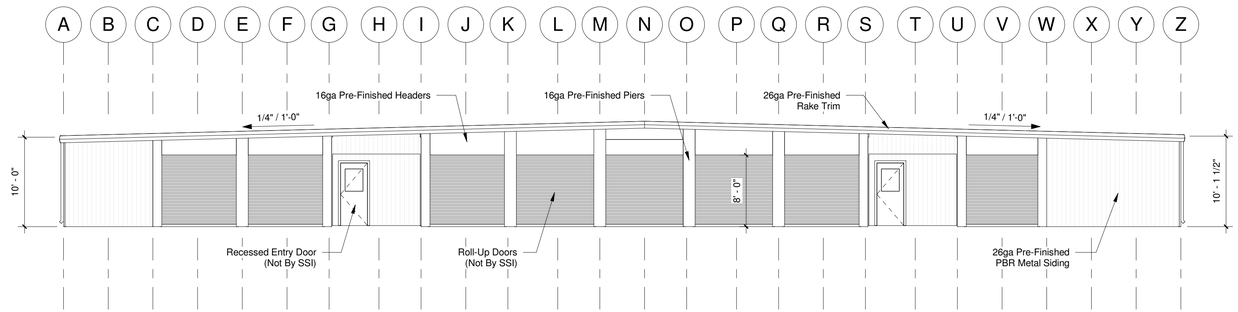
SSI Project Number	1008
Issue Date	00-00-0000
Drawn By	JLW
Checked By	SBD
Engineered By	

S000

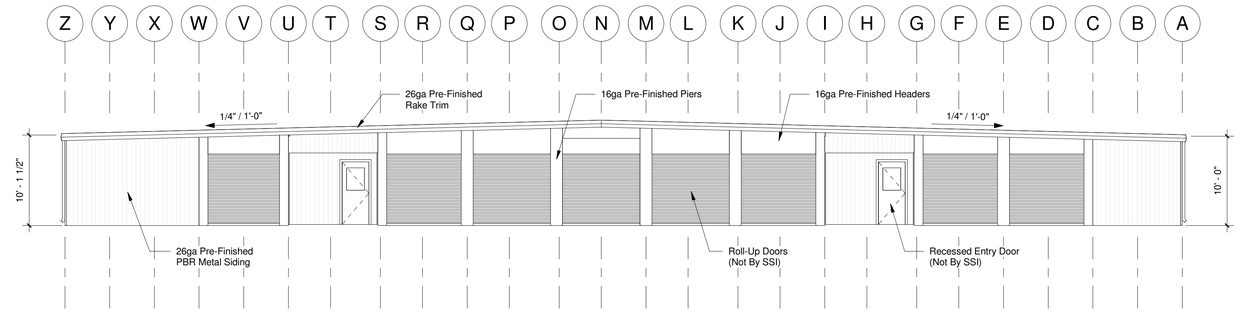
Coversheet



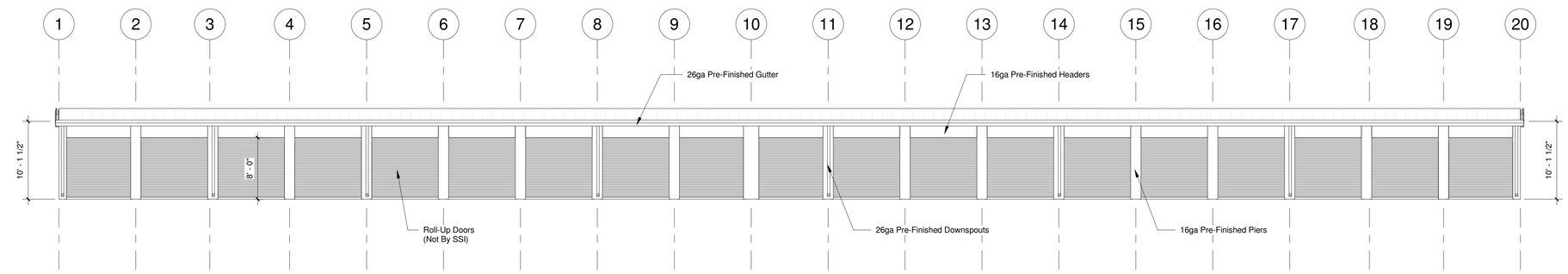
1 Building 'C' East Elevation
1/8" = 1'-0"



2 Building 'C' North Elevation
1/8" = 1'-0"



3 Building 'C' South Elevation
1/8" = 1'-0"



4 Building 'C' West Elevation
1/8" = 1'-0"

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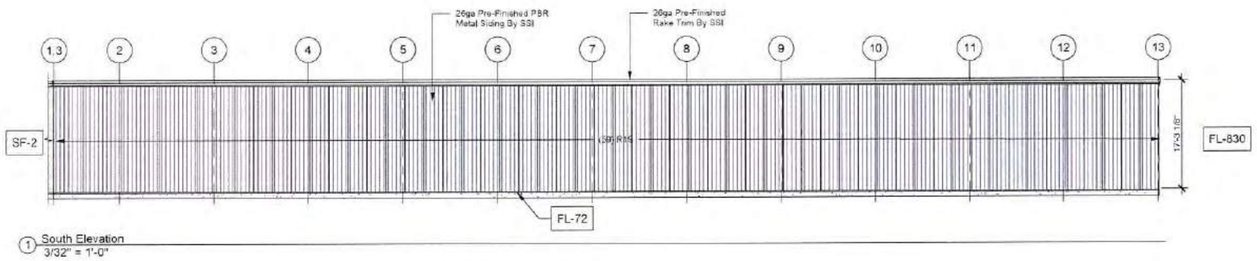
PRELIMINARY ISSUE SET

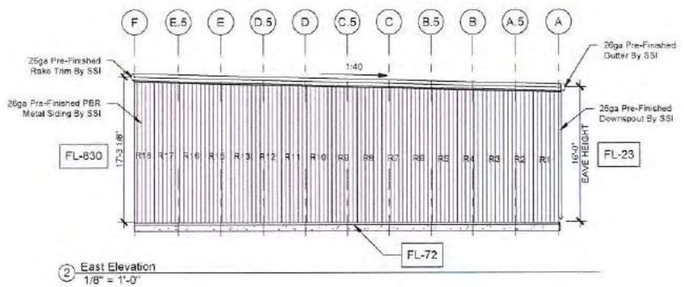
SSI Project Number	1008
Issue Date	00-00-0000
Drawn By	JLW
Checked By	SBD
Engineered By	

S224

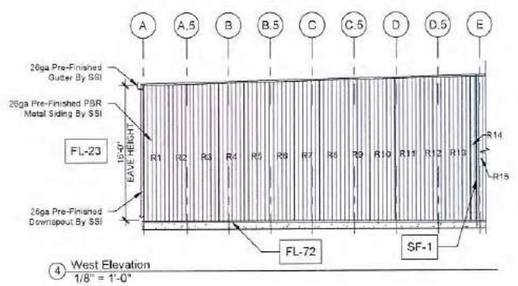
Building 'C' Elevations



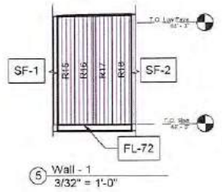
1 South Elevation
3/32" = 1'-0"



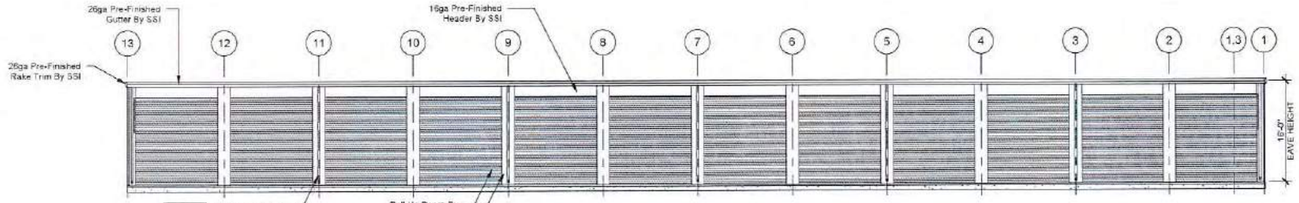
2 East Elevation
1/8" = 1'-0"



4 West Elevation
1/8" = 1'-0"



5 Wall - 1
3/32" = 1'-0"



3 North Elevation
3/32" = 1'-0"

Exterior Wall Schedule					
Mark	Quantity	Type	Gauge	Height	Color
R1	2	'R' Panel	26ga	16' - 2"	TBD
R2	2	'R' Panel	26ga	16' - 2 3/4"	TBD
R3	2	'R' Panel	26ga	16' - 3 3/4"	TBD
R4	2	'R' Panel	26ga	16' - 4 3/4"	TBD
R5	2	'R' Panel	26ga	16' - 5 1/2"	TBD
R6	2	'R' Panel	26ga	16' - 6 1/2"	TBD
R7	2	'R' Panel	26ga	16' - 7 1/4"	TBD
R8	2	'R' Panel	26ga	16' - 8 1/4"	TBD
R9	2	'R' Panel	26ga	16' - 9 1/4"	TBD
R10	2	'R' Panel	26ga	16' - 10"	TBD
R11	2	'R' Panel	26ga	16' - 11"	TBD
R12	2	'R' Panel	26ga	16' - 11 3/4"	TBD
R13	2	'R' Panel	26ga	17' - 0 3/4"	TBD
R14	1	'R' Panel	26ga	17' - 1 1/4"	TBD
R15	2	'R' Panel	26ga	17' - 1 3/4"	TBD
R16	2	'R' Panel	26ga	17' - 2 1/2"	TBD
R17	2	'R' Panel	26ga	17' - 3 1/2"	TBD
R18	2	'R' Panel	26ga	17' - 4 1/4"	TBD
R19	59	'R' Panel	26ga	17' - 4 3/4"	TBD

Wall Trim Schedule				
Mark	Quantity	Description	Length	Color
FL-23	2	Jamb Trim	16' - 1 1/2"	TBD
SF-1	1	Special Outside Corner Trim	16' - 11 1/2"	TBD
SF-2	1	Special Outside Corner Trim	17' - 2"	TBD
FL-830	1	Outside Corner Trim	17' - 2"	TBD
FL-72	29	Base Trim	10' - 3"	TBD
FL-31	7	Downspout w/Kickout	16' - 0"	TBD
FL-797	7	Downspout Strap	0' - 1"	TBD

Wall Panel Accessories			
Mark	Quantity	Description	Length
HW-455	95	PBR Inside Closure	3'-0"
HW-456	95	PBR Outside Closure	3'-0"

Fasteners		
Quantity	Description	Color
2250	#12x1 1/4" Driller w/washers	TBD
1250	#14x7/8" Lap Tek w/ washers	TBD
250	18 Pop Rivet	TBD

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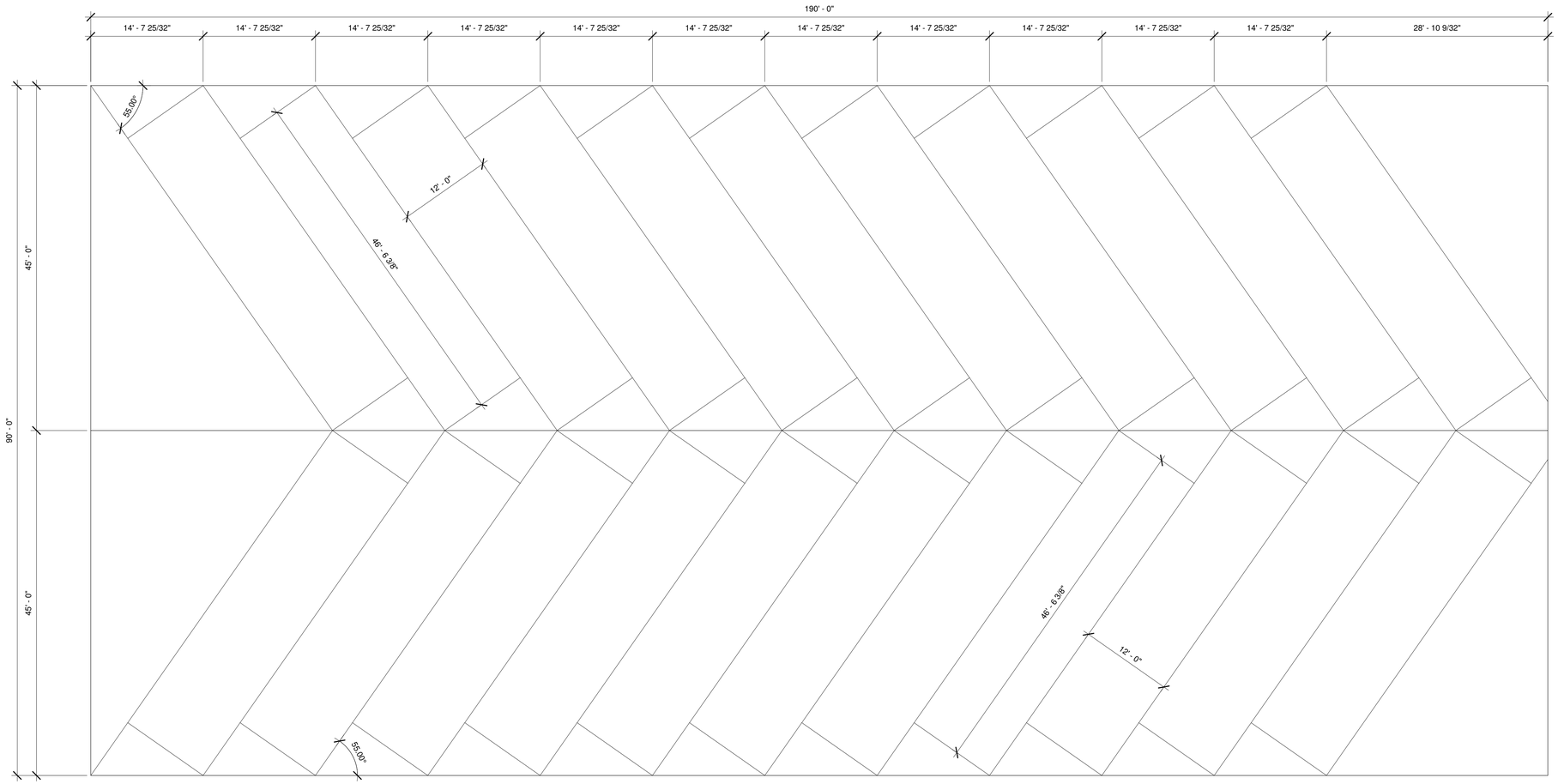
Rev. #	Revision Date	Revision Description

ISSUED FOR FIELD USE
DATE:
ISSUED BY:

SSI Project Number	1006
Issue Date	11-10-2020
Drawn By	FTL
Checked By	Checker
Engineered By	Engineer

S601
Building Elevations



1 Building 'E' (RV Unit Layout)
1/8" = 1'-0"

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Rev. #	Revision Date	Revision Description

Dan Lynch

Lady's Island Storage

18 Sams Pointe Rd
Beaufort, SC 29907

STOP

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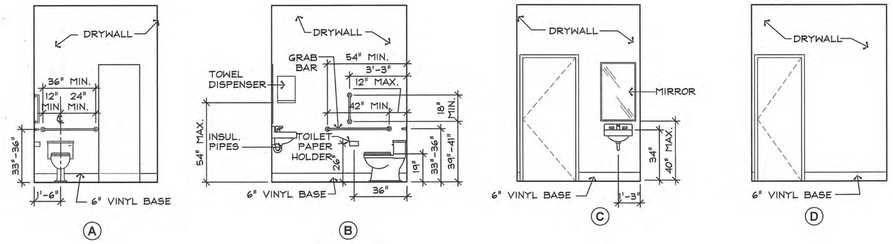
"For Field Use" Plans
Call (770) 722-5504
IMMEDIATELY
And ask for Greg Gunter

PRELIMINARY ISSUE SET

SSI Project Number	1008
Issue Date	12-16-2020
Drawn By	JLW
Checked By	
Engineered By	

S100

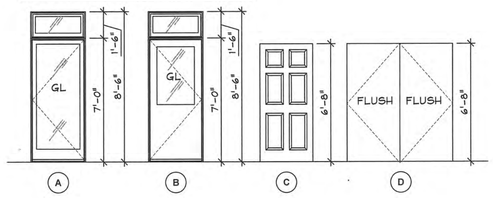
Building 'E' Unit Mix



DOOR SCHEDULE

DOOR NO.	SIZE WIDTH	SIZE HEIGHT	SIZE THK	MAT'L	FINISH	TYPE	FRAME MAT'L	FRAME TYPE	DP RATING	FIRE RATING	REMARKS
101	3'-0"	7'-0"	1-3/4"	MTL	PTD	A	WD		35	—	EXTERIOR
102	2'-6"	6'-8"	1-3/4"	WD	PTD	C	WD			—	
103	6'-0"	6'-8"	1-3/4"	WD	PTD	D	WD			—	EXTERIOR DOUBLE DOOR
104	2'-4"	6'-8"	1-3/8"	WD	PTD	C	WD			—	
105	2'-6"	6'-8"	1-3/8"	WD	PTD	C	WD			—	UNDERCUT DOOR 1/2"
106	3'-0"	6'-8"	1-3/8"	WD	PTD	C	WD			—	UNDERCUT DOOR 1/2"
107	3'-0"	7'-0"	1-3/4"	MTL	PTD	B	WD		35	—	EXTERIOR
201	3'-0"	6'-8"	1-3/8"	WD	PTD	C	WD			—	
202	3'-0"	6'-8"	1-3/8"	WD	PTD	C	WD			—	

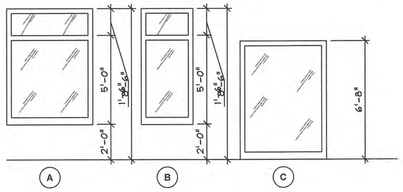
DOOR TYPE



WINDOW SCHEDULE

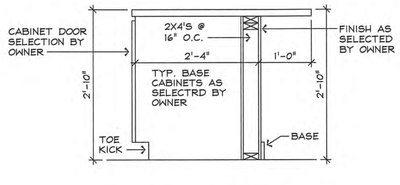
QTY	MARK	SIZE WIDTH	SIZE HEIGHT	TYPE	DP RATING	REMARK
5	A	5'-0"	5'-0"	STR. FRT.	35	W/ TRANSOM
5	B	3'-0"	5'-0"	STR. FRT.	35	W/ TRANSOM
8	C	5'-0"	5'-0"	STR. FRT.	35	W/O TRANSOM

WINDOW TYPES (MARKS)

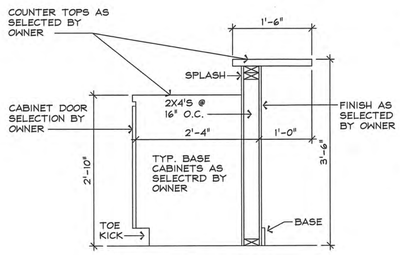


PAGES FROM JANUARY 2021
PRELIMINARY SUBMITTAL

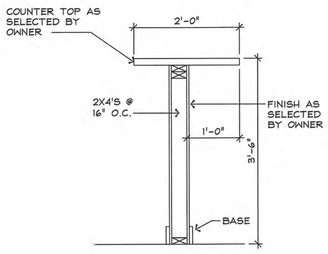
ALL DIMENSION AND MEASURE-MENTS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE



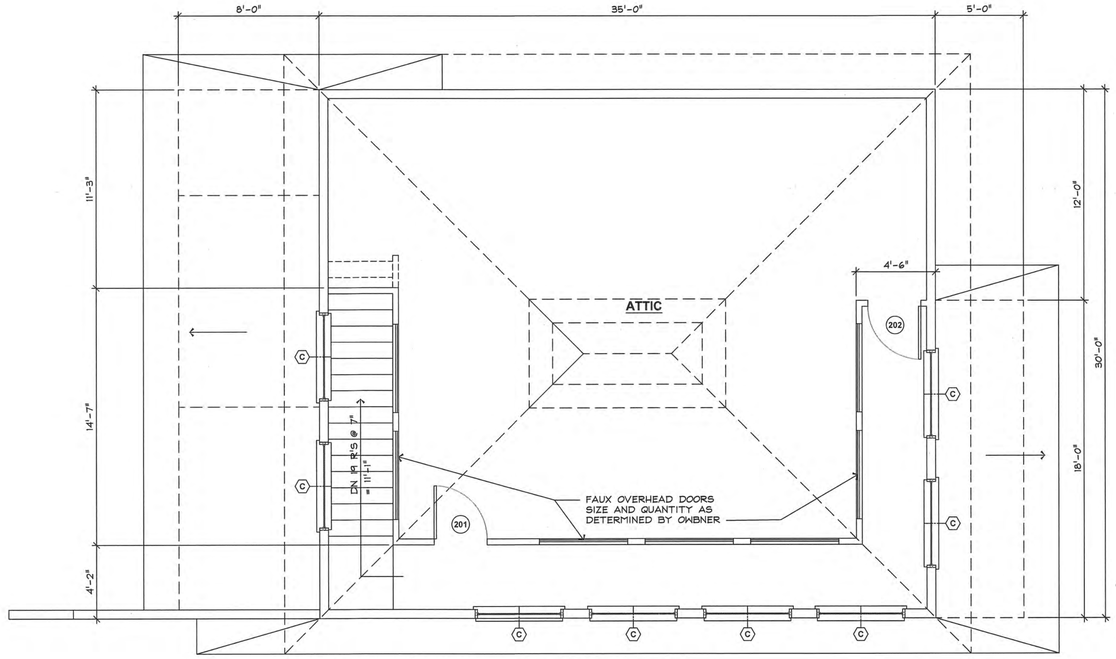
CABINET SECTION. 3/A2
3/4"=1'-0



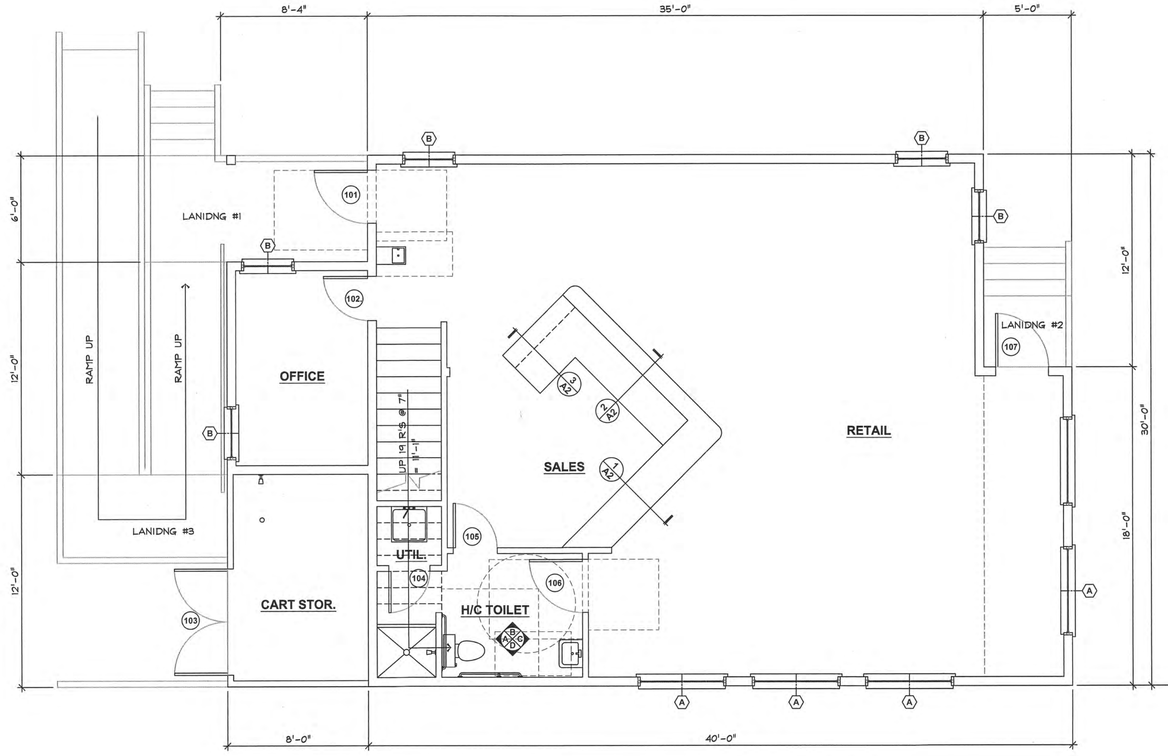
CABINET SECTION. 2/A2
3/4"=1'-0



COUNTER SECTION. 1/A2
3/4"=1'-0



ATTIC FLOOR PLAN
SCALE 1/4"=1'-0"



FIRST FLOOR PLAN
SCALE 1/4"=1'-0"

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REVISIONS

MICHAEL GRIFFITH
Architect
6045 Shrimp Works Drive
Seabrook Island, SC 29455
843-815-4282

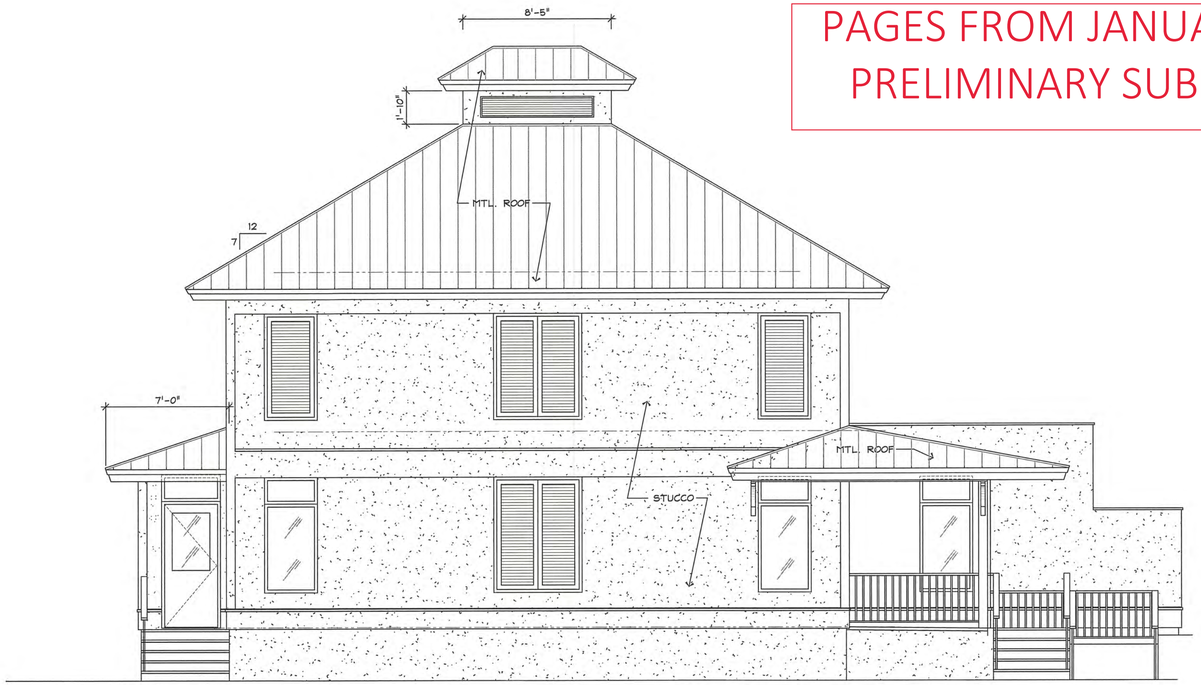
SALES OFFICE - PLANS - DETAILS

NEW BUILDINGS FOR:
AAA STORAGE WAREHOUSE FACILITY
JOHN'S ISLAND
BEAUFORT COUNTY, SC

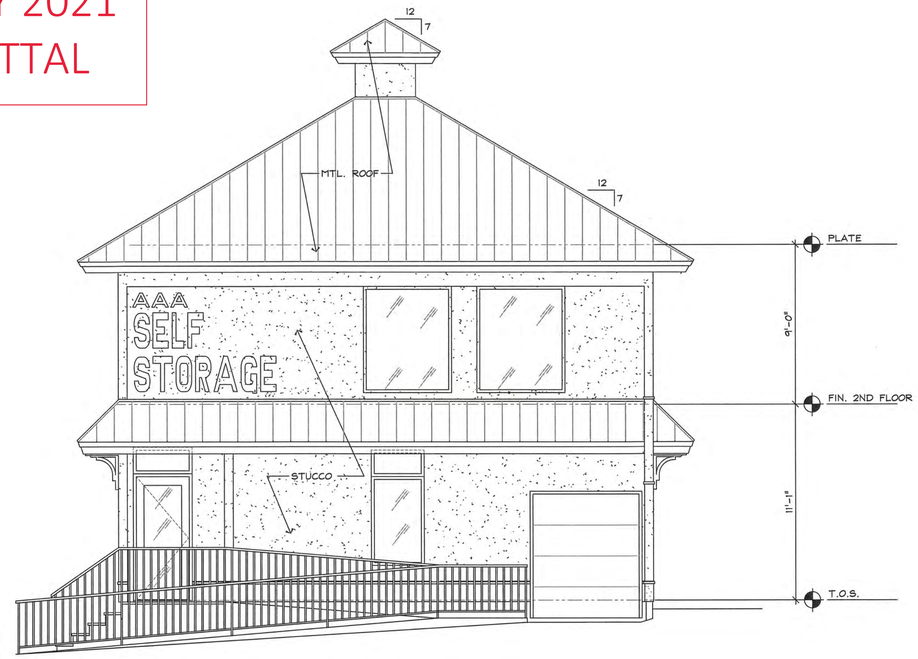
PROJECT NO: 2014
DRAWN BY: DB
CHECK'D BY: MG
SCALE: AS NOTED
DATE: 12-10-20

ARCHITECTURAL
2

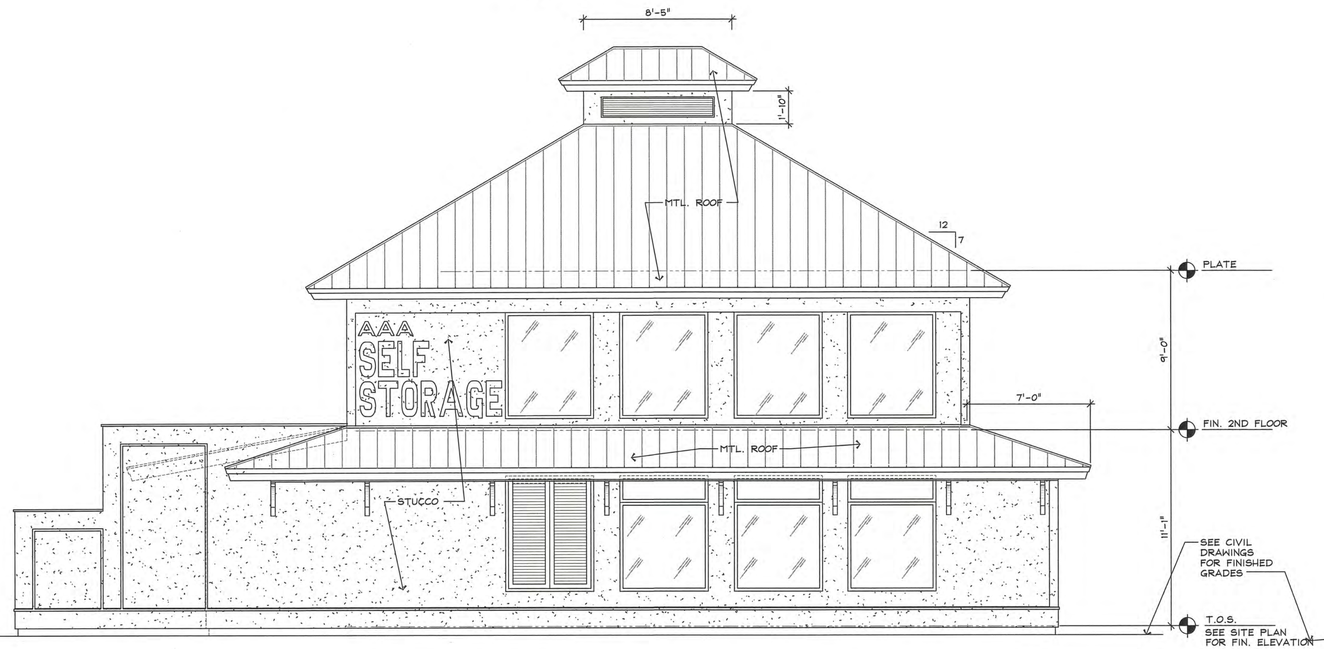
PAGES FROM JANUARY 2021
PRELIMINARY SUBMITTAL



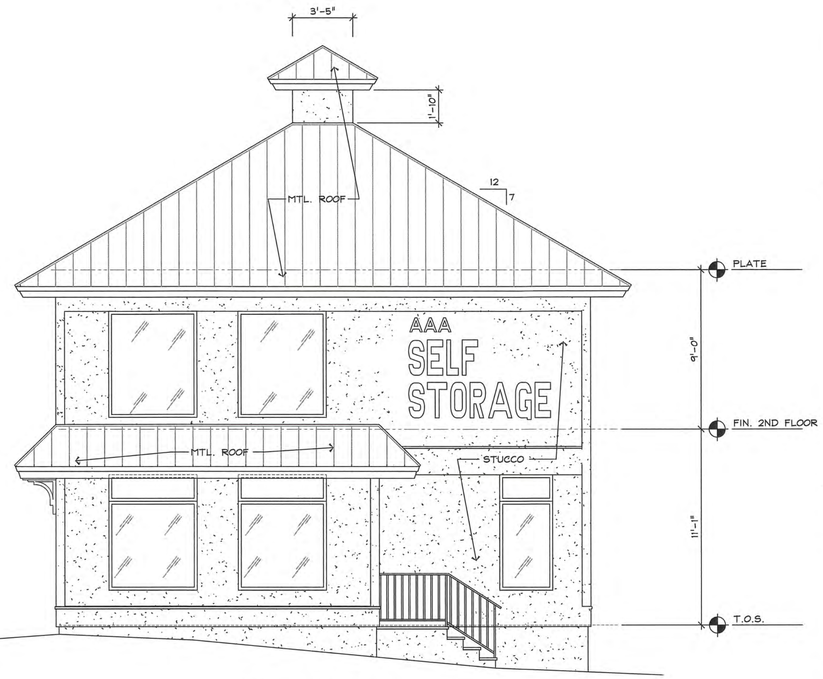
PARKING LOT ELEVATION
SCALE 1/4"=1'-0"



SOUTH ELEVATION
SCALE 1/4"=1'-0"



SAM'S POINT ROAD ELEVATION (EAST)
SCALE 1/4"=1'-0"



NORTH ELEVATION
SCALE 1/4"=1'-0"

ALL DIMENSION AND MEASUREMENTS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

REVISIONS

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MICHAEL GRIFFITH
Architect
6045 Stratford Oaks Drive
Sebring, FL 33870
843-815-4282

SALES OFFICE - ELEVATIONS

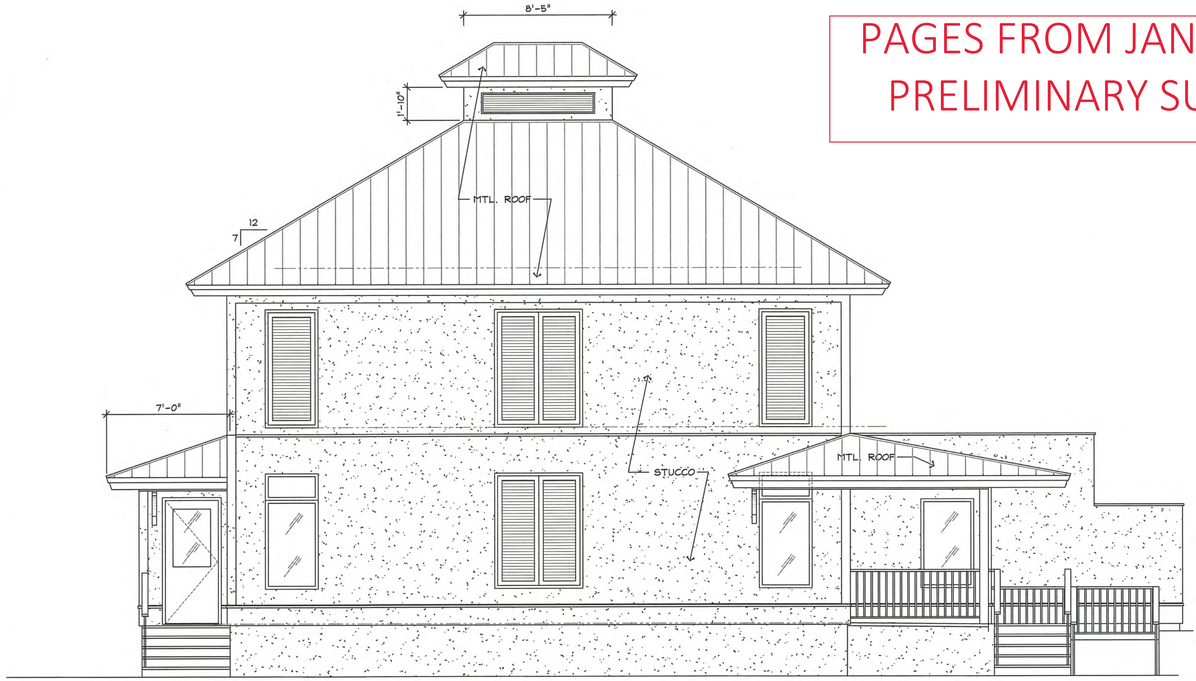
NEW BUILDINGS FOR:
AAA STORAGE WAREHOUSE FACILITY
LADY'S ISLAND
BEAUFORT COUNTY, SC

DATE: 12-14-20 | SCALE: AS NOTED | DRAWN BY: DB CHECK'D BY: MG | PROJECT NO: 2014

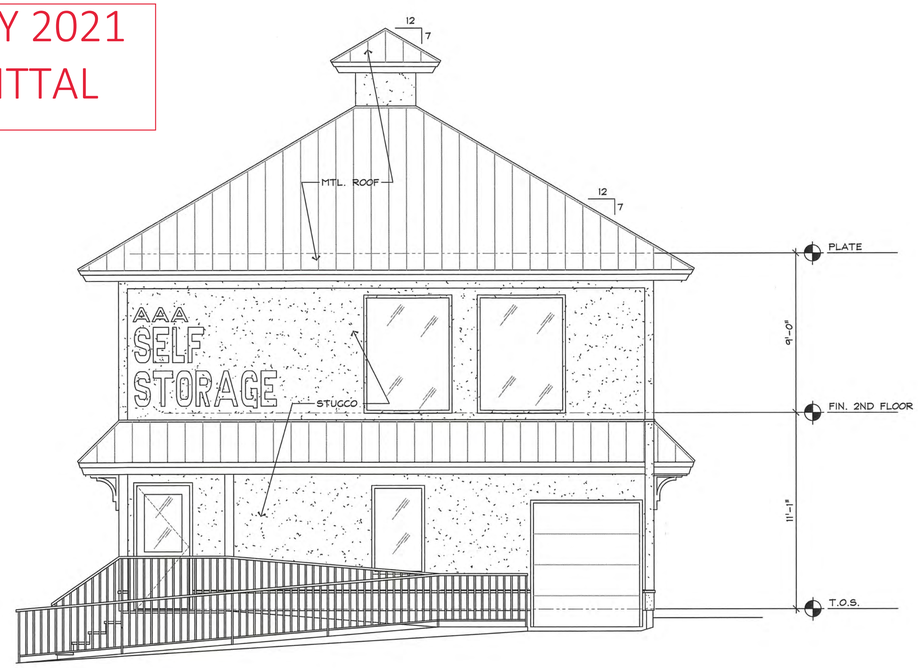
ARCHITECTURAL

3

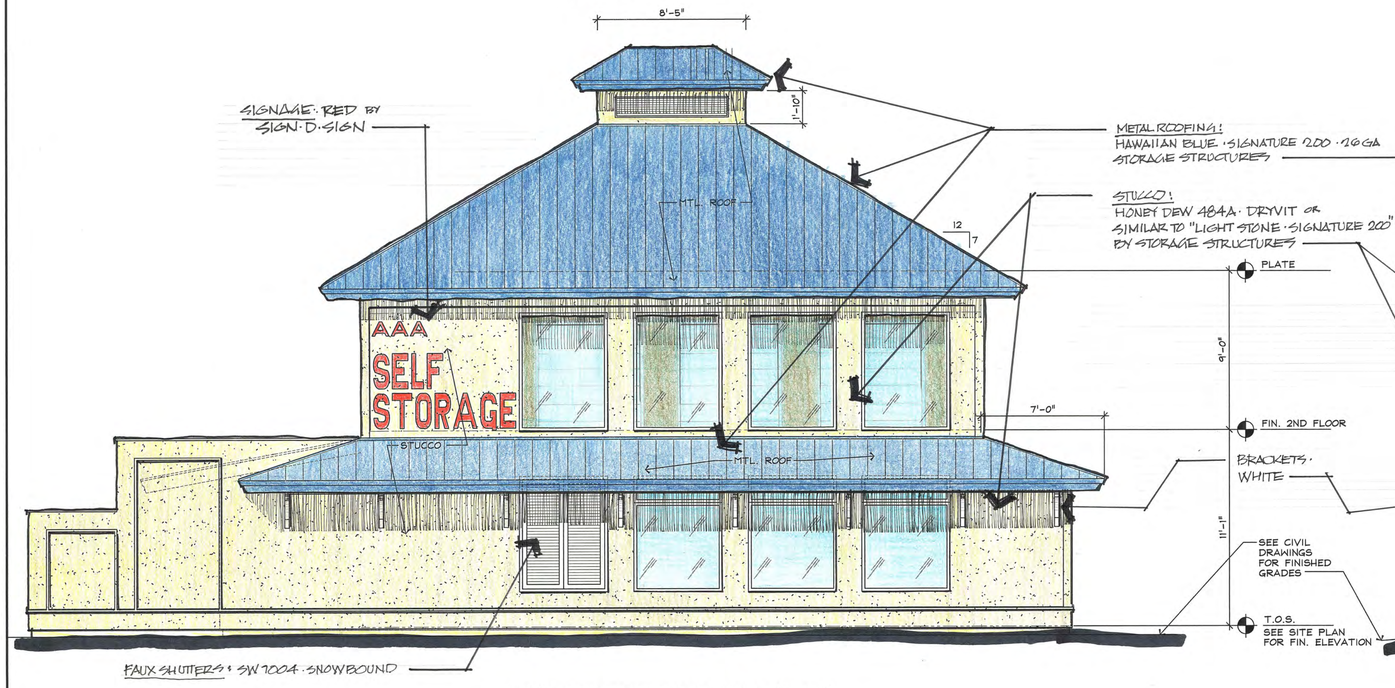
PAGES FROM JANUARY 2021
PRELIMINARY SUBMITTAL



PARKING LOT ELEVATION
SCALE 1/4"=1'-0"



SOUTH ELEVATION
SCALE 1/4"=1'-0"

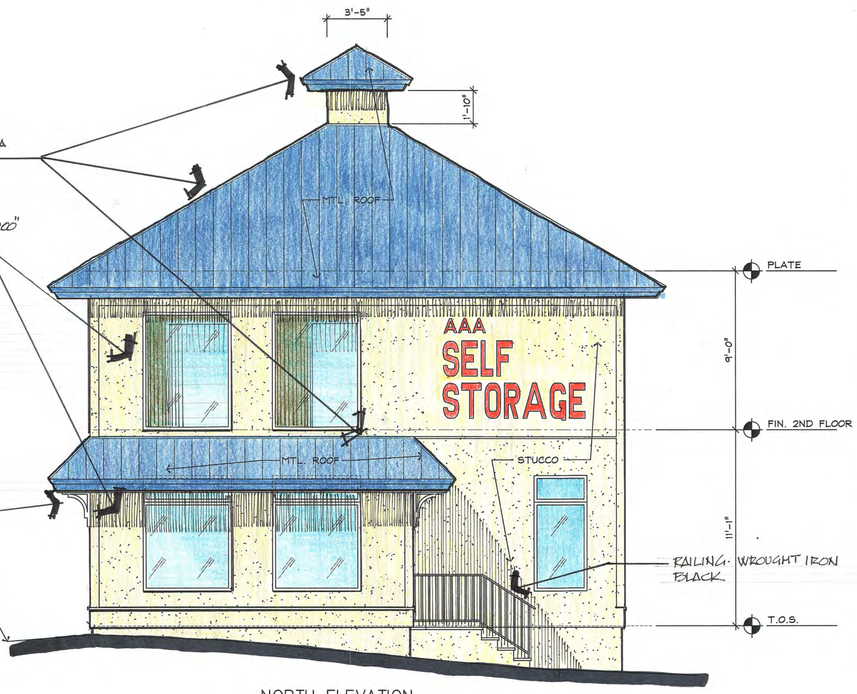


SAM'S POINT ROAD ELEVATION (EAST)
SCALE 1/4"=1'-0"

METAL ROOFING:
HAWAIIAN BLUE · SIGNATURE 200 · 26GA
STORAGE STRUCTURES

STUCCO:
HONEY DEW 484A · DRYVIT OR
SIMILAR TO "LIGHT STONE · SIGNATURE 200"
BY STORAGE STRUCTURES

BRACKETS:
WHITE



NORTH ELEVATION
SCALE 1/4"=1'-0"

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REVISIONS

MARK	DATE	DESCRIPTION

MICHAEL GRIFFITH
Architect
6045 Stratford Oaks Drive
Sebring, FL 33870
843-815-4282

SALES OFFICE - ELEVATIONS

NEW BUILDINGS FOR:
AAA STORAGE WAREHOUSE FACILITY
LADY'S ISLAND
BEAUFORT COUNTY, SC

DATE: 11-19-20
SCALE: AS NOTED
DRAWN BY: JMB
CHECK'D BY: MG
PROJECT NO: 2014

A5

APPLICANT PRESENTATION

15 SAMS POINT ROAD

DEVELOPMENT REVIEW PROCESS

DESIGN REVIEW BOARD APPLICATION

Community and Economic Development Department
1911 Boundary Street, Beaufort, South Carolina, 29902
p. (843) 525-7011 / f. (843) 986-5606
www.cityofbeaufort.org

☐ Staff Review
☑ Board Review

Application Fee:
see attached schedule

OFFICE USE ONLY: **Date Filed:** _____ **Application #:** _____ **Zoning District:** _____

Schedule: The Design Review Board (DRB) typically meets the 2nd Thursday of each month at 2pm. Upon receipt of an application, staff will review the submittal and then contact the applicant letting them know when the meeting will be. A complete schedule can be found at: https://www.cityofbeaufort.org/379/Design-Review-Board

Submittal Requirements: All forms and information shall be submitted digitally. In addition to a complete application form, applicants shall submit the required items according to the checklists on the subsequent page.

Review Request: ☐ Conceptual ☐ Preliminary ☑ Final

Pursuant to Section 6-29-1145 of the South Carolina Code of Laws, is this tract or parcel restricted by any recorded covenant that is contrary to, conflicts with, or prohibits the activity described in this application? ☐ **Yes** ☑ **No**

Applicant, Property, and Project Information

Applicant Name: J. MICHAEL BROCK- M. BROCK DESIGNS LLC

Applicant Address: PO BOX 358
Port Royal, SC 29935

Applicant E-mail: mbrock@mbrockdesigns.com Applicant Phone Number: 843.540.6407

Applicant Title: ☐ Homeowner ☐ Tenant ☑ Architect ☐ Engineer ☐ Developer

Owner (if other than the Applicant): LADY'S ISALND STORAGE, LLC

Owner Address: PO BOX 448, PORT ROYAL, SC 29935 danlynch100@gmail.com/ patterson@islc.net

Project Name: AAA STORAGE CITY 843.812.6473/ 843.379.3077

Property Address: 15 SAMS POINT ROAD/ 11 WILLIAMS STREET, BEAUFORT, SC.

Property Identification Number *(Tax Map & Parcel Number):* R120 015 000 0526 0000/ R120 015 000 0523 000 & A Portion Of R120 015 000 0525 000

Date Submitted: 02/18/2021 A portion of R123 014 000 0137 0000/ R120 015 000 0116

DEVELOPMENT REVIEW PROCESS
DESIGN REVIEW BOARD APPLICATION
Community and Economic Development Department
1911 Boundary Street, Beaufort, South Carolina, 29902
p. (843) 525-7011 / f. (843) 986-5606
www.cityofbeaufort.org

Required Project Information

Project Name: AAA Storage City

Property Size in Acres: 5.55 acres Proposed Building Use: Storage facility

Building Square Footage (if multiple buildings, please list each one and their square footage by floor):
1,236 SF Office Building, 105,508 SF Storage Facility Total

# of Parking Spaces Required: 7 # of Parking Spaces Provided: 7

Is this project a redevelopment project: Y (N)

Are there existing buildings on the site? Y (N) if yes, will they remain? Y N

Provide a brief Project Narrative and outline any specific questions you would like addressed.
See Narrative

Applicant's Signature: John M. Brock Date: 02182021

Owner's Signature: Merritt Patterson Date: 02182021

(The owner's signature is required if the applicant is not the owner.)

CONTACT INFORMATION:

Attention: Julie A. Bachety, Administrative Assistant II

City of Beaufort Department of Planning & Development Services

1911 Boundary Street, Beaufort, South Carolina 29902

E-Mail: jbachety@cityofbeaufort.org: | Phone: (843) 525-7011 | Fax: (843) 986-5606

PROJECT NARRATIVE
CITY OF BEAUFORT – TECHNICAL REVIEW COMMITTEE (TRC)

Project:	**AAA Residential Storage Facility**
Owner:	Ladys Island Storage, LLC
Landscape Architect:	M. Brock Designs, LLC
Architect:	Michael Griffith
Engineer:	Greg Baisch, PE, Ward Edwards, Inc.
Date:	February 18, 2021

Project Description

The development consists of two parcels located on Lady's Island near Tabby Oaks at 15 Sams Point Road and 11 Williams Street in Beaufort, South Carolina. The properties are identified by BC Tax Map numbers R123 014 000 0137 000 and R200 015 000 0116 0000. The property immediately adjacent to Sam's Point Road will be developed with a ±1,236 SF office building to serve the Residential Storage facility on the rear parcel. The storage facility will consist of multiple buildings totaling ±89,600 SF, parking, covered RV storage, landscaping, and associated infrastructure.

Zoning

The parcels are both zoned T5-UC, which allows for residential "Self-Storage" by-right with conditions under the "Light Industrial Services" Use. The storage facility conditions per the City of Beaufort Community Development Code (CDC) **Section 3.8.2.A** are shown below:

> *Specific to Self-Service Storage: a. Screening: Self-service storage must be screened from public rights-of-way with fencing (per 3.6.2.D.3.F) and/or vegetation or be located behind another building that would provide appropriate screening. Where fencing and/or vegetation is used, it must meet the requirements for parking lot screening, as set forth in 5.7.8.A. An office component of the building may be used to screen the storage bays from the right-of-way.*
> Comment: Site will comply with screening by utilizing the rear of the proposed storage buildings which will exceed 8-ft in height with additional landscaping as appropriate.
>
> *Specific to T5- UC and RMX: Such use shall be setback a minimum of 300' feet from the public right-of-way, with the following exceptions: i. Multi-Story: Multi-story structures, with two or more habitable floors, may comply with the standard setbacks if the ground floor contains an office and/or retail component and meets all of the design standards in Section 4.6. ii. Liner Building: If a Liner Building exists between the storage units and the right-of-way, these uses may be located less than 300 from the public right-of-way. See Section 4.5.9 for more requirements and standards for Liner Buildings.*
> Comment: Site will comply with setbacks by having office only on the parcel adjacent to the public right-of-way. All storage will be contained in rear parcel not immediately adjacent to right-of-way. The nearest rear site building is less than 300-ft away from right-of-way. However the parcel is not immediately adjacent to the right-of-way and existing multifamily and commercial buildings along the highway will act similar to liner buildings.

Building Appearance: i. Garage doors serving individual storage units shall be perpendicular to a public or private street, so as to not be visible from adjacent streets. ii. Perimeter or exterior walls visible from a public street or detached residential dwelling shall not include metal as a primary material. e. Fencing i. Fences shall be between 6 and 8 feet tall. ii. Wooden entry gates without sufficient structural support are prohibited.
Comment: Site will comply with these building appearance standards.

Operation a. No more than one security or caretaker quarters may be developed on the site. b. Except for RVs, including boats, all property stored on the site shall be contained entirely within enclosed buildings
Comment: Site will comply with these operation standards.

The buildings will meet applicable building CDC requirements in regard to setbacks, building placement, form, parking, etc. Note, the office building parcel is 100-ft in width and the proposed building will meet the T5-UC frontage build out 60% requirement by satisfying the CDC Section 2.5.1.B additional frontage build-out standards, utilizing a pedestrian plaza and building.

Additionally, the CDC indicates a 20-ft highway buffer along Sams Point per section 5.5.1.B. This buffer appears to be in conflict with the 0 to 15-ft building build to requirements of the T5-UC section 2.2.1 Transect standards. Additionally, the buffer table indicates "The administrator may waive or alter these requirements based on the design of the building and how it addresses the street". We are requesting the buffer be reduced to match the building setback from the property line as it addresses the street. The proposed building will be placed approximately ±24-ft from the existing sidewalk along the street and ±9-ft from the property line, which is similar to adjacent buildings in the T5-UC.

Stormwater Management & Erosion Control

The project will treat storm-water runoff onsite. The Office and storage "parcels" will be handled separately. All on-site runoff will be collected in a series of grate inlets and conveyed into a system of underground detention structures with infiltration capacity and storm water treatment ponds. The underground detention and stormwater ponds will provide for first flush storage, sediment trapping, and nutrient removal standards compliant with applicable local, state and federal requirements. Note, the front parcel contains and existing "drainage easement" area. This easement requires the property to continue to handle the existing natural storm water conveyance. These easement requirements will be handled accordingly. Erosion control practices for the site will included silt fencing, a construction entrance, inlet protection, and temporary/permanent seeding.

Wetland Impacts

There are no wetlands on the property and therefore, no impacts associated with the proposed development.

Water and Wastewater

Existing water and sewer mains, owned and maintained by BJWSA are available for the subject property. Water service to the site will tie into an existing water and sewer services located along Sam's Point Road.

Access & Parking

Access to the properties will be from the existing easements at the property connecting to Sam's Point Road. Parking will be handled onsite in compliance with the applicable CDC requirements.

Fire Safety

Access to the properties will be provided to adequately allow for Fire Safety vehicles. The storage unit drive isles vary from 24-ft to 4-ft in width. The maximum building area without any fire walls will be 12,000-SF. An additional "fire" access lane will be provided at the rear of the storage facility. There are existing hydrants adjacent to the property. Fire flow will be analyzed and additional hydrants added to comply with Fire Safety review requirements.

Landscape

The landscape material will be primarily native material requiring little irrigation after establishment. The buffers are the primary landscape areas offering the required buffering per Sect. 5.5.1 of the code. The main office will have complimentary foundation plantings and required buffer planting material.

Lighting

The lighting for this project is limited to the wall mounted fixtures provided in the cut sheet. The lights will be mounted facing the interior of the site and spaced accordingly to provide safe amount of lighting within the complex. There will not be any lighting over 1 candela at property lines. See MEP Plans and lighting narrative.

Architecture

The **main office building** fronting Sams Point Road will be a two-story wood framed building offer low country vernacular architecture. The standing seam metal roof and stucco finish siding will be main materials for the building. Sidewalks and a paver patio area will offer access to the building.
The stucco color will be Sherwin Williams color Late (SW6108). Trim will be Sherwin Willimas Ibis White (SW7000) The metal roof will be Slate Blue.
The **storage facility** will be fully enclosed metal buildings with metal siding and with access gates at the main entrance and an emergency access on the norther property line. See included material for building examples. The mechanical locations have been determined per the MEP Plans. The Units will be located both on the roofs and on the ground as indicated on the MEP plans. The unites located outside of the facility (along the rear wall of the units) will have the screening as depicted in this narrative.

The colors for the Storage buildings will be Light Stone siding with Hawaiian Blue Trim and Galvalume metal roof.
The **RV storage building** will be a dual slope canopy as depicted with open sides. See plans for specifications. Colors will match the storage buildings.

Office Building Colors:





HVAC SCREEN:



COLOR CHART

COMMERCIAL/INDUSTRIAL

Final color selection should be made from actual color chips.

- For the most current information available, visit our website at www.mbci.com.
- See the product selection chart for gauge and finish availability.
- All products are available in smooth or embossed finish.
- Trim is available in all colors.
- Review the sample warranty for complete performance attributes and terms and conditions.

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STANDARD COLORS
26- AND 24-GAUGE MATERIAL

Siliconized Polyester

Polar White is a Straight Polyester.

* Also available in 29-gauge

** Minimum quantities and/or extended lead times required for 24-gauge. Please inquire.


HAWAIIAN BLUE** *


CRIMSON RED** *


FERN GREEN** *


BURNISHED SLATE** *


ASH GRAY *


SADDLE TAN *


DESERT SAND *


KOKO BROWN *


CHARCOAL GRAY** *


COBALT BLUE** *


RUSTIC RED *


LIGHT STONE *

POLAR WHITE* *

SOLAR WHITE** *

770-456-1602
fax: 770-456-1662
toll free: 877-456-1602

STORAGE STRUCTURES

3807 Carrollton Villa Rica Hwy.
Villa Rica, GA 30180

ENERGY STAR PARTNER

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SITE DEVELOPMENT PLANS
FOR
AAA STORAGE CITY
CITY OF BEAUFORT, SOUTH CAROLINA

GENERAL NOTES:
1. BOUNDARY INFORMATION PROVIDED BY TREE & TOPOGRAPHICAL SURVEY, DATED 02/17/2020, BY GASQUE & ASSOCIATES INC.
2. TOPOGRAPHIC DATA PROVIDED BY GASQUE & ASSOCIATES INC., DATED 02/17/2020.
3. APPROXIMATE LOCATION OF CERTAIN EXISTING UNDERGROUND UTILITY LINES AND STRUCTURES ARE SHOWN ON THE PLANS FOR INFORMATION ONLY ADDITIONAL UNDERGROUND LINES OR STRUCTURES MAY EXIST THAT ARE NOT SHOWN. CALL SOUTH CAROLINA 811 AT 811 OR 1-888-721-7877 BETWEEN THE HOURS OF 7:00 AM AND 7:00 PM MONDAY THRU FRIDAY AT LEAST THREE WORKING DAYS BEFORE COMMENCING CONSTRUCTION. REQUEST UNDERGROUND UTILITIES TO BE LOCATED AND MARKED WITHIN AND NEAR THE CONSTRUCTION SITE.
4. COMPLY WITH "SOUTH CAROLINA UNDERGROUND FACILITY DAMAGE PREVENTION ACT (EFFECTIVE JUNE 7, 2012). NOTIFICATION OF INTENT TO EXCAVATE MAY BE GIVEN BY CALLING THE TOLL FREE NUMBER: 1-800-922-0983.
5. PROTECT BENCH MARKS AND PROPERTY MONUMENTS FROM DAMAGE DURING CONSTRUCTION OPERATIONS. REPLACE ANY BENCH MARKS OR MONUMENTS DAMAGED OR DESTROYED AS A RESULT OF CONTRACTOR'S OPERATIONS, AT NO COST TO THE OWNER, BY A LICENSED SURVEYOR IN THE STATE OF SOUTH CAROLINA.
6. OFF-STREET PARKING FOR THE CONTRACTOR'S EMPLOYEES AND AUTHORIZED VISITORS TO THE SITE MUST BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION.
7. THE CONTRACTOR IS RESPONSIBLE FOR ADHERING TO WEIGHT LIMITS PRESCRIBED FOR ALL PUBLIC ROADS WHEN HAULING EQUIPMENT AND MATERIALS TO AND FROM THE PROJECT SITE. DAMAGES TO EXISTING PAVEMENT DUE TO THE CONTRACTOR'S CONSTRUCTION OPERATIONS OR IMPROPER TRANSPORTATION OF MATERIALS AND EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
8. AT LEAST ONE DRIVING LANE ON PUBLIC ROADS SHALL REMAIN OPEN TO TRAFFIC AT ALL TIMES. TRAFFIC LANES WILL ONLY BE CLOSED WITH THE EXPRESS WRITTEN CONSENT OF THE AGENCY HAVING JURISDICTION OVER THE ROADWAY. NOTIFY AGENCY HAVING JURISDICTION AT LEAST 5 DAYS BEFORE CLOSING ANY DRIVING LANES TO TRAFFIC. PROVIDE TRAFFIC CONTROL DEVICES, SIGNS AND FLAGMEN AS REQUIRED TO ENSURE PUBLIC SAFETY.
9. CONTRACTOR SHALL COORDINATE DEMOLITION, CLEARING AND CONSTRUCTION OF IMPROVEMENTS TO MINIMIZE INTERFERENCE WITH VEHICULAR AND PEDESTRIAN TRAFFIC AND WITH OPERATIONS OF EXISTING FACILITIES.

WATER AND SEWER LINE CONSTRUCTION:
1. ALL WATER AND SEWER LINE CONSTRUCTION SHALL CONFORM TO APPLICABLE STATE AND BEAUFORT JASPER WATER SEWER AUTHORITY (BJWSA) REQUIREMENTS, STANDARDS AND SPECIFICATIONS.
2. BJWSA WILL BE RESPONSIBLE FOR INSPECTION AND APPROVAL OF ALL WATER AND SEWER SYSTEM CONSTRUCTION AND FOR ACCEPTANCE FOR OPERATION AND MAINTENANCE.
3. ALL UTILITIES SHOWN ARE APPROXIMATE LOCATIONS. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION OF ALL UTILITY OWNERS AND FOR FIELD VERIFICATION OF BOTH HORIZONTAL AND VERTICAL LOCATIONS PRIOR TO COMMENCING CONSTRUCTION. ANY DAMAGES TO EXISTING UTILITIES DUE TO THIS CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. NOTIFY THE PROJECT ENGINEER, IF CONFLICTS WITH EXISTING STRUCTURES REQUIRE THAT PROPOSED UTILITIES BE RELOCATED.
5. THE CONTRACTOR MUST NOTIFY BJWSA FORTY-EIGHT (48) HOURS PRIOR TO ANY CONSTRUCTION, INSPECTION OR TESTING OF THE WATER DISTRIBUTION SYSTEM.
6. PIPE, FITTINGS, VALVES AND APPURTENANCES FOR WATER AND SEWER LINES SHALL ALL BE IN ACCORDANCE WITH THE REQUIREMENTS CONTAINED IN THE BJWSA TECHNICAL SPECIFICATIONS.
7. INSTALLATION OF WATER AND SEWER LINES AND APPURTENANCES SHALL BE IN ACCORDANCE WITH THE BJWSA STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS.
8. CONTRACTOR SHALL INSTALL MECHANICAL RESTRAINTS ON ALL BENDS, PLUGS AND TEES, 2" OR LARGER, ON WATERLINES AND SANITARY SEWER FORCE MAINS.
9. ALL WATER MAINS SHALL BE STERILIZED AND PRESSURE TESTED IN ACCORDANCE WITH BJWSA SPECIFICATIONS.
10. SEPARATION OF WATER MAINS AND SEWERS:
    A. PARALLEL INSTALLATION: UNLESS OTHERWISE SPECIFICALLY SHOWN IN A SPECIAL DETAIL ON THE PLANS, INSTALL WATER MAINS AT LEAST 10-FT. HORIZONTALLY FROM ANY EXISTING OR PROPOSED SANITARY SEWER OR SANITARY SEWER FORCE MAIN, THE DISTANCE BEING MEASURED IN A HORIZONTAL PLANE BETWEEN THE OUTSIDE SURFACES OF THE PIPES.
    B. CROSSINGS: UNLESS OTHERWISE SPECIFICALLY SHOWN IN A SPECIAL DETAIL ON THE PLANS, INSTALL WATER LINES CROSSING SANITARY SEWERS OR SANITARY SEWER FORCE MAINS TO PROVIDE A MINIMUM VERTICAL SEPARATION OF 18-INCHES BETWEEN THE OUTSIDE SURFACES OF THE PIPES. THIS SHALL BE THE CASE WHETHER THE WATER LINE IS ABOVE OR BELOW THE SANITARY SEWER LINE. WHENEVER POSSIBLE LOCATE THE WATER LINE ABOVE THE SEWER LINE. WHERE A NEW WATER LINE CROSSES A NEW SEWER LINE, PLACE A FULL LENGTH OF DUCTILE IRON PIPE FOR WATER LINE AT THE CROSSING WITH PIPE POSITIONED SO THAT THE JOINTS ARE AS FAR AS POSSIBLE FROM THE POINT OF CROSSING. WHERE A NEW WATER LINE CROSSES AN EXISTING SEWER LINE, PLACE ONE FULL LENGTH OF DUCTILE IRON PIPE WATER LINE SO THAT THE JOINTS ARE AS FAR FROM THE POINT OF CROSSING AS POSSIBLE.
11. THE CONTRACTOR SHALL CUT AND PATCH EXISTING PAVEMENT AS REQUIRED FOR THE INSTALLATION OF UTILITY LINES.
12. SANITARY MANHOLE RIM GRADES SHOWN ARE APPROXIMATE. ADJUST RIM ELEVATIONS TO BE FLUSH WITH FINISHED GRADE.
13. THE CONTRACTOR UNDER THIS CONTRACT SHALL NOT MAKE ANY CONNECTIONS TO THE EXISTING WATER OR SANITARY SEWER SYSTEMS UNLESS EXPRESSLY AUTHORIZED TO DO SO BY THE BJWSA. ALL WATER AND SEWER IMPROVEMENTS UNDER THIS CONTRACT MUST BE CONSTRUCTED COMPLETE, TESTED, INSPECTED AND APPROVED BY THE BJWSA BEFORE ANY AUTHORIZATION TO CONNECT WILL BE GIVEN. COORDINATION OF TESTING, INSPECTION AND CONNECTIONS WITH THE BJWSA IS THE RESPONSIBILITY OF THE CONTRACTOR UNDER THIS CONTRACT.
14. ALL WATER MAINS SHALL BE INSTALLED WITH THIRTY-SIX INCHES (36") MINIMUM COVER (FROM FINISHED GRADE). MAXIMUM DEPTH SHALL BE FIVE FEET (5'). WHERE WATER MAINS MAY CONFLICT WITH OTHER UTILITIES, THE WATER MAIN CROSSING SHALL BE CONSTRUCTED WITH DUCTILE IRON PIPE, MECHANICAL JOINT 45-DEG. BENDS AND MECHANICAL RESTRAINTS.

WORK ON SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY:
1. CONTRACTOR SHALL REVIEW AND COMPLY WITH ALL CONDITIONS AND SPECIAL PROVISIONS CONTAINED IN THE SCDOT ENCROACHMENT PERMIT(S) ISSUED FOR THIS PROJECT.
2. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING CONSTRUCTION NOTIFICATION FORM (48 HOUR MINIMUM) AND COORDINATION OF ALL WORK WITHIN SCDOT RIGHTS-OF-WAY WITH THE LOCAL AND/OR DISTRICT SCDOT ENGINEERING REPRESENTATIVE.
3. CONTRACTOR IS RESPONSIBLE FOR PREPARING AND SUBMITTING A TRAFFIC CONTROL PLAN TO SCDOT FOR APPROVAL MINIMUM 48 HOURS PRIOR TO CONDUCTING WORK IN THE RIGHT-OF-WAY. ALL TRAFFIC CONTROL PLANS SHALL CONFORM TO CURRENT MUTCD AND CURRENT SCDOT GUIDELINES AND SPECIFICATIONS.
4. ALL SIGNAGE, PAVEMENT MARKINGS, AND MARKERS SHALL CONFORM TO CURRENT MUTCD GUIDELINES AND CURRENT SCDOT STANDARD SPECIFICATIONS AND DRAWINGS.
5. ALL PAVING AND DRAINAGE CONSTRUCTION SHALL CONFORM TO CURRENT SCDOT STANDARD SPECIFICATIONS AND DRAWNGS.
6. ALL PAVEMENT MARKINGS IN SCDOT RIGHT-OF-WAY SHALL BE THERMOPLASTIC AND CONFORM TO CURRENT MUTCD GUIDELINES AND CURRENT SCDOT STANDARD SPECIFICATIONS AND DRAWINGS.
7. REMOVAL OF PAVEMENT MARKINGS SHALL CONFORM TO CURRENT SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION SECTION 609.4.1.2.

TREE PROTECTION-BEAUFORT COUNTY
1. ALL SPECIMEN TREES PER ARTICLE 5.11.100 OF THE BEAUFORT COUNTY ZONING AND DEVELOPMENT STANDARDS ORDINANCE, MUST BE PRESERVED UNLESS SPECIFICALLY APPROVED FOR REMOVAL IN ACCORDANCE WITH THE BEAUFORT COUNTY ZONING AND DEVELOPMENT STANDARDS ORDINANCE AND INDICATED ON THE PLANS TO BE REMOVED.
2. PRIOR TO COMMENCING ANY CLEARING OR CONSTRUCTION OPERATIONS ON THE SITE, THE CONTRACTOR SHALL ERECT TREE PROTECTION BARRIERS AROUND EACH TREE OR GROUP OF TREES DESIGNATED FOR PRESERVATION IN ACCORDANCE WITH THE DETAILS ON THE PLANS AND THE REQUIREMENTS CONTAINED IN ARTICLE 5.11.100 OF THE BEAUFORT COUNTY ZONING AND DEVELOPMENT STANDARDS ORDINANCE.
3. A TREE PROTECTION ZONE SHALL BE ESTABLISHED IN ACCORDANCE WITH THE PROVISIONS CONTAINED IN ARTICLE 5.11.100, SECTION E OF THE BEAUFORT COUNTY ZONING AND DEVELOPMENT STANDARDS ORDINANCE FOR EACH EXISTING TREE DESIGNATED FOR PRESERVATION. THE MINIMUM TREE PROTECTION ZONE AS DEFINED IN THE ORDINANCE IS A CIRCULAR AREA CENTERED ON THE TREE AND HAVING A RADIUS OF ONE FOOT PER INCH dbh (DIAMETER AT BREAST HEIGHT). THE SIZE OR CONFIGURATION OF THE TREE PROTECTION ZONE MAY BE MODIFIED ONLY UPON APPROVAL BY THE DEVELOPMENT REVIEW TEAM.
4. THE AREA WITHIN THE TREE PROTECTION ZONE MUST REMAIN OPEN AND UNPAVED. NO CHANGE OF GRADE WILL BE ALLOWED WITHIN THE TREE PROTECTION ZONE EXCEPT FOR A 2-INCH CUT OR 2-INCH FILL OF TOPSOIL, SOD OR MULCH. ANY ACTIVITY WITHIN THE TREE PROTECTION ZONE IS SUBJECT TO APPROVAL BY THE ZONING AND DEVELOPMENT ADMINISTRATOR. THE FOLLOWING ACTIVITIES ARE PROHIBITED WITHIN THE TREE PROTECTION ZONE:
    A. PLACEMENT OR STORAGE OF ANY SOIL, DEBRIS, OILS, FUEL, PAINTS, BUILDING MATERIALS OR ANY OTHER MATERIALS.
    B. BURNING
    C. VEHICLE PARKING
    D. PAVING
    E. TRENCHING FOR UTILITIES
5. WHERE UTILITY LINES MUST PASS THRU THE TREE PROTECTION ZONE, THEY SHALL BE INSTALLED BY HORIZONTAL BORING BENEATH THE ROOTS OF THE TREE.
6. WHERE IT IS NECESSARY FOR MACHINERY AND EQUIPMENT TO PASS WITHIN THE TREE PROTECTION ZONE, APPROVAL MUST BE OBTAINED FROM THE ZONING AND DEVELOPMENT ADMINISTRATOR. SPECIAL MEASURES WILL BE REQUIRED TO PROTECT THE ROOTS FROM EXCESSIVE COMPACTION.
7. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL TREE REMOVAL PERMITS AND FOR COORDINATING ALL INSPECTIONS REQUIRED BY BEAUFORT COUNTY IN CONNECTION WITH TREE PRESERVATION AND REMOVAL ACTIVITIES. DURING CONSTRUCTION.

LADY'S ISLAND RESIDENTIAL STORAGE FACILITY
BJWSA PROJECT #: 2021-081

SITE GRADING AND DRAINAGE:
1. ALL UTILITIES SHOWN ARE APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING 72-HOUR NOTICE TO ALL RESPECTIVE UTILITY COMPANIES FOR FIELD VERIFICATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. ANY DAMAGES TO EXISTING UTILITIES DUE TO THIS CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. TEMPORARY CONTROL OF STORM WATER DRAINAGE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SEQUENCING AND CONSTRUCTION TECHNIQUES SHALL PREVENT OBSTRUCTION OF STORM SEWERS, PONDING IN TRAFFIC AREAS OR RISING OF WATER LEVELS WHICH WOULD ENTER ADJACENT BUILDINGS OR STRUCTURES.
3. FULL WIDTH OF STREET AND ROAD RIGHTS-OF-WAY MUST BE CLEARED AND GRADED AS SHOWN IN THE DETAILS ON THE DRAWINGS
4. SUBGRADE PREPARATION: TOP SOIL SHALL BE REMOVED FROM PAVED AREAS TO A MINIMUM DEPTH AS RECOMMENDED IN THE PROJECT'S GEOTECHNICAL REPORT. ALL EXCAVATION SHALL BE TO SUBGRADE LIMITS.
5. ALL UTILITY PIPE LINES, CONDUITS AND SLEEVES UNDER PAVED AREAS MUST BE IN PLACE PRIOR TO COMPLETION OF THE ROADWAY SUBGRADE COMPACTION.
6. FINISH GRADING SHALL INCLUDE THE PLACEMENT OF TOPSOIL OVER ALL UNPAVED AREAS NOT OCCUPIED BY BUILDINGS OR STRUCTURES AND FINE GRADING AROUND BUILDINGS, ADJACENT TO WALKS, CURBS, GUTTERS AND STRUCTURES TO ASSURE POSITIVE DRAINAGE.

SCDHEC/OCRM SEDIMENT AND EROSION CONTROL STANDARD NOTES (REVISED DEC-2012):
1. IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.
    A. WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
    B. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY, OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.
4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE SEDIMENT BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
7. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C REG. 72-300 ET SEQ. AND SCR100000.
8. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
9. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.
10. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
11. A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
12. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.
13. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
14. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.
15. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.).
16. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
    A. WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL.
    B. WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS.
    C. FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE.
    D. SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
17. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.
18. IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
19. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.

DRY UTILITY CONDUITS FOR ELECTRIC, TELEPHONE AND CABLE TV:
1. ALL DRY UTILITY CONDUIT ENDS SHALL BE CAPPED AND MARKED WITH A STEEL REBAR STAKE IMBEDDED ONE (1) FOOT BELOW GROUND SURFACE.
2. 48" MINIMUM BURY DEPTH FOR ALL ELECTRICAL CONDUITS.
3. MAINTAIN MINIMUM 12" VERTICAL CLEARANCE WHEN CROSSING WATER, SEWER, AND STORM DRAIN LINES.
4. MAINTAIN MINIMUM 18" HORIZONTAL CLEARANCE WHEN PARALLELING WATER, SEWER AND STORM DRAIN LINES.
5. EXTEND CONDUIT BEYOND PAVEMENT, CURB, AND SIDEWALKS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF THE INSTALLATION OF ALL UTILITY SERVICE CONNECTIONS. REFER TO APPROVED BUILDING PLANS FOR THE EXACT LOCATION OF ALL SERVICE CONNECTIONS. THE CONTRACTOR MUST INSTALL ALL CONDUITS, AS SHOWN ON THE PLANS OR AS REQUIRED BY RESPECTIVE UTILITY COMPANIES. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE STRICT COMPLIANCE WITH ALL APPLICABLE CODES AND REGULATIONS WITH REGARDS TO THE INSTALLATION OF UTILITIES AND CONDUIT.
7. LOCATIONS SHOWN ON THE PLANS FOR PROPOSED DRY UTILITY CONDUITS ARE APPROXIMATE ONLY. ALL DIMENSIONING AND STAKING SHOULD BE BASED ON ECONOMICAL AND PRACTICAL CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE RESPECTIVE UTILITY REPRESENTATIVES, PRIOR TO ANY CONDUIT INSTALLATION.
8. TRANSFORMER PADS SHALL BE LOCATED AS DIRECTED BY THE RESPECTIVE UTILITY REPRESENTATIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE CODE REQUIREMENTS.
9. NOTIFY THE ENGINEER IF CONFLICTS WITH EXISTING OR PROPOSED STRUCTURES REQUIRE PROPOSED UTILITIES BE RELOCATED.

SITE CLEARING AND DEMOLITION:
1. NO CLEARING SHALL OCCUR WITHIN DESIGNATED BUFFER ZONES, TREE PROTECTION ZONES, OUTSIDE OF THE PROPERTY LINES OR BEYOND THE CLEARING LIMITS UNLESS OTHERWISE SPECIFICALLY SHOWN ON THE PLANS.
2. ONLY THOSE TREES DESIGNATED ON THE DRAWINGS FOR REMOVAL ARE TO BE REMOVED AS PART OF THE SITE CLEARING OPERATIONS.
3. THE CONTRACTOR SHALL INSTALL A CONTINUOUS LINE OF FLAGGING OR FENCING ALONG THE LIMITS OF CLEARING PRIOR TO COMMENCING ANY CLEARING, DEMOLITION, OR CONSTRUCTION WORK ON THE PROJECT.
4. EXERCISE CAUTION DURING CLEARING OPERATIONS TO AVOID FELLING TREES INTO DESIGNATED TREE PROTECTION ZONES.
5. NO BURNING WILL BE ALLOWED WITHIN 50 FEET OF A TREE PROTECTION ZONE OR TREE DRIP LINE. CONTRACTOR SHALL COORDINATE ANY BURNING OPERATIONS WITH LOCAL JURISDICTION AND FIRE DEPARTMENTS.
6. SELECTIVE CLEARING AREAS SHALL BE CLEARED OF ALL BRUSH AND UNDERSTORY GROWTH.

UTILITY CONTACTS:

DOMINION ENERGY	800-251-7234	PO BOX 100255 COLUMBIA, SC 29202
BJWSA	843-987-9292	6 SNAKE ROAD, OKATIE, SC 29909
HARGRAY COMMUNICATIONS	843-815-1675	PO BOX 3380, BLUFFTON, SC 29910
TIME WARNER CABLE	843-913-7940	11 OFFICE PARK ROAD, HILTON HEAD, SC 29928
CENTURY LINK	843-525-0044	2127 BOUNDARY ST #16, BEAUFORT, SC 29902
SANTEE COOPER	843-761-8000	1 RIVERWOOD DRIVE, MONCKS CORNER, SC 29461

CONTRACTOR NOTE:
CONTRACTOR TO OBTAIN AND BECOME FAMILIAR WITH GEOTECHNICAL REPORT #G309 PREPARED BY F&ME CONSULTANTS, INC.

ALL WORK MUST CONFORM TO PROJECT TECHNICAL SPECIFICATIONS FOR LADY'S ISLAND RESIDENTIAL STORAGE FACILITY PREPARED BY WARD EDWARDS ENGINEERING. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A COPY OF THE TECHNICAL SPECIFICATIONS IF NOT PROVIDED WITH THE DRAWINGS.

811 Know what's below. Call 811 before you dig.

PROJECT INFORMATION
DEVELOPER:
LADYS ISLAND STORAGE, LLC
P.O. BOX 448
PORT ROYAL, SC 29935
DANLYNCH100@GMAIL.COM

PROPERTY OWNER:
TERRA DEVELOPMENT GROUP INC
2732 DEPOT RD
BEAUFORT SC 29907

TABBY OAKS HOMEOWNERS ASSOCIATION
PO BOX 1225
BEAUFORT SC 29907

SOURCE OF TITLE:
BEAUFORT COUNTY REGISTER OF DEEDS,
DEED BOOK 1033 PAGE 542
DEED BOOK 1050 PAGE 742

PROJECT STREET ADDRESS:
19 SAMS POINT ROAD

LATITUDE / LONGITUDE:
N 32° 24' 56"
W 80° 38' 53"

PROPERTY IDENTIFICATION NO.:
County I.D. #:R123 014 000 0137 0000
R120 015 000 0116 0000
R200 015 000 0526 0000
R200 015 000 0525 0000
R200 015 000 0523 0000

DEVELOPMENT PERMIT JURISDICTION:
CITY OF BEAUFORT

FLOOD ZONE:
"C"

PROPERTY ZONING:
T5 URBAN CORRIDOR (T5-UC)

SITE AREA:
TOTAL: 6.4 ACRES
DISTURBED: 6.8 ACRES

VERTICAL CONTROL DATUM:
NGVD29

BUILDING HEIGHT:
MAXIMUM: 5 STORIES
PROPOSED: 2 STORY

USE:
EXISTING: UNDEVELOPED
PROPOSED: COMMERCIAL
±90,836 SQ FT

REQUIRED BUFFERS:
SIDE: 5 FEET
REAR: 5 FEET
FRONT: 0 FEET

REQUIRED SETBACKS:
FRONT: 0-15 FEET
REAR: 5 FEET

SURFACE COVERAGE:
MAX IMPERVIOUS ALLOWED: 100 %
EXISTING IMPERVIOUS: 4,922 SQ. FT. (2 %)
PROPOSED IMPERVIOUS: 160,780 SQ. FT. (58 %)

PARKING SUMMARY:
PARKING PROVIDED:
TOTAL = 5 SPACES
ACCESSIBLE PARKING PROVIDED: 2 SPACES

DESIGN TEAM
LAND SURVEYOR:
GASQUE & ASSOCIATES INC.
843.522.1798

GEOTECHNICAL ENGINEER:
F&ME CONSULTANTS, INC.
843.524.0476

ARCHITECT:
STORAGE STRUCTURES
770.456.1602

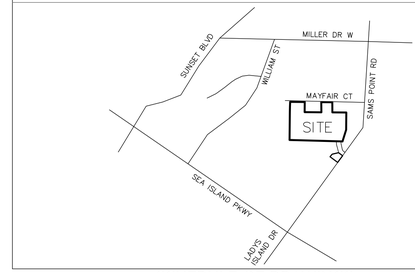
MICHAEL GRIFFITH, FARA AIA
843.815.4282

STRUCTURAL ENGINEER:
ANDY RICHARDSON, PE / 29E6
843.441.9828

LANDSCAPE ARCHITECT:
M. BROCK DESIGNS, LLC
843.540.6407

PERMITS

PERMIT	PERMIT #	ISSUED	EXPIRES
BJWSA			
FIRE MARSHAL			
SCDHEC/MS4 STORMWATER			
SCDHEC WATER			
SCDHEC WASTEWATER			
SCDOT ENCROACHMENT UTILITY			
SCDOT ENCROACHMENT DRIVEWAY			
MUNICIPALITY DEVELOPMENT			
USACE DETERMINATION			

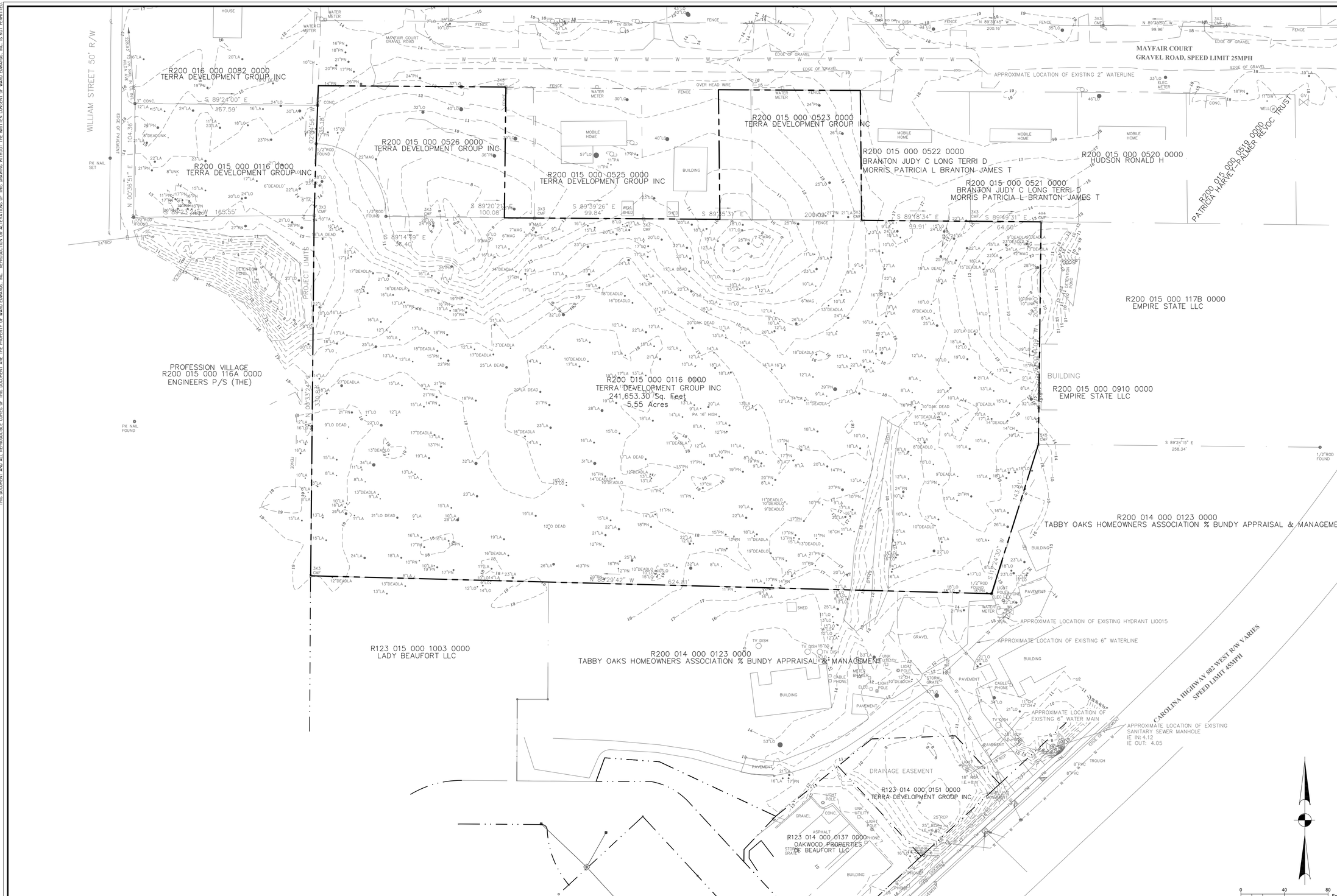
VICINITY MAP (NOT TO SCALE)


SCHEDULE OF DRAWINGS

SHEET NO.	DESCRIPTION
C001	COVER SHEET & CONSTRUCTION NOTES
C101	EXISTING CONDITIONS PLANS
C201	INITIAL EROSION CONTROL PLANS AND DETAILS
C301	CLEARING & DEMOLITION PLANS AND DETAILS
C401	SITE LAYOUT PLANS
C501	GRADING PLANS AND DETAILS
C601	DRAINAGE PLANS AND DETAILS
C701	UTILITY PLANS, PROFILES AND DETAILS
C801	INTERMEDIATE & FINAL EROSION CONTROL PLANS AND DETAILS
C901	PAVING PLANS, ROAD PROFILES AND DETAILS

RELEASE SCHEDULE

RELEASE NO.	DESCRIPTION	DATE
A.	RELEASED FOR INITIAL SITE PERMITTING	12-02-2020
B.	RELEASED FOR PERMITTING (CZC/OCRM)	12-15-2020
C.	RELEASED FOR PERMITTING (BJWSA)	01-25-2021
D.	RELEASED FOR PERMITTING (SCDOT)	02-02-2021
E.	RELEASED FOR PERMITTING (BJWSA)	02-12-2021
F.	RELEASED FOR PERMITTING (SCDOT)	02-17-2021
G.	RELEASED FOR PERMITTING (SCDOT UTILITY)	02-26-2021
H.	RELEASED FOR PERMITTING (BJWSA)	03-11-2021
I.	RELEASED FOR P



NOT FOR CONSTRUCTION

NO.	DESCRIPTION	DATE
7		
6		
5		
4		
3		
2		
1		

PLAN REVISIONS

Ward Edwards
ENGINEERING
P.O. BOX 381, BLUFFTON, SOUTH CAROLINA 29910
PH (843) 837-5250 / FAX (843) 837-2558
WWW.WARDEDWARDS.COM

AAA STORAGE CITY
BEAUFORT, SOUTH CAROLINA

LADYS ISLAND STORAGE, LLC
BEAUFORT, SOUTH CAROLINA

EXISTING CONDITIONS PLAN

VERTICAL DATUM:
NGVD29

PROJECT #:	190309
DATE:	03/11/21
DESIGNED BY:	JCH
CHECKED BY:	CPB

SHEET
C101

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LIMITS OF DISTURBANCE:	NPDES

EROSION PREVENTION

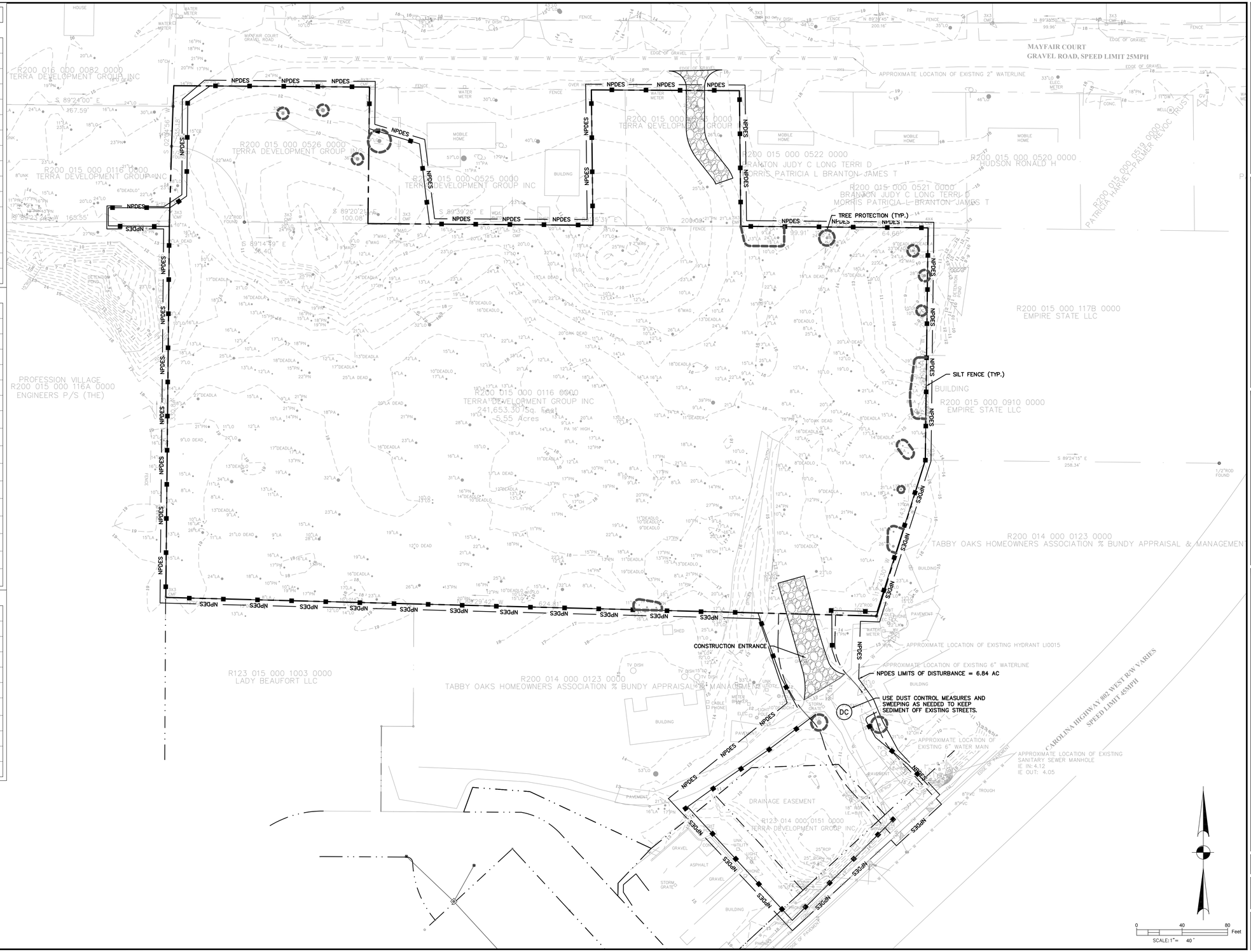
LAND GRADING:	LG OR
SURFACE ROUGHENING:	
TOPSOILING:	
TEMPORARY SEEDING:	TS
MULCHING:	M
ECB OR TRM:	
FGM:	FGM
BFM:	BFM
PERMANENT SEEDING:	PS
SODDING:	SO
RIPRAP:	
OUTLET PROTECTION:	RIPRAP ECB or TRM
DUST CONTROL:	DC
POLYACRYLAMIDE (PAM):	PAM

SEDIMENT CONTROL

SEDIMENT BASIN:	
TEMPORARY SEDIMENT TRAP:	
ROCK SEDIMENT DIKE:	
ROCK CHECK DAM:	OR
SEDIMENT TUBE:	
SILT FENCE:	
REINFORCED SILT FENCE:	
TYPE A–FABRIC INLET PROTECTION:	A
TYPE A–SEDIMENT TUBE INLET PROTECTION:	A
TYPE B – WIRE MESH AND STONE DROP INLET PROTECTION:	B
TYPE C – BLOCK AND GRAVEL INLET PROTECTION:	C
TYPE D – RIGID INLET FILTERS:	D
TYPE E – SURFACE COURSE CURB INLET FILTER:	E
TYPE F – INLET TUBE:	F
TYPE FC – FILTER BAG CURB INLET PROTECTION:	FC
TYPE FB – FILTER BAG CURB INLET PROTECTION:	FC
CONCRETE WASHOUT	CWS

RUNOFF CONVEYANCE MEASURES

VEGETATED CHANNELS:	
RIPRAP–LINED CHANNELS:	
ECB OR TRM–LINED CHANNELS:	
PAVED CHANNELS:	PC PC PC
PIPE SLOPE DRAINS:	
TEMPORARY STREAM CROSSING:	
TEMPORARY DIVERSION DITCH OR SWALE:	TD TD
PERMANENT DIVERSION DITCH:	PD PD
DIVERSION DIKE OR BERM:	DD DB
LEVEL SPREADER:	
SUBSURFACE DRAIN:	SSD SSD



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NO.	DESCRIPTION	DATE
1	PLAN REVISIONS	
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P.O. BOX 381, BLUFFTON, SOUTH CAROLINA 29910
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WWW.WARDEDWARDS.COM

AAA STORAGE CITY

BEAUFORT, SOUTH CAROLINA

LADYS ISLAND STORAGE, LLC
BEAUFORT, SOUTH CAROLINA

INITIAL EROSION CONTROL PLAN

VERTICAL DATUM: NGVD29

PROJECT #:	190309
DATE:	03/11/21
DESIGNED BY:	JCH
CHECKED BY:	CPB

SHEET
C201

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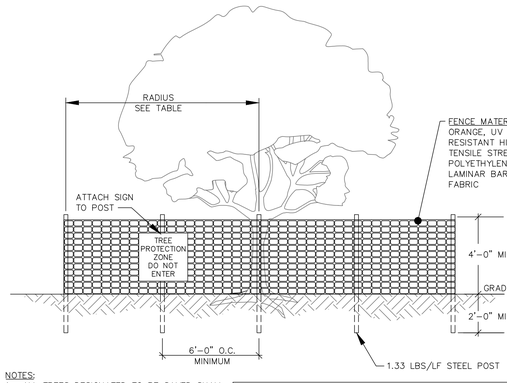


NOTES:
1. ALL TREES DESIGNATED TO BE SAVED SHALL BE PROTECTED BY FENCING.
2. INSTALL TREE PROTECTION FENCE TO RADIUS INDICATED IN TABLE UNLESS OTHERWISE INDICATED ON PLANS.
3. WARNING SIGNS TO BE MADE OF DURABLE WATERPROOF MATERIAL.
4. ALL WARNING SIGN LETTERS TO BE AT LEAST 3 INCHES HIGH, CLEARLY LEGIBLE AND SPACED A MINIMUM OF ONE EVERY 40 FT. FOR PROTECTION AREAS LESS THAN 40 FT IN PERIMETER, PROVIDE NO LESS THAN ONE SIGN PER SIDE.
5. THE SIZE OF EACH WARNING SIGN MUST BE A MINIMUM OF 2' x 2' AND BE VISIBLE FROM BOTH SIDES OF THE FENCE.
6. ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC.
7. THERE SHALL BE NO STORAGE OF MATERIAL WITHIN THE BOUNDARIES OF THE TREE PROTECTION FENCING.
8. TREE PROTECTION FENCING SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. FENCING MUST REMAIN UPRIGHT AND SLACK FREE.

TABLE – RADIUS OF TREE PROTECTION ZONE (TPZ)

JURISDICTION	RADIUS OF CIRCULAR TPZ
BEAUFORT COUNTY BEAUFORT CO. DEV. CODE 5.11.100	1 FOOT PER INCH OF TRUNK DBH
TOWN OF BLUFFTON UDO 5.3.3	1.5 FEET PER INCH OF TRUNK DBH OR 10 FEET WHICHEVER IS GREATER
TOWN OF HILTON HEAD LMO 16-6-104, J-3A	FENCING AT DRIP LINE FOR ALL TREES TO BE RETAINED
CITY OF BEAUFORT BEAUFORT CODE 5.3.3	0.5 FOOT PER INCH OF TRUNK DBH
JASPER COUNTY ZONING ORD. ART. 13.5	FENCING AT DRIP LINE FOR ALL TREES TO BE RETAINED
TOWN OF PORT ROYAL PORT ROYAL CODE 5.7.70	1.5 FEET PER INCH OF TRUNK DBH OR 5 FEET WHICHEVER IS GREATER
CITY OF HARDEEVILLE MZ&DO 4.8, F-3	FENCING AT DRIP LINE FOR ALL TREES TO BE RETAINED

DBH = TRUNK DIAMETER AT BREAST HEIGHT

TREE PROTECTION FENCE

DETAIL #02915-008

ADHESIVE	WATER DILUTION	NOZZLE TYPE	APPLICATION (GAL./ACRE)
ANIONIC ASPHALT EMULSION	7:1*	COARSE SPRAY	1,200
LATEX EMULSION	12.5:1*	FINE SPRAY	235
RESIN-IN-WATER EMULSION	4:1*	FINE SPRAY	300

*USE MANUFACTURER'S RECOMMENDATIONS WHEN AVAILABLE.

MAINTENANCE:
- PROHIBIT TRAFFIC ON SURFACE AFTER SPRAYING.
- SUPPLEMENT SURFACE COVERING AS NEEDED.

INSTALLATION:
- APPLY ACCORDING TO APPROVED PLAN.
- MULCH DISTURBED AREAS AMD TACKIFY WITH RESINS SUCH AS ASPHALT, CURASOL OR TERRATACK ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- STABILIZE DISTURBED AREAS WITH TEMPORARY OR PERMANENT VEGETATION.
- IRRIGATE DISTURBED AREAS UNTIL SURFACE IS WET.
- COVER SURFACES WITH CRUSHED STONE OR GRAVEL.
- APPLY CALCIUM CHLORIDE AT A RATE TO KEEP SURFACES MOIST.
- APPLY SPRAY-ON ADHESIVES TO MINERAL SOILS (NOT MUCK SOILS) AS DESCRIBED IN TABLE 1.

(DC) DUST CONTROL ON DISTURBED AREAS

SILT FENCE – POST REQUIREMENTS

1. Silt Fence posts must be 48-inch long steel posts that meet, at a minimum, the following physical characteristics.
   - Composed of a high strength steel with a minimum yield strength of 50,000 psi.
   - Include a standard "I" section with a nominal face width of 1.38-inches and a nominal "I" length of 1.48-inches.
   - Weigh 1.25 pounds per foot (± 8%)
2. Posts shall be equipped with projections to aid in fastening of filter fabric.
3. Steel posts may need to have a metal soil stabilization plate welded near the bottom when installed along steep slopes or installed in loose soils. The plate should have a minimum cross section of 17-square inches and be composed of 15 gauge steel, at a minimum. The metal soil stabilization plate should be completely buried.
4. Install posts to a minimum of 24-inches. A minimum height of 1- to 2-inches above the fabric shall be maintained, and a maximum height of 3 feet shall be maintained above the ground.
5. Post spacing shall be at a maximum of 6-feet on center.

SILT FENCE – FABRIC REQUIREMENTS

1. Silt fence must be composed of woven geotextile filter fabric that consists of the following requirements:
   - Composed of fibers consisting of long chain synthetic polymers of at least 85% by weight of polyolefins, polyesters, or polyamides that are formed into a network such that the filaments or yarns retain dimensional stability relative to each other;
   - Free of any treatment or coating which might adversely alter its physical properties after installation;
   - Free of any defects or flaws that significantly affect its physical and/or filtering properties; and,
   - Have a minimum width of 36-inches.
2. Use only fabric appearing on SC DOT's Qualified Products Listing (QPL), Approval Sheet #34, meeting the requirements of the most current edition of the SC DOT Standard Specifications for Highway Construction.
3. 12-inches of the fabric should be placed within excavated trench and toed in when the trench is backfilled.
4. Filter Fabric shall be purchased in continuous rolls and cut to the length of the barrier to avoid joints.
5. Filter Fabric shall be installed at a minimum of 24-inches above the ground.

SILT FENCE – INSPECTION & MAINTENANCE

1. The key to functional silt fence is weekly inspections, routine maintenance, and regular sediment removal.
2. Regular inspections of silt fence shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall even that produces 1/2-inch or more of precipitation.
3. Attention to sediment accumulations along the silt fence is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
4. Remove accumulated sediment when it reaches 1/3 the height of the silt fence.
5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
6. Check for areas where stormwater runoff has eroded a channel beneath the silt fence, or where the fence has sagged or collapsed due to runoff overtopping the silt fence. Install checks/tie-backs and/or reinstall silt fence, as necessary.
7. Check for tears within the silt fence, areas where silt fence has begun to decompose, and for any other circumstance that may render the silt fence ineffective. Removed damaged silt fence and reinstall new silt fence immediately.
8. Silt fence should be removed within 30 days after final stabilization is achieved and once it is removed, the resulting disturbed area shall be permanently stabilized.

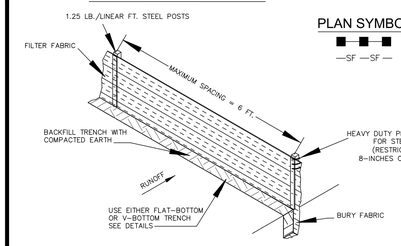
South Carolina Department of Health and Environmental Control

SILT FENCE

STANDARD DRAWING NO. SC-03 PAGE 2 of 2

GENERAL NOTES FEBRUARY 2014 DATE

SILT FENCE INSTALLATION



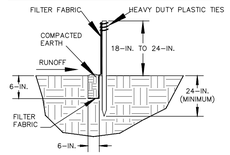
PLAN SYMBOL

—SF—SF—

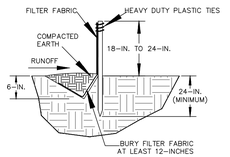
SILT FENCE – GENERAL NOTES

1. Do not place silt fence across channels or in other areas subject to concentrated flows. Silt fence should not be used as a velocity control BMP. Concentrated flows are any flows greater than 0.5 cfs.
2. Maximum sheet or overland flow path length to the silt fence shall be 100-feet.
3. Maximum slope steepness (normal [perpendicular] to the fence line) shall be 2:1.
4. Silt fence joints, when necessary, shall be completed by one of the following options:
   - Wrap each fabric together at a support post with both ends fastened to the post, with a 1-foot minimum overlap;
   - Overlap silt fence by installing 3-feet passed the support post to which the new silt fence roll is attached. Attach old roll to new roll with heavy-duty plastic ties; or,
   - Overlap entire width of each silt fence roll from one support post to the next support post.
5. Attach filter fabric to the steel posts using heavy-duty plastic ties that are evenly spaced within the top 8-inches of the fabric.
6. Install the silt fence perpendicular to the direction of the stormwater flow and place the silt fence the proper distance from the toe of steep slopes to provide sediment storage and access for maintenance and cleanout.
7. Install Silt Fence Checks (Tie-Backs) every 50-100 feet, dependent on slope, along silt fence that is installed with slope and where concentrated flows are expected or are documented along the proposed/installed silt fence.

FLAT-BOTTOM TRENCH DETAIL



V-SHAPED TRENCH DETAIL



South Carolina Department of Health and Environmental Control

SILT FENCE

STANDARD DRAWING NO. SC-03 Page 1 of 2

NOT TO SCALE FEBRUARY 2014 DATE

SEDIMENT TUBES – GENERAL NOTES

1. Sediment tubes may be installed along contours, in drainage conveyance channels, and around inlets to help prevent off-site discharge of sediment-laden stormwater runoff.
2. Sediment tubes are elongated tubes of compacted geotextiles, curled excelsior wood, natural coconut fiber, or hardwood mulch. Straw, pine needle, and leaf mulch-filled sediment tubes are not permitted.
3. The outer netting of the sediment tube should consist of seamless, high-density polyethylene photodegradable materials treated with ultraviolet stabilizers or a seamless, high-density polyethylene non-degradable material.
4. Sediment tubes, when used as checks within channels, should range between 18-inches and 24-inches depending on channel dimensions. Diameters outside this range may be allowed where necessary when approved.
5. Curled excelsior wood, or natural coconut products that are rolled up to create a sediment tube are not allowed.
6. Sediment tubes should be staked using wooden stakes (2-inch X 2-inch) or steel posts (standard "U" or "T" sections with a minimum weight of 1.25 pounds per foot) at a minimum of 48-inches in length placed on 2-foot centers.
7. Install all sediment tubes to ensure that no gaps exist between the soil and the bottom of the tube. Manufacturer's recommendations should always be consulted before installation.
8. The ends of adjacent sediment tubes should be overlapped 6-inches to prevent flow and sediment from passing through the field joint.
9. Sediment tubes should not be stacked on top of one another, unless recommended by manufacturer.
10. Each sediment tube should be installed in a trench with a depth equal to 1/5 the diameter of the sediment tube.
11. Sediment tubes should continue up the side slopes a minimum of 1-foot above the design flow depth of the channel.
12. Install stakes at a diagonal facing incoming runoff.

SEDIMENT TUBES – INSPECTION & MAINTENANCE

1. The key to functional sediment tubes is weekly inspections, routine maintenance, and regular sediment removal.
2. Regular inspections of sediment tubes shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall even that produces 1/2-inch or more of precipitation.
3. Attention to sediment accumulations in front of the sediment tube is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
4. Remove accumulated sediment when it reaches 1/3 the height of the sediment tube.
5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
6. Large debris, trash, and leaves should be removed from in front of tubes when found.
7. If erosion causes the edges to fall to a height equal to or below the height of the sediment tube, repairs should be made immediately to prevent runoff from bypassing tube.
8. Sediment tubes should be removed after the contributing drainage area has been completely stabilized. Permanent vegetation should replace areas from which sediment tubes have been removed.

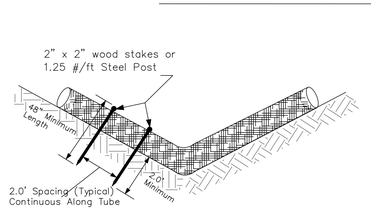
South Carolina Department of Health and Environmental Control

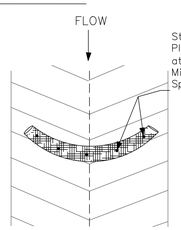
SEDIMENT TUBES

STANDARD DRAWING NO. SC-05 PAGE 2 of 2

GENERAL NOTES FEBRUARY 2014 DATE

SEDIMENT TUBE INSTALLATION





SEDIMENT TUBE SPACING

SLOPE	MAX. SEDIMENT TUBE SPACING
LESS THAN 2%	150-FEET
2%	100-FEET
3%	75-FEET
4%	50-FEET
5%	40-FEET
6%	30-FEET
GREATER THAN 6%	25-FEET

PLAN SYMBOL

—SF—SF—

South Carolina Department of Health and Environmental Control

SEDIMENT TUBES

STANDARD DRAWING NO. SC-05 PAGE 1 of 2

NOT TO SCALE FEBRUARY 2014 DATE

CONSTRUCTION ENTRANCE – GENERAL NOTES

1. Stabilized construction entrances should be used at all points where traffic will egress/ingress a construction site onto a public road or any impervious surfaces, such as parking lots.
2. Install a non-woven geotextile fabric prior to placing any stone.
3. Install a culvert pipe across the entrance when needed to provide positive drainage.
4. The entrance shall consist of 2-inch to 3-inch D50 stone placed at a minimum depth of 6-inches.
5. Minimum dimensions of the entrance shall be 24-feet wide by 100-feet long, and may be modified as necessary to accommodate site constraints.
6. The edges of the entrance shall be tapered out towards the road to prevent tracking at the edge of the entrance.
7. Divert all surface runoff and drainage from the stone pad to a sediment trap or basin or other sediment trapping structure.
8. Limestone may not be used for the stone pad.

CONSTR. ENTRANCE – INSPECTION & MAINTENANCE

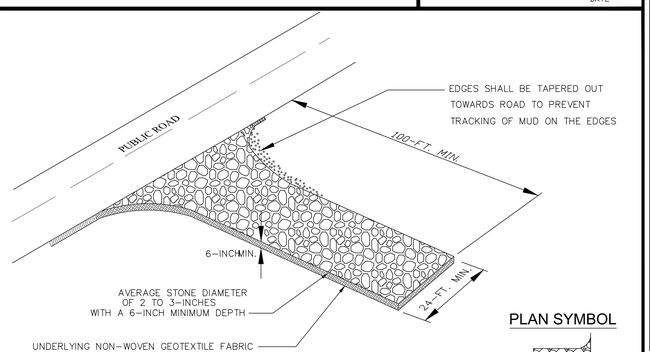
1. The key to functional construction entrances is weekly inspections, routine maintenance, and regular sediment removal.
2. Regular inspections of construction entrances shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall even that produces 1/2-inch or more of precipitation.
3. During regular inspections, check for mud and sediment buildup and pad integrity. Inspection frequencies may need to be more frequent during long periods of wet weather.
4. Reshape the stone pad as necessary for drainage and runoff control.
5. Wash or replace stones as needed and as directed by site inspector. The stone in the entrance should be washed or replaced whenever the entrance fails to reduce the amount of mud being carried off-site by vehicles. Frequent washing will extend the useful life of stone pad.
6. Immediately remove mud and sediment tracked or washed onto adjacent impervious surfaces by brushing or sweeping. Flushing should only be used when the water can be discharged to a sediment trap or basin.
7. During maintenance activities, any broken pavement should be repaired immediately.
8. Construction entrances should be removed after the site has reached final stabilization. Permanent vegetation should replace areas from which construction entrances have been removed, unless area will be converted to an impervious surface to serve post-construction.

South Carolina Department of Health and Environmental Control

CONSTRUCTION ENTRANCE

STANDARD DRAWING NO. SC-06 PAGE 2 of 2

GENERAL NOTES FEBRUARY 2014 DATE



PLAN SYMBOL

SPECIFICATION	SIZE
ROCK PAD THICKNESS	6 INCHES
ROCK PAD WIDTH	24 FEET
ROCK PAD LENGTH	100 FEET
ROCK PAD STONE SIZE	D = 2-3 INCHES

South Carolina Department of Health and Environmental Control

CONSTRUCTION ENTRANCE

STANDARD DRAWING NO. SC-06 PAGE 1 of 2

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AAA STORAGE CITY
BEAUFORT, SOUTH CAROLINA
LADYS ISLAND STORAGE, LLC
BEAUFORT, SOUTH CAROLINA

INITIAL EROSION CONTROL DETAILS

VERTICAL DATUM: NGVD29

PROJECT #:	190309
DATE:	03/11/21
DESIGNED BY:	JCH
CHECKED BY:	CPB

SHEET
C202

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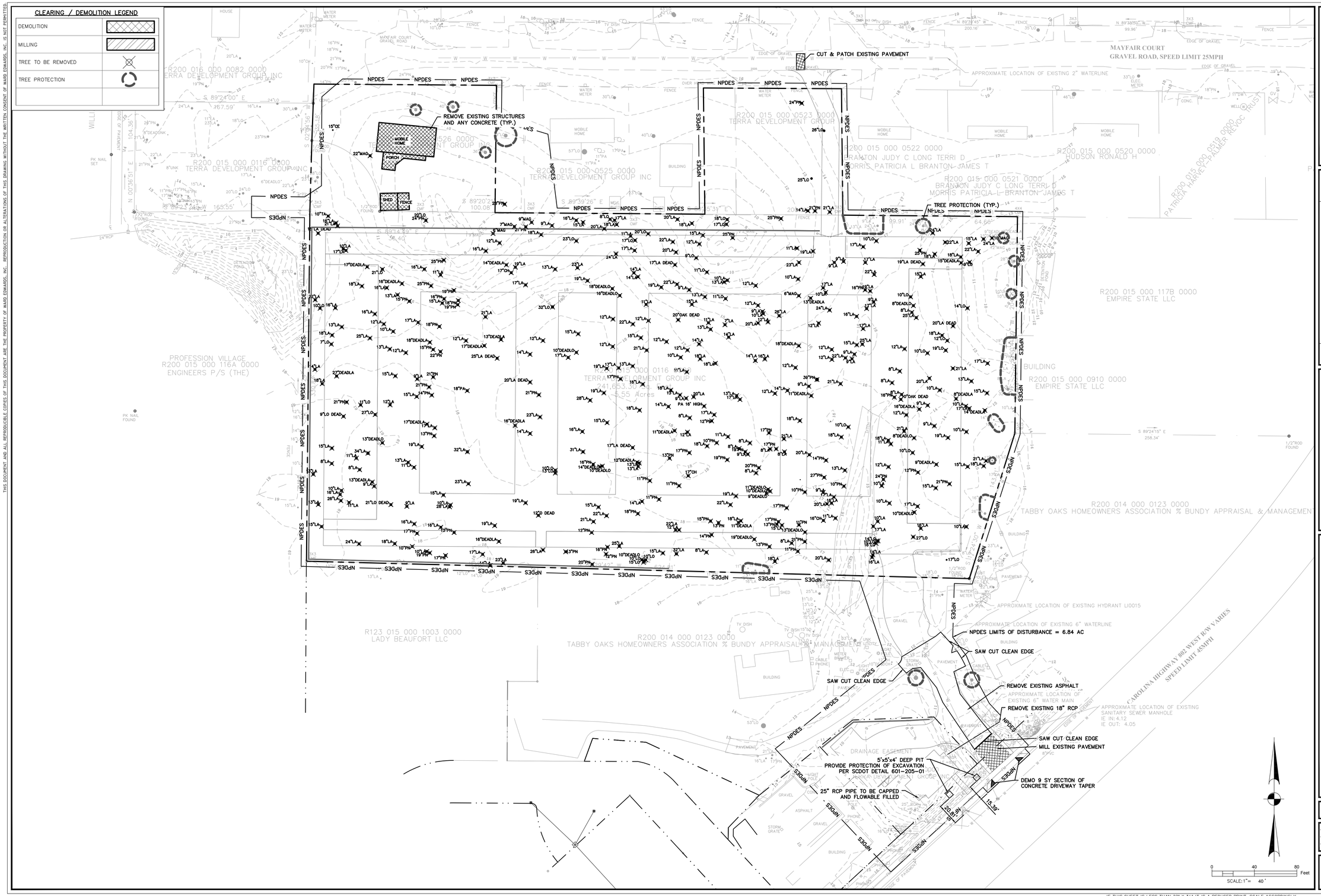

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SOUTH CAROLINA PROFESSIONAL ENGINEER LICENSE No. 36273 CONOR P. BLANEY

SOUTH CAROLINA WARD EDWARDS, INC. No. C00152 CERTIFICATE OF AUTHORIZATION

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PLAN REVISIONS

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AAA STORAGE CITY
BEAUFORT, SOUTH CAROLINA

LADYS ISLAND STORAGE, LLC
BEAUFORT, SOUTH CAROLINA

CLEARING & DEMOLITION PLAN

VERTICAL DATUM: NGVD29

PROJECT #:	190309
DATE:	03/11/21
DESIGNED BY:	JCH
CHECKED BY:	CPB

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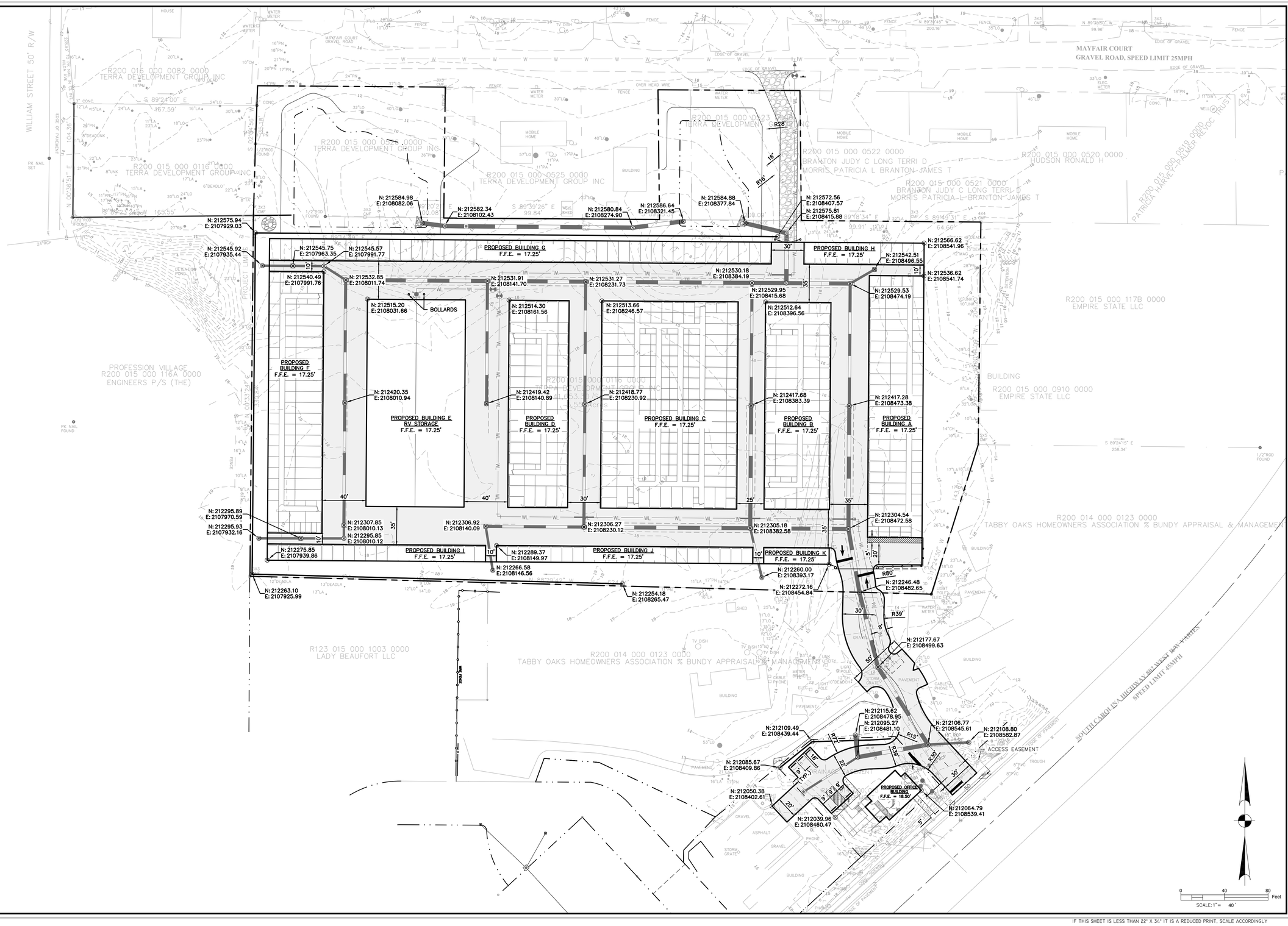

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AAA STORAGE CITY
BEAUFORT, SOUTH CAROLINA

LADYS ISLAND STORAGE, LLC
BEAUFORT, SOUTH CAROLINA

SITE LAYOUT PLAN

VERTICAL DATUM: NGVD29

PROJECT #:	190309
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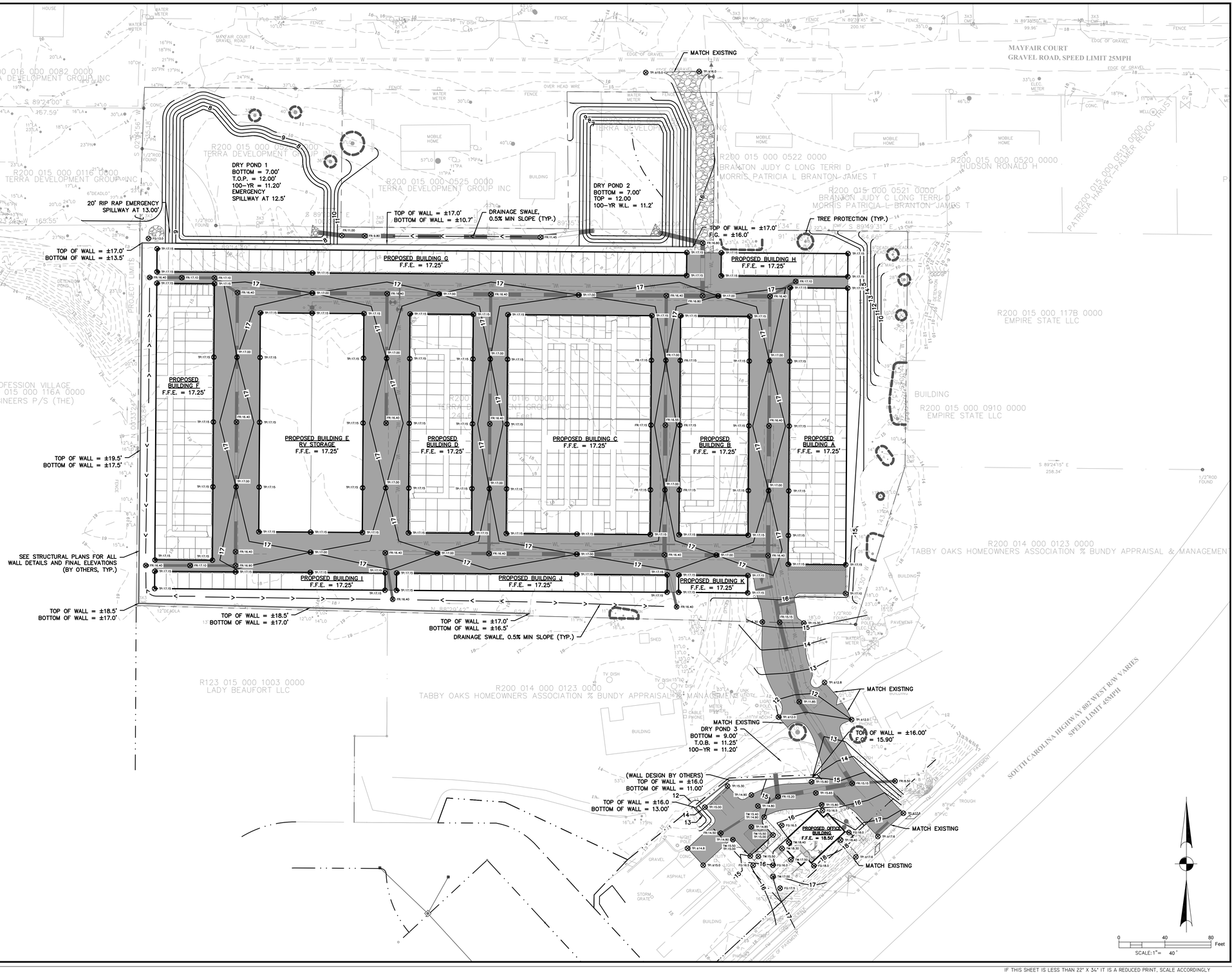
GRADING LEGEND

	PROPOSED
TOP OF PAVEMENT ELEVATION	⊗ TP: 22.50
TOP OF WALK ELEVATION	⊗ TW: 22.50
TOP OF CURB ELEVATION	⊗ TC: 22.50
FINISH GRADE	⊗ FG: 22.5
HIGH POINT	⊗ HP
LOW POINT	⊗ LP
CONTOUR	19
DITCH CENTERLINE	→ PD →
DIRECTION OF FLOW	→
DOORWAY	▶



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AAA STORAGE CITY

BEAUFORT, SOUTH CAROLINA

LADY'S ISLAND STORAGE, LLC
BEAUFORT, SOUTH CAROLINA

GRADING PLAN

VERTICAL DATUM: NGVD29

PROJECT #:	190309
DATE:	05/11/21
DESIGNED BY:	JCH
CHECKED BY:	CPB

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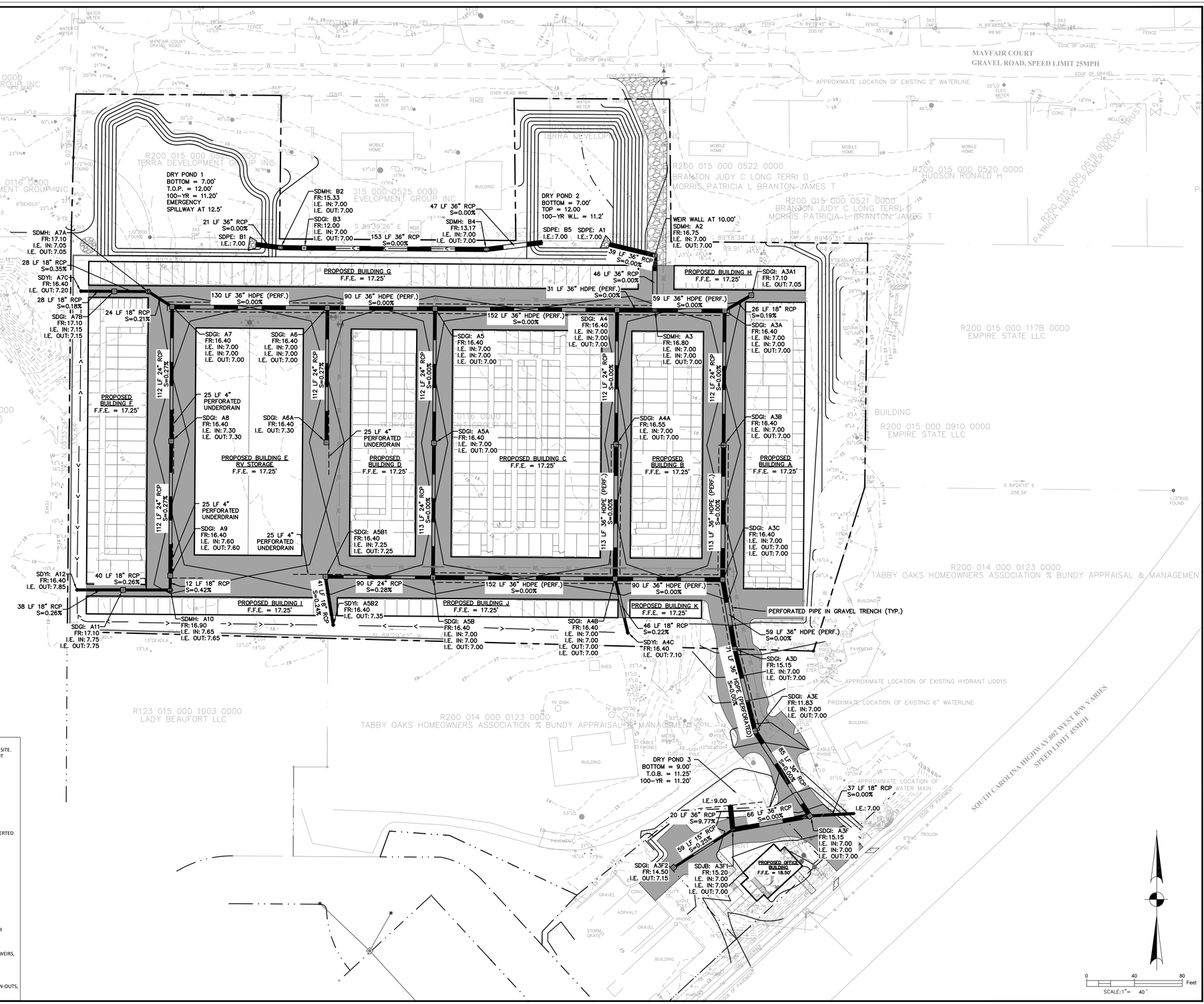
STORM SEWER/DRAINAGE LEGEND

	PROPOSED
DROP INLET	DI: A1
CURB INLET (WITH GRATE)	CI: A1
TYPE 16 CURB INLET	CI: A1
VALLEY GUTTER INLET	VI: A1
TRENCH DRAIN	TD: A1
WEIR INLET	WI: A1
YARD INLET	YI: A1
JUNCTION BOX	JB: A1
CLEANOUT	CO
DOWNSPOUT	
STORM DRAIN	
UNDERDRAIN	
ROOF DRAIN COLLECTOR	
FLARED END SECTION	
HEADWALL	
HEADWALL WITH WINGS	
OUTLET CONTROL STRUCTURE	
DITCH CENTERLINE	PD
DIRECTION OF FLOW	



0 40 80 Feet
SCALE: 1" = 40'

AS-BUILT SURVEY REQUIREMENTS

CONTRACTOR IS RESPONSIBLE FOR PROVIDING AN AS-BUILT TOPOGRAPHIC SURVEY OF THE CONSTRUCTED PROJECT SITE. THE SURVEY SHALL CONFORM TO SCDHEC AND LOCAL GOVERNMENT AS-BUILT REQUIREMENTS INCLUDING, BUT NOT NECESSARILY LIMITED TO THE FOLLOWING:

- THE SURVEY SHALL BE PREPARED AND SIGNED BY A SOUTH CAROLINA LICENSED LAND SURVEYOR.
- A SIGNED HARD COPY AND AUTOCAD FILE SHALL BE PROVIDED TO THE ENGINEER.
- ELEVATIONS SHALL BE BASED UPON THE SAME VERTICAL DATUM USED IN THE ENGINEERING PLANS.
- THE DRAWING SHALL BE ON THE SC NAD83 STATE PLANE COORDINATE SYSTEM.
- THE SURVEY SHALL INCLUDE THE FOLLOWING AS-BUILT INFORMATION TO INCLUDE LOCATION AND ELEVATIONS:
  - a. PROPERTY LINES
  - b. BUILDING(S) WITH FINISHED FLOOR ELEVATIONS
  - c. PAVING TO INCLUDE ELEVATIONS ALONG EDGES AND INTERNAL RIDGES AND VALLEYS (I.E. ROAD CROWNS, INVERTED CROWN FLOW LINES)
  - d. ADA-ACCESSIBLE RAMPS
  - e. CURB AND GUTTER
  - f. SIDEWALKS
  - g. SIGNAGE
  - h. STORM INLETS WITH PIPE DIAMETER(S), FRAME, AND INVERT
  - i. JUNCTION BOXES WITH PIPE DIAMETER(S), FRAME, AND INVERT
  - j. SANITARY SEWER MANHOLES WITH FRAME AND INVERT
  - k. PUMP STATIONS TO INCLUDE FENCING, CONTROLS, DRIVEWAY, WETWELL TOP/BOTTOM ELEVATIONS
  - l. DITCHES TO INCLUDE TOP OF BANK, BOTTOM OF BANK, AND CENTERLINE
  - m. PONDS TO INCLUDE CONTOURS FROM TOP OF BANK TO WATER SURFACE AND MEASURED DEPTH FROM WATER SURFACE TO POND BOTTOM
  - n. WEIR ELEVATIONS AND DIMENSIONS
  - o. OUTLET CONTROL STRUCTURES TO INCLUDE ELEVATIONS AND DIMENSIONS OF ALL RISERS, GRATES, ORIFICES, WEIRS, AND OUTLET PIPE INVERTS AND DIAMETERS
  - p. EMERGENCY SPILLWAY DIMENSIONS AND ELEVATIONS
  - q. LOCATIONS AND INVERTS FOR ALL PIPES DISCHARGING INTO THE POND
  - r. ALL OTHER VISIBLE SITE FEATURES TO INCLUDE VALVES, FDCS, HYDRANTS, TRANSFORMERS, LIGHT POLES, CLEAN-OUTS, PEDESTALS, SERVICE YARDS, FENCING, HVAC/MECHANICAL DEVICES, AND BOLLARDS.

CAROLINA, SOUTH — CONOR P. BYRNE — ENGINEER — No. 36272 — LICENSED — 07/01/21
CAROLINA, SOUTH — WARD EDWARDS, INC. — No. C00152 — CERTIFICATE OF AUTHORIZATION

NO.	DESCRIPTION	DATE
1	PLAN REVISIONS	
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Ward Edwards ENGINEERING
P.O. BOX 381, BLUFFTON, SOUTH CAROLINA 29910
PH (843) 837-5250 / FAX (843) 837-2558
WWW.WARDEDWARDS.COM

AAA STORAGE CITY
BEAUFORT, SOUTH CAROLINA

LADYS ISLAND STORAGE, LLC
BEAUFORT, SOUTH CAROLINA

DRAINAGE PLAN

VERTICAL DATUM: NGVD29

PROJECT #:	190309
DATE:	03/11/21
DESIGNED BY:	JCH
CHECKED BY:	CPB

SHEET
C601

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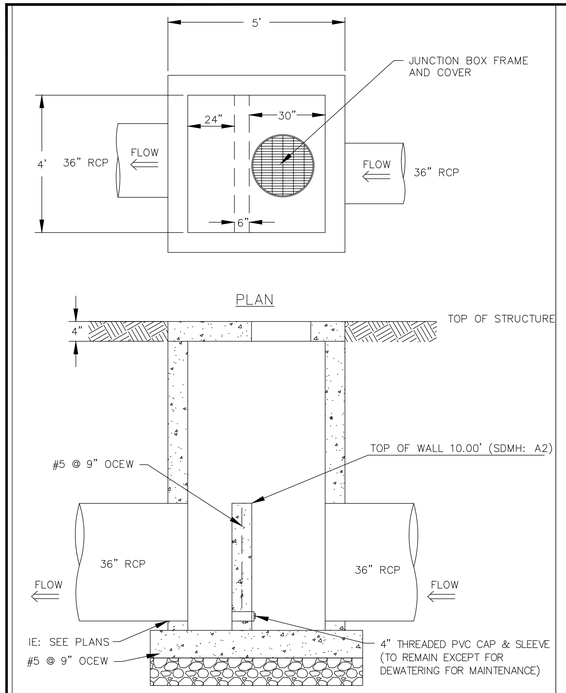
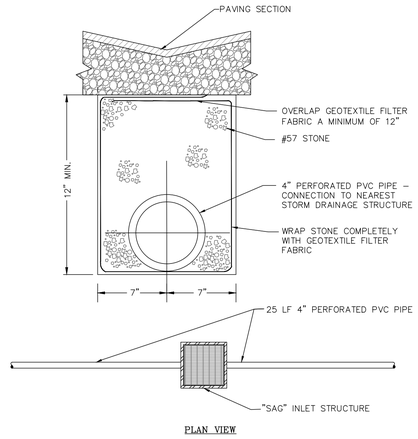


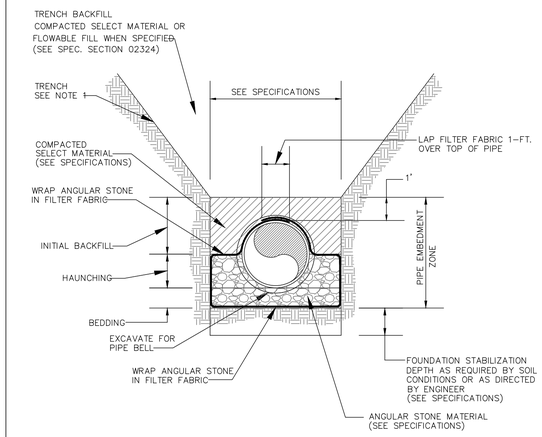
OUTLET CONTROL STURCTURE



PLAN VIEW

UNDERDRAIN DETAIL

DETAIL 02630-025

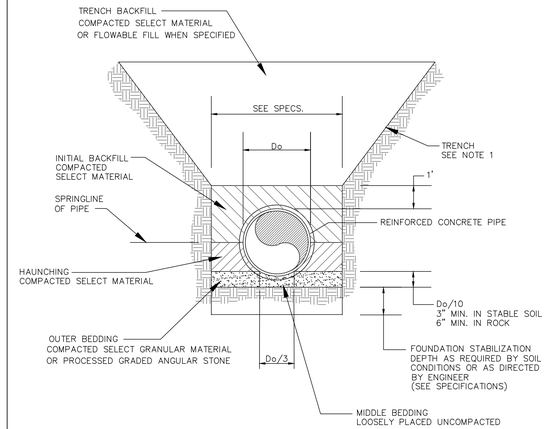


NOTE 1: DEPTH OF VERTICAL TRENCH AND SIDE SLOPES OF TRENCH MAY VARY DEPENDING ON DEPTH OF EXCAVATION AND TRENCH PROTECTION SYSTEM USED. COMPLY WITH OSHA REGULATIONS (STANDARDS – 29 CFR) PART 1956 SUBPART P, EXCAVATIONS.

EMBEDMENT DETAIL FOR THERMOPLASTIC GRAVITY SEWERS AND DRAINS

DETAIL 02537 - XX

SCALE: NONE

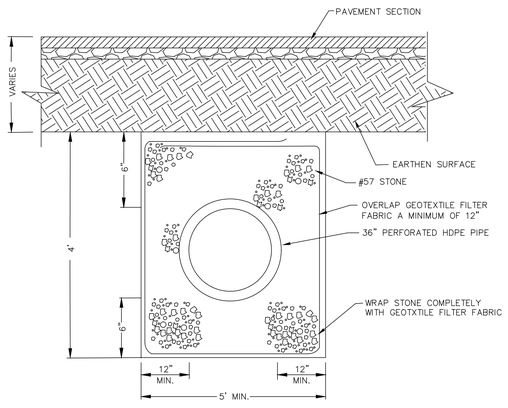


NOTES:

1: DEPTH OF VERTICAL TRENCH AND SIDE SLOPES OF TRENCH MAY VARY DEPENDING ON DEPTH OF EXCAVATION AND TRENCH PROTECTION SYSTEM USED. COMPLY WITH OSHA REGULATIONS (STANDARDS – 29 CFR) PART 1956 SUBPART P, EXCAVATIONS.

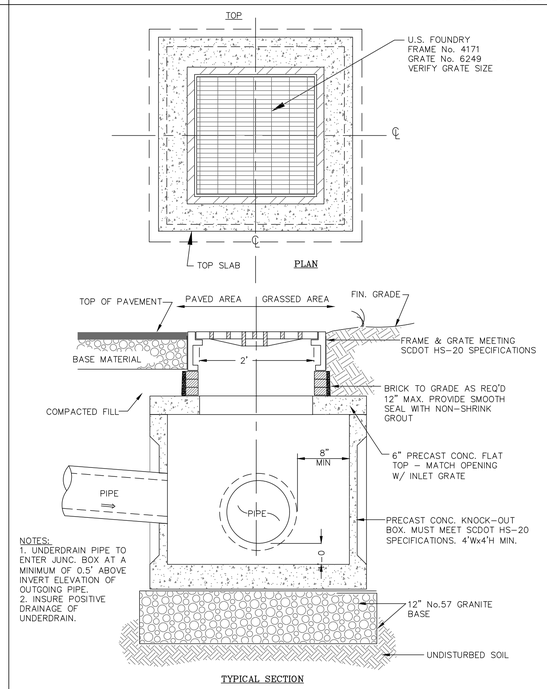
2. WHEN PROCESSED ANGULAR STONE IS USED FOR MIDDLE AND OUTER BEDDING, THE STONE SHALL BE COMPLETELY WRAPPED IN FILTER FABRIC TO PREVENT MIGRATION OF SURROUNDING SOILS.

EMBEDMENT DETAIL FOR REINFORCED CONCRETE PIPE



PERFORATED PIPE DETAIL

DETAIL 02630-021

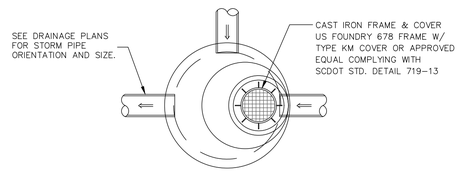


NOTES:
1. UNDERDRAIN PIPE TO ENTER JUNC. BOX AT A MINIMUM OF 0.5' ABOVE INVERT ELEVATION OF OUTGOING PIPE.
2. INSURE POSITIVE DRAINAGE OF UNDERDRAIN.

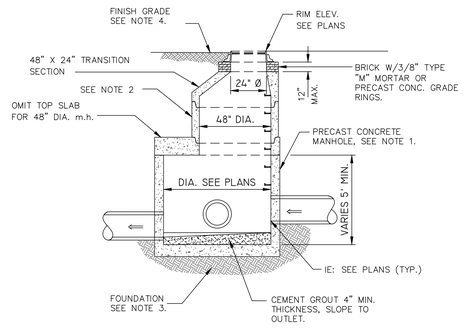
TYPICAL SECTION

GRATE INLET

DETAIL 02630-027



PLAN VIEW



SECTION VIEW

STORM DRAIN MANHOLE

DETAIL: 02630-037

NOTES:
1. PRECAST CONCRETE MANHOLE:
   A. MANHOLE BASES: BASES SHALL HAVE A MONOLITHIC BASE SLAB WITH RISER BARREL CONFORMING TO ASTM C478, AASHYO M199, AND DESIGNED FOR AASHTO HS25 LOADING.
   B. MANHOLE RISERS: RISER SECTIONS SHALL HAVE A MINIMUM 5" WALL FOR 48"DIA., 6" WALL FOR 60" DIA., 7" WALL FOR 72" DIA., 8" WALL FOR 84" DIA., 9" WALL FOR 96" DIA., 10" WALL FOR 120" DIA., AND 12" WALL FOR 144" DIA.. THE RISER SHALL ALSO CONFORM TO ASTM C478 AND AASHTO M199.
   C. MANHOLE TOP SLABS: TOP SLABS SHALL HAVE A MINIMUM THICKNESS OF 8" AND CONFORM TO ASTM C478 AND DESIGNED FOR ASSHTO HS25 LOADING.
   D. MANHOLE STEPS: SEE DETAIL 02630–XX.
   E. CONCRETE: CONCRETE SHALL BE AIR ENTRAINED AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000psi AT 28 DAYS. CONCRETE SHALL BE PLACED IN FORMS AND VIBRATED IN SUCH A MANNER TO MAKE A DENSE UNIFORM PRODUCT.
2. INTERMEDIATE STRAIGHT 48" BARREL SECTION MAY BE OMITTED WITH 48"x 24" TRANSITION SECTION BEING PLACED DIRECTLY ON TOP SLAB OF LOWER SECTION.
3. SOIL FOUNDATION:
   A. IF WEAK OR UNSTABLE SOIL IS ENCOUNTERED, CONTINUE EXCAVATION TO SUITABLE MATERIAL (6" Min.) OR AS DIRECTED BY THE ENGINEER.
   B. BACKFILL OVER EXCAVATION WITH SUITABLE GRANULAR MATERIAL AND COMPACT TO 98% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557.
   C. WHERE WATER IS PRESENT, BACKFILL OVER EXCAVCATION WITH #57 STONE. WRAP STONE BACKFILL WITH FILTER CLOTH.
4. WHEN FINISHED GRADE IS STREET PAVEMENT OR UNPAVED SHOULDER, SET CAST IRON FRAME AND LID FLUSH WITH THE STREET OR SHOULDER SURFACE. WHEN FINISHED GRADE IS IN TURF, SET CAST IRON FRAME AND LID ONE INCH ABOVE FINISHED GRADE.

STORM DRAIN MANHOLE NOTES

DETAIL: 02630-044

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 36273
LICENSE
CONNOR P. BLAKELY
05/11/21
SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
WARD EDWARDS, INC.
No. C00152

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P.O. BOX 381, BLUFFTON, SOUTH CAROLINA 29910
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AAA STORAGE CITY
BEAUFORT, SOUTH CAROLINA

LADY'S ISLAND STORAGE, LLC
BEAUFORT, SOUTH CAROLINA

DRAINAGE DETAILS

VERTICAL DATUM: NGVD29

PROJECT #:	190309
DATE:	05/11/21
DESIGNED BY:	JCH
CHECKED BY:	CPB

SHEET
C602

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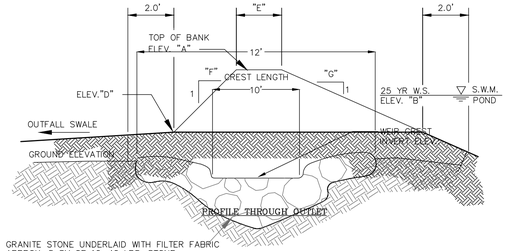
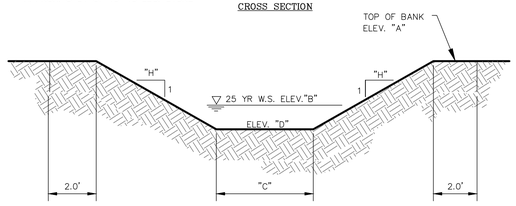
DIMENSION DATA

A	XX.XX'	TOP OF BANK
B	XX.XX'	25-YR PEAK
C	XX.XX'	WIDTH OF OUTLET WEIR
D	XX.XX'	OUTLET WEIR ELEVATION
E	XX.XX'	TOP WIDTH
F	3:1	SLOPE
G	3:1	SLOPE
H	5:1	SLOPE



GRANITE STONE UNDERLAID WITH FILTER FABRIC
APPROX. 5 SY OF 10-40 LBS. STONE

CROSS SECTION

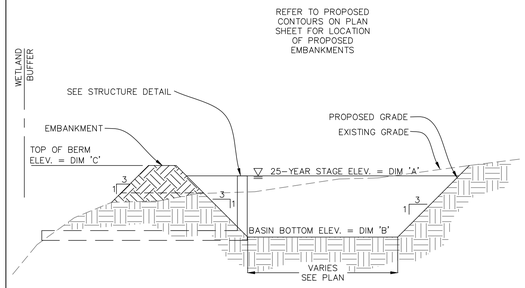


CROSS SECTION

RIPRAP OVER SPILLWAY DETAIL

DETAIL 02630-018

REFER TO PROPOSED CONTOURS ON PLAN SHEET FOR LOCATION OF PROPOSED EMBANKMENTS



DIMENSION DATA

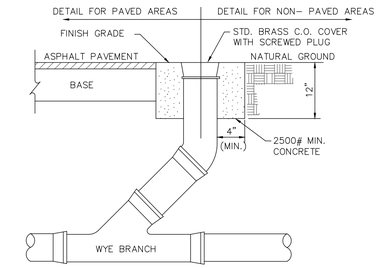
	BASIN 1	BASIN 2	
DIM 'A'	15.35'	17.11'	25 YR. PEAK
DIM 'B'	14.15'	16.25'	BOTTOM ELEV.
DIM 'C'	16.00'	17.50'	TOP OF BERM

EMBANKMENT CONSTRUCTION NOTES:
1. ALL VEGETATION ROOTS, BRUSH, SOD, RUBBISH, DEBRIS, AND ALL OTHER UNSUITABLE MATERIALS SHALL BE STRIPPED AND REMOVED FROM THE LIMITS OF THE PROPOSED EMBANKMENT CONSTRUCTION.
2. THE MATERIAL FOR THE EMBANKMENT CONSTRUCTION SHALL CONSIST OF SAND-CLAY OR CLAYEY SAND. THE SOIL FILL SHALL BE FREE OF ORGANICS AND SENSITIVE CLAY MATERIALS.
3. THE EMBANKMENT AND BACKFILL MATERIAL SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY, AS DETERMINED BY THE STANDARD PROCTOR TEST. ALL FILL SHALL BE COMPACTED TO THE LINES, DEPTHS, AND GRADES AS INDICATED. EXCESS EXCAVATION OF THE EXISTING SOILS MAY BE NECESSSARY TO OBTAIN THE REQUIRED DENSITY AT THE LIMITS OF EXCAVATION.

EROSION & SEDIMENT CONTROL NOTE:
1. SEE PLANS FOR INDICATION OF EROSION CONTROL MEASURES AND SURFACE STABILIZATION METHOD TO BE USED

DRY DETENTION BASIN CROSS SECTION

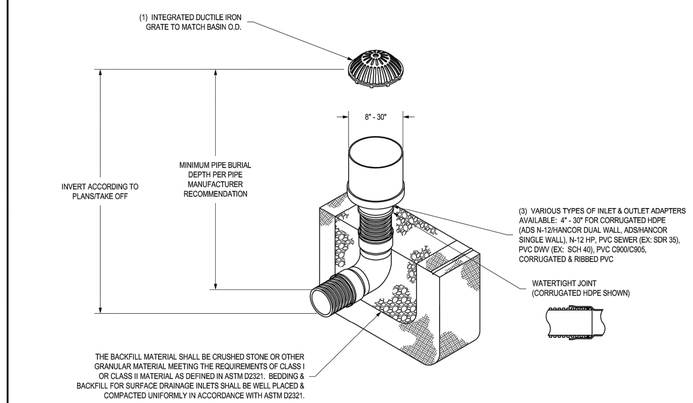
DETAIL 02630-033



NOTE: USE EXPANSION JOINT MAT'L AROUND PAD IN CONCRETE PAVED AREAS.

CLEANOUT DETAIL

NYLOPLAST INLINE DRAIN WITH DOME GRATE



1 - 8" - 30" DOME GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 24").
3 - 8" - 30" DOME GRATES HAVE NO LOAD RATING

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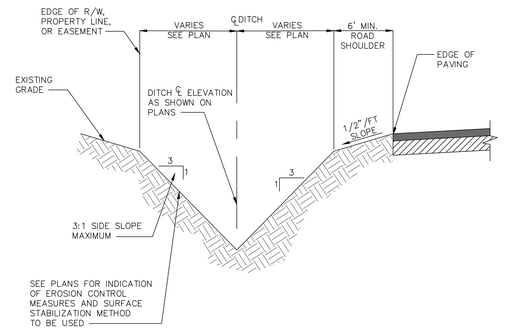
DATE	03-25-10		
APPD BY	CCA	PROJECT NO./NAME	
DATE	08-27-13		
DWG SIZE	A	SCALE 1:40	SHEET 1 OF 1

Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE: INLINE DRAIN WITH DOME GRATE
QUICK SPEC INSTALLATION DETAIL

DWG NO. 7003-110-057 REV C



TYPICAL V-SHAPED DITCH CROSS SECTION

DETAIL 02630-024

NOT FOR CONSTRUCTION

SOUTH CAROLINA PROFESSIONAL ENGINEER
CHRISTOPHER P. CONNER
LICENSE No. 36273
05/11/21
SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
WARD EDWARDS, INC.
No. C00152

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AAA STORAGE CITY
BEAUFORT, SOUTH CAROLINA

LADY'S ISLAND STORAGE, LLC
BEAUFORT, SOUTH CAROLINA

DRAINAGE DETAILS

VERTICAL DATUM: NGVD29

PROJECT #:	190309
DATE:	05/11/21
DESIGNED BY:	JCH
CHECKED BY:	CPB

SHEET
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WATER SYSTEM LEGEND

	PROPOSED
WATER METER	⊡
WATER VALVE	⋈
REDUCER	▶
POST INDICATOR VALVE	⊗
FIRE HYDRANT	
BLOWOFF HYDRANT	
YARD HYDRANT	
FIRE DEPART. CONN. (FDC)	
CAP	⊐
PLUG	—
BACKFLOW PREVENTOR	
BUTTERFLY VALVE	
FITTINGS	
WATER LINE	—— WL ——
SERVICE LATERAL	——

SANITARY SEWER LEGEND

	PROPOSED
SANITARY SEWER MANHOLE	Ⓢ MH: A1
SANITARY SEWER CLEANOUT	● CO
SANITARY SEWER WYE	
CHECK VALVE IN MANHOLE	
PLUG VALVE	
AIR RELEASE VALVE	(AR)
SEWER LINE	—— SS ——
FORCE MAIN	—— FM ——
SERVICE LATERAL	——

APPROXIMATE LOCATION OF EXISTING 2" WATER MAIN. CONTRACTOR TO FIELD VERIFY SIZE AND LOCATION PRIOR TO CONSTRUCTION

2"x2" TEE
6"x2" REDUCER
6" G.V. IN BOX (TRAFFIC RATED)
200 LF 6" WATERLINE (TEE TO 90° BEND)

APPROXIMATE LOCATION OF EXISTING 2" WATERLINE

6" 90° BEND

18 LF DIP CENTERED ON STORM CROSSING

FIRE HYDRANT ASSEMBLY
6"x6" TEE
(2) 6" LOCKING G.V., BOX & COVER
75 LF 6" DIP (G.V. TO HYDRANT)
4" STEEL BOLLARD (2)

MAINTAIN 3' SEPARATION BETWEEN MAIN AND STORM
MAINTAIN 10' SEPARATION BETWEEN BUILDING/STRUCTURE AND MAIN

6"x6" 90° BEND
366 LF 6" WATERLINE (90° BEND)

18 LF DIP CENTERED ON STORM CROSSING

PROPOSED BUILDING G
F.F.E. = 17.25'

PROPOSED BUILDING H
F.F.E. = 17.25'

PROPOSED BUILDING F
F.F.E. = 17.25'

PROPOSED BUILDING E
RV STORAGE
F.F.E. = 17.25'

PROPOSED BUILDING D
F.F.E. = 17.25'

PROPOSED BUILDING C
F.F.E. = 17.25'

PROPOSED BUILDING B
F.F.E. = 17.25'

PROPOSED BUILDING A
F.F.E. = 17.25'

18 LF DIP CENTERED ON STORM CROSSING
6" 90° BEND

18 LF DIP CENTERED ON STORM CROSSING

6"x6" 90° BEND
6" G.V. IN BOX (TRAFFIC RATED)
6" 11.25° BEND

PROPOSED BUILDING I
F.F.E. = 17.25'

PROPOSED BUILDING J
F.F.E. = 17.25'

PROPOSED BUILDING K
F.F.E. = 17.25'

CONTRACTOR TO FIELD VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCY

PROVIDE 15' TEMPORARY CONSTRUCTION EASEMENT FOR INSTALLATION OF THE NEW 6" WATER MAIN

APPROXIMATE LOCATION OF EXISTING HYDRANT LI0015

6" 22.5° BEND

APPROXIMATE LOCATION OF EXISTING 6" WATERLINE

6"x6" M.J. TEE
6" G.V. IN BOX (TRAFFIC RATED)
G.V. TO BE WITHIN 18" OF TEE
423 LF 6" WATERLINE (TEE TO TEE)

APPROXIMATE LOCATION OF EXISTING 6" WATER MAIN

APPROXIMATE LOCATION OF EXISTING SANITARY SEWER MANHOLE

WATER SERVICE:
6"x 2" TAPPING SADDLE AND VALVE (TRAFFIC RATED IN PAVEMENT, METER BY BJWSA)
8 LF 2" HDPE WATERLINE TO METER
RPZ BACKFLOW PREVENTER (SIZED BY OTHERS)

BJWSA POINT OF DEMARCATION

5'x5'x4' DEEP PIT
PROVIDE PROTECTION OF EXCAVATION PER SCDOT DETAIL 601-205-01

SEWER SERVICE:
10"x6" SERVICE CONNECTION AT EXISTING, I.E.=±3.9'
26 LF 6" PVC SDR 26 SERVICE LATERAL (1% MIN SLOPE)
4" CLEANOUT AT PROPERTY LINE
4" DUAL SWEEP CLEANOUT AT BUILDING
6" WYE W/CLEANOUT

PROPOSED OFFICE BUILDING
F.F.E. = 18.50'

15.39'

MAYFAIR COURT
GRAVEL ROAD, SPEED LIMIT 25MPH

CAROLINA HIGHWAY 802 WEST R/W VARIES
SPEED LIMIT 45MPH

PROFESSION VILLAGE
R200 015 000 116A 0000
ENGINEERS P/S (THE)

R200 016 000 0082 0000
TERRA DEVELOPMENT GROUP INC

R200 015 000 0116 0000
TERRA DEVELOPMENT GROUP INC

R200 015 000 0525 0000
TERRA DEVELOPMENT GROUP INC

R200 015 000 0523 0000
TERRA DEVELOPMENT GROUP INC

R200 015 000 0522 0000
BRANTON JUDY C LONG TERRI D
MORRIS PATRICIA L BRANTON JAMES T

R200 015 000 0520 0000
HUDSON RONALD H

R200 015 000 0521 0000
BRANTON JUDY C LONG TERRI D
MORRIS PATRICIA L BRANTON JAMES T

R200 015 000 0519 0000
PATRICIA HARVEY-PALMER REVOC TRUST

R200 015 000 117B 0000
EMPIRE STATE LLC

R200 015 000 0910 0000
EMPIRE STATE LLC

R200 014 000 0123 0000
TABBY OAKS HOMEOWNERS ASSOCIATION % BUNDY APPRAISAL & MANAGEMENT

R200 015 000 1003 0000
BEAUFORT LLC

R123 015 000 0001 0000
SCDOT

241,653.0 Square Feet
5.55 Acres

PK NAIL FOUND

1/2"ROD FOUND

0 40 80 Feet
SCALE: 1" = 40'

BJWSA UTILITY AS-BUILT SURVEY REQUIREMENTS

1. CONTRACTOR SHALL PROVIDE ENGINEER WITH ELECTRONIC FILE OF SURVEYED UTILITY AS-BUILT POINTS. POINT DESCRIPTIONS SHALL BE CLEAR AND UNDERSTANDABLE.
2. CONTRACTOR SHALL ALSO PROVIDE CORRESPONDING REDLINE DRAWING TO SUPPLEMENT OR CLARIFY ELECTRONIC FILE CONTENT.
3. CONTRACTOR SHALL SCHEDULE SURVEYOR TO BE PRESENT DURING INSTALLATION IN ORDER TO OBTAIN ACCURATE INFORMATION ON UNDERGROUND FITTINGS AND SANITARY/STORM CROSSING ELEVATIONS. MULTIPLE SURVEYOR MOBILIZATIONS MAY BE NEEDED. IF SURVEYOR IS NOT PRESENT DURING INSTALLATION, CONTRACTOR SHALL ENSURE SURVEYOR HAS ACCESS TO ALL UTILITY COMPONENTS LISTED IN THESE NOTES.
4. CONTRACTOR'S SURVEYOR SHALL BE A PROFESSIONAL LAND SURVEYOR LICENSED IN SOUTH CAROLINA. CONTRACTOR'S SURVEYOR WILL REVIEW AND SIGN THE BJWSA CERTIFICATION ON THE UTILITY AS-BUILT DRAWING PREPARED BY ENGINEER UPON COMPLETION.
5. UTILITY AS-BUILT POINTS SHALL BE BASED UPON THE NORTH AMERICAN DATUM OF 1983 (NAD83) AND THE USGS NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).
6. AS BUILT SURVEY SHALL INCLUDE, BUT NOT NECESSARILY BE LIMITED TO, THE FOLLOWING:
   - a. GRAVITY SEWER
     - i. MANHOLE LOCATIONS, FRAME ELEVATION, ALL INVERT ELEVATIONS
     - ii. CLEANOUT LOCATIONS, GROUND ELEVATION, INVERT ELEVATION
     - iii. POINTS FOR PERMANENT VISIBLE STRUCTURES NEARBY MANHOLES AND CLEANOUTS FOR REFERENCE (PAVEMENT, BUILDINGS, MANHOLES, CATCH BASINS, POWER POLES, OR PROPERTY CORNERS)
   - b. FORCE MAIN
     - i. ELEVATION ON TOP OF FORCE MAIN CONNECTION TO MANHOLE OR FORCE MAIN MANIFOLD
     - ii. AIR RELEASE VALVES
     - iii. SIMPLE FORCE MAIN ALIGNMENTS ON 100 LF INCREMENTS
     - iv. ARCS, BENDS ON 50 LF INCREMENTS
   - c. WATER
     - i. HORIZONTAL AND VERTICAL LOCATION OF ALL VALVES, BENDS, TEES, AND STORM/SANITARY CROSSING POINTS (FOR AS-BUILT SEPARATION CALCULATONS)
     - ii. FIRE HYDRANTS
     - iii. CONCRETE MARKERS, CONNECTIONS TO EXISTING LINES, BACKFLOW PREVENTORS, AIR RELEASE VALVES
     - iv. POINTS FOR PERMANENT VISIBLE STRUCTURES NEAR WATER SYSTEM ELEMENTS DESCRIBED ABOVE FOR REFERENCE (PAVEMENT, BUILDINGS, MANHOLES, CATCH BASINS, POWER POLES, OR PROPERTY CORNERS). TWO SURVEYED REFERENCE POINT LOCATIONS ARE REQUIRED FOR EACH FITTING.
   - d. PUMP STATIONS
     - i. COMPLETE LAYOUT OF PUMP STATION
     - ii. MANHOLE LOCATIONS, FRAME ELEVATION, ALL INVERT ELEVATIONS
     - iii. FENCING & GATES, CONTROL PANEL
     - iv. TOP OF SLAB (INCL. BRASS BENCHMARK) & BOTTOM OF WETWELL
     - v. INFLUENT LINE INVERT
     - vi. FLOAT LEVELS (PUMP OFF, PUMP ON, LEAD/LAG, BOHT PUMPS ON, HIGH WATER)
     - vii. PROPERTY CORNERS, YARD HYDRANT, LIGHT POLE, DISCHARGE PIPING/VALVES

NOT FOR CONSTRUCTION

SOUTH CAROLINA PROFESSIONAL ENGINEER — No. 36273 — LICENSE — CONNOR P. BLANEY — 09/11/21

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — WARD EDWARDS, INC. — No. C00152

NO.	DESCRIPTION	DATE
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Ward Edwards
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WWW.WARDEDWARDS.COM

AAA STORAGE CITY
BEAUFORT, SOUTH CAROLINA

LADYS ISLAND STORAGE, LLC
BEAUFORT, SOUTH CAROLINA

UTILITY PLAN

VERTICAL DATUM: NGVD29

PROJECT #:	190309
DATE:	03/11/21
DESIGNED BY:	JCH
CHECKED BY:	CPB

SHEET
C701

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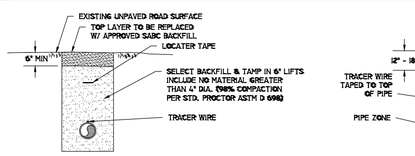
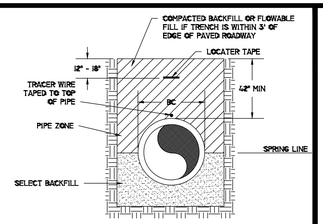
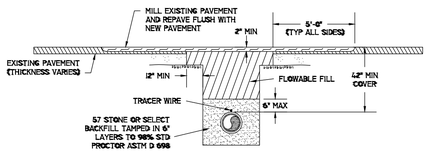


UNPAVED ROADWAY BEDDING DETAIL



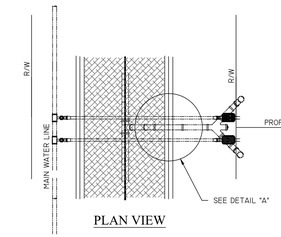
TYPICAL BEDDING DETAIL



PAVED AREA DETAIL

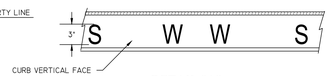
NOTES:
1. PAVEMENT CUT TO EXTEND 12" BEYOND EDGES OF TRENCH AS SHOWN.
2. MILL AND REPLACE OF ASPHALT TO EXTENTS SHOWN SHALL BE BY SCDOT CERTIFIED PAVING CONTRACTOR. MINIMUM THICKNESS OF ASPHALT REPLACEMENT SHALL BE 2 INCHES.
3. FLOWABLE FILL SHALL BE PLACED FLUSH WITH BOTTOM OF EXISTING PAVEMENT MILL. NO VOIDS OR FILL SHALL BE EVIDENT BETWEEN FLOWABLE FILL AND NEW ASPHALT PAVEMENT.
4. LANE STRIPING SHALL ONLY BE REPLACED ON NEW ASPHALT PAVEMENT AND ANY AREAS OF EXISTING ROADWAY DAMAGED BY CONSTRUCTION ACTIVITIES.
5. ALL INSTALLATIONS IN PUBLIC ROADWAYS SHALL COMPLY WITH CONDITIONS OUTLINED ON THE APPLICABLE ENCROACHMENT PERMIT.

BEAUFORT - JASPER WATER & SEWER AUTHORITY			
BEDDING PRESSURE PIPE DETAIL			
DATE: 05/07/18	DRAWN BY: SBF	APPROVED BY: BMC	DRAWING #: G-02
SCALE: N.T.S.			

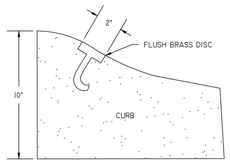


PLAN VIEW

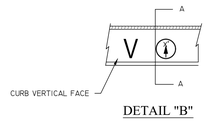
NOTES:
1. CURB MARKING SHALL BE PERPENDICULAR WITH SERVICE LOCATION.
2. CURB MARKING SHALL BE EMBOSSED INTO CURB FACE.
   A. WATER SERVICES SHALL BE DENOTED WITH A "W".
   B. SEWER SERVICES SHALL BE DENOTED WITH A "S".
   C. VALVES SHALL BE DENOTED BY A "V".
   D. BENDS SHALL BE DENOTED WITH A "B".
3. VALVE AND PIPELINE MARKERS ARE NOT REQUIRED IF A SURVEYORS 2"Ø BRASS DISK IS EMBEDDED ADJACENT TO EMBOSSED LETTER AND MARKED TO INDICATE LOCATION OF REFERENCED ITEM.
4. DISC MUST BE EMBEDDED, MAY NOT PROTRUDE PASS CONCRETE SURFACE OR EMBEDDED MORE THAN 3/8".



DETAIL "A"

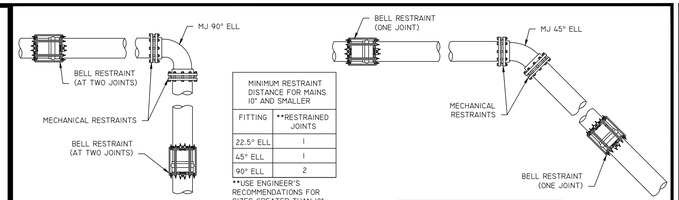


SECTION A-A



DETAIL "B"

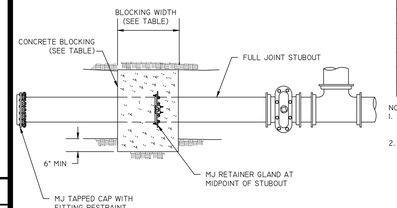
BEAUFORT-JASPER WATER & SEWER AUTHORITY			
CURB MARKING DETAIL			
DATE: 07/01/09	DRAWN BY: BMC	APPROVED BY: ERS	DRAWING #: G-07
SCALE: N.T.S			



MINIMUM RESTRAINT DISTANCE FOR MAINS 10" AND SMALLER	
FITTING	**RESTRAINED JOINTS
22.5° ELL	1
45° ELL	1
90° ELL	2

**USE ENGINEER'S RECOMMENDATIONS FOR SIZES GREATER THAN 10"

TYPICAL FITTING AND JOINT RESTRAINT

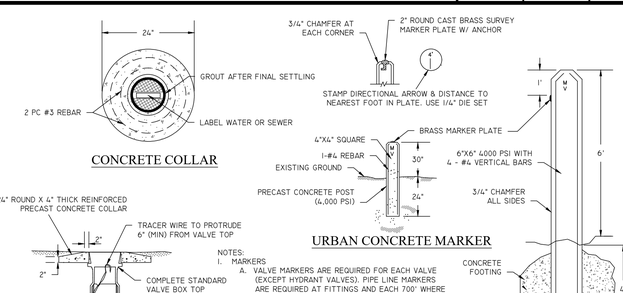


TYPICAL FUTURE STUBOUT

MINIMUM BLOCKING DIMENSIONS		
PIPE SIZE (IN)	BLOCKING BEARING AREA (FT²)	BLOCKING WIDTH (IN)
4	2	24
6	4	24
8	7	36
10	11	36
12	15	36
OVER 12" BY THE DESIGN ENGINEER		

NOTE:
1. THE MINIMUM DIMENSIONS TABLE IS BASED ON AN ASSUMED SOIL BEARING OF 2000 LBS PER SQ. FT. IF BEARING VALUE FOR SOIL IS LESS THAN AREA SHOWN HEREIN SHOULD BE INCREASED ACCORDINGLY.
2. JOINT IS DEFINED TO BE A MINIMUM OF 18" IN LENGTH.

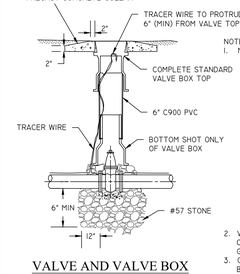
BEAUFORT-JASPER WATER & SEWER AUTHORITY			
MECHANICAL RESTRAINT			
DATE: 07/01/09	DRAWN BY: BMC	APPROVED BY: ERS	DRAWING #: G-08
SCALE: N.T.S			



CONCRETE COLLAR

URBAN CONCRETE MARKER

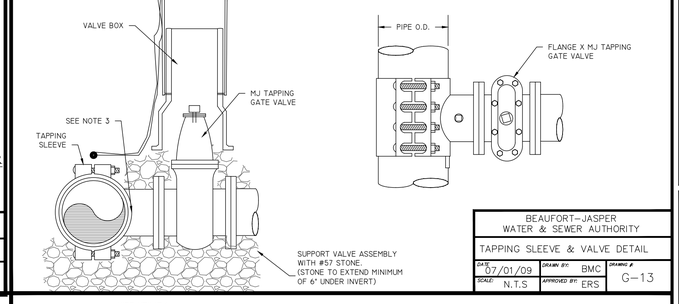
RURAL CONCRETE MARKER



VALVE AND VALVE BOX

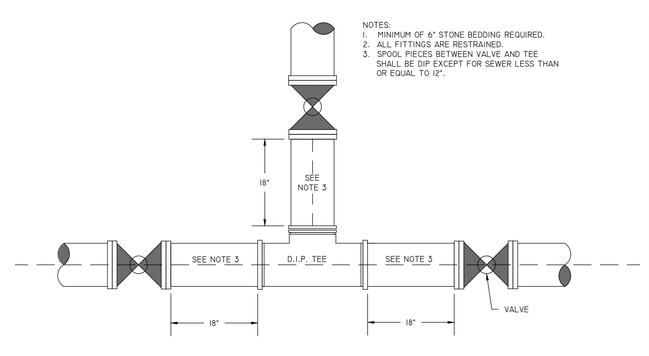
NOTES:
1. MARKERS
   A. VALVE MARKERS ARE REQUIRED FOR EACH VALVE (EXCEPT HYDRANT VALVES). PIPE LINE MARKERS ARE REQUIRED AT FITTINGS AND EACH 700' WHERE LINES RUN THROUGH AN UNDEVELOPED AREA. AR MANHOLE REQUIRES MANHOLE.
   B. MARKER PAINTING
      WATER - PAINTING NOT REQUIRED
      SEWER INFLUENT - TOP 4" GREEN
      SEWER EFFLUENT - TOP 4" PURPLE
   C. MARK MARKERS AS FOLLOWS
      MV - MAIN VALVE
      AV - AIR RELEASE VALVE
      PIPELINE - PIPELINE MARKER
   D. VALVE AND PIPELINE MARKERS IN MOWED AREAS TO BE SET TO AN EXPOSURE OF NOT MORE THAN 18" OR LESS THAN 6" ABOVE FINAL GRADE.
   E. IF SOILS ARE NOT STABLE ENOUGH TO MAINTAIN THE URBAN MARKERS VERTICAL, CONCRETE FOOTINGS ARE TO BE INSTALLED.
2. VALVE BOX LID SHALL BE WITHIN ½" OF COLLAR TOP. COLLAR TOP IS TO BE NO MORE THAN ½" ABOVE FINAL GRADE AND NO LOWER THAN ½" BELOW FINAL GRADE.
3. CONCRETE COLLAR NOT REQUIRED IN PAVEMENT. VALVE BOX TOP IS TO BE TRAFFIC RATED.

BEAUFORT-JASPER WATER & SEWER AUTHORITY			
STANDARD VALVE DETAIL			
DATE: 07/01/09	DRAWN BY: BMC	APPROVED BY: ERS	DRAWING #: G-12
SCALE: N.T.S			



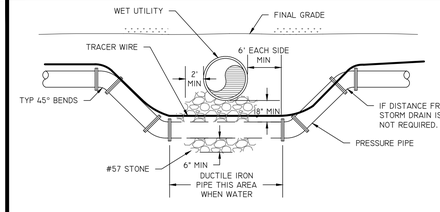
NOTES:
1. ALL TAPPING SLEEVES GREATER THAN 2" SHALL BE HYDROSTATICALLY PRESSURE TESTED TO 150 PSI FOR 20 MINUTES.
2. ALL WET TAPS 12" AND UNDER SHALL BE PERFORMED BY BJWSA.
3. TAP DIAMETER SHALL BE WITHIN 2" OF LINE DIAMETER.
4. NOTCH TOP OF PVC PIPE TO AVOID PINCHING TRACER WIRE.

BEAUFORT-JASPER WATER & SEWER AUTHORITY			
TAPPING SLEEVE & VALVE DETAIL			
DATE: 07/01/09	DRAWN BY: BMC	APPROVED BY: ERS	DRAWING #: G-13
SCALE: N.T.S			



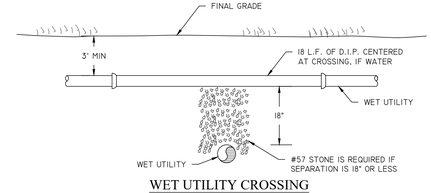
NOTES:
1. MINIMUM OF 6" STONE BEDDING REQUIRED.
2. ALL FITTINGS ARE RESTRAINED.
3. SPOOL PIECES BETWEEN VALVE AND TEE SHALL BE DIP EXCEPT FOR SEWER LESS THAN OR EQUAL TO 12".

BEAUFORT-JASPER WATER & SEWER AUTHORITY			
TEE AND VALVES			
DATE: 07/01/09	DRAWN BY: BMC	APPROVED BY: ERS	DRAWING #: G-15
SCALE: N.T.S			



PRESSURE PIPE UNDER WET UTILITY FOR FINAL DEPTH 5' OR GREATER

NOTES:
1. WRITTEN AUTHORIZATION FROM BJWSA IS REQUIRED FOR LESS THAN 18" SEPARATION.
2. NORMAL JOINT RESTRAINT IS REQUIRED.



WET UTILITY CROSSING

BEAUFORT-JASPER WATER & SEWER AUTHORITY			
WET UTILITY CROSSING			
DATE: 07/01/09	DRAWN BY: BMC	APPROVED BY: ERS	DRAWING #: G-16
SCALE: N.T.S			

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JOSHUA C. HOLLINGER — SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER — LICENSE NO. 36273 — 09/11/21

WARD EDWARDS, INC. — CERTIFICATE OF AUTHORIZATION No. C00152 — SOUTH CAROLINA

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WWW.WARDEDWARDS.COM

AAA STORAGE CITY
BEAUFORT, SOUTH CAROLINA
LADY'S ISLAND STORAGE, LLC
BEAUFORT, SOUTH CAROLINA

UTILITY DETAILS

VERTICAL DATUM: NGVD29

PROJECT #:	190309
DATE:	03/11/21
DESIGNED BY:	JCH
CHECKED BY:	CPB

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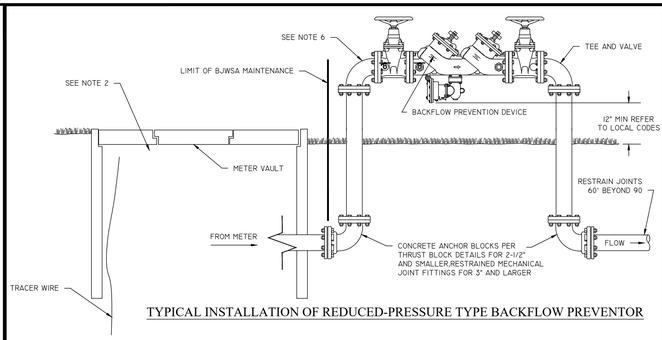
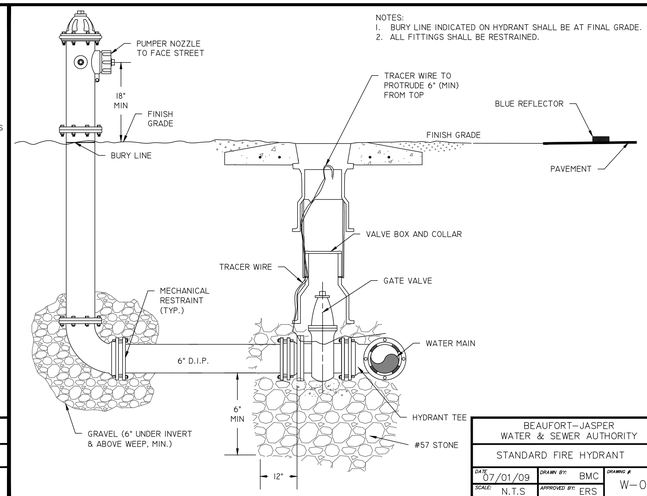


TYPICAL INSTALLATION OF REDUCED-PRESSURE TYPE BACKFLOW PREVENTOR

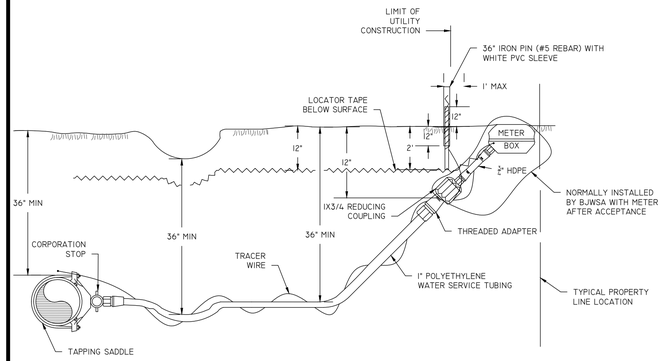
NOTES:
1. REDUCED-PRESSURE BACKFLOW PREVENTION DEVICES SHALL BE REQUIRED FOR ANY SERVICE WHERE TOXIC MATERIALS ARE USED OR WHERE POSITIVE PROTECTION FOR THE PUBLIC WATER SUPPLY IS REQUIRED. TYPICAL APPLICATIONS INCLUDE: HOSPITALS, MEDICAL & DENTAL LABS, MORTUARIES, INDUSTRIAL PLANTS, DRY CLEANERS, IRRIGATION SYSTEMS, OR AS DETERMINED BY BJWSA.
2. SEE SPECIFIC METER DETAIL FOR MORE INFORMAION.
3. BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED ADJACENT TO AND ON PROPERTY SIDE OF SIDEWALK WHERE APPLICABLE. WHERE NO SIDEWALKS EXISTS, THE ASSEMBLY SHALL BE INSTALLED BEFORE ANY BRANCH AND AS CLOSE AS POSSIBLE TO THE WATER METER LOCATION. FINAL LOCATION TO BE APPROVED BY BJWSA PRIOR TO INSTALLATION.
4. SCREENING AND LANDSCAPING PLACES AROUND DEVICE SHALL ALLOW FOR ACCESS BY BJWSA PERSONNEL..
5. FREEZE PROTECTION IS THE OWNERS RESPOSIBILITY .
6. PIPING AND FITTINGS THROUGH 2 ½" SHALL BE SCHD 40 GALVANIZED STEEL.. PIPING AND FITTINGS 3" AND LARGER SHALL BE FLANGED DUCTILE IRON.
7. REFER TO SCDHEC APPROVED LIST OF BACKFLOW PREVENTION DEVICES.
8. DUAL CHECK VALVES MAY BE INSTALLED IN UNDERGROUND VAULT (PRIOR APPROVAL BY BJWSA REQUIRED).

BEAUFORT–JASPER WATER & SEWER AUTHORITY		
BACKFLOW PREVENTION DETAIL		
DATE: 07/01/09	DRAWN BY: BMC	DRAWING #: W–01
SCALE: N.T.S	APPROVED BY: ERS	

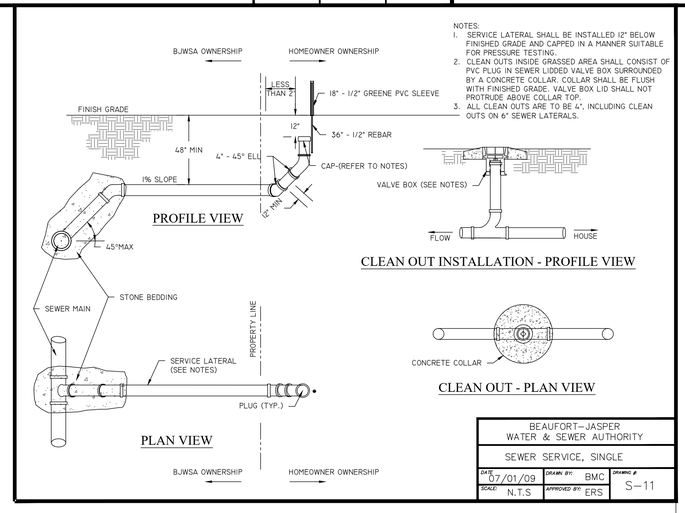


NOTES:
1. BURY LINE INDICATED ON HYDRANT SHALL BE AT FINAL GRADE.
2. ALL FITTINGS SHALL BE RESTRAINED.

BEAUFORT–JASPER WATER & SEWER AUTHORITY		
STANDARD FIRE HYDRANT		
DATE: 07/01/09	DRAWN BY: BMC	DRAWING #: W–03
SCALE: N.T.S	APPROVED BY: ERS	

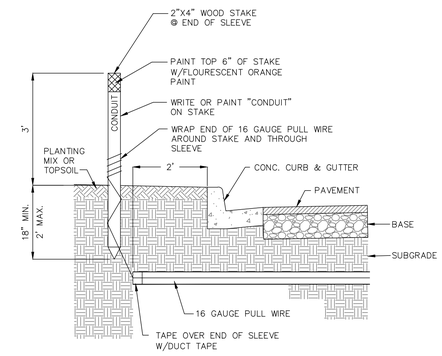


BEAUFORT–JASPER WATER & SEWER AUTHORITY		
WATER SERVICE PROFILE		
DATE: 07/01/09	DRAWN BY: BMC	DRAWING #: W–09
SCALE: N.T.S	APPROVED BY: ERS	



NOTES:
1. SERVICE LATERAL SHALL BE INSTALLED 12" BELOW FINISHED GRADE AND CAPPED IN A MANNER SUITABLE FOR PRESSURE TESTING.
2. CLEAN OUTS INSIDE GRASSED AREA SHALL CONSIST OF PVC PLUG IN SEWER LIDDED VALVE BOX SURROUNDED BY A CONCRETE COLLAR. COLLAR SHALL BE FLUSH WITH FINISHED GRADE. VALVE BOX LID SHALL NOT PROTRUDE ABOVE COLLAR TOP.
3. ALL CLEAN OUTS ARE TO BE 4", INCLUDING CLEAN OUTS ON 6" SEWER LATERALS.

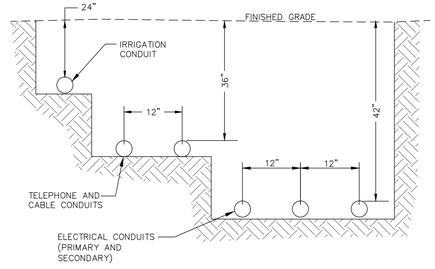
BEAUFORT–JASPER WATER & SEWER AUTHORITY		
SEWER SERVICE, SINGLE		
DATE: 07/01/09	DRAWN BY: BMC	DRAWING #: S–11
SCALE: N.T.S	APPROVED BY: ERS	



CONDUIT NOTES:

1. ALL CONDUIT ENDS SHALL BE CAPPED AND MARKED AS ILLUSTRATED.
2. ELECTRICAL CONDUIT: 42" BURY DEPTH, SCH 40 ELECTRICAL GRADE (N.E.C.) PVC
3. TELCO CONDUIT: 36" BURY DEPTH, SCH 40 ELECTRICAL GRADE (N.E.C.) PVC
4. IRRIGATION CONDUIT: 24" BURY DEPTH, SCH 40 PVC
5. MINIMUM 12" VERTICAL CLEARANCE WHEN CROSSING WATER, SEWER, AND DRAINAGE.
6. MINIMUM 18" HORIZONTAL CLEARANCE WHEN PARALLELING WATER, SEWER, AND DRAINAGE.
7. MINIMUM 12" HORIZONTAL SEPARATION BETWEEN CONDUIT.
8. CONDUIT MUST EXTEND BEYOND PAVEMENT, CURB, AND SIDEWALKS.
9. THE CONTRACTOR MUST INSTALL ALL CONDUITS, AS SHOWN ON THE PLANS OR AS REQUIRED BY DRY UTILITY COMPANIES. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE STRICT COMPLIANCE WITH ALL APPLICABLE CODES AND REGULATIONS WITH REGARDS TO THE INSTALLATION OF UTILITIES AND CONDUIT.
10. REFER TO PLANS FOR CONDUIT SIZE AND LOCATION. PLAN VIEW LOCATIONS OF CONDUIT ARE APPROXIMATE.
11. NO 90° OR 45° COUPLINGS TO BE USED ON CONDUIT.
12. CONDUIT MUST BE STRAIGHT TO ALLOW PIPE AND/OR WIRING BY UTILITY COMPANY AND IRRIGATION INSTALLER.
13. CONDUIT NOT INSTALLED AT PROPER DEPTH WILL BE REINSTALLED TO CONFORM TO DETAIL.
14. CONTRACTOR TO VERIFY CONDUIT INTEGRITY PRIOR TO FINAL PAVING.

CONDUIT DETAIL



UTILITY CONDUIT TRENCH DETAIL

NOT FOR CONSTRUCTION

SOUTH CAROLINA PROFESSIONAL ENGINEER — No. 36273 — LICENSED — CONNOR P. BLAKELY — 09/11/21

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — WARD EDWARDS, INC. — No. C00152

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Ward Edwards ENGINEERING
P.O. BOX 381 - BLUFFTON, SOUTH CAROLINA 29910
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WWW.WARDEDWARDS.COM

AAA STORAGE CITY
BEAUFORT, SOUTH CAROLINA
LADYS ISLAND STORAGE, LLC
BEAUFORT, SOUTH CAROLINA

UTILITY DETAILS

VERTICAL DATUM: NGVD29

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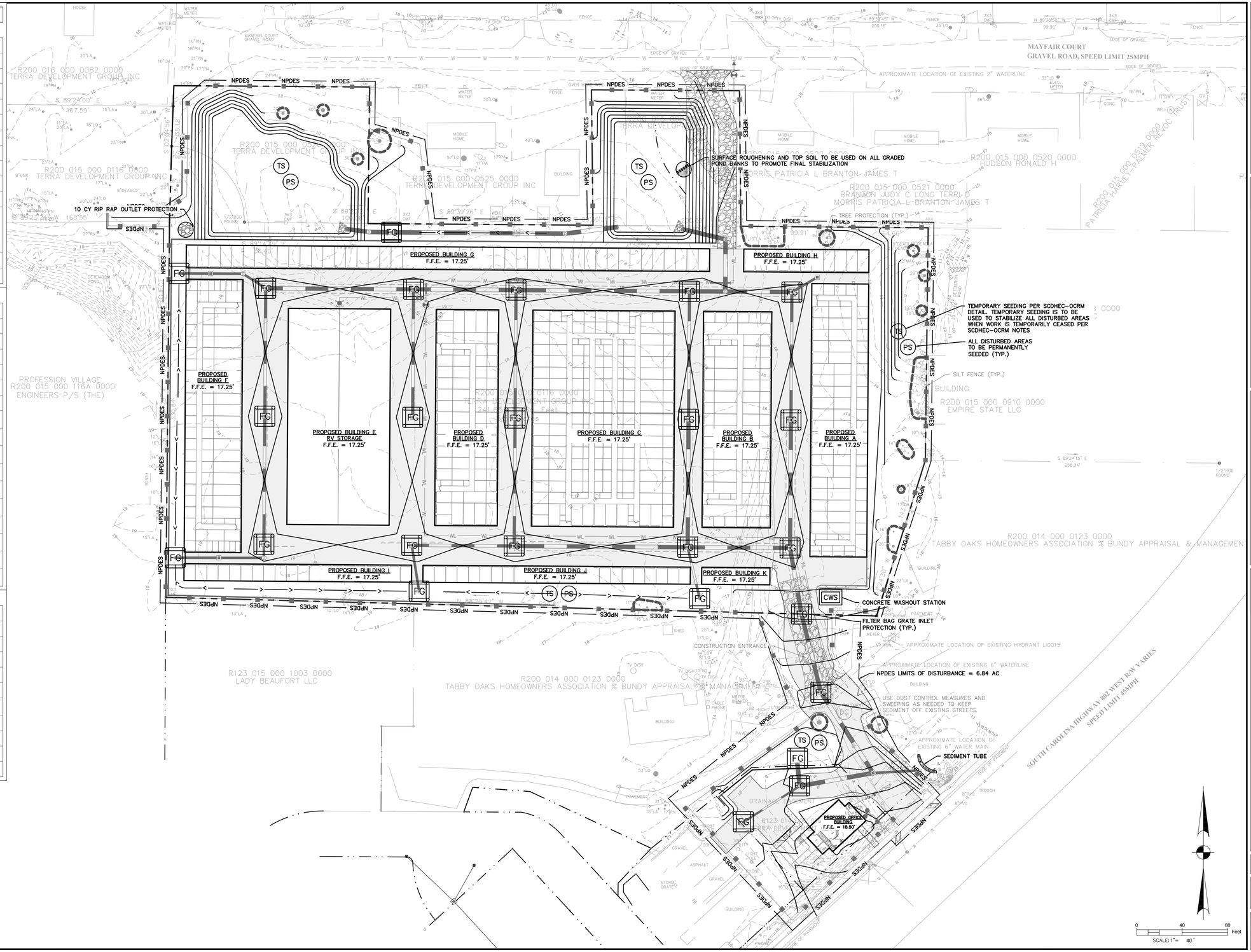
SURFACE ROUGHENING:	
TOPSOILING:	
TEMPORARY SEEDING:	TS
MULCHING:	M
ECB OR TRM:	
FGM:	FGM
BFM:	BFM
PERMANENT SEEDING:	PS
SODDING:	SO
RIPRAP:	
OUTLET PROTECTION:	RIPRAP ECB or TRM
DUST CONTROL:	DC
POLYACRYLAMIDE (PAM):	PAM

SEDIMENT CONTROL

SEDIMENT BASIN:	
TEMPORARY SEDIMENT TRAP:	
ROCK SEDIMENT DIKE:	
ROCK CHECK DAM:	OR
SEDIMENT TUBE:	
SILT FENCE:	
REINFORCED SILT FENCE:	
TYPE A–FABRIC INLET PROTECTION:	A
TYPE A–SEDIMENT TUBE INLET PROTECTION:	A
TYPE B – WIRE MESH AND STONE DROP INLET PROTECTION:	B
TYPE C – BLOCK AND GRAVEL INLET PROTECTION:	C
TYPE D – RIGID INLET FILTERS:	D
TYPE E – SURFACE COURSE CURB INLET FILTER:	E
TYPE F – INLET TUBE:	F
TYPE FC – FILTER BAG CURB INLET PROTECTION:	FC
TYPE FB – FILTER BAG CURB INLET PROTECTION:	FB
CONCRETE WASHOUT	CWS

RUNOFF CONVEYANCE MEASURES

VEGETATED CHANNELS:	
RIPRAP–LINED CHANNELS:	
ECB OR TRM–LINED CHANNELS:	
PAVED CHANNELS:	PC PC PC
PIPE SLOPE DRAINS:	
TEMPORARY STREAM CROSSING:	
TEMPORARY DIVERSION DITCH OR SWALE:	TD TD
PERMANENT DIVERSION DITCH:	PD PD
DIVERSION DIKE OR BERM:	DD DB
LEVEL SPREADER:	
SUBSURFACE DRAIN:	SSD SSD



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NO.	DESCRIPTION	DATE
1	PLAN REVISIONS	
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AAA STORAGE CITY
BEAUFORT, SOUTH CAROLINA

LADYS ISLAND STORAGE, LLC
BEAUFORT, SOUTH CAROLINA

INTERMEDIATE & FINAL EROSION CONTROL PLAN

VERTICAL DATUM: NGVD29

PROJECT #:	190309
DATE:	05/11/21
DESIGNED BY:	JCH
CHECKED BY:	CPB

SHEET
C801

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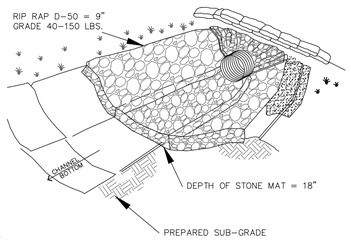
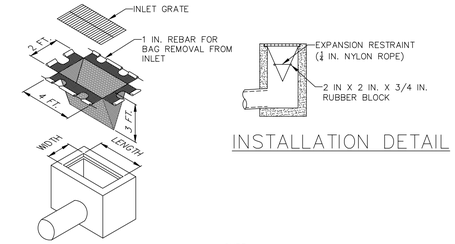


NOTES:

1. PLACE ALL RIP RAP ON 8 OUNCE NON-WOVEN FILTER CLOTH.
2. STAKING OF FILTER CLOTH PER MANUFACTURER'S SPECIFICATIONS.
3. LENGTH OF OUTLET STABILIZATION = 8 TIMES PIPE DIA.
   TOP WIDTH OF OUTLET STABILIZATION = 3 TIMES PIPE DIA.
   BOTTOM WIDTH OF OUTLET STABILIZATION = 6 TIMES PIPE DIA.

RIP RAP OUTLET STABILIZATION DETAIL

DETAIL #02370-009



INSTALLATION DETAIL

ISOMETRIC VIEW

SECTION VIEW

PLAN VIEW

NOTES:

MAXIMUM DRAINAGE AREA = 1/2 ACRE.

INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

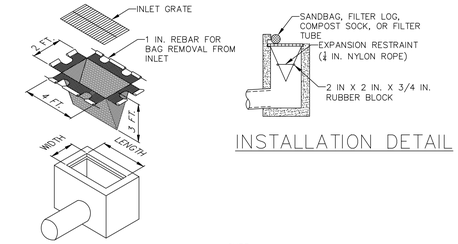
ROLLED EARTHEN BERM SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. SIX INCH MINIMUM HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT. AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS, A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.

INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE OF ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

FILTER BAG GRATE INLET PROTECTION

NO SCALE



INSTALLATION DETAIL

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PLAN VIEW

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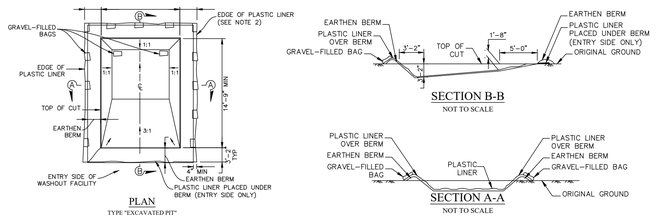
DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

FILTER BAG CURB INLET PROTECTION

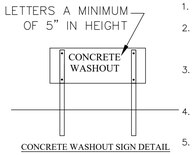
NO SCALE

EXCAVATED PIT CONCRETE WASHOUT



NOTES:

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. INSTALL CONCRETE WASHOUT SIGN (24"X24", MINIMUM) WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. TEMPORARY WASHOUT AREA MUST BE AT LEAST 50' FROM A STORM DRAIN, CREEK BANK OR PERIMETER CONTROL.
4. CLEAN OUT CONCRETE WASHOUT AREA WHEN 50% FULL.
5. THE KEY TO FUNCTIONAL CONCRETE WASHOUTS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR CLEAN OUT.
6. SILT FENCE SHALL BE INSTALLED AROUND PERIMETER OF CONCRETE WASHOUT AREA EXCEPT FOR THE SIDE UTILIZED FOR ACCESSING THE WASHOUT.
7. A ROCK CONSTRUCTION ENTRANCE MAY BE NECESSARY ALONG ONE SIDE OF THE WASHOUT TO PROVIDE VEHICLE ACCESS.



CONCRETE WASHOUT SIGN DETAIL

CWS

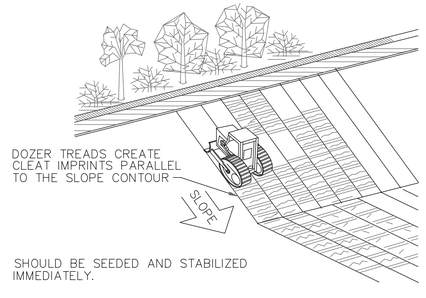
South Carolina Department of Health and Environmental Control

CONCRETE WASHOUT

EXCAVATED PIT

STANDARD DRAWING NO. RC-08 PAGE 1 of 1

NOT TO SCALE — FEBRUARY 2014 DATE



TRACKING

South Carolina Department of Health and Environmental Control

TRACKING

STANDARD DRAWING NO. EC-01 Page 1

APPROVED BY: _____ SCDHEC — AUGUST, 2005 DATE

TEMPORARY SEEDING – COASTAL

SPECIES	LBS/AC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SANDY, DROUGHTY SITES													
BROWNTOP MILLET	40 LBS/AC												
RYE, GRAIN	56 LBS/AC												
RYEGRASS	50 LBS/AC												
WELL DRAINED, CLAYEY/LOAMEY SITES													
BROWNTOP MILLET OR JAPANESE MILLET	40 LBS/AC												
RYE, GRAIN OR OATS	56 LBS/AC 75 LBS/AC												
RYEGRASS	50 LBS/AC												

TS TEMPORARY SEEDING - COASTAL

DETAIL 02370-011

PERMANENT SEEDING – COASTAL

SPECIES	LBS/AC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SANDY, DROUGHTY SITES													
BROWNTOP MILLET BAHIAGRASS	10 LBS/AC 40 LBS/AC												
BROWNTOP MILLET BAHIAGRASS SERICEA LESPEDEZA	10 LBS/AC 30 LBS/AC 40 LBS/AC												
BROWNTOP MILLET ATLANTIC COASTAL PANICGRASS	10 LBS/AC 15 LBS/AC PLS												
BROWNTOP MILLET SWITCHGRASS (ALAMO) LITTLE BLUESTEM SERICEA LESPEDEZA	10 LBS/AC 8 LBS/AC PLS 4 LBS/AC 20 LBS/AC												
BROWNTOP MILLET WEEPING LOVEGRASS	10 LBS/AC 8 LBS/AC												
WELL DRAINED, CLAYEY/LOAMEY SITES													
BROWNTOP MILLET BAHIAGRASS	10 LBS/AC 40 LBS/AC												
RYE, GRAIN BAHIAGRASS CLOVER, CRIMSON (ANNUAL)	10 LBS/AC 40 LBS/AC 5 LBS/AC												
BROWNTOP MILLET BAHIAGRASS SERICEA LESPEDEZA	10 LBS/AC 30 LBS/AC 40 LBS/AC												
BROWNTOP MILLET BERMUDA, COMMON SERICEA LESPEDEZA	10 LBS/AC 10 LBS/AC 40 LBS/AC												
BROWNTOP MILLET BERMUDA, COMMON KOBE LESPEDEZA (ANNUAL)	10 LBS/AC 12 LBS/AC 10 LBS/AC												
BROWNTOP MILLET BAHIAGRASS BERMUDA, COMMON SERICEA LESPEDEZA	10 LBS/AC 20 LBS/AC 6 LBS/AC 40 LBS/AC												
BROWNTOP MILLET SWITCHGRASS LITTLE BLUESTEM INDIANGRASS	10 LBS/AC 8 LBS/AC PLS 3 LBS/AC PLS 3 LBS/AC PLS												

PS PERMANENT SEEDING - COASTAL

DETAIL 02370-010

SOUTH CAROLINA PROFESSIONAL ENGINEER — CHRISTOPHER P. CONNER — No. 36273 — LICENSED — 05/11/21

SOUTH CAROLINA — CERTIFICATE OF AUTHORIZATION — WARD EDWARDS, INC. — No. C00152

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AAA STORAGE CITY
BEAUFORT, SOUTH CAROLINA

LADY'S ISLAND STORAGE, LLC
BEAUFORT, SOUTH CAROLINA

INTERMEDIATE & FINAL
EROSION CONTROL DETAILS

VERTICAL DATUM: NGVD29

PROJECT #:	190309
DATE:	05/11/21
DESIGNED BY:	JCH
CHECKED BY:	CPB

SHEET
C802

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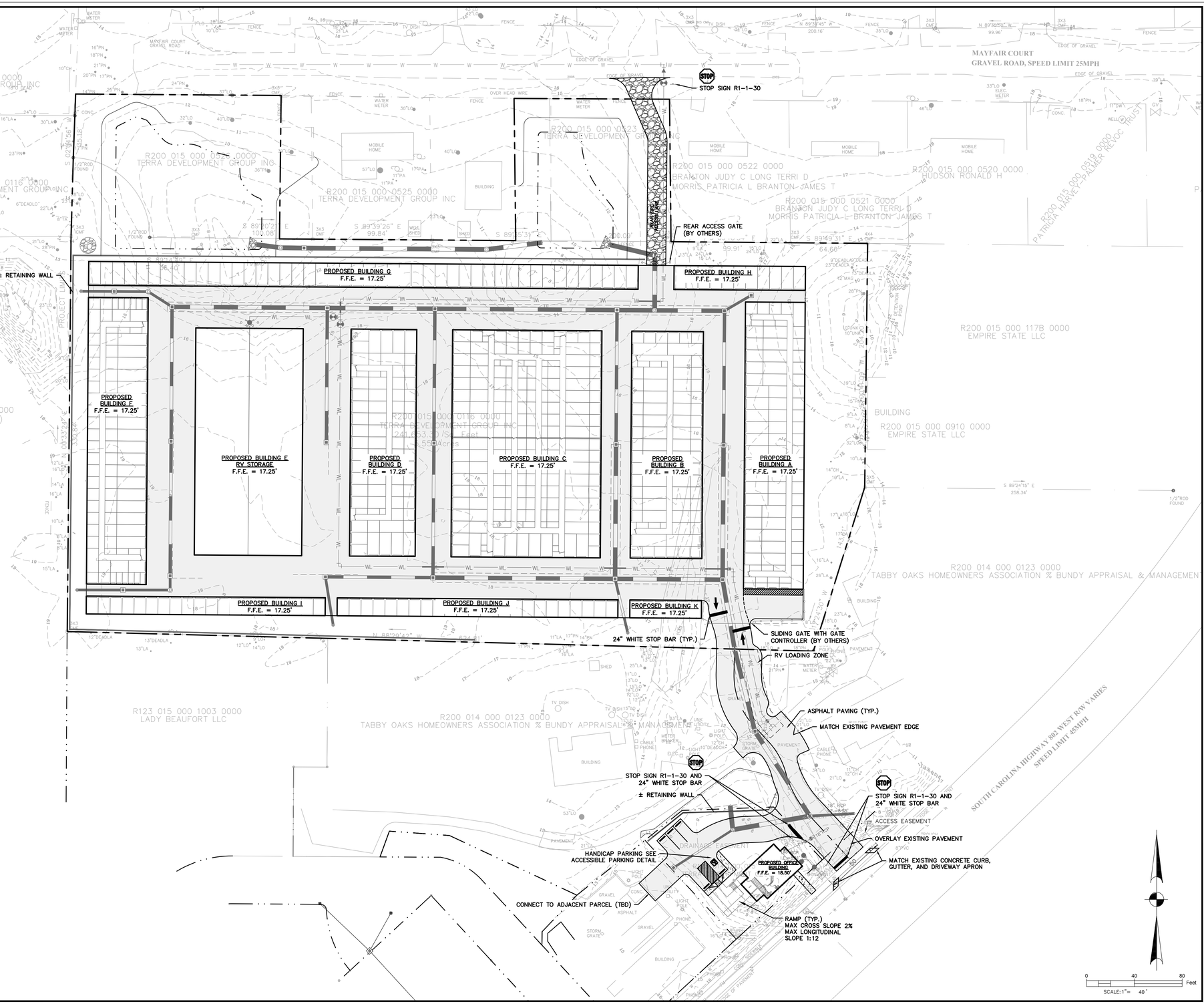
PAVING HATCH LEGEND

PROPOSED CONCRETE PAVING	
PROPOSED SIDEWALK/ CONCRETE	
REINFORCED GRASS FIRE LANE	
PROPOSED AGGREGATE/ STONES	
PROPOSED ASPHALT (LIGHT DUTY)	
PROPOSED ASPHALT (HEAVY DUTY)	
MILL & OVERLAY ASPHALT	
PROPOSED CONCRETE PAVERS	



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AAA STORAGE CITY
BEAUFORT, SOUTH CAROLINA

LADYS ISLAND STORAGE, LLC
BEAUFORT, SOUTH CAROLINA

PAVING PLAN

VERTICAL DATUM: NGVD29

PROJECT #:	190309
DATE:	03/11/21
DESIGNED BY:	JCH
CHECKED BY:	CPB

SHEET
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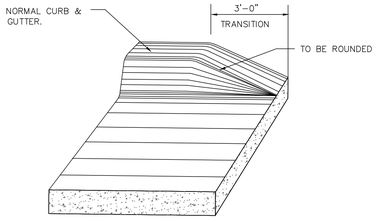
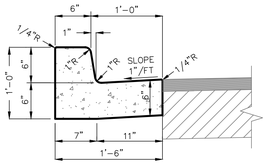
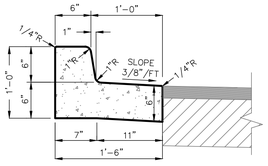


CURB AND GUTTER TRANSITION DETAIL

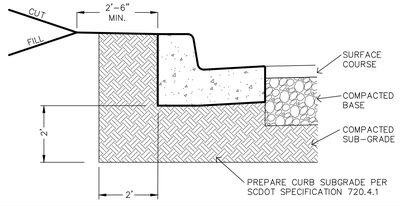
DETAIL 03300-020



NORMAL GUTTER



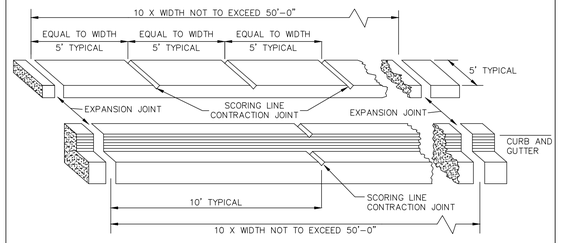
PITCHED GUTTER



NOTES:
1. USE NORMAL OR PITCHED GUTTER AS REQUIRED TO MATCH PAVING SLOPE.
2. ALL CONCRETE SHALL BE 3,000 PSI.
3. PROVIDE CONTRACTION JOINTS EVERY TEN FEET (10').
4. PROVIDE EXPANSION JOINTS EVERY FIFTY (50') FEET AND AT ALL TANGENT POINTS.
5. PROVIDE EXPANSION JOINTS WHERE CURB ABUTS SIDEWALKS OR OTHER RIGID STRUCTURES.
6. EXPANSION JOINTS SHALL BE 1/2" WITH PRE-MOLDED JOINT FILLER.
7. TOOL ALL EXPOSED EDGES & JOINTS TO 1/4" RADIUS.
8. PROVIDE LIGHT BROOM FINISH.

18" CURB AND GUTTER

DETAIL 03300-004A



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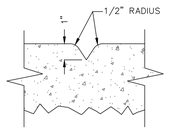
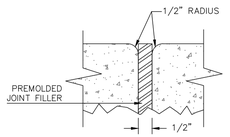


CONTRACTION JOINT
SCORING LINE

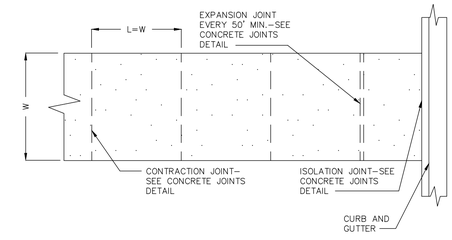


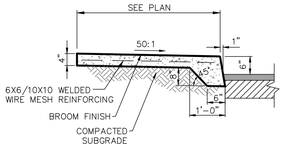
EXPANSION JOINT

NOTES:
1. EXPANSION JOINTS, 1/2 INCH THICK, SHALL BE PLACED IN THE SIDEWALK AND CURBING AT THE POINT OF CURVATURE (PC) AND POINT OF TANGENCY (PT) OF ALL CURVES, AT THE OUTER EDGES OF DRIVEWAYS, AND AT UNIFORM INTERVALS AS SHOWN. EXPANSION JOINTS SHALL MEET SCDOT SPECIFICATION SECTION 702.2.2.1.
2. TRANSVERSE SCORING LINES (CONTRACTION JOINTS) IN THE SIDEWALK SHALL BE PLACED BETWEEN EXPANSION JOINTS AT UNIFORM INTERVALS EQUAL TO THE WIDTH OF THE WALK AS SHOWN.
3. LONGITUDINAL SCORING LINES WILL BE REQUIRED IN WALKS WIDER THAN 5 FEET OR AS DIRECTED BY THE ENGINEER.
4. TRANSVERSE CONTRACTION JOINTS IN THE CURBING SHALL BE PLACED BETWEEN EXPANSION JOINTS AT UNIFORM 10' INTERVALS.
5. TRANSVERSE AND LONGITUDINAL SCORING LINES SHALL BE A DEPTH OF 1" AND NOT LESS THAN 1/4 INCH OR MORE THAN 1/2 INCH IN WIDTH. THE CORNERS OF THE SCORING LINES SHALL HAVE A 1/2 INCH MINIMUM RADII.
6. JOINTS IN THE CURB AND GUTTER SHALL ALIGN WITH CORRESPONDING JOINTS IN THE SIDEWALK.

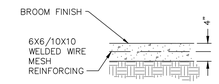
EXPANSION JOINTS AND SCORING LINES

DETAIL 03300-007A





TURNED DOWN SIDEWALK

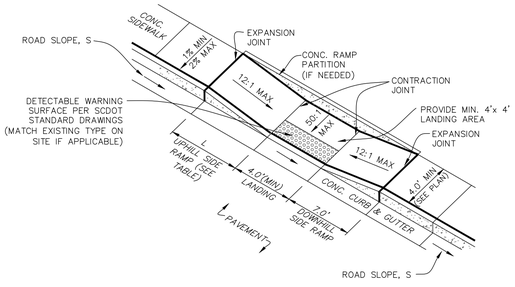


REINFORCED SIDEWALK

NOTES:
1. W = VARIES, REFER TO STAKING PLAN FILL IN BASED ON SITE PLAN
2. L = WIDTH OF PAVING UNLESS OTHERWISE INDICATED ON PLAN.
3. SLOPE = AS INDICATED ON GRADING PLAN, NOT TO EXCEED 2% CROSS OF 8.33% LONGITUDINAL
4. ALL CONCRETE SHALL BE CLASS A 3000 PSI
5. FINISH BROOM WITH HAND TOOLED JOINTS AND EDGES.

CONCRETE SIDEWALK

DETAIL 03300-006

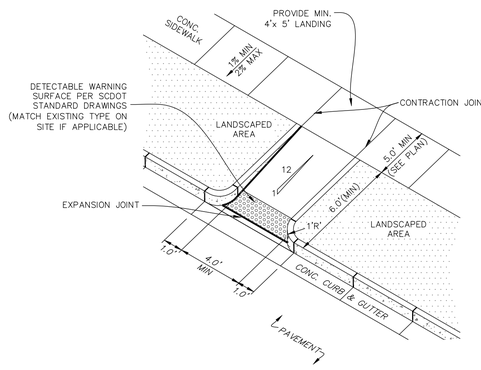


ROAD SLOPE, S (%)	L, (UPHILL SIDE RAMP), [FT]
S ≤ 1%	7'-0"
1% < S ≤ 3%	10'-0"
S > 3%	15'-0"

NOTES:
1. ALL CONCRETE SHALL BE CLASS A, 3,000 PSI.
2. REFER TO STANDARD DETAILS FOR SIDEWALKS, CURB & GUTTER, AND CONCRETE JOINTS.
3. CURB RAMP SHALL BE BROOM-FINISHED TO PROVIDE A ROUGH, SKID-RESISTANT SURFACE. ALL JOINTS AND EDGES SHALL BE HAND TOOLED.
4. GUTTER FLOW LINE AND PLAN PROFILE SHALL BE MAINTAINED THROUGH THE RAMP AREA. THE SURFACE OF THE RAMP SHALL BE FLUSH WITH THE FLOWLINE OF THE CURB AND GUTTER.
5. PLACE DETECTABLE WARNING IN LINE AND FLUSH WITH BACK OF "DROPPED CURB".
6. SIDE SLOPES OF THE RAMP ARE NOT TO EXCEED 12:1 (8.33%) AT ANY LOCATION WHERE PEDESTRIAN TRAFFIC CROSSES THE RAMP.
7. CROSS SLOPES OF SIDEWALK, RAMP, AND LANDING TO BE BETWEEN 100:1 (1%) AND 50:1 (2%).

CONCRETE CURB RAMP TYPE-B

DETAIL 03300-029A



NOTES:
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2. REFER TO STANDARD DETAILS FOR SIDEWALKS, CURB & GUTTER, AND CONCRETE JOINTS.
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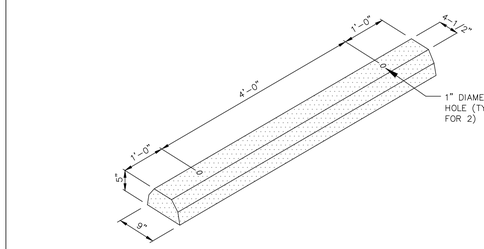
6. SIDE SLOPES OF THE RAMP ARE NOT TO EXCEED 12:1 (8.33%) AT ANY LOCATION WHERE PEDESTRIAN TRAFFIC CROSSES THE RAMP.
7. CROSS SLOPES OF SIDEWALK, RAMP, AND LANDING TO BE BETWEEN 100:1 (1%) AND 50:1 (2%).

CONCRETE CURB RAMP- TYPE D

DETAIL 03300-033



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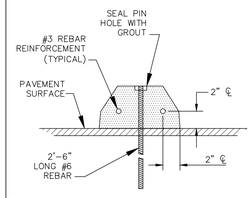
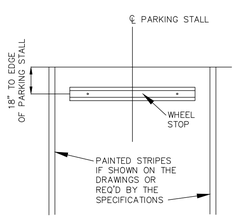


SECTION

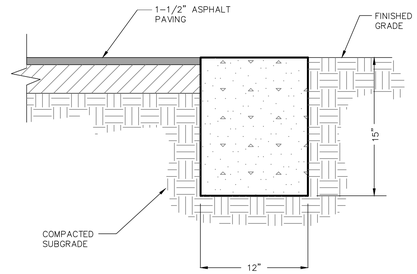


INSTALLATION PLAN

NOTES:
1. WHEEL STOPS SHALL BE STEEL REINFORCED PRECAST UNITS CONSISTING OF SCDOT CLASS 3000 CONCRETE, MINIMUM. ALTERNATE MATERIAL COMPOSITION MUST BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
2. WHEEL STOPS SHALL BE INSTALLED PERPENDICULAR TO PARKING STALL AND SHALL BE PLACED A MINIMUM OF 18" FROM END OF PARKING STALL OR OBSTRUCTION.
3. ANCHORING PINS SHALL BE DRIVEN FLUSH TO THE TOP OF THE WHEEL STOP AND PIN HOLES SHALL BE GROUTED UPON INSTALLATION.

PRECAST CONCRETE WHEEL STOP

NOTES:
1. ALL CONCRETE SHALL BE 3,000 PSI.
2. PROVIDE CONTRACTION JOINTS EVERY TEN FEET (10').
3. PROVIDE EXPANSION JOINTS EVERY FIFTY (50') FEET AND AT ALL TANGENT POINTS.
4. PROVIDE EXPANSION JOINTS WHERE CURB ABUTS SIDEWALKS OR OTHER RIGID STRUCTURES.
5. EXPANSION JOINTS SHALL BE 1/2" WITH PRE-MOLDED JOINT FILLER.
6. TOOL ALL EXPOSED EDGES & JOINTS TO 1/4" RADIUS.
7. PROVIDE LIGHT BROOM FINISH.



FLUSH HEADER CURB

DETAIL 03300-005

NOT FOR CONSTRUCTION

SOUTH CAROLINA PROFESSIONAL ENGINEER JOHN CONNOR BLANTON No. 36273 LICENSED 09/11/21

SOUTH CAROLINA NOT AUTHORIZATION CERTIFICATE OF AUTHORIZATION WARD EDWARDS, INC. No. C00152

NO.	DESCRIPTION	DATE
1	PLAN REVISIONS	
2		
3		
4		
5		
6		
7		

Ward Edwards ENGINEERING
P.O. BOX 381, BLUFFTON, SOUTH CAROLINA 29910
PH (843) 837-5250 / FAX (843) 837-2558
WWW.WARDEDWARDS.COM

AAA STORAGE CITY
BEAUFORT, SOUTH CAROLINA

LADY'S ISLAND STORAGE, LLC
BEAUFORT, SOUTH CAROLINA

PAVING DETAILS

VERTICAL DATUM: NGVD29

PROJECT #:	190309
DATE:	05/11/21
DESIGNED BY:	JCH
CHECKED BY:	CPB

SHEET
C902

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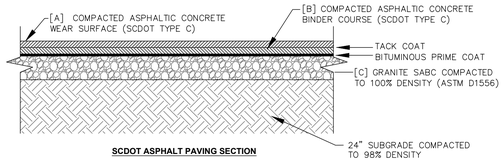


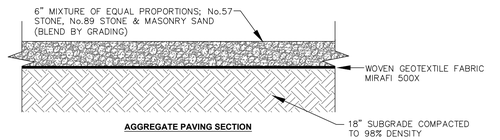
SCDOT ASPHALT PAVING SECTION

Traffic Classes		Subgrade		Pavement course and Thicknesses (inches)		
				Surface [A]	Intermediate [B]	Base [C]
Class 1	≤ 5 trucks/day	Good		2" Surface C	3" Int. C/Base A or B	–
			✓	2" Surface C	–	6" GAB
		Poor		2" Surface C	2" Int. C/Surface C	3" Base A/B
				2" Surface C	2" Int. C/Surface C	6" GAB
Class 2	≤ 200 trucks/day	Good		2" Surface C/B	3" Int. C	4" Base A/B
				2" Surface C/B	3" Int. C	8" GAB
		Poor		2" Surface C/B	3" Int. C	6" Base A/B
				2" Surface C/B	2" Int. C/Surface C	3" Base B and 8" GAB
				2" Surface C/B	4" Int. C*	8"GAB

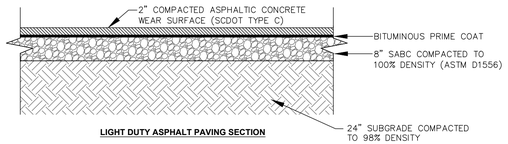
Notation
- Surface C : Type C Asphalt Surface Course
- Surface C/B : Type C or Type B Asphalt Surface Course
- Int. C : Type C Asphalt Intermediate Course
- Base B : Type B Asphalt Base Course
- GAB : Graded Aggregate

Base Notes
- Subgrade should be proofrolled if accessible by equipment.
- Remove and replace safety widening if present and not full depth.
- Resurface adjacent travel way. ▫
- Conduct full depth patching or other rehabilitation on adjacent travel way if adding significant traffic. Consult OMR if necessary.
- A minimum of 8 inches mix in place soil cement or synthetic CMRB may be substituted for Class 1 Base.
- A minimum of 10 inches mix in place soil cement or synthetic CMRB may be substituted for Class 2 Base.
- Soil-cement maximum cement content 6% and compressive strength 300 – 450 psi. Designer shall confirm suitability of soil modification.
- Synthetic CMRB shall consist of 50% - 75% thickness GABC or RAP. 450 – 600 psi mixture design. Maximum cement content 6%. Designer shall confirm suitability of soil modification.

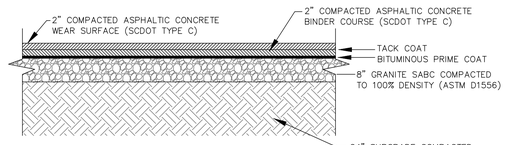
TYPICAL SCDOT PAVING SECTION



AGGREGATE PAVING SECTION



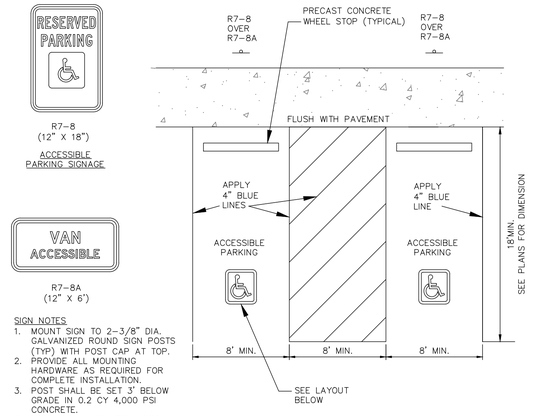
LIGHT DUTY ASPHALT PAVING SECTION



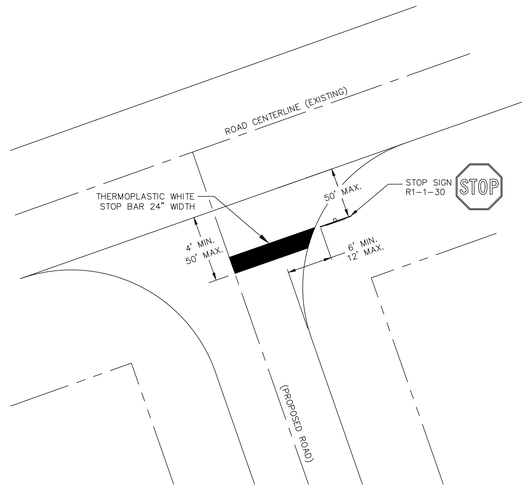
HEAVY DUTY ASPHALT PAVING SECTION

TYPICAL PAVING SECTIONS

DETAIL 02740-016

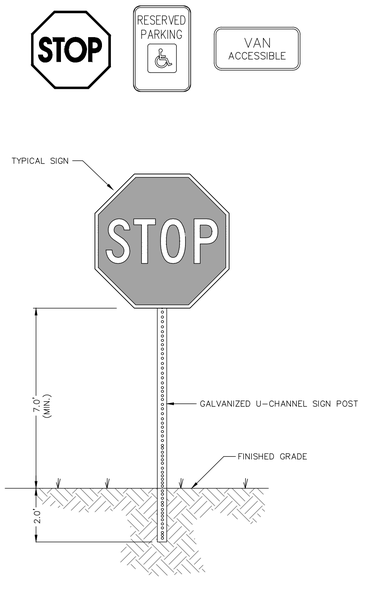


ACCESSIBLE PARKING DETAIL



TYPICAL STOP SIGN & STOP BAR STRIPING AT INTERSECTION

DETAIL #02740-018



NOTE:
ALL SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (LATEST EDITION) AND THE DEPARTMENT OF TRANSPORTATION STANDARDS AT THE LOCATIONS SHOWN ON THE PLANS.

TYPICAL SIGNAGE

DETAIL #02890-002A

NOT FOR CONSTRUCTION

NO.	DESCRIPTION	DATE
7		
6		
5		
4		
3		
2		
1	PLAN REVISIONS	

Ward Edwards ENGINEERING
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WWW.WARDEDWARDS.COM

AAA STORAGE CITY
BEAUFORT, SOUTH CAROLINA
LADY'S ISLAND STORAGE, LLC
BEAUFORT, SOUTH CAROLINA

PAVING DETAILS

VERTICAL DATUM: NGVD29

PROJECT #:	190309
DATE:	05/11/21
DESIGNED BY:	JCH
CHECKED BY:	CPB

SHEET
C903

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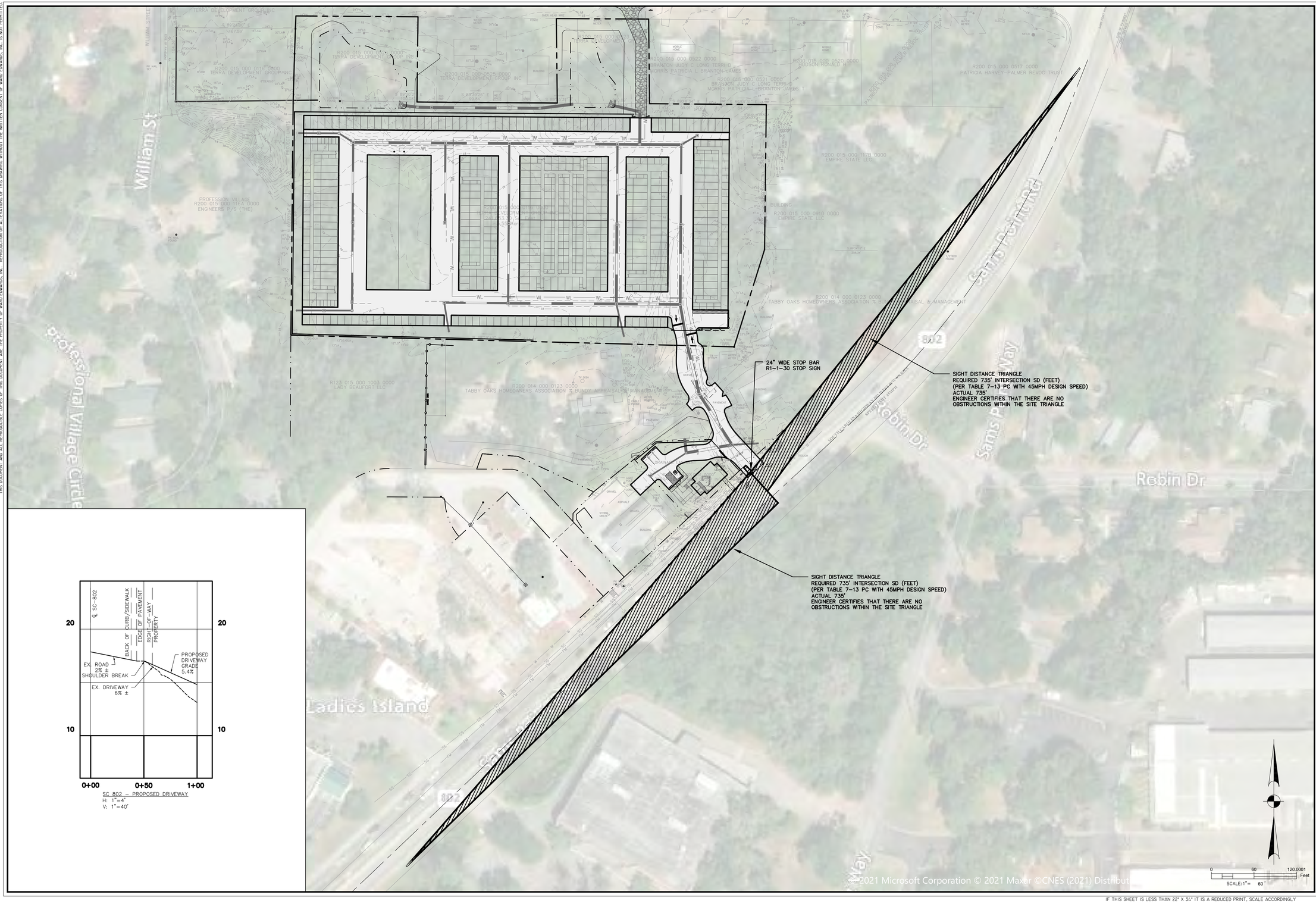

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SOUTH CAROLINA PROFESSIONAL ENGINEER LICENSE No. 36273 CONOR P. BLAINEY

SOUTH CAROLINA WARD EDWARDS, INC. No. C00152 CERTIFICATE OF AUTHORIZATION

NO.	DESCRIPTION	DATE
7		
6		
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PLAN REVISIONS

Ward Edwards
ENGINEERING
P.O. BOX 381, BLUFFTON, SOUTH CAROLINA 29910
PH (843) 837-5250 / FAX (843) 837-2558
WWW.WARDEDWARDS.COM

AAA STORAGE CITY
BEAUFORT, SOUTH CAROLINA

LADYS ISLAND STORAGE, LLC
BEAUFORT, SOUTH CAROLINA

SCDOT SIGHT DISTANCE EXHIBIT

VERTICAL DATUM:
NGVD29

PROJECT #:	190309
DATE:	03/11/21
DESIGNED BY:	JCH
CHECKED BY:	CPB

SHEET
C1001

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SHEET
C1002

PROJECT # 193029
DATE 03/17/21
DESIGNED BY: CPB
DRAWN BY: CPB
CHECKED BY: CPB

HORIZONTAL DATUM
NGVD29

AAA STORAGE CITY
BEAUFORT, SOUTH CAROLINA

LADYS ISLAND STORAGE, LLC
BEAUFORT, SOUTH CAROLINA

SCDOT DETAILS

Ward Edwards ENGINEERING
P.O. BOX 381, BLUFFTON, SOUTH CAROLINA 29910
PH (843) 837-5250 / FAX (843) 837-2558
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NO.	DESCRIPTION	DATE
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PLAN REVISIONS

SOUTH CAROLINA
WARD EDWARDS, INC.
No. C00152
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
PROFESSIONAL ENGINEER
No. 36273
LICENSE
05/11/21
CONOR P. BLANEY

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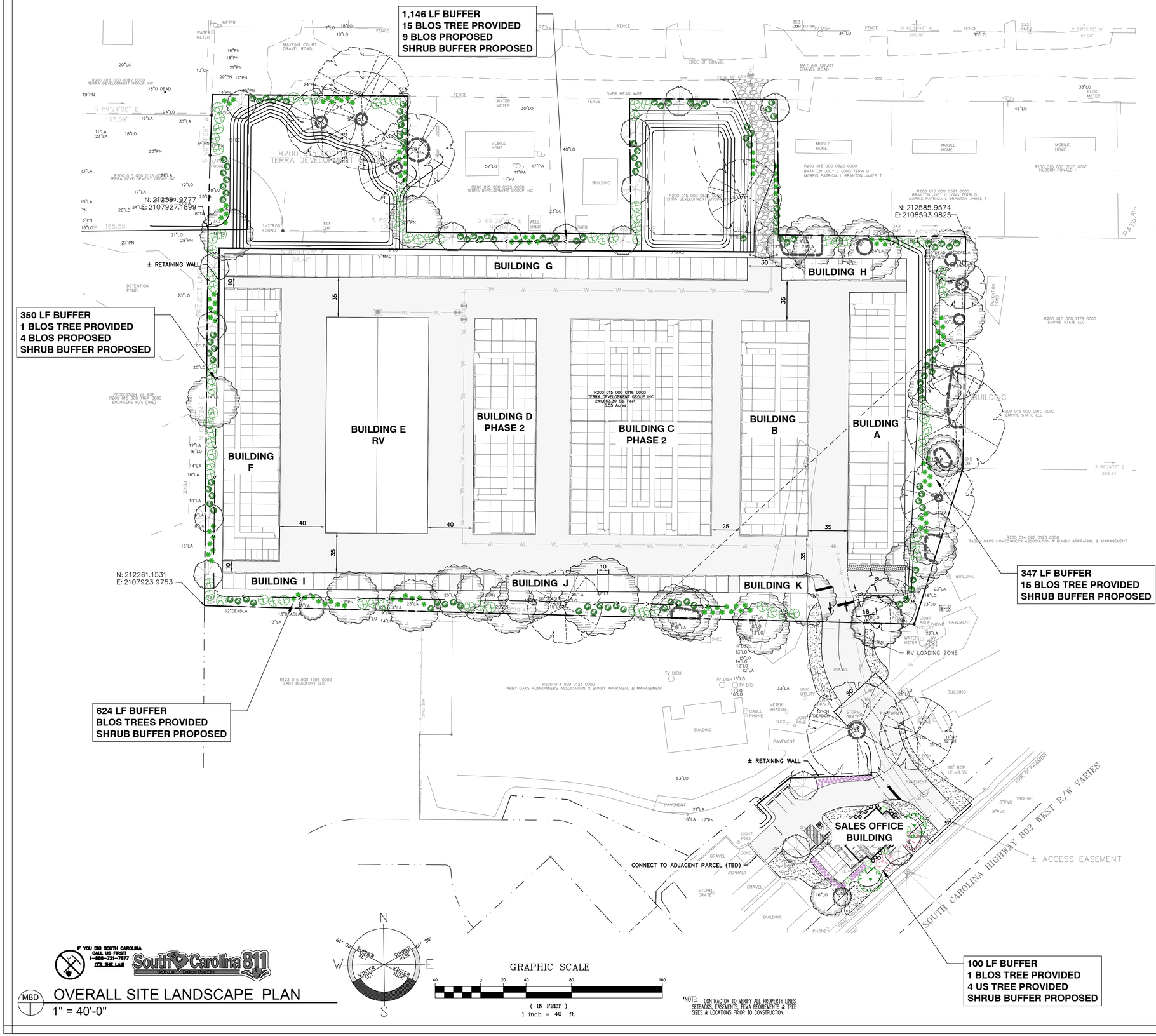

LANDSCAPE NOTES

PLANTING:

1. MATERIAL LIST WAS PREPARED FOR ESTIMATING PURPOSES. CONTRACTOR SHALL MAKE OWN QUANTITY TAKE-OFF USING DRAWINGS AND SPECIFICATION, REPORTING PROMPTLY ANY DISCREPANCIES WHICH MAY EFFECT BIDDING.
2. ROOT TYPES MAY BE FREELY SUBSTITUTED IN CASE OF BALLED AND BURLAPPED OR CONTAINER GROWN, ALL OTHER SPECIFICATIONS TO REMAIN UNCHAINED.
3. CONTRACTOR TO VERIFY THAT ALL PLANT MATERIALS ARE AVAILABLE AS SPECIFIED WHEN PROPOSAL IS SUBMITTED.
4. SEE TREE, SHRUB, AND GROUNDCOVER PLANTING DETAILS AND SPECIAL PROVISIONS FOR PLANTING SPECIFICATIONS.
5. SOIL SHALL BE AMENDED BY CONTRACTOR AS INDICATED BY SOIL TEST TO ACHIEVE PROPER SOIL CONDITION.
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12. PLANT BE SHALL BE TESTED FOR Ph AND AMENDED PRIOR TO INSTALLATION.
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DRAINAGE:

SEE GRADE AND DRAINAGE PLAN FOR PROPOSED SITE DRAINAGE.

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*NOTE: CONTRACTOR TO VERIFY ALL PROPERTY LINES SETBACKS, EASEMENTS, FEMA REQUIREMENTS & TREE SIZES & LOCATIONS PRIOR TO CONSTRUCTION.

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IT'S THE LAW
South Carolina 811

MBD OVERALL SITE LANDSCAPE PLAN
1" = 40'-0"

State of South Carolina REGISTERED No. 1076 LANDSCAPE ARCHITECT JOHN MICHAEL BROCK

No.	Issue / Revision Description	Date
1	PER DRB COMMENTS	021821

CONCEPTUAL LANDSCAPE PLANS
FOR
AAA RESIDENTIAL STORAGE FACILITY
CITY OF BEAUFORT, SOUTH CAROLINA

M.B.D. M. BROCK DESIGNS, LLC
LANDSCAPE ARCHITECTURE - LAND PLANNING

J. M. BROCK
RLA
po box 358, port royal
south carolina, 29935
ph. 843.540.6407
mbrock@mbrockdesigns.com

Drawn By:	M. Brock
Drawn Date:	11.10.20
Chk'd By:	M. Brock
Project ID:	2010112

Conceptual Landscape Plan
Sheet No.
LS-101

SHEET 1 OF 7

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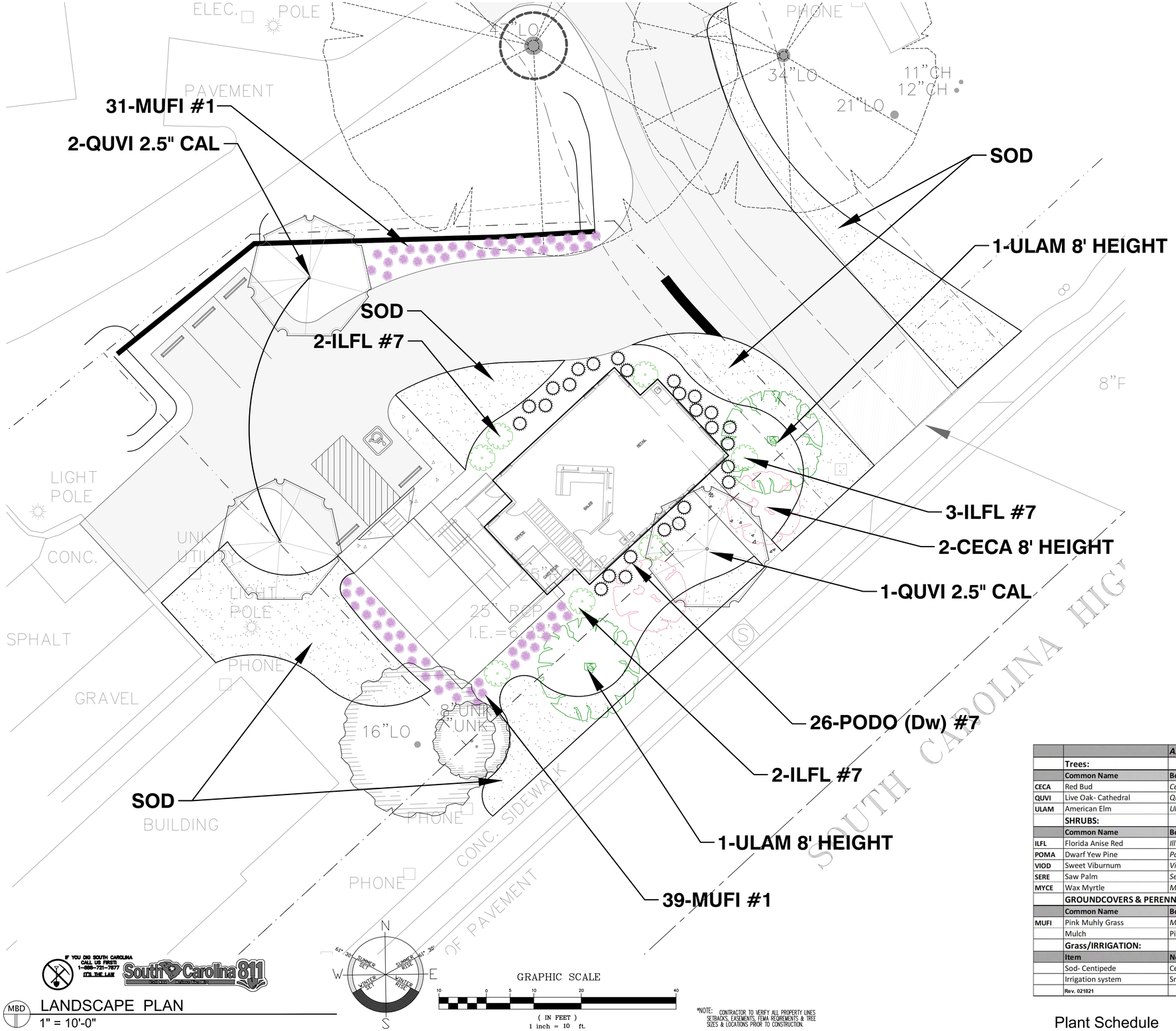

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South Carolina 811

MBD LANDSCAPE PLAN
1" = 10'-0"

N
W E
S
61° 30' SUMMER RISE
61° 30' SUMMER SET
WINTER RISE
WINTER SET

GRAPHIC SCALE
10 0 5 10 20 40
(IN FEET)
1 inch = 10 ft.

*NOTE: CONTRACTOR TO VERIFY ALL PROPERTY LINES, SETBACKS, EASEMENTS, FEMA REQUIREMENTS & TREE SIZES & LOCATIONS PRIOR TO CONSTRUCTION.

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		AAA Residential Storage Facility						
	Trees:							
	Common Name	**Botanical Name**	**Height**	**Spread**	**Caliper**	**Gallon**	**QTY**	**Unit**
CECA	Red Bud	*Cercis canadensis*	8'	6'	2.5"		2	Ea
QUVI	Live Oak- Cathedral	*Quercus viginiana 'Cathedral'*	10'		3.5"		13	Ea
ULAM	American Elm	*Ulmus americana*	10'	8'	2.5"		2	Ea.
	SHRUBS:							
	Common Name	**Botanical Name**	**Height**	**Spread**	**Caliper**	**Gallon**	**QTY**	**Unit**
ILFL	Florida Anise Red	*Illicum floridanum*	30"	30"		7	7	Ea.
POMA	Dwarf Yew Pine	*Podocarpus macrophyllus 'Pringles'*	30"	24"		7	26	Ea.
VIOD	Sweet Viburnum	*Viburnum suspensum*	30"	30"		7	110	Ea.
SERE	Saw Palm	*Serenoa repens*	30"	30"		7	102	Ea.
MYCE	Wax Myrtle	*Merica cerifera*	6'	5'		7	80	Ea.
	GROUNDCOVERS & PERENNIALS:							
	Common Name	**Botanical Name**	**Height**	**Spread**	**Caliper**	**Gallon**	**QTY**	**Unit**
MUFI	Pink Muhly Grass	*Muhlenbergia capillaris*	24"	24"		1	69	Ea.
	Mulch	Pine Straw					35,000	SF
	Grass/IRRIGATION:							
	Item	**Notes**					**QTY**	**Unit**
	Sod- Centipede	Centipede Sod					20,400	SF
	Irrigation system	Srpay Head for Sod & Drip Zones on shrubs and trees					15	Ea
	Rev. 021821							

Plant Schedule

State of South Carolina REGISTERED LANDSCAPE ARCHITECT No. 1076 JOHN MICHAEL BROCK

No.	Issue / Revision Description	Date
1	PER DRB COMMENTS	021821

CONCEPTUAL LANDSCAPE PLANS
FOR
AAA RESIDENTIAL STORAGE FACILITY
CITY OF BEAUFORT, SOUTH CAROLINA

M.B.D. M. BROCK DESIGNS, LLC
LANDSCAPE ARCHITECTURE - LAND PLANNING

J. M. BROCK
RLA
po box 358, port royal
south carolina, 29935
ph. 843.540.6407
mbrock@mbrockdesigns.com

Drawn By:	*M. Brock*
Drawn Date:	*11.10.20*
Chk'd By:	*M. Brock*
Project ID:	*2010112*

Conceptual Landscape Plan
Sheet No.
LS-102

SHEET 2 OF 7

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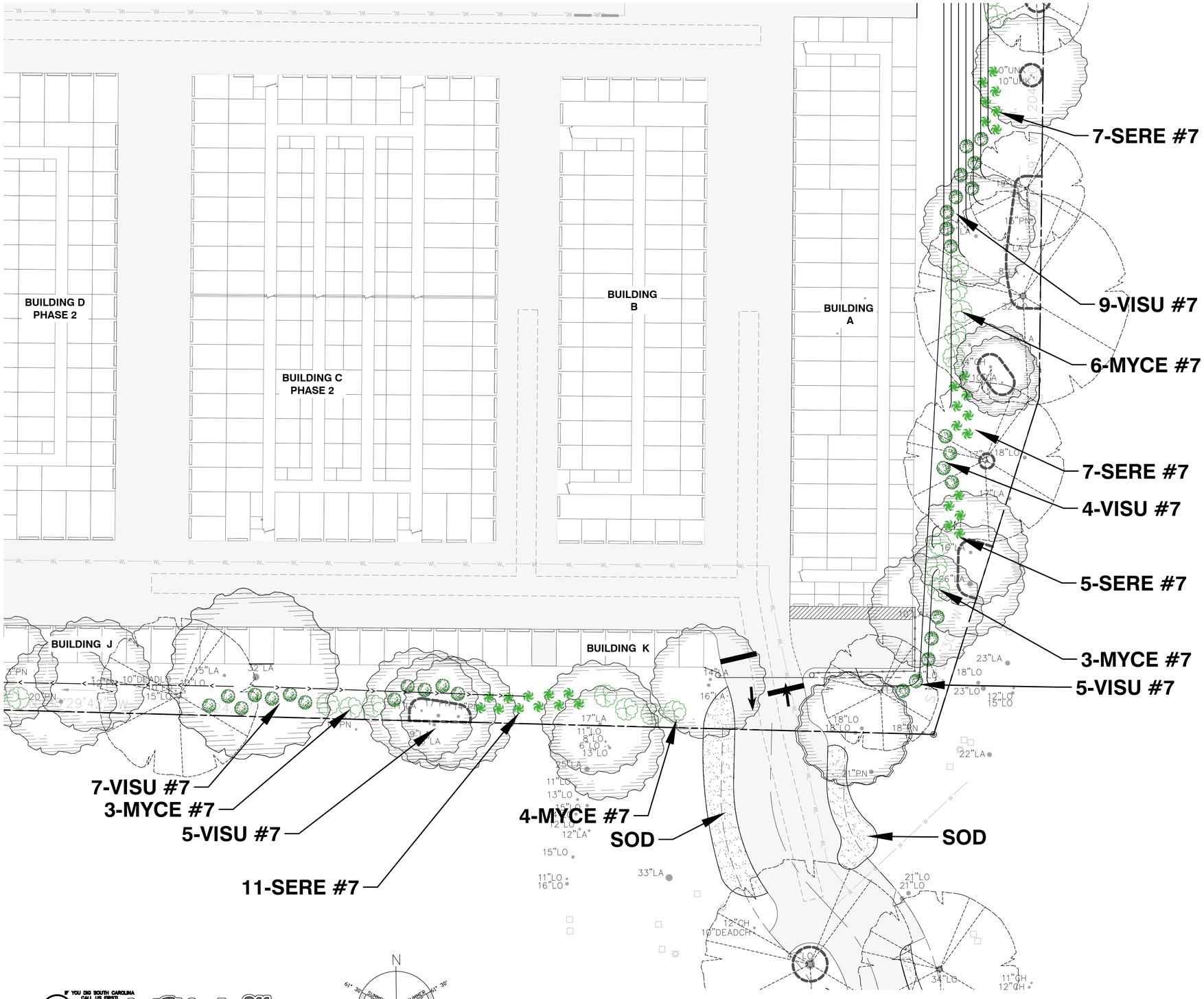

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4. SEE TREE, SHRUB, AND GROUNDCOVER PLANTING DETAILS AND SPECIAL PROVISIONS FOR PLANTING SPECIFICATIONS.
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MBD LANDSCAPE PLAN
1" = 10'-0"

N / E / S / W — SUMMER RISE 61°–30° — SUMMER SET 30°–61° — WINTER SET 61°–30° — WINTER RISE 30°–61°

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

*NOTE: CONTRACTOR TO VERIFY ALL PROPERTY LINES SETBACKS, EASEMENTS, FEMA REQIREMENTS & TREE SIZES & LOCATIONS PRIOR TO CONSTRUCTION.

Plant Schedule

State of South Carolina — REGISTERED — No. 1076 — LANDSCAPE ARCHITECT — JOHN MICHAEL BROCK

No.	Issue / Revision Description	Date
1	PER DRB COMMENTS	021821

CONCEPTUAL LANDSCAPE PLANS
FOR
AAA RESIDENTIAL STORAGE FACILITY
CITY OF BEAUFORT, SOUTH CAROLINA

M.B.D. M. BROCK DESIGNS, LLC — LANDSCAPE ARCHITECTURE – LAND PLANNING

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Chk'd By:	M. Brock
Project ID:	2010112

Conceptual Landscape Plan
Sheet No.
LS-103

SHEET 3 OF 7

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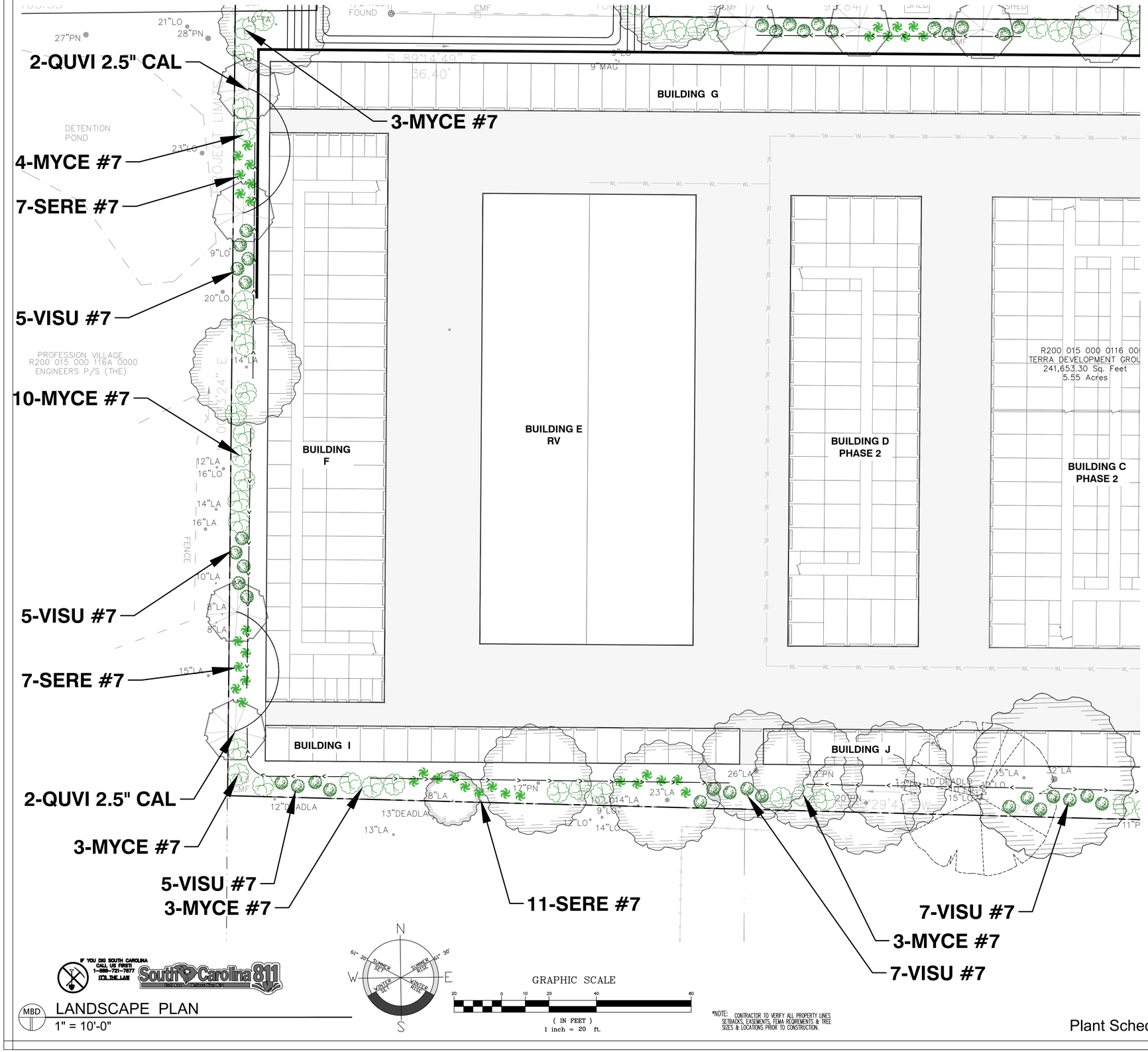

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REGISTERED
No. 1076
LANDSCAPE ARCHITECT
JOHN MICHAEL BROCK

No.	Issue / Revision Description	Date
1	PER DRB COMMENTS	02182

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Chk'd By:	M. Brock
Project ID:	2010112

Conceptual Landscape Plan
Sheet No.
LS-104

SHEET 4 OF 7

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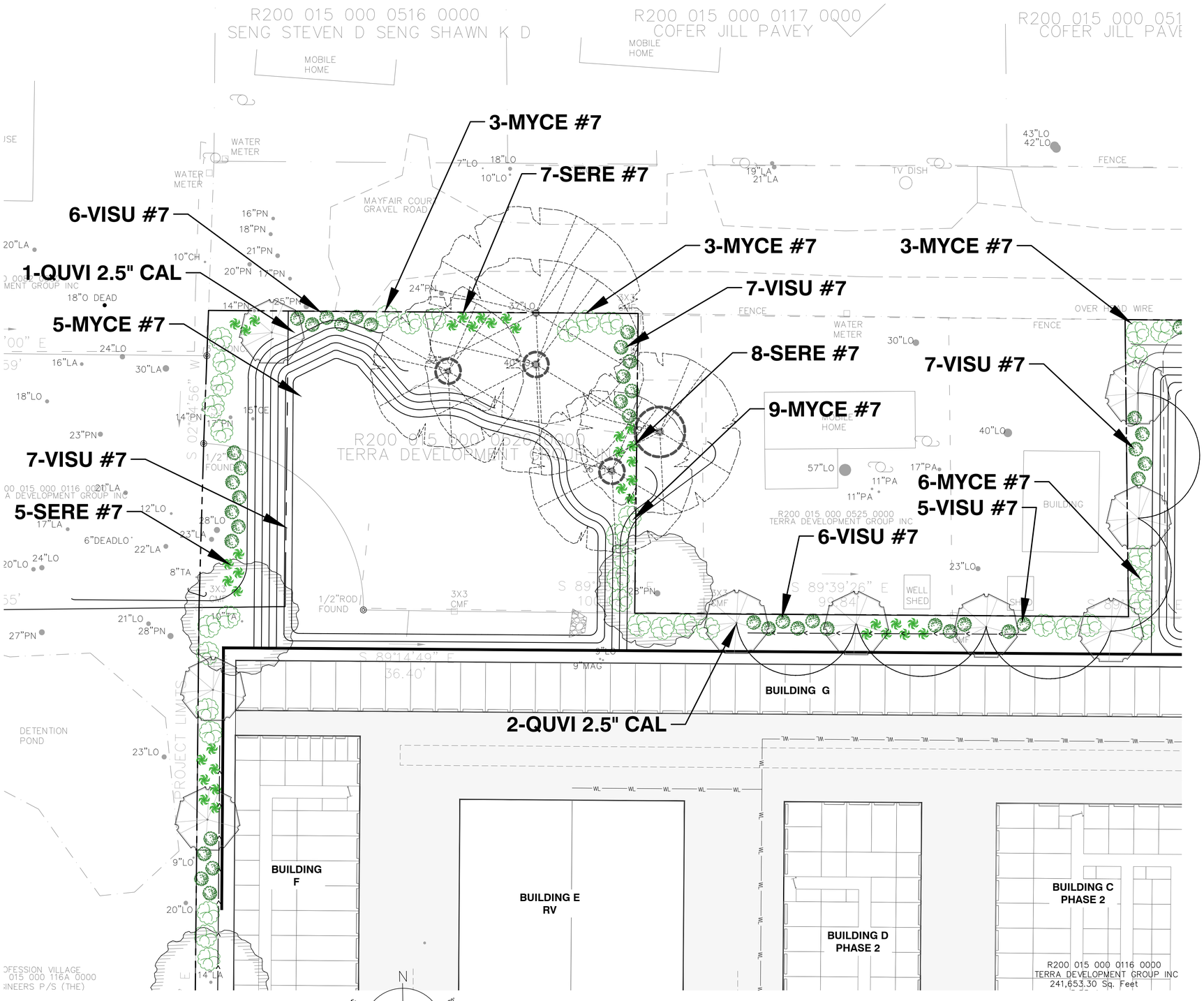

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State of South Carolina REGISTERED No. 1076 LANDSCAPE ARCHITECT JOHN MICHAEL BROCK

No.	Issue / Revision Description	Date
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CONCEPTUAL LANDSCAPE PLANS
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CITY OF BEAUFORT, SOUTH CAROLINA

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Drawn By:	M. Brock
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Conceptual Landscape Plan
Sheet No.
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SHEET 5 OF 7

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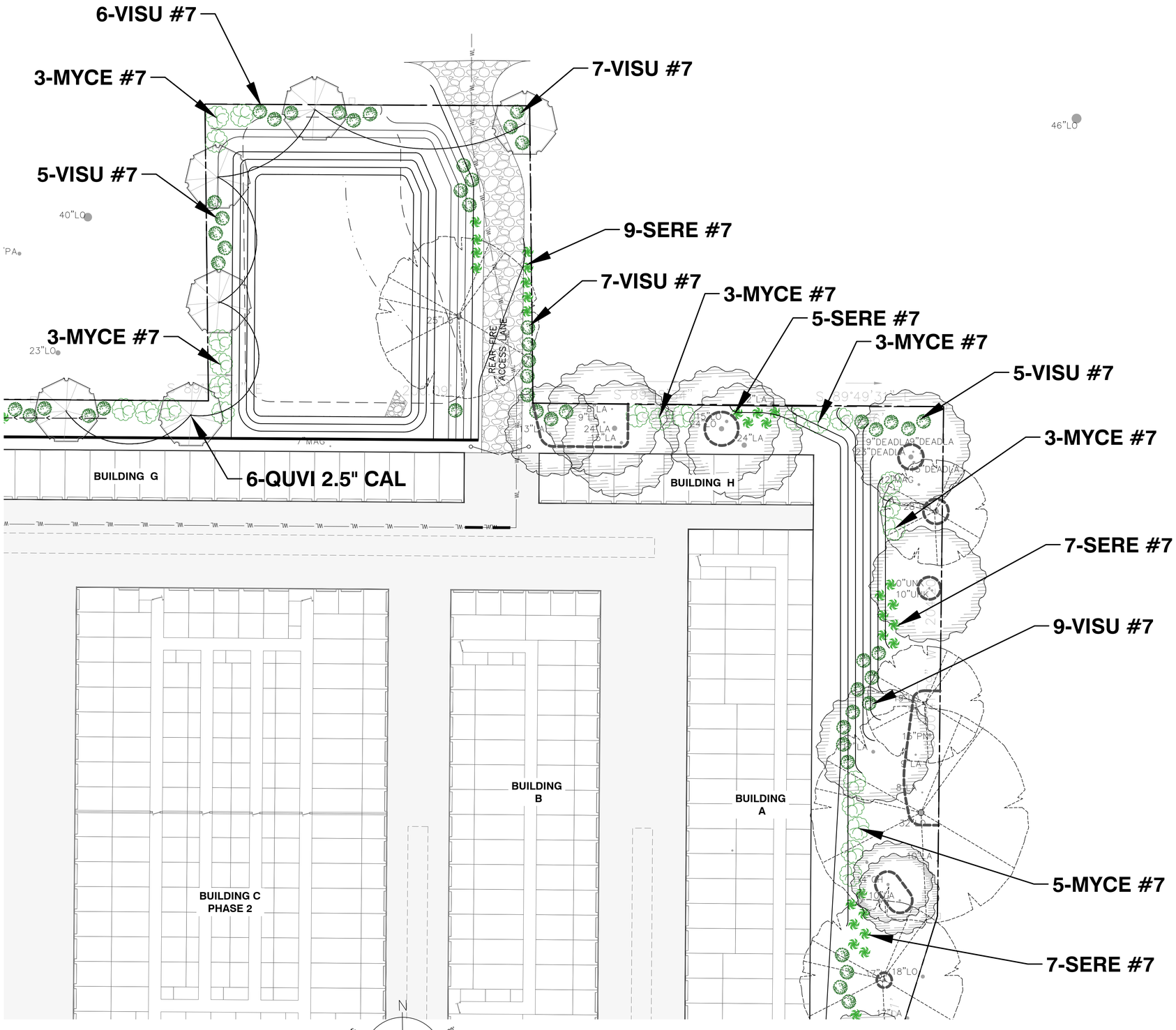

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SHEET 6 OF 7

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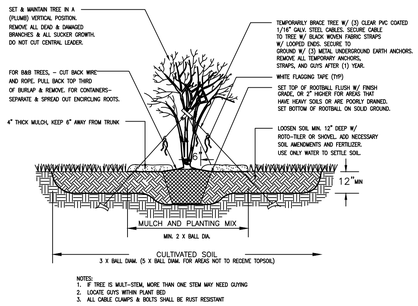
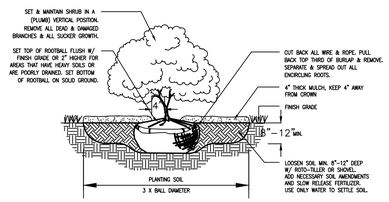


1/LS107 MULTI-TRUNK TREE PLANTING DETAIL

N.T.S.



2/LS107 SHRUB PLANTING DETAIL

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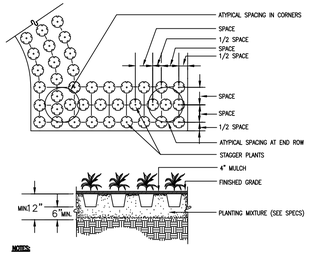

3/LS107 GROUNDCOVER PLANTING DETAIL

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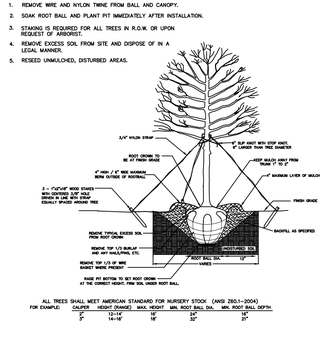

4/LS107 TREE INSTALLATION DETAIL

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5. AVOID SPRAYING ROADS, PARKING AND WALKS.
6.UTILIZE SWING-JOINTS AND/OR FLEX-RISERS ON ALL HEADS NEXT TO ROADS, PARKING AND WALKS.
7. CONTRACTOR WILL PROVIDE 3 SETS OF AS-BUILT IRRIGATION DRAWINGS AFTER CONSTRUCTION IS COMPLETE AND APPROVED BY THE OWNER.
8. CONTRACTOR TO COORDINATE WITH GC AND OWNER, PRIOR TO HARDSCAPE MATERIAL INSTALLATION, INSTALLING CONDUIT FOR IRRIGATION.

DRAINAGE:

SEE GRADE AND DRAINAGE PLAN FOR PROPOSED SITE DRAINAGE.

GUARANTEE:

THE CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND PLANT MATERIAL TO BE FREE OF DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM FINAL ACCEPTANCE OF THE PROJECT. CONTRACTOR SHALL REPLACE ANY PLANT MATERIAL FOUND TO BE DEFECTIVE WITHIN THE PERIOD OF GUARANTEE AT NO COST TO THE OWNER, EXCEPT REPAIRS OR REPLACEMENT NECESSITATED BY DAMAGE BY OTHERS OR DIEBACK DUE TO INSUFFICIENT IRRIGATION/WATERING SCHEDULE.

		AAA Residential Storage Facility						
	Trees:							
	Common Name	**Botanical Name**	**Height**	**Spread**	**Caliper**	**Gallon**	**QTY**	**Unit**
CECA	Red Bud	*Cercis canadensis*	8'	6'	2.5"		2	Ea
QUVI	Live Oak- Cathedral	*Quercus viginiana 'Cathedral'*	10'		3.5"		13	Ea
ULAM	American Elm	*Ulmus americana*	10'	8'	2.5"		2	Ea.
	SHRUBS:							
	Common Name	**Botanical Name**	**Height**	**Spread**	**Caliper**	**Gallon**	**QTY**	**Unit**
ILFL	Florida Anise Red	*Illicum floridanum*	30"	30"		7	6	Ea.
POMA	Dwarf Yew Pine	*Podocarpus macrophyllus 'Pringles'*	30"	24"		7	26	Ea.
VIOD	Sweet Viburnum	*Viburnum suspensum*	30"	30"		7	110	Ea.
SERE	Saw Palm	*Serenoa repens*	30"	30"		7	102	Ea.
MYCE	Wax Myrtle	*Merica cerifera*	6'	5'		7	80	Ea.
	GROUNDCOVERS & PERENNIALS:							
	Common Name	**Botanical Name**	**Height**	**Spread**	**Caliper**	**Gallon**	**QTY**	**Unit**
MUFI	Pink Muhly Grass	*Muhlenbergia capillaris*	24"	24"		1	69	Ea.
	Mulch	Pine Straw					35,000	SF
	Grass/IRRIGATION:							
	Item	**Notes**					**QTY**	**Unit**
	Sod- Centipede	Centipede Sod					20,400	SF
	Irrigation system	Srpay Head for Sod & Drip Zones on shrubs and trees					15	Ea
	Rev. 11112020							

Plant Schedule

STATE OF SOUTH CAROLINA
REGISTERED
No. 1076
LANDSCAPE ARCHITECT
JOHN MICHAEL BROCK

No.	Issue / Revision Description	Date
1	PER DRB COMMENTS	021821

CONCEPTUAL LANDSCAPE PLANS
FOR
AAA RESIDENTIAL STORAGE FACILITY
CITY OF BEAUFORT, SOUTH CAROLINA

M.B.D.
M. BROCK DESIGNS, LLC
LANDSCAPE ARCHITECTURE + LAND PLANNING

J. M. BROCK
RLA
po box 358, port royal
south carolina, 29935
ph. 843.540.6407
mbrock@mbrockdesigns.com

Drawn By:	*M. Brock*
Drawn Date:	*11.10.20*
Chk'd By:	*M. Brock*
Project ID:	*2010112*

Landscape Detail
Sheet No.
LS-107
SHEET 7 OF 7

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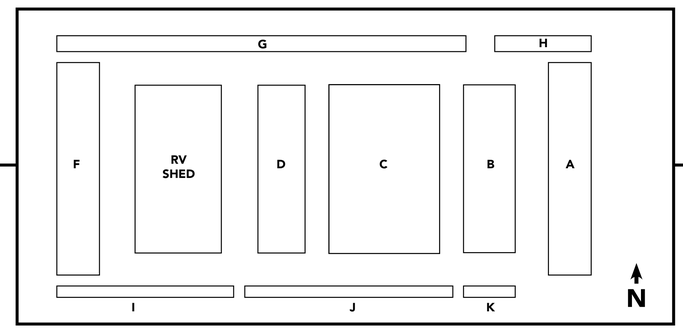
AAA RESIDENTIAL STORAGE FACILITY

15 SAM'S POINT ROAD, BEAUFORT, SOUTH CAROLINA





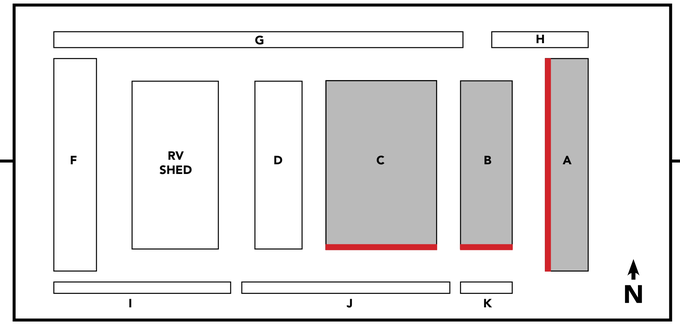
BUILDING A
WEST ELEVATION



BUILDING B
SOUTH ELEVATION



BUILDING C
SOUTH ELEVATION



AAA RESIDENTIAL STORAGE FACILITY

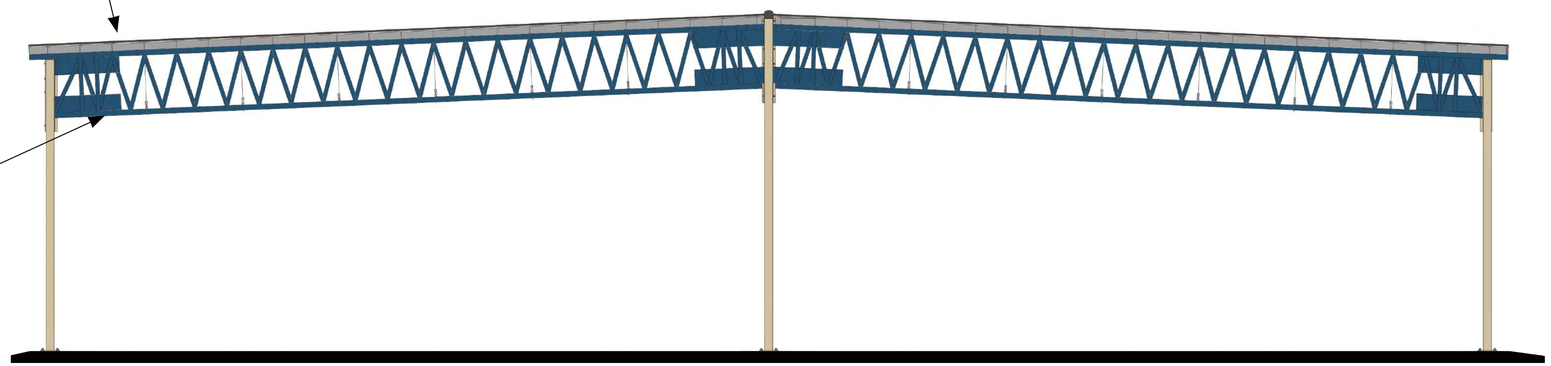
15 SAM'S POINT ROAD, BEAUFORT, SOUTH CAROLINA



METAL SIDING
LIGHT STONE

BUILDING D
SOUTH ELEVATION

GALVALUME ROOF



ROOF SUPPORTS
HAWAIIAN BLUE

RV SHED
SOUTH ELEVATION

ROOF TRIM
HAWAIIAN BLUE

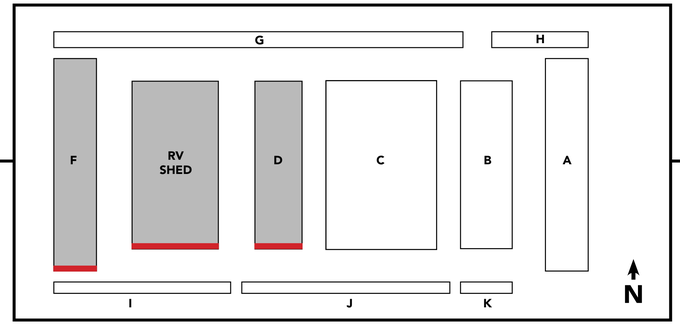


JANUS
SELF-STORAGE DOORS
WHITE

BUILDING F
SOUTH ELEVATION

AAA RESIDENTIAL STORAGE FACILITY

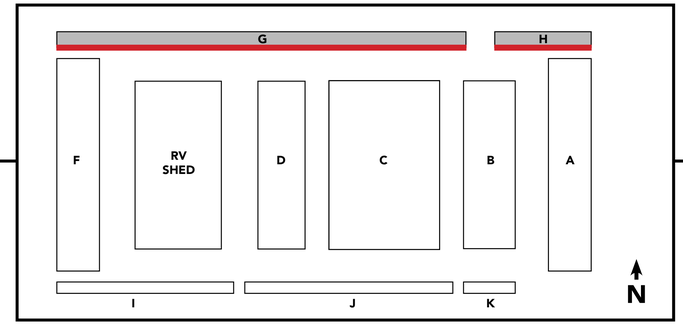
15 SAM'S POINT ROAD, BEAUFORT, SOUTH CAROLINA





BUILDING G
SOUTH ELEVATION

BUILDING H
SOUTH ELEVATION



AAA RESIDENTIAL STORAGE FACILITY

15 SAM'S POINT ROAD, BEAUFORT, SOUTH CAROLINA





GALVALUME ROOF

ROOF TRIM
HAWAIIAN BLUE

JANUS
SELF-STORAGE DOORS
WHITE

METAL SIDING
LIGHT STONE



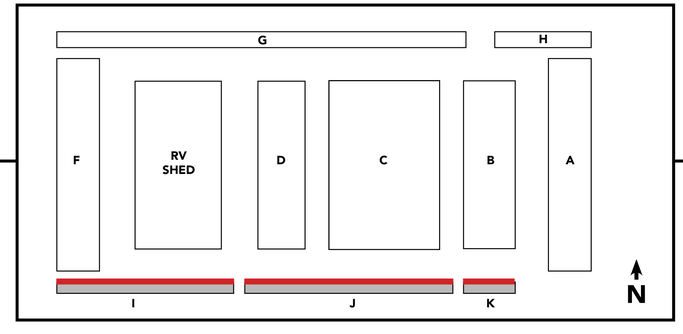
BUILDING I
NORTH ELEVATION



BUILDING J
NORTH ELEVATION



BUILDING K
NORTH ELEVATION



AAA RESIDENTIAL STORAGE FACILITY

15 SAM'S POINT ROAD, BEAUFORT, SOUTH CAROLINA

NEW SALES BUILDING FOR:

AAA STORAGE CITY

18 SAM'S POINT ROAD

LADY'S ISLAND, BEAUFORT CO., SC

DESIGN CRITERIA - SALES BUILDING ONLY

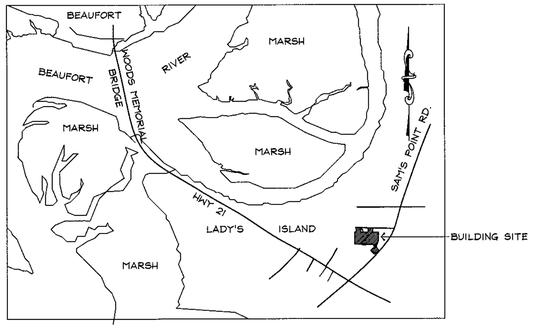
2015 IBC - INCLUDING 2015 AMENDMENTS
2015 IPC
2015 IMC
2014 NEC (NFPA 79)
2009 IECC
2015 ANSI A117.1 ACCESSIBILITY
2009 SC ENERGY CONSERVATION CODE
2015 IFC W/AMMENDMENTS

TYPE OF CONSTRUCTION: TYPE V-B (IBC 602.5)
OCCUPANCY CLASSIFICATION: B - BUSINESS (IBC 304.1)
ALLOWABLE HEIGHT: 40 FEET (IBC T504.3)
ALOWABLE AREA: 9000 SF (IBC T506.2)
    ROPOSED: 2586
ALLOWABLE STORIES ABOVE GRADE: 2 STORIES (IBC T504.4)
    PROPOSED: 2 STY'S @ 33'-8 1/2" ABOVE GRADE
OCCUPANCY LOADS: (IBC CHAPTER 3)
    ALLOWED: 2586 SF/100SF/PERSON = 26 PEOPLE (IBC T1004.1.2)
    PROPOSED: 18EOPLE.
        OFFICE: 96 SF = 1 PERSON
        SALES: 1200 SF = 12 PEOPLE
        HC RR: 2 FIXTURES = 3 PEOPLE
        STORAGE: 1200 SF = 3 PEOPLE
MEANS OF EGRESS: (IBC CHAPTER 10)
    BUSINESS: 26 PEOPLE X 0.20 = 5.2 REQ'D. EGRESS INCHES
        PROVIDED: 72 INCHES.
FIRE RESISTANCE RATINGS FOR ALL BUILDING ELEMENTS = 0 HRS (IBC T601)
ILLUMINTION OF EXTERIOR MEANS OF EGRESS REQUIRED (IBC 1006.1)
    EXIT LIGHTING REQUIRED: (IBC 1011.1)
TRAVEL DISTANCE MAXIMUM ALLOWED: 200' W/O SPRINKLERS (IBC 1017.2)
    PROPOSED:
NUMBER OF EXITS REQUIRED: 2 (IBC 1006.2.1)
AUTOMATIC SPRINKLER SYSTEM: NOT REQIORED (IBC CHAPTER 10)

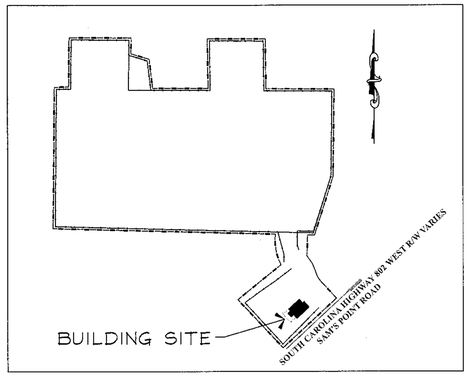
NOTE: ARCHITECT CHOSE TO USE B OPCCUPANCY FOR AAA TORAGE DUE TO REMOTENESS ON SITE & BECAUSE IT WAS THE MORE RESTRICTIVE CODE OPTIONS.
BECAUSE SALES BUILDING IS LESS THAN 10% OF TOTAL STORAGE BUILDING CAPACITY OF S-1 OCCUPANCY (ACCESSORY) MAY HAVE BEEN USED, BUT WAS NOT.

FOR WIND & SEISMIC: SEE STRUCTURAL DRAWINGS FOR DETAILS.

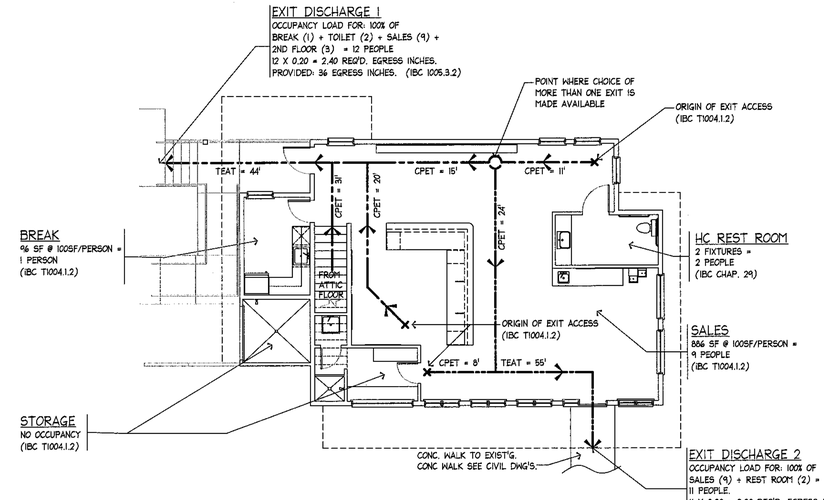
PROJECT SHALL COMPLY WITH ALL NATIONAL, STATE & LOCAL CODES AND ORDINANCES.



VICINITY MAP



LOCATION MAP



CODE FOOTPRINT PLAN

(LIFE SAFETY PLAN) NO SCALE

LEGEND:

OFFICE
180 SF DIVIDED BY 100 = 2 PEOPLE (FBC T1004.1.2)
- SPACE NAME
- SPACE SQUARE FOOTAGE DIVIDED BY MAX. AREA ALLOWED PER PERSON.
- CODE REFERENCE
- OCCUPANCY LOAD ALLOWED PER CODE FOR THIS SPECIFIC SPACE

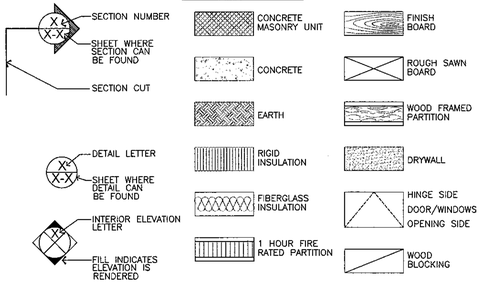
CPET = COMMON PATH OF EGRESS TRAVEL.
TEAT = TOTAL EGRESS ACCESS TRAVEL

ABBREVIATIONS

AB	ANCHOR BOLT
ATC.	ACOUSTICAL TILE CEILING
ADD'L.	ADDITIONAL
AFF	ABOVE FINISHED FLOOR
ALUM/AL	ALUMINUM
ANOD.	ANODIZED
@	AT
BLK'G.	BLOCKING
BM	BEAM
BRG.	BEARING
BLK	BLACK , BLOCK
BLDG.	BUILDING
CAB.	CABINET
℄	CENTER LINE
CG	CORNER GUARD
CJ	CONTROL JOINT
CLG.	CEILING
CLOS./CLO.	CLOSET
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONF.	CONFERENCE
CONST.	CONSTRUCTION
COR.	CORRIDOR
CONT.	CONTINUOUS
CPT.	CARPET
CT	CERAMIC TILE
DIM'S.	DIMENSIONS
DIA / ⌀	DIAMETER
DIM	DIMENSION
DN	DOWN
DWG'S.	DRAWINGS
EA.	EACH
ELEC.	ELECTRIC
ELEV.	ELEVATION
EQ.	EQUAL
EQUIP.	EQUIPMENT
EXIST.	EXISTING
EXP. / EJ	EXPANSION / JOINT
EXT.	EXTERIOR
FD	FLOOR DRAIN
F.F.	FINISHED FLOOR
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FIN.	FINISH
FLR.	FLOOR
FLASH'G.	FLASHING
FR./FRM.	FRAME
FRT.	FIRE RETARDANT TREATMENT
FTG.	FOOTING
FURN.	FURNITURE
FURR'G.	FURRING
GA.	GAUGE
GEN.	GENERAL
GC	GENERAL CONTRACTOR
G.I.	GALVANIZE IRON
GL.	GLASS
GYP. B'D.	GYPSUM BOARD
H.M.	HOLLOW METAL
HR.	HOUR
INSUL.	INSULATION
INT.	INTERIOR
JAN.	JANITOR
JT	JOINT
MAX.	MAXIMUM
MECH.	MECHANICAL
MIN.	MINIMUM
MNT.	MOUNT
MTL.	METAL
MFR.	MANUFACTURER
NO.	NUMBER
O.C.	ON CENTER
PNT.	PAINT
P.C.	PORTLAND CEMENT
PLAS. LAM.	PLASTIC LAMINANT
PLYW'D.	PLYWOOD
PMEJ.	PREMOLDED EXPANSION JOINT
P.P.T.	PRESERVITIVE PRESSURE TREATED
PTD.	PAINTED
RCP	REFLECTED CEILING PLAN
RE:	REFERENCE
REC'PT.	RECEPTION
REINF.	REINFORCING
RESIL.	RESILIENT
RET.	RETAINING
REQ'D.	REQUIRED
SCHED.	SCHEDULE
SC WD	SOLID CORE WOOD
SECT.	SECTION
SEC'Y.	SECRETARY
SHTV.	SHEET VINYL
STL.	STEEL
STN.	STAIN
STO./STOR.	STORAGE
STRUCT	STRUCTURAL
SUSP.	SUSPENDED
TELE.	TELEPHONE
TEMP.	TEMPERED
T.G.	TOP OF GRATE
TLWC	TOP OF LIGHTWEIGHT CONCRETE
T.V.	TELEVISION
T.W.	TOP OF WALL
TYP.	TYPICAL
U.L.	UNDERWRITERS LABORATORIES
U.N.O.	UNLESS NOTED OTHERWISE
VB	VINYL BASE
VERT.	VERTICAL
VEST.	VESTIBULE
VCT	VINYL COMPOSITION TILE
VWC	VINYL WALL COVERING
W/	WITH
WD.	WOOD

ALL DIMENSION AND MEASUREMENTS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

LEGEND



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VILLA RICA, GA 30180
678-416-3078 CIDNEY L'HOST, PM

GENERAL CONTRACTOR:

TBD --
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--

INDEX OF DRAWINGS

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M001	HVAC DETAILS
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P201	WATER DISTRIBUTION PLAN

STATE OF SOUTH CAROLINA — LICENSED ARCHITECT — Registered Architect — Peggy Griffith — Tybee Island — S.C. — 04592 — REGISTERED ARCHITECT

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REVISIONS

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Architect
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Sebring, FL 33870
843-815-4282

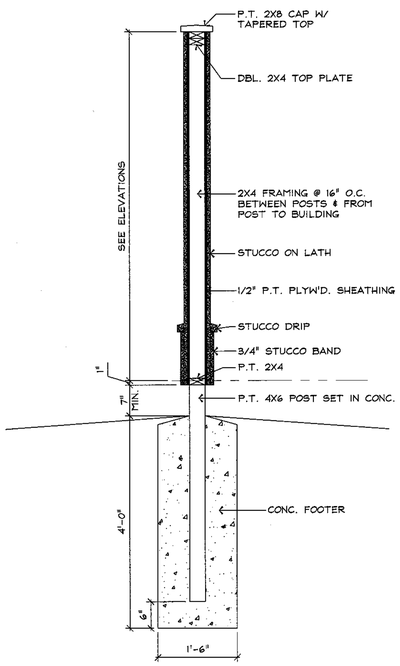
COVER SHEET

NEW SALES BUILDING FOR:
AAA STORAGE CITY
LADY'S ISLAND
BEAUFORT COUNTY, SC

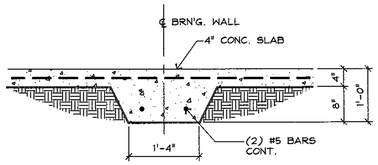
DATE: 3-22-21 | SCALE: AS NOTED | DRAWN BY: DB CHECK'D BY: MG | PROJECT NO. 2014

ARCHITECTURAL

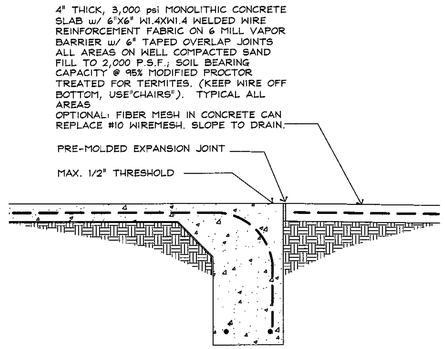
CS



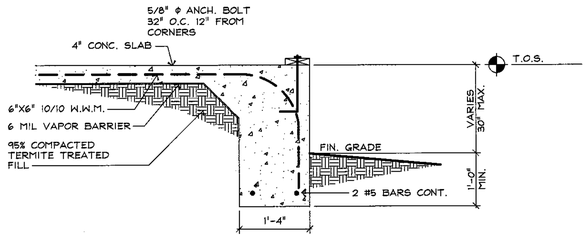
WALL FOOTING DETAIL 4/A1
3/4"=1'-0



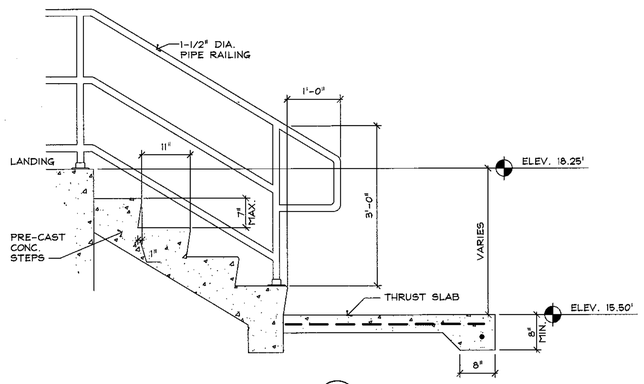
THICKENED SLAB DETAIL 3/A1
3/4"=1'-0



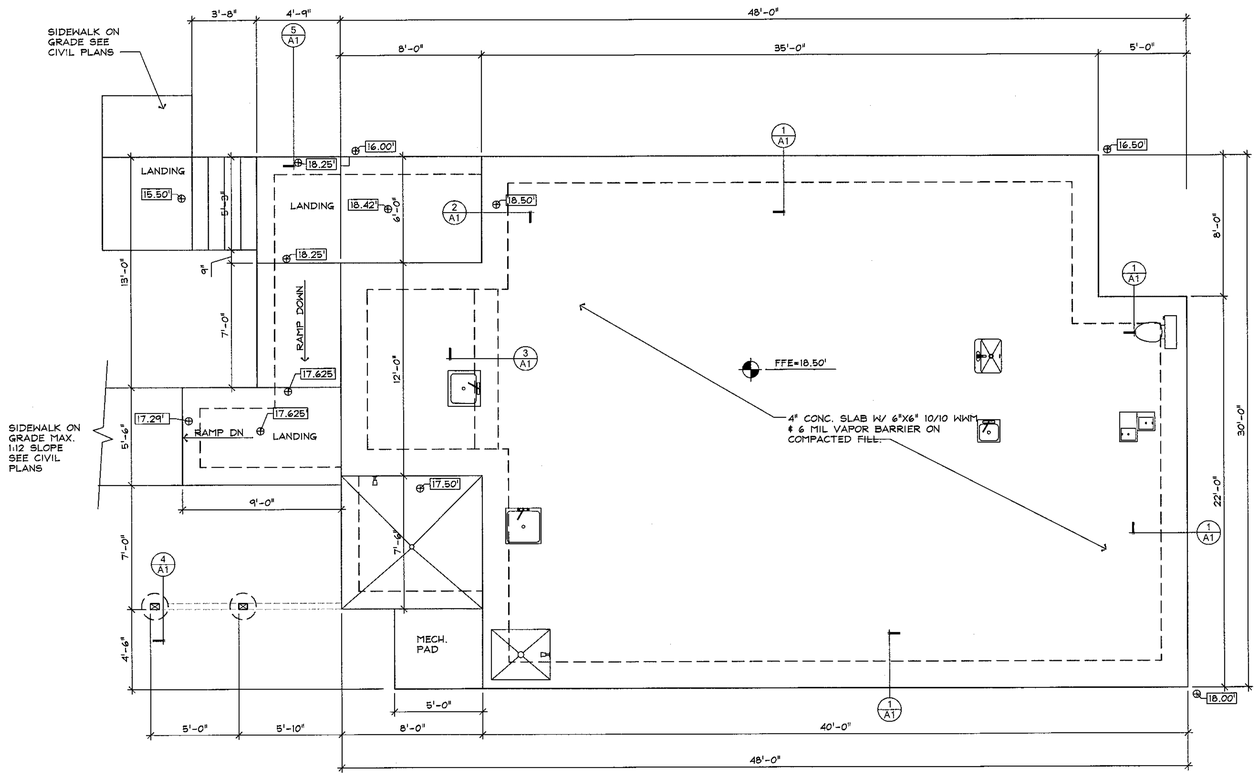
FOOTING DETAIL 2/A1
3/4"=1'-0



FOOTING DETAIL 1/A1
3/4"=1'-0



STEP DETAIL 5/A1
3/4"=1'-0



FOUNDATION/SLAB PLAN
SCALE 1/4"=1'-0"

ALL DIMENSION AND MEASUREMENTS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

STATE OF SOUTH CAROLINA
Newell Michael Farley Griffith
Tybee Island
G.A.
04592
REGISTERED ARCHITECT

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REVISIONS

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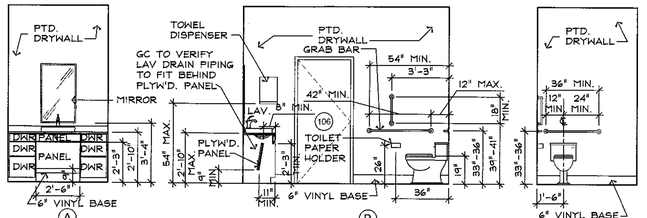
FOUNDATION/SLAB PLAN

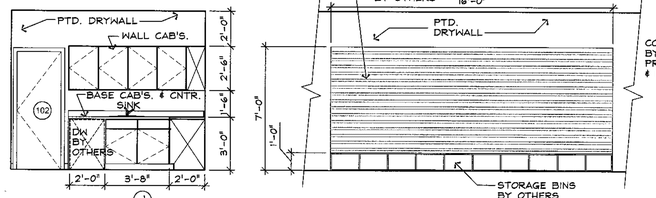
NEW SALES BUILDING FOR:
AAA STORAGE CITY
LADY'S ISLAND
BEAUFORT COUNTY, SC

DATE: 3-22-21
SCALE: AS NOTED
DRAWN BY: DB
CHECK'D BY: MG
PROJECT NO: 2014

ARCHITECTURAL

1

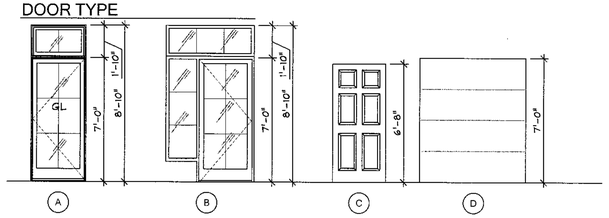




DOOR SCHEDULE

DOOR NO.	SIZE WIDTH	HEIGHT	THK	MAT'L	FINISH	TYPE	FRAME MAT'L	FRAME TYPE	DP RATING	FIRE RATING	REMARKS
101	3'-0"	7'-0"	1-3/4"	MTL.	PTD	A	MTL.		35	—	EXTERIOR W/PANIC & TRANSOM
102	2'-6"	6'-8"	1-3/4"	WD	PTD	C	WD			—	PASSAGE LOCK
103	6'-0"	7'-0"	--	MTL.	PTD	D	MTL.		35	—	OVERHEAD DOOR
104	2'-4"	6'-8"	1-3/8"	WD	PTD	C	WD			—	
105	2'-6"	6'-8"	1-3/8"	WD	PTD	C	WD			—	UNDERCUT DOOR 1/2"
106	3'-0"	6'-8"	1-3/8"	WD	PTD	C	WD			—	UNDERCUT DOOR 1/2"
107	3'-0"	7'-0"	1-3/4"	MTL	PTD	B	MTL.		35	—	EXTERIOR W/PANIC, TRANS. & SL.
201	3'-0"	6'-8"	1-3/8"	WD	PTD	C	WD			—	
202	3'-0"	6'-8"	1-3/8"	WD	PTD	C	WD			—	

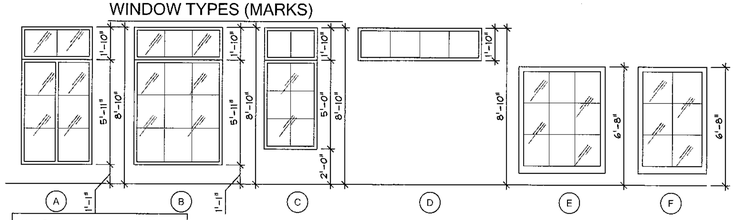
DOOR TYPE



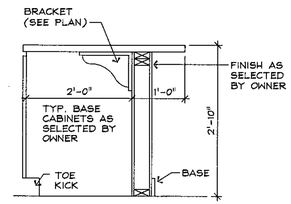
WINDOW SCHEDULE

QTY	MARK	SIZE WIDTH	HEIGHT	TYPE	DP RATING	REMARK
4	A	4'-0"	5'-11"	STORE FRONT	35	W/ 22" TRANSOM
2	B	3'-0"	5'-11"	STORE FRONT	35	W/ 22" TRANSOM
5	C	3'-0"	5'-0"	STORE FRONT	35	W/ 22" TRANSOM
1	D	7'-0"	1'-10"	STORE FRONT	35	TRANSOM
5	E	5'-0"	6'-0"	STORE FRONT	35	W/O TRANSOM
3	F	4'-0"	6'-0"	STORE FRONT	35	W/O TRANSOM

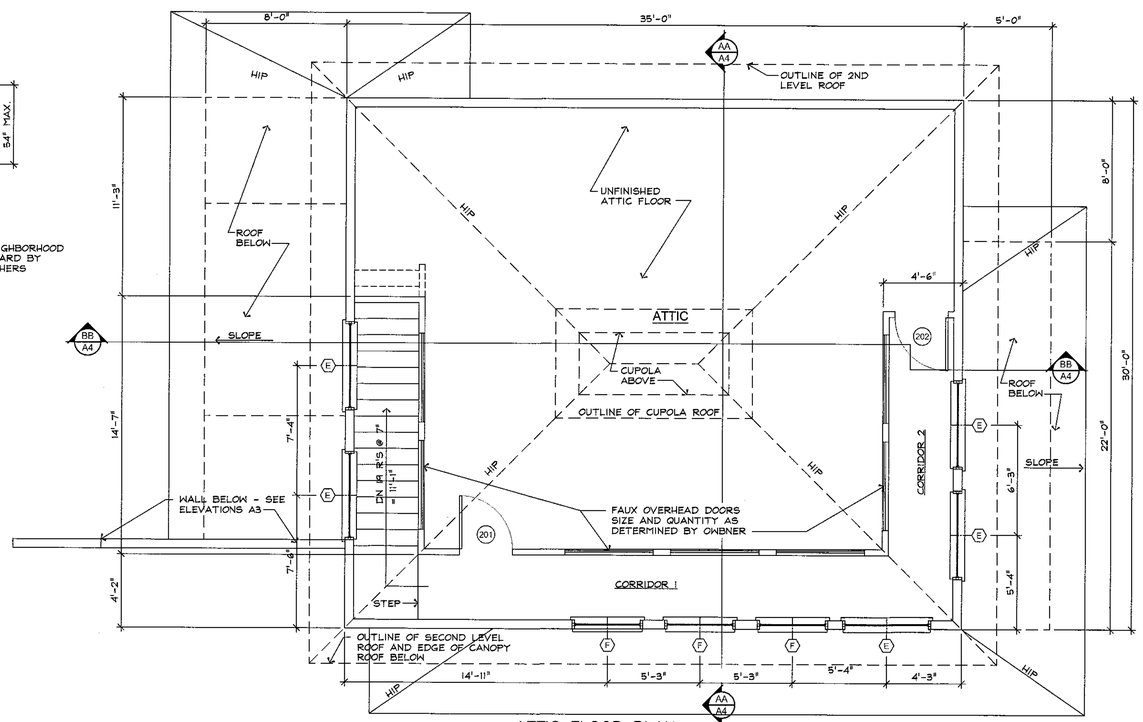
WINDOW TYPES (MARKS)



ALL DIMENSION AND MEASUREMENTS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE



COUNTER SECTION. 1/A2 — 3/4"=1'-0"



ATTIC FLOOR PLAN
SCALE 1/4"=1'-0"

FIRST FLOOR PLAN
SCALE 1/4"=1'-0"

STATE OF SOUTH CAROLINA
Newell Michael Farley Griffith
Hyperlsland
04592
REGISTERED ARCHITECT

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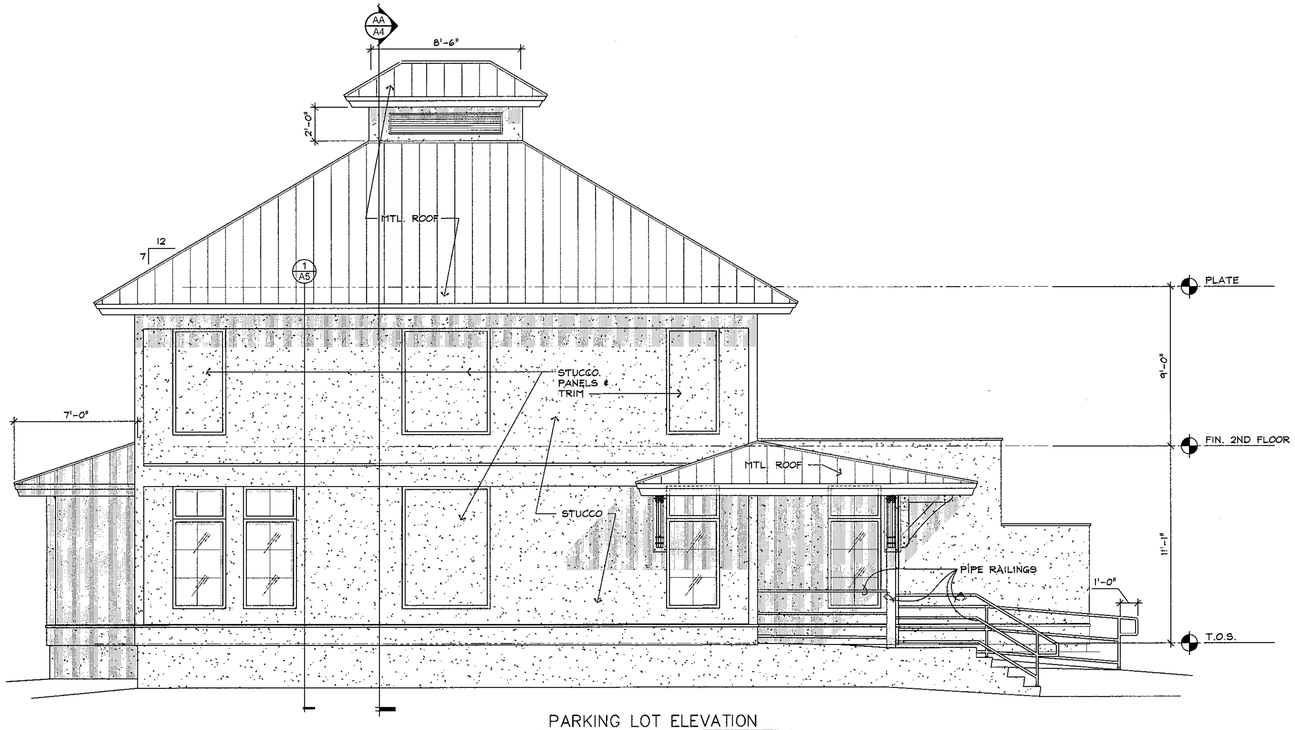
Spring Hill, FL 33870
843-915-4282

SALES OFFICE - PLANS - DETAILS

NEW SALES BUILDING FOR:
AAA STORAGE CITY
LADY'S ISLAND
BEAUFORT COUNTY, SC

PROJECT NO. 2014
DRAWN BY: DB
CHECK'D BY: MG
SCALE: AS NOTED
DATE: 3-22-21

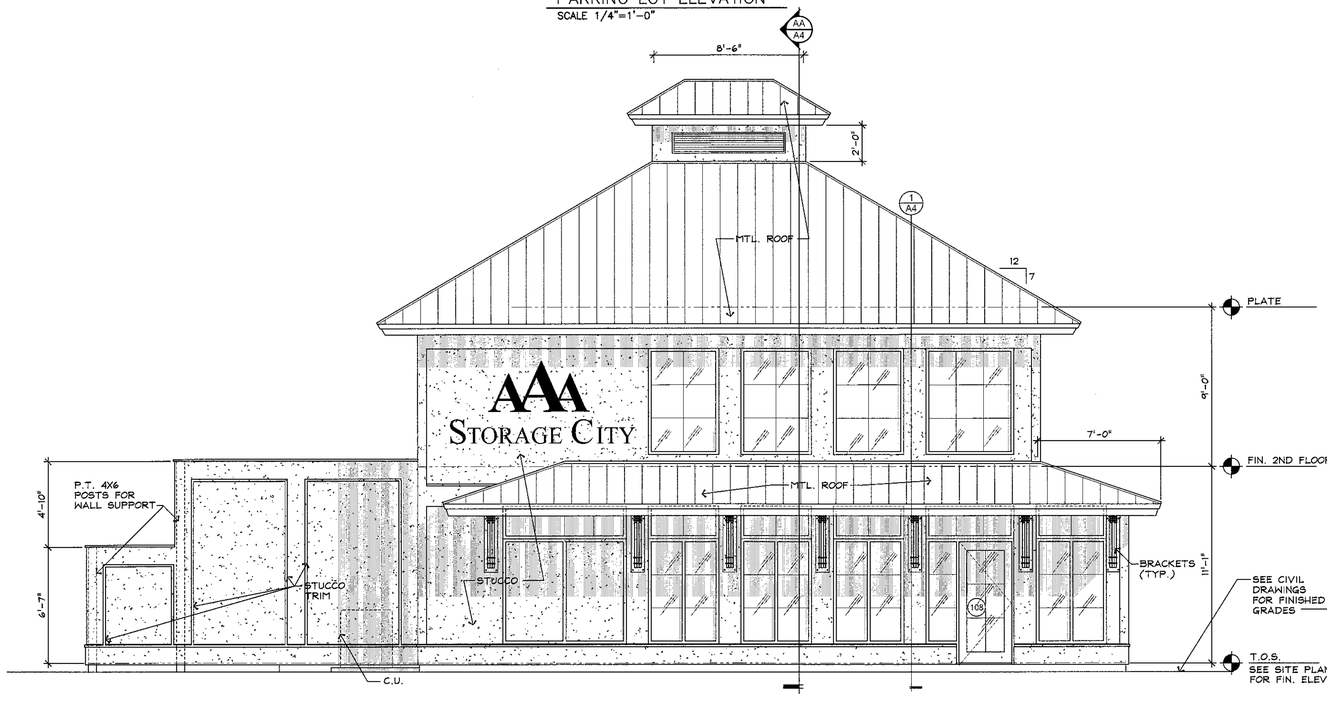
ARCHITECTURAL
2



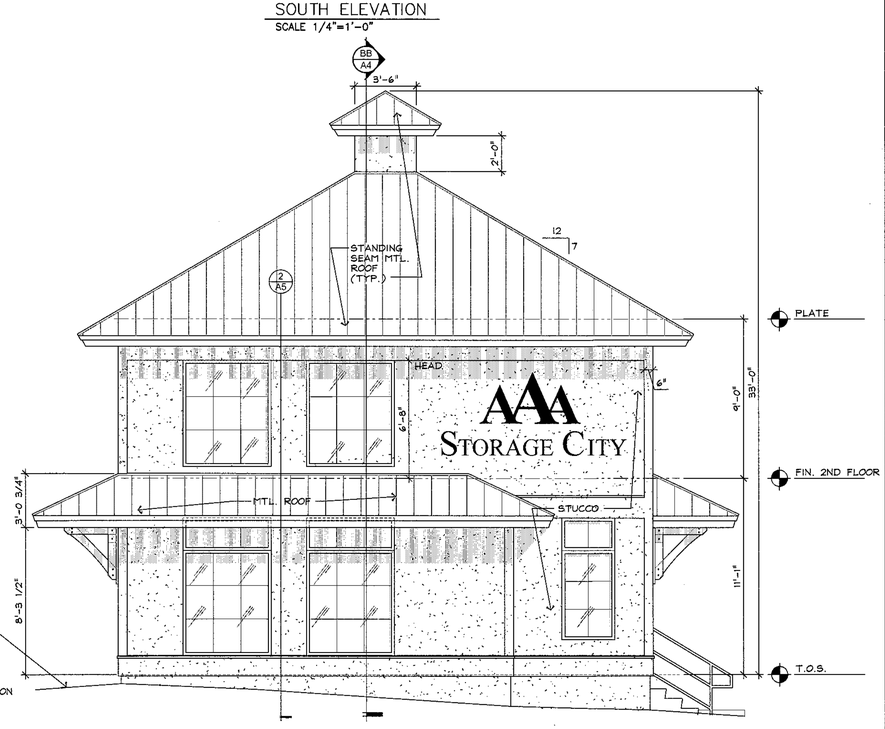
PARKING LOT ELEVATION
SCALE 1/4"=1'-0"



SOUTH ELEVATION
SCALE 1/4"=1'-0"



SAM'S POINT ROAD ELEVATION (EAST)
SCALE 1/4"=1'-0"



NORTH ELEVATION
SCALE 1/4"=1'-0"

ALL DIMENSION AND MEASUREMENTS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

STATE OF SOUTH CAROLINA
Newell Michael Farley Griffith
Tybee Island
G.A.
04592
REGISTERED ARCHITECT

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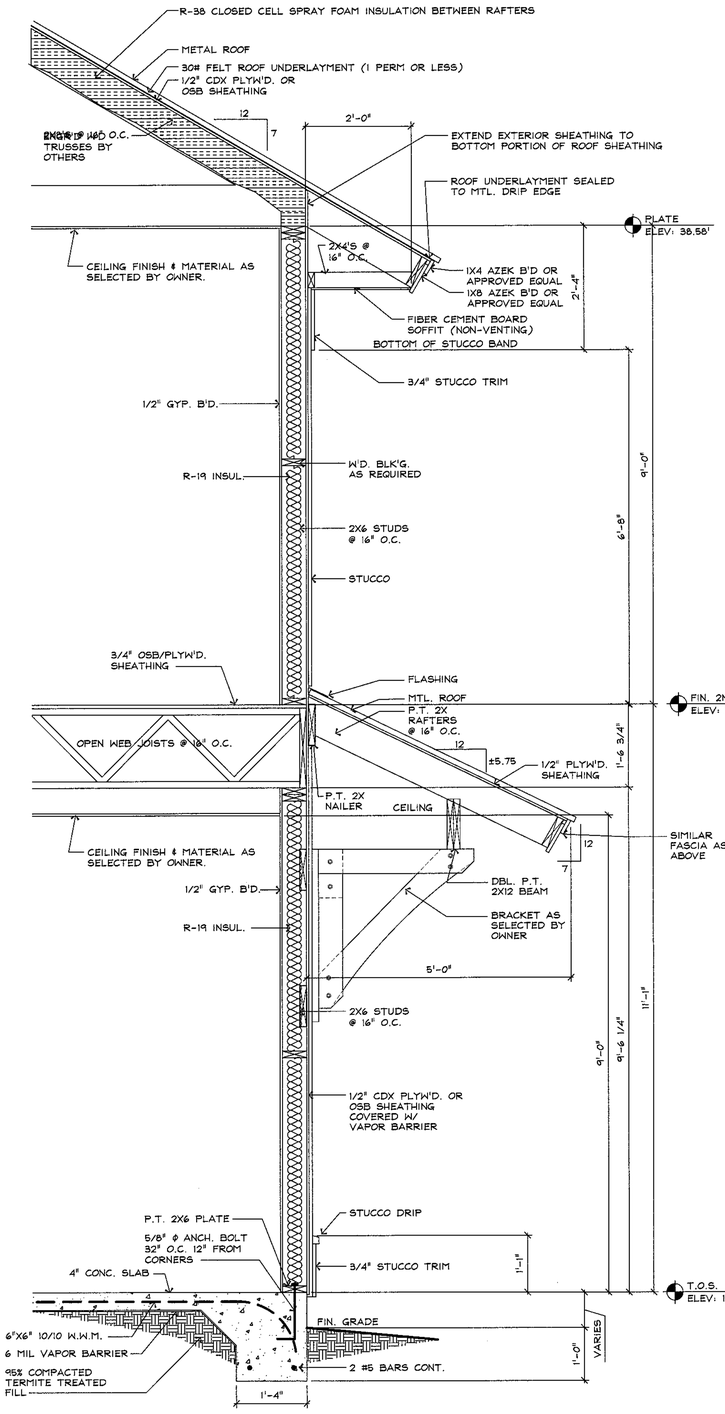
Sebring, FL 33870
843-815-4282

SALES OFFICE - ELEVATIONS

NEW SALES BUILDING FOR:
AAA STORAGE CITY
LADY'S ISLAND
BEAUFORT COUNTY, SC

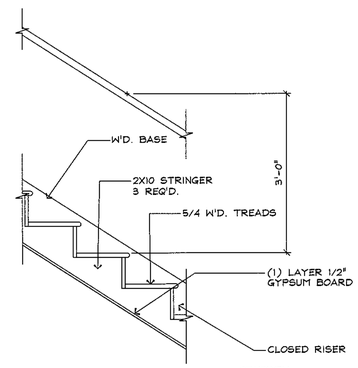
DATE: 3-22-21
SCALE: AS NOTED
DRAWN BY: DB
CHECK'D BY: MG
PROJECT NO: 2014

ARCHITECTURAL
3

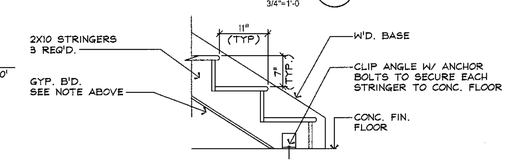


WALL SECTION 1/A4
3/4"=1'-0

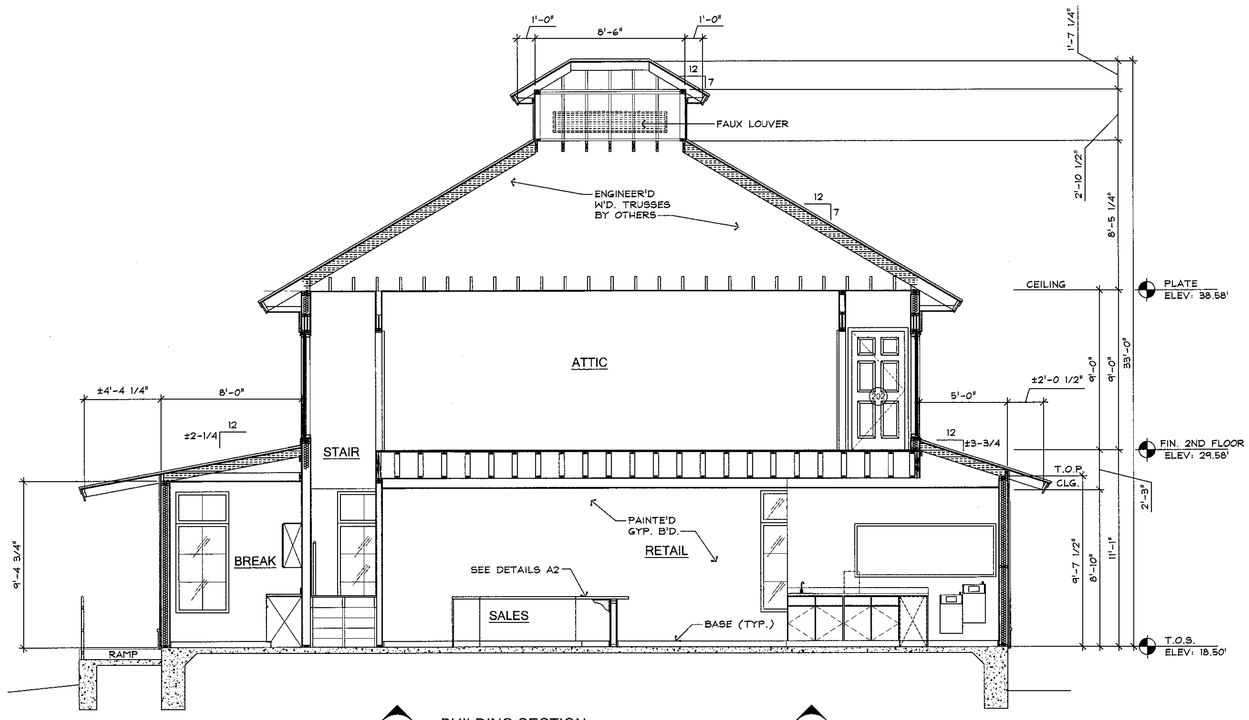
ALL DIMENSION AND MEASUREMENTS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE



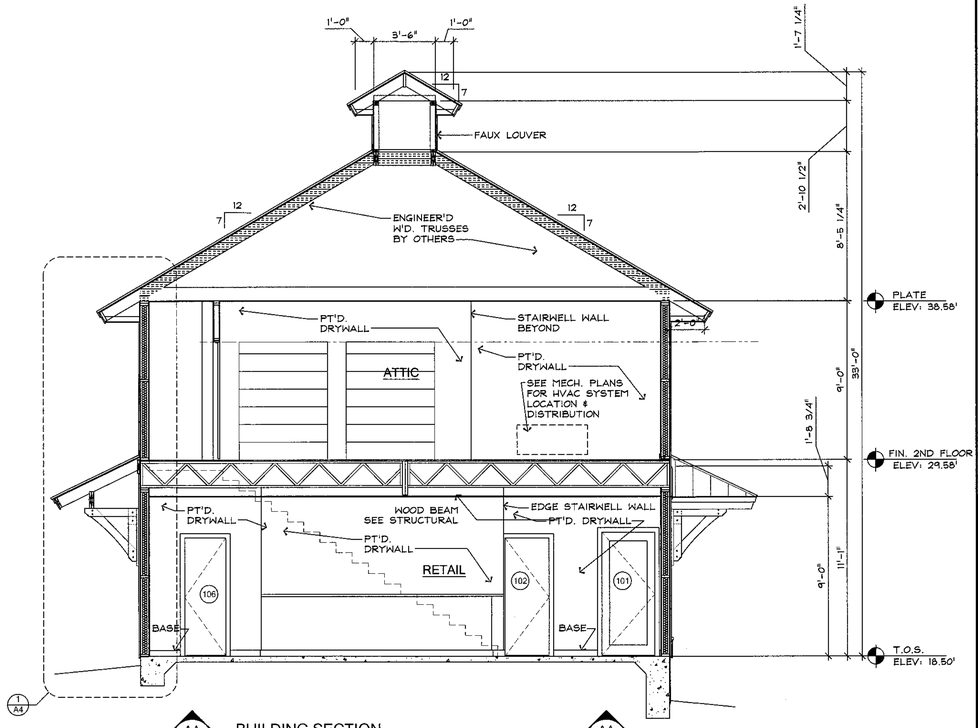
STAIR DETAIL B/A4
3/4"=1'-0



STAIR DETAIL A/A4
3/4"=1'-0



BUILDING SECTION BB/A4
SCALE 1/4"=1'-0"



BUILDING SECTION AA/A4
SCALE 1/4"=1'-0"

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BLDG. SECTION - WALL SECTIONS - DETAILS

NEW SALES BUILDING FOR:
AAA STORAGE CITY
LADY'S ISLAND
BEAUFORT COUNTY, SC

PROJECT NO: 2014
DRAWN BY: DB
CHECK'D BY: MG
SCALE: AS NOTED
DATE: 3-22-21

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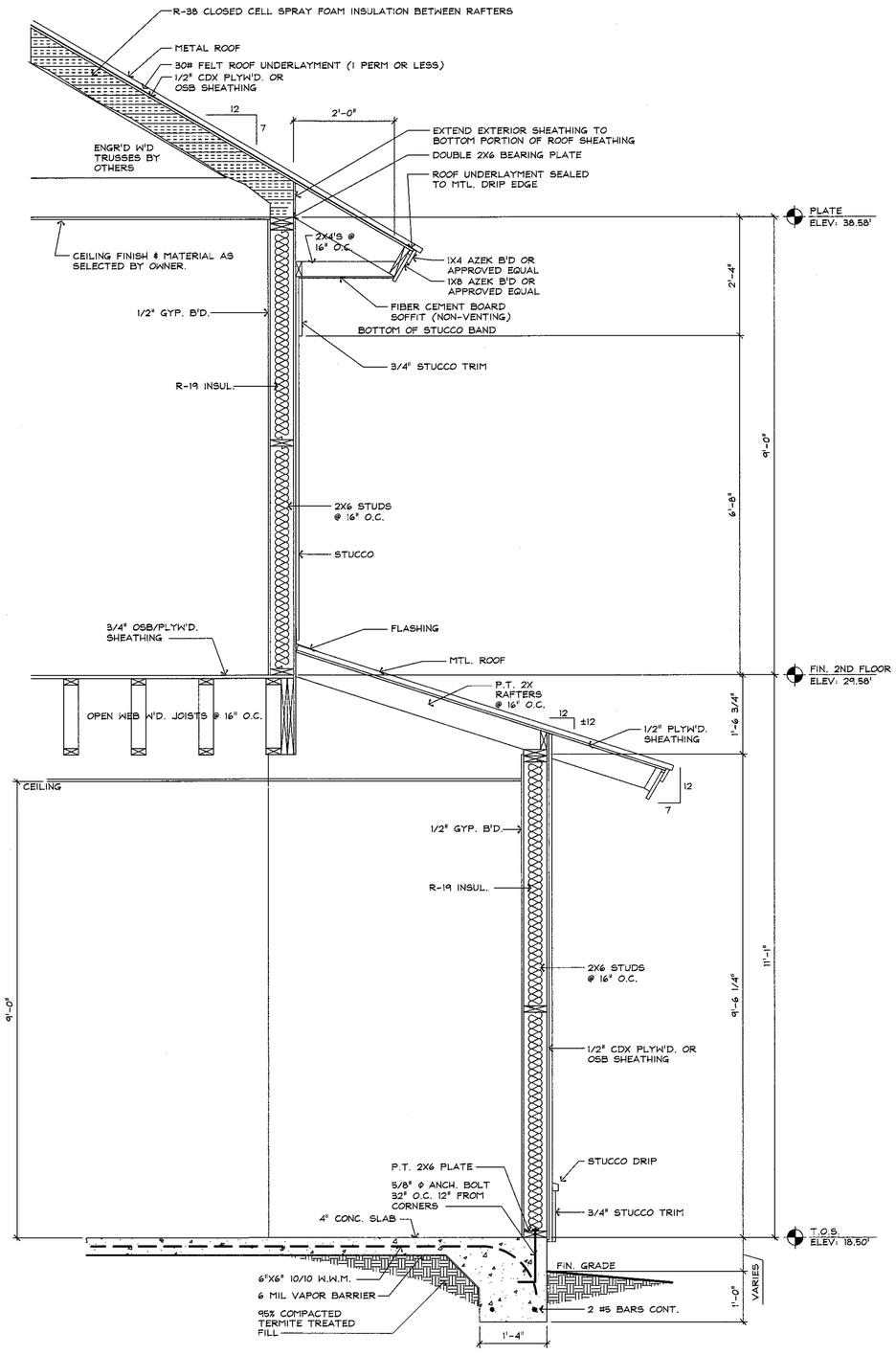
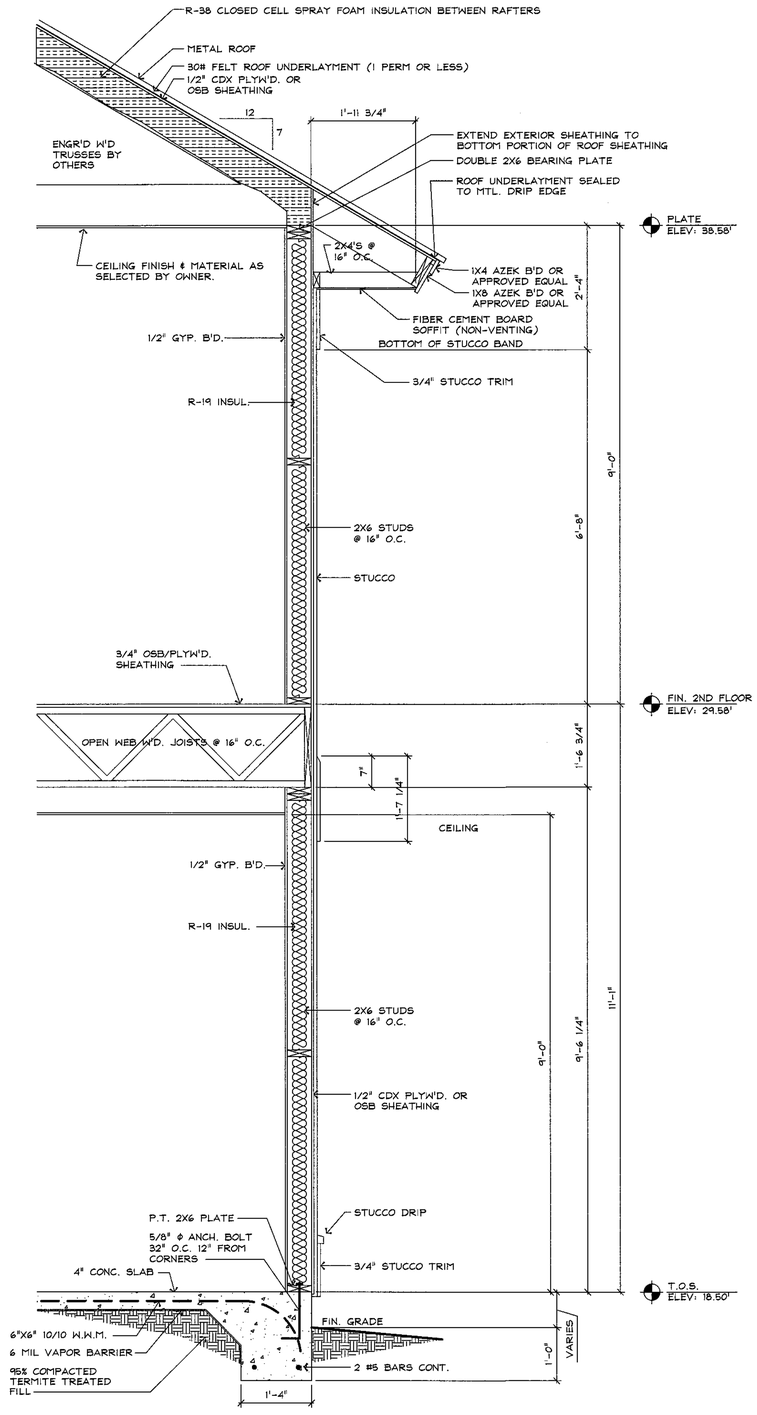


WALL SECTION 2/A5

3/4"=1'-0



WALL SECTION 1/A5

3/4"=1'-0

ALL DIMENSION AND MEASUREMENTS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

STATE OF SOUTH CAROLINA — REGISTERED ARCHITECT — Reavel Michael Fegley Griffith Jr. — 06582

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WALL SECTIONS

NEW SALES BUILDING FOR:
AAA STORAGE CITY
LADY'S ISLAND
BEAUFORT COUNTY, SC

DATE: 3-22-21 | SCALE: AS NOTED | DRAWN BY: DB CHECKED BY: MG | PROJECT NO. 2014

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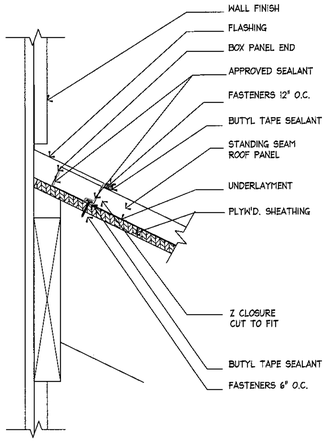
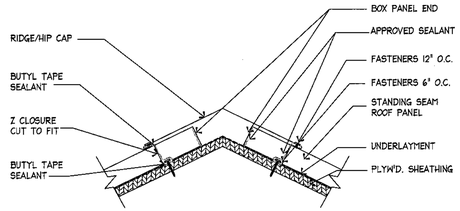
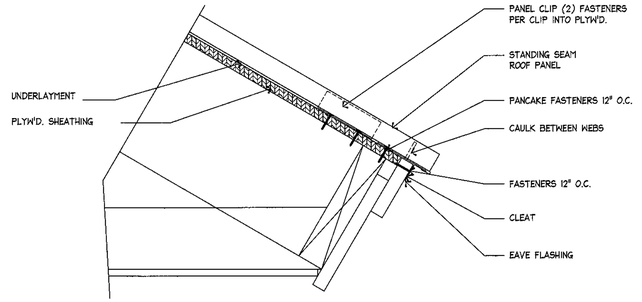
5



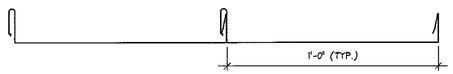
ROOF TO WALL FLASHING C A6
3"=1'-0



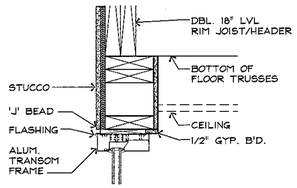
RIDGE/HIP DETAIL B A6
3"=1'-0



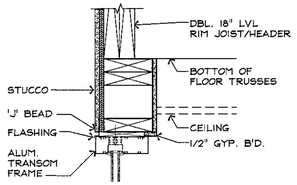
EAVE DETAIL A A6
3"=1'-0



ROOF PANEL PROFILE
NO SCALE



WINDOW HEAD N A6
1-1/2"=1'-0

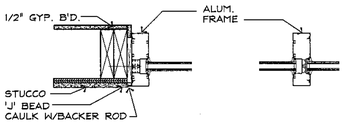


TRANSOM HEAD H A6
1-1/2"=1'-0

HORIZ. MULLION M A6
1-1/2"=1'-0

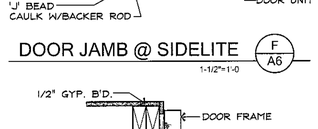


DOOR HEAD G A6
1-1/2"=1'-0

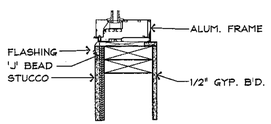


WINDOW JAMB L A6
1-1/2"=1'-0

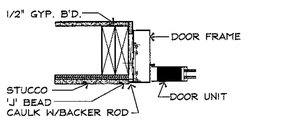
VERT. MULLION K A6
1-1/2"=1'-0



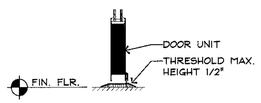
DOOR JAMB @ SIDELITE F A6
1-1/2"=1'-0



WINDOW SILL J A6
1-1/2"=1'-0

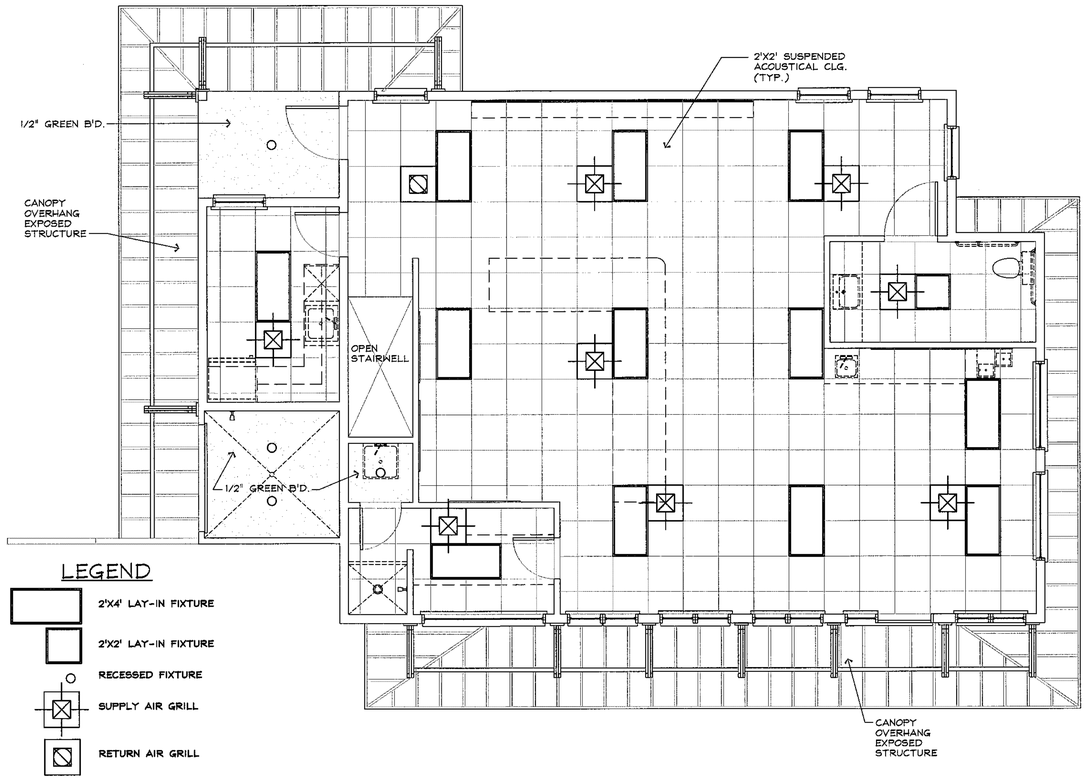


DOOR JAMB E A6
1-1/2"=1'-0



DOOR SILL D A6
1-1/2"=1'-0

ALL DIMENSION AND MEASUREMENTS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE



LEGEND

- 2'X4' LAY-IN FIXTURE
- 2'X2' LAY-IN FIXTURE
- RECESSED FIXTURE
- SUPPLY AIR GRILL
- RETURN AIR GRILL
- BATHROOM EXHAUST FAN

REFLECTED CEILING PLAN
SCALE 1/4"=1'-0"

STATE OF SOUTH CAROLINA
Manuel Michael Griffith
Esther Griffith
Tybee Island
G.A.
04592
REGISTERED ARCHITECT

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REVISIONS

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REFLECTED CEILING PLAN - DETAILS

NEW SALES BUILDING FOR:
AAA STORAGE CITY
LADY'S ISLAND
BEAUFORT COUNTY, SC

PROJECT NO: 2014
DRAWN BY: DB
CHECKED BY: MG
SCALE: AS NOTED
DATE: 3-22-21

ARCHITECTURAL
6

COM*check* Software Version 4.1.5.1

Interior Lighting Compliance Certificate

Section 1: Project Information

Energy Code: **2009 IECC**
Project Title: AAA Storage Offices
Project Type: New Construction

Construction Site:
Beaufort, SC

Owner/Agent:
Michael Griffith
Michael Griffith, AIA
P.O. Box 3527
Bluffton, SC 29910
843.825.4282
griffarch@aol.com

Designer/Contractor:
Rafael Londoño
Londoño Engineering
P.O. Box 433
Beaufort, SC 29901
843.263.1792
rlondono@londonoengineering.com

Section 2: Interior Lighting and Power Calculation

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B x C)
Office	2414	1	2414
		Total Allowed Watts =	2414

Section 3: Interior Lighting Fixture Schedule

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Office (2414 sq.ft.)				
LED 1: A: Other:	1	12	40	480
LED 2: B: Other:	1	1	20	20
LED 3: C: Other:	1	1	29	29
LED 4: D: Other:	1	14	12	168
LED 7: H: Other:	1	6	40	240
			Total Proposed Watts =	937

Section 4: Requirements Checklist

Interior Lighting PASSES: Design 61% better than code.

Lighting Wattage:

☑ 1. Total proposed watts must be less than or equal to total allowed watts.

Allowed Watts	Proposed Watts	Complies
2414	937	YES

Controls, Switching, and Wiring:

N/A ☐ 2. Daylight zones under skylights more than 15 feet from the perimeter have lighting controls separate from daylight zones adjacent to vertical fenestration.

N/A ☐ 3. Daylight zones have individual lighting controls independent from that of the general area lighting.

Exceptions:

☐ Contiguous daylight zones spanning no more than two orientations are allowed to be controlled by a single controlling device.

☐ Daylight spaces enclosed by walls or ceiling height partitions and containing two or fewer light fixtures are not required to have a separate switch for general area lighting.

☑ 4. Independent controls for each space (switch/occupancy sensor).

Exceptions:

☐ Areas designated as security or emergency areas that must be continuously illuminated.

☐ Lighting in stairways or corridors that are elements of the means of egress.

N/A ☐ 5. Master switch at entry to hotel/motel guest room.

N/A ☐ 6. Individual dwelling units separately metered.

N/A ☐ 7. Medical task lighting or art/history display lighting claimed to be exempt from compliance has a control device independent of the control of the nonexempt lighting.

☑ 8. Each space required to have a manual control also allows for reducing the connected lighting load by at least 50 percent by either controlling all luminaires, dual switching of alternate rows of luminaires, alternate luminaires, or alternate lamps, switching the middle lamp luminaires independently of other lamps, or switching each luminaire or each lamp.

Exceptions:

☐ Only one luminaire in space.

☐ An occupant-sensing device controls the area.

☐ The area is a corridor, storeroom, restroom, public lobby or sleeping unit.

☐ Areas that use less than 0.6 Watts/sq.ft.

N/A ☐ 9. Automatic lighting shutoff control in buildings larger than 5,000 sq.ft.

Exceptions:

☐ Sleeping units, patient care areas; and spaces where automatic shutoff would endanger safety or security.

☑ 10. Photocell/astronomical time switch on exterior lights.

Exceptions:

☐ Lighting intended for 24 hour use.

N/A ☐ 11. Tandem wired one-lamp and three-lamp ballasted luminaires (No single-lamp ballasts).

Exceptions:

☐ Electronic high-frequency ballasts; Luminaires on emergency circuits or with no available pair.

Section 5: Compliance Statement

Compliance Statement: The proposed lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2009 IECC requirements in COMcheck Version 4.1.5.1 and to comply with the mandatory requirements in the Requirements Checklist.

Rafael Londono, PE — Name - Title
Signature — Date: 03/22/2021

COM*check* Software Version 4.1.5.1

Exterior Lighting Compliance Certificate

Section 1: Project Information

Energy Code: **2009 IECC**
Project Title: AAA Storage Offices
Project Type: New Construction
Exterior Lighting Zone: 1 (Developed rural area)

Construction Site:
Beaufort, SC

Owner/Agent:
Michael Griffith
Michael Griffith, AIA
P.O. Box 3527
Bluffton, SC 29910
843.825.4282
griffarch@aol.com

Designer/Contractor:
Rafael Londoño
Londoño Engineering
P.O. Box 433
Beaufort, SC 29901
843.263.1792
rlondono@londonoengineering.com

Section 2: Exterior Lighting Area/Surface Power Calculation

A Exterior Area/Surface	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B x C)	F Proposed Watts
Main entry	3 ft of door width	20	Yes	60	126
Other door (not main entry)	3 ft of door width	20	Yes	60	108
			Total Tradable Watts* =	120	234
			Total Allowed Watts =	120	
			Total Allowed Supplemental Watts** =	500	

* Wattage tradeoffs are only allowed between tradable areas/surfaces.
** A supplemental allowance equal to 500 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Section 3: Exterior Lighting Fixture Schedule

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Main entry (3 ft of door width): Tradable Wattage				
LED 4: D: Other:	1	1	12	12
LED 5: F: Other:	1	2	12	24
LED 6: G: Other:	1	6	15	90
Other door (not main entry) (3 ft of door width): Tradable Wattage				
LED 5: F: Other:	1	9	12	108
			Total Tradable Proposed Watts =	234

Section 4: Requirements Checklist

Lighting Wattage:

☑ 1. Within each non-tradable area/surface, total proposed watts must be less than or equal to total allowed watts. Across all tradable areas/surfaces, total proposed watts must be less than or equal to total allowed watts.
Compliance: Passes using supplemental allowance watts.

Controls, Switching, and Wiring:

☑ 2. All exemption claims are associated with fixtures that have a control device independent of the control of the nonexempt lighting.

☑ 3. Lighting not designated for dusk-to-dawn operation is controlled by either a a photosensor (with time switch), or an astronomical time switch.

☑ 4. Lighting designated for dusk-to-dawn operation is controlled by an astronomical time switch or photosensor.

☑ 5. All time switches are capable of retaining programming and the time setting during loss of power for a period of at least 10 hours.

Exterior Lighting Efficacy:

N/A ☐ 6. All exterior building grounds luminaires that operate at greater than 100W have minimum efficacy of 60 lumen/watt.

Exceptions:

☐ Lighting that has been claimed as exempt and is identified as such in Section 3 table above.

☐ Lighting that is specifically designated as required by a health or life safety statue, ordinance, or regulation.

☐ Emergency lighting that is automatically off during normal building operation.

☐ Lighting that is controlled by motion sensor.

Exterior Lighting PASSES: Design 62% better than code.

Section 5: Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2009 IECC requirements in COMcheck Version 4.1.5.1 and to comply with the mandatory requirements in the Requirements Checklist.

Rafael Londono, PE — Name - Title
Signature — Date: 03/22/2021

COM*check* Software Version 4.1.5.1

Mechanical Compliance Certificate

Section 1: Project Information

Energy Code: **2009 IECC**
Project Title: AAA Storage Offices
Project Type: New Construction

Construction Site:
Beaufort, SC

Owner/Agent:
Michael Griffith
Michael Griffith, AIA
P.O. Box 3527
Bluffton, SC 29910
843.825.4282
griffarch@aol.com

Designer/Contractor:
Rafael Londoño
Londoño Engineering
P.O. Box 433
Beaufort, SC 29901
843.263.1792
rlondono@londonoengineering.com

Section 2: General Information

Building Location (for weather data): Beaufort, South Carolina
Climate Zone: 3a

Section 3: Mechanical Systems List

Quantity **System Type & Description**

1 HVAC System 1 (Single Zone) : Split System Heat Pump
Heating Mode: Capacity = 35 kBtu/h,
Proposed Efficiency = 8.00 HSPF, Required Efficiency = 7.70 HSPF
Cooling Mode: Capacity = 48 kBtu/h,
Proposed Efficiency = 16.00 SEER, Required Efficiency: 13.00 SEER
Fan System: None

Section 4: Requirements Checklist

Requirements Specific To: HVAC System 1 :

☑ 1. Equipment minimum efficiency: Heat Pump: 7.70 HSPF 13.00 SEER

Generic Requirements: Must be met by all systems to which the requirement is applicable:

☑ 1. Plant equipment and system capacity no greater than needed to meet loads
Exception(s):
☐ Standby equipment automatically off when primary system is operating
☐ Multiple units controlled to sequence operation as a function of load

☑ 2. Minimum one temperature control device per system

☑ 3. Minimum one humidity control device per installed humidification/dehumidification system

☑ 4. Load calculations per ASHRAE/ACCA Standard 183.

☑ 5. Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup
Exception(s):
☐ Continuously operating zones

☑ 6. Outside-air source for ventilation; system capable of reducing OSA to required minimum

☑ 7. R-5 supply and return air duct insulation in unconditioned spaces
R-8 supply and return air duct insulation outside the building
R-8 insulation between ducts and the building exterior when ducts are part of a building assembly
Exception(s):
☐ Ducts located within equipment
☐ Ducts with interior and exterior temperature difference not exceeding 15°F.

☑ 8. Mechanical fasteners and sealants used to connect ducts and air distribution equipment

☑ 9. Ducts sealed - longitudinal seams on rigid ducts; transverse seams on all ducts; UL 181A or 181B tapes and mastics

☑ 10. Hot water pipe insulation: 1.5 in. for pipes <=1.5 in. and 2 in. for pipes >1.5 in.
Chilled water/refrigerant/brine pipe insulation: 1.5 in. for pipes <=1.5 in. and 1.5 in. for pipes >1.5 in.
Steam pipe insulation: 1.5 in. for pipes <=1.5 in. and 3 in. for pipes >1.5 in.
Exception(s):
☐ Piping within HVAC equipment.
☐ Fluid temperatures between 55 and 105°F.
☐ Fluid not heated or cooled with renewable energy.
☐ Piping within room fan-coil (with AHRI440 rating) and unit ventilators (with AHRI840 rating).
☐ Runouts <4 ft in length.

☑ 11. Operation and maintenance manual provided to building owner

☑ 12. Balancing devices provided in accordance with IMC 603.17

N/A ☐ 13. Demand control ventilation (DCV) present for high design occupancy areas (>40 person/1000 ft2 in spaces >500 ft2) and served by systems with any one of 1) an air-side economizer, 2) automatic modulating control of the outdoor air damper, or 3) a design outdoor airflow greater than 3000 cfm.
Exception(s):
☐ Systems with heat recovery.
☐ Multiple-zone systems without DDC of individual zones communicating with a central control panel.
☐ Systems with a design outdoor airflow less than 1200 cfm.
☐ Spaces where the supply airflow rate minus any makeup or outgoing transfer air requirement is less than 1200 cfm.

☑ 14. Motorized, automatic shutoff dampers required on exhaust and outdoor air supply openings
Exception(s):
☐ Gravity dampers acceptable in buildings <3 stories

☑ 15. Automatic controls for freeze protection systems present

N/A ☐ 16. Exhaust air heat recovery included for systems 5,000 cfm or greater with more than 70% outside air fraction or specifically exempted
Exception(s):
☐ Hazardous exhaust systems, commercial kitchen and clothes dryer exhaust systems that the International Mechanical Code prohibits the use of energy recovery systems.
☐ Systems serving spaces that are heated and not cooled to less than 60°F.
☐ Where more than 60 percent of the outdoor heating energy is provided from site-recovered or site solar energy.
☐ Heating systems in climates with less than 3600 HDD.
☐ Cooling systems in climates with a 1 percent cooling design wet-bulb temperature less than 64°F.
☐ Systems requiring dehumidification that employ energy recovery in series with the cooling coil.
☐ Laboratory fume hood exhaust systems that have either a variable air volume system capable of reducing exhaust and makeup air volume to 50 percent or less of design values or, a separate make up air supply meeting the following makeup air requirements: a) at least 75 percent of exhaust flow rate, b) heated to no more than 2°F below room setpoint temperature, c) cooled to no lower than 3°F above room setpoint temperature, d) no humidification added, e) no simultaneous heating and cooling.

Section 5: Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2009 IECC requirements in COMcheck Version 4.1.5.1 and to comply with the mandatory requirements in the Requirements Checklist.

Rafael Londono, PE — Name - Title
Signature — Date: 03/22/2021

Section 6: Post Construction Compliance Statement

☐ HVAC record drawings of the actual installation, system capacities, calibration information, and performance data for each equipment provided to the owner.

☐ HVAC O&M documents for all mechanical equipment and system provided to the owner by the mechanical contractor.

☐ Written HVAC balancing and operations report provided to the owner.

The above post construction requirements have been completed.

Principal Mechanical Designer-Name — Signature — Date

LONDOÑO engineering
P.O. Box 433 Beaufort, SC 29901
843.263.1792
LondonoEngineering.com

SOUTH CAROLINA — LONDOÑO ENGINEERING LLC — No. 4758 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — LICENSED PROFESSIONAL ENGINEER — No. 23530 — RAFAEL LONDOÑO

03/22/2021

ISSUED FOR:
PERMIT

A NEW BUILDING FOR:
AAA STORAGE OFFICES
BEAUFORT, SC

COMCHECK REPORTS

REV.	DATE	DESCRIPTION	REV. BY

PROJECT NO.	2021.02.01
DRAWN BY	JM
CHECKED BY	RL
DATE	03/22/2021

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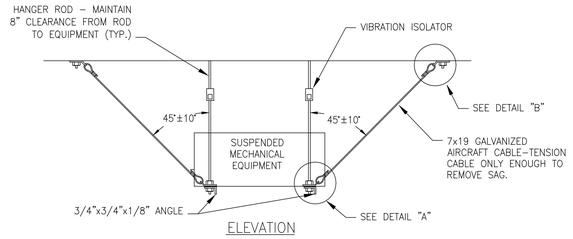
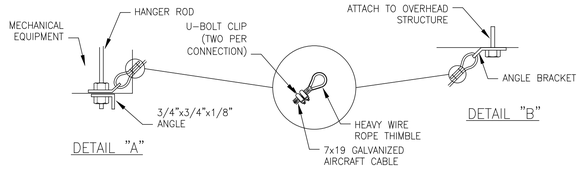


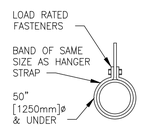
ELEVATION

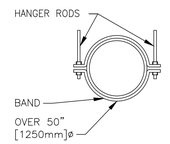


EQUIPMENT SEISMIC RESTRAINT DETAIL

SCHEMATIC ONLY

HANGER STRAPS OR RODS			
MAX. DUCT ø IN. [mm]	QUANTITY/SIZE IN. [mm]	MAX. LOAD LBS. [kg]	MAX. SPACING IN. [mm]
26 [650]	ONE 1 [25] x 22 GA STRAP	260 [119]	144 [3600]
36 [900]	ONE 1 [25] x 18 GA STRAP	420 [190]	144 [3600]
50 [1250]	ONE 1 [25] x 16 GA STRAP	700 [317]	144 [3600]
60 [1500]	TWO 3/8 [10]ø. RODS	1320 [598]	144 [3600]
84 [2100]	TWO 1/2 [13]ø RODS	2500 [1133]	144 [3600]



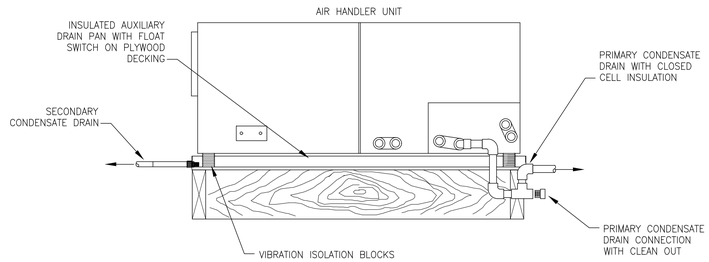


NOTE:
TABULATED DATA FROM SMACNA ALLOWS FOR DUCT REINFORCING AND INSULATION, BUT NO EXTERNAL LOAD.

DUCT SEISMIC RESTRAINT

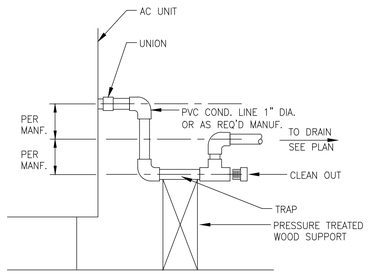
SCHEMATIC ONLY

NOTE:
ADDITIONAL SEISMIC RESTRAINT INFORMATION TO BE PROVIDED BY A STRUCTURAL ENGINEER.



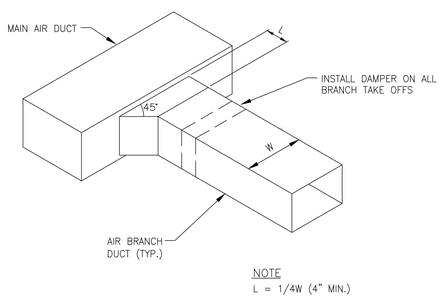
ATTIC HORIZONTAL INSTALLATION

SCHEMATIC ONLY



TYPICAL CONDENSATE DRAIN

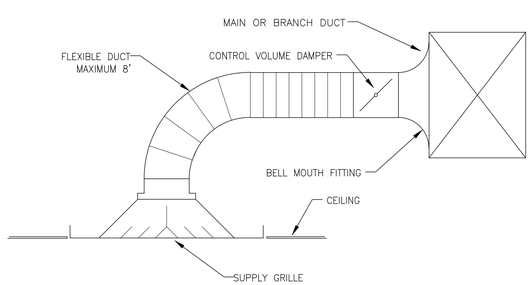
SCHEMATIC ONLY



NOTE
L = 1/4W (4" MIN.)

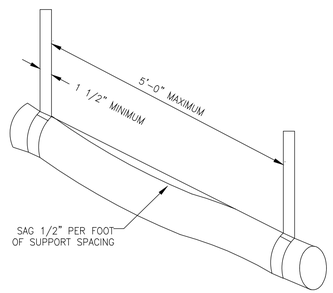
BRANCH DUCT DETAIL

SCHEMATIC ONLY



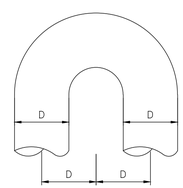
CEILING DIFFUSER DETAIL

SCHEMATIC ONLY



FLEXIBLE DUCT SUPPORT

SCHEMATIC ONLY



FLEXIBLE DUCT BEND RADIUS

SCHEMATIC ONLY

HVAC DETAILS

LONDOÑO engineering
P.O. Box 433 Beaufort, SC 29901
843.263.1792
LondonoEngineering.com

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION LONDOÑO ENGINEERING LLC No. 4758

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 23530 RAFAEL LONDOÑO

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AIR DISTRIBUTION SCHEDULE

MARK	MANUFACTURER	MODEL #	TRIM	THROW	FINISH	REMARKS
D1	TITUS	TDC *	SUPPLY – CEILING	AS INDICATED	WHITE	PROVIDE FLUSH FRAME FOR GYP BD. CEILINGS
R1	TITUS	350 *	RETURN – CEILING	RETURN / EXHAUST	WHITE	PROVIDE FLUSH FRAME FOR GYP BD. CEILINGS

* VERIFY CEILING TYPE FOR FRAME STYLE (S–SURFACE, R–RECESSED, B–BEVELED, T–TEE FRAME. TEE FRAME REQUIRES ALUMINUM LAY–IN PANEL)

FAN SCHEDULE

MARK	SERVES	MANUFACTURER	MODEL #	CFM	HP	ESP	ELECTRICAL	REMARKS
EF–1	TOILET EXHAUST	COOK	CG–146	75	–	.25	120V, 1ø	CEILING MOUNTED EXHAUST FAN PROVIDED AND INSTALLED BY M.C. WIRED BY E.C.
EF–2	SHOWER EXHAUST	COOK	CG–146	75	–	.25	120V, 1ø	CEILING MOUNTED EXHAUST FAN PROVIDED AND INSTALLED BY M.C. WIRED BY E.C.

AIR CONDITIONING UNIT SCHEDULE

SYMBOL		HP–1/AH–1
MANUFACTURER (BASIS OF DESIGN) *		CARRIER
SPLIT SYSTEM	INDOOR OUTDOOR	FV4CNF005L00 (AH) 25HCB648A003 (HP)
REFRIGERANT		R410A
EFFICIENCY		16 SEER
CFM		1,450
CAPACITY ARI STD.	HEATING	34.65 MBH
	COOLING	47.97 MBH
ELECTRICAL DATA	VOLTAGE: INDOOR OUTDOOR	 208/240 V, 1ø 208/240 V, 1ø
	AUXILIARY HEAT	5.0 KW
	MIN. CIRC. AMPS: INDOOR OUTDOOR	 33.5 (AH) 29.8 (HP)
	MAX. FUSE AMPS: INDOOR OUTDOOR	 35 (AH) 50 (HP)
OUTSIDE AIR (CFM)		250
WEIGHT (LBS)	INDOOR OUTDOOR	172 (AH) 339 (HP)
NOTE		–
ACCESSORIES		–KSALA0301410 LOW–AMBIENT PRESSURE SWITCH FOR HP –KHAIR0201AAA ISOLATION RELAY FOR HP –KSAFT0101AAA EVAPORATOR FREEZE THERMOSTAT FOR HP –TP–PRH01–B PROGRAMMABLE TSTAT FOR HP –KSAHS2801AAA START ASSIST FOR HP –KFAHD0101SLP GASKET KIT FOR AH

* PROVIDE INDICATED UNIT OR UNIT OF EQUAL PERFORMANCE AND QUALITY.

GENERAL MECHANICAL NOTES

1. THE HVAC SYSTEM SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF THE IMC.
2. THIS DRAWING IS SCHEMATIC IN NATURE ONLY. EXACT ROUTING, SIZE AND LOCATION OF DUCTS, REGISTERS AND EQUIPMENT SHALL DEPEND ON LOCAL CONDITIONS AND CODE REQUIREMENTS.
3. DRAWINGS SHOW GENERAL ARRANGEMENTS OF DUCTS AND DO NOT NECESSARY SHOW ALL OFFSETS, FITTINGS, DEVICES, ETC.. AVOID STRUCTURAL OBSTRUCTIONS AND/OR OTHER INTERFERENCE. WHERE SHAPE OF DUCT IS VARIED, ALTER DIMENSION TO PROVIDE EQUAL STATIC PRESSURE DROP PER UNIT OF LENGTH.
4. ALL DUCTS TO BE RUN ABOVE CEILING UNLESS NOTED OTHERWISE.
5. DUCT SIZES SHOWN ON DRAWINGS ARE INTERIOR DIMENSIONS. DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE.
6. LOCATION OF AIR OUTLETS IS APPROXIMATE. FINAL LOCATION TO BE DETERMINED BY ARCHITECT.
7. FINISH AND LOCATION OF ALL EXTERIOR GRILLES, LOUVERS AND MECHANICAL EQUIPMENT SHALL BE APPROVED BY ARCHITECT/OWNER.
8. OUTDOOR AIR INTAKES AND EXHAUSTS SHALL BE SCREENED WITH A CORROSION RESISTANT MATERIAL NOT LARGER THAN 1/2" MESH. FRESH AIR INTAKES SHALL NOT BE LOCATED CLOSER THAN 10' FROM ANY CHIMNEY OR VENT OUTLET, OR SANITARY SEWER VENT OUTLET, UNLESS SUCH VENT OUTLET IS NOT LESS THAN 24" ABOVE THE FRESH AIR INLET. EXHAUST DUCTS SHALL HAVE BACKDRAFT DAMPERS
9. COORDINATE EXACT LOCATION AND SIZE OF ALL WALL AND ROOF OPENINGS WITH GENERAL CONTRACTOR.
10. AIR OUTLETS SHALL BE PROVIDED WITH FRAME SUITABLE FOR CEILING TYPE SHOWN ON ARCHITECTURAL DRAWINGS. COORDINATE ACTUAL LOCATION WITH LIGHTING LAYOUT AND ARCHITECTURAL CEILING PLAN. COORDINATE LAYOUT OF EXPOSED DUCTS, AIR OUTLETS AND RETURNS WITH REFLECTED CEILING PLANS.
11. HVAC CONTRACTOR TO VERIFY ALL EQUIPMENT REQUIREMENTS WITH OWNER PRIOR TO BEGINNING WORK.
12. HVAC CONTRACTOR TO SUPPLY SUBMITTALS ON ALL EQUIPMENT TO OWNER FOR APPROVAL PRIOR TO BEGINNING WORK.
13. HVAC CONTRACTOR TO SUPPLY OPPOSED BLADE DAMPERS (O.B.D.) IN ALL SUPPLY REGISTERS TO ACHIEVE PROPER AIR DISTRIBUTION AND BALANCE.
14. HVAC CONTRACTOR TO COORDINATE LOCATIONS OF AIR HANDLER PANS AND CONDENSATE DRAINS WITH PLUMBING CONTRACTOR/ARCHITECT.
15. HVAC CONTRACTOR TO COORDINATE HVAC CONDENSATION DRAIN, AND AIR HANDLER PAN TIE–IN LOCATIONS WITH PLUMBING CONTRACTOR, AND ARCHITECT.
16. FIRST 10' SUPPLY DUCT LINED W/1" DUCT LINER.
17. RETURN DUCT/PLENUM LINED W/1" DUCT LINER.
18. SUPPLY & RETURN DUCTS IN UNCONDITIONED SPACES MUST BE INSULATED PER THE LATEST ADOPTED EDITION OF THE IECC. FLAME SPREAD & SMOKE DEVELOPED FOR INSULATION SHALL BE PER THE LATEST ADOPTED EDITION OF THE IMC.
19. SUPPLY & RETURN DUCTS & PLENUMS OUTSIDE THE BUILDING MUST BE INSULATED TO A MINIMUM OF R–8. FLAME SPREAD & SMOKE DEVELOPED FOR INSULATION SHALL BE PER THE LATEST ADOPTED EDITION OF THE IMC.
20. ALL WORK SHALL BE PERFORMED BY SKILLED MECHANICS, UNDER COMPETENT SUPERVISION, EMPLOYING LATEST & BEST PRACTICES OF THE TRADE. WORK SHALL BE INSTALLED IN ACCORDANCE W/RECOMMENDATIONS OF ASHRAE GUIDE, AND EQUIPMENT MANUFACTURER.
21. HVAC INSTALLER SHALL BALANCE AIR TO SPECIFIED QUANTITY AND REPORT CFM DELIVERY AT EACH SUPPLY AND RETURN REGISTER TO OWNER PRIOR TO RECEIVING FINAL PAYMENT.
22. ALL JOINTS & SEAMS MUST HAVE FIBERGLASS TAPE AND MASTIC, AND SEALED TO SMACNA SEAL CLASS C PER THE LATEST ADOPTED EDITION OF THE IMC.
23. ALL JOINTS ON ROUND METAL DUCT TO HAVE 4 SCREWS, 90 DEGREES APART.
24. SPLIT SYSTEM UNITS TO HAVE 400 MICRONS MIN. ON TUBING EVACUATION.
25. IONIZATION TYPE SMOKE DETECTOR SHALL BE INSTALLED PER THE LATEST ADOPTED EDITION ON THE IMC, NFPA 72 5–3.5, 5–10 & NFPA 90 4–4. INTERLOCK FOR AIR HANDLER FAN SHUTDOWN & AUDIBLE/VISUAL ALARM. (RECIRCULATING AIR SYSTEMS WITH A FAN CAPACITY GREATER THAN 2,000 CFM OR SERVING AN AREA USED FOR EGRESS SHALL AUTOMATICALLY SHUT DOWN BY MEANS OF AN APPROVED SMOKE DETECTOR PLACED IN THE RETURN AIR STREAM PRIOR TO ANY EXHAUSTING FROM THE BUILDING OR MIXING WITH FRESH AIR MAKEUP.)
26. SUPPLY AIR BRANCH DUCTS SHALL HAVE EXTRACTORS AND VOLUME DAMPERS TO ALLOW FOR BALANCING.
27. ALL THERMOSTATS TO HAVE LOCKING COVERS.
28. CONTRACTOR TO SUPPLY FILTERS FOR ALL HVAC EQUIPMENT.
29. CONDENSATE DRAINS SHALL BE PER THE LATEST ADOPTED EDITION OF THE IMC.
30. CONTRACTOR TO VERIFY STRUCTURAL REQUIREMENTS WITH OWNER ON ALL AIR HANDLERS AND ROOFTOP UNITS.
31. THERMOSTATS TO BE PROGRAMMABLE SET BACK TYPE WITH AUTOMATIC CHANGEOVER AND SHALL MEET THE REQUIREMENTS OF ASHRAE 90.1 (MODEL ENERGY CODE) SECTIONS 403.2.6.3, 403.2.6.4 AND 403.2.7.1.
32. DUCTWORK TO BE CONSTRUCTED & INSTALLED PER SMACNA HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE; SMACNA FIBROUS GLASS DUCT CONSTRUCTION STANDARDS; ASHRAE 90.1 (MODEL ENERGY CODE) SECTION 403.2.9.3; AND PER THE LATEST EDITION OF THE IMC.
33. CONTRACTOR SHALL PROVIDE OWNER OPERATION AND MAINTENANCE MANUALS FOR THE ENTIRE HVAC SYSTEM PER ASHRAE 90.1 (MODEL ENERGY CODE) SECTION 403.2.10.1 PRIOR TO THE RECEIPT OF FINAL PAYMENT.
34. CONDENSER COILS SHOULD BE HERESITE OR EPOXY COATED FOR CORROSION RESISTANCE. AS AN ALTERNATIVE, COPPER FINS/COPPER TUBES OR ALUMINUM FINS/ALUMINUM TUBES ARE ACCEPTABLE.
35. EVERY PORTION OF ANY KITCHEN EXHAUST HOOD AND EXHAUST DUCT SHALL HAVE A CLEARANCE FROM COMBUSTIBLE CONSTRUCTION OF NOT LESS THAN 18".
36. AUTOMATIC FIRE EXTINGUISHING EQUIPMENT SPECIFICALLY APPROVED FOR THIS TYPE OF SERVICE SHALL BE INSTALLED IN ACCORDANCE WITH THE TERMS OF THEIR LISTING. AT LEAST ONE MANUAL CONTROL FOR ACTIVATION SHALL BE LOCATED A MINIMUM OF 10' AND A MAXIMUM OF 20' FROM THE COOKING EQUIPMENT.
37. PROVIDE SHEET METAL DUCT ONLY. WHERE FLEXIBLE RUNOUTS ARE PERMITTED, RUNOUTS SHALL BE TO OUTLETS LIMITED TO SIX FEET.

HVAC SCHEDULES

LONDOÑO engineering
P.O. Box 433 Beaufort, SC 29901
843.263.1792
LondonoEngineering.com

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BEAUFORT, SC

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PROJECT NO. 2021.02.01
DRAWN BY JM
CHECKED BY RL
DATE 03/22/2021

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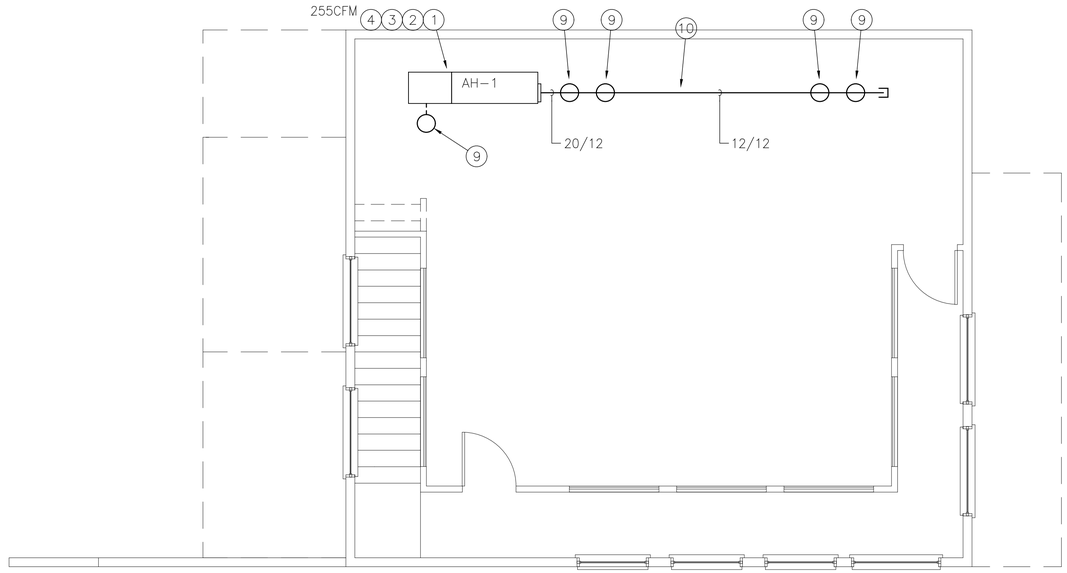
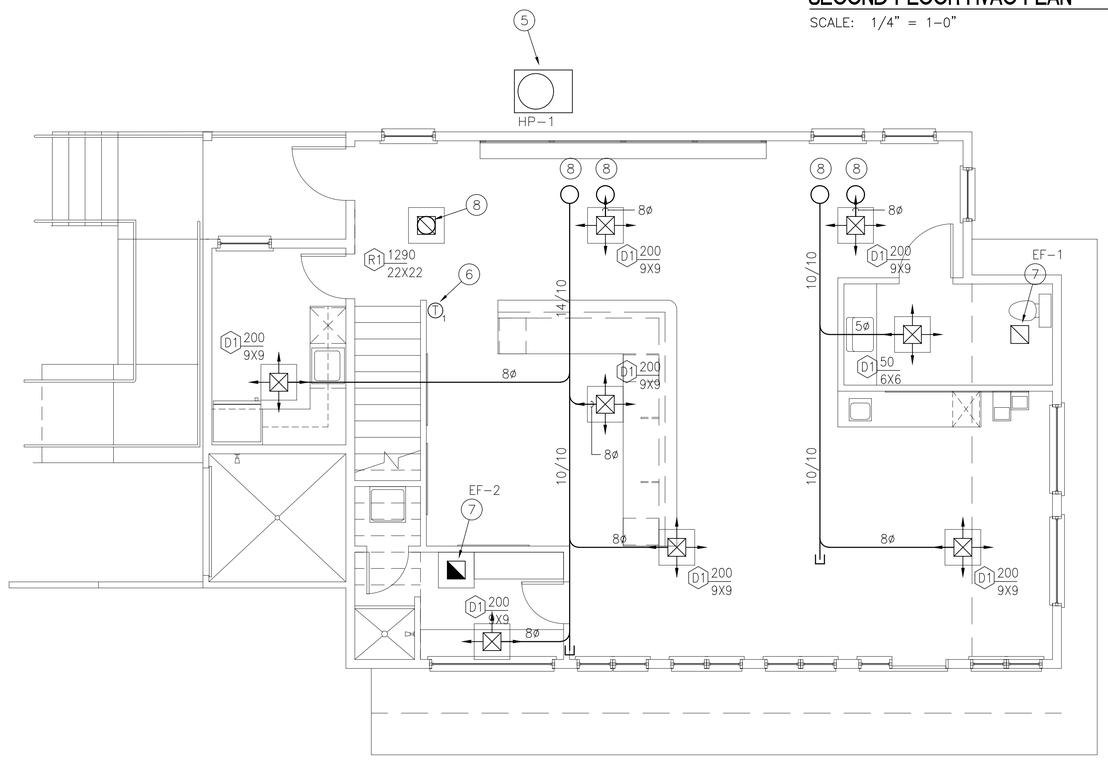


SECOND FLOOR HVAC PLAN

SCALE: 1/4" = 1-0"

2 / M101



FIRST FLOOR HVAC PLAN

SCALE: 1/4" = 1-0"

1 / M101

KEYED NOTES
(THIS SHEET ONLY)

1. AIR HANDLER ON ATTIC FLOOR. COORDINATE LOCATION WITH OWNER.
2. CONDENSATE & DRAIN PAN LINES TO EXTERIOR OF BUILDING W/90° ELBOW DOWN @6" AFG (3/4"). VERIFY LOCATION W/ARCHITECT.
3. RA PLENUM MINIMUM FULL SIZE OF OPENING ON UNIT.
4. VENTILATION AIR DUCT TO EXTERIOR GRILLE W/INSECT SCREEN LOCATED ON GABLE. COORDIMATE LOCATION WITH ARCHITECT. PROVIDE 8" DUCT FROM RETURN AIR BOX AT AIR HANDLER TO INTAKE GRILLE.
5. HEAT PUMP. COORDINATE LOCATION WITH OWNER.
6. THERMOSTAT. CONNECT TO RESPECTIVE HVAC SYSTEM.
7. CEILING EXHAUST FAN. EXHAUST DUCT TO EXTERIOR WALL CAP W/INSECT SCREEN & BACKDRAFT DAMPER.
8. DUCT UP TO ABOVE ATTIC FLOOR. SEE SECOND FLOOR HVAC PLAN FOR CONTINUATION.
9. DUCT DOWN TO FIRST FLOOR CEILING. RUN BETWEEN JOISTS. SEE FIRST FLOOR HVAC PLAN FOR CONTINUATION.
10. DUCT ON ATTIC FLOOR. RUN TIGHT TO WALL.

NOTES:
-THIS DESIGN IS BASED ON INFORMATION PROVIDED TO THE ENGINEER AT TIME OF DESIGN.

LONDOÑO engineering
P.O. Box 433 Beaufort, SC 29901
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A NEW BUILDING FOR:
AAA STORAGE
OFFICES
BEAUFORT, SC

HVAC PLANS

REV.	DATE	DESCRIPTION	REV. BY

PROJECT NO.	2021.02.01
DRAWN BY	JM
CHECKED BY	RL
DATE	03/22/2021

M101

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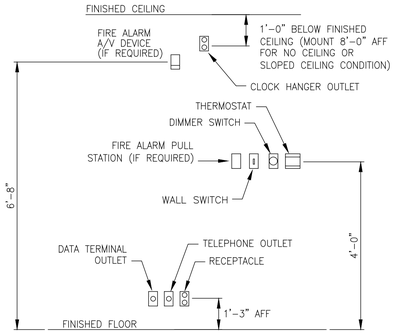
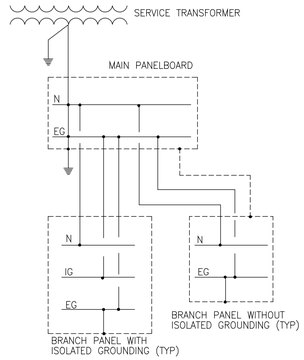


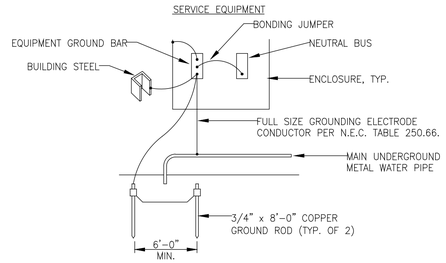
MOUNTING HEIGHTS

SCHEMATIC ONLY



GROUNDING DIAGRAM

SCHEMATIC ONLY

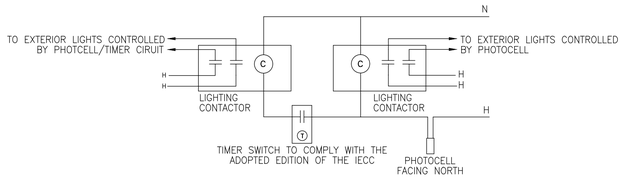


GROUNDING ELECTRODE DETAIL

SCHEMATIC ONLY

ELECTRICAL LEGEND

- RECEPTACLE, DUPLEX, WALL MTD, 16" AFF TO BOTTOM, WP = WEATHER PROOF, GFI = GROUND FAULT INTERRUPTER, C = CEILING MOUNTED
- RECEPTACLE, QUADRA-PLEX, WALL MTD, 16" AFF TO BOTTOM, WP = WEATHER PROOF, GFI = GROUND FAULT INTERRUPTER, C = CEILING MOUNTED
- RECEPTACLE, DUPLEX, FLOOR MTD
- RECEPTACLE, 240V, 3 WIRE, RATING NOTED
- (A) LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT, 2'x4'; LETTER INDICATES TYPE.
- (B) LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT, 1'x4'; LETTER INDICATES TYPE.
- (C) FLUORESCENT LIGHT FIXTURE
- S SWITCH, 120V, 20A, WALL MOUNTED 2 = DPST, 3 = 3WAY, 4 = 4WAY, D = DIMMER, P = PILOT LIGHT, F = FAN, WP = WEATHER PROOF, M = MOTION SENSOR(DUAL TECHNOLOGY)
- CEILING MOUNTED FIXTURE
- WALL MOUNTED FIXTURE
- EXHAUST FAN
- EXHAUST FAN/LIGHT
- DISCONNECT SWITCH
- PANEL BOARD, RECESSED
- PANEL BOARD, SURFACE MOUNTED
- EMERGENCY LIGHT
- EXIT SIGN
- EXIT SIGN WITH EMERGENCY LIGHT
- —— - —— SWITCH LEG IN WALLS OR CEILING
- — — — — POWER LEG IN WALLS OR CEILING
- HOME RUN TO PANEL BOARD
- (J) JUNCTION BOX
- (SD) SMOKE DETECTOR
- (TV) CABLE TV OUTLET
- SPECIAL RECEPTACLE
- TELEPHONE OUTLET
- COMPUTER OUTLET
- DATA/TELEPHONE OUTLET



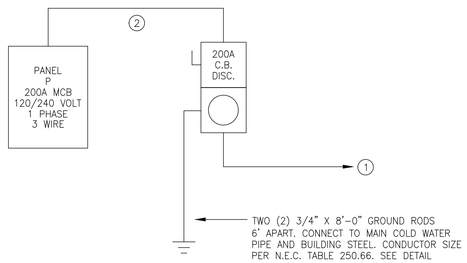
PHOTOCELL/TIMER CIRCUIT DIAGRAM

SCHEMATIC ONLY

ELECTRICAL FEEDER SCHEDULE

MARK	FEEDER	GROUND	CONDUIT	
(1)	1 SET OF 3 #3/0 COPPER	–	1 2" SCH 80 PVC CONDUIT	*
	ALTERNATE: 1 SET OF 3 250 KCM ALUMINUM	–	1 2-1/2" SCH 80 PVC CONDUIT	
(2)	1 SET OF 3 #3/0 COPPER	#4 COPPER	1 1-1/2" SCH 80 PVC CONDUIT	*
	ALTERNATE: 1 SET OF 3 250 KCM ALUMINUM	#2 ALUMINUM	1 2" SCH 80 PVC CONDUIT	

* SCH 40 PVC IS AN ACCEPTABLE SUBSTITUTE



RISER DIAGRAM

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ELECTRICAL DETAILS

LONDOÑO engineering
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SOUTH CAROLINA LONDOÑO ENGINEERING LLC No. 4758 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 23530 RAFAEL LONDOÑO

03/22/2021

ISSUED FOR:
PERMIT

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ELECTRICAL DETAILS

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LIGHT FIXTURE SCHEDULE

MARK	MANUFACTURER	MODEL #	LAMP	REMARKS
A	LITELINE	LEDP-24-WH	40W LED	2X4 LAY IN LED
B	LITELINE	LEDP-22-WH	20W LED	2X2 LAY IN LED
C	KUZCO	VL6224-CH	29W LED	DECORATIVE VANITY FIXTURE
D	LITELINE	S201WS-C35MC-CX-NC1	12W LED	RECESSED LED
EM	NORA	NE-602LED	–	90 MINUTE EMERGENCY LIGHT
ER	NORA	NE-901LEDWCC	–	REMOTE EMERGENCY HEAD
EX	NORA	NEX-730-LED/R	–	EMERGENCY LIGHT/EXIT SIGN COMBINATION
F	LITELINE	RA4S-12RG-90WH	12W LED	RECESSED WET LOCATION LED WALL WASHER
G	LITELINE	FLX15-35-40-F-BK	15W LED	LED EXTERIOR SCONCE
H	LITELINE	LEDP-14-WH	40W LED	1X4 LED. PROVIDE WITH XTLR-14-WH-FKT SURFACE MOUNTING KIT

FAN SCHEDULE

MARK	SERVES	MANUFACTURER	MODEL #	CFM	HP	ESP	ELECTRICAL	REMARKS
EF-1	TOILET EXHAUST	COOK	CG-146	75	–	.25	120V, 1ø	CEILING MOUNTED EXHAUST FAN PROVIDED AND INSTALLED BY M.C. WIRED BY E.C.
EF-2	SHOWER EXHAUST	COOK	CG-146	75	–	.25	120V, 1ø	CEILING MOUNTED EXHAUST FAN PROVIDED AND INSTALLED BY M.C. WIRED BY E.C.

PANEL 'P'

120/240 VOLT, 1 PHASE, 3 WIRE & S/N
SURFACE 200 MCB 22,000 AIC

	CIR	BRKR	WIRE	LOAD DESIGNATION	CIR	BRKR	WIRE	LOAD DESIGNATION	
	1	20-1	2-12	RECEPTACLES-SALES	2	20-1	2-12	RECEPTACLES-RESTROOM	(1)
(1)	3	20-1	2-12	RECEPTACLES-RETAIL	4	20-1	2-12	RECEPTACLES-TVS	
(1)	5	20-1	2-12	RECEPTACLE-REFRIGERATOR	6	20-1	2-12	RECEPTACLES-STORAGE	
(1)	7	20-1	2-12	RECEPTACLE-WATER COOLER	8	20-1	2-12	RECEPTACLES-EXTERIOR	(1)
	9	20-1	2-12	RECEPTACLES-ATTIC	10	20-1	2-12	RECEPTACLES-BREAK ROOM	(1)
(1)	11	20-1	2-12	RECEPTACLE-CART CHARGER	12	20-1	2-12	RECEPTACLE-REFRIGERATOR	
	13	–	–	SPACE	14	–	–	SPACE	
(2)	15	20-1	2-12	LIGHTS	16	–	–	SPACE	
	17	20-1	2-12	LIGHTS	18	35-2	3-8	AH-1	
	19	20-1	2-12	LIGHTS	20				
	21	35-2	3-8	WH-1	22	50-2	3-8	HP-1	
	23				24				

SERVICE LOAD CALCULATIONS

TOTAL CONNECTED LOAD @ 125%:	42,930 VA
TOTAL AMPS @ 125%:	179 AMPS
PANEL SIZE:	200 AMPS

(1) GFCI
(2) CONNECT TO PHOTOCELL/TIMER CIRCUIT

GENERAL ELECTRICAL NOTES

1. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE N.E.C. AND ALL LOCAL CODES AND ORDINANCES.
2. ALL MATERIALS SHALL BE NEW AND SHALL BEAR UNDERWRITERS' LABEL WHERE APPLICABLE.
3. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST-CLASS MANNER. THE COMPLETED SYSTEM IS TO BE FULLY OPERABLE, AND ACCEPTANCE OF THIS SYSTEM BY THE ENGINEER/ARCHITECT MUST BE A CONDITION OF THE SUB CONTRACT.
4. ALL WORK TO BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
5. CONTRACTOR TO GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE.
6. CORRECTION OF ANY DEFECTS TO BE COMPLETED WITHOUT ADDITIONAL CHARGE AND TO INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
7. EMERGENCY & EXIT LIGHTS TO BE POWERED FROM UNSWITCHED LOCAL LIGHTING CIRCUIT PER NEC 700-12(F).
8. EXTEND TWO 1" CONDUITS FROM EACH PANEL, W/PULLWIRE, TO ATTIC JUNCTION BOX (FOR FUTURE CIRCUITS).
9. EXTEND 3/4" CONDUIT ABOVE CEILING TO JUNCTION BOX FOR ALL TELEVISION, TELEPHONE AND SOUND SYSTEM OUTLETS, WITH PULLWIRE UNLESS OTHERWISE NOTED.
10. ELECTRICAL INSTALLATION TO MEET ALL STANDARD REQUIREMENTS OF LOCAL POWER AND TELEPHONE COMPANIES.
11. MINIMUM WIRE SIZE SHALL BE #12 AWG, EXCLUDING CONTROL WIRING. UNLESS OTHERWISE NOTED, ALL CONDUCTORS SHALL BE COPPER WITH THWN/THHN INSULATION. CONDUCTORS #10 AND SMALLER MAY BE SOLID. ALL THOSE #8 AND LARGER TO BE STRANDED.
12. ALL UNDERGROUND RACEWAYS SHALL BE GALVANIZED RIGID STEEL CONDUIT OR SCHEDULE 40 PVC. UNLESS OTHERWISE INDICATED. ALL OTHER RACEWAYS TO COMPLY WITH GOVERNING AUTHORITIES.
13. ALL UNDERGROUND PVC CONDUIT RUNS SHALL HAVE RIGID STEEL ELBOWS AND RIGID STEEL SECTIONS AT SLAB PENETRATIONS WHERE SUBJECT TO POSSIBLE DAMAGE. WHERE RIGID STEEL IS USED, IT SHALL BE COMPLETELY COATED WITH AN ALKALI AND RUST-RESISTANT BITUMASTIC PAINT, KOPPER NO. 50 AND THREADS SHALL BE COATED WITH ZINC CHROMATE.
14. ALL RACEWAYS AND PIPES, SPACED IN OR THROUGH ANY CONCRETE SLAB, SHALL BE SPACED A MINIMUM OF THREE TIMES THE DIAMETER OF THE LARGEST RACEWAY.
15. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS, AND BE OF SPECIAL CONSTRUCTION FOR OTHER CLASSIFIED AREAS. ALL BOXES SHALL BE RECESSED (FLUSH) IN WALLS OR CEILINGS WHENEVER POSSIBLE.
16. DISCONNECT SWITCHES SHALL BE H.P. RATED, GENERAL DUTY, QUICK-MAKE, QUICK-BREAK TYPE. ENCLOSURES SHALL BE AS REQUIRED BY THE LATEST ADOPTED EDITION OF THE N.E.C. AND LOCATION (WEATHERPROOF, EXPLOSION PROOF, ETC.).
17. ALL GENERAL PURPOSE SWITCHES AND RECEPTACLES SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER. CATALOG NUMBERS LISTED ARE LEVITON. HOWEVER, COMPARABLE DEVICES BY PASS & SEYMOUR, BRYANT, OR ARROW HART WILL BE ACCEPTED. COLOR OF DEVICES AND PLATES SHALL BE DICTATED BY ARCHITECT/OWNER.
    A. SWITCHES: SINGLE POLE-LEVITON #5621-2 / THREE WAY-LEVITON #5623-2.
    B. RECEPTACLES: DUPLEX OUTLET-LEVITON #16362 OR 16362-IG.
    C. DIMMERS: LUTRON NOVA SERIES.
    NOTE: ALL REQUIRED DEVICES SHALL MATCH IN COLOR AND STYLE.
18. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM, AND PROVIDE ALL NECESSARY DEVICES AND COMPONENTS FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
19. FURNISH AND INSTALL DISCONNECT SWITCHES, WIRING, AND CONNECTIONS ON AIR CONDITIONING SYSTEM AS SHOWN ON PLANS. ELECTRICAL CONTRACTOR SHALL VERIFY AND COORDINATE WITH MECHANICAL CONTRACTOR REGARDING SUPPLY AND INSTALLATION OF ALL REQUIRED CONTROLS.
20. ALL SWITCH GEAR SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER. SYSTEM DESIGN IS BASED ON THE "SQUARE D CO."; HOWEVER, COMPARABLE DEVICES BY WESTINGHOUSE/CHALLENGER, G.E. AND ITE WILL BE ACCEPTABLE. TANDEM AND HALF-SPACE CIRCUIT BREAKERS SHALL NOT BE USED.
21. THE ELECTRICAL CONTRACTOR SHALL MEET AND COORDINATE WITH THE LOCAL POWER COMPANY AT THE SITE PRIOR TO CONSTRUCTION. AT THAT TIME, THE CONTRACTOR SHALL COORDINATE ALL RELATED WORK WITH THE UTILITY COMPANY'S RESPONSIBILITIES TO MEET THE OWNER'S SCHEDULE.
22. ALL ELECTRICAL CONDUCTORS SHALL BE INSTALLED IN AN APPROVED RACEWAY. MAXIMUM NUMBER OF 120 VOLT CIRCUITS ALLOWED IN A COMMON CONDUIT SHALL BE SIX (6). CONTRACTOR SHALL STRICTLY CONFORM TO THE REQUIREMENTS OF THE LATEST ADOPTED EDITION OF THE N.E.C. OF DERATING FOR CONDUCTOR AMPACITY AND CONDUIT FILL.
23. CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL CONDUIT PENETRATIONS MADE THROUGH FIRE RATED WALLS, CEILINGS, SLABS, ETC.. PENETRATION SEALS SHALL BE PER U.L. ASSEMBLY STANDARDS.
24. ELECTRICAL POWER SUPPLY FOR REQUIRED SMOKE DETECTORS AND OTHER FIRE ALARM REQUIREMENTS SHALL BE FROM A DEDICATED CIRCUIT BREAKER.
25. ELECTRICAL CONTRACTOR TO PROVIDE PERMANENT TYPED CIRCUIT USE LIST IN EACH PANEL.
26. LOAD DATA IS BASED ON INFORMATION GIVEN ENGINEER AT THE TIME OF DESIGN. VERIFY ALL EQUIPMENT NAMEPLATE RATINGS BEFORE ORDERING.
27. CIRCUITS SHOWN ON PLANS ARE TO DETERMINE LOAD DATA AND PANEL SIZES. THE CONTRACTOR IS TO PROVIDE CIRCUITS AND ROUTING OF CONDUITS TO SUIT JOB CONDITIONS.
28. ALL SERVICE ENTRANCE DISCONNECTS SHALL BE PERMANENTLY LABELED FOR THE SPACE THEY SERVE.
29. SIGNAGE SHALL BE PROVIDED FOR ALL ELECTRICAL PANELS STATING THERE WILL BE NO STORAGE WITHIN 36" OF PANELS.
30. ELECTRICAL WIRING SHALL BE IN IN A CONDUIT SYSTEM, PER APPLICABLE SECTIONS OF THE LATEST ADOPTED EDITION OF THE N.E.C., MUNICIPAL AND COUNTY ORDINANCES.

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No. 4758
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 23530
RAFAEL LONDOÑO

03/22/2021

ISSUED FOR:
PERMIT

A NEW BUILDING FOR:
AAA STORAGE OFFICES
BEAUFORT, SC

ELECTRICAL SCHEDULES

REV.	DATE	DESCRIPTION	REV. BY

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E002

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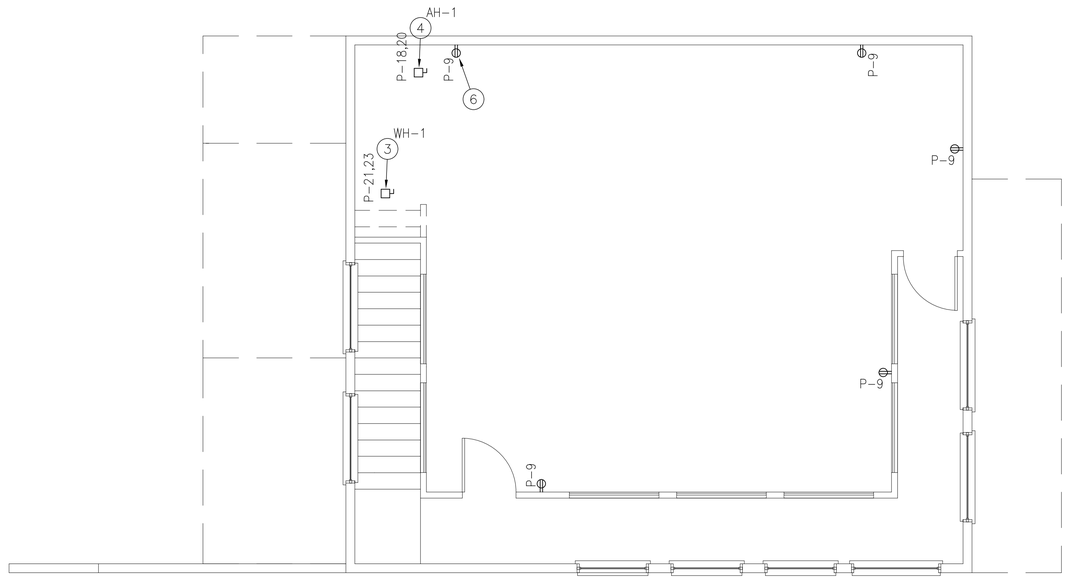
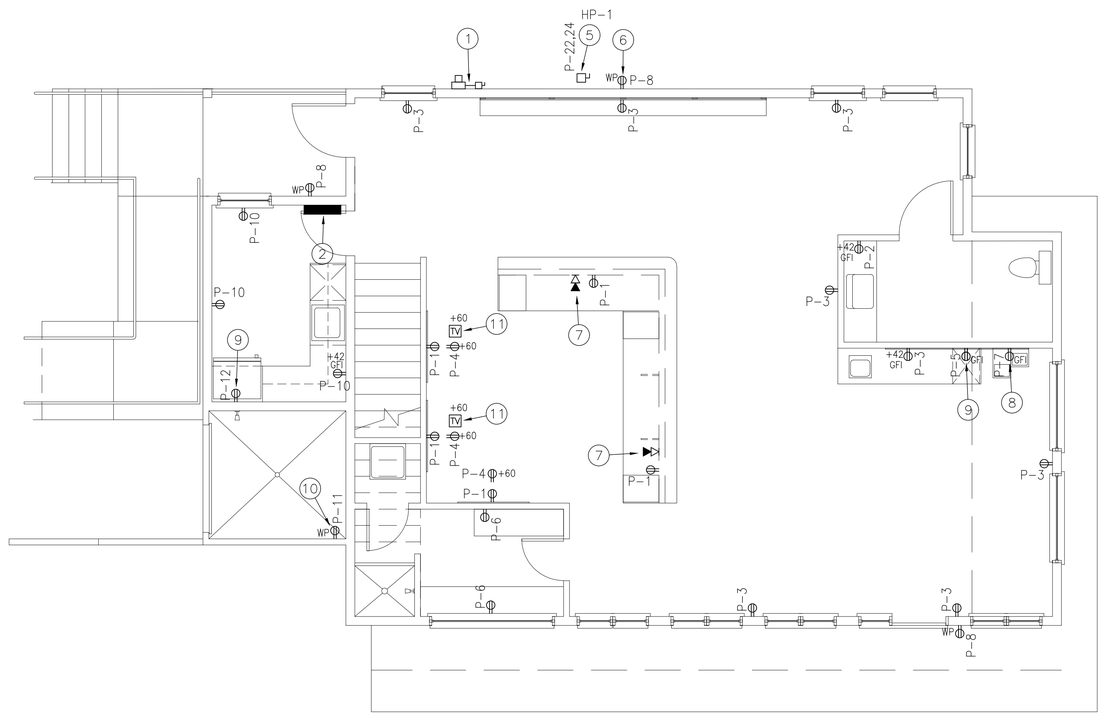


SECOND FLOOR POWER PLAN

SCALE: 1/4" = 1-0"

2 / E101



FIRST FLOOR POWER PLAN

SCALE: 1/4" = 1-0"

1 / E101

KEYED NOTES
(THIS SHEET ONLY)

1. ELECTRICAL METER AND DISCONNECT. COORDINATE LOCATION WITH OWNER.
2. ELECTRICAL PANEL. COORDINATE LOCATION WITH TENANT.
3. DISCONNECT FOR WATER HEATER. COORDINATE LOCATION WITH PLUMBING PLANS.
4. DISCONNECT FOR AIR HANDLER. COORDINATE LOCATION WITH HVAC PLANS.
5. WEATHERPROOF DISCONNECT FOR HEAT PUMP ON THE ROOF. COORDINATE LOCATION WITH HVAC PLANS.
6. RECEPTACLE FOR HVAC MAINTENANCE NEAR AIR HANDLER AND OUTSIDE NEAR HEAT PUMP.
7. COMBINATION COMPUTER/TELEPHONE OUTLET. PROVIDE 1" CONDUIT WITH PULLWIRE TO ABOVE CEILING.
8. DEDICATED GFI RECEPTACLE FOR WATER COOLER.
9. DEDICATED RECEPTACLE FOR REFRIGERATOR.
10. DEDICATED RECEPTACLE FOR CART CHARGER. COORDINATE LOCATION WITH OWNER.
11. CABLE TV OUTLET. PROVIDE 3/4" CONDUIT W/PULLWIRE TO 6" ABOVE CEILING.

NOTES:
-THIS DESIGN IS BASED ON INFORMATION PROVIDED TO THE ENGINEER AT TIME OF DESIGN.

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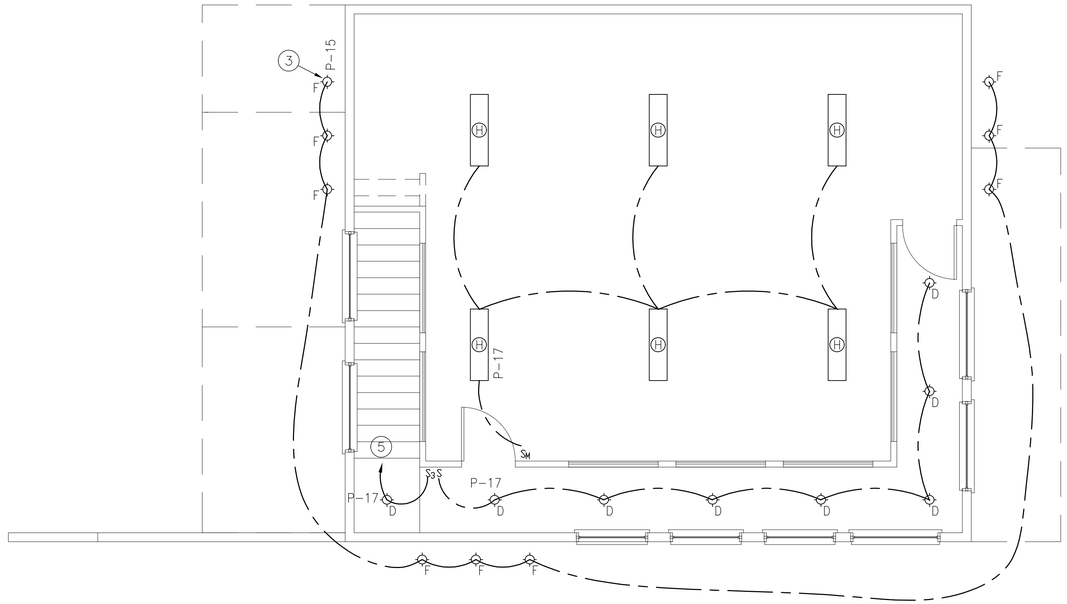
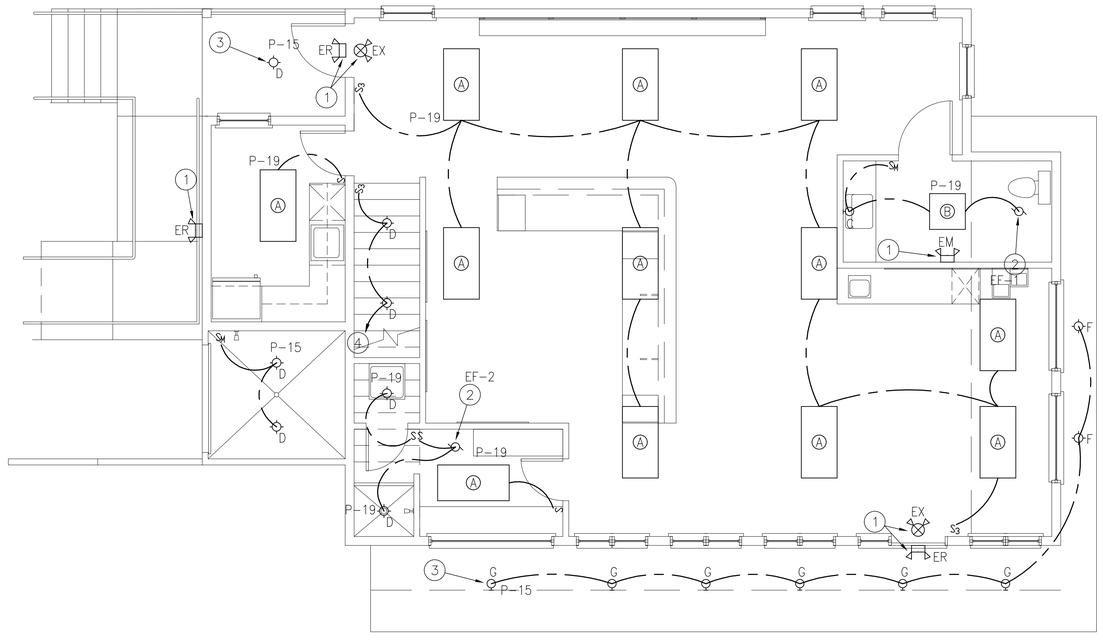


SECOND FLOOR LIGHTING PLAN

SCALE: 1/4" = 1-0"

2 / E201



FIRST FLOOR LIGHTING PLAN

SCALE: 1/4" = 1-0"

1 / E201

KEYED NOTES
(THIS SHEET ONLY)

1. CONNECT TO LOCAL UNSWITCHED LIGHTING CIRCUIT.
2. CEILING EXHAUST FAN. EXHAUST DUCT TO EXTERIOR WALL CAP W/INSECT SCREEN & BACKDRAFT DAMPER. COORDINATE LOCATION WITH ARCHITECT.
3. CONNECT TO PHOTOCELL/TIMER CIRCUIT. SEE DETAIL ON SHEET E001.
4. CONNECT TO LIGHTS ABOVE. SEE SECOND FLOOR LIGHTING PLAN FOR CONTINUATION.
5. CONNECT TO LIGHTS BELOW. SEE FIRST FLOOR LIGHTING PLAN FOR CONTINUATION.

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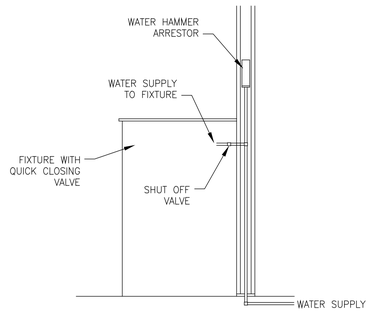

WATER HAMMER ARRESTOR
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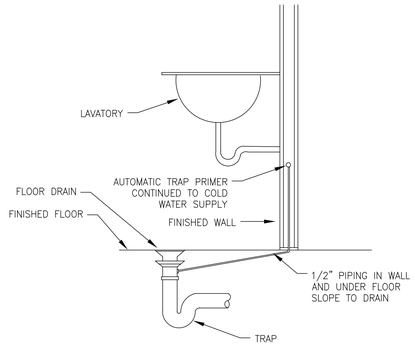
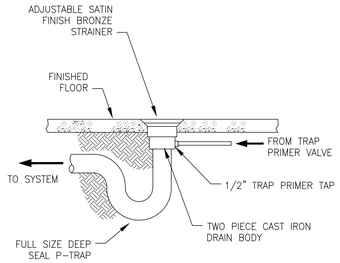
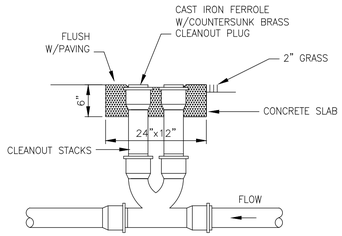


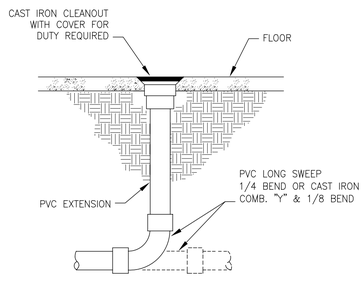
FLOOR DRAIN WITH TRAP PRIMER
SCHEMATIC ONLY



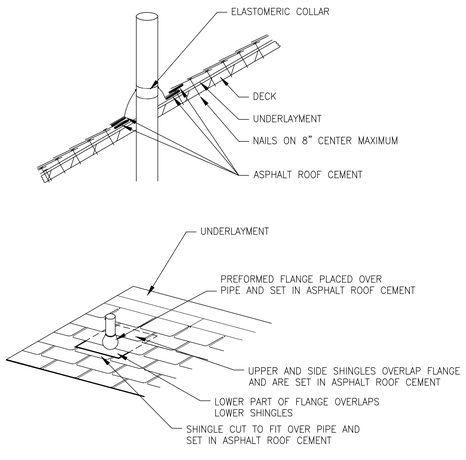
FLOOR DRAIN
SCHEMATIC ONLY



TYPICAL TWO-WAY CLEANOUT
SCHEMATIC ONLY



FLOOR CLEANOUT
SCHEMATIC ONLY



ROOF PENETRATION DETAIL
SCHEMATIC ONLY

PLUMBING DETAILS

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PLUMBING FIXTURE SCHEDULE

MARK	TYPE	MANUFACTURER	MODEL #	TRIM	REMARKS
P-1	WATERCLOSET	AMERICAN STANDARD	215AA.104	AMERICAN STANDARD SEAT: 5350.110	HDCP, TANK TYPE
P-2	LAVATORY	AMERICAN STANDARD	0491.019	AMERICAN STANDARD FAUCET: 7385.003	HDCP, DROP IN
P-3	SERVICE SINK	ELKAY	EFS2523C	ELKAY FAUCET: LK940	LOW FLOOR MODEL
P-4	SINK	DAYTON	KP2-11515-C	INCLUDED	DROP IN STAINLESS STEEL SINK
P-5	WATER COOLER	ELKAY	LZSTL8C	-	TWO LEVEL, HANDICAP ACCESSIBLE
P-6	SHOWER ENCLOSURE	OWNER APPROVED	OWNER APPROVED	MOEN SHOWER VALVE: 82912SRN	PROVIDE WITH ANTI-SCALD VALVE PER IPC
P-7	SHOWER VALVE ONLY	OWNER APPROVED	OWNER APPROVED	MOEN SHOWER VALVE: 82912SRN	PROVIDE WITH ANTI-SCALD VALVE PER IPC

ADDITIONAL PLUMBING FIXTURE INFORMATION BY OWNER

WATER HEATER SCHEDULE

ITEM	SERVICE	MANUFACTURER *	QTY.	CONNECTIONS			INPUT	REMARKS
				CW	HW	GAS		
WH-1	SECOND FLOOR	A.O. SMITH ENJB-40	1	3/4"	3/4"	-	4.5 KW, 240V, 1 PH 19A MCA/25A MCB	MIN. TEMPERATURE SET POINT 90°F PROVIDE 10% EXPANSION TANK MIN.

PLUMBING MATERIALS SCHEDULE

TYPE	MANUFACTURER	MODEL #	TRIM	REMARKS
FLOOR DRAIN	ZURN	ZN-415-5S-P	-	WITH TRAP PRIMER
FLOOR CLEANOUT	ZURN	ZN-1400	-	
WALL CLEANOUT	ZURN	Z-1446	-	
WATER HAMMER ARRESTOR	WATTS	LF05	-	FOR USE WITH 1/2" SUPPLY
WATER HAMMER ARRESTOR	WATTS	LF05A-CH	-	FOR USE WITH 3/4" SUPPLY
HOSE BIBB	WAADE	8600L	-	NON-FREEZE WALL HYDRANT

GENERAL PLUMBING NOTES

1. THE PLUMBING SYSTEM SHALL COMPLY WITH THE ADOPTED EDITION OF THE INTERNATIONAL PLUMBING CODE.
2. THIS DRAWING IS SCHEMATIC IN NATURE ONLY. EXACT ROUTING SHALL BE DEPENDENT ON LOCAL CONDITIONS.
3. DO NOT SCALE PLANS. ROUGHING TO BE PERFORMED FROM ARCHITECTURAL AND EQUIPMENT MANUFACTURER'S DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS.
4. CONTRACTORS TO VERIFY ALL EQUIPMENT REQUIREMENTS WITH OWNER PRIOR TO BEGINNING WORK.
5. PLUMBING CONTRACTOR TO SUPPLY SUBMITTALS ON ALL FIXTURES TO OWNER FOR APPROVAL PRIOR TO BEGINNING WORK.
6. ALL MATERIALS NECESSARY FOR FINAL COMPLETION OF DESIGN SHOWN ON THESE PLANS WILL BE SUPPLIED AND INSTALLED BY PLUMBING CONTRACTOR UNLESS NOTED OTHERWISE.
7. COORDINATE PLUMBING PIPING WITH AIR CONDITIONING DUCTS AND ELECTRICAL CONDUIT.
8. COORDINATE HVAC CONDENSATION DRAIN, WATER HEATER PAN AND AIR HANDLER PAN TIE-IN LOCATIONS WITH MECHANICAL PLAN, HVAC CONTRACTOR, AND ARCHITECT.
8. ALL WATER RUN ABOVE CEILING UNLESS INDICATED OTHERWISE.
9. PROVIDE COPPER PIPING FOR ALL NEW HOT & COLD POTABLE WATER. SIZE AS INDICATED ON DRAWINGS. PEX AND PVC ARE ACCEPTABLE SUBSTITUTES.
10. PROVIDE PVC PIPING FOR ALL NEW SEWER PIPING.
11. PROVIDE BLACK STEEL PIPING OR GALVANIZED STEEL PIPING FOR ALL NEW GAS PIPING.
12. PROVIDE PIPE HANGERS FOR GAS PIPING AT INTERVALS NO GREATER THAN 84" O.C.
13. PROVIDE 12" HIGH AIR HAMMERS AT ALL FIXTURE WATER SUPPLIES ONE PIPE SIZE LARGER THAN RISER.
14. FOR WATER HEATING AND SUPPLY, PROVIDE A MINIMUM TEMP OF 120°F AND A MAXIMUM OF 130°F AT THE FIXTURE, UNLESS SPECIFIC APPLIANCES OR EQUIPMENT SPECIFICALLY REQUIRE HIGHER TEMPERATURE WATER SUPPLY.
15. HEAT TRAPS OR CHECK VALVES SHALL BE INSTALLED ON BOTH COLD AND HOT WATER LINES AT WATER HEATERS WITH VERTICAL RISERS. INSULATION WITH A MINIMUM VALUE OF R-1.0 ON THE FIRST 8 FEET OF OUTLET PIPING AND THE INLET PIPING THRU THE HEAT TRAP OR CHECK VALVE.
16. PROVIDE PADDING ON ALL EXPOSED SUPPLIES AND DRAINS OF LAVATORIES IN MEN'S AND WOMEN'S RESTROOMS, PER HANDICAPPED CODE.
17. INSTALL FIXTURE TRAPS AND TRAP SEALS PER THE ADOPTED EDITION OF THE INTERNATIONAL PLUMBING CODE.

PLUMBING LEGEND

- FD — FLOOR DRAIN
- FS — FLOOR SINK
- W — CLEANOUT (WALL)
- F — CLEANOUT (FLOOR)
- G — CLEANOUT (GRADE)
- SHUT-OFF VALVE AND BOX
- HB — 3/4" FREEZEPROOF HOSE BIBB, WITH BACKFLOW PREVENTER
- SANITARY SEWER LINE (NEW)
- SANITARY SEWER LINE (EXISTING)
- GW — GREASE WASTE (NEW)
- GW — GREASE WASTE (EXISTING)
- VENT LINE
- HOT WATER
- COLD WATER
- GAS — NATURAL GAS
- POINT OF CONNECTION

PLUMBING SCHEDULES

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SOUTH CAROLINA
LONDOÑO ENGINEERING LLC
No. 4758
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 23530
RAFAEL LONDOÑO

03/22/2021

ISSUED FOR:
PERMIT

A NEW BUILDING FOR:
AAA STORAGE
OFFICES
BEAUFORT, SC

PLUMBING SCHEDULES

REV.	DATE	DESCRIPTION	REV. BY

PROJECT NO.	2021.02.01
DRAWN BY	JM
CHECKED BY	RL
DATE	03/22/2021

P002

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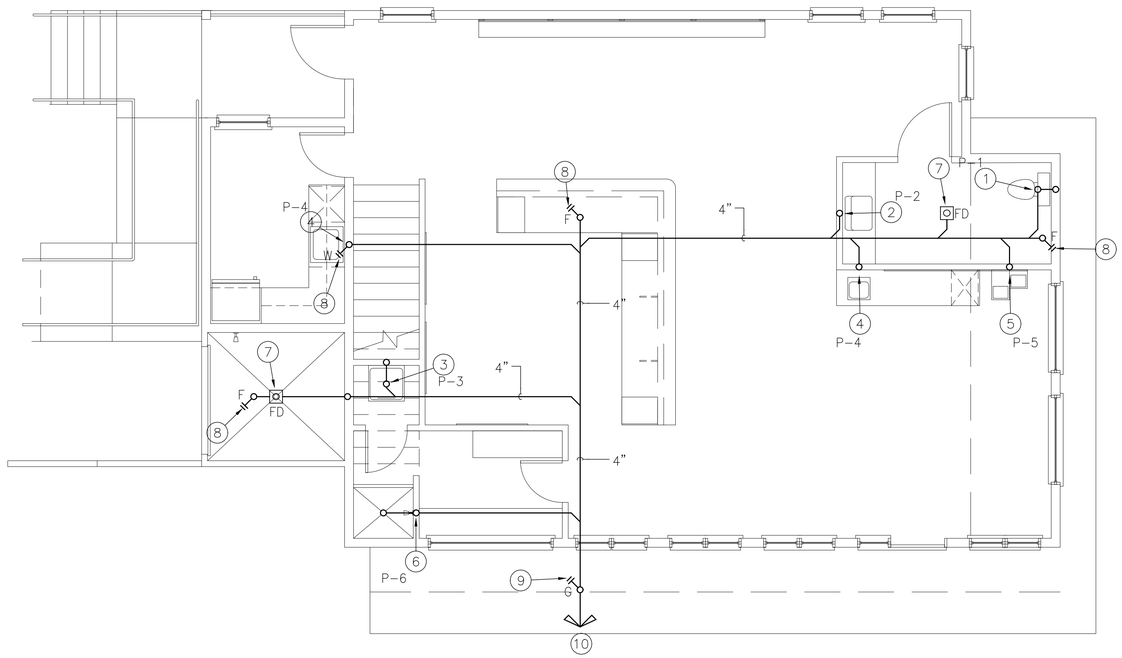

SANITARY SEWER PLAN

SCALE: 1/4" = 1-0"

1 P101

KEYED NOTES
(THIS SHEET ONLY)

1. WATER CLOSET. PROVIDE 3" CONNECTION TO SEWER SYSTEM AND 2" CONNECTION TO VENT SYSTEM.
2. LAVATORY. PROVIDE 2" CONNECTION TO SEWER AND VENT SYSTEM.
3. SERVICE SINK. PROVIDE 2" CONNECTION TO SEWER AND VENT SYSTEM.
4. SINK. PROVIDE 2" CONNECTION TO SEWER AND VENT SYSTEM.
5. WATER COOLER. PROVIDE 2" CONNECTION TO SEWER AND VENT SYSTEM.
6. SHOWER. PROVIDE 2" CONNECTION TO SEWER AND VENT SYSTEM.
7. FLOOR DRAIN WITH TRAP PRIMER. PROVIDE 3" CONNECTION TO SEWER AND VENT SYSTEM.
8. CLEAN OUT.
9. TWO WAY GRADE CLEAN OUT.
10. CONNECT TO SEWER LATERAL. SEE SITE PLAN.

NOTES:
-THIS DESIGN IS BASED ON INFORMATION PROVIDED TO THE ENGINEER AT TIME OF DESIGN.
-ALL WATER LINES TO BE ABOVE CEILING U.O.N..

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REV.	DATE	DESCRIPTION	REV. BY

PROJECT NO.	2021.02.01
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P101

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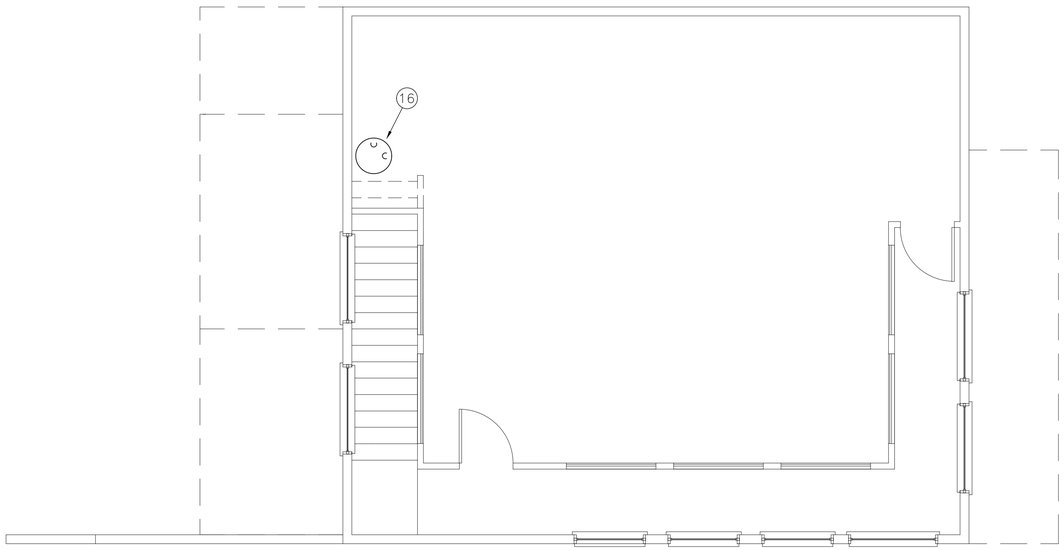

SECOND FLOOR WATER DISTRIBUTION PLAN

SCALE: 1/4" = 1-0"

2 / P201

FIRST FLOOR WATER DISTRIBUTION PLAN

SCALE: 1/4" = 1-0"

1 / P201

KEYED NOTES
(THIS SHEET ONLY)

1. WATER CLOSET. PROVIDE 1/2" CONNECTION WITH SHUT OFF VALVE TO COLD WATER SUPPLY.
2. LAVATORY. PROVIDE 1/2" CONNECTION WITH SHUT OFF VALVE TO HOT AND COLD WATER SUPPLY.
3. SERVICE SINK. PROVIDE 1/2" CONNECTION WITH SHUT OFF VALVE TO HOT AND COLD WATER SUPPLY.
4. SINK. PROVIDE 1/2" CONNECTION WITH SHUT OFF VALVE TO HOT AND COLD WATER SUPPLY.
5. WATER COOLER. PROVIDE 1/2" CONNECTION WITH SHUT OFF VALVE TO HOT AND COLD WATER SUPPLY.
6. SHOWER. PROVIDE 1/2" CONNECTION WITH SHUT OFF VALVE TO HOT AND COLD WATER SUPPLY.
7. WATER HEATER ABOVE. SEE SECOND FLOOR FOR LOCATION. PROVIDE 3/4" COLD AND HOT WATER CONNECTION. PROVIDE DRAIN PAN & P/T RELIEF LINE TO EXTERIOR WALL W/90° ELBOW DOWN TO @6" AFG (3/4").
8. HOSE BIB WITH BACKFLOW PREVENTER. PROVIDE 3/4" CONNECTION WITH SHUT OFF VALVE TO COLD WATER SUPPLY.
9. REFRIGERATOR WALL BOX. PROVIDE 1/2" CONNECTION WITH SHUT OFF VALVE TO COLD WATER SUPPLY.
10. WATER LINE UNDER SLAB.
11. WATER LINE UP IN WALL. PROVIDE SHUT OFF VALVE ABOVE.
12. SHUT OFF VALVE & BOX. COORDINATE LOCATION WITH SITE PLAN.
13. WATER METER. COORDINATE LOCATION WITH SITE PLAN.
14. DOUBLE CHECK VALVE. COORDINATE LOCATION WITH SITE PLAN.
15. CONNECT TO WATER LATERAL. SEE SITE PLAN.
16. WATER HEATER IN ATTIC. SEE FIRST FLOOR WATER DISTRIBUTION PLAN FOR WATER DISTRIBUTION.

NOTES:
-THIS DESIGN IS BASED ON INFORMATION PROVIDED TO THE ENGINEER AT TIME OF DESIGN.
-ALL WATER LINES TO BE ABOVE CEILING U.O.N..
-CONTRACTOR TO LOCATE ALL WATER HEATERS LESS THAN 50' AWAY FROM FROM FURTHEST FIXTURE BEING SERVED.

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03/22/2021

ISSUED FOR:
PERMIT

A NEW BUILDING FOR:
AAA STORAGE OFFICES
BEAUFORT, SC

WATER DISTRIBUTION PLANS

REV.	DATE	DESCRIPTION	REV. BY

PROJECT NO.	2021.02.01
DRAWN BY	JM
CHECKED BY	RL
DATE	03/22/2021

P201

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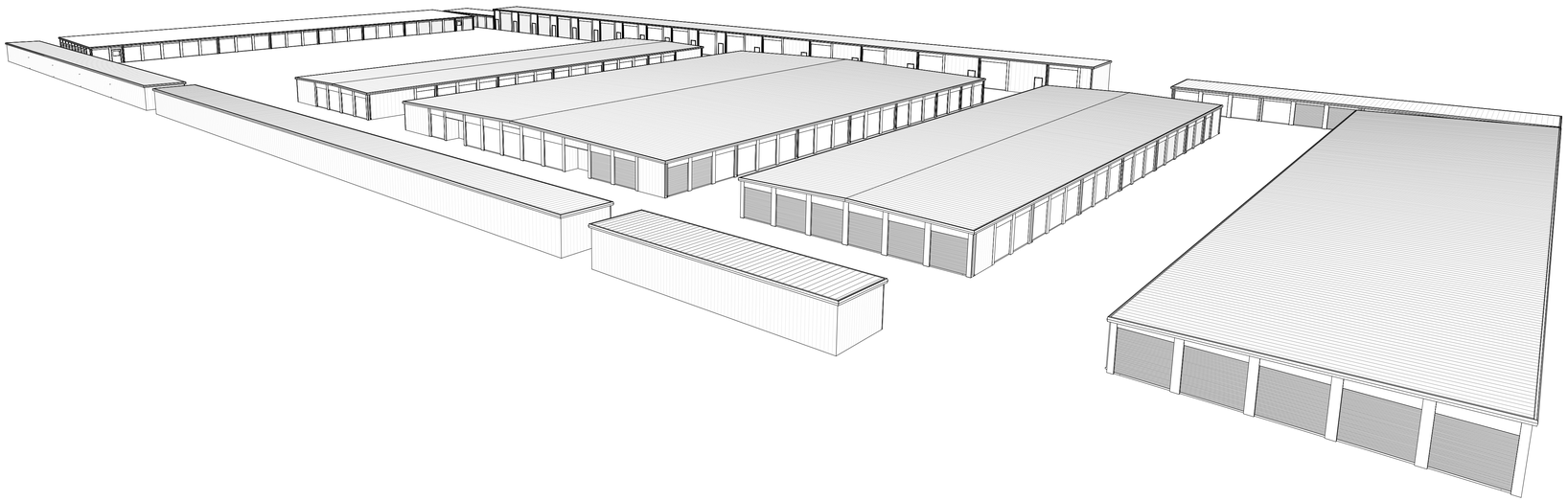
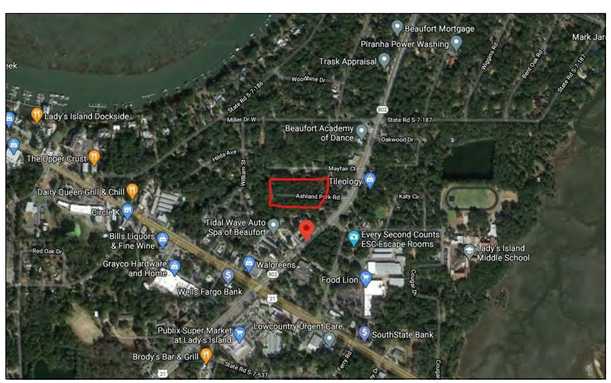
Lady's Island Storage

18 Sams Pointe Rd, Beaufort, SC 29907

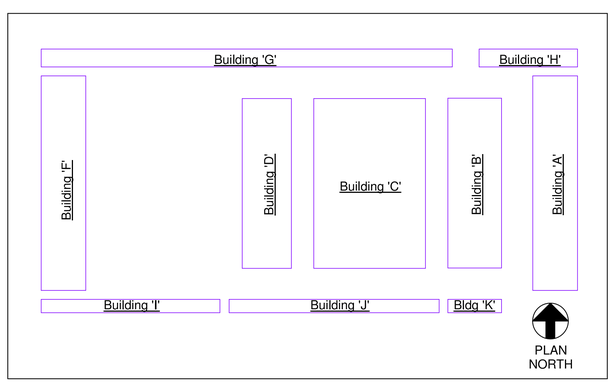


Drawing Schedule			
Sheet Number	Sheet Name	Current Revision	Current Revision Date
S000	Coversheet	1	2-25-2021
S010	General Notes		
S011	General Notes		
S012	General Notes		
S100	Building 'A' & 'B' Foundation Plan	1	2-25-2021
S101	Building 'C' Foundation Plans		
S102	Building 'D' & 'F' Foundation Plans	1	2-25-2021
S103	Building 'G' Foundation Plans	1	2-25-2021
S104	Building 'H' & 'I' Foundation Plans		
S105	Building 'J' & 'K' Foundation Plans		
S200	Building 'A' Plans	1	2-25-2021
S201	Building 'A' Plans	1	2-25-2021
S202	Building 'A' Elevations	1	2-25-2021
S210	Building 'B' Post Plan	1	2-25-2021
S211	Building 'B' Framing Plan	1	2-25-2021
S212	Building 'B' Roofing Plan		
S213	Building 'B' Partition Plan	1	2-25-2021
S214	Building 'B' Elevations		
S220	Building 'C' Post Plan		
S221	Building 'C' Framing Plan		
S222	Building 'C' Roofing Plan		
S223	Building 'C' Partition Plan		
S224	Building 'C' Elevations		
S230	Building 'D' Post Plan		
S231	Building 'D' Framing Plan		
S232	Building 'D' Roofing Plan		
S233	Building 'D' Partition Plan		
S234	Building 'D' Elevations		
S240	Building 'F' Post Plan	1	2-25-2021
S241	Building 'F' Framing Plan	1	2-25-2021
S242	Building 'F' Roofing & Partition Plans	1	2-25-2021
S243	Building 'F' Elevations	1	2-25-2021
S250	Building 'G' Post Plan	1	2-25-2021
S251	Building 'G' Framing Plan	1	2-25-2021
S252	Building 'G' Roofing Plan	1	2-25-2021
S253	Building 'G' Partition Plan	1	2-25-2021
S254	Building 'G' Elevations	1	2-25-2021
S255	Building 'G' Elevations	1	2-25-2021
S260	Building 'H' Plans		
S261	Building 'H' Plans		
S262	Building 'H' Elevations		
S270	Building 'I' Plans		
S271	Building 'I' Plans		
S272	Building 'I' Elevations		
S280	Building 'J' Plans		
S281	Building 'J' Plans		
S282	Building 'J' Elevations		
S290	Building 'K' Plans	1	2-25-2021
S291	Building 'K' Plans	1	2-25-2021
S700	Exterior Wall Sections		
S800	Foundation Details		
S801	Details		
S802	Details		
S803	Details		
S804	Details		
S805	Details		

Area Map



Site Plan



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Rev. #	Revision Date	Revision Description
1	2-25-2021	Owner Unit Mix Revision

Dan Lynch

Lady's Island Storage

18 Sams Pointe Rd
Beaufort, SC 29907

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
No. 11352
ROGER S. LINGERFELT
3/5/2021

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South Carolina P.E. Number 11352

APPLICATION OF SEAL IS FOR METAL BUILDING ONLY AND DOES NOT REPRESENT THE PROFESSIONAL OF RECORD.

SSI Project Number	1008
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

S000

Coversheet

DESIGN CRITERIA

2018 INTERNATIONAL BUILDING CODE
SECTION 16

ASCE 7-16

BUILDING CLASSIFICATION
CONSTRUCTION TYPE II-B SPRINKLERED (SECTION 602.2, TABLE 601)
OCCUPANCY CLASSIFICATION - STORAGE GROUP S-1 (SECTION 311.3)
NO MIXED OCCUPANCY

FLOOR LIVE LOAD: 125 PSF (TABLE 1607.1-31 LIGHT STORAGE)
CORFIDOR LIVE LOAD: 100 PSF(TABLE 1607.1-8)

WIND
(SECTION 1603.1.4)
- ULTIMATE WIND SPEED: 140 MPH - FIGURE 1609.3(1)
- IMPORTANCE FACTOR = Iw = 1.0 (ASCE 7-16, TABLE 1.5-2)
- EXPOSURE CATEGORY C (SECTION 1609.4.3)
- EXPOSURE & INTERNAL COEFFICIENTS = +/- 0.18 (ASCE 7-16, TABLE 26.13-1)
- DIRECTIONALITY (Kd) = 0.85 (ASCE 7-16, TABLE 26.6-1)

SNOW
- GROUND SNOW LOAD: Pg = 5.0 PSF (ASCE 7-16, FIGURE 7.2-1)
- FLAT ROOF SNOW LOAD: Pf = 3.5 PSF (ASCE 7-16, 7.3)
  Pm = 5.0 PSF
- UNIFORM ROOF DESIGN SNOW LOAD = 8.5 PSF
- IMPORTANCE FACTOR = Is = 1.0 (ASCE 7-16, TABLE 1.5-2)
- EXPOSURE FACTOR = Ce = 1.0 (ASCE 7-16, TABLE 7.3-1)
- THERMAL FACTOR - Ct = 1.0 (ASCE 7-16, TABLE 7.3-2)

SEISMIC DESIGN DATA

2018 INTERNATIONAL BUILDING CODE
SECTION 16

ASCE 7-16

RISK - OCCUPANCY CATEGORY II (TABLE 1604.5)

SEISMIC IMPORTANCE FACTOR : Ie = 1.00 (ASCE 7-16, TABLE 1.5-2)

MAPPED SPECTRAL RESPONSE COEFFICIENTS
- Ss (0.2 Sec) = 0.662 g (FIGURE 1613.2.1(1))
- S1 (1 Sec) = 0.210 g
- Sms = 0.841 g
- Sm1 = 0.458 g

SEISMIC SPECTRAL RESPONSE COEFFICIENTS
- SDs = 0.561 g (EQUATION 16-39)
- Sd1 = 0.305 g (EQUATION 16-40)

SEISMIC DESIGN CATEGORY = D (TABLE 1613.2.5)

SITE CLASS D

BUILDING SYSTEM:
- BUILDING SYSTEMS: ASCE 7-16
- LIGHT FRAME (COLD FORM STEEL WALLS WITH STEEL SHEETS

ANALYSIS PROCEDURE: EQUIVALENT LATERAL-FORCE ANALYSIS (ASCE 7-10, 12.8)
- R = 6.5
- Cd = 4.0
- Cs = 0.086 (ASCE 7-16, EQUATION 12.8-2)
- BASE SHEAR: V = Cs(W) (ASCE 7-16, EQUATION 12.8-1)
- BUILDING A: V = 20.5 KIPS
- BUILDING B: V = 19.1 KIPS
- BUILDING C: V = 36.1 KIPS
- BUILDING D: V = 17.7 KIPS
- BUILDING F: V = 20.5 KIPS
- BUILDING G: V = 20.2 KIPS
- BUILDING H: V = 5.1 KIPS
- BUILDING I: V = 7.6 KIPS
- BUILDING J: V = 6.7 KIPS
- BUILDING K: V = 2.5 KIPS

WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITION, EVEN THOUGH NOT SPECIFICALLY MARKED ON DRAWING.

CONTRACTOR SHALL BE RESPONSIBLE FOR BRACING AND SHORING THE WALL DURING CONSTRUCTION TO ENSURE STABILITY.

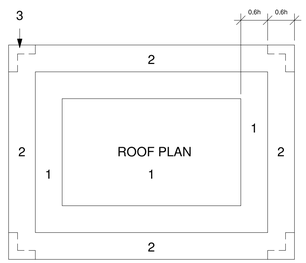
EXCLUSIONS: ROLLUP DOORS, SWING DOORS, HALLWAY SYSTEMS, BURGLAR BARS AND WIRE MESH, CONCRETE SLABS / CUTTING, MASONRY, CMU, CMU WALLS, CMU BOND BEAMS, BLOCK, ELECTRICAL, HVAC, BRICK VENEER, TIES, LEDGER ANGLES, EIFS, STUCCO, HARDY PLANK, RESIDENTIAL SIDING, ETC, WALL INSULATION FOR EXTERIOR EIFS / STUCCO AND BRICK VENEER WALLS, EXTERIOR SHEATHING, DENS-GLASS, DRYWALLS & WALL INSULATION FOR DRYWALL, OFFICE INTERIOR BUILD-OUT, LINER PANELS FOR FIREWALLS, FIREWALLS, FIRECAULKING, FIREPROOFING, WOOD PRODUCTS, WINDOWS, STOREFRONTS, DECORATIVE AWNINGS, MANSARDS, CANOPIES, PARAPET WALLS, ROOFTOP UNITS, ACCESS DOORS, LADDERS, PLYWOOD, CONCRETE AND ROOF METAL TRUSSES BY OTHERS.

MATERIALS	ASTM DESIGNATION	MIN YIELD (U.N.)
HOT ROLLED MILL SHAPES	A36, A992	GRADE 36 OR 50
FY=36 KSI, 50 KSI		
STRUCTURAL STEEL PLATE	A36	GRADE 36
FY=42, 46, 50 & 55 KSI		
COLD FORMED L.G. SHAPES	A653, A1011	GRADE 60
FY=KSI		
CABLE BRACING	A475	GRADE 36
EXTRA HIGH STRENGTH		
ROD BRACING	A572, A510	GRADE 36 OR 50
FY=36KSI, 50KSI		
ROOF AND WALL SHEETING	A653, A792	GRADE 50 OR 80
FY=50KSI, 80KSI		
STRUCTURAL BOLTS	A325	GRADE 120
FY=120KSI		
ANCHOR BOLTS (IF SUPPLIED)		
FY=36KSI		
PIPE AND TUBE	A500	GRADE B
FY=42KSI		

WIND LOAD SCHEDULE					
COMPONENTS & CLADDING	ROOF WIND LOAD			WALL WIND LOADS	
	ROOF AREA			WALL AREA	
	1	2	3	4	5
PRESSURE (PSF)	+17.4	+17.4	+17.4	+35.1	+35.1
SUCTION (PSF)	-68.1	-89.8	-122.4	-38.3	-44.1

1. CORNER DISTANCE, A=4.0 FEET, ROOF=50 S.F.; WALL=50 S.F. (C&C)
h = 10.0ft, 0.2h = 2.0ft; 0.6h = 6.0ft





DESIGN LOAD SCHEDULE POUNDS PER SQUARE FOOT	
COMPONENT	ROOF
" COMPOSITE DECK	
METAL DECK	2.5
ROOF INSULATION	4.0
MECH., ELEC., PLUM.	2.0
CEILING	
MISC.	1.5
PARTITION	
TOTAL DEAD LOAD	10.0
LIVE LOAD	20.0
TOTAL LOAD	30.0

NOTE: NET WIND UPLIFT = -45.3 PSF (MWFRS INTER.)

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Rev. #	Revision Date	Revision Description

Dan Lynch

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SSI Project Number	1008
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

S010

General Notes

STRUCTURAL NOTES

GENERAL:
A. THE FOLLOWING NOTES APPLY TO ALL STRUCTURAL DRAWINGS. NOTES SHALL APPLY UNLESS OTHERWISE INDICATED BY DRAWINGS OR SPECIFICATIONS.
B. WHERE A DETAIL, TYPICAL DETAIL, SECTION, TYPICAL SECTION OR PLAN NOTE IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL SIMILAR OR LIKE CONDITIONS UNLESS OTHERWISE NOTED.
C. ALL DESIGN AND CONSTRUCTION IS BASED ON AND SHALL BE IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE.
D. NO PROVISION OF ANY REFERENCED STANDARD SPECIFICATION, MANUAL OR CODE (WHETHER OR NOT SPECIFICALLY INCORPORATED BY REFERENCE IN THE CONTRACT DOCUMENTS) SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND RESPONSIBILITIES OF OWNER, CONTRACTOR, ENGINEER, SUPPLIER , OR ANY OF THEIR CONSULTANTS, AGENTS, OR EMPLOYEES FROM THOSE SET FORTH IN THE CONTRACT DOCUMENTS. NOR SHALL IT BE EFFECTIVE TO ASSIGN TO THE STRUCTURAL ENGINEER OF RECORD OR ANY OF THE STRUCTURAL ENGINEER OF RECORD'S CONSULTANTS, AGENTS, OR EMPLOYEES ANY DUTY OR AUTHORITY TO SUPERVISE OR DIRECT THE FURNISHING OR PERFORMANCE OF THE WORK OR ANY DUTY OR AUTHORITY TO UNDERTAKE RESPONSIBILITIES CONTRARY TO THE PROVISIONS OF THE CONTRACT DOCUMENTS.
E. CONTRACT DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO, THE STRUCTURAL DOCUMENTS (DRAWINGS AND SPECIFICATIONS_, BUT DO NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR.
F. CONTRACT DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH CODE OF PRACTICE OR SPECIFICATIONS OF ACI, PCI, AISC, SJI OR OTHER STANDARDS. WHERE A CONFLICT OCCURS WITHIN THE CONTRACT DOCUMENTS, THE STRICTEST REQUIREMENT SHALL GOVERN.
G. MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE REFERENCED BUILDING CODE.
H. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH WORK. FOR DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS, SEE ARCHITECTURAL DRAWINGS.
I. THE STRUCTURE SHOWN ON THESE DRAWINGS IS SELF-SUPPORTING ONLY IN ITS COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE DESIGN, ADEQUACY, SAFETY, AND STABILITY OF TEMPORARY ERECTION, BRACING AND SHORING.
J. NO PROVISIONS HAVE BEEN MADE IN THE DESIGN FOR THE SUPPORT OF A CONCENTRATED LOAD FROM PLUMBING, MECHANICAL OR HVAC IN EXCESS OF 200LBS PER JOIST EXCEPT AS SHOWN ON THE PLANS.
K. THE GENERAL CONTRACTOR SHALL COORDINATE ALL SIZES AND LOCATIONS OF ROOF PENETRATIONS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS. ALL PENETRATIONS THROUGH ROOF DECK GREATER THAN 12" SQUARE SHALL BE FRAMED AS SHOWN IN THE "TYPICAL ROOF OPENING FRAMING" DETAIL.
L. CONTRACTOR SHALL VERIFY THAT MISCELLANEOUS FRAMING SHOWN ON THE STRUCTURAL DRAWINGS FOR MECHANICAL EQUIPMENT. OWNER-FURNISHED ITEMS, PARTITIONS, ETC. IS CONSISTENT WITH THE REQUIREMENTS OF SUCH ITEMS.
M. UNLESS NOTED, ELEVATIONS SHOWN ARE TO TOP OF FOUNDATIONS, SLAB OR STEEL BEAMS.
N. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCED, AND PROCEDURES IN ORDER TO COMPLY WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.
O. CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.
P. STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR THE DESIGN OF STEEL STAIRS, HANDRAILS, CURTAIN WALL/WINDOW WALL SYSTEMS, OR OTHER SYSTEMS NOT SHOWN IN THE STRUCTURAL DOCUMENTS. SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS AS REQUESTED BY THE BUILDING OFFICIAL.
Q. DO NOT SCALE FOR DIMENSIONS NOT SHOWN ON DRAWINGS. SEND WRITTEN REQUEST FOR INFORMATION TO THE ARCHITECT FOR DIMENSIONS NOT PROVIDED.
R. TEST REPORTS AND SPECIAL INSPECTION REPORTS SHALL BE SUBMITTED ELECTRONICALLY UNLESS PRIOR PERMISSION GRANTED BY ENGINEER.

SHOP DRAWINGS:
A. STRUCTURAL DRAWINGS INDICATE TYPICAL AND SOME SPECIFIC CONDITIONS ONLY. SHOP DRAWINGS SHALL DETAIL ALL CONDITIONS IN ACCORDANCE WITH SPECIFIED STANDARDS AND THE SPECIFIC REQUIREMENTS OF THIS PROJECT AS INDICATED IN THE PROJECT DOCUMENTS.
B. THE CONTRACTOR SHALL SUBMIT, AS REQUIRED, PRINTS OF SHOP DRAWINGS FOR ALL FABRICATED MATERIALS TO ENGINEER FOR REVIEW.
C. REVIEW OF SHOP DRAWINGS BY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF THOSE SHOP DRAWINGS.
D. SHOP DRAWINGS REQUIRING A SPECIAL ENGINEERING DESIGN BY THE FABRICATOR SHALL BE STAMPED BY A REGISTERED ENGINEER OF RECORD IN THE STATE WHICH CONSTRUCTION WILL OCCUR BEFORE SUBMITTING FOR REVIEW BY THE ENGINEER.
E. COMPLETE SHOP DRAWINGS FOR CONSTRUCTION OF ALL APPLICABLE SPECIALTY ITEMS INCLUDING, BUT NOT LIMITED TO:CURTAIN WALL GLAZING SYSTEMS, ORNAMENTAL GUARDRAILS, SKYLIGHTS, AND STAIRS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THIS BUILDING SHALL BE CONSTRUCTED AND SHALL BE AVAILABLE AT THE JOB SITE DURING TIMES OF INSPECTION.
F. REPRODUCTION/DUPLICATION OF THE STRUCTURAL DRAWINGS FOR USE IN THE PRODUCTION OF SHOP DRAWINGS IS PROHIBITED, UNLESS NOTED OTHERWISE. IN THE EVENT THAT THE GENERAL CONTRACTOR OR SUBCONTRACTOR ELECTS TO PRODUCE SHOP DRAWINGS BY COPYING ELECTRONIC OR PAPER COPIES OF THE STRUCTURAL DRAWINGS, THE CONTRACTOR SHALL REQUEST FROM THE ENGINEER OF RECORD A SHOP DRAWING WAIVER ALONG WITH THE SPECIFIC SHEETS REQUIRED. SIGNATURE OF THE WAIVER BY THE CONTRACTOR OR SUBCONTRACTOR, ALONG WITH PAYMENT OF A FEE TO THE ENGINEER OF RECORD WILL BE REQUIRED. CONTRACTOR SHALL CONTINUE TO ASSUME RESPONSIBILITY FOR ERRORS, OMISSIONS AND COORDINATION REQUIRED FOR SHOP DRAWING PRODUCTION, REGARDLESS OF THE USE OF COPIES OF THE STRUCTURAL DRAWINGS FOR SHOP DRAWING PRODUCTION.

DESIGN LOADS:
A. DESIGN ROOF DEAD LOAD:
1. 10.0 PSF
B. DESIGN ROOF LIVE LOAD:
1. 20.0 PSF
2. REDUCTIONS APPLIED PER TRIBUTARY AREA AS PERMITTED BY CODE.
D. DESIGN FLOOR LIVE LOAD:
1. 125 PSF SLAB-ON-GRADE
E. DESIGN SNOW LOAD:
1. GROUND SNOW LOAD, Pg = 5.0 PSF
2. FLAT ROOF SNOW LOAD, Pf = 3.5 PSF
3. SNOW EXPOSURE FACTOR, Ce = 1.0
4. SNOW IMPORTANCE FACTOR, Is = 1.0
5. SNOW THERMAL FACTOR, Ct = 1.0
F. DESIGN WIND LOAD:
1. BASIC WIND SPEED (3 SECOND GUST): 140 MPH (ULTIMATE)
2. WIND IMPORTANCE FACTOR, Iw = 1.0
3. BUILDING CATEGORY / OCCUPANCY CATEGORY: (II)
4. WIND EXPOSURE CATEGORY: C DIRECTIONALITY (Kd) = 0.85
5. COMPONENTS AND CLADDING WIND PRESSURE
6. INTERNAL PRESSURE COEFFICIENT (GCp1): 0.18
G. DESIGN SEISMIC INFORMATION:
1. SEISMIC USE GROUP / OCCUPANCY CATEGORY: (II)
2. MAPPED SPECTRAL RESPONSE COEFFICIENT, S1 = 0.210g
3. MAPPED SPECTRAL RESPONSE COEFFICIENT, Ss = 0.662g
4. SPECTRAL RESPONSE COEFFICIENT, Sds = 0.561g
5. SPECTRAL RESPONSE COEFFICIENT, Sd1 = 0.305g
6. SITE CLASS: D
7. BEARING WALL SYSTEMS; LIGHT FRAME WELLS WITH STEEL SHEAR PANELS.
8. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE ANALYSIS
9. RESPONSE MODIFICATION FACTOR, R: 6.5
10. SEISMIC DESIGN CATEGORY: C
11. SEISMIC IMPORTANCE FACTOR, Ie = 1.0
12. SEISMIC RESPONSE COEFFICIENT, Cs = 0.086
H. NO PROVISIONS HAVE BEEN MADE FOR FUTURE HORIZONTAL OR VERTICAL EXPANSION.

SHALLOW FOUNDATION:
A. DESIGN SOIL BEARING PRESSURE IS 2000 PSF.
B. A QUALIFIED GEOTECHNICAL ENGINEER SHALL VERIFY ALL ASSUMPTIONS AND REPORT TO THE ARCHITECT/ENGINEER ANY VARIATIONS.
C. ALL EXCAVATIONS AND BUILDING PADS SHALL BE INSPECTED BY A QUALIFIED GEOTECHNICAL ENGINEER TO VERIFY THE DESIGN ASSUMPTIONS AND REPORT ADVERSE CONDITIONS.
D. WHERE FILL IS REQUIRED, IT SHALL BE PLACED IN ACCORDANCE WITH INSTRUCTIONS OF A QUALIFIED GEOTECHNICAL ENGINEER TO MAINTAIN DESIGN BEARING PRESSURE.
E. FOOTING ELEVATIONS GIVEN ARE FOR THE PURPOSE OF DESIGN. SOIL BELOW FOOTING NOT MEETING DESIGN BEARING PRESSURE SHALL BE EXCAVATED TO A DEPTH OF VERIFIABLE DESIGN PRESSURE AND BACKFILLED WITH #57 STONE TO A LEVEL OF FOUNDATION BEARING. THIS SHALL BE APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER.
F. THE BOTTOM OF ALL EXTERIOR FOUNDATIONS SHALL BE PLACED AT A MINIMUM OF 16" BELOW THE TOP OF THE FINISHED GRADE. THE BOTTOM OF ALL INTERIOR FOUNDATION SHALL BE PLACED AT A MINIMUM OF 16" BELOW THE TOP OF THE FINISHED GRADE.
G. FOOTINGS SHALL BE CENTERED ABOUT COLUMN LINES UNLESS NOTED OTHERWISE.
H. TOP OF FOOTING ELEVATIONS PROVIDED ON DRAWINGS ARE FOR PURPOSES OF CONTRACT & SHALL BE ADJUSTED, AS REQUIRED, AT TIME OF EXCAVATION TO BEAR ON PROPERLY PREPARED SUPPORT SUBGRADE (PER GEOTECH REPORT RECOMMENDATIONS OR FIELD DIRECTIVES OF GEOTECHNICAL ENGINEER ON SITE) OR TO ADJUST FOOTING ELEVATIONS TO AVOID INFLUENCE BETWEEN FOUNDATIONS & BURIED PLUMBING. DO NOT EMBED PIPING WITHIN OR PASS PIPING VERTICALLY OR HORIZONTALLY THROUGH ISOLATED FOOTINGS.

SPECIAL INSPECTIONS:
A. THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED UNDER SECTION 1704 OF THE BUILDING CODE. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS SPECIFIED IN SECTION 109 OF THE BUILDING CODE.
B. SEE SECTION 1704, SPECIAL INSPECTIONS, OF THE BUILDING CODE FOR FULL CRITERIA AND EXCEPTIONS FOR INSPECTION REQUIREMENT.
C. SEE INSPECTION TABLE ON THE SCHEDULES SHEET FOR REQUIRED MATERIALS INSPECTION.

REINFORCING STEEL:
A. REINFORCING STEEL AND ACCESSORIES SHALL BE DETAILED IN ACCORDANCE WITH ACI 315 (MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES) AND CRSI MSP2 (MANUAL OF STANDARD PRACTICE) LATEST EDITIONS.
B. REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60 (UNLESS NOTED OTHERWISE.)
C. SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE REINFORCING BAR SIZES AND PLACEMENT. WRITTEN DESCRIPTION OF REINFORCEMENT WITHOUT ADEQUATE SECTIONS, ELEVATIONS AND DETAILS IS NOT ACCEPTABLE.
D. ALL WELDED REINFORCING STEEL SHALL CONFORM TO ASTM A-706, GRADE 60, AND BE USED ONLY WITH PRIOR PERMISSION FROM THE STRUCTURAL ENGINEER.
E. ALL TENSION SPLICES, INCLUDING SPLICES FROM BARS LABELED CONTINUOUS SHALL CONFORM TO ACI 318-08. SPLICES SHALL BE CLASS B IN ACCORDANCE WITH ACI 318, UNLESS NOTED OTHERWISE. REINFORCEMENT SHALL BE SPLICED ONLY AT LOCATIONS SHOWN OR NOTED IN THE STRUCTURAL DOCUMENTS, EXCEPT REINFORCEMENT MARKED "CONTINUOUS" CAN BE SPLICED AT LOCATIONS DETERMINED BY CONTRACTOR SPLICES AT OTHER LOCATIONS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
F. WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A-185 AND BE LAPPED TWO FULL PANELS, TIED ON EACH SIDE AND SHALL BE SUPPLIED IN FLAT SHEETS.
G. LONGITUDINAL REINFORCING BARS IN FOOTINGS SHALL BE PLACED CONTINUOUS AT CORNERS AND INTERSECTIONS.
H. FOR EVERY VERTICAL OR HORIZONTAL BAR DISCONTINUED BY AN OPENING, ONE BAR (MIN. OF 2 BARS) SHALL BE ADDED SIDE OF OPENING (HALF TO EACH SIDE – TYPICAL)
I. PROVIDE CORNER BARS AT ALL CONTINUOUS REINFORCING BARS AT ALL MEMBERS (FOUNDATIONS, WALL, SLABS, BEAMS AND OTHER MEMBERS).
J. PROVIDE DOWELS FROM FOUNDATIONS, THE SAME SIZE & NUMBER AS THE VERTICAL WALL OR COLUMN REINFORCING, UNLESS NOTED OTHERWISE.
K. ALL DOWELS AND TERMINATING BARS SHALL HAVE A STANDARD 90 DEGREE HOOK.
L. ALL HORIZONTAL REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL AND/OR CONSTRUCTION JOINTS AND AROUND CORNERS.

CONCRETE:
A. ALL CONCRETE DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318-08 AND ACI 301-08.
B. CEMENT SHALL BE TYPE I OR TYPE III CONFORMING TO ASTM C-150 AND CONCRETE SHALL DEVELOP A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI.
C. TEST CYLINDERS SHALL BE TAKEN AS A REPRESENTATIVE SAMPLE OF CONCRETE PLACED IN THE AMOUNT ACCORDING TO THE LESSER OF THE FOLLOWING.
1. 75 CUBIC YARDS
2. 24 HOUR PERIOD
3. CHANGE IN CONCRETE STRENGTH
D. TEST RESULTS SHALL BE FORWARDED TO THE ARCHITECT/ENGINEER UNLESS NOTED OTHERWISE, NORMAL WEIGHT CONCRETE (145 PCF) SHALL BE USED WITH 1" MAX. COARSE AGGREGATE CONFORMING TO ASTM C 33.
E. CONCRETE SLUMP SHALL BE 3"-5" (MAX) FOR REGULAR MIX WITH SUPERPLASTICIZER ADMIXTURES INCREASING SLUMP TO 8" (MAX). CONCRETE AIR-ENTRAINMENT SHALL BE 4.5" TO 7.5" FOR EXTERIOR SLABS AND 0% TO 3% FOR INTERIOR SLABS.
F. UNLESS NOTED OTHERWISE, CONCRETE COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS:
1. CONCRETE CAST AGAINST EARTH. 3"
2. FORMED CONCRETE EXPOSED TO EARTH OR WEATHER. 2"
G. NO ADDITIONAL WATER SHALL BE ADDED TO THE CONCRETE AT THE JOB SITE.
H. THE RESULTS OF ALL CONCRETE COMPRESSIVE TESTS SHALL BE AT THE JOB SITE FOR REVIEW BY THE INSPECTOR.
I. THE FOLLOWING CRITERIA REGARDING PIPES AND CONDUITS EMBEDDED IN CONCRETE MUST BE FOLLOWED (SEE MECHANICAL/ELECTRICAL DRAWINGS FOR LOCATION OF SLEEVES, PIPES, CONDUIT, ACCESSORIES, ETC.) THIS CRITERIA WILL BE STRICTLY ENFORCED.
1. CONDUITS, PIPES, AND SLEEVES OF ANY MATERIAL NOT HARMFUL TO CONCRETE SHALL BE PERMITTED TO BE EMBEDDED IN CONCRETE WITH THE APPROVAL OF THE STRUCTURAL ENGINEER.
2. CONDUITS AND PIPES OF ALUMINUM SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE.
3. CONDUITS, PIPES, AND SLEEVES PASSING THROUGH A SLAB, WALL, OR BEAM SHALL NOT SIGNIFICANTLY IMPAIR THE STRENGTH OF THE CONSTRUCTION.
4. CONDUITS AND PIPES SHALL NOT BE LARGER IN OUTSIDE DIAMETER THAN 1/3 THE OVERALL THICKNESS OF THE SLAB, WALL, OR BEAM IN WHICH THEY ARE EMBEDDED.
5. CONDUITS AND PIPES SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS OR WIDTHS ON CENTER CONCRETE COVER FOR PIPES, CONDUITS AND FITTINGS SHALL NOT BE LESS THAN 1 ½" FOR CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR IN CONTACT WITH GROUND.
6. CONDUITS AND PIPES SHALL BE PLACED BETWEEN TOP AND BOTTOM SLAB REINFORCEMENT. PIPES AND CONDUITS SHALL BE PLACED IN THE MIDDLE THIRD OF THE SLAB OR WALL THICKNESS UNLESS NOTED OTHERWISE.
7. CONDUITS AND PIPES SHALL BE SO FABRICATED AND INSTALLED THAT CUTTING, BENDING, OR DISPLACEMENT OF REINFORCEMENT FROM ITS PROPER LOCATION WILL NOT BE REQUIRED.
8. CONDUITS AND PIPES, WITH FITTINGS, EMBEDDED WITHIN A COLUMN SHALL NOT DISPLACE MORE THAN 4 PERCENT OF THE AREA OF CROSS SECTION NOTED ON DRAWINGS OR AS REQUIRED BY FIRE PROTECTION.
9. PIPES AND FITTINGS SHALL BE DESIGNED TO RESIST EFFECTS OF MATERIAL, PRESSURE AND TEMPERATURE TO WHICH THEY WILL BE SUBJECTED.
10. REINFORCEMENT WITH AN AREA NOT LESS THAN 0.002 TIMES THE AREA OF CONCRETE SECTION SHALL BE PROVIDED NORMAL TO PIPING. THIS REINFORCEMENT SHALL BE IN ADDITION TO REINFORCEMENT NOTED ON DRAWINGS.
11. REFER TO ACI 318, SECTION 6.3 FOR ADDITIONAL REQUIREMENTS FOR CONDUITS AND PIPES EMBEDDED IN CONCRETE.
J. SEE ARCHITECTURAL, ELECTRICAL, MECHANICAL, FIRE PROTECTION AND PLUMBING DRAWINGS FOR DRIPS, CHAMFERS, REGLETS, SLOTS, SLEEVES, RUSTICATIONS, INSERTS ANCHORS AND OTHER EMBEDDED ITEMS NOT NOTED ON STRUCTURAL DRAWINGS. CONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATING & PLACING ALL EMBEDDED ITEMS SHOWN ON DRAWINGS & ADDITIONAL ITEMS NOTED IN THIS NOTE, AS REQUIRED BY OTHER TRADES, UNLESS SHOWN ON STRUCTURAL DRAWINGS, NO OPENINGS LARGER THAN 12"X12" SHALL BE PLACED ON SLABS OR WALLS. FOR OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS, APPROVALS MUST BE OBTAINED FROM THE ENGINEER/ARCHITECT PRIOR TO FABRICATIONS OF STEEL AND PLACEMENT OF CONCRETE.
K. FLY ASH, MEETING ASTM C-618 CLASS C OR CLASS F, MAY BE USED TO REPLACE UP TO 20% OF PORTLAND CEMENT. CONTRACTOR AND SUPPLIER SHALL COORDINATE TO ENSURE THAT REQUIRED SET TIMES FOR CONCRETE ARE NOT ADVERSELY AFFECTED BY USE OF FLY ASH. CONTRACTOR AND ALL CONCRETE SUBCONTRACTORS SHALL HAVE EXPERIENCE WITH HANDLING, PLACING AND FINISHING CONCRETE WITH FLY ASH.
L. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, CLIPS OR GROUNDS REQUIRED TO BE ENCASED IN CONCRETE AND FOR LOCATION OF FLOOR FINISHED AND SLAB DEPRESSIONS.
M. DEFECTIVE AREA IN CONCRETE INCLUDING, BUT NOT LIMITED TO, HONEY-COMBING, SPALLS, AND CRACKS WITH WIDTHS EXCEEDING 0.01 INCH SHALL BE REPAIRED. EXTENT OF DEFECTIVE AREA TO BE DETERMINED BY THE STRUCTURAL ENGINEER.
N. POWDER ACTUATED FASTENERS (OR POWDER DRIVEN FASTENERS) SHALL BE ANCHORED IN CONCRETE WITH MINIMUM FASTENER SPACING OF 3" AND MINIMUM EDGE DISTANCE OF 2".
O. HEADED CONCRETE ANCHORS SHALL BE TYPE B AND CONFORM TO AWS D1.1-02 & ASTM A108 SPECIFICATIONS FOR 1010 THROUGH 1020 MILD STEELS. MINIMUM YIELD STRENGTH = 51,000 PSI (0.2% OFFSET).

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APPLICATION OF SEAL IS FOR METAL BUILDING ONLY AND DOES NOT REPRESENT THE PROFESSIONAL OF RECORD.

SSI Project Number	1008
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

S011

General Notes

SLAB-ON-GRADE:
A. C.J. DENOTES CONCRETE SLAB "CONTROL JOINT" WHICH SHALL BE CUT INTO THE SLABS AT A DEPTH OF ¼ TIMES THE THICKNESS OF THE SLAB WITHIN 12 HOURS OF PLACING THE CONCRETE. MAXIMUM SPACING OF INTERIOR SLAB CONTROL JOINTS, UNLESS NOTED OTHERWISE, SHALL BE 20'-0" TO 20'-0" (MAX) IN EACH DIRECTION. CONSTRUCTION OF CONTROL JOINTS SHALL BE LOCATED SUCH THAT THE AREA CONTAINED IS 400 SQUARE FEET MAX, WITH A MAXIMUM RATIO OF LONG TO SHORT SIDE OF 2 TO 1, OR AS SHOWN ON THE PLANS.
B. SLAB CONSTRUCTION JOINTS SHALL BE USED IN PLACE OF CONTROL JOINTS WHERE NEEDED TO INTERRUPT A CONTINUOUS POUR. SLAB CONSTRUCTION JOINTS SHALL BE KEYED.
C. PLACEMENT OF WELDED WIRE REINFORCEMENT IN SLAB, WHERE SPECIFIED, SHALL BE AT A CONSISTENT DEPTH OF 1"-2" FROM T/SLAB. WELDED WIRE REINFORCEMENT SHALL BE PROPERLY CHAIRED ABOVE GRADE. OVERLAP EACH REINFORCING SHEET TWO FULL PANELS AND TIE CROSS WIRES ON EACH SIDE. WELDED WIRE REINFORCEMENT SHALL BE SUPPLIED IN FLAT SHEETS.
D. REFER TO ARCHITECTURAL/MECHANICAL FOR SLAB FINISHES, SLAB DEPRESSIONS, THICKENED SLABS (IN ADDITION TO THICKENED SLABS NOTED ON STRUCTURAL DRAWINGS), ELEVATIONS, AND ENCASED OR EMBEDDED ITEMS.
E. PLUMBING AND ELECTRICAL CONDUITS SHALL BE PLACED BELOW THE SLAB AND NOT WITHIN THE SLAB. VERTICAL PENETRATIONS ARE ALLOWED.
F. COLUMN BOX-OUTS SHALL BE USED TO ISOLATE AN ADEQUATE AREA AROUND COLUMN BASE PLATES TO PROVIDE FOR COLUMN PLACEMENT AND LEVELING. BOX-OUTS ARE TO BE CLEAN AND FREE OF DEBRIS TO TOP OF FOOTING PRIOR TO FILLING WITH CONCRETE. COLUMN BOX-OUTS ARE NOT REQUIRED IF STEEL COLUMNS ARE PLUMB AND FULLY GROUTED PRIOR TO PLACEMENT OF SLAB.

COLD-FORMED METAL FRAMING (METAL STUDS AND JOIST):
A. DESIGN FABRICATIONS AND ERECTION SHALL CONFORM TO 2001 AISI "NORTH AMERICAN SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURALS MEMBERS". ALL METAL STUDS SHALL BE GALVANIZED.
B. MINIMUM YIELD STRENGTH (FY) FOR MATERIAL IS 33,000 PSI FOR 33 MILS MATERIALS, AND 40,000 PSI FOR 43,54 MILS, 68 MILS AND 97 MILS MATERIALS.
C. ALL STUDS, JOISTS, TRACK, BRIDGING, END CLOSURES AND ACCESSORIES SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE REQUIREMENTS OF AISI SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS UNLESS NOTED OTHERWISE.
D. ALL PRODUCTS TO BE MANUFACTURED BY A CURRENT MEMBER OF THE STEEL MANUFACTURERS ASSOCIATION.
E. ALL MATERIAL AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A G-60 GALVANIZED COATING, MEETING ASTM A-653.
F. SELF-DRILLING TAPPING SCREW FASTENERS SHALL BE IN COMPLIANCE WITH ASTM C1513 OR AN APPROVED DESIGN OR RECOGNIZED DESIGN STANDARD. ALL SCREWS SHALL BE NON-CORROSIVE NO. 12-14 STANDARD SELF-DRILLING SCREWS UNLESS NOTED OTHERWISE ON DRAWINGS (DO NOT USE STAINLESS STEEL OR COPPER COATED FASTENERS).
G. ALL POWDER ACTUATED FASTENERS (PAF) SHALL BE 0.177" DIAMETER POWDER ACTUATED FASTENERS.
H. ALL SCREWS SHALL BE SPACED NO CLOSER THAN 1" ON CENTER UNLESS NOTED OTHERWISE ON DRAWINGS. MIN EDGE DISTANCE FOR SCREWS SHALL BE 1".
I. UNLESS NOTED OTHERWISE, TRACKS SHALL BE SAME DEPTH AS STUDS OR JOISTS AND EQUAL OR THICKER GAUGE THAN STUDS OR JOISTS. TRACKS SHALL BE CONNECTED TO SUPPORTS WITH TWO SCREWS OR PINS AT 16" MAX STUDS OR JOISTS SHALL BE CONNECTED TO TRACKS AT EACH SIDE.
J. ALL WELDING TO BE PERFORMED BY A QUALIFIED WIRE FEED WELDER PER ASTM A-108. FIELD WELDING SHALL BE DONE WITH E60 ELECTRODES. WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY STANDARD D13, LATEST EDITION.
K. APPLY ZINC COATING TO ALL WELDS.
L. CONTRACTOR SHALL FURNISH COMPLETE FABRICATION AND ERECTION DRAWINGS FOR APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO THE COMMENCEMENT OF FABRICATION. INCLUDE PLACING DRAWINGS FOR FRAMING MEMBERS SHOWING SIZE AND GAGE DESIGNATIONS, NUMBER, TYPE, LOCATION AND SPACING. INDICATE SUPPLEMENTAL TRAPPING, BRACES, SPLICES, BRIDGING, ACCESSORIES AND DETAILS REQUIRED FOR PROPER INSTALLATION.
M. MULTIPLE STUD COLUMNS (INCLUDING JACK/FULL HT. STUD ASSEMBLIES EACH SIDE OF OPENINGS) SHALL BE WELDED TOGETHER AT BOTH FLANGES WITH 2" TOP AND BOTTOM AND 1" AT 24" O.C. BETWEEN. IF SCREWED CONNECTIONS REQUIRED TO FASTEN STUDS, PROVIDE (2) ROWS OF SCREWS AT SPACINGS NOTED FOR WELDS, FASTENED AT WEBS (NOTE: ADDITIONAL TRACK MEMBERS, SAME DEPTH AND GAGE AS STUD MEMBERS (MINIMUM), MAY BE REQUIRED. TO BUILD BOX MEMBERS TO PROVIDE WEB SCREW CONNECTIONS NOTED. FASTEN FLANGES OF TRACKS TO FLANGES OF STUDS WITH SCREWS EACH FLANGE AT SAME SPACING NOTED ABOVE.)
M. THE QUANTITY OF STUDS AND JOISTS DISPLACED OR CUT FOR OPENING SHALL BE PLACED HALF ON EACH SIDE OF OPENING, UNLESS NOTED OTHERWISE, (2) STUDS MIN EACH SIDE OF OPENING.
N. ALL WELDING TO BE PERFORMED BY A QUALIFIED WIRE FEED WELDER PER ASTM A-108. FIELD WELDING SHALL BE DONE WITH E60 ELECTRODES. WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY STANDARD D13, LATEST EDITION.
O. APPLY ZINC COATING TO ALL WELDS.
P. CONTRACTOR SHALL FURNISH COMPLETE FABRICATION AND ERECTION DRAWINGS FOR APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO THE COMMENCEMENT OF FABRICATION. INCLUDE PLACING DRAWINGS FOR FRAMING MEMBERS SHOWING SIZE AND GAGE DESIGNATIONS, NUMBER, TYPE, LOCATION AND SPACING. INDICATE SUPPLEMENTAL TRAPPING, BRACES, SPLICES, BRIDGING, ACCESSORIES AND DETAILS REQUIRED FOR PROPER INSTALLATION.
Q. MULTIPLE STUD COLUMNS (INCLUDING JACK/FULL HT. STUD ASSEMBLIES EACH SIDE OF OPENINGS) SHALL BE WELDED TOGETHER AT BOTH FLANGES WITH 2" TOP AND BOTTOM AND 1" AT 24" O.C. BETWEEN. IF SCREWED CONNECTIONS REQUIRED TO FASTEN STUDS, PROVIDE (2) ROWS OF SCREWS AT SPACINGS NOTED FOR WELDS, FASTENED AT WEBS (NOTE: ADDITIONAL TRACK MEMBERS, SAME DEPTH AND GAGE AS STUD MEMBERS (MIN), MAY BE REQUIRED. TO BUILD BOX MEMBERS TO PROVIDE WEB SCREW CONNECTIONS NOTED. FASTEN FLANGES OF TRACKS TO FLANGES OF STUDS WITH SCREWS EACH FLANGE AT SAME SPACING NOTED ABOVE.

STRUCTURAL STEEL:
A. CONFORM TO AISC MANUAL OF STEEL CONSTRUCTION, THIRTEENTH EDITION, AISC 360-05.
B. MATERIALS:
1. ASTM A 992, FY=50 KSI FOR WIDE FLANGE SHAPES.
2. ASTM A 36, FY=36 KSI FOR ALL OTHER MISC. SHAPES, U.N.O.
3. ASTM A 500, GRADE B, FY=46 KSI FOR STRUCTURAL RECTANGULAR/SQUARE TUBES.
4. ASTM A 500, GRADE B, FY=42 KSI FOR STRUCTURAL ROUND TUBES.
5. ASTM A 53, GRADE B, FY=35 KSI FOR PIPES.
6. ASTM A 325, TYPE 1, FOR HIGH STRENGTHS BOLTS.
7. ASTM A 563, HEX NUTS – GRADE C FOR A325 BOLTS, GRADE DH FOR A490 BOLTS, GRADE DH FOR GALVANIZED BOLTS.
8. ASTM F 436, HARDENED STEEL WASHERS – TYPE 1.
9. ASTM F 1554, FY=36 KSI FOR ANCHOR RODS.
C. THE DESIGN OF CONNECTIONS FOR ANY PORTION OF THE STRUCTURE NOTE INDICATED ON THE DRAWINGS SHALL BE DESIGNED BY THE FABRICATOR AS FOLLOWS:
1.STANDARD CONNECTIONS SHALL BE USED WHERE POSSIBLE.
2. ALL SHOP CONNECTIONS SHALL BE WELDED OR HIGH-STRENGTH BOLTED. FIELD CONNECTIONS SHALL BE HIGH-STRENGTH BOLTED WHERE POSSIBLE. UNLESS NOTED OTHERWISE, BOLTS SHALL BE ¾" DIAMETER ASTM A-325 TYPE N BEARING CONNECTIONS. BOLTS SHALL BE "SNUG-TIGHT".
3. PROVIDE THE MINIMUM NUMBER OF BOLTS REQUIRED TO DEVELOP THE BEAM SHEAR "B" NOTED ON THE CONTRACT DRAWINGS. IF THE BEAM SHEAR IS NOT NOTED, THE CONNECTIONS SHALL DEVELOP THE BEAM SHEAR V = W/2 WHERE W IS THE TOTAL ALLOWABLE BEAM UNIFORM LOAD BASED ON LATERALLY SUPPORTED SIMPLE SPAN MOMENTS PER TABLES LOCATED IN THE AISC MANUAL OF STEEL CONSTRUCTION, 13TH EDITION, BEAMS, PAGES 3-33 THRU 3-95. BEAM SHEAR "V" NOTED ON THE CONTRACT DRAWINGS IS THE SERVICE LOAD BEAM REACTION U.N.O.
4. DESIGN OF SPECIAL CONNECTIONS SHALL BE PERFORMED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH CONSTRUCTION IS TO OCCUR AND SHALL INCLUDE (BUT IS NOT LIMITED TO) BRACE END CONNECTIONS, MOMENT-RESISTING CONNECTIONS, MODIFIED BEAM SEAT CONNECTIONS AND MEMBER SPLICE CONNECTIONS.
D. MEMBERS SUPPORTING DECK AT THE PERIMETER OF THE BUILDING SHALL BE CONTINUOUS EXCEPT AT EXPANSION JOINT. SQUARE GROOVE WELD (BUTT JOINT) CONTINUOUS MEMBERS PLACED END TO END.
E. ALL STRUCTURAL STEEL NOT RECEIVING FIRE-PROOFING SHALL RECEIVE ONE SHOP COAT OF RUST-INHIBITIVE PRIMER. ALL STEEL WITH EXTERIOR EXPOSURE SHALL BE PAINTED WITH A DOUBLE COAT OF RUST PROHIBITIVE EPOXY PRIMER (MATERIAL AND THICKNESS TO BE SPECIFIED BY ARCHITECT).
F. STEEL COLUMNS AND BASE PLATES SHALL HAVE MINIMUM 3" CONCRETE COVER PROTECTION.
G. ALL BOLTED CONNECTIONS SHALL BE ASSEMBLED AND INSPECTED IN ACCORDANCE WITH RCSC-2004 "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A-325 OR ASTM A-490 BOLTS".
H. ALL STEEL TESTING SHALL BE PAID FOR BY THE OWNER (CONTRACTOR SHALL COORDINATE WITH OWNER TO ENSURE THAT COST OF TESTING IS ACCURATE AND PRESENTED TO OWNER WITH CONSTRUCTION COSTS).
I. GUSSET PLATES AND STIFFENER PLATES SHALL BE 3/8" MIN. UNLESS NOTED OTHERWISE.
J. SPLICING OF STEEL MEMBERS IS PROHIBITED WITHOUT PRIOR APPROVAL OF ENGINEER OF RECORD WITH REGARDS TO LOCATION & SPLICE TYPE AND LOADING ON SPLICE.
K. PUNCH STRUCTURAL STEEL FOR WOOD BLOCKING AND NAILERS IN ACCORDANCE WITH ARCHITECTURAL AND STRUCTURAL DETAILS.
L. CONNECTIONS SHALL BE DESIGNED AS BEARING-TYPE CONNECTIONS WITH THREADS IN THE SHEAR PLANE, UNLESS NOTED OTHERWISE. ALL BOLTS NOTED AS SLIP-CRITICAL SHALL BE TIGHTENED TO THE MINIMUM PRETENSION VALUE SHOWN IN TABLE J3.1 OF THE AISC STEEL MANUAL, USING COMPRESSIBLE-WASHER-TYPE DIRECT TENSION INDICATOR DEVICES CONFORMING TO ASTM F959.
M. DETAILING, FABRICATION AND ERECTION SHALL COMPLY WITH ALL APPLICABLE OSHA REGULATIONS, INCLUDING THE FABRICATION OF ADDITIONAL PLATES, CONNECTORS, HOLES AND OTHER ELEMENTS NOT NOTED ON THE DRAWINGS.
N. UNLESS NOTED OTHERWISE, SLOTTED HOLES FOR BEAM END CONNECTIONS ARE NOT ALLOWED FOR BEAMS ALIGNED ALONG A COLUMN LINE WITH A BRACED FRAME OR MOMENT FRAME ALIGNED ON THE COLUMN LINE.
O. EXPANSION ANCHORS AS SHOWN ON CONTRACT DOCUMENTS SHALL BE HILTI KWIK BOLT 3 ANCHORS MANUFACTURED BY HILT

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Rev. #	Revision Date	Revision Description

Dan Lynch

Lady's Island Storage

18 Sams Pointe Rd
Beaufort, SC 29907



Roger S. Lingerfelt, P.E.
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770-207-7997
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South Carolina P.E. Number 11352

APPLICATION OF SEAL IS FOR METAL BUILDING ONLY AND DOES NOT REPRESENT THE PROFESSIONAL OF RECORD.

SSI Project Number	1008
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

S012

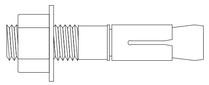
General Notes



1 #12 x 3/4" Tek Screw
12" = 1'-0"



2 #14 x 1 1/4" Tek Screw
12" = 1'-0"



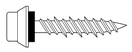
3 Wedge Anchor
12" = 1'-0"



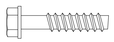
4 Long LifeLaptek
12" = 1'-0"



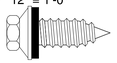
5 Pop Rivet
12" = 1'-0"



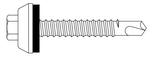
6 #14 x 1 3/8" Long Life Masonry Screw
12" = 1'-0"



7 1/4" x 1 1/4" Concrete Screw
12" = 1'-0"



8 Repair Screw
12" = 1'-0"



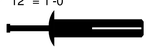
9 1 1/4" Long Life Screw
12" = 1'-0"



10 Finhead Bolt
12" = 1'-0"



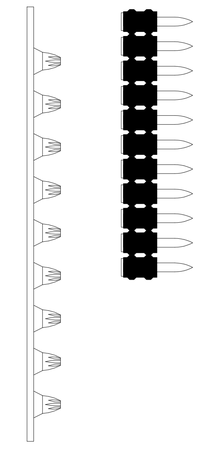
11 Tek 5 x 1 1/2" Screws
12" = 1'-0"



12 Nail Drive Masonry Anchor
12" = 1'-0"



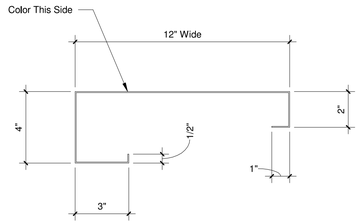
13 #12 x 2" Tek Screw
12" = 1'-0"



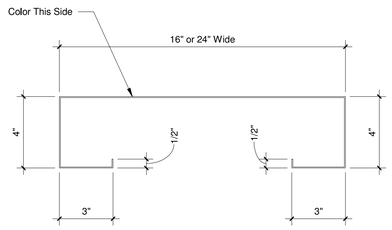
14 Shot & Pins
12" = 1'-0"



15 Large Diameter Screw Anchor
12" = 1'-0"

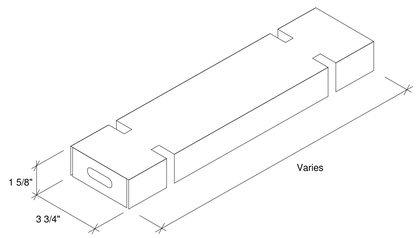


HALF PIER

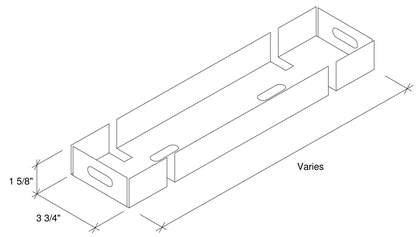


FULL PIER

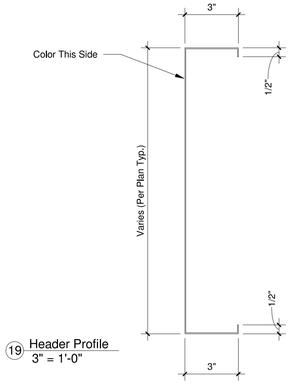
16 Pier Profile
3" = 1'-0"



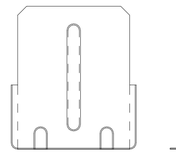
17 Pier Cap
3" = 1'-0"



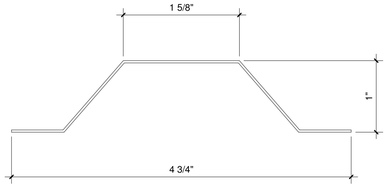
18 Pier Base
3" = 1'-0"



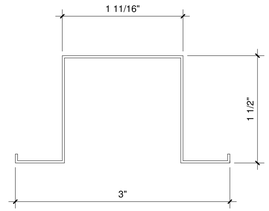
19 Header Profile
3" = 1'-0"



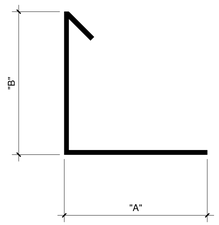
20 Post Base Clip
6" = 1'-0"



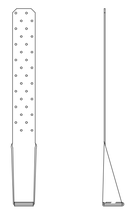
21 1" Sub-Girt
12" = 1'-0"



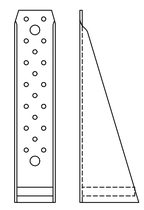
22 Hat Track
12" = 1'-0"



23 Pour Stop
6" = 1'-0"



24 Simpson Tension Tie (HTT)
1 1/2" = 1'-0"



25 Simpson Tension Tie (S/HDS)
3" = 1'-0"

Connection To Flange of Stud Each Side

Header Connection Schedule

Depth (in.)	Gauge	Quantity #12 Tek Screws Per Column / Side
6	16	4
6	14	4
8	16	4
8	14	6
8	12	6
10	16	6
10	14	8
10	12	8
12	16	6
12	14	8
12	12	8

NOTE:
Minimum Spacing For #12 Tek is 11/16";
Minimum Edge Distance is 3/8"

26 Header Connection Schedule
1 1/2" = 1'-0"

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Rev. #	Revision Date	Revision Description

Dan Lynch

Lady's Island Storage

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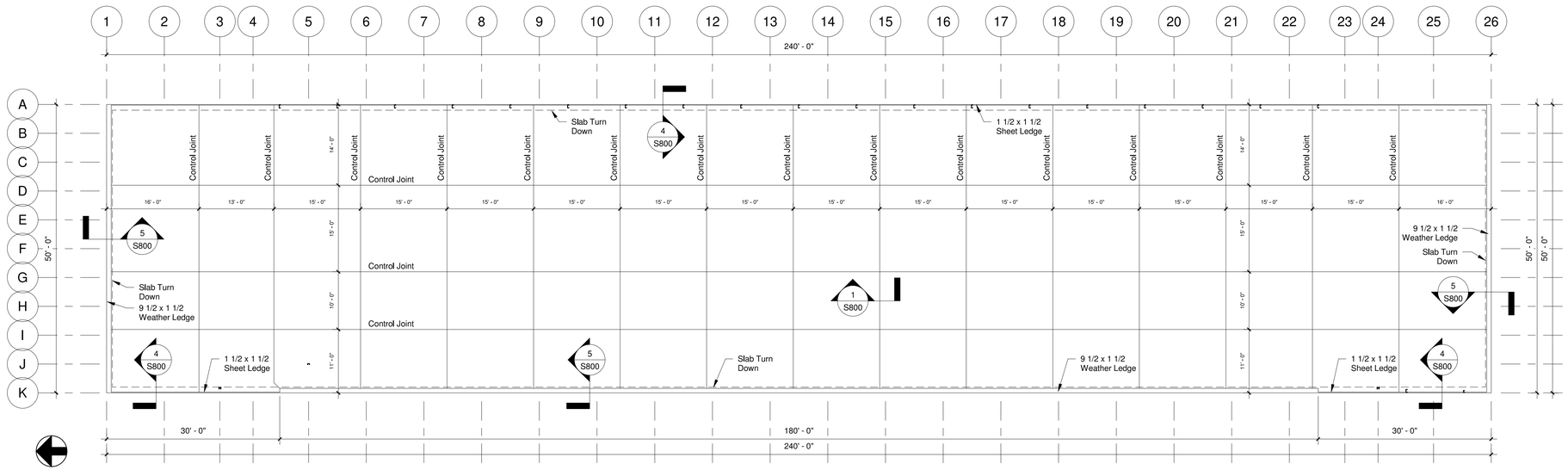
rogerlingerfelt@gmail.com
South Carolina P.E. Number 11352

APPLICATION OF SEAL IS FOR METAL BUILDING ONLY AND DOES NOT REPRESENT THE PROFESSIONAL OF RECORD.

SSI Project Number	1008
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

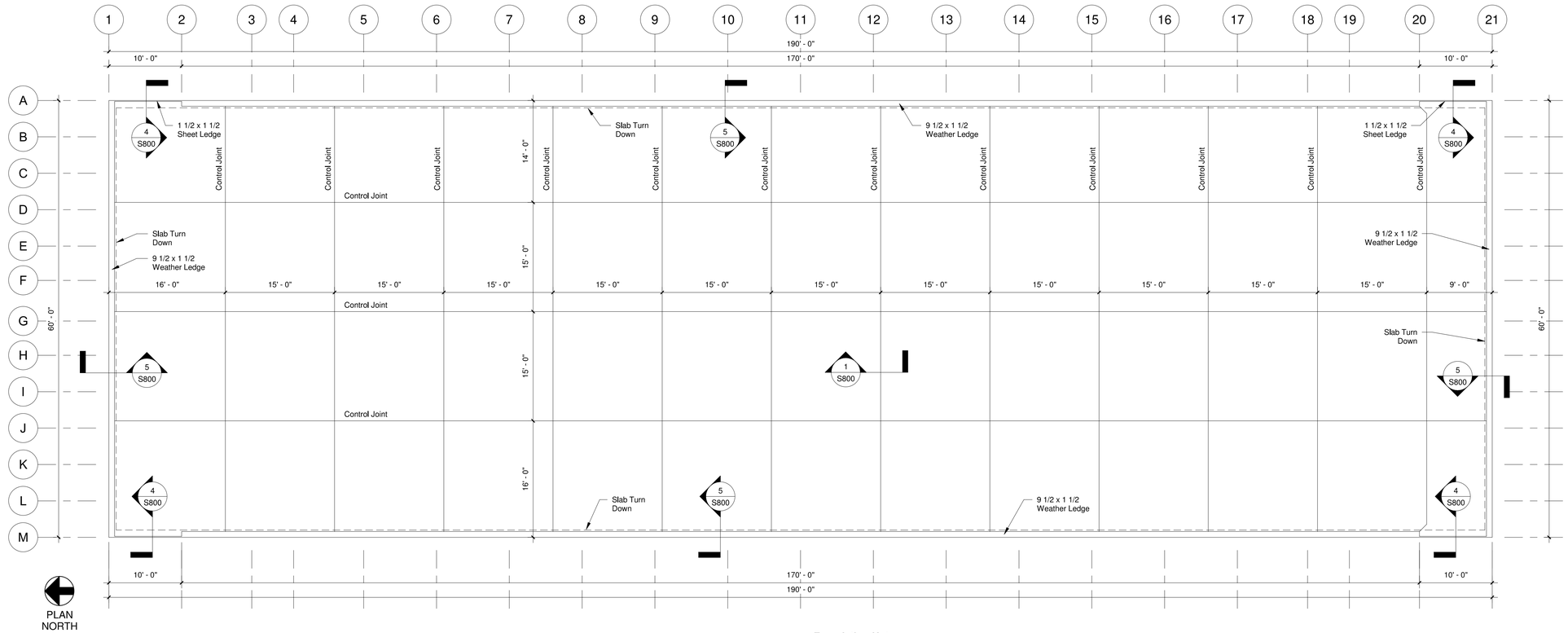
S020

Fasteners & Components



PLAN NORTH

1 Building 'A' (Foundation Plan)
3/32" = 1'-0"



PLAN NORTH

2 Building 'B' (Foundation Plan)
1/8" = 1'-0"

Foundation Notes

4" Concrete Slab On Grade 3,000 PSI Concrete w/ WWF 6x6-W1.6xW1.6 Over 10 MIL Vapor Barrier Over 4" Aggregate Gravel Layer By Concrete Contractor.

4" Aggregate layer Underneath Building Slab May Be Removed As Long As A 95% Compaction Is Achieved In The Slab Underlayment.

Provide (2) #5 Crack Prevention Bars At Each Reentrant Corner, 6'-0" Long, Centered, Mid-Depth Of Slab.

Provide Control Joint Via Saw Cut At 15'-0" o.c. Maximum In Each Direction, See Typical Saw Joint Detail For More Information.

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Rev. #	Revision Date	Revision Description
1	2-25-2021	Owner Unit Mix Revision

Dan Lynch

Lady's Island Storage

18 Sams Pointe Rd
Beaufort, SC 29907

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
No. 11352
ROGER S. LINGERFELT
3/5/2021

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South Carolina P.E. Number 11352

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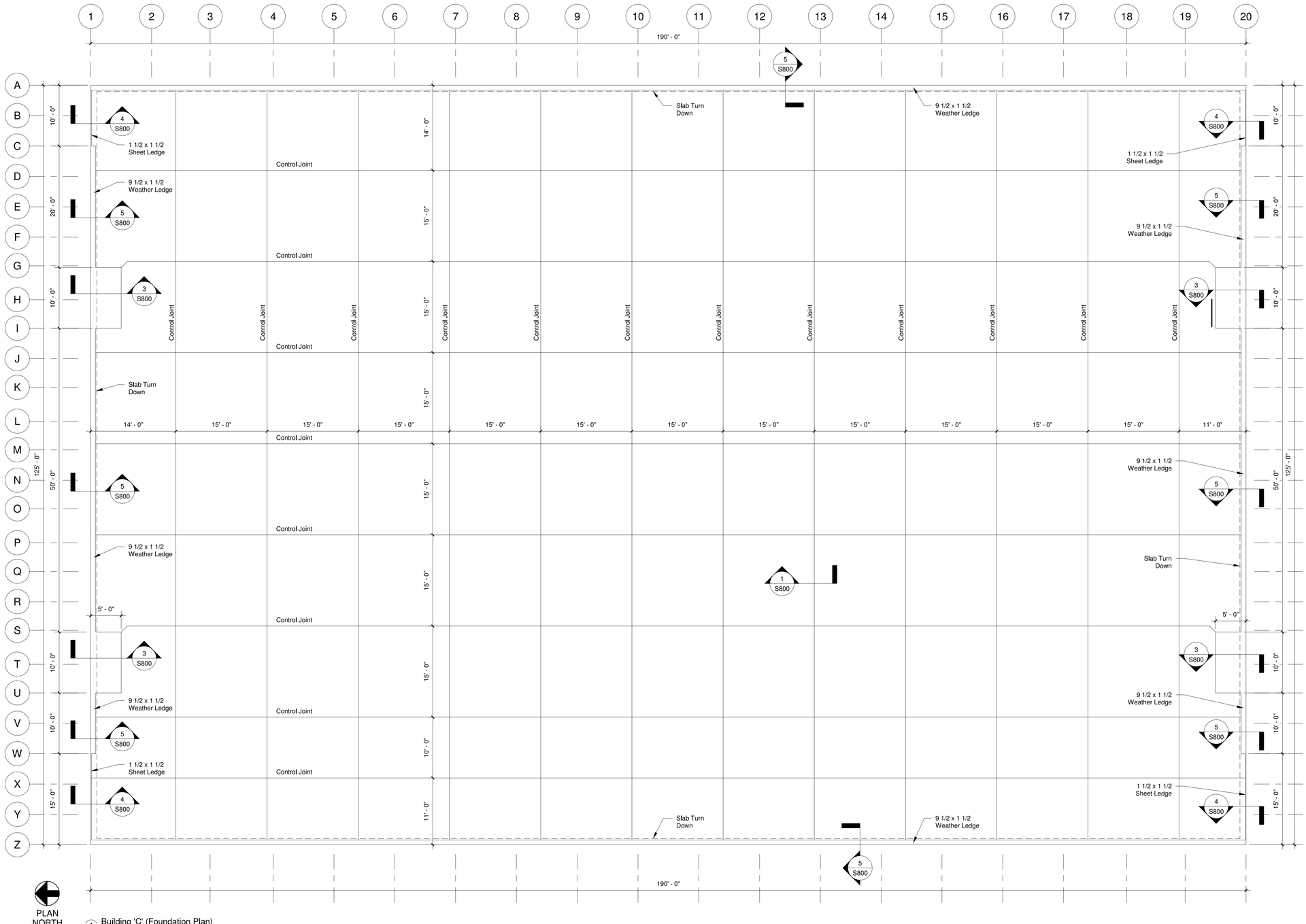
SSI Project Number	1008
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

S100

Building 'A' & 'B' Foundation Plan



PLAN NORTH

1 Building 'C' (Foundation Plan)
1/8" = 1'-0"

Foundation Notes

4" Concrete Slab On Grade 3,000 PSI Concrete w/ WWF 6x6-W1.6xW1.6 Over 10 MIL Vapor Barrier Over 4" Aggregate Gravel Layer By Concrete Contractor.

4" Aggregate layer Underneath Building Slab May Be Removed As Long As A 95% Compaction Is Achieved In The Slab Underlayment.

Provide (2) #5 Crack Prevention Bars At Each Reentrant Corner, 6'-0" Long, Centered, Mid-Depth Of Slab.

Provide Control Joint Via Saw Cut At 15'-0" o.c. Maximum In Each Direction, See Typical Saw Joint Detail For More Information.

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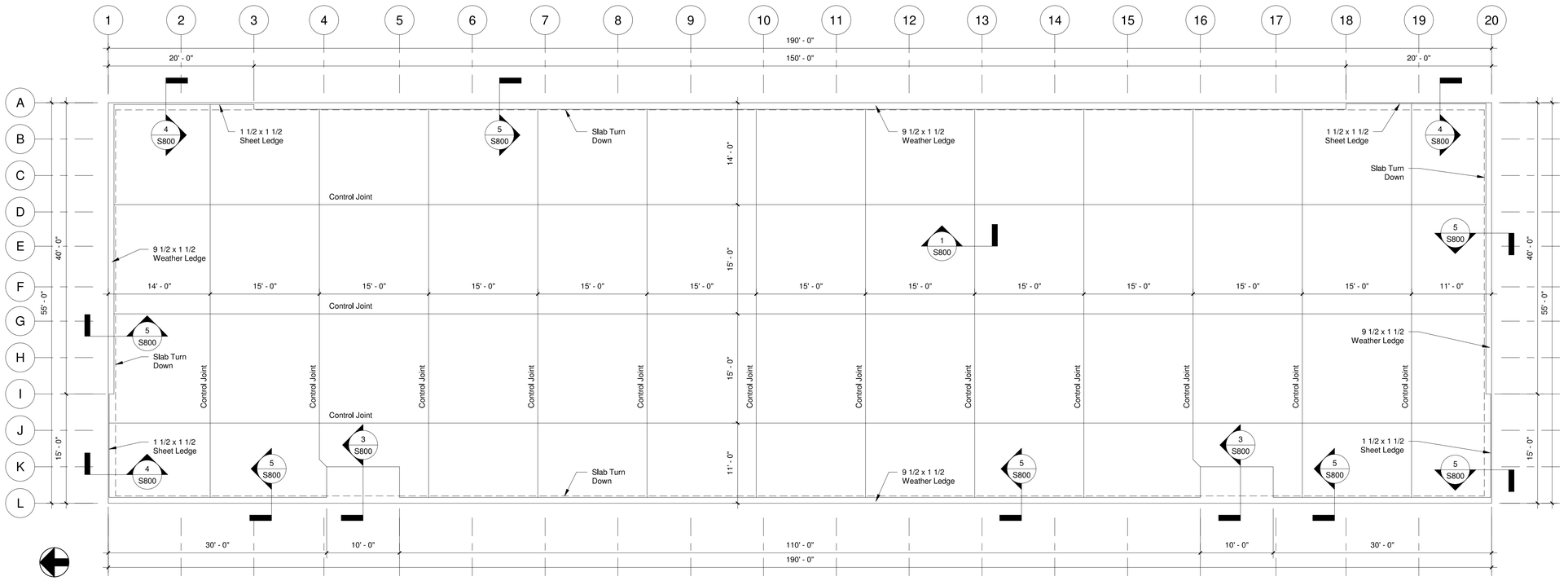
APPLICATION OF SEAL IS FOR METAL BUILDING ONLY AND DOES NOT REPRESENT THE PROFESSIONAL OF RECORD.

SSI Project Number	1008
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

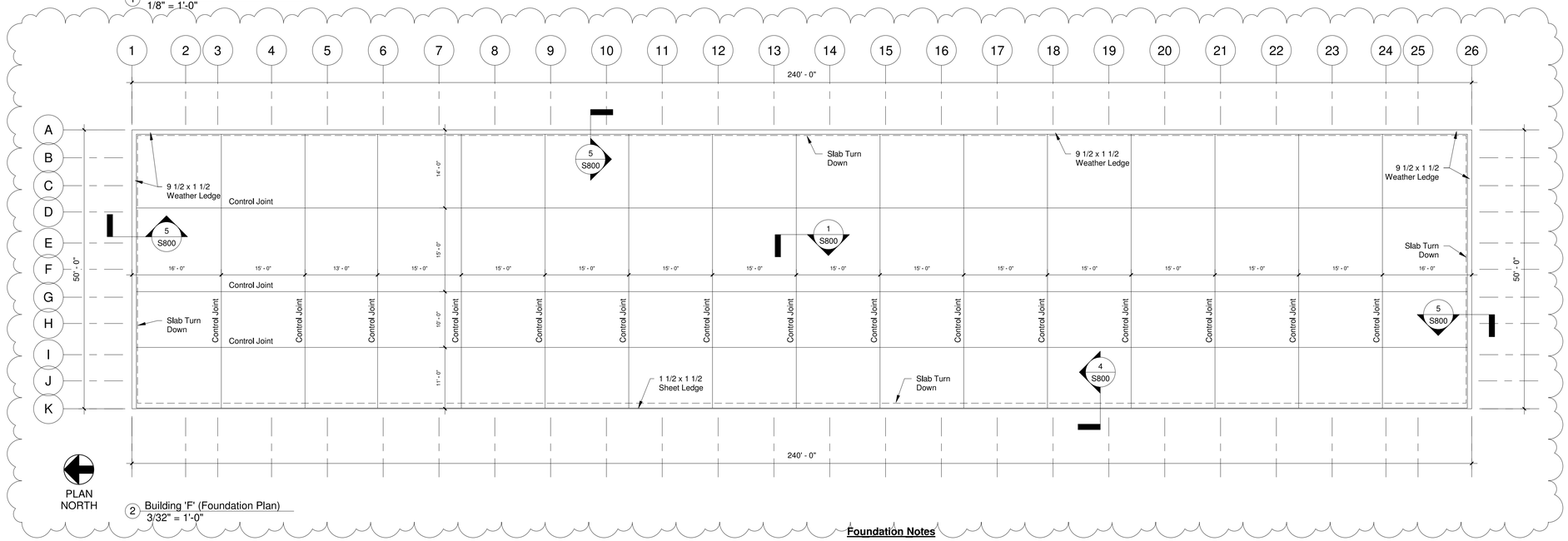
S101

Building 'C' Foundation Plans



PLAN NORTH

1 Building 'D' (Foundation Plan)
1/8" = 1'-0"



PLAN NORTH

2 Building 'F' (Foundation Plan)
3/32" = 1'-0"

Foundation Notes

4" Concrete Slab On Grade 3,000 PSI Concrete w/ WWF 6x6-W1.6xW1.6 Over 10 MIL Vapor Barrier Over 4" Aggregate Gravel Layer By Concrete Contractor.

4" Aggregate layer Underneath Building Slab May Be Removed As Long As A 95% Compaction Is Achieved In The Slab Underlayment.

Provide (2) #5 Crack Prevention Bars At Each Reentrant Corner, 6'-0" Long, Centered, Mid-Depth Of Slab.

Provide Control Joint Via Saw Cut At 15'-0" o.c. Maximum In Each Direction, See Typical Saw Joint Detail For More Information.

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Rev. #	Revision Date	Revision Description
1	2-25-2021	Owner Unit Mix Revision

Dan Lynch

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18 Sams Pointe Rd
Beaufort, SC 29907

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 11352 ROGER S. LINGERFELT
3/5/2021

Roger S. Lingerfelt, P.E.
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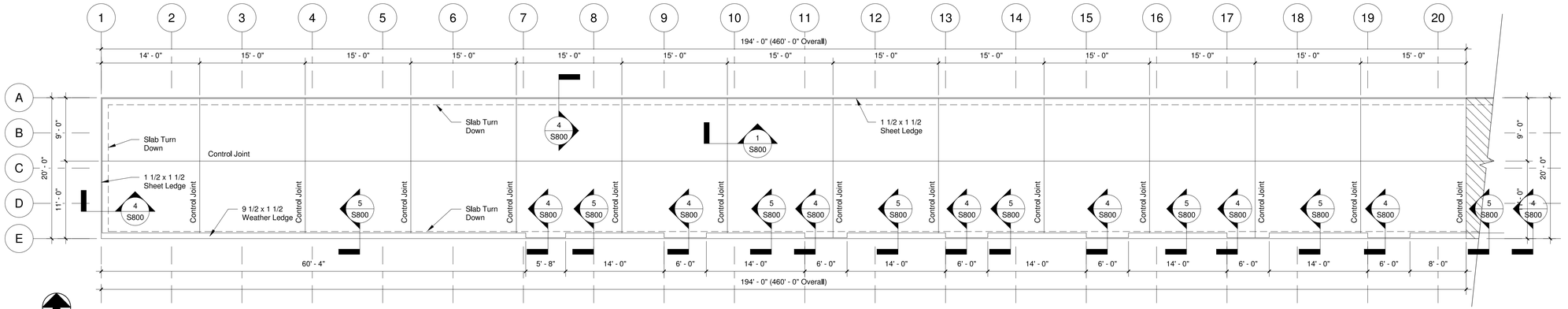
South Carolina P.E. Number 11352

APPLICATION OF SEAL IS FOR METAL BUILDING ONLY AND DOES NOT REPRESENT THE PROFESSIONAL OF RECORD.

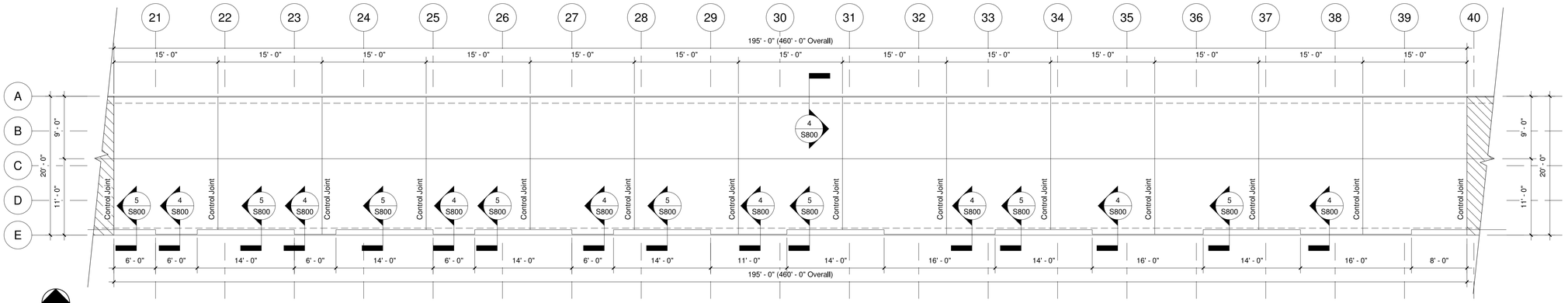
SSI Project Number	1008
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

S102

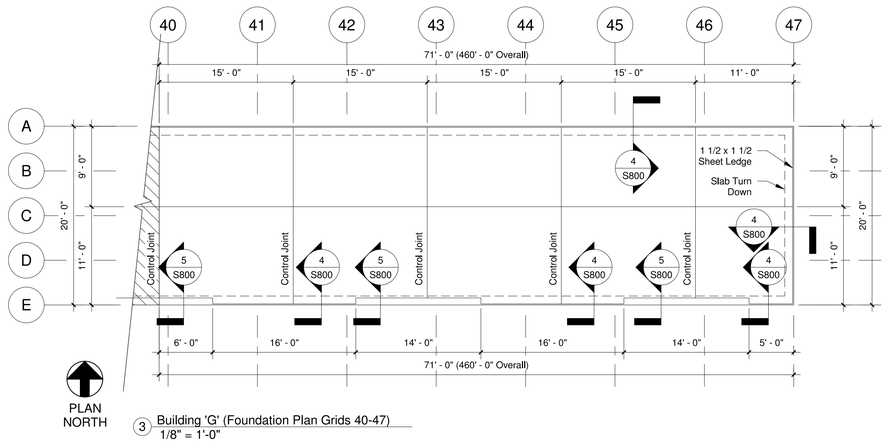
Building 'D' & 'F' Foundation Plans



1 Building 'G' (Foundation Plan Grids 1-20)
1/8" = 1'-0"



2 Building 'G' (Foundation Plan Grids 20-40)
1/8" = 1'-0"



3 Building 'G' (Foundation Plan Grids 40-47)
1/8" = 1'-0"

Foundation Notes

4" Concrete Slab On Grade 3,000 PSI Concrete w/ WWF 6x6-W1.6xW1.6 Over 10 MIL Vapor Barrier Over 4" Aggregate Gravel Layer By Concrete Contractor.

4" Aggregate layer Underneath Building Slab May Be Removed As Long As A 95% Compaction Is Achieved In The Slab Underlayment.

Provide (2) #5 Crack Prevention Bars At Each Reentrant Corner, 6'-0" Long, Centered, Mid-Depth Of Slab.

Provide Control Joint Via Saw Cut At 15'-0" o.c. Maximum In Each Direction, See Typical Saw Joint Detail For More Information.

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STORAGE STRUCTURES

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www.storagestructuresinc.com

Rev. #	Revision Date	Revision Description
1	2-25-2021	Owner Unit Mix Revision

Dan Lynch

Lady's Island Storage

18 Sams Pointe Rd
Beaufort, SC 29907



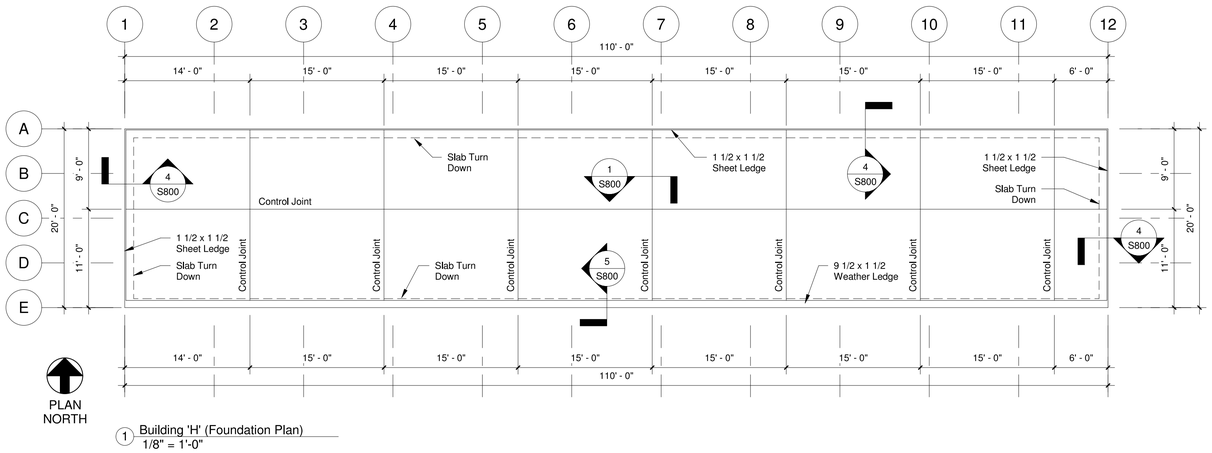
Roger S. Lingerfelt, P.E.
3360 Stock Road
Monroe, GA 30656
770-207-7997
rogerlingerfelt@gmail.com
South Carolina P.E. Number 11352

APPLICATION OF SEAL IS FOR METAL BUILDING ONLY AND DOES NOT REPRESENT THE PROFESSIONAL OF RECORD.

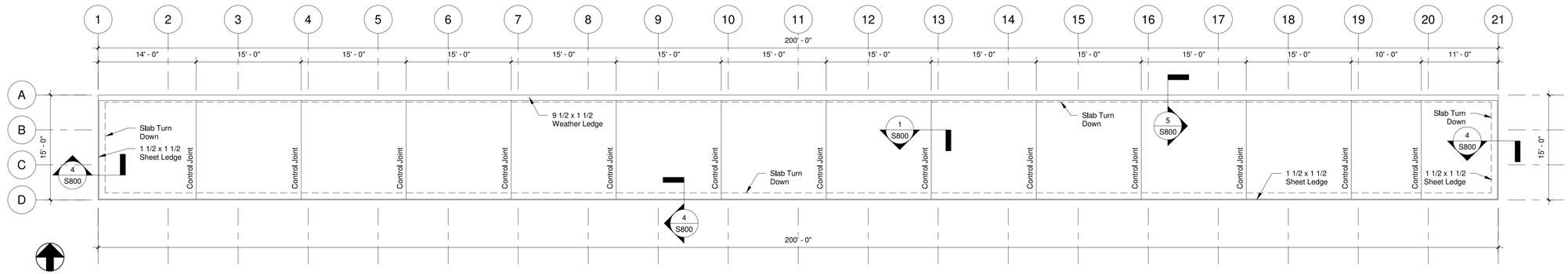
SSI Project Number	1008
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

S103

Building 'G' Foundation Plans



1 Building 'H' (Foundation Plan)
1/8" = 1'-0"



2 Building 'I' (Foundation Plan)
1/8" = 1'-0"

Foundation Notes

4" Concrete Slab On Grade 3,000 PSI Concrete w/ WWF 6x6-W1.6xW1.6 Over 10 MIL Vapor Barrier Over 4" Aggregate Gravel Layer By Concrete Contractor.

4" Aggregate layer Underneath Building Slab May Be Removed As Long As A 95% Compaction Is Achieved In The Slab Underlayment.

Provide (2) #5 Crack Prevention Bars At Each Reentrant Corner, 6'-0" Long, Centered, Mid-Depth Of Slab.

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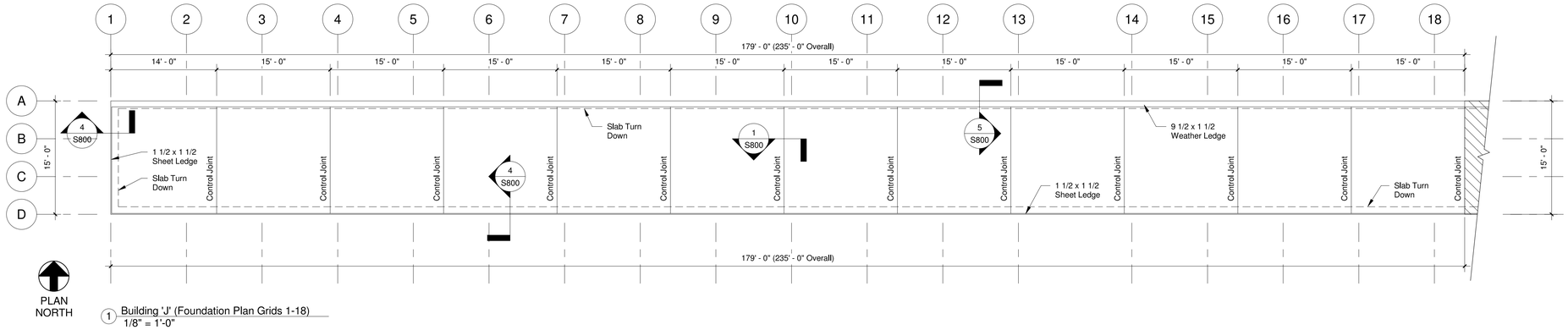
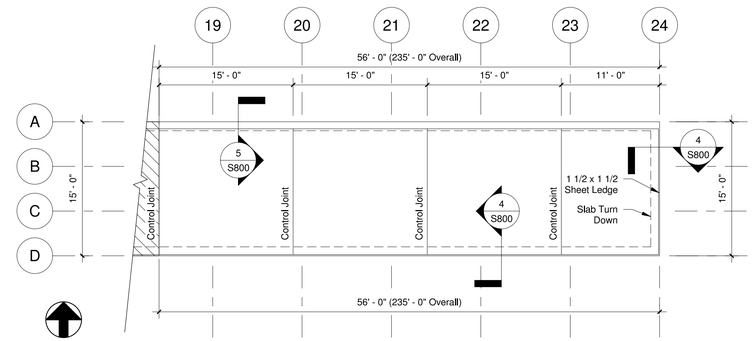
Engineered By	

S104

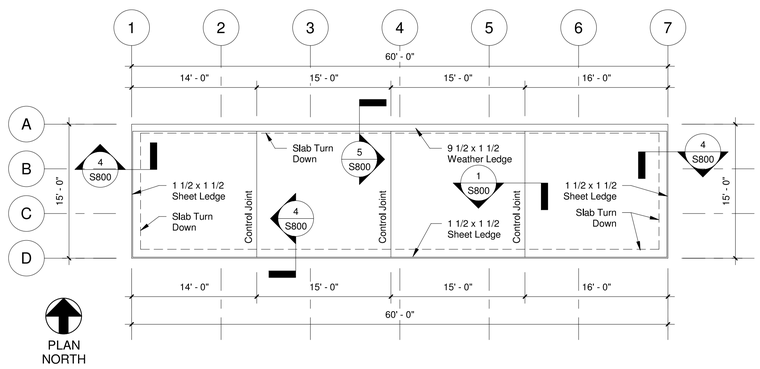
Building 'H' & 'I' Foundation Plans



1 Building 'J' (Foundation Plan Grids 1-18)
1/8" = 1'-0"



2 Building 'J' (Foundation Plan Grids 18-24)
1/8" = 1'-0"



3 Building 'K' (Foundation Plan)
1/8" = 1'-0"

Foundation Notes

4" Concrete Slab On Grade 3,000 PSI Concrete w/ WWF 6x6-W1.6xW1.6 Over 10 MIL Vapor Barrier Over 4" Aggregate Gravel Layer By Concrete Contractor.

4" Aggregate layer Underneath Building Slab May Be Removed As Long As A 95% Compaction Is Achieved In The Slab Underlayment.

Provide (2) #5 Crack Prevention Bars At Each Reentrant Corner, 6'-0" Long, Centered, Mid-Depth Of Slab.

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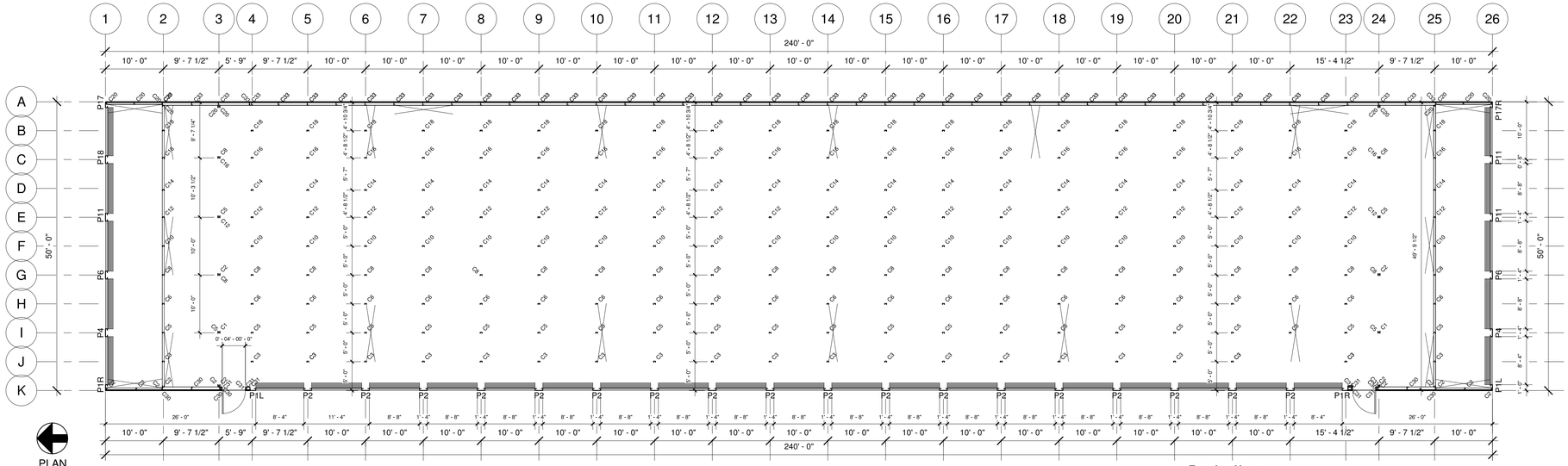
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

S105

Building 'J' & 'K' Foundation Plans



PLAN NORTH

1 Building 'A' (Post Plan)
3/32" = 1'-0"

Post Schedule					
Mark	Qty	Width	Depth	Length	Gauge
C1	2	4"	2"	8' - 11 1/2"	16ga
C2	14	4"	2"	9' - 2 1/2"	16ga
C3	24	4"	2"	9' - 4"	16ga
C5	26	4"	2"	9' - 5 1/2"	16ga
C6	22	4"	2"	9' - 7"	16ga
C8	26	4"	2"	9' - 8 1/2"	16ga
C10	22	4"	2"	9' - 10"	16ga
C12	24	4"	2"	9' - 11 1/2"	16ga
C14	22	4"	2"	10' - 1"	16ga

Post Schedule					
Mark	Qty	Width	Depth	Length	Gauge
C16	24	4"	2"	10' - 2 1/2"	16ga
C18	22	4"	2"	10' - 4"	16ga
C20	12	4"	2"	10' - 5 1/2"	16ga
C30	7	6"	2 1/2"	9' - 2 1/2"	16ga
C31	9	6"	2 1/2"	9' - 4"	16ga
C33	83	6"	2 1/2"	10' - 5 1/2"	16ga

16ga Pre-Finished Pier Schedule					
Mark	Qty	Width	Depth	Length	Gauge
P1L	2	12"	4"	9' - 4"	16ga
P1R	2	12"	4"	9' - 4"	16ga
P2	18	16"	4"	9' - 4"	16ga
P4	2	16"	4"	9' - 7"	16ga
P6	2	16"	4"	9' - 10"	16ga
P11	3	16"	4"	10' - 1"	16ga
P17	1	12"	4"	10' - 7"	16ga
P17R	1	12"	4"	10' - 7"	16ga
P18	1	16"	4"	10' - 4"	16ga

Framing Notes

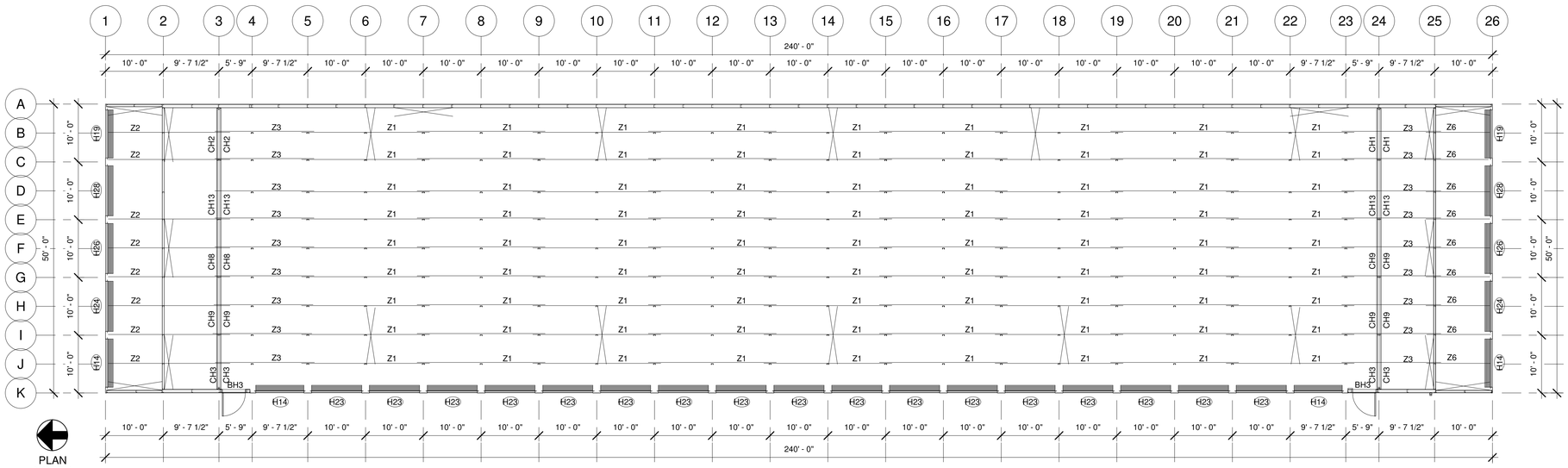
Interior Framing: 4" x 2" x 16ga Posts On A 5'-0" x 10'-0" Grid Framing System. (U.N.O.)

Exterior Wall Framing: 4" x 2" x 16ga Posts @ 5'-0" o.c. In 14ga Top & 16ga Bottom Track.

Exterior Floor Track - Punch Holes in Floor Track To Match Post Spacing For Wedge Anchors. Place Wedge Anchor 6" From Each End of Track.

X = X-Bracing

Exterior Dimensions Are Taken From The Outside Face Of Framing. Double Posts Are Dimensioned To Center of Main Post Only. All Other Dimensions Are Center To Center of Posts.
Hallways Should Have A Clear Dimension Of 5'-5" Between Post (U.N.O.).
Shaded Areas Indicate Hallways.



PLAN NORTH

2 Building 'A' (Framing Plan)
3/32" = 1'-0"

16ga Pre-Finished Header Schedule					
Mark	Qty	Width	Depth	Length	Gauge
H14	4	1' - 4"	3 1/2"	8' - 4"	16ga
H23	17	1' - 4"	3 1/2"	8' - 8"	16ga
H24	2	1' - 7"	3 1/2"	8' - 8"	16ga
H26	2	1' - 10"	3 1/2"	8' - 8"	16ga
H28	2	2' - 1"	3 1/2"	8' - 8"	16ga
H19	2	2' - 4"	3 1/2"	8' - 4"	16ga

Header Schedule					
Mark	Qty	Width	Depth	Length	Gauge
BH3	2	8"	6"	4' - 0"	14ga
CH1	2	6"	2 1/2"	8' - 10 1/2"	14ga
CH2	2	6"	2 1/2"	9' - 0"	14ga
CH3	4	6"	2 1/2"	9' - 5"	14ga
CH8	2	6"	2 1/2"	9' - 11"	14ga
CH9	6	6"	2 1/2"	10' - 0"	14ga
CH13	4	6"	2 1/2"	10' - 3 1/2"	14ga

Purlin Schedule					
Mark	Qty	Width	Depth	Length	Gauge
Z1	81	6"	2 1/2"	22' - 2"	16ga
Z2	8	6"	2 1/2"	21' - 1"	16ga
Z3	18	6"	2 1/2"	17' - 2"	16ga
Z6	9	6"	2 1/2"	11' - 1"	16ga

Framing Notes

Interior Framing: See Post Plans. Zee Purlins Every 5'-0" o.c. (U.N.O.)

Exterior Wall Framing: See Post Plans.

Exclusions: Brick Veneer/EIFS

X = X-Bracing

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Rev. #	Revision Date	Revision Description
1	2-25-2021	Owner Unit Mix Revision

Dan Lynch

Lady's Island Storage

18 Sams Pointe Rd
Beaufort, SC 29907

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER
No. 11352
ROGER S. LINGERFELT
3/5/2021

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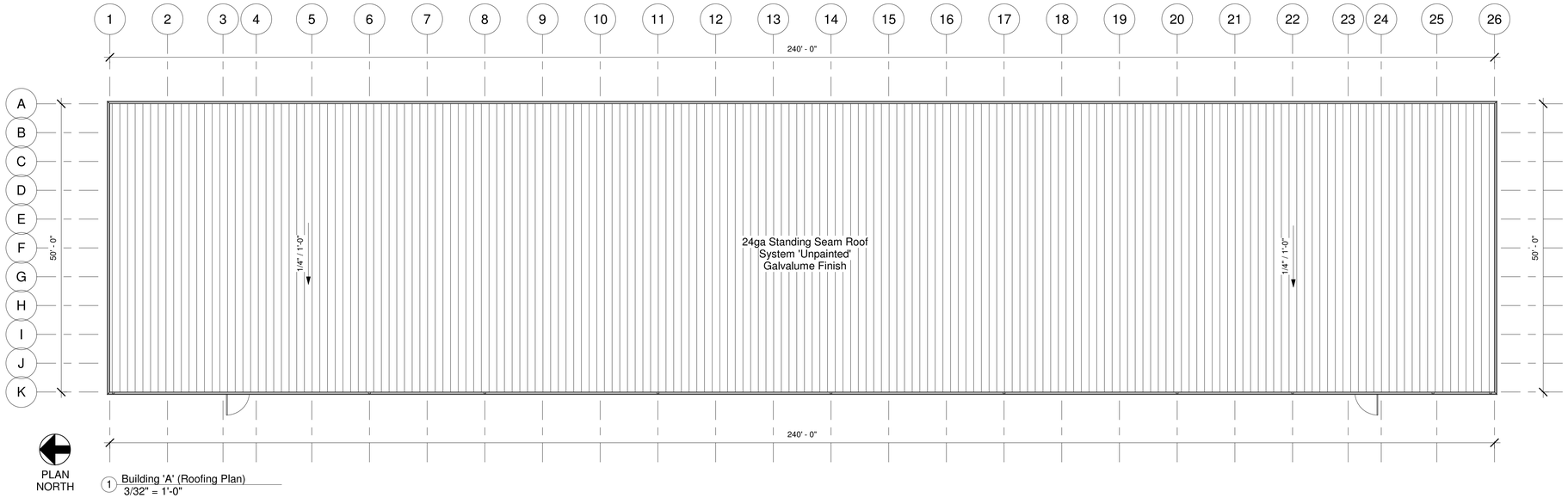
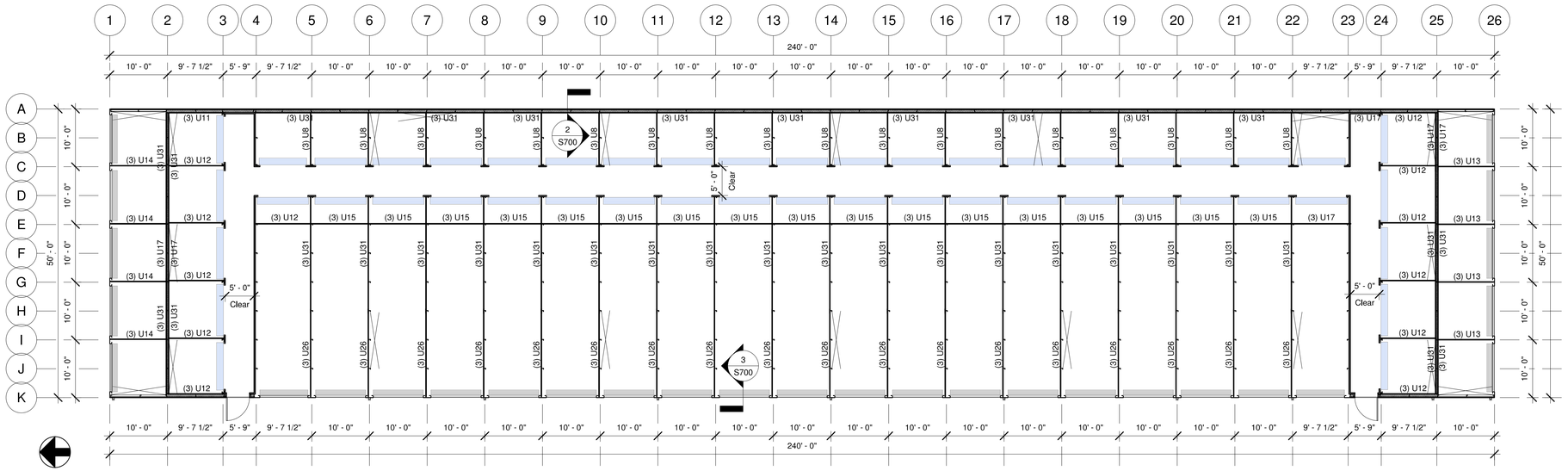
SSI Project Number	1008
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

S200

Building 'A' Plans



1 Building 'A' (Roofing Plan)
3/32" = 1'-0"


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
240' - 0"
10' - 0" 9' - 7 1/2" 5' - 9" 9' - 7 1/2" 10' - 0" 10' - 0" 10' - 0" 10' - 0" 10' - 0" 10' - 0" 10' - 0" 10' - 0" 10' - 0" 10' - 0" 10' - 0" 10' - 0" 10' - 0" 10' - 0" 10' - 0" 10' - 0" 10' - 0" 10' - 0" 9' - 7 1/2" 5' - 9" 9' - 7 1/2" 10' - 0"
A B C D E F G H I J K
50' - 0"
10' - 0" 10' - 0" 10' - 0" 10' - 0" 10' - 0"
(3) U11
(3) U14 (3) U31 (3) U31 (3) U12
(3) U14 (3) U12
(3) U14 (3) U17 (3) U17 (3) U12
(3) U14 (3) U12
(3) U14 (3) U31 (3) U31 (3) U12
(3) U12
(3) U31
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2 S700
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(3) U8
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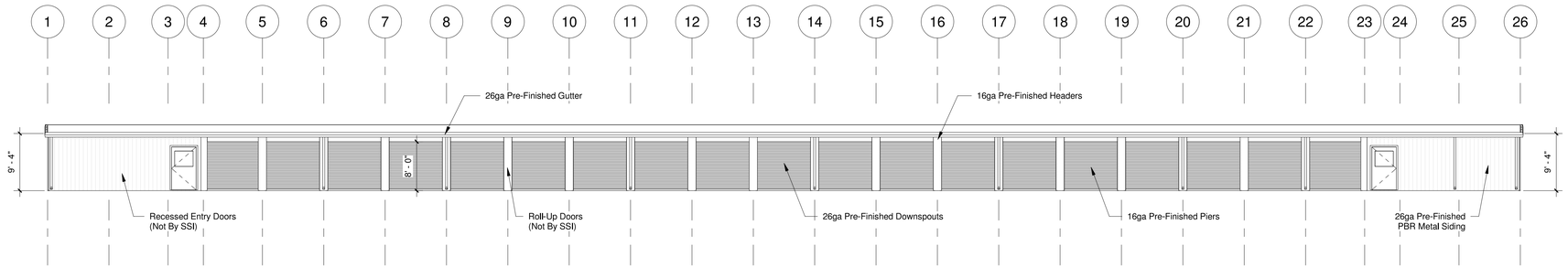
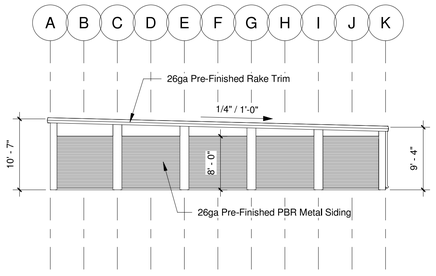
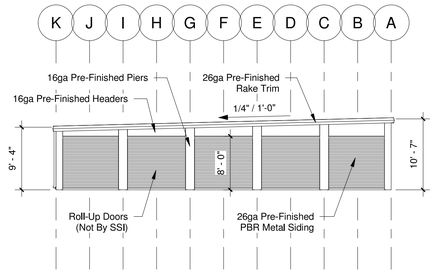
(3) U8



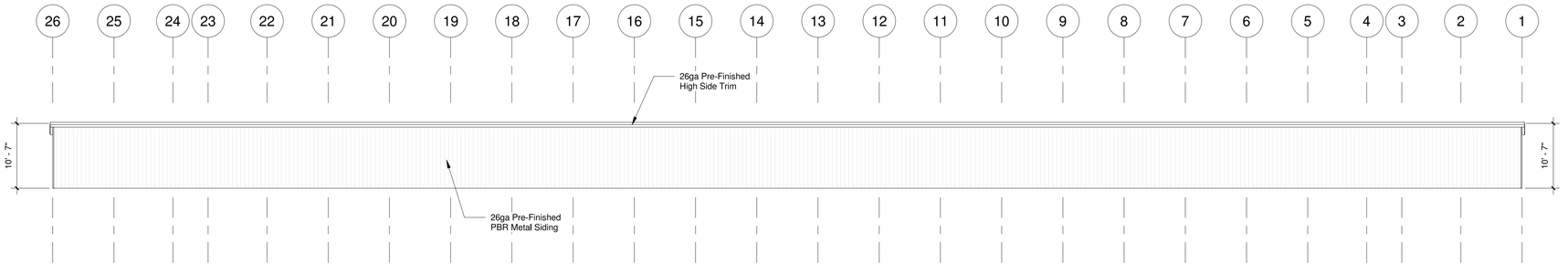
1 Building 'A' West Elevation
3/32" = 1'-0"



2 Building 'A' North Elevation
3/32" = 1'-0"



3 Building 'A' South Elevation
3/32" = 1'-0"



4 Building 'A' East Elevation
3/32" = 1'-0"

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Drawn By	JLW
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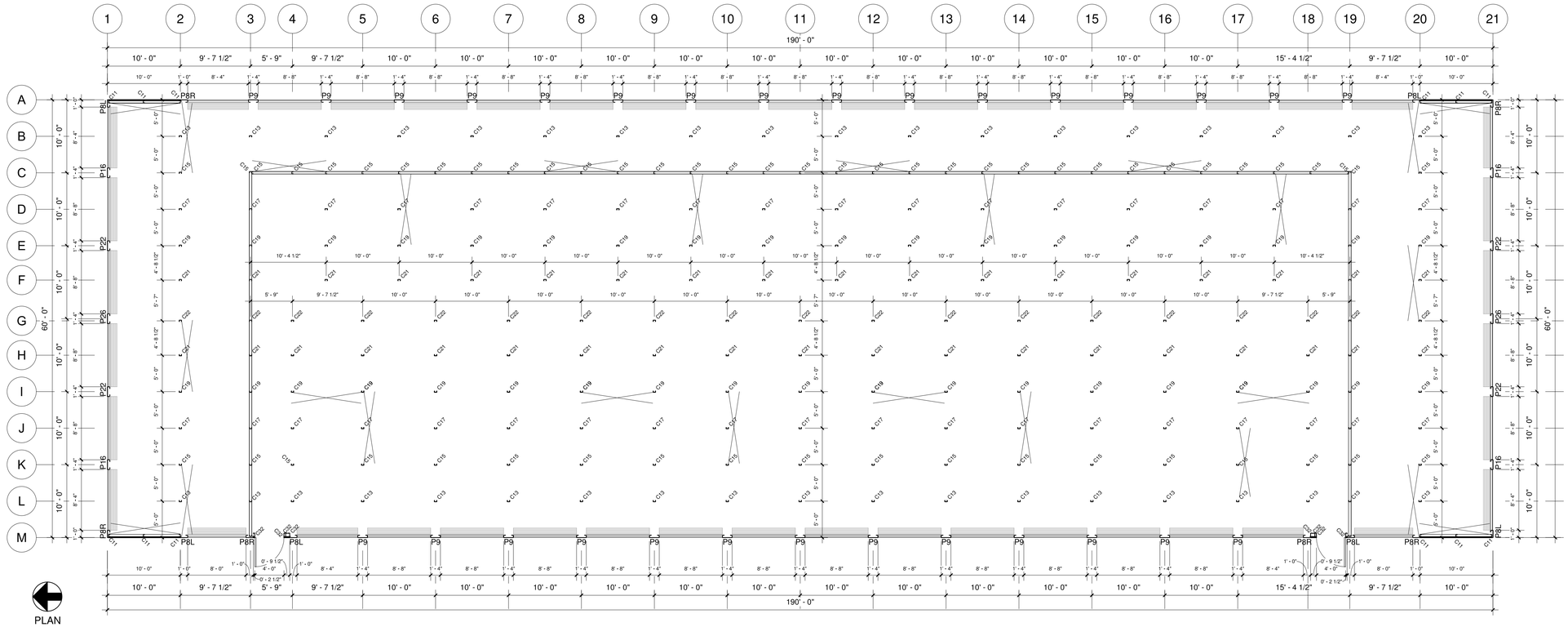
Engineered By	

S202

Building 'A' Elevations



1 Building 'B' (Post Plan)
1/8" = 1'-0"

16ga Pre-Finished Pier Schedule					
Mark	Qty	Width	Depth	Length	Gauge
P8L	6	12"	4"	10' - 0"	16ga
P8R	6	12"	4"	10' - 0"	16ga
P9	29	16"	4"	10' - 0"	16ga
P16	4	16"	4"	10' - 3"	16ga
P22	4	16"	4"	10' - 6"	16ga
P26	2	16"	4"	10' - 9"	16ga

Post Schedule					
Mark	Qty	Width	Depth	Length	Gauge
C11	13	4"	2"	9' - 10 1/2"	16ga
C13	38	4"	2"	10' - 0"	16ga
C15	54	4"	2"	10' - 1 1/2"	16ga
C17	37	4"	2"	10' - 3"	16ga
C19	42	4"	2"	10' - 4 1/2"	16ga
C21	37	4"	2"	10' - 6"	16ga
C22	19	4"	2"	10' - 7 1/2"	16ga
C32	8	6"	2 1/2"	10' - 0"	16ga

Framing Notes

Interior Framing: 4" x 2" x 16ga Posts On A 5'-0" x 10'-0" Grid Framing System. (U.N.O.)

Exterior Wall Framing: 4" x 2" x 16ga Posts @ 5'-0" o.c. In 14ga Top & 16ga Bottom Track.

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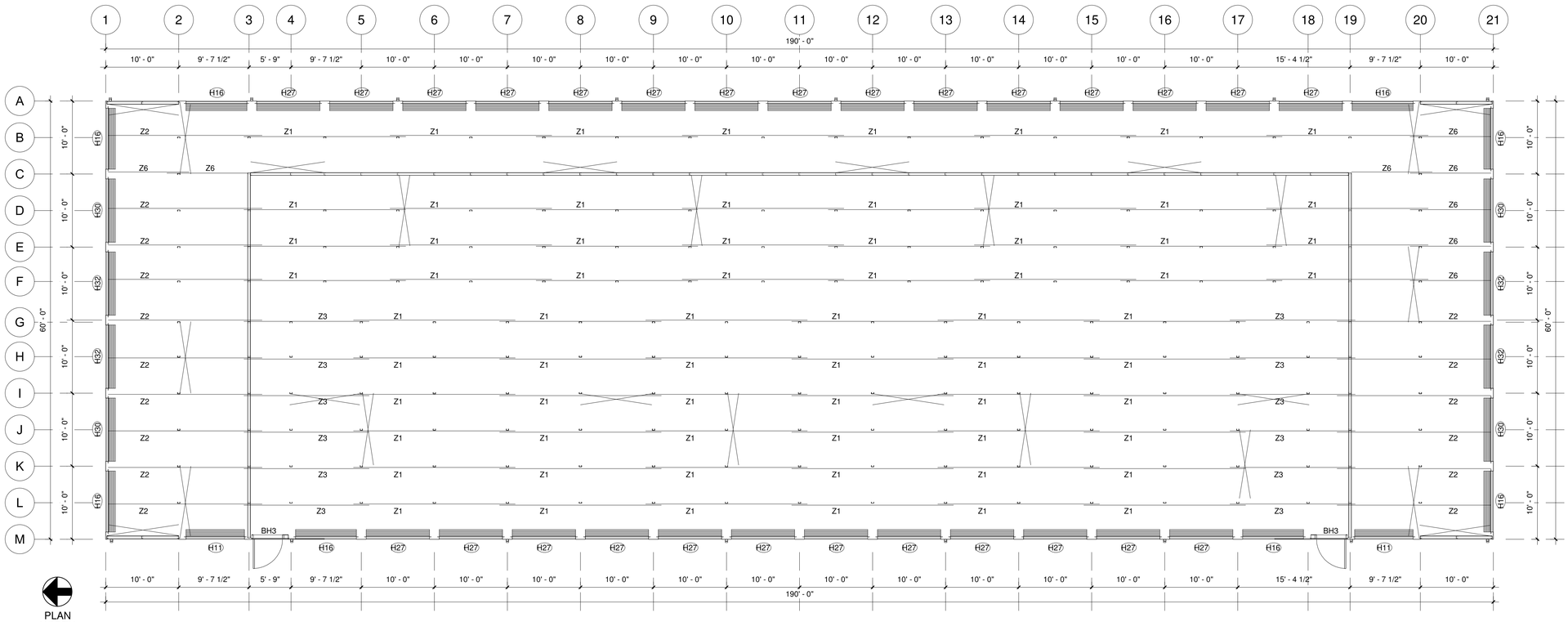
Checked By	SBD
Engineered By	

S210

Building 'B' Post Plan



1 Building 'B' (Framing Plan)
1/8" = 1'-0"

16ga Pre-Finished Header Schedule					
Mark	Qty	Width	Depth	Length	Gauge
H11	2	2' - 0"	3 1/2"	8' - 0"	16ga
H16	8	2' - 0"	3 1/2"	8' - 4"	16ga
H27	27	2' - 0"	3 1/2"	8' - 8"	16ga
H30	4	2' - 3"	3 1/2"	8' - 8"	16ga
H32	4	2' - 6"	3 1/2"	8' - 8"	16ga

Purlin Schedule					
Mark	Qty	Width	Depth	Length	Gauge
Z1	68	6"	2 1/2"	22' - 2"	16ga
Z2	16	6"	2 1/2"	21' - 1"	16ga
Z3	12	6"	2 1/2"	17' - 2"	16ga
Z6	8	6"	2 1/2"	11' - 1"	16ga

Header Schedule					
Mark	Qty	Width	Depth	Length	Gauge
BH3	2	8"	6"	4' - 0"	14ga

Framing Notes

Interior Framing: See Post Plans. Zee Purlins Every 5'-0" o.c. (U.N.O.)

Exterior Wall Framing: See Post Plans.

Exclusions: Brick Veneer/EIFS

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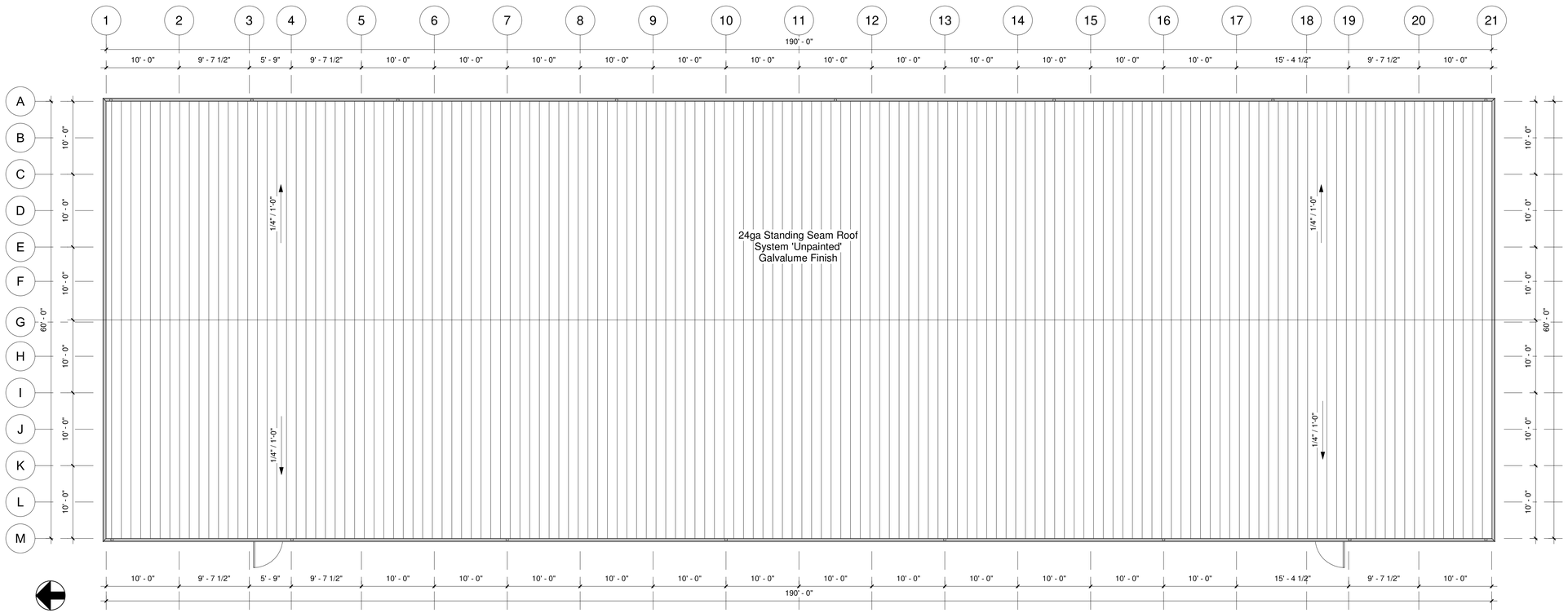
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

S211

Building 'B' Framing Plan



1 Building 'B' (Roofing Plan)
1/8" = 1'-0"

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STORAGE STRUCTURES

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www.storagestructuresinc.com

Rev. #	Revision Date	Revision Description

Dan Lynch

Lady's Island Storage

18 Sams Pointe Rd
Beaufort, SC 29907

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER
No. 11352
ROGER S. LINGERFELT
3/5/2021

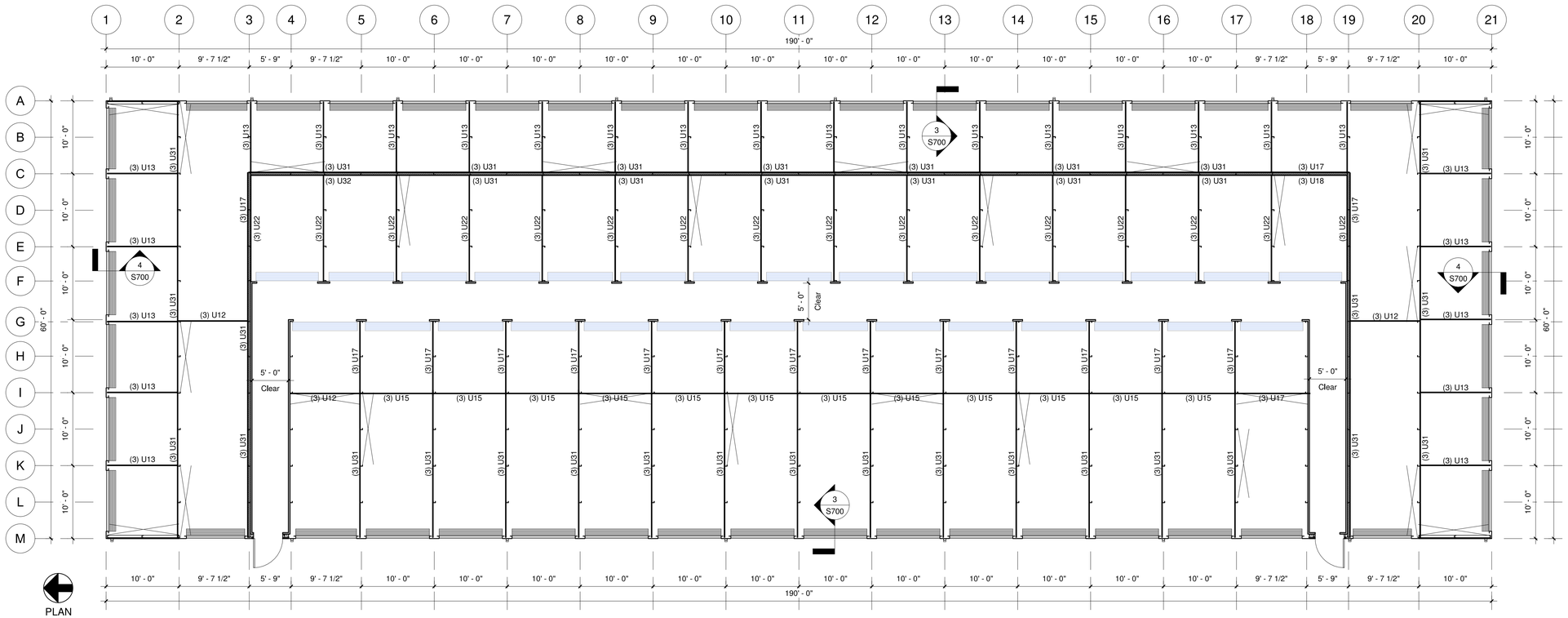
Roger S. Lingerfelt, P.E.
3360 Stock Road
Monroe, GA 30656
770-207-7997
rogerlingerfelt@gmail.com
South Carolina P.E. Number 11352

APPLICATION OF SEAL IS FOR METAL BUILDING ONLY AND DOES NOT REPRESENT THE PROFESSIONAL OF RECORD.

SSI Project Number	1008
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

S212

Building 'B' Roofing Plan



1 Building 'B' (Partition Plan)
1/8" = 1'-0"

Wall Schedule					
Mark	Qty	Width	Depth	Length	Gauge
U12	9	3' - 0"	3/4"	9' - 6"	29ga
U13	78	3' - 0"	3/4"	9' - 7"	29ga
U15	36	3' - 0"	3/4"	9' - 10"	29ga
U17	51	3' - 0"	3/4"	10' - 2"	29ga
U18	3	3' - 0"	3/4"	10' - 6"	29ga
U22	48	3' - 0"	3/4"	14' - 6"	29ga
U31	108	3' - 0"	3/4"	20' - 2"	29ga
U32	3	3' - 0"	3/4"	20' - 6"	29ga

Partition Notes

Partition Walls: 29ga 'Unpainted' Galvalume Partition Panels. Panel Height To Be Coordinated With Onsite Superintendent.

Insulated Walls: 29ga 'Unpainted' Galvalume Partition Panels With Liner Panel Installed Up To The Underside of Roof.

Insulation:
Exterior Walls: R-19 Vinyl-Reinforced Insulation For Exterior Metal Panel Walls Only.
Insulation For Brick Veneer/EIFS Walls By Others.
Interior Walls: R-13 Vinyl-Reinforced Insulation Sandwiched Betweel Metal Panels.
Roof: R-30 Vinyl-Reinforced Insulation with Thermal Blocks

Exclusions: Roll-Up Doors, Hallway/Corridor Partitions & Interior Buildouts

X = X-Bracing

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Rev. #	Revision Date	Revision Description
1	2-25-2021	Owner Unit Mix Revision

Dan Lynch

Lady's Island Storage

18 Sams Pointe Rd
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No. 11352
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3/5/2021

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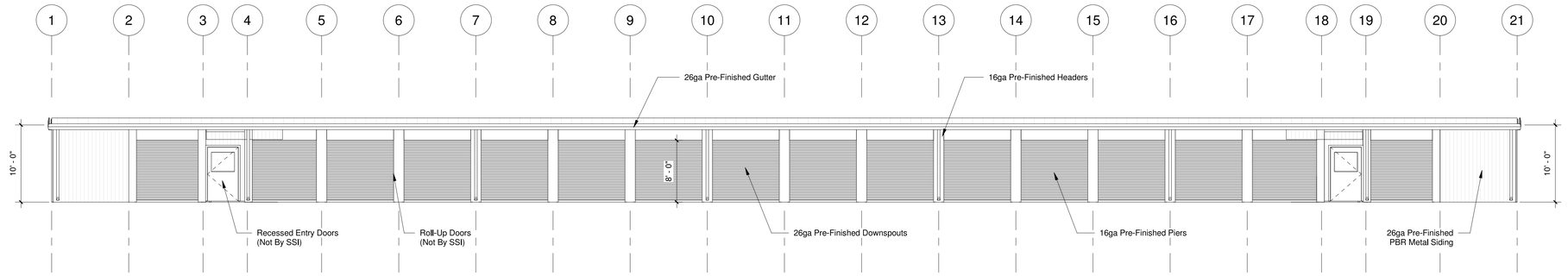
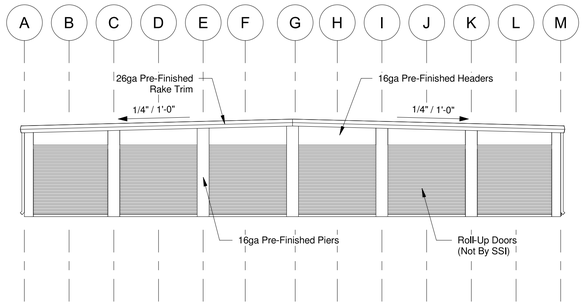
SSI Project Number	1008
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

S213

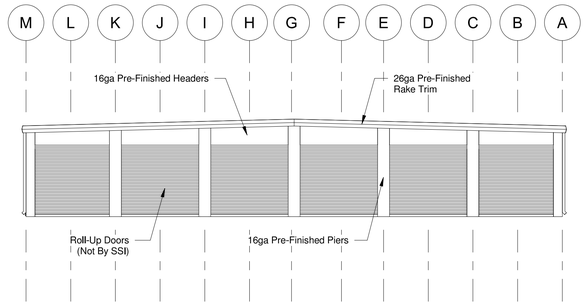
Building 'B' Partition Plan



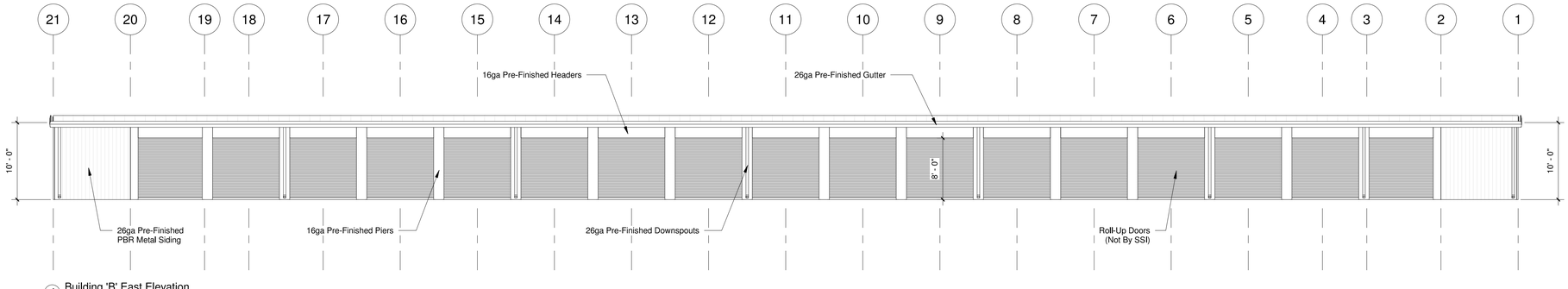
1 Building 'B' West Elevation
1/8" = 1'-0"



2 Building 'B' North Elevation
1/8" = 1'-0"



3 Building 'B' South Elevation
1/8" = 1'-0"



4 Building 'B' East Elevation
1/8" = 1'-0"

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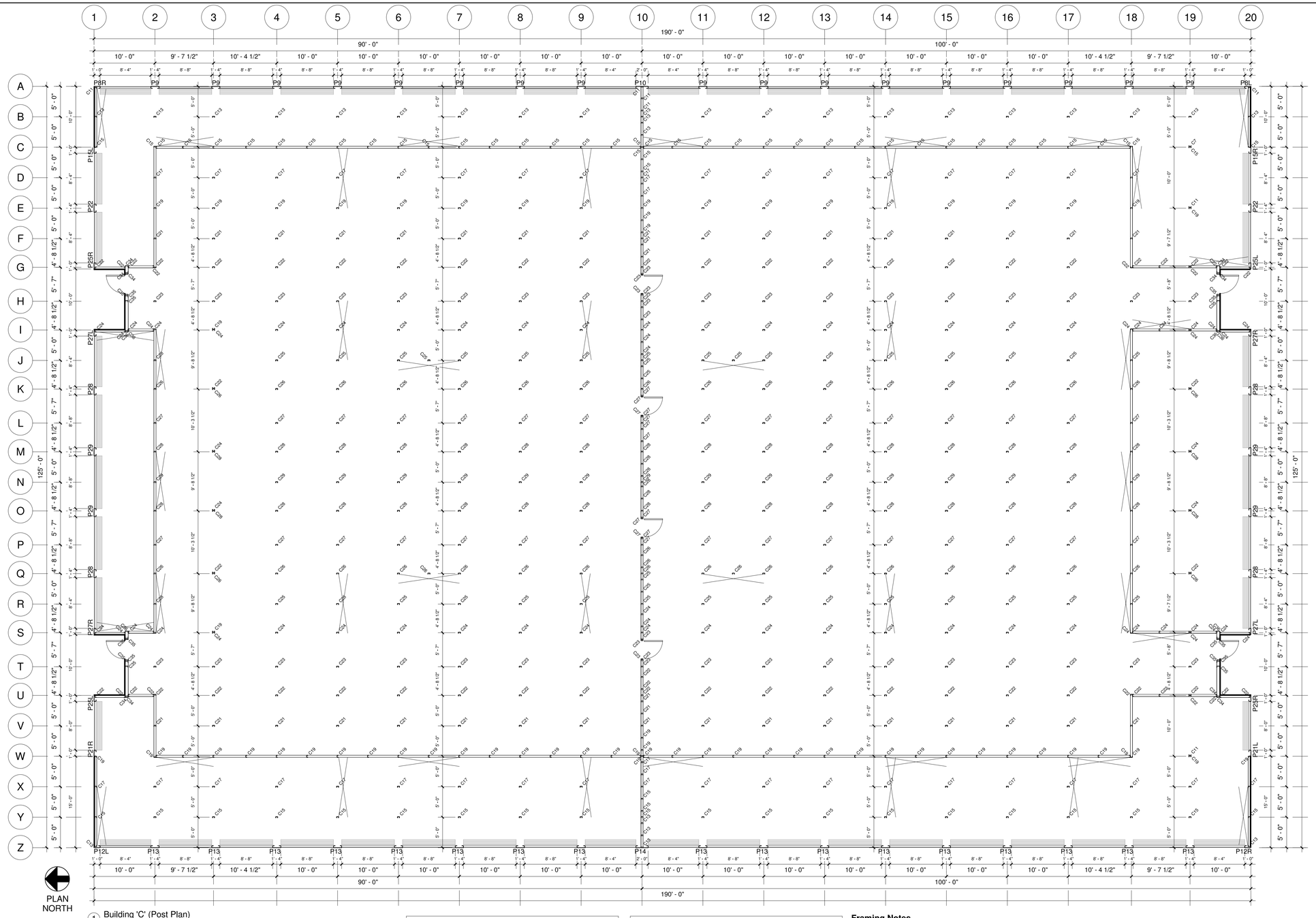
SSI Project Number	1008
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

S214

Building 'B' Elevations



PLAN NORTH

1 Building 'C' (Post Plan)
1/8" = 1'-0"

16ga Pre-Finished Pier Schedule					
Mark	Qty	Width	Depth	Length	Gauge
P8L	1	12"	4"	10' - 0"	16ga
P8R	1	12"	4"	10' - 0"	16ga
P9	17	16"	4"	10' - 0"	16ga
P10	1	24"	4"	10' - 0"	16ga
P12L	1	12"	4"	10' - 1 1/2"	16ga
P12R	1	12"	4"	10' - 1 1/2"	16ga
P13	17	16"	4"	10' - 1 1/2"	16ga
P14	1	24"	4"	10' - 1 1/2"	16ga
P15L	1	12"	4"	10' - 3"	16ga
P15R	1	12"	4"	10' - 3"	16ga

16ga Pre-Finished Pier Schedule					
Mark	Qty	Width	Depth	Length	Gauge
P21L	1	12"	4"	10' - 6"	16ga
P21R	1	12"	4"	10' - 6"	16ga
P22	2	16"	4"	10' - 6"	16ga
P25L	2	12"	4"	10' - 9"	16ga
P25R	2	12"	4"	10' - 9"	16ga
P27L	2	12"	4"	11' - 0"	16ga
P27R	2	12"	4"	11' - 0"	16ga
P28	4	16"	4"	11' - 3"	16ga
P29	4	16"	4"	11' - 6"	16ga

Post Schedule					
Mark	Qty	Width	Depth	Length	Gauge
C7	1	4"	2"	9' - 7 1/2"	16ga
C11	7	4"	2"	9' - 10 1/2"	16ga
C13	27	4"	2"	10' - 0"	16ga
C15	64	4"	2"	10' - 1 1/2"	16ga
C17	41	4"	2"	10' - 3"	16ga
C19	64	4"	2"	10' - 4 1/2"	16ga
C21	38	4"	2"	10' - 6"	16ga
C22	62	4"	2"	10' - 7 1/2"	16ga
C23	46	4"	2"	10' - 9"	16ga
C24	64	4"	2"	10' - 10 1/2"	16ga
C25	38	4"	2"	11' - 0"	16ga

Post Schedule					
Mark	Qty	Width	Depth	Length	Gauge
C26	40	4"	2"	11' - 1 1/2"	16ga
C27	42	4"	2"	11' - 3"	16ga
C28	40	4"	2"	11' - 4 1/2"	16ga
C29	16	4"	2"	11' - 6"	16ga
C34	10	6"	2 1/2"	10' - 7 1/2"	16ga
C35	16	6"	2 1/2"	10' - 9"	16ga
C36	6	6"	2 1/2"	10' - 10 1/2"	16ga

Framing Notes

Interior Framing: 4" x 2" x 16ga Posts On A 5'-0" x 10'-0" Grid Framing System. (U.N.O.)

Exterior Wall Framing: 4" x 2" x 16ga Posts @ 5'-0" o.c. In 14ga Top & 16ga Bottom Track.

Exterior Floor Track - Punch Holes in Floor Track To Match Post Spacing For Wedge Anchors. Place Wedge Anchor 6" From Each End of Track.

X = X-Bracing

Exterior Dimensions Are Taken From The Outside Face Of Framing. Double Posts Are Dimensioned To Center of Main Post Only. All Other Dimensions Are Center To Center of Posts.
Hallways Should Have A Clear Dimension Of 5'-5" Between Post (U.N.O.).
Shaded Areas Indicate Hallways.

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Rev. #	Revision Date	Revision Description

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Lady's Island Storage

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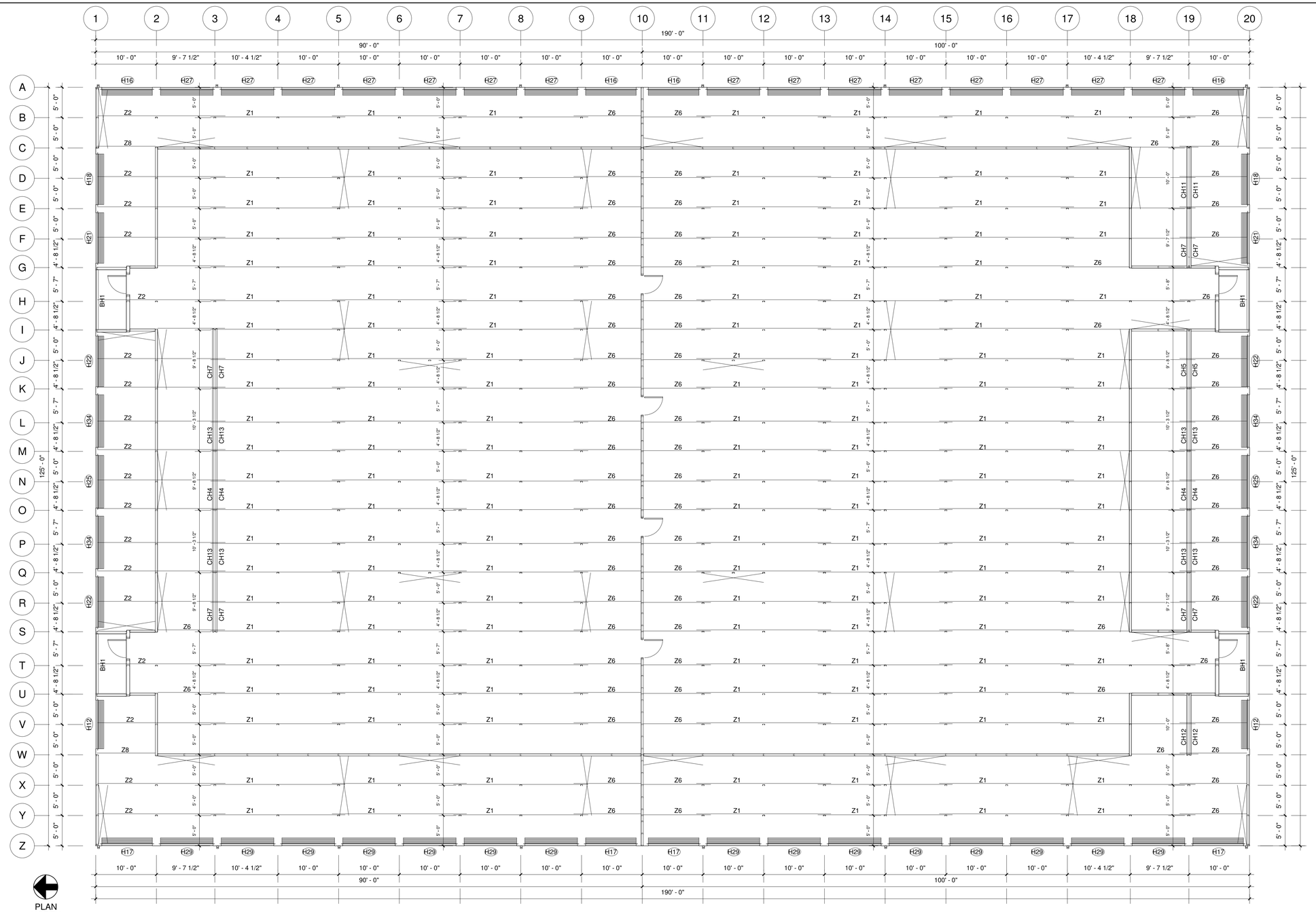
South Carolina P.E. Number 11352

APPLICATION OF SEAL IS FOR METAL BUILDING ONLY AND DOES NOT REPRESENT THE PROFESSIONAL OF RECORD.

SSI Project Number	1008
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

S220

Building 'C' Post Plan



PLAN NORTH

1 Building 'C' (Framing Plan)
1/8" = 1'-0"

Purlin Schedule					
Mark	Qty	Width	Depth	Length	Gauge
Z1	150	6"	2 1/2"	22' - 2"	16ga
Z2	18	6"	2 1/2"	21' - 1"	16ga
Z6	74	6"	2 1/2"	11' - 1"	16ga
Z8	2	6"	2 1/2"	9' - 8"	16ga

Header Schedule					
Mark	Qty	Width	Depth	Length	Gauge
BH1	4	8"	4"	10' - 0"	14ga
CH4	4	6"	2 1/2"	9' - 8 1/2"	14ga
CH5	2	6"	2 1/2"	9' - 9 1/2"	14ga
CH7	8	6"	2 1/2"	9' - 10 1/2"	14ga
CH11	2	6"	2 1/2"	10' - 2"	14ga
CH12	2	6"	2 1/2"	10' - 3"	14ga
CH13	8	6"	2 1/2"	10' - 3 1/2"	14ga

16ga Pre-Finished Header Schedule					
Mark	Qty	Width	Depth	Length	Gauge
H25	4	1' - 9"	3 1/2"	8' - 8"	16ga
H16	4	2' - 0"	3 1/2"	8' - 4"	16ga
H27	15	2' - 0"	3 1/2"	8' - 8"	16ga
H17	4	2' - 1 1/2"	3 1/2"	8' - 4"	16ga
H29	15	2' - 1 1/2"	3 1/2"	8' - 8"	16ga
H18	2	2' - 3"	3 1/2"	8' - 4"	16ga
H12	2	2' - 6"	3 1/2"	8' - 0"	16ga
H21	2	2' - 6"	3 1/2"	8' - 4"	16ga
H22	4	3' - 0"	3 1/2"	8' - 4"	16ga
H34	4	3' - 3"	3 1/2"	8' - 8"	16ga

Framing Notes

Interior Framing: See Post Plans. Zee Purlins Every 5'-0" o.c. (U.N.O.)

Exterior Wall Framing: See Post Plans.

Exclusions: Brick Veneer/EIFS

X = X-Bracing

Exterior Dimensions Are Taken From The Outside Face Of Framing.
Double Posts Are Dimensioned To Center of Main Post Only. All Other Dimensions Are Center To Center of Posts.
Hallways Should Have A Clear Dimension Of 5'-5" Between Post (U.N.O.).
Shaded Areas Indicate Hallways.

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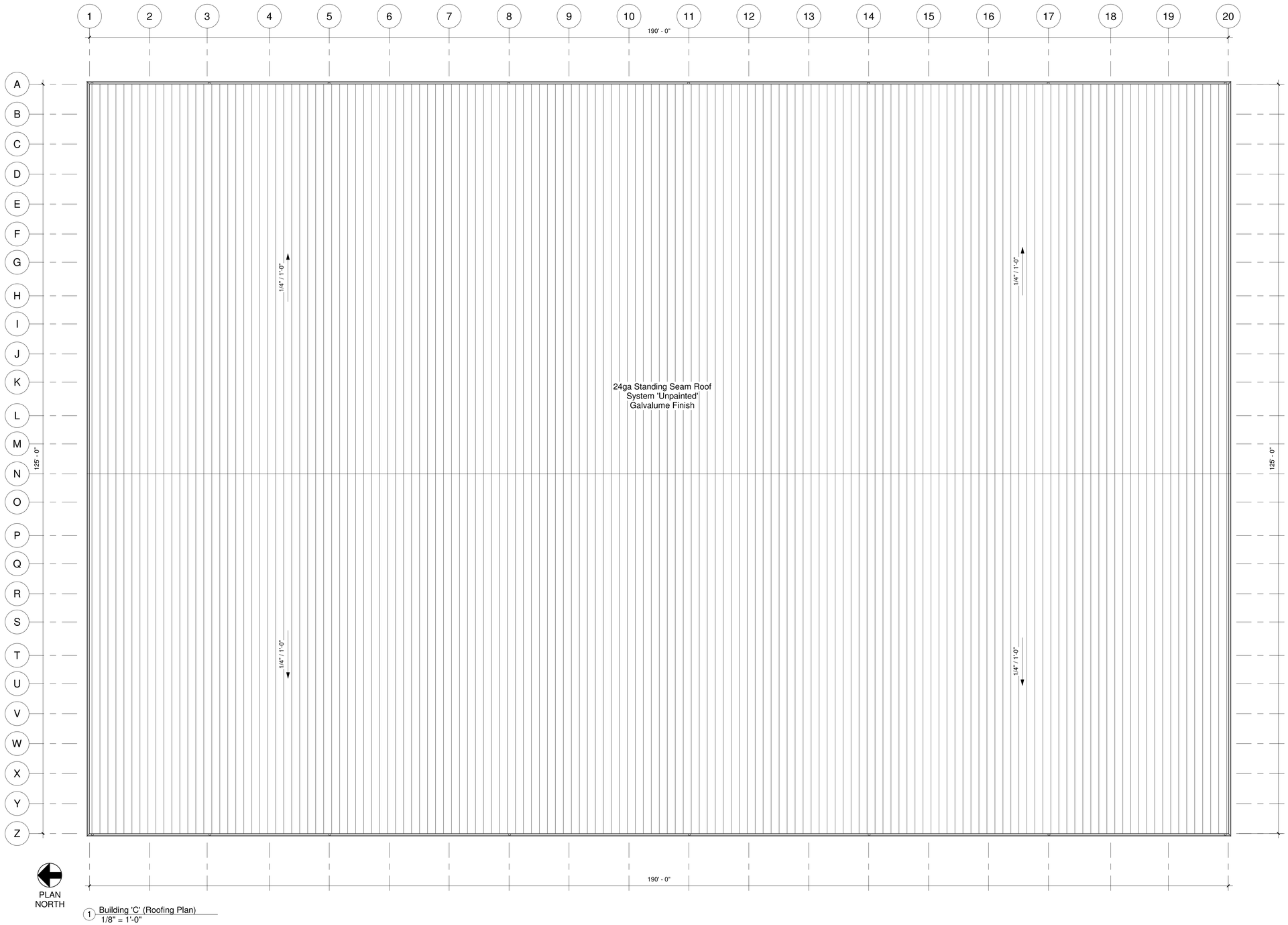
Drawn By	JLW
Checked By	SBD
Engineered By	

S221

Building 'C' Framing Plan



1 Building 'C' (Roofing Plan)
1/8" = 1'-0"

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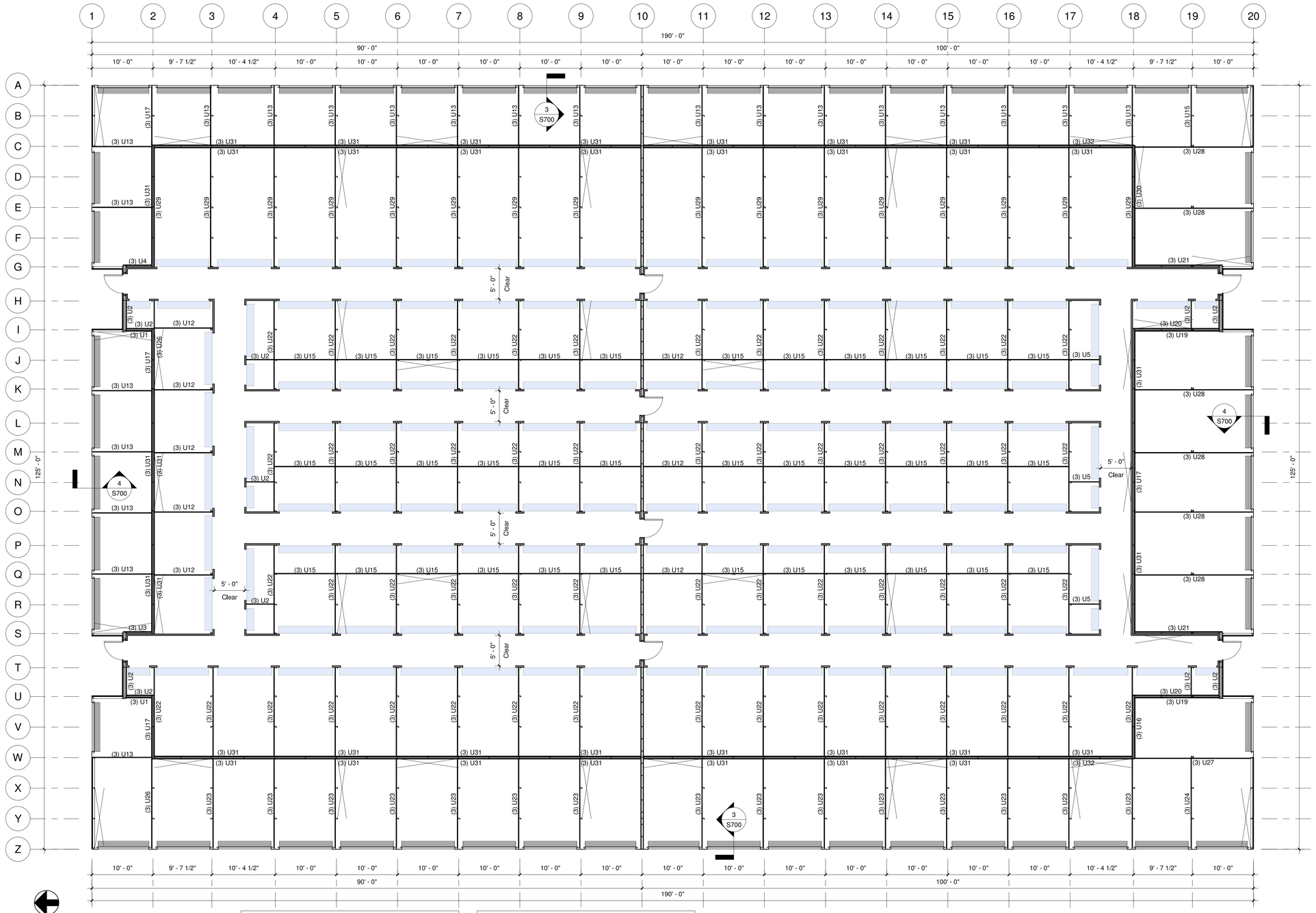
S222

Building 'C' Roofing Plan



PLAN NORTH

1 Building 'C' (Partition Plan)
1/8" = 1'-0"

Wall Schedule					
Mark	Qty	Width	Depth	Length	Gauge
U1	6	3' - 0"	3/4"	4' - 2"	29ga
U2	33	3' - 0"	3/4"	4' - 6"	29ga
U3	3	3' - 0"	3/4"	4' - 7"	29ga
U4	3	3' - 0"	3/4"	4' - 8"	29ga
U5	9	3' - 0"	3/4"	4' - 10"	29ga
U12	24	3' - 0"	3/4"	9' - 6"	29ga
U13	66	3' - 0"	3/4"	9' - 7"	29ga
U15	111	3' - 0"	3/4"	9' - 10"	29ga
U16	3	3' - 0"	3/4"	9' - 11"	29ga
U17	12	3' - 0"	3/4"	10' - 2"	29ga
U19	6	3' - 0"	3/4"	13' - 10"	29ga
U20	6	3' - 0"	3/4"	14' - 1"	29ga

Wall Schedule					
Mark	Qty	Width	Depth	Length	Gauge
U21	6	3' - 0"	3/4"	14' - 3"	29ga
U22	165	3' - 0"	3/4"	14' - 6"	29ga
U23	45	3' - 0"	3/4"	14' - 7"	29ga
U24	3	3' - 0"	3/4"	14' - 8"	29ga
U26	6	3' - 0"	3/4"	15' - 2"	29ga
U27	3	3' - 0"	3/4"	18' - 11"	29ga
U28	18	3' - 0"	3/4"	19' - 3"	29ga
U29	48	3' - 0"	3/4"	19' - 6"	29ga
U30	3	3' - 0"	3/4"	19' - 7"	29ga
U31	111	3' - 0"	3/4"	20' - 2"	29ga
U32	6	3' - 0"	3/4"	20' - 6"	29ga

Partition Notes

Partition Walls: 29ga 'Unpainted' Galvalume Partition Panels. Panel Height To Be Coordinated With Onsite Superintendent.

Insulated Walls: 29ga 'Unpainted' Galvalume Partition Panels With Liner Panel Installed Up To The Underside of Roof.

Insulation:
Exterior Walls: R-19 Vinyl-Reinforced Insulation For Exterior Metal Panel Walls Only. Insulation For Brick Veneer/EIFS Walls By Others.
Interior Walls: R-13 Vinyl-Reinforced Insulation Sandwiched Betweel Metal Panels.
Roof: R-30 Vinyl-Reinforced Insulation with Thermal Blocks

Exclusions: Roll-Up Doors, Hallway/Corridor Partitions & Interior Buildouts

X = X-Bracing

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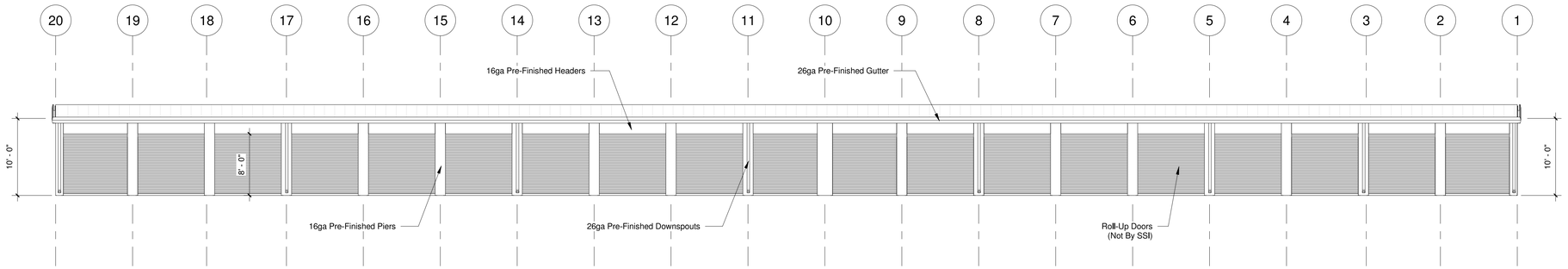
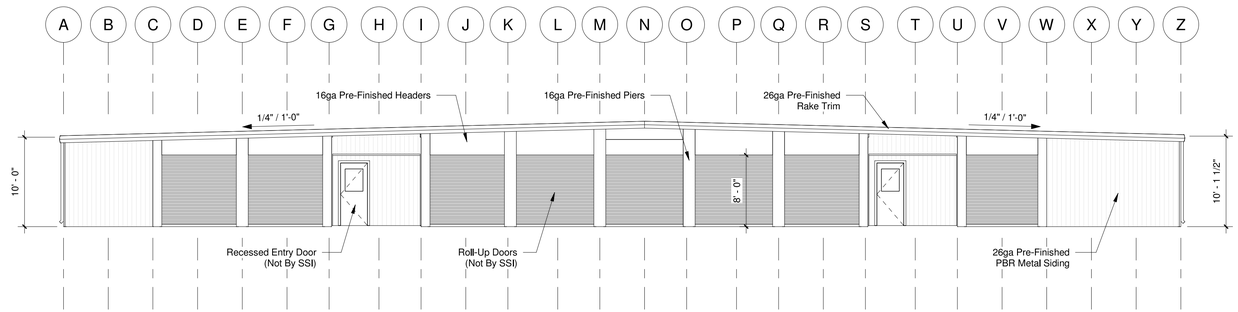
Drawn By	JLW
Checked By	SBD
Engineered By	

S223

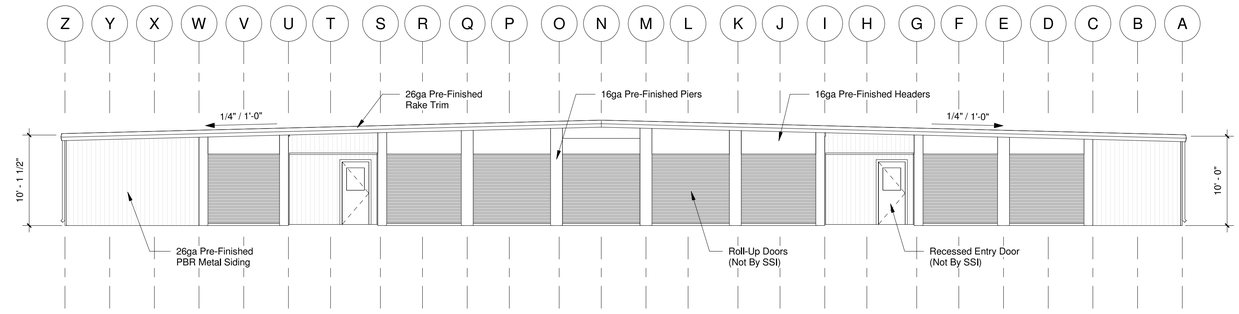
Building 'C' Partition Plan



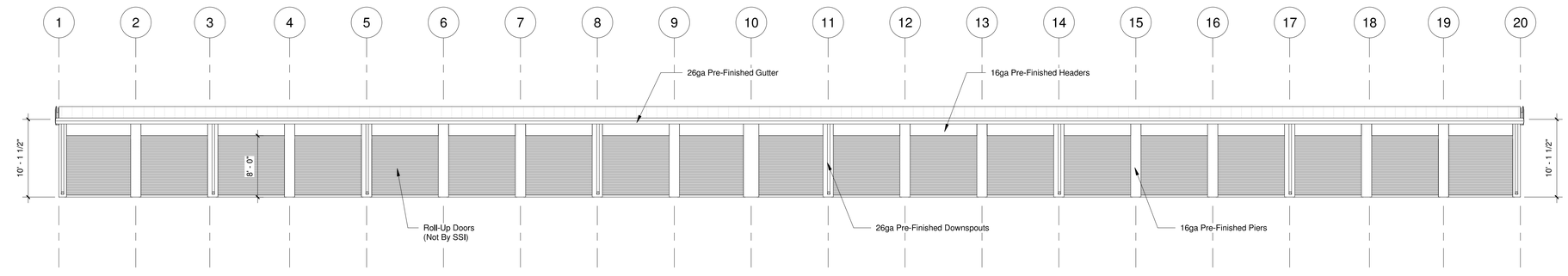
1 Building 'C' East Elevation
1/8" = 1'-0"



2 Building 'C' North Elevation
1/8" = 1'-0"



3 Building 'C' South Elevation
1/8" = 1'-0"



4 Building 'C' West Elevation
1/8" = 1'-0"

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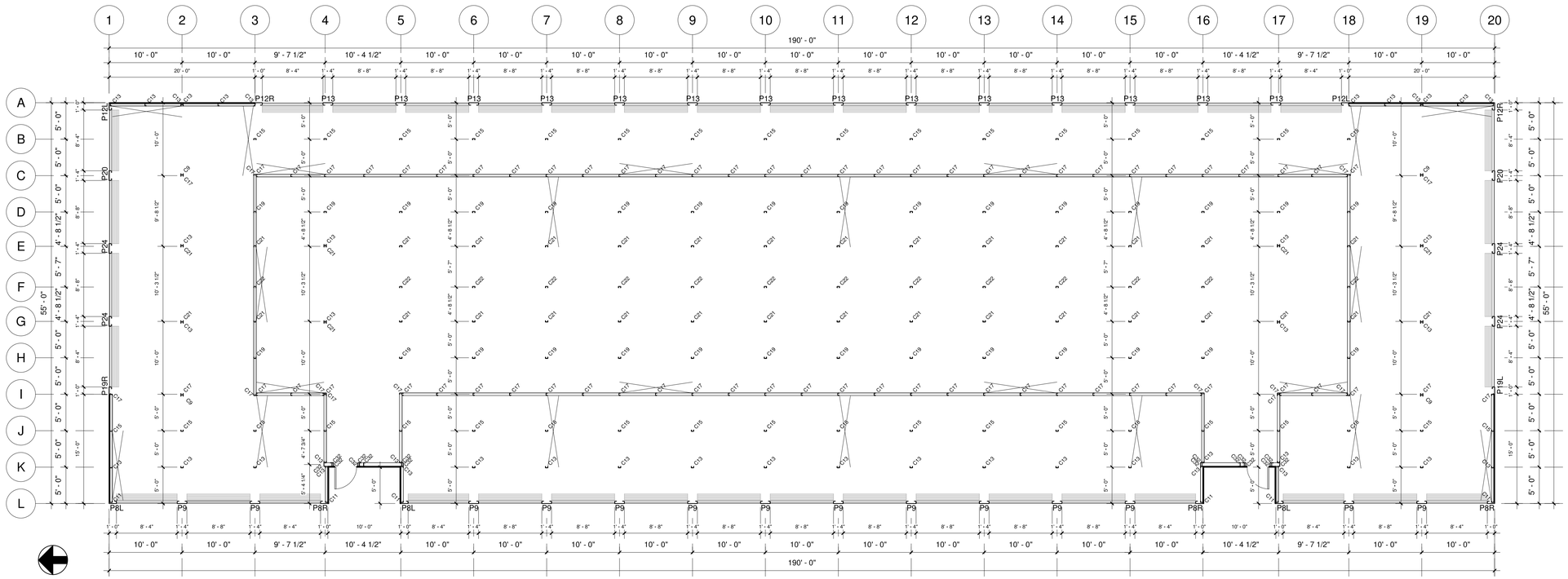
S224

Building 'C' Elevations



1 Building 'D' (Post Plan)
1/8" = 1'-0"

16ga Pre-Finished Pier Schedule					
Mark	Qty	Width	Depth	Length	Gauge
P8L	3	12"	4"	10' - 0"	16ga
P8R	3	12"	4"	10' - 0"	16ga
P9	14	16"	4"	10' - 0"	16ga
P12L	2	12"	4"	10' - 1 1/2"	16ga
P12R	2	12"	4"	10' - 1 1/2"	16ga
P13	14	16"	4"	10' - 1 1/2"	16ga
P19L	1	12"	4"	10' - 4 1/2"	16ga
P19R	1	12"	4"	10' - 4 1/2"	16ga
P20	2	16"	4"	10' - 4 1/2"	16ga
P24	4	16"	4"	10' - 7 1/2"	16ga

Post Schedule					
Mark	Qty	Width	Depth	Length	Gauge
C9	4	4"	2"	9' - 9"	16ga
C11	6	4"	2"	9' - 10 1/2"	16ga
C13	44	4"	2"	10' - 0"	16ga
C15	36	4"	2"	10' - 1 1/2"	16ga
C17	76	4"	2"	10' - 3"	16ga
C19	30	4"	2"	10' - 4 1/2"	16ga
C21	36	4"	2"	10' - 6"	16ga
C22	14	4"	2"	10' - 7 1/2"	16ga
C32	16	6"	2 1/2"	10' - 0"	16ga

Framing Notes

Interior Framing: 4" x 2" x 16ga Posts On A 5'-0" x 10'-0" Grid Framing System. (U.N.O.)

Exterior Wall Framing: 4" x 2" x 16ga Posts @ 5'-0" o.c. In 14ga Top & 16ga Bottom Track.

Exterior Floor Track - Punch Holes in Floor Track To Match Post Spacing For Wedge Anchors. Place Wedge Anchor 6" From Each End of Track.

X = X-Bracing

Exterior Dimensions Are Taken From The Outside Face Of Framing. Double Posts Are Dimensioned To Center of Main Post Only. All Other Dimensions Are Center To Center of Posts.
Hallways Should Have A Clear Dimension Of 5'-5" Between Post (U.N.O.).
Shaded Areas Indicate Hallways.

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www.storagestructuresinc.com

Rev. #	Revision Date	Revision Description

Dan Lynch

Lady's Island Storage

18 Sams Pointe Rd
Beaufort, SC 29907

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
No. 11352
ROGER S. LINGERFELT
3/5/2021

Roger S. Lingerfelt, P.E.
3360 Stock Road
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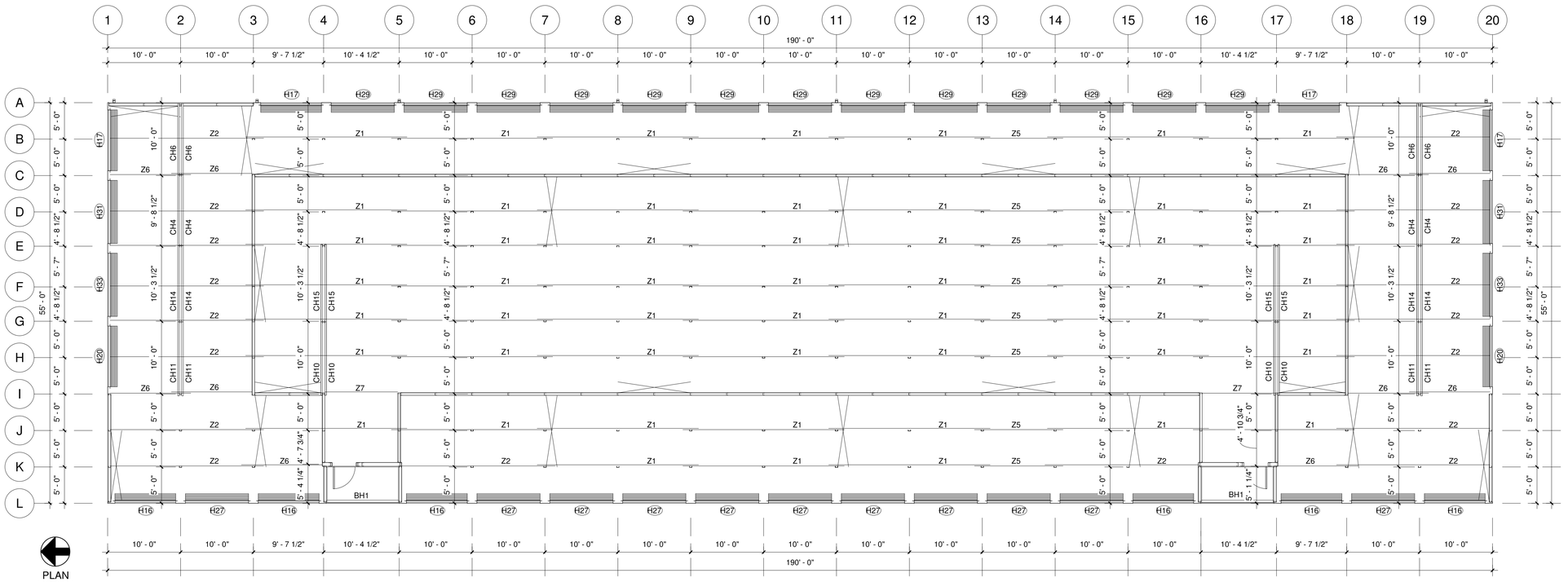
770-207-7997
rogerlingerfelt@gmail.com
South Carolina P.E. Number 11352

APPLICATION OF SEAL IS FOR METAL BUILDING ONLY AND DOES NOT REPRESENT THE PROFESSIONAL OF RECORD.

SSI Project Number	1008
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

S230

Building 'D' Post Plan



PLAN NORTH

1 Building 'D' (Framing Plan)
1/8" = 1'-0"

Purlin Schedule					
Mark	Qty	Width	Depth	Length	Gauge
Z1	52	6"	2 1/2"	22' - 2"	16ga
Z2	18	6"	2 1/2"	21' - 1"	16ga
Z5	8	6"	2 1/2"	12' - 2"	16ga
Z6	10	6"	2 1/2"	11' - 1"	16ga
Z7	2	6"	2 1/2"	10' - 0"	16ga

Header Schedule					
Mark	Qty	Width	Depth	Length	Gauge
BH1	2	8"	4"	10' - 0"	14ga
CH4	4	6"	2 1/2"	9' - 8 1/2"	14ga
CH6	4	6"	2 1/2"	9' - 9 3/4"	14ga
CH10	4	6"	2 1/2"	10' - 1"	14ga
CH11	4	6"	2 1/2"	10' - 2"	14ga
CH14	4	6"	2 1/2"	10' - 5 1/2"	14ga
CH15	4	6"	2 1/2"	10' - 7 1/2"	14ga

16ga Pre-Finished Header Schedule					
Mark	Qty	Width	Depth	Length	Gauge
H16	6	2' - 0"	3 1/2"	8' - 4"	16ga
H27	11	2' - 0"	3 1/2"	8' - 8"	16ga
H17	4	2' - 1 1/2"	3 1/2"	8' - 4"	16ga
H29	13	2' - 1 1/2"	3 1/2"	8' - 8"	16ga
H20	2	2' - 4 1/2"	3 1/2"	8' - 4"	16ga
H31	2	2' - 4 1/2"	3 1/2"	8' - 8"	16ga
H33	2	2' - 7 1/2"	3 1/2"	8' - 8"	16ga

Framing Notes

Interior Framing: See Post Plans. Zee Purlins Every 5'-0" o.c. (U.N.O.)

Exterior Wall Framing: See Post Plans.

Exclusions: Brick Veneer/EIFS

X = X-Bracing

Exterior Dimensions Are Taken From The Outside Face Of Framing.
Double Posts Are Dimensioned To Center of Main Post Only. All Other Dimensions Are Center To Center of Posts.
Hallways Should Have A Clear Dimension Of 5'-5" Between Post (U.N.O.).
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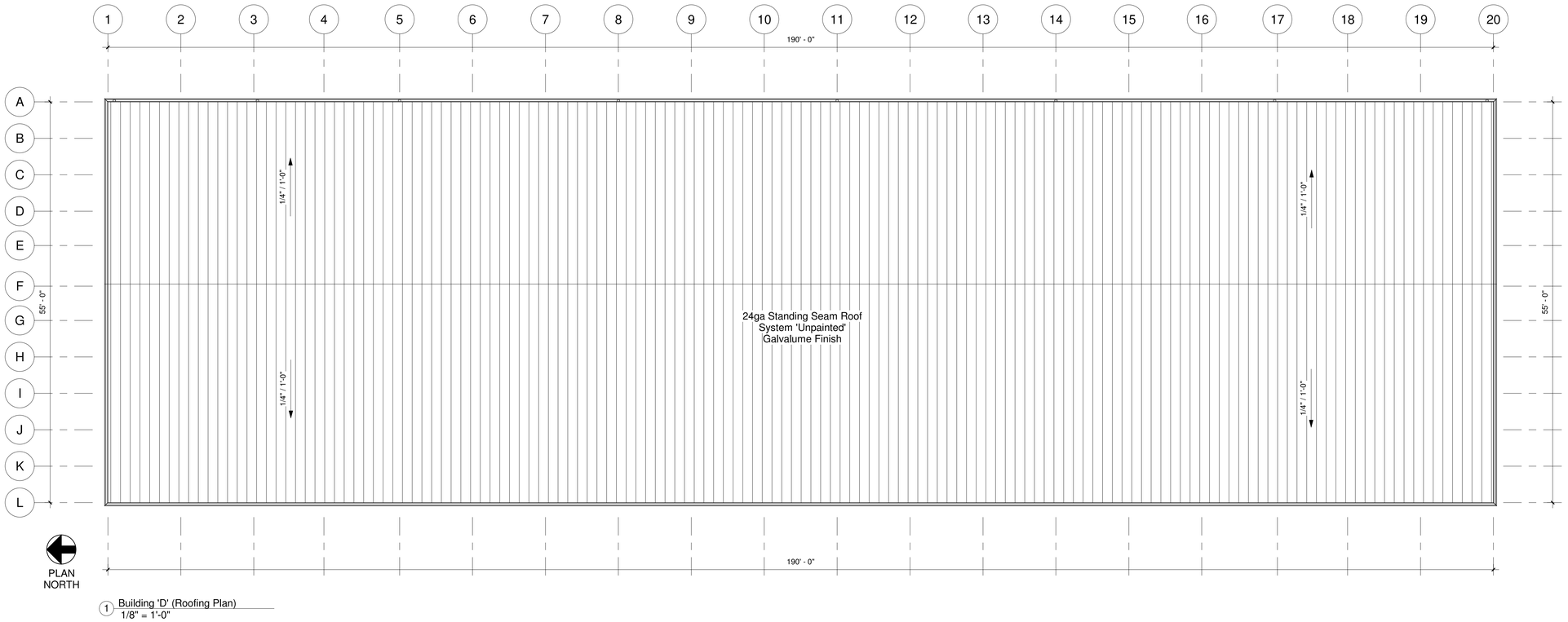
SSI Project Number	1008
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

S231

Building 'D' Framing Plan



1 Building 'D' (Roofing Plan)
1/8" = 1'-0"

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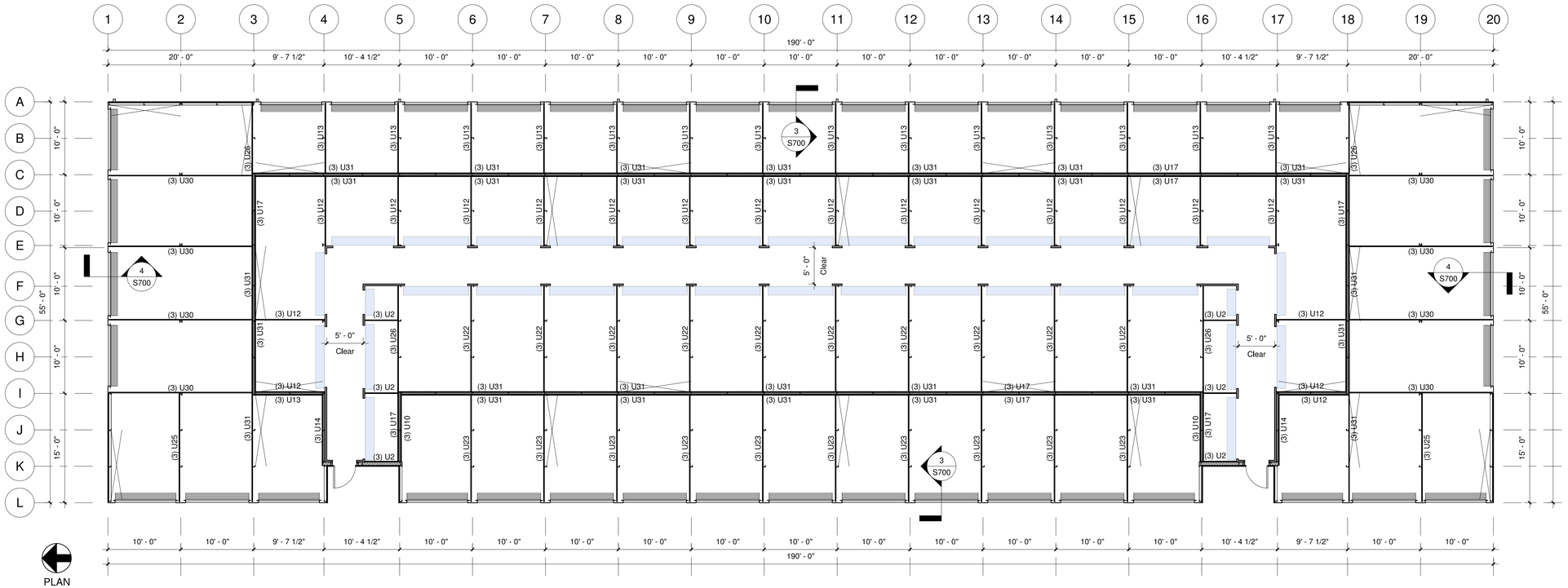
Drawn By	JLW
Checked By	SBD
Engineered By	

S232

Building 'D' Roofing Plan



1 Building 'D' (Partition Plan)
1/8" = 1'-0"

Wall Schedule					
Mark	Qty	Width	Depth	Length	Gauge
U2	18	3' - 0"	3/4"	4' - 6"	29ga
U10	6	3' - 0"	3/4"	9' - 3"	29ga
U12	57	3' - 0"	3/4"	9' - 6"	29ga
U13	45	3' - 0"	3/4"	9' - 7"	29ga
U14	6	3' - 0"	3/4"	9' - 8"	29ga
U17	24	3' - 0"	3/4"	10' - 2"	29ga
U22	30	3' - 0"	3/4"	14' - 6"	29ga
U23	30	3' - 0"	3/4"	14' - 7"	29ga
U25	6	3' - 0"	3/4"	14' - 10"	29ga
U26	12	3' - 0"	3/4"	15' - 2"	29ga
U30	24	3' - 0"	3/4"	19' - 7"	29ga
U31	90	3' - 0"	3/4"	20' - 2"	29ga

Partition Notes

Partition Walls: 29ga 'Unpainted' Galvalume Partition Panels. Panel Height To Be Coordinated With Onsite Superintendent.

Insulated Walls: 29ga 'Unpainted' Galvalume Partition Panels With Liner Panel Installed Up To The Underside of Roof.

Insulation:
Exterior Walls: R-19 Vinyl-Reinforced Insulation For Exterior Metal Panel Walls Only.
Insulation For Brick Veneer/EIFS Walls By Others.
Interior Walls: R-13 Vinyl-Reinforced Insulation Sandwiched Betweel Metal Panels.
Roof: R-30 Vinyl-Reinforced Insulation with Thermal Blocks

Exclusions: Roll-Up Doors, Hallway/Corridor Partitions & Interior Buildouts

X = X-Bracing

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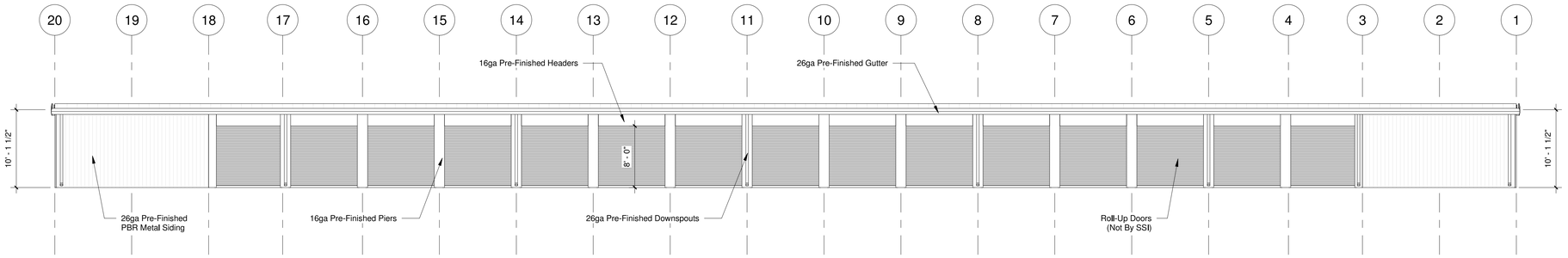
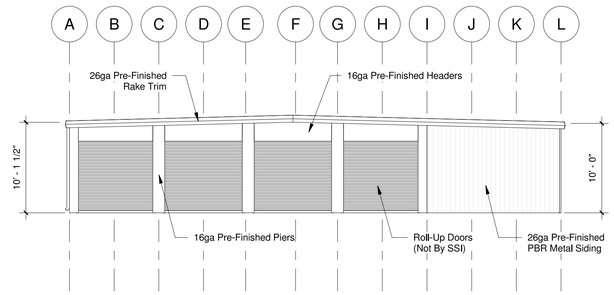
SSI Project Number	1008
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

S233

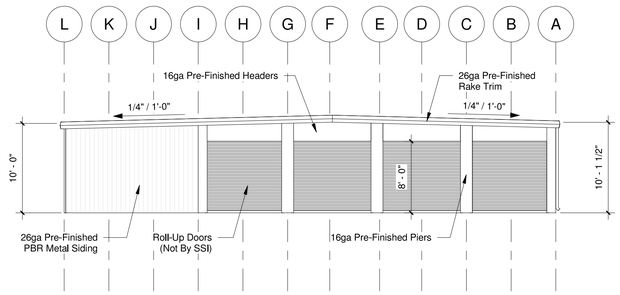
Building 'D' Partition Plan



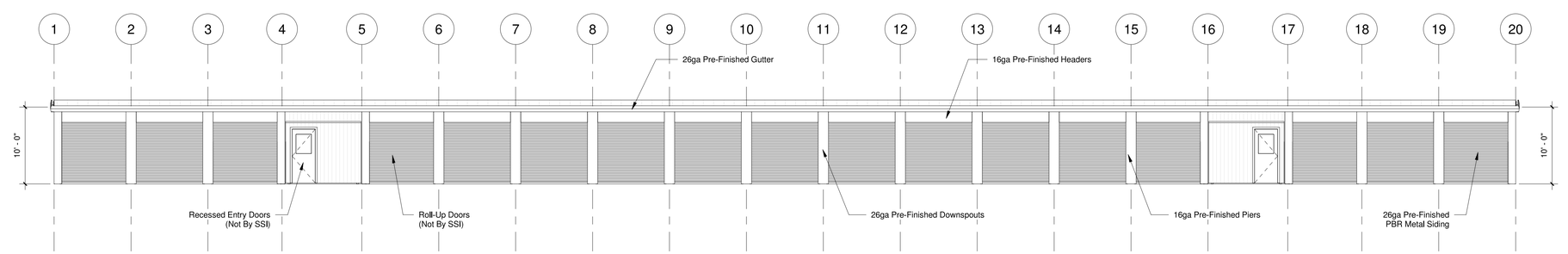
1 Building 'D' East Elevation
1/8" = 1'-0"



2 Building 'D' North Elevation
1/8" = 1'-0"



3 Building 'D' South Elevation
1/8" = 1'-0"



4 Building 'D' West Elevation
1/8" = 1'-0"

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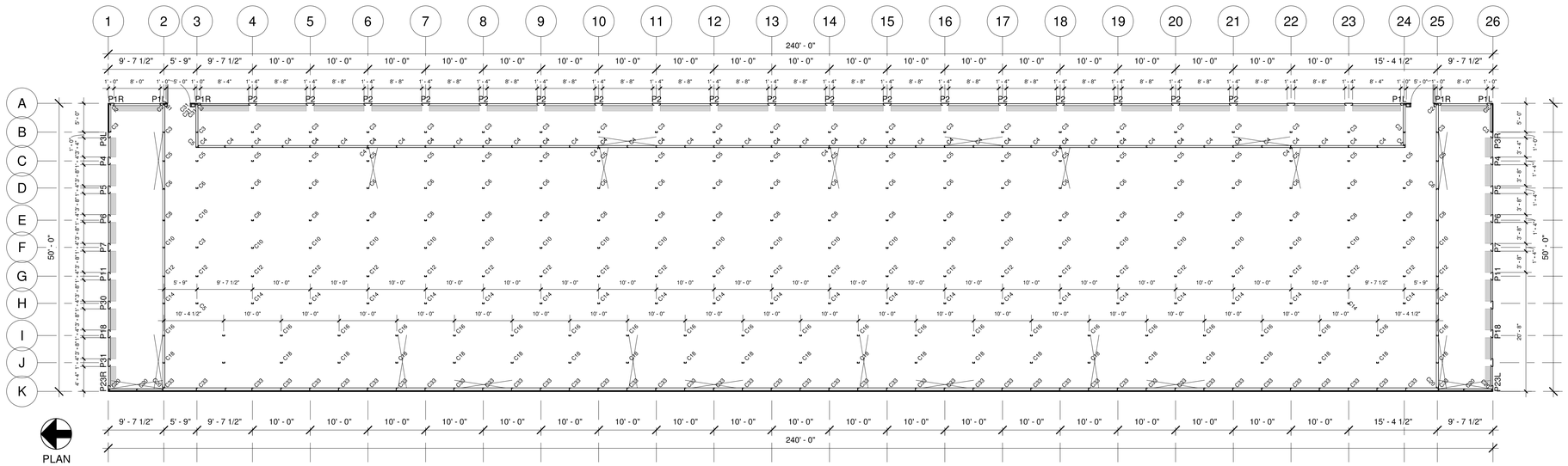
SSI Project Number	1008
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

S234

Building 'D' Elevations



PLAN NORTH

1 Building 'F' (Post Plan)
3/32" = 1'-0"

16ga Pre-Finished Pier Schedule					
Mark	Qty	Width	Depth	Length	Gauge
P1L	3	12"	4"	9' - 4"	16ga
P1R	3	12"	4"	9' - 4"	16ga
P2	20	16"	4"	9' - 4"	16ga
P3L	1	12"	4"	9' - 5 1/2"	16ga
P3R	1	12"	4"	9' - 5 1/2"	16ga
P4	2	16"	4"	9' - 7"	16ga
P5	2	16"	4"	9' - 8 1/2"	16ga
P6	2	16"	4"	9' - 10"	16ga
P7	2	16"	4"	9' - 11 1/2"	16ga
P11	2	16"	4"	10' - 1"	16ga
P18	2	16"	4"	10' - 4"	16ga
P23L	1	12"	4"	10' - 7"	16ga
P23R	1	12"	4"	10' - 7"	16ga
P30	2	16"	4"	10' - 2 1/2"	16ga
P31	2	16"	4"	10' - 5 1/2"	16ga

Post Schedule					
Mark	Qty	Width	Depth	Length	Gauge
C2	5	4"	2"	9' - 2 1/2"	16ga
C3	28	4"	2"	9' - 4"	16ga
C4	67	4"	2"	9' - 4 3/4"	16ga
C5	26	4"	2"	9' - 5 1/2"	16ga
C6	24	4"	2"	9' - 7"	16ga
C8	23	4"	2"	9' - 8 1/2"	16ga
C10	24	4"	2"	9' - 10"	16ga
C12	24	4"	2"	9' - 11 1/2"	16ga
C14	23	4"	2"	10' - 1"	16ga
C16	23	4"	2"	10' - 2 1/2"	16ga
C18	23	4"	2"	10' - 4"	16ga
C20	8	4"	2"	10' - 5 1/2"	16ga
C31	8	6"	2 1/2"	9' - 4"	16ga
C33	45	6"	2 1/2"	10' - 5 1/2"	16ga

Framing Notes

Interior Framing: 4" x 2" x 16ga Posts On A 5'-0" x 10'-0" Grid Framing System. (U.N.O.)

Exterior Wall Framing: 4" x 2" x 16ga Posts @ 5'-0" o.c. In 14ga Top & 16ga Bottom Track.

Exterior Floor Track - Punch Holes in Floor Track To Match Post Spacing For Wedge Anchors. Place Wedge Anchor 6" From Each End of Track.

X = X-Bracing

Exterior Dimensions Are Taken From The Outside Face Of Framing. Double Posts Are Dimensioned To Center of Main Post Only. All Other Dimensions Are Center To Center of Posts.
Hallways Should Have A Clear Dimension Of 5'-5" Between Post (U.N.O.).
Shaded Areas Indicate Hallways.

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Rev. #	Revision Date	Revision Description
1	2-25-2021	Owner Unit Mix Revision

Dan Lynch

Lady's Island Storage

18 Sams Pointe Rd
Beaufort, SC 29907

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 11352 ROGER S. LINGERFELT
3/5/2021

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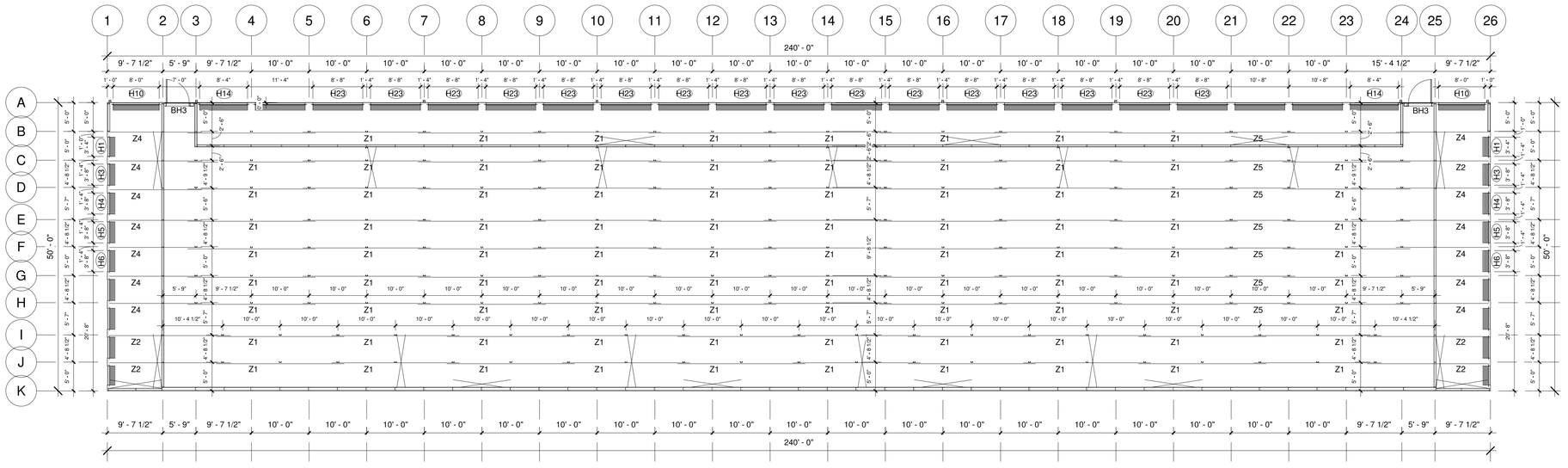
SSI Project Number	1008
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

S240

Building 'F' Post Plan



1 Building 'F' (Framing Plan)
3/32" = 1'-0"

Purlin Schedule					
Mark	Qty	Width	Depth	Length	Gauge
Z1	90	6"	2 1/2"	22' - 2"	16ga
Z2	5	6"	2 1/2"	21' - 1"	16ga
Z4	13	6"	2 1/2"	16' - 1"	16ga
Z5	7	6"	2 1/2"	12' - 2"	16ga

Header Schedule					
Mark	Qty	Width	Depth	Length	Gauge
BH3	2	8"	6"	4' - 0"	14ga

16ga Pre-Finished Header Schedule					
Mark	Qty	Width	Depth	Length	Gauge
H10	2	1' - 4"	3 1/2"	8' - 0"	16ga
H14	2	1' - 4"	3 1/2"	8' - 4"	16ga
H23	19	1' - 4"	3 1/2"	8' - 8"	16ga
H1	2	1' - 5 1/2"	3 1/2"	3' - 4"	16ga
H3	2	1' - 7"	3 1/2"	3' - 8"	16ga
H4	2	1' - 8 1/2"	3 1/2"	3' - 8"	16ga
H5	2	1' - 10"	3 1/2"	3' - 8"	16ga
H6	2	1' - 11 1/2"	3 1/2"	3' - 8"	16ga
H7	2	2' - 1"	3 1/2"	3' - 8"	16ga
H8	2	2' - 2 1/2"	3 1/2"	3' - 8"	16ga
H9	2	2' - 4"	3 1/2"	3' - 8"	16ga
H2	2	2' - 5 1/2"	3 1/2"	3' - 4"	16ga

Framing Notes

Interior Framing: See Post Plans. Zee Purlins Every 5'-0" o.c. (U.N.O.)

Exterior Wall Framing: See Post Plans.

Exclusions: Brick Veneer/EIFS

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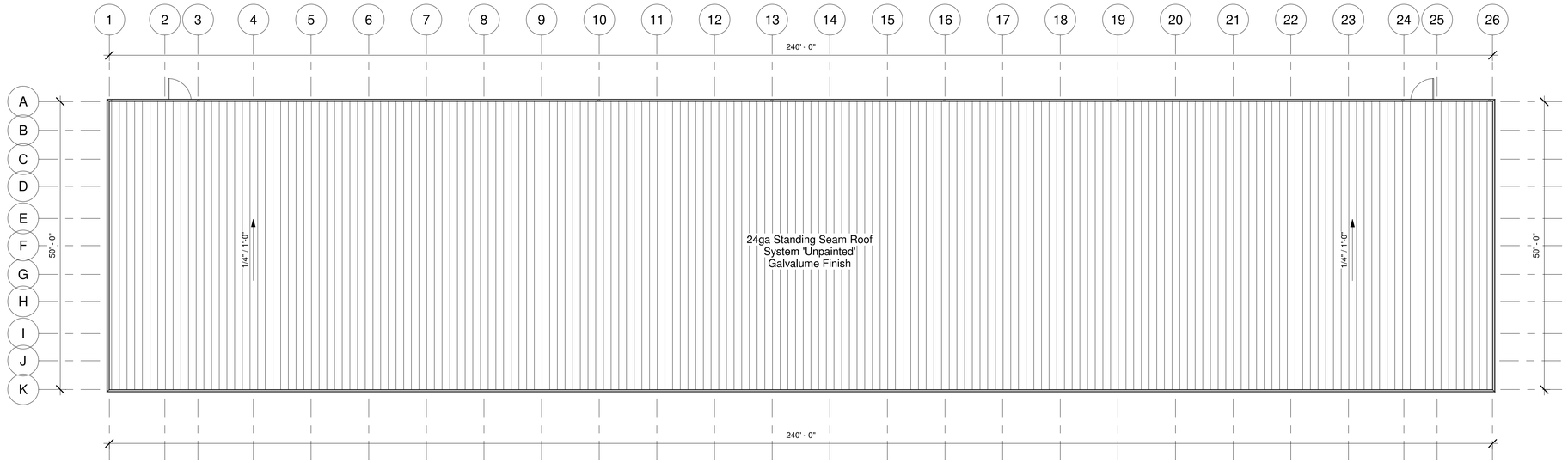
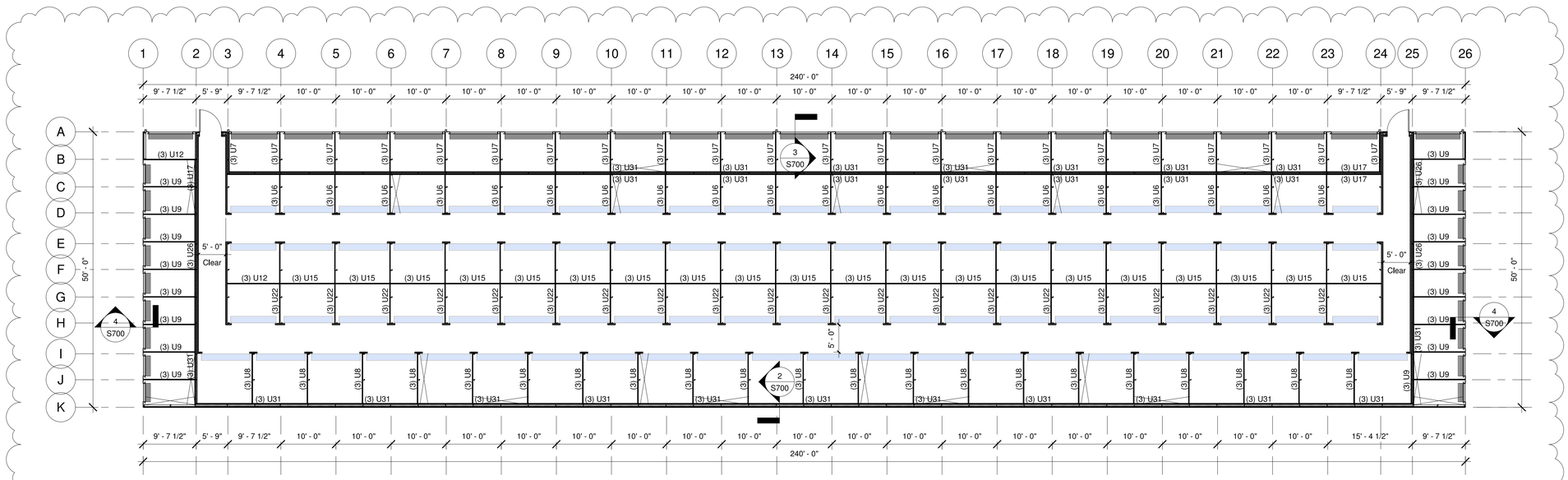
Checked By	SBD
Engineered By	

S241

Building 'F' Framing Plan



1 Building 'F' (Roofing Plan)
3/32" = 1'-0"



2 Building 'F' (Partition Plan)
3/32" = 1'-0"

Wall Schedule					
Mark	Qty	Width	Depth	Length	Gauge
U6	60	3' - 0"	3/4"	7' - 0"	29ga
U7	66	3' - 0"	3/4"	7' - 1"	29ga
U8	63	3' - 0"	3/4"	9' - 1"	29ga
U9	54	3' - 0"	3/4"	9' - 2"	29ga
U12	3	3' - 0"	3/4"	9' - 6"	29ga
U17	9	3' - 0"	3/4"	10' - 2"	29ga
U22	60	3' - 0"	3/4"	14' - 6"	29ga
U26	9	3' - 0"	3/4"	15' - 2"	29ga
U31	81	3' - 0"	3/4"	20' - 2"	29ga

Partition Notes

Partition Walls: 29ga 'Unpainted' Galvalume Partition Panels. Panel Height To Be Coordinated With Onsite Superintendent.

Insulated Walls: 29ga 'Unpainted' Galvalume Partition Panels With Liner Panel Installed Up To The Underside of Roof.

Insulation:
Exterior Walls: R-19 Vinyl-Reinforced Insulation For Exterior Metal Panel Walls Only. Insulation For Brick Veneer/EIFS Walls By Others.
Interior Walls: R-13 Vinyl-Reinforced Insulation Sandwiched Betweel Metal Panels.
Roof: R-30 Vinyl-Reinforced Insulation with Thermal Blocks

Exclusions: Roll-Up Doors, Hallway/Corridor Partitions & Interior Buildouts

X = X-Bracing

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www.storagestructuresinc.com

Rev. #	Revision Date	Revision Description
1	2-25-2021	Owner Unit Mix Revision

Dan Lynch

Lady's Island Storage

18 Sams Pointe Rd
Beaufort, SC 29907

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER
No. 11352
ROGER S. LINGERFELT
3/5/2021

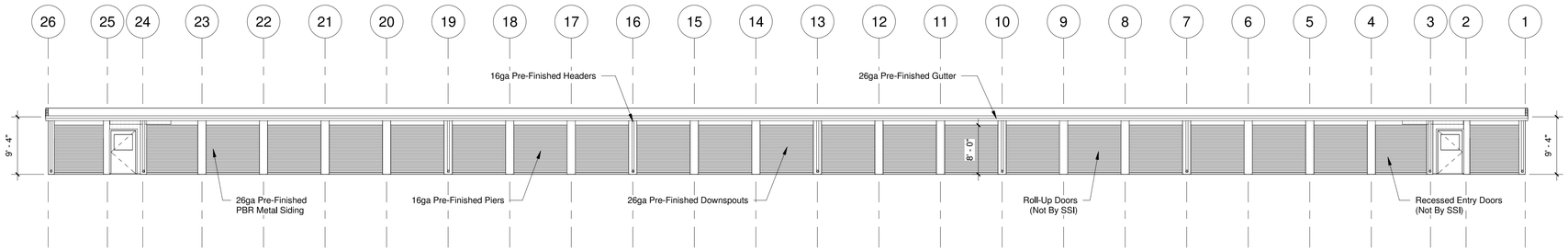
Roger S. Lingerfelt, P.E.
3360 Stock Road
Monroe, GA 30656
770-207-7997
rogerlingerfelt@gmail.com
South Carolina P.E. Number 11352

APPLICATION OF SEAL IS FOR METAL BUILDING ONLY AND DOES NOT REPRESENT THE PROFESSIONAL OF RECORD.

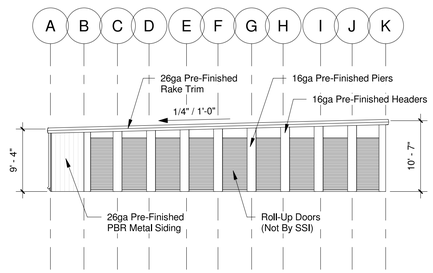
SSI Project Number	1008
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

S242

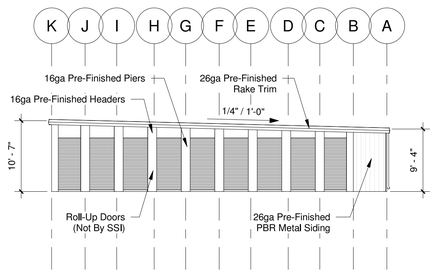
Building 'F' Roofing & Partition Plans



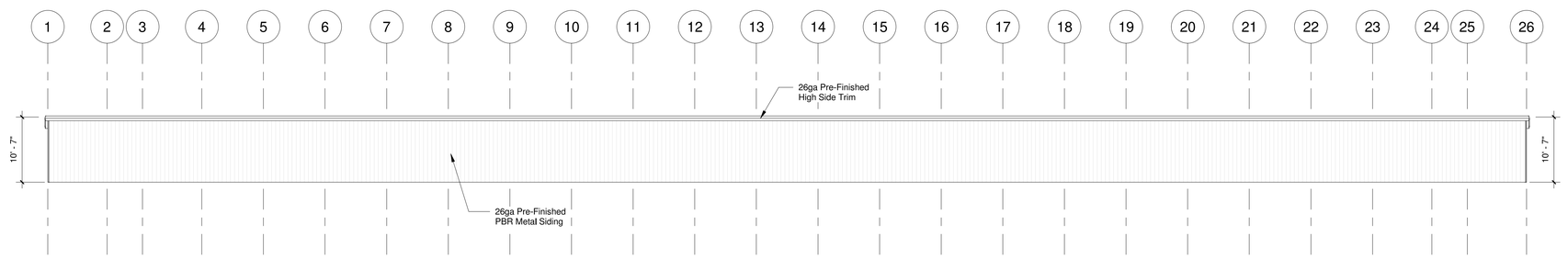
1 Building 'F' East Elevation
3/32" = 1'-0"



2 Building 'F' North Elevation
3/32" = 1'-0"



3 Building 'F' South Elevation
3/32" = 1'-0"



4 Building 'F' West Elevation
3/32" = 1'-0"

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Dan Lynch

Lady's Island Storage

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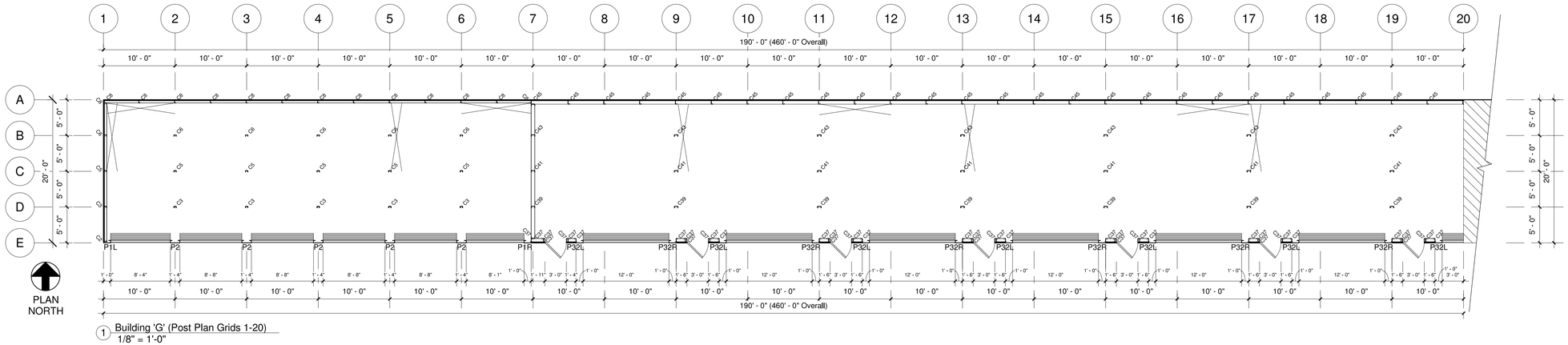
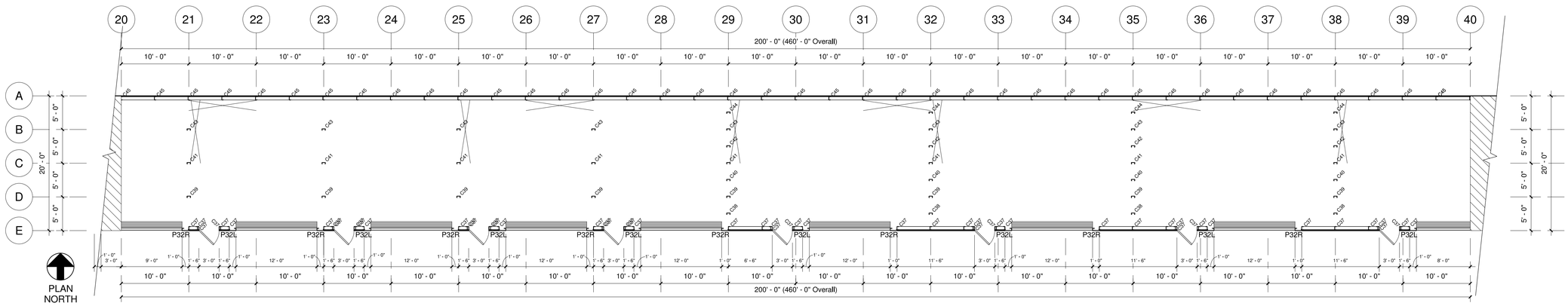
SSI Project Number	1008
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

S243

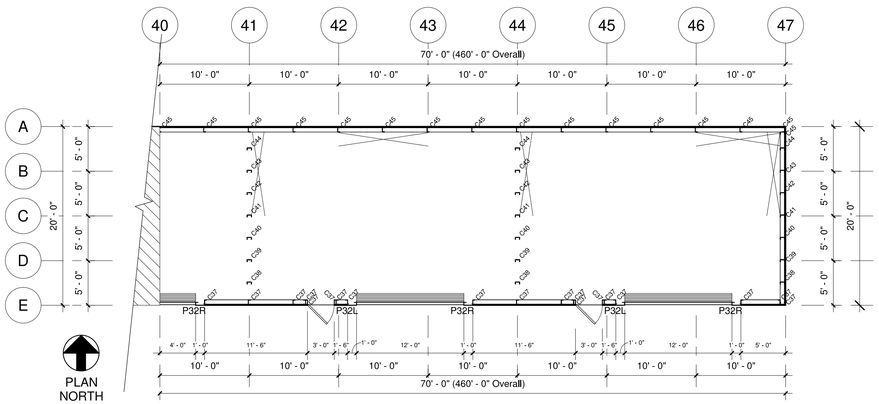
Building 'F' Elevations



1 Building 'G' (Post Plan Grids 1-20)
1/8" = 1'-0"



2 Building 'G' (Post Plan Grids 20-40)
1/8" = 1'-0"



3 Building 'G' (Post Plan Grids 40-47)
1/8" = 1'-0"

Post Schedule					
Mark	Qty	Width	Depth	Length	Gauge
C2	1	4"	2"	9' - 2 1/2"	16ga
C3	6	4"	2"	9' - 4"	16ga
C5	6	4"	2"	9' - 5 1/2"	16ga
C6	6	4"	2"	9' - 7"	16ga
C8	14	4"	2"	9' - 8 1/2"	16ga
C37	117	6"	2 1/2"	13' - 10 1/2"	16ga
C38	7	6"	2 1/2"	13' - 11 1/4"	16ga
C39	18	6"	2 1/2"	14' - 0"	16ga
C40	7	6"	2 1/2"	14' - 0 3/4"	16ga
C41	18	6"	2 1/2"	14' - 1 1/2"	16ga
C42	7	6"	2 1/2"	14' - 2 1/4"	16ga
C43	18	6"	2 1/2"	14' - 3"	16ga
C44	7	6"	2 1/2"	14' - 3 3/4"	16ga
C45	83	6"	2 1/2"	14' - 4 1/2"	16ga

Framing Notes

Interior Framing: 4" x 2" x 16ga Posts On A 5'-0" x 10'-0" Grid Framing System. (U.N.O.)

Exterior Wall Framing: 4" x 2" x 16ga Posts @ 5'-0" o.c. In 14ga Top & 16ga Bottom Track.

Exterior Floor Track - Punch Holes in Floor Track To Match Post Spacing For Wedge Anchors. Place Wedge Anchor 6" From Each End of Track.

X = X-Bracing

Exterior Dimensions Are Taken From The Outside Face Of Framing. Double Posts Are Dimensioned To Center of Main Post Only. All Other Dimensions Are Center To Center of Posts.
Hallways Should Have A Clear Dimension Of 5'-5" Between Post (U.N.O.).
Shaded Areas Indicate Hallways.

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Dan Lynch

Lady's Island Storage

18 Sams Pointe Rd
Beaufort, SC 29907

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No. 11352
ROGER S. LINGERFELT
3/5/2021

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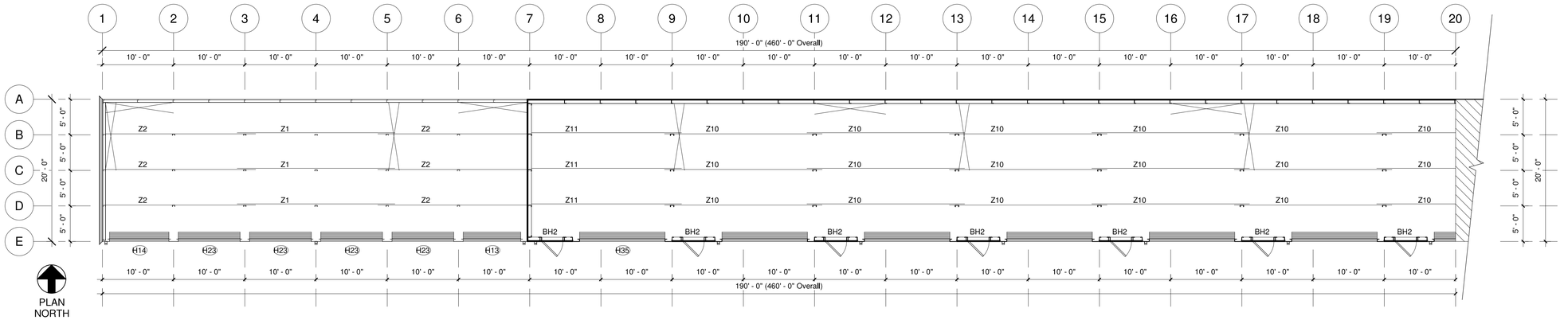
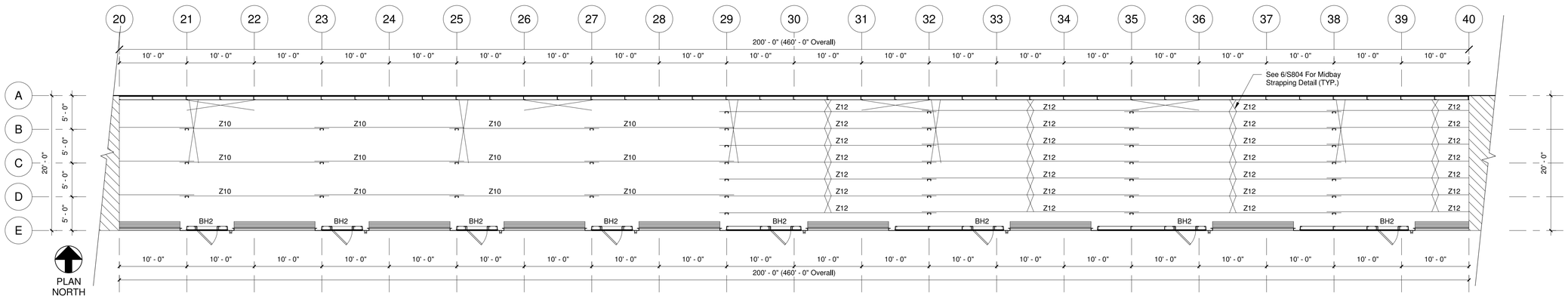
SSI Project Number	1008
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

S250

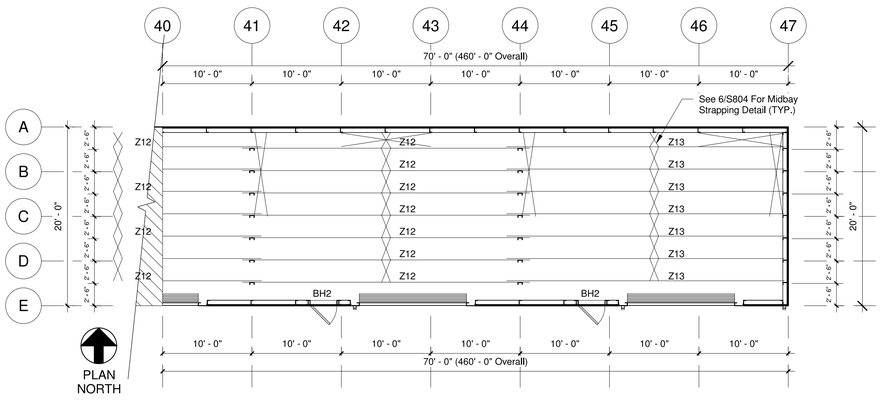
Building 'G' Post Plan



1 Building 'G' (Framing Plan Grids 1-20)
1/8" = 1'-0"



2 Building 'G' (Framing Plan Grids 20-40)
1/8" = 1'-0"



3 Building 'G' (Framing Plan Grids 40-47)
1/8" = 1'-0"

16ga Pre-Finished Header Schedule					
Mark	Qty	Width	Depth	Length	Gauge
H13	1	1' - 4"	3 1/2"	8' - 1"	16ga
H14	1	1' - 4"	3 1/2"	8' - 4"	16ga
H23	4	1' - 4"	3 1/2"	8' - 8"	16ga
H35	17	2' - 0"	3 1/2"	12' - 0"	16ga

Purlin Schedule					
Mark	Qty	Width	Depth	Length	Gauge
Z1	3	6"	2 1/2"	22' - 2"	16ga
Z2	6	6"	2 1/2"	21' - 1"	16ga
Z10	30	10"	2 1/2"	22' - 2"	12ga
Z11	3	10"	2 1/2"	21' - 1"	12ga
Z12	35	1' - 0"	2 1/2"	32' - 2"	12ga
Z13	7	1' - 0"	2 1/2"	31' - 1"	12ga

Header Schedule					
Mark	Qty	Width	Depth	Length	Gauge
BH2	17	8"	6"	3' - 0"	16ga

Framing Notes

Interior Framing: See Post Plans. Zee Purlins Every 5'-0" o.c. & 2'-6" o.c. (U.N.O.)

Exterior Wall Framing: See Post Plans.

Exclusions: Brick Veneer/EIFS

X = X-Bracing

Exterior Dimensions Are Taken From The Outside Face Of Framing.

Double Posts Are Dimensioned To Center of Main Post Only. All Other Dimensions Are Center To Center of Posts.

Hallways Should Have A Clear Dimension Of 5'-5" Between Post (U.N.O.).

Shaded Areas Indicate Hallways.

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Rev. #	Revision Date	Revision Description
1	2-25-2021	Owner Unit Mix Revision

Dan Lynch

Lady's Island Storage

18 Sams Pointe Rd
Beaufort, SC 29907



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3360 Stock Road
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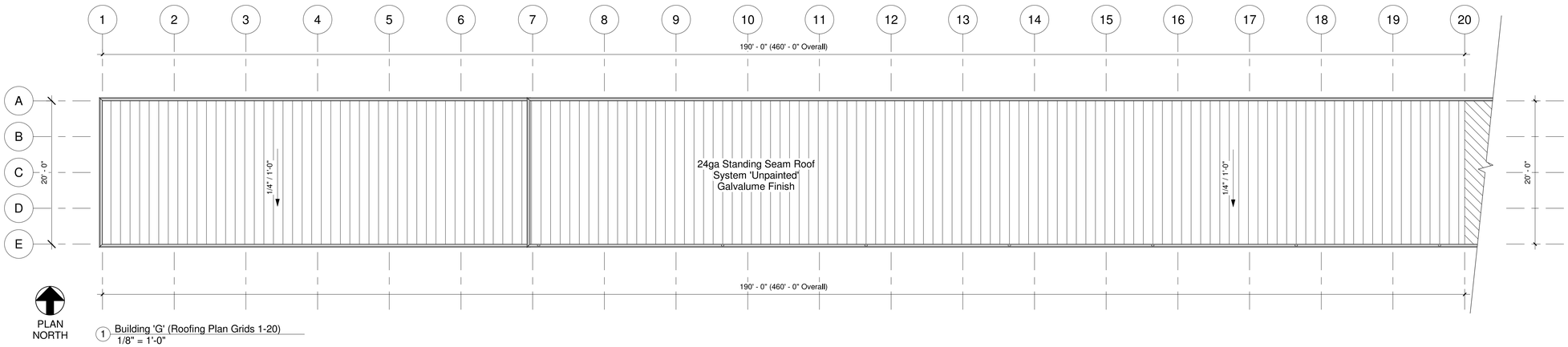
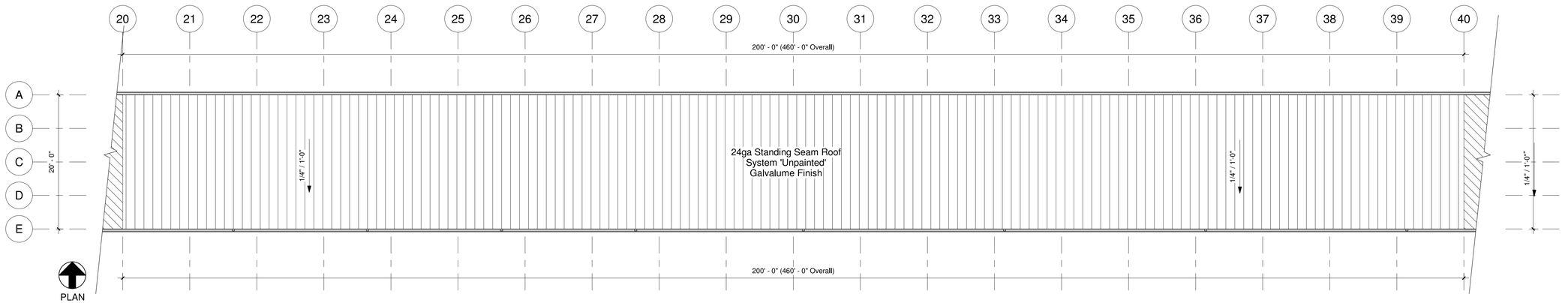
SSI Project Number	1008
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

S251

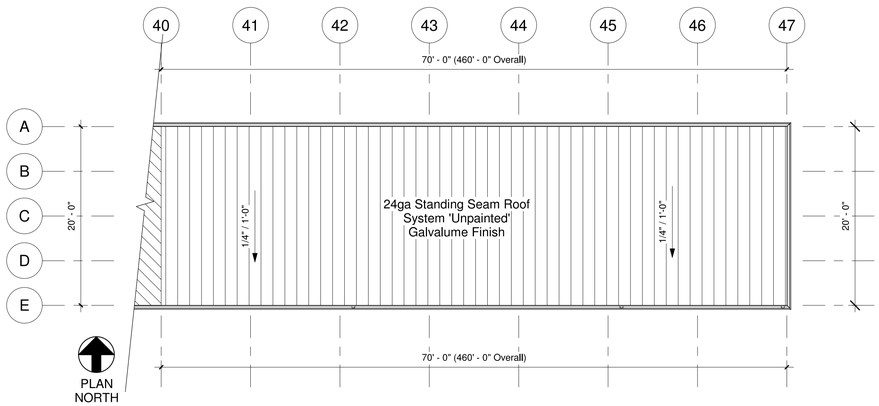
Building 'G' Framing Plan



1 Building 'G' (Roofing Plan Grids 1-20)
1/8" = 1'-0"



2 Building 'G' (Roofing Plan Grids 20-40)
1/8" = 1'-0"



3 Building 'G' (Roofing Plan Grids 40-47)
1/8" = 1'-0"

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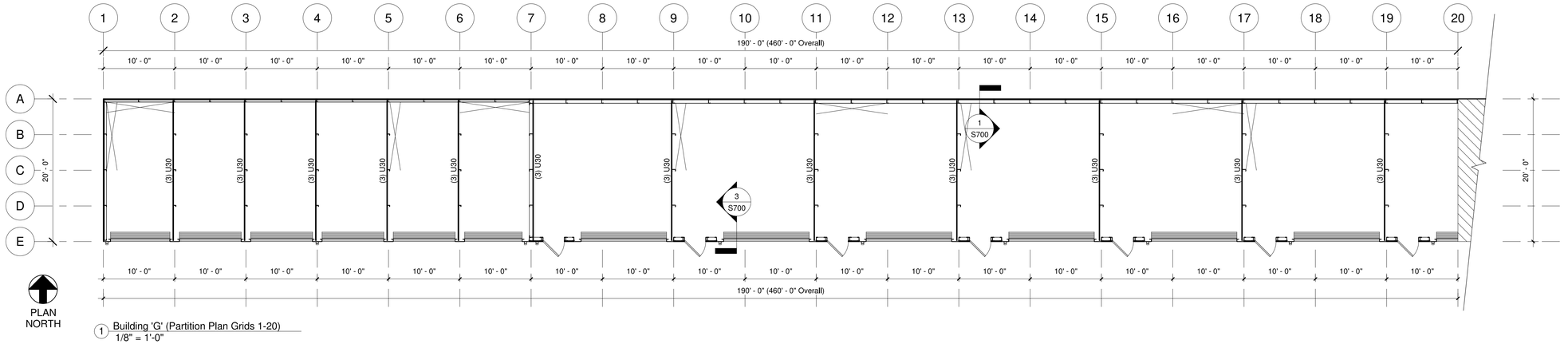
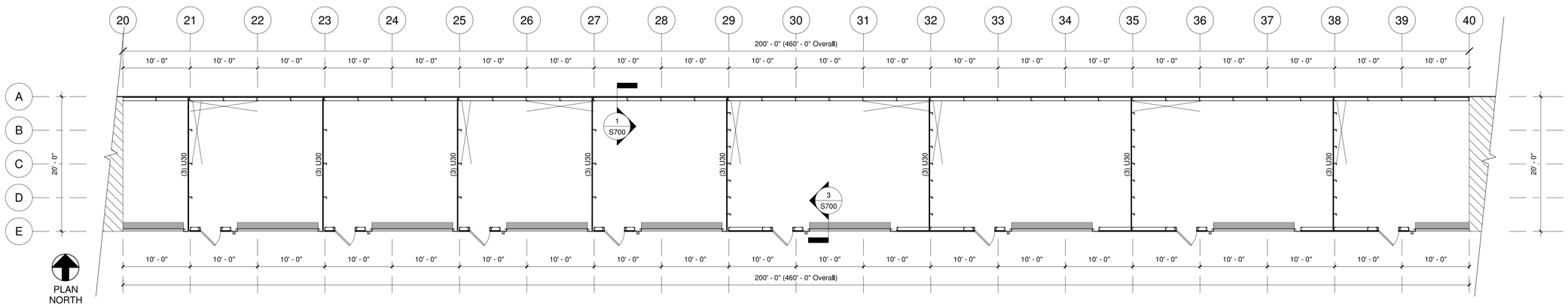
Drawn By	JLW
Checked By	SBD
Engineered By	

S252

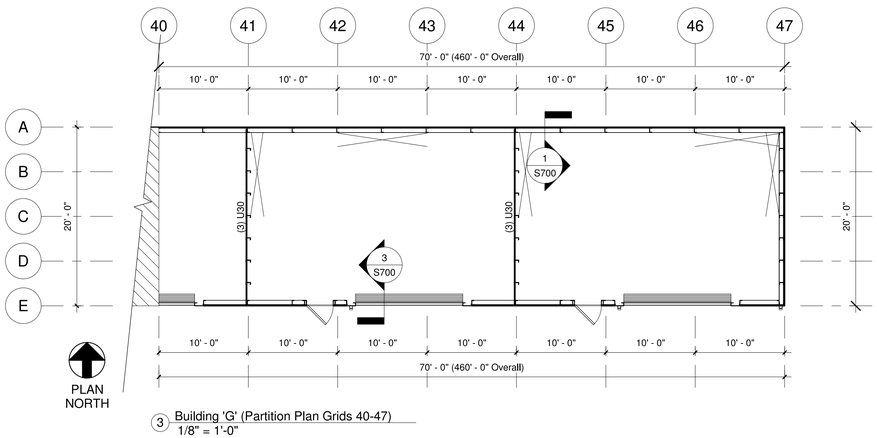
Building 'G' Roofing Plan



1 Building 'G' (Partition Plan Grids 1-20)
1/8" = 1'-0"



2 Building 'G' (Partition Plan Grids 20-40)
1/8" = 1'-0"



3 Building 'G' (Partition Plan Grids 40-47)
1/8" = 1'-0"

Wall Schedule					
Mark	Qty	Width	Depth	Length	Gauge
U30	66	3' - 0"	3/4"	19' - 7"	29ga

Partition Notes

Partition Walls: 29ga 'Unpainted' Galvalume Partition Panels. Panel Height To Be Coordinated With Onsite Superintendent.

Insulated Walls: 29ga 'Unpainted' Galvalume Partition Panels With Liner Panel Installed Up To The Underside of Roof.

Insulation:
Exterior Walls: R-19 Vinyl-Reinforced Insulation For Exterior Metal Panel Walls Only. Insulation For Brick Veneer/EIFS Walls By Others.
Interior Walls: R-13 Vinyl-Reinforced Insulation Sandwiched Betweel Metal Panels.
Roof: R-30 Vinyl-Reinforced Insulation with Thermal Blocks

Exclusions: Roll-Up Doors, Hallway/Corridor Partitions & Interior Buildouts

X = X-Bracing

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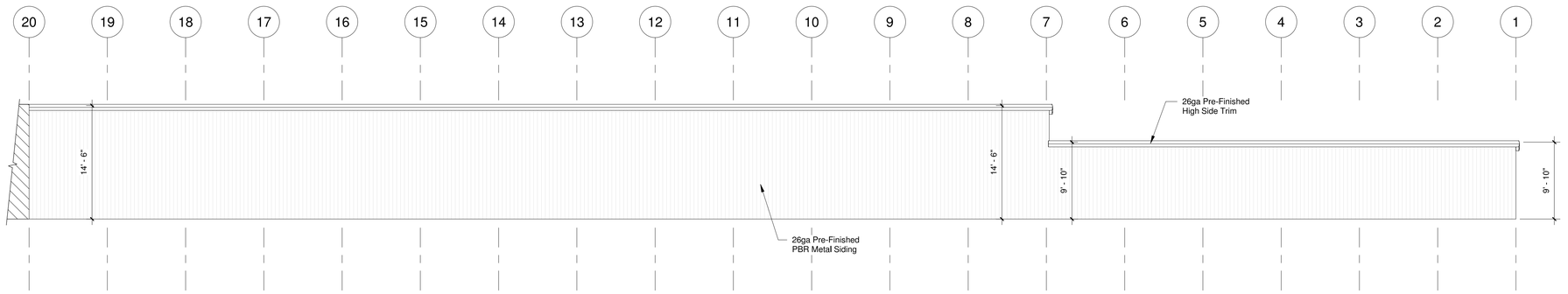
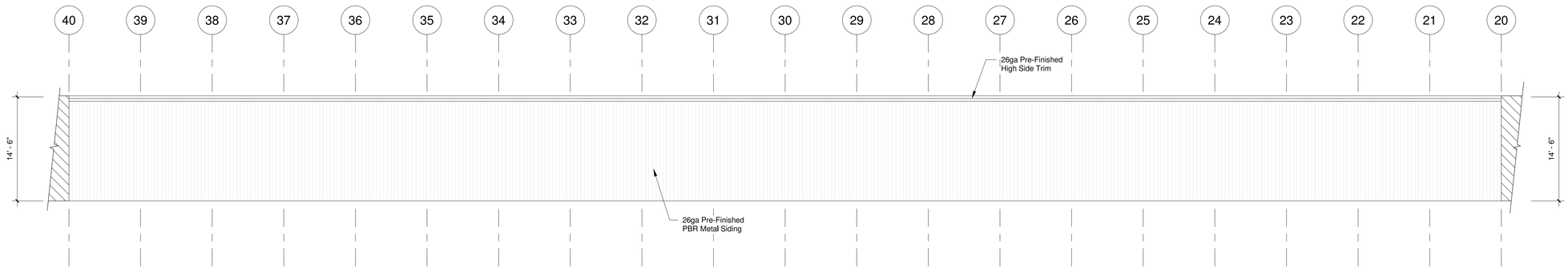
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

S253

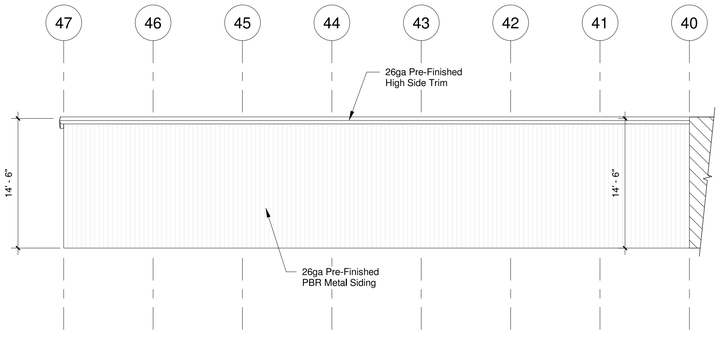
Building 'G' Partition Plan



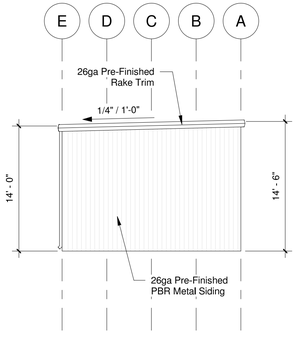
1 Building 'G' North Elevation (Grids 1-20)
1/8" = 1'-0"



2 Building 'G' North Elevation (Grids 20-40)
1/8" = 1'-0"



3 Building 'G' North Elevation (Grids 40-47)
1/8" = 1'-0"



4 Building 'G' East Elevation
1/8" = 1'-0"

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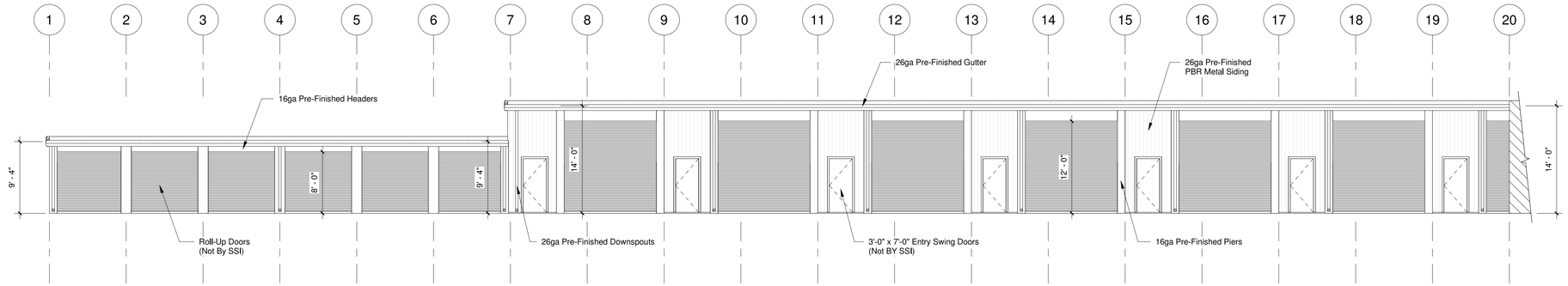
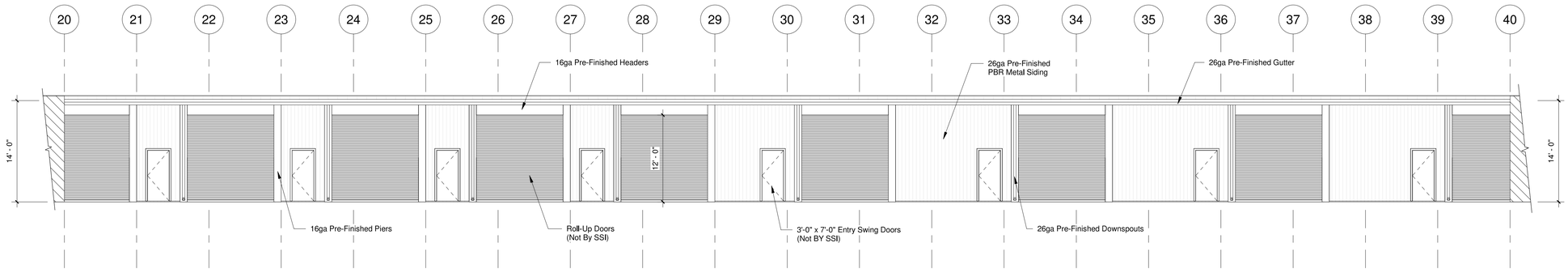
Checked By	SBD
Engineered By	

S254

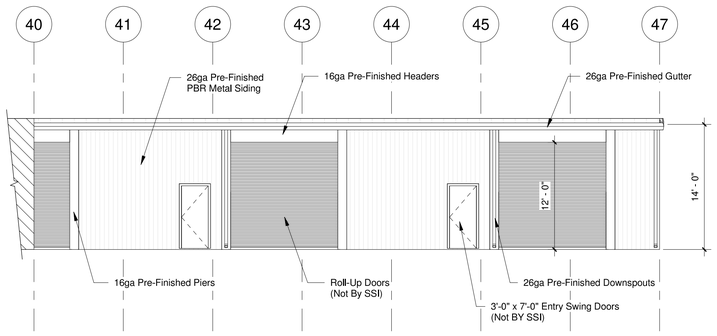
Building 'G' Elevations



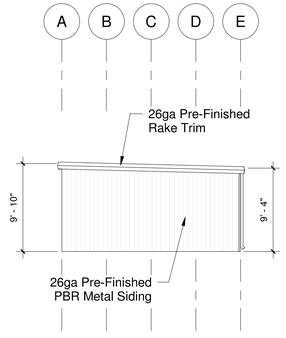
1 Building 'G' South Elevation (Grids 1-20)
1/8" = 1'-0"



2 Building 'G' South Elevation (Grids 20-40)
1/8" = 1'-0"



3 Building 'G' South Elevation (Grids 40-47)
1/8" = 1'-0"



4 Building 'G' West Elevation
1/8" = 1'-0"

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STORAGE STRUCTURES

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www.storagestructuresinc.com

Rev. #	Revision Date	Revision Description
1	2-25-2021	Owner Unit Mix Revision

Dan Lynch

Lady's Island Storage

18 Sams Pointe Rd
Beaufort, SC 29907

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER
No. 11352
ROGER S. LINGERFELT
3/5/2021

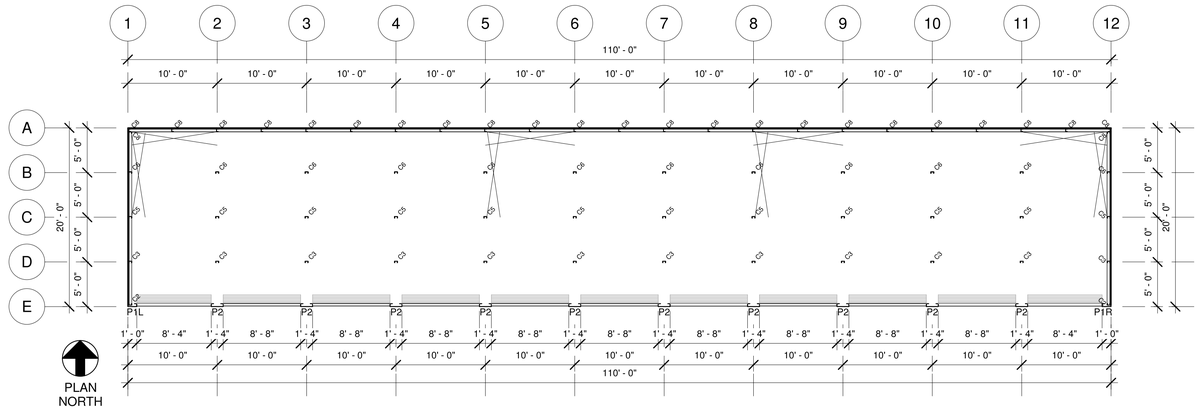
Roger S. Lingerfelt, P.E.
3360 Stock Road
Monroe, GA 30656
770-207-7997
rogerlingerfelt@gmail.com
South Carolina P.E. Number 11352

APPLICATION OF SEAL IS FOR METAL BUILDING ONLY AND DOES NOT REPRESENT THE PROFESSIONAL OF RECORD.

SSI Project Number	1008
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

S255

Building 'G' Elevations



1 Building 'H' (Post Plan)
1/8" = 1'-0"

16ga Pre-Finished Pier Schedule					
Mark	Qty	Width	Depth	Length	Gauge
P1L	1	12"	4"	9' - 4"	16ga
P1R	1	12"	4"	9' - 4"	16ga
P2	10	16"	4"	9' - 4"	16ga

Post Schedule					
Mark	Qty	Width	Depth	Length	Gauge
C2	1	4"	2"	9' - 2 1/2"	16ga
C3	6	4"	2"	9' - 4"	16ga
C5	6	4"	2"	9' - 5 1/2"	16ga
C6	6	4"	2"	9' - 7"	16ga
C8	14	4"	2"	9' - 8 1/2"	16ga
C37	117	6"	2 1/2"	13' - 10 1/2"	16ga
C38	7	6"	2 1/2"	13' - 11 1/4"	16ga
C39	18	6"	2 1/2"	14' - 0"	16ga
C40	7	6"	2 1/2"	14' - 0 3/4"	16ga
C41	18	6"	2 1/2"	14' - 1 1/2"	16ga
C42	7	6"	2 1/2"	14' - 2 1/4"	16ga
C43	18	6"	2 1/2"	14' - 3"	16ga
C44	7	6"	2 1/2"	14' - 3 3/4"	16ga
C45	83	6"	2 1/2"	14' - 4 1/2"	16ga

Framing Notes

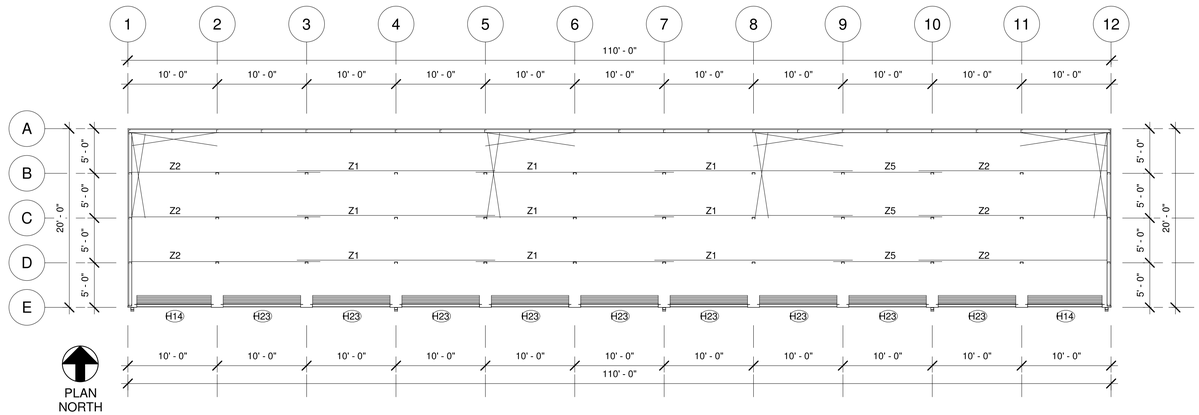
Interior Framing: 4" x 2" x 16ga Posts On A 5'-0" x 10'-0" Grid Framing System. (U.N.O.)

Exterior Wall Framing: 4" x 2" x 16ga Posts @ 5'-0" o.c. In 14ga Top & 16ga Bottom Track.

Exterior Floor Track - Punch Holes in Floor Track To Match Post Spacing For Wedge Anchors. Place Wedge Anchor 6" From Each End of Track.

X = X-Bracing

Exterior Dimensions Are Taken From The Outside Face Of Framing. Double Posts Are Dimensioned To Center of Main Post Only. All Other Dimensions Are Center To Center of Posts.
Hallways Should Have A Clear Dimension Of 5'-5" Between Post (U.N.O.).
Shaded Areas Indicate Hallways.



2 Building 'H' (Framing Plan)
1/8" = 1'-0"

16ga Pre-Finished Header Schedule					
Mark	Qty	Width	Depth	Length	Gauge
H14	2	1' - 4"	3 1/2"	8' - 4"	16ga
H23	9	1' - 4"	3 1/2"	8' - 8"	16ga

Purlin Schedule					
Mark	Qty	Width	Depth	Length	Gauge
Z1	9	6"	2 1/2"	22' - 2"	16ga
Z2	6	6"	2 1/2"	21' - 1"	16ga
Z5	3	6"	2 1/2"	12' - 2"	16ga

Framing Notes

Interior Framing: See Post Plans. Zee Purlins Every 5'-0" o.c. (U.N.O.)

Exterior Wall Framing: See Post Plans.

Exclusions: Brick Veneer/EIFS

X = X-Bracing

Exterior Dimensions Are Taken From The Outside Face Of Framing. Double Posts Are Dimensioned To Center of Main Post Only. All Other Dimensions Are Center To Center of Posts.
Hallways Should Have A Clear Dimension Of 5'-5" Between Post (U.N.O.).
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Rev. #	Revision Date	Revision Description

Dan Lynch

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18 Sams Pointe Rd
Beaufort, SC 29907



Roger S. Lingerfelt, P.E.
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Monroe, GA 30656
770-207-7997
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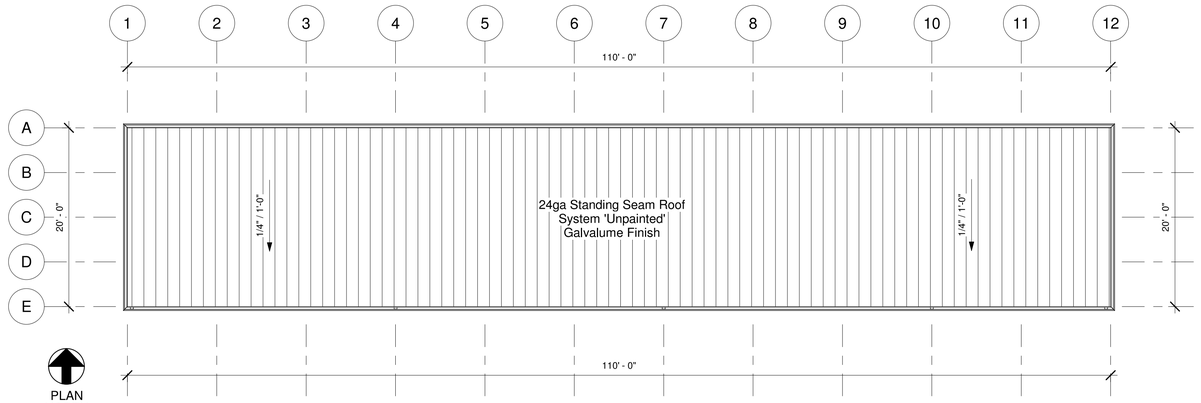
South Carolina P.E. Number 11352

APPLICATION OF SEAL IS FOR METAL BUILDING ONLY AND DOES NOT REPRESENT THE PROFESSIONAL OF RECORD.

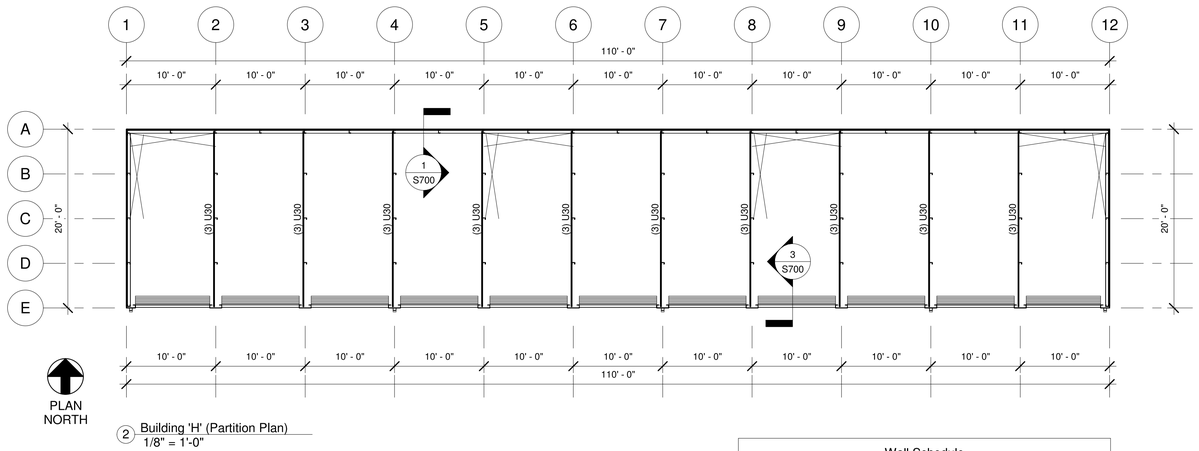
SSI Project Number	1008
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

S260

Building 'H' Plans



1 Building 'H' (Roofing Plan)
1/8" = 1'-0"



2 Building 'H' (Partition Plan)
1/8" = 1'-0"

Wall Schedule					
Mark	Qty	Width	Depth	Length	Gauge
U30	30	3' - 0"	3/4"	19' - 7"	29ga

Partition Notes

Partition Walls: 29ga 'Unpainted' Galvalume Partition Panels. Panel Height To Be Coordinated With Onsite Superintendent.

Insulated Walls: 29ga 'Unpainted' Galvalume Partition Panels With Liner Panel Installed Up To The Underside of Roof.

Insulation:
Exterior Walls: R-19 Vinyl-Reinforced Insulation For Exterior Metal Panel Walls Only.
Insulation For Brick Veneer/EIFS Walls By Others.
Interior Walls: R-13 Vinyl-Reinforced Insulation Sandwiched Betweel Metal Panels.
Roof: R-30 Vinyl-Reinforced Insulation with Thermal Blocks

Exclusions: Roll-Up Doors, Hallway/Corridor Partitions & Interior Buildouts

X = X-Bracing

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No. 11352
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3/5/2021

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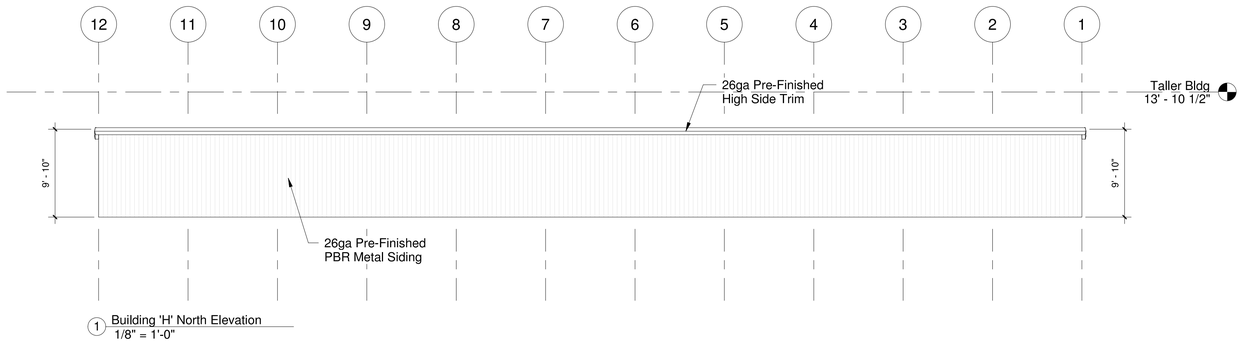
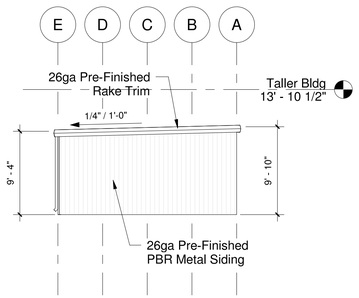
SSI Project Number	1008
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

S261

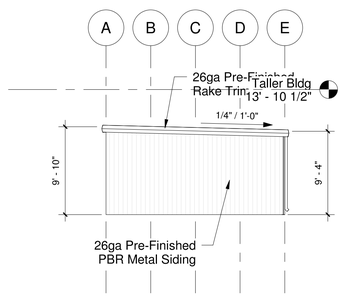
Building 'H' Plans



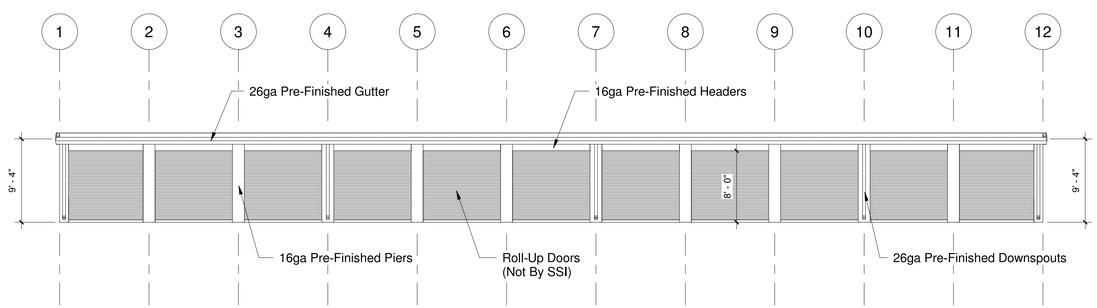
1 Building 'H' North Elevation
1/8" = 1'-0"



2 Building 'H' East Elevation
1/8" = 1'-0"



3 Building 'H' West Elevation
1/8" = 1'-0"



4 Building 'H' South Elevation
1/8" = 1'-0"

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Rev. #	Revision Date	Revision Description

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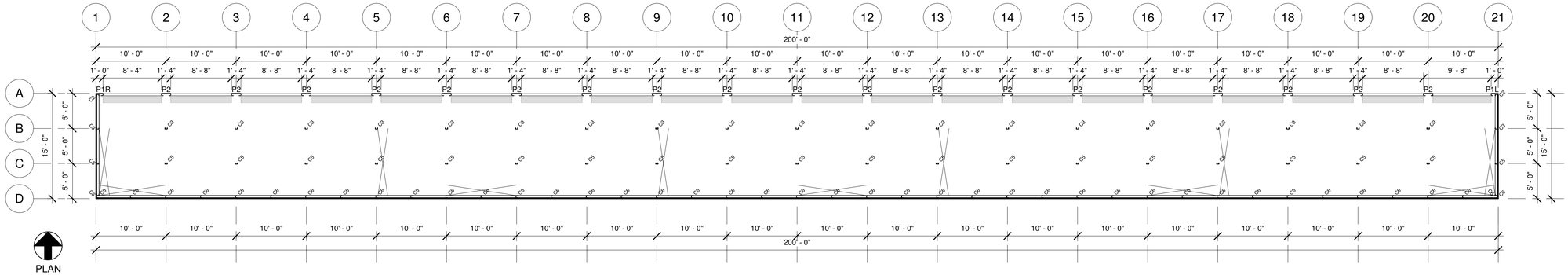
South Carolina P.E. Number 11352

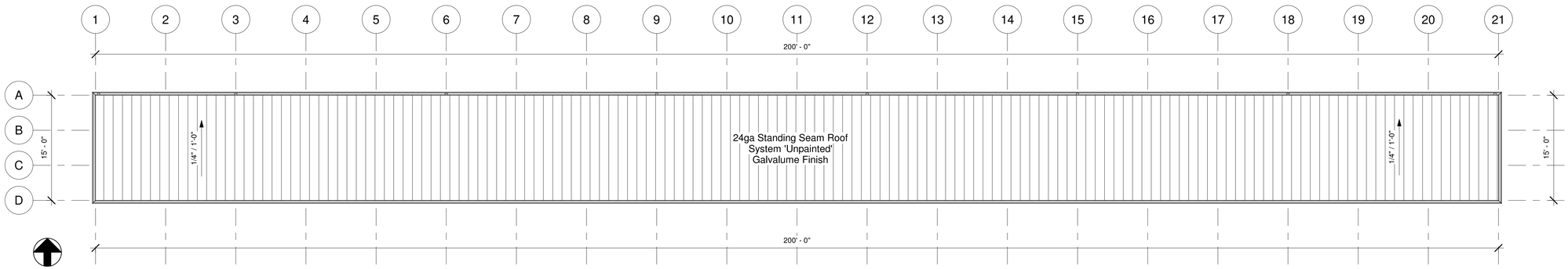
APPLICATION OF SEAL IS FOR METAL BUILDING ONLY AND DOES NOT REPRESENT THE PROFESSIONAL OF RECORD.

SSI Project Number	1008
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

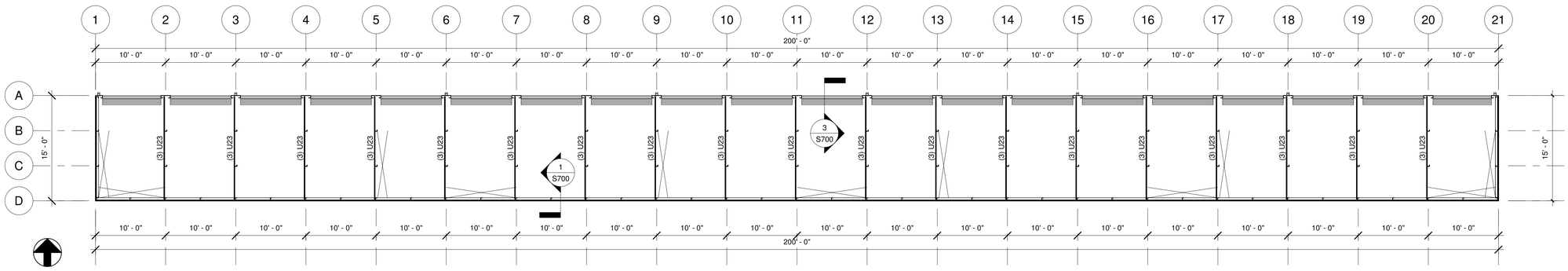
S262

Building 'H' Elevations


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
200' - 0"
10' - 0" 10' - 0"
1' - 0" 8' - 4" 1' - 4" 8' - 8" 1' - 4" 8' - 8" 1' - 4" 8' - 8



1 Building 'I' (Roofing Plan)
1/8" = 1'-0"



2 Building 'I' (Partition Plan)
1/8" = 1'-0"

Wall Schedule					
Mark	Qty	Width	Depth	Length	Gauge
U23	57	3' - 0"	3/4"	14' - 7"	29ga

Partition Notes

Partition Walls: 29ga 'Unpainted' Galvalume Partition Panels. Panel Height To Be Coordinated With Onsite Superintendent.

Insulated Walls: 29ga 'Unpainted' Galvalume Partition Panels With Liner Panel Installed Up To The Underside of Roof.

Insulation:
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Interior Walls: R-13 Vinyl-Reinforced Insulation Sandwiched Betweel Metal Panels.
Roof: R-30 Vinyl-Reinforced Insulation with Thermal Blocks

Exclusions: Roll-Up Doors, Hallway/Corridor Partitions & Interior Buildouts

X = X-Bracing

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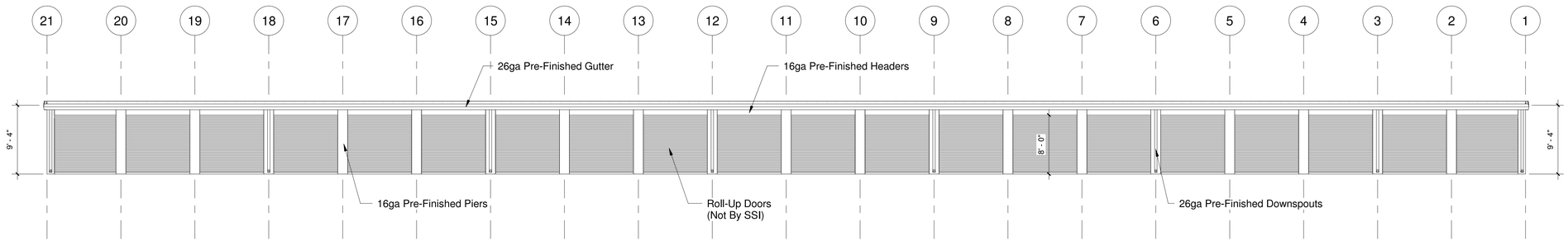
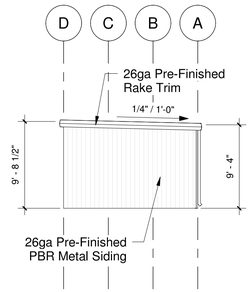
SSI Project Number	1008
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

S271

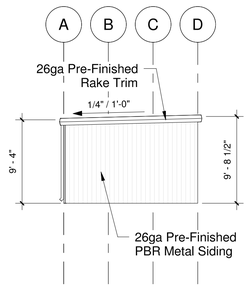
Building 'I' Plans



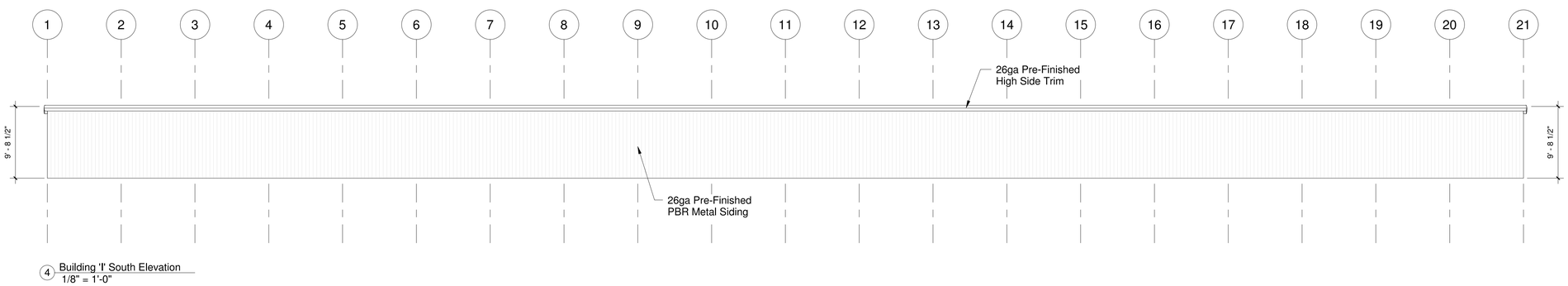
1 Building 'I' North Elevation
1/8" = 1'-0"



2 Building 'I' East Elevation
1/8" = 1'-0"



3 Building 'I' West Elevation
1/8" = 1'-0"



4 Building 'I' South Elevation
1/8" = 1'-0"

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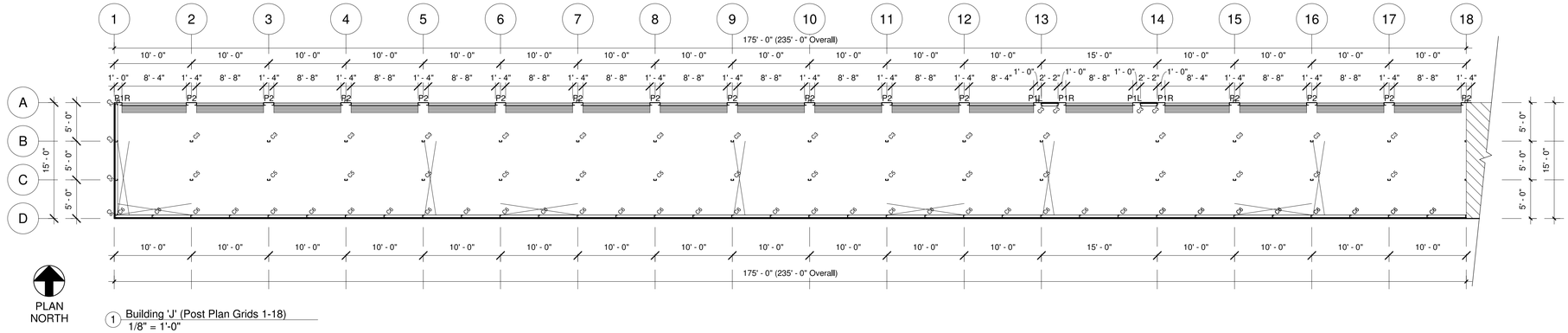
SSI Project Number	1008
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

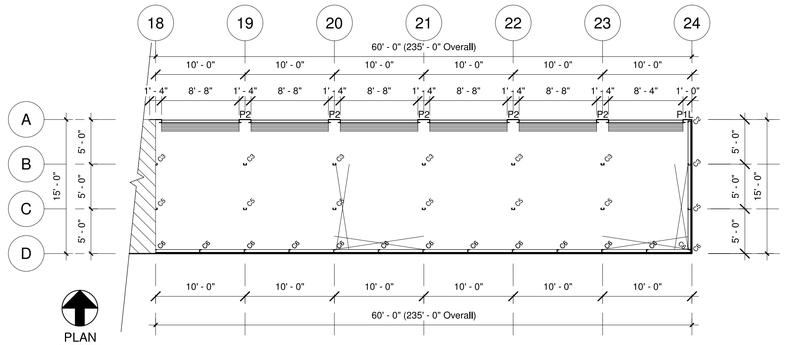
S272

Building 'I' Elevations



PLAN NORTH

1 Building 'J' (Post Plan Grids 1-18)
1/8" = 1'-0"



PLAN NORTH

2 Building 'J' (Post Plan Grids 18-24)
1/8" = 1'-0"

16ga Pre-Finished Pier Schedule					
Mark	Qty	Width	Depth	Length	Gauge
P1L	3	12"	4"	9' - 4"	16ga
P1R	3	12"	4"	9' - 4"	16ga
P2	20	16"	4"	9' - 4"	16ga

Post Schedule					
Mark	Qty	Width	Depth	Length	Gauge
C2	2	4"	2"	9' - 2 1/2"	16ga
C3	28	4"	2"	9' - 4"	16ga
C5	24	4"	2"	9' - 5 1/2"	16ga
C6	70	4"	2"	9' - 7"	16ga

Framing Notes

Interior Framing: 4" x 2" x 16ga Posts On A 5'-0" x 10'-0" Grid Framing System. (U.N.O.)

Exterior Wall Framing: 4" x 2" x 16ga Posts @ 5'-0" o.c. In 14ga Top & 16ga Bottom Track.

Exterior Floor Track - Punch Holes in Floor Track To Match Post Spacing For Wedge Anchors. Place Wedge Anchor 6" From Each End of Track.

X = X-Bracing

Exterior Dimensions Are Taken From The Outside Face Of Framing. Double Posts Are Dimensioned To Center of Main Post Only. All Other Dimensions Are Center To Center of Posts.
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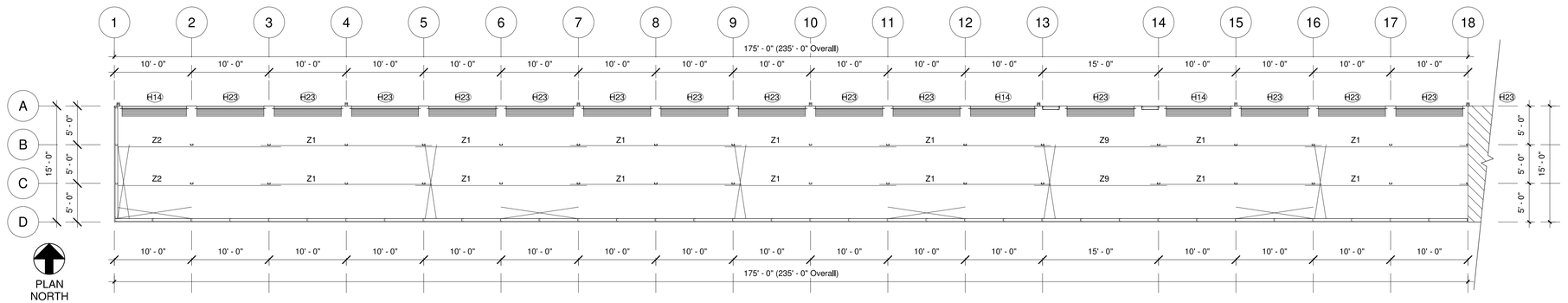
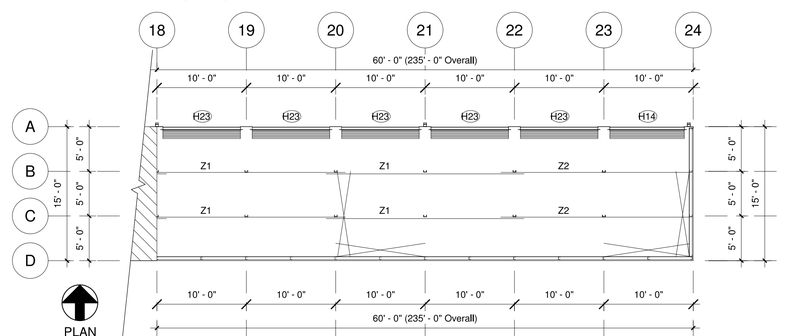
Shaded Areas Indicate Hallways.



PLAN NORTH

3 Building 'J' (Framing Plan Grids 1-18)
1/8" = 1'-0"



PLAN NORTH

4 Building 'J' (Framing Plan Grids 18-24)
1/8" = 1'-0"

16ga Pre-Finished Header Schedule					
Mark	Qty	Width	Depth	Length	Gauge
H14	4	1' - 4"	3 1/2"	8' - 4"	16ga
H23	19	1' - 4"	3 1/2"	8' - 8"	16ga

Purlin Schedule					
Mark	Qty	Width	Depth	Length	Gauge
Z1	18	6"	2 1/2"	22' - 2"	16ga
Z2	4	6"	2 1/2"	21' - 1"	16ga
Z9	2	6"	2 1/2"	17' - 2"	14ga

Framing Notes

Interior Framing: See Post Plans. Zee Purlins Every 5'-0" o.c. (U.N.O.)

Exterior Wall Framing: See Post Plans.

Exclusions: Brick Veneer/EIFS

X = X-Bracing

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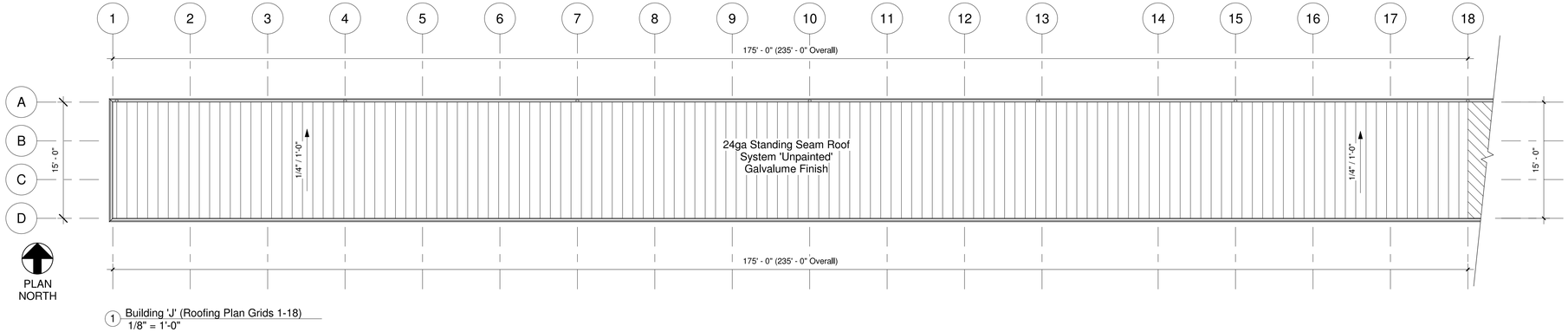
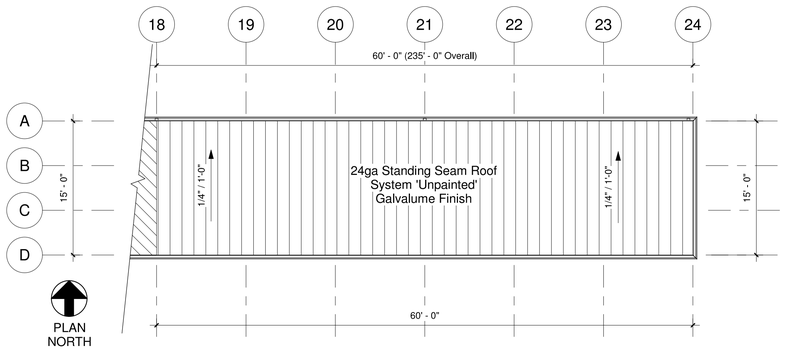
Checked By	SBD
Engineered By	

S280

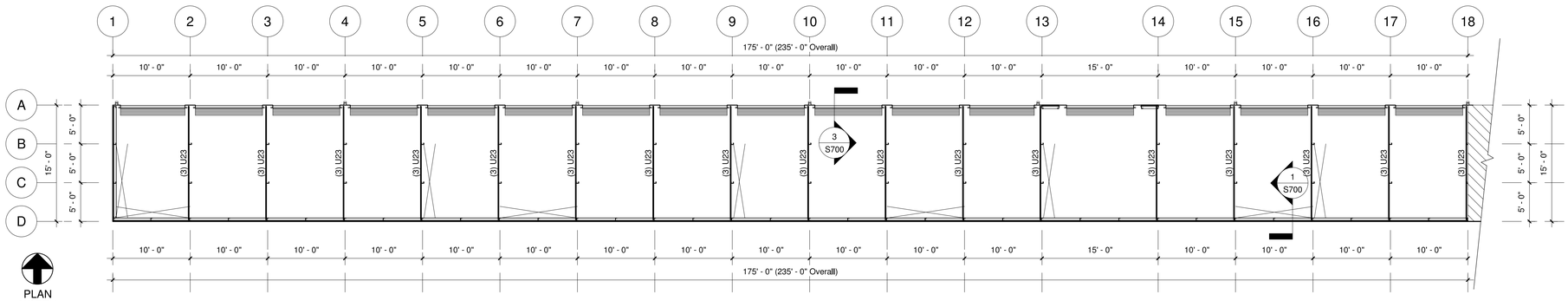
Building 'J' Plans



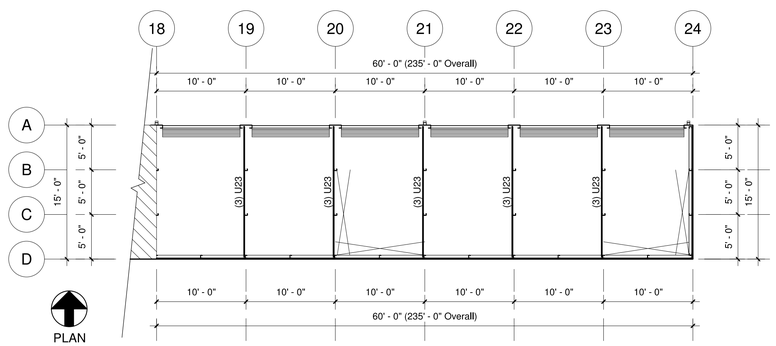
1 Building 'J' (Roofing Plan Grids 1-18)
1/8" = 1'-0"



2 Building 'J' (Roofing Plan Grids 18-24)
1/8" = 1'-0"



3 Building 'J' (Partition Plan Grids 1-18)
1/8" = 1'-0"



4 Building 'J' (Partition Plan Grids 18-24)
1/8" = 1'-0"

Wall Schedule					
Mark	Qty	Width	Depth	Length	Gauge
U23	66	3' - 0"	3/4"	14' - 7"	29ga

Partition Notes

Partition Walls: 29ga 'Unpainted' Galvalume Partition Panels. Panel Height To Be Coordinated With Onsite Superintendent.

Insulated Walls: 29ga 'Unpainted' Galvalume Partition Panels With Liner Panel Installed Up To The Underside of Roof.

Insulation:
Exterior Walls: R-19 Vinyl-Reinforced Insulation For Exterior Metal Panel Walls Only.
Insulation For Brick Veneer/EIFS Walls By Others.
Interior Walls: R-13 Vinyl-Reinforced Insulation Sandwiched Betweel Metal Panels.
Roof: R-30 Vinyl-Reinforced Insulation with Thermal Blocks

Exclusions: Roll-Up Doors, Hallway/Corridor Partitions & Interior Buildouts

X = X-Bracing

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www.storagestructuresinc.com

Rev. #	Revision Date	Revision Description

Dan Lynch

Lady's Island Storage

18 Sams Pointe Rd
Beaufort, SC 29907

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 11352
ROGER S. LINGERFELT
3/5/2021

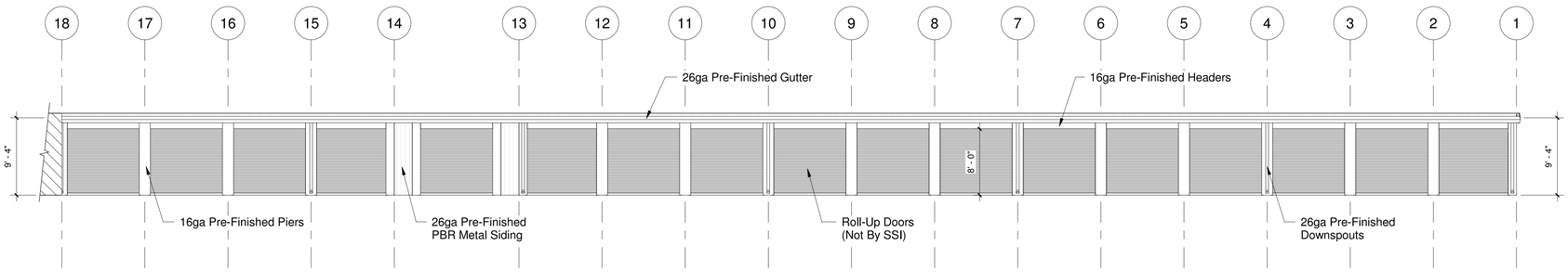
Roger S. Lingerfelt, P.E.
3360 Stock Road
Monroe, GA 30656
770-207-7997
rogerlingerfelt@gmail.com
South Carolina P.E. Number 11352

APPLICATION OF SEAL IS FOR METAL BUILDING ONLY AND DOES NOT REPRESENT THE PROFESSIONAL OF RECORD.

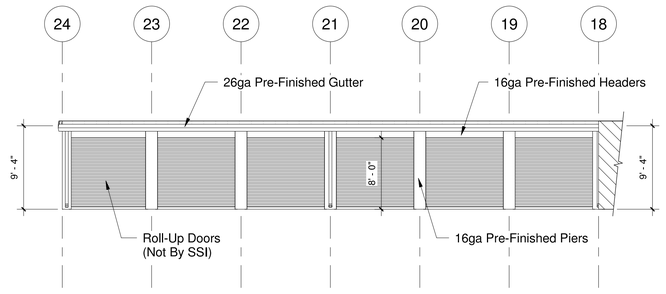
SSI Project Number	1008
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

S281

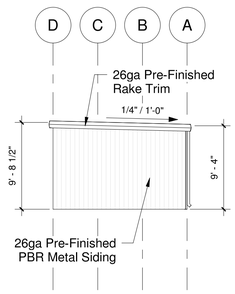
Building 'J' Plans



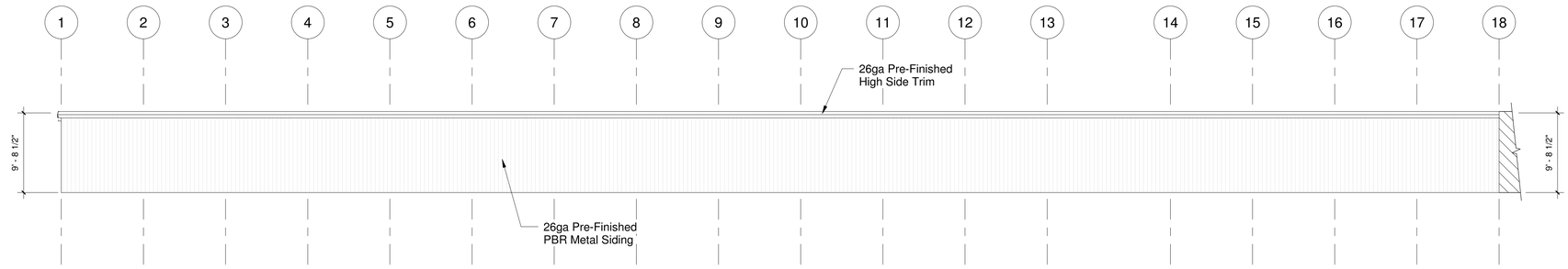
1 Building 'J' North Elevation (Grids 1-18)
1/8" = 1'-0"



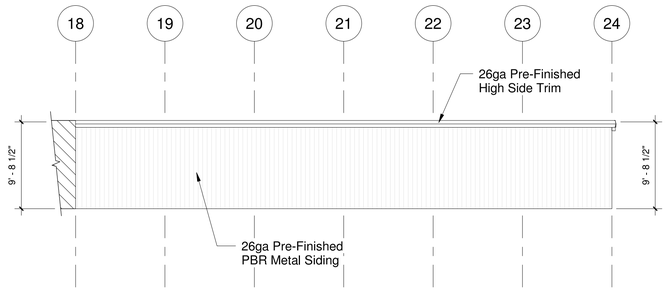
2 Building 'J' North Elevation (Grids 18-24)
1/8" = 1'-0"



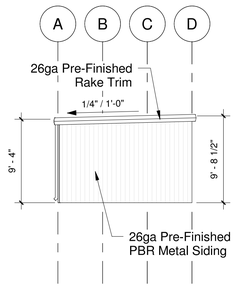
3 Building 'J' East Elevation
1/8" = 1'-0"



4 Building 'J' South Elevation (Grids 1-18)
1/8" = 1'-0"



5 Building 'J' South Elevation (Grids 18-24)
1/8" = 1'-0"



6 Building 'J' West Elevation
1/8" = 1'-0"

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Rev. #	Revision Date	Revision Description

Dan Lynch

Lady's Island Storage

18 Sams Pointe Rd
Beaufort, SC 29907



Roger S. Lingerfelt, P.E.
3360 Stock Road
Monroe, GA 30656
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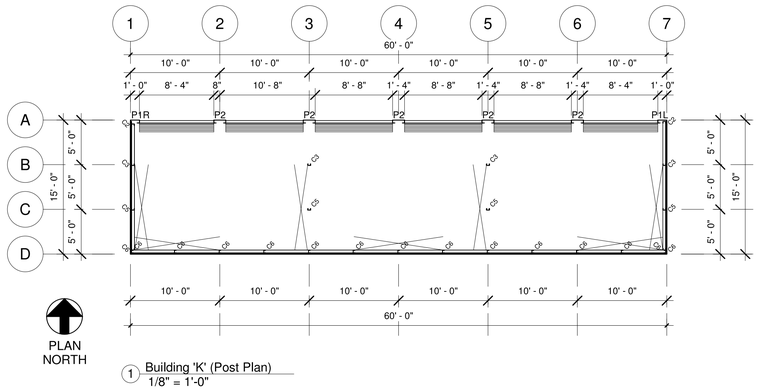
South Carolina P.E. Number 11352

APPLICATION OF SEAL IS FOR METAL BUILDING ONLY AND DOES NOT REPRESENT THE PROFESSIONAL OF RECORD.

SSI Project Number	1008
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

S282

Building 'J' Elevations



1 Building 'K' (Post Plan)
1/8" = 1'-0"

Framing Notes

Interior Framing: 4" x 2" x 16ga Posts On A 5'-0" x 10'-0" Grid Framing System. (U.N.O.)

Exterior Wall Framing: 4" x 2" x 16ga Posts @ 5'-0" o.c. In 14ga Top & 16ga Bottom Track.

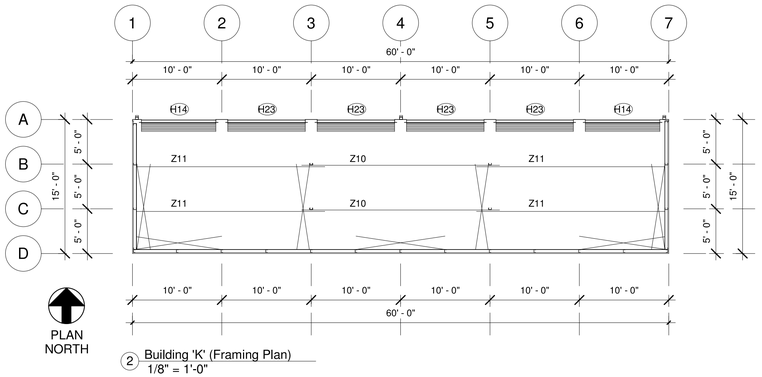
Exterior Floor Track - Punch Holes in Floor Track To Match Post Spacing For Wedge Anchors. Place Wedge Anchor 6" From Each End of Track.

X = X-Bracing

Exterior Dimensions Are Taken From The Outside Face Of Framing. Double Posts Are Dimensioned To Center of Main Post Only. All Other Dimensions Are Center To Center of Posts.
Hallways Should Have A Clear Dimension Of 5'-5" Between Post (U.N.O.).
Shaded Areas Indicate Hallways.

16ga Pre-Finished Pier Schedule					
Mark	Qty	Width	Depth	Length	Gauge
P1L	1	12"	4"	9' - 4"	16ga
P1R	1	12"	4"	9' - 4"	16ga
P2	5	16"	4"	9' - 4"	16ga

Post Schedule					
Mark	Qty	Width	Depth	Length	Gauge
C2	2	4"	2"	9' - 2 1/2"	16ga
C3	4	4"	2"	9' - 4"	16ga
C5	4	4"	2"	9' - 5 1/2"	16ga
C6	15	4"	2"	9' - 7"	16ga



2 Building 'K' (Framing Plan)
1/8" = 1'-0"

Framing Notes

Interior Framing: See Post Plans. Zee Purlins Every 5'-0" o.c. (U.N.O.)

Exterior Wall Framing: See Post Plans.

Exclusions: Brick Veneer/EIFS

X = X-Bracing

Exterior Dimensions Are Taken From The Outside Face Of Framing. Double Posts Are Dimensioned To Center of Main Post Only. All Other Dimensions Are Center To Center of Posts.
Hallways Should Have A Clear Dimension Of 5'-5" Between Post (U.N.O.).
Shaded Areas Indicate Hallways.

16ga Pre-Finished Header Schedule					
Mark	Qty	Width	Depth	Length	Gauge
H14	2	1' - 4"	3 1/2"	8' - 4"	16ga
H23	4	1' - 4"	3 1/2"	8' - 8"	16ga

Purlin Schedule					
Mark	Qty	Width	Depth	Length	Gauge
Z10	2	10"	2 1/2"	22' - 2"	12ga
Z11	4	10"	2 1/2"	21' - 1"	12ga

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Rev. #	Revision Date	Revision Description
1	2-25-2021	Owner Unit Mix Revision

Dan Lynch

Lady's Island Storage

18 Sams Pointe Rd
Beaufort, SC 29907



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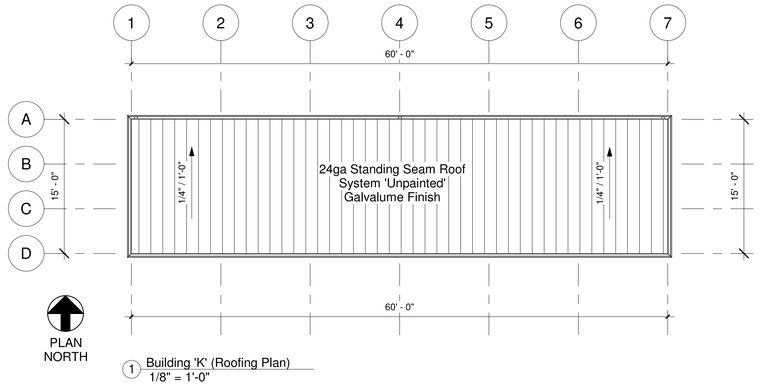
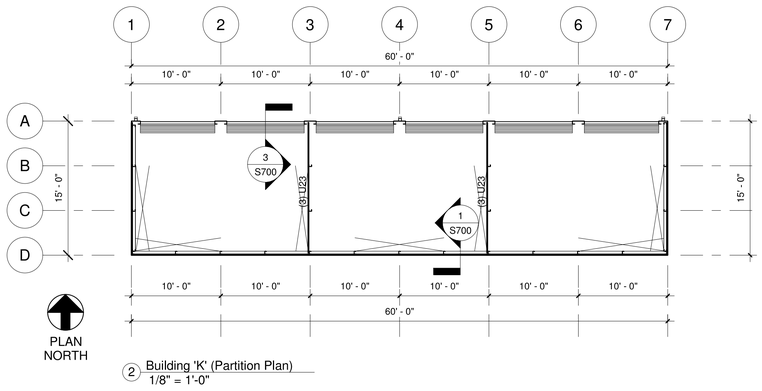
SSI Project Number	1008
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

S290

Building 'K' Plans



1 Building 'K' (Roofing Plan)
1/8" = 1'-0"



2 Building 'K' (Partition Plan)
1/8" = 1'-0"

Partition Notes

Partition Walls: 29ga 'Unpainted' Galvalume Partition Panels. Panel Height To Be Coordinated With Onsite Superintendent.

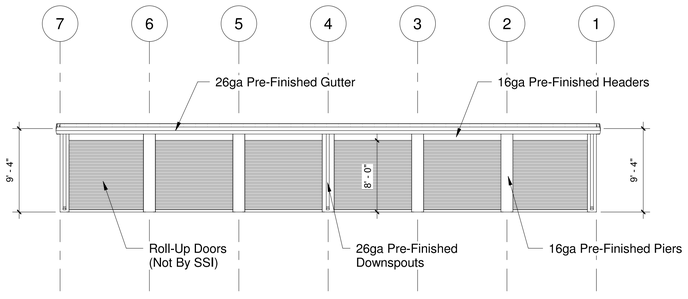
Insulated Walls: 29ga 'Unpainted' Galvalume Partition Panels With Liner Panel Installed Up To The Underside of Roof.

Insulation:
Exterior Walls: R-19 Vinyl-Reinforced Insulation For Exterior Metal Panel Walls Only. Insulation For Brick Veneer/EIFS Walls By Others.
Interior Walls: R-13 Vinyl-Reinforced Insulation Sandwiched Betweel Metal Panels.
Roof: R-30 Vinyl-Reinforced Insulation with Thermal Blocks

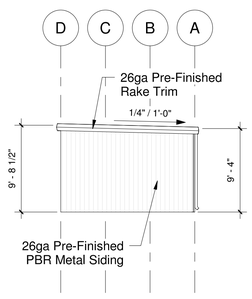
Exclusions: Roll-Up Doors, Hallway/Corridor Partitions & Interior Buildouts

X = X-Bracing

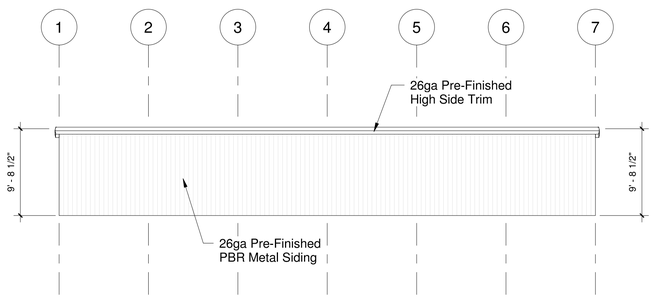
Wall Schedule					
Mark	Qty	Width	Depth	Length	Gauge
U23	6	3' - 0"	3/4"	14' - 7"	29ga



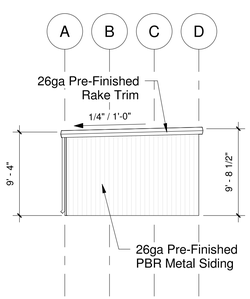
3 Building 'K' North Elevation
1/8" = 1'-0"



4 Building 'K' East Elevation
1/8" = 1'-0"



5 Building 'K' South Elevation
1/8" = 1'-0"



6 Building 'K' West Elevation
1/8" = 1'-0"

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Rev. #	Revision Date	Revision Description
1	2-25-2021	Owner Unit Mix Revision

Dan Lynch

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rogerlingerfelt@gmail.com
South Carolina P.E. Number 11352

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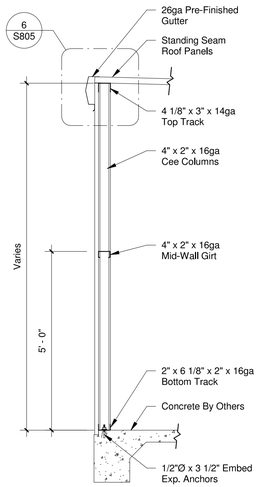
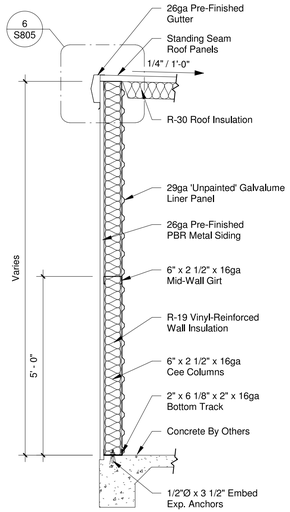
SSI Project Number	1008
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

S291

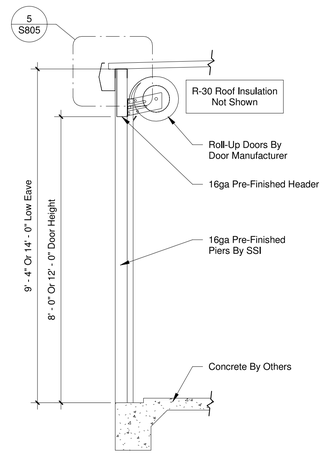
Building 'K' Plans



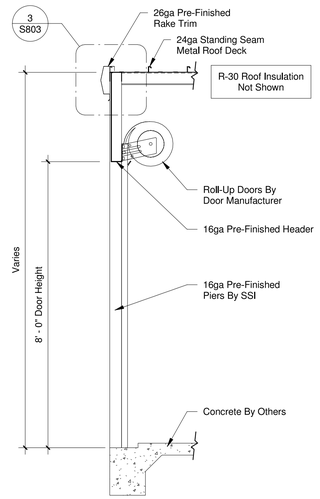
1 High Eave @ Non-Insulated Wall
1/2" = 1'-0"



2 High Side @ Insulated Wall
1/2" = 1'-0"



3 Low Eave @ Roll-Up Door
1/2" = 1'-0"



4 Rake Side @ Roll-Up Door
1/2" = 1'-0"

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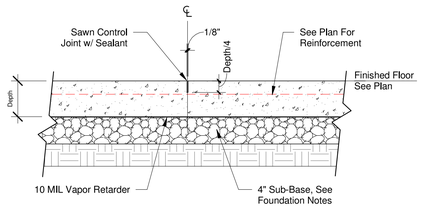
Drawn By	JLW
Checked By	SBD
Engineered By	

S700

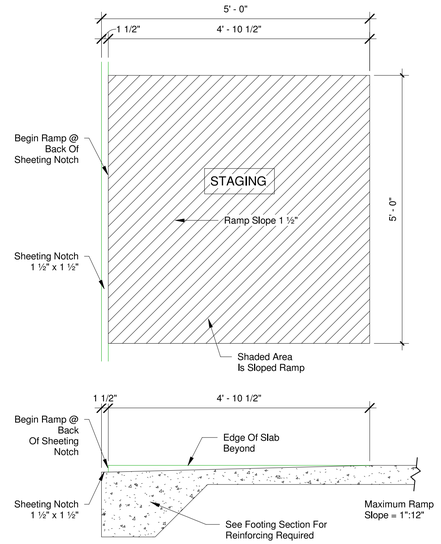
Exterior Wall Sections



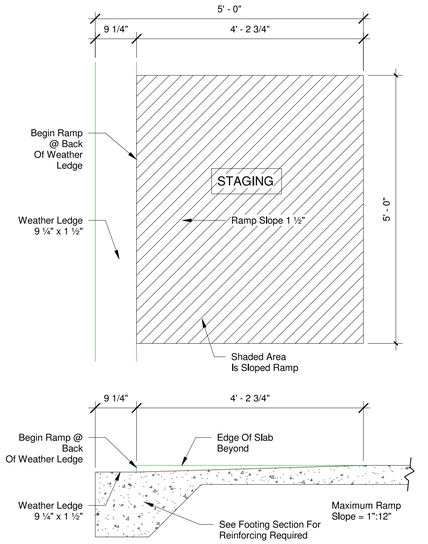
Notes

1. See Foundation Plan For Additional Slab Information, Including Depth & Reinforcing.
2. Sawcutting Of Control Joints Shall Be Done As Soon As The Concrete Has Hardened Sufficiently To Permit Cutting Without Chipping, Spalling Or Tearing But Not More Than 8 Hours After Casting.
3. Contractor May Elect To Sawcut Any CJ's As Indicated On Plan.

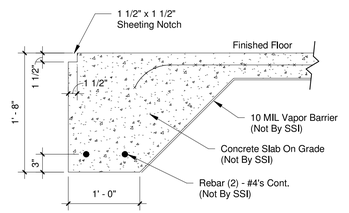
1 Control Joint @ Slab On Grade
1 1/2" = 1'-0"



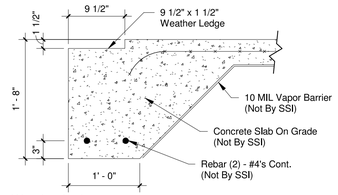
2 Entry Ramp
3/4" = 1'-0"



3 Entry Ramp (Weather Ledge)
3/4" = 1'-0"



4 Sheeting Notch
1" = 1'-0"



5 Weather Ledge
1" = 1'-0"

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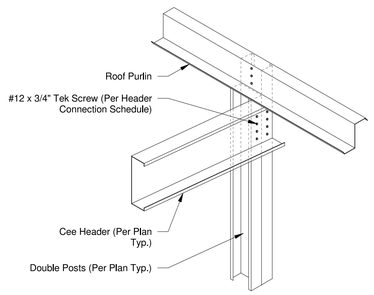
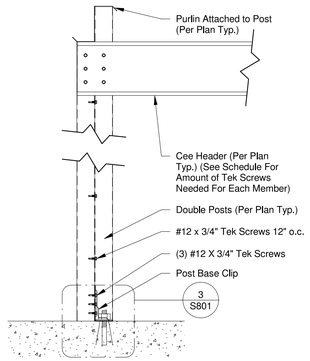
Checked By	SBD
Engineered By	

S800

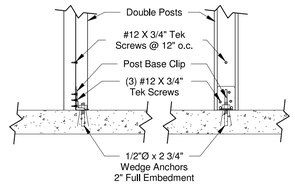
Foundation Details



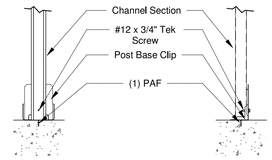
1 Cee Header - Single
1" = 1'-0"



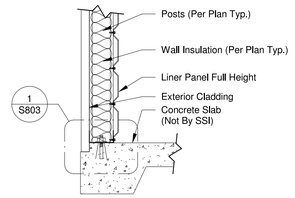
2 Double Post Detail (Single Story & Top Floor)
1 1/2" = 1'-0"



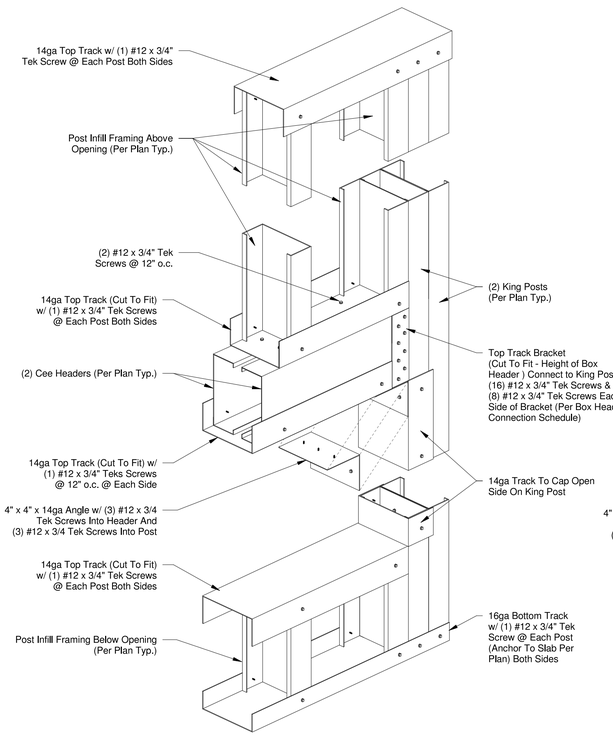
3 Double Post To Slab
1" = 1'-0"



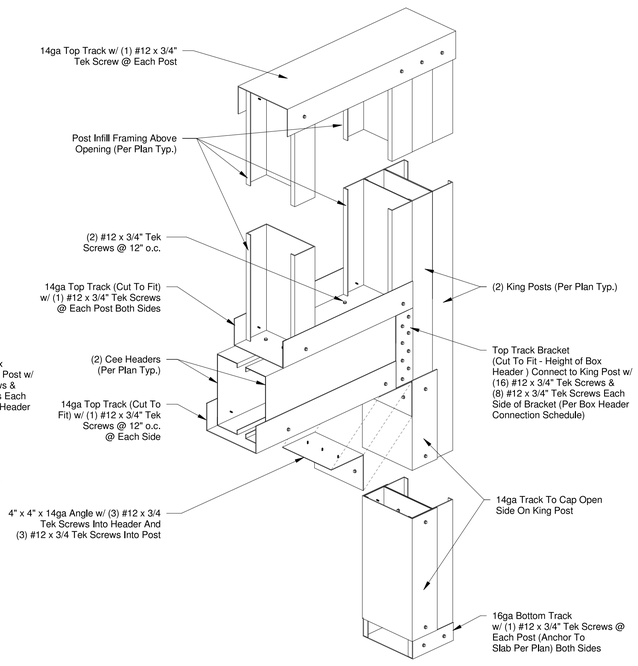
4 Channel Section To Slab
1 1/2" = 1'-0"



5 Exterior Insulated Wall
1" = 1'-0"

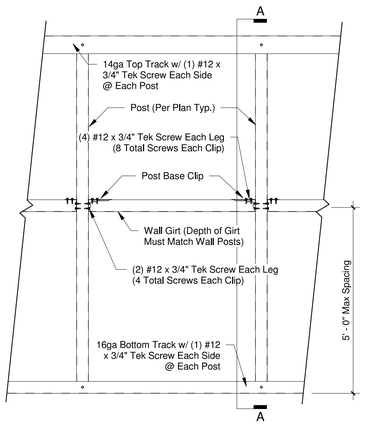


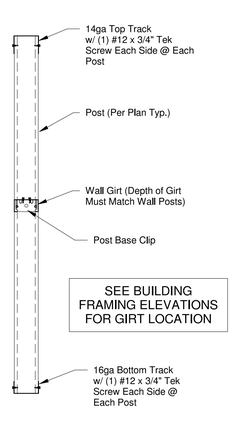
At Window Opening



At Doorway Opening

6 Exterior Box Header Connection
1 1/2" = 1'-0"





Section A-A

7 Exterior Mid-Wall Girt Framing
1" = 1'-0"

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Rev. #	Revision Date	Revision Description

Dan Lynch

Lady's Island Storage

18 Sams Pointe Rd
Beaufort, SC 29907



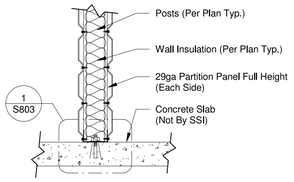
Roger S. Lingerfelt, P.E.
3360 Stock Road
Monroe, GA 30656
770-207-7997
rogerlingerfelt@gmail.com
South Carolina P.E. Number 11352

APPLICATION OF SEAL IS FOR METAL BUILDING ONLY AND DOES NOT REPRESENT THE PROFESSIONAL OF RECORD.

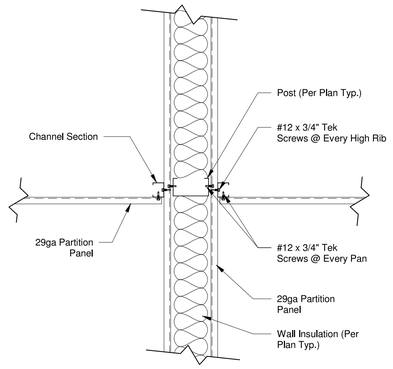
SSI Project Number	1008
Issue Date	11-17-2020
Drawn By	JLW
Checked By	SBD
Engineered By	

S801

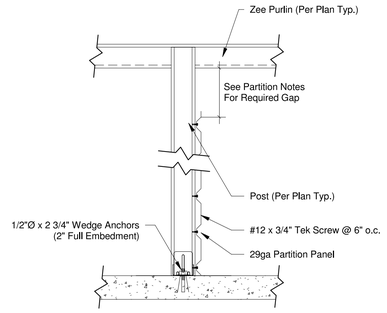
Details



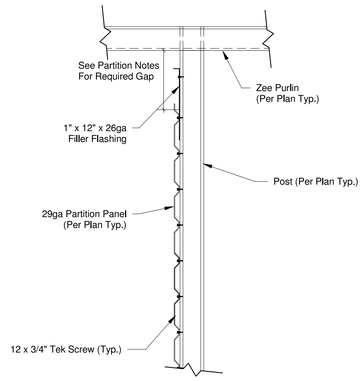
1 Insulated Partition
1" = 1'-0"



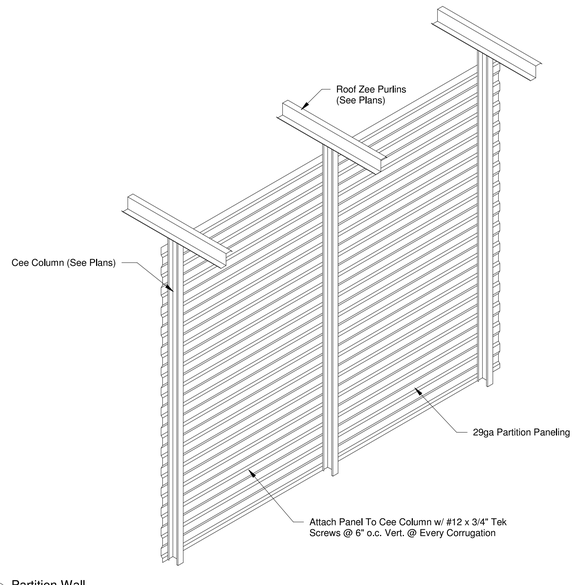
2 Insulated Partition Intersection
1 1/2" = 1'-0"



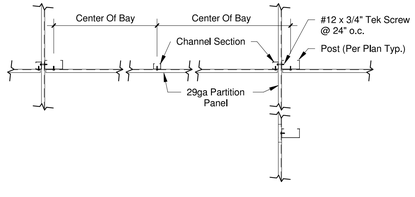
3 Interior Partition
1" = 1'-0"



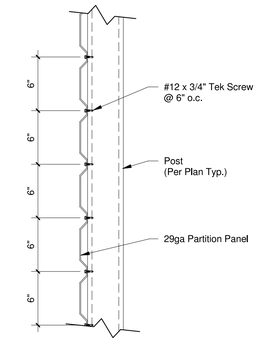
4 Partition Top Flashing Detail (Top Level / Single Story)
1" = 1'-0"



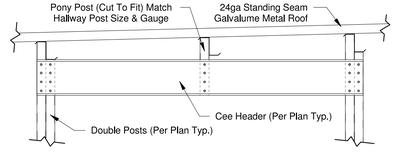
5 Partition Wall
1/2" = 1'-0"



6 Partition Wall Intersection
3/4" = 1'-0"



7 PBU Partition Panel Attachment Pattern
1 1/2" = 1'-0"



8 Pony Post to Purlin
3/4" = 1'-0"

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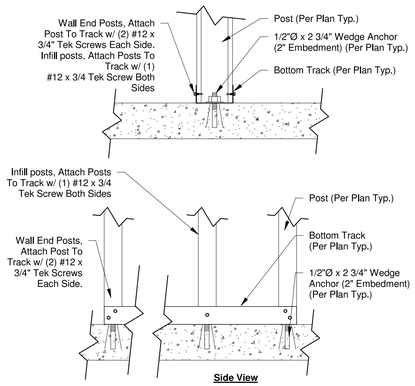
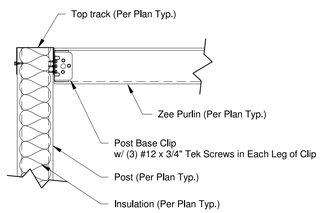
Drawn By	JLW
Checked By	SBD
Engineered By	

S802

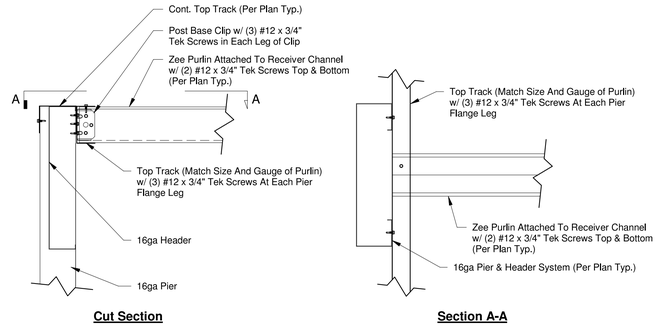
Details



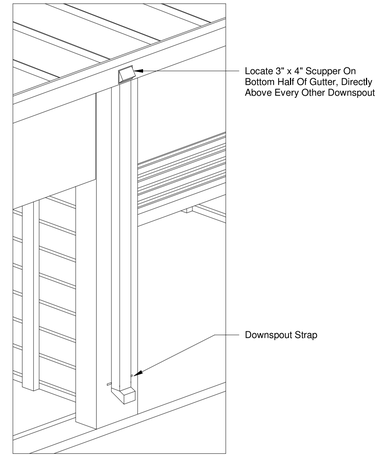
1 Column To Track Detail
1 1/2" = 1'-0"



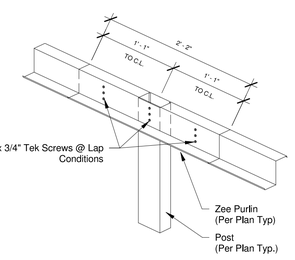
2 Purlin Connection To Framed End Wall
1 1/2" = 1'-0"

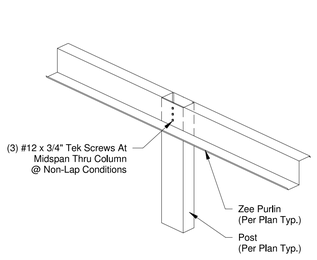


3 Purlin Connection To Header At End Wall
1 1/2" = 1'-0"

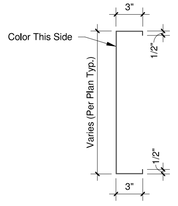


4 Scupper Detail
1/2" = 1'-0"

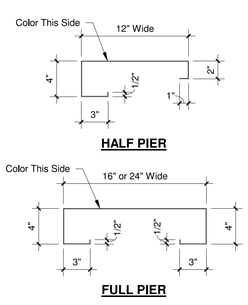




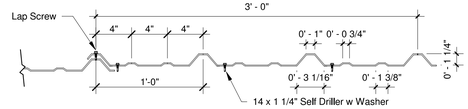
5 Purlin Lap
1" = 1'-0"



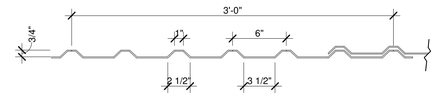
6 16ga Prefinished Header
1 1/2" = 1'-0"



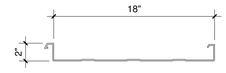
7 16ga Prefinished Pier
1 1/2" = 1'-0"



8 PBR Panel (Exterior Walls)
1 1/2" = 1'-0"



9 PBU Partition Panel Profile
1 1/2" = 1'-0"



10 Standing Seam 18"
1 1/2" = 1'-0"

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SSI Project Number	1008
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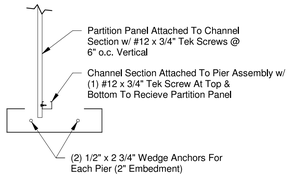
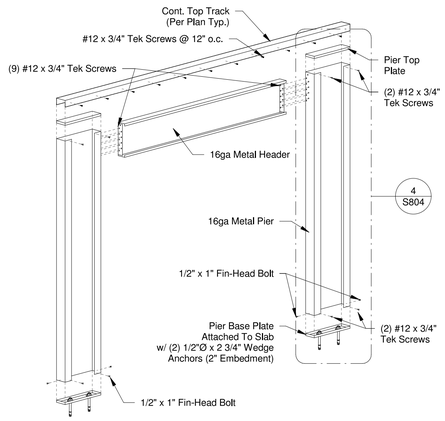
Drawn By	JLW
Checked By	SBD
Engineered By	

S803

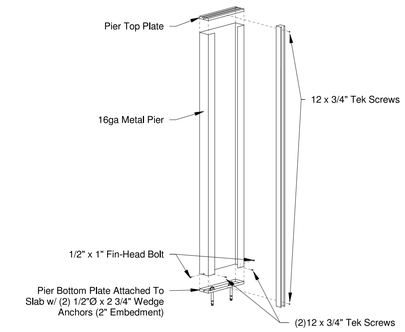
Details



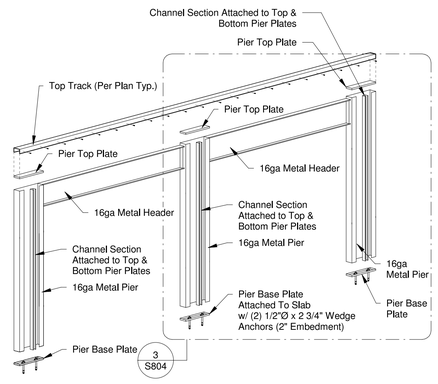
1 Metal Pier Plan
1" = 1'-0"



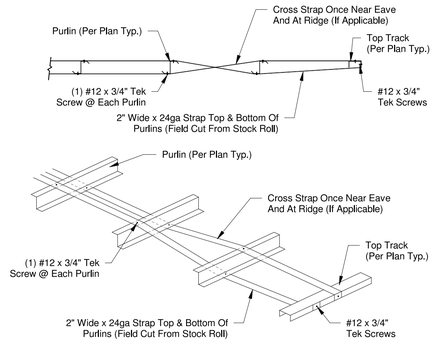
3 Pier & Header Assembly
3/8" = 1'-0"



4 Pier Assembly Detail
3/8" = 1'-0"



5 Pier To Channel Section
1/4" = 1'-0"



6 Purlin Midbay Strapping @ Non-Structural Pier Condition
1/2" = 1'-0"

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SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 11352
ROGER S. LINGERFELT
3/5/2021

Roger S. Lingerfelt, P.E.
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770-207-7997
rogerlingerfelt@gmail.com
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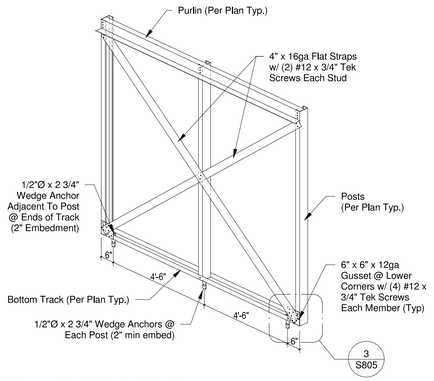
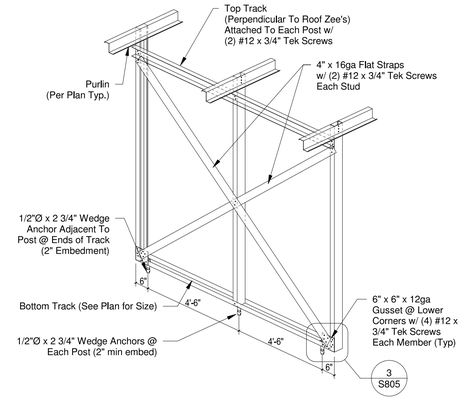
Drawn By	JLW
Checked By	SBD
Engineered By	

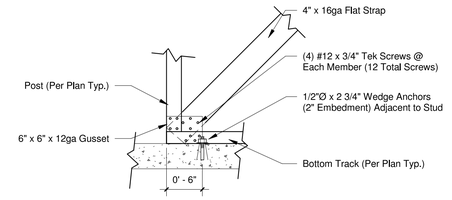
S804
Details



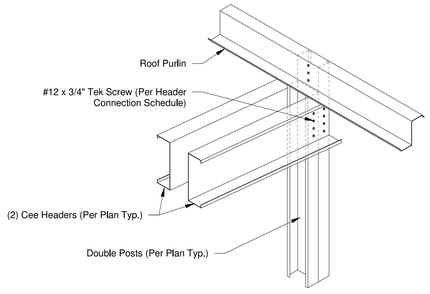
1 X-Bracing (Parallel to Roof Zee's)
3/8" = 1'-0"



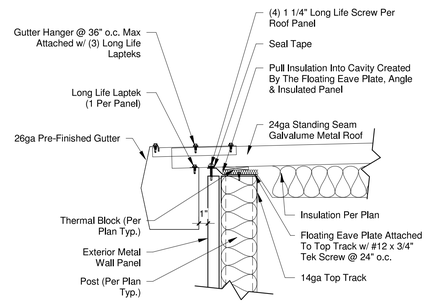
2 X-Bracing (Perpendicular to Roof Zee's)
3/8" = 1'-0"



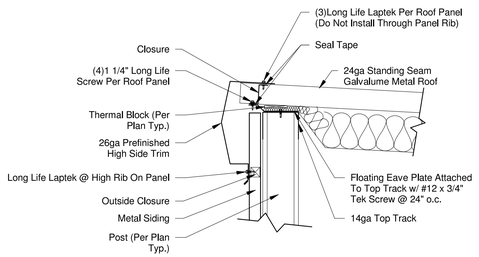
3 Gusset
1" = 1'-0"



4 Cee Header - Double
1" = 1'-0"



5 Low Eave Installation - Metal Wall Panels
1 1/2" = 1'-0"



6 High Eave Installation (Metal Siding)
1 1/2" = 1'-0"

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No. 11352
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3/5/2021

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Issue Date	11-17-2020
Drawn By	Author
Checked By	Checker
Engineered By	Designer

S805

Details

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THESE PLANS ARE ISSUED FOR A SINGLE PROJECT UTILIZING TRUSSES MANUFACTURED BY BLACKWATER TRUSS SYSTEM, INC.

STRUCTURAL NOTES

GENERAL

1. DESIGN CODE DATA
   2018 INTERNATIONAL BUILDING CODE
   ASCE 7-16: MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
   AISC 360-05: SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS

2. DESIGN LOADS:
   ROOF DEAD LOADS: 10 PSF
   ROOF LIVE LOADS: 20 PSF

3. WIND DESIGN CRITERIA
   WIND LOAD: 126 MPH 3 SECOND GUST
   NOMINAL DESIGN WIND SPEED: 98 MPH
   INTERNAL PRESSURE COEFFICIENT: ±0.0 (OPEN)
   RISK CATEGORY 1 BUILDING (THIS STRUCTURE IS DESIGNED AS AN UNINHABITABLE STRUCTURE AND SHALL NOT BE CONVERTED TO A HABITABLE WITHOUT PRIOR APPROVAL FROM ENGINEER OF RECORD)
   EXPOSURE CATEGORY B
   BASE VELOCITY PRESSURE: 24.2 PSF

4. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON OR EXISTING STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.

COMPONENTS AND CLADDING				
ROOFS	DESIGN PRESSURE (ULT)		DESIGN PRESSURE (ASD)	
TRIBUTARY AREA 10 SF	POSITIVE (PSF)	NEGATIVE (PSF)	POSITIVE (PSF)	NEGATIVE (PSF)
ZONE 1 max	24.0	23.3	14.4	14.0
ZONE 2 max	36.4	35.6	21.8	21.4
ZONE 3 max	48.1	69.9	28.8	41.9
TRIBUTARY AREA 100 SF	POSITIVE (PSF)	NEGATIVE (PSF)	POSITIVE (PSF)	NEGATIVE (PSF)
ZONE 1 max	24.0	23.3	14.4	14.0
ZONE 2 max	24.0	35.6	14.4	21.4
ZONE 3 max	24.0	35.6	14.4	21.4
WALLS	DESIGN PRESSURE		DESIGN PRESSURE	
TRIBUTARY AREA 10 SF	POSITIVE (PSF)	NEGATIVE (PSF)	POSITIVE (PSF)	NEGATIVE (PSF)
ZONE 4	21.8	24.0	13.1	14.4
ZONE 5	21.8	30.5	13.1	18.3
TRIBUTARY AREA 100 SF	POSITIVE (PSF)	NEGATIVE (PSF)	POSITIVE (PSF)	NEGATIVE (PSF)
ZONE 4	19.9	22.3	11.9	13.4
ZONE 5	19.9	25.3	11.9	15.2

5. SNOW LOAD (S)
7.80psf = Roof Snow Load 5psf = Ground Snow Load
Thermal Factor = **1.00** Snow Exposure Factor = **1.00** Snow Importance Factor = **0.80**

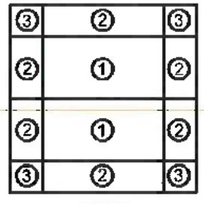
6. SEISMIC LOAD (E)
Equivalent Lateral Force Procedure
0.663 = 0.2s Short Period Spectral Response Acceleration S(s)
0.021= 1.0s Spectral Response Acceleration S(1)
Site Classification =**D**
Seismic Importance Factor =**1.00**
Seismic Design Category = **D**
Seismic Design Short Period Acceleration, Sds =0.561
Seismic Design 1 Sec Period Acceleration. SD1 =0.305

WIND ZONES



WALL

*3'-0" EDGE DISTANCE



ROOF

7. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING AND FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES. THE STRUCTURAL ENGINEER ASSUMES NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION.

8. THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS OF CONSTRUCTION AND ALL JOB SITE SAFETY.

9. VERIFY ALL DIMENSIONS PRIOR TO THE START OF CONSTRUCTION - DO NOT SCALE DRAWINGS.

10. CONCRETE

FOOTING AND FOUNDATION WALL	3,000 PSI @ 28 DAYS
SLAB ON GRADE	3,000 PSI @ 28 DAYS
ALL OTHER CIP CONCRETE	3,000 PSI @ 28 DAYS
CONCRETE REINFORCING STEEL	60 KSI, ASTM A615

11. FOUNDATION
1. ALLOWABLE SOIL BEARING CAPACITY = 2,000 PSF FOR STRIP FOOTINGS (PRESUMPTIVE)
2. GRADE AREAS IN ACCORDANCE WITH ELEVATIONS AND GRADES SHOWN ON THE SITE DRAWINGS AND AS REQUIRED FOR DRAINAGE.
3. ALL SLAB ON GRADE AREAS SHALL BE PROOF ROLLED. ALL SOFT SPOTS SHALL BE REMOVED AND REPLACED WITH COMPACTABLE FILL.
4. SLAB ON GRADE TO BE CONSTRUCTED ON A MINIMUM OF 6" OF COMPACTED GRANULAR FILL.
5. ALL FILL MATERIAL USED IN GRADING OPERATIONS SHALL CONSIST OF EARTH, WHICH IS FREE OF DEBRIS, BOULDERS OR ORGANIC MATERIAL. FILL SHALL BE PLACED IN MAXIMUM OF 12" LIFTS AND COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY.
6. ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR COMPACTED FILL HAVING A MINIMUM ALLOWABLE BEARING CAPACITY AS INDICATED ABOVE.
7. THE ENGINEER SHALL BE NOTIFIED IF ACTUAL FIELD CONDITIONS DO NOT MEET BEARING REQUIREMENTS OR, IF QUESTIONABLE SOIL CONDITIONS ARE DISCOVERED INCLUDING BUT NOT LIMITED TO PEAT AND OTHER HIGH ORGANIC SOILS.

12. STEEL

ANGLES, PLATES, AND CHANNELS	36 KSI, ASTM A36
SQUARE AND RECTANGULAR HSS	46 KSI, ASTM A500 GRADE B,
BOLTS @ RIDGE (PEAK):	(4) GRADE A5, 3/4"Ø A325 BOLTS W/ (8) FLAT & (4) LOCK WASHERS
BOLTS @ TRUSS TO POST CONN.	(4) GRADE A5, 3/4"Ø A325 BOLTS W/ (8) 2"x2"x1/8" FLAT & LOCK WASHERS
WELDING ELECTRODES	E70XX ALL WELDS TO BE FULL PENETRATION U.N.O.
COLD FORM ZEE's & EAVE STRUTS	55 KSI STEEL

13. WOOD
2x8 AND SMALLER SYP NO. 2 OR BETTER
MINIMUM DESIGN VALUES

Fb	1,500 PSI
Ft	825 PSI
Fv	175 PSI
Fc⊥	565 PSI
Fcll	1,600 PSI
E	1,600,000 PSI
Emin	580,000 PSI

6x6, 8X8 OR 10X10 WD POST TREATED SOUTHERN YELLOW PINE (SYP)
MINIMUM DESIGN VALUES

Fb	1,350 PSI
E	1,500,000 PSI

14. ROOF & WALL SHEATHING
ROOF METAL PANELS SHALL BE 26 GA.
x 3'-0" W/ 5 RIBS (RECOMMENDED)

MK WEBER
structural engineering
3200 W. 23RD STREET
PANAMA CITY, FL 32405
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SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 23022
3/23/21
ROBERT E. SEARCY

EOR: ROBERT E. SEARCY P.E.
STRUCTURAL ENGINEER
SOUTH CAROLINA P.E. # 23022

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Open 90'x192'x14' Polebarn for:
Storage Structures Project #1008
18 Sam's Pointe Road
Beaufort, SC 29907

REV.	DESCRIPTION	DATE

JOB NUMBER:	21007-3
DRAWN BY:	DAW
CHECKED BY:	MKW
PLOT DATE:	2/26/2021

SHEET TITLE
GENERAL NOTES

DRAWING NUMBER
S100

BLACKWATER TRUSS SYSTEMS
www.blackwatertruss.com
P. O. Box 588 Bagdad, FL 32530-0588
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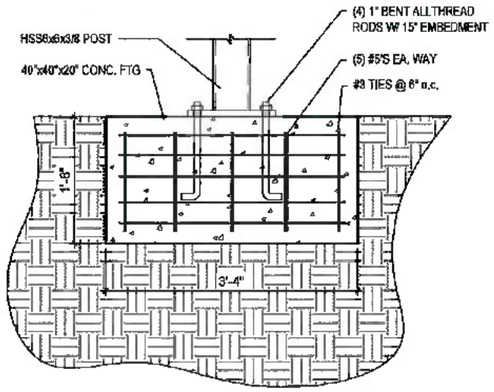
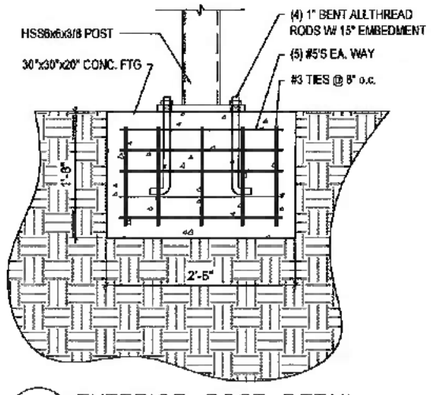
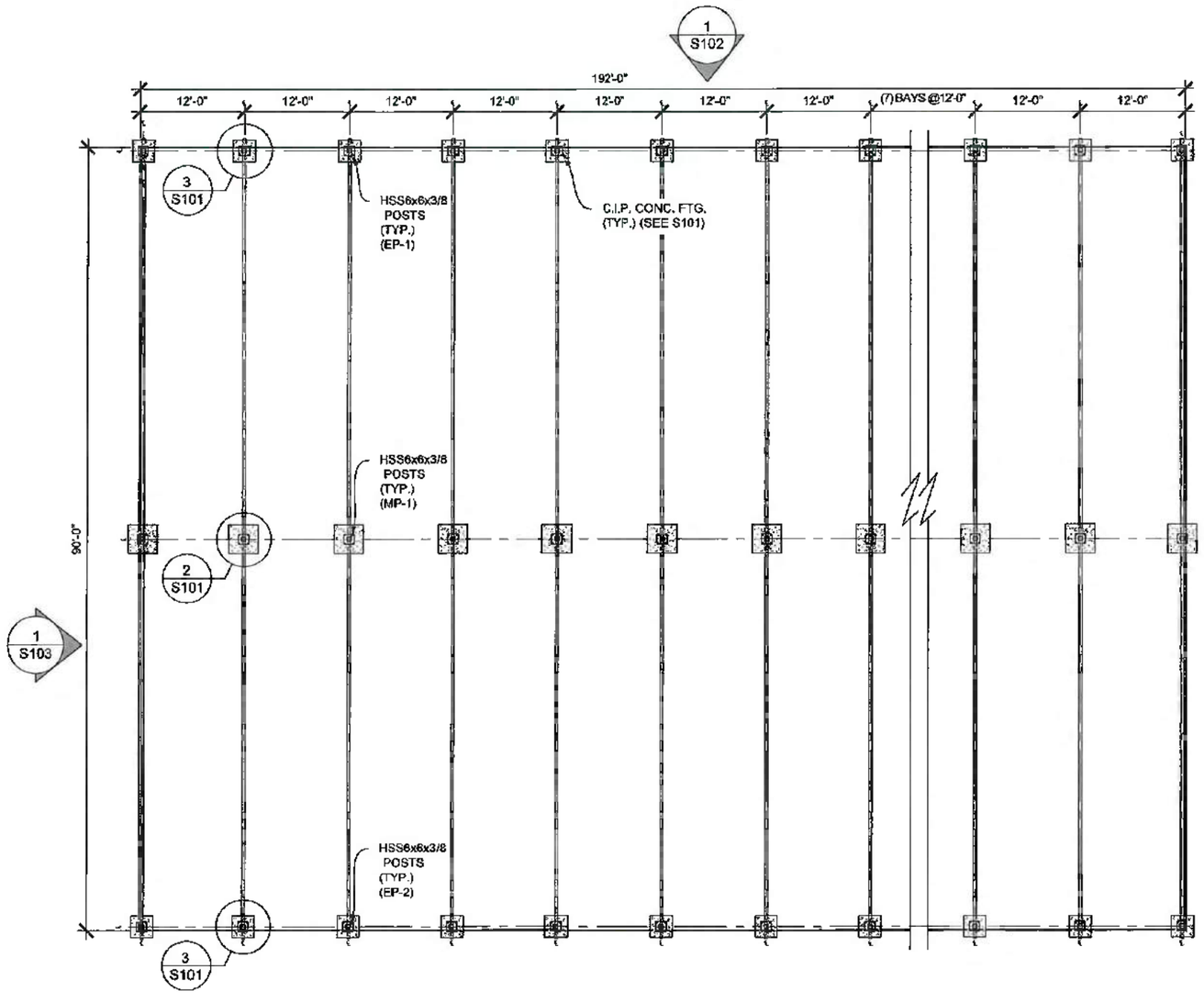


2 INTERIOR POST DETAIL
1/2" = 1'-0"



3 EXTERIOR POST DETAIL
1/2" = 1'-0"



1 FOUNDATION PLAN
1/16" = 1'-0"

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EOR: ROBERT E. SEARCY P.E.
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Storage Structures Project #1008
18 Sam's Pointe Road
Beaufort, SC 29907

REV.	DESCRIPTION	DATE

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DRAWN BY:	DAW
CHECKED BY:	MKW
PLOT DATE:	2/26/2021

BLACKWATER TRUSS SYSTEMS
www.blackwatertruss.com
P.O. Box 384
Bonifay FL 32425-0384
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Cell: (850)557-0107
tonia.blackwatertruss@yahoo.com

SHEET TITLE
FOUNDATION PLAN & DETAILS

DRAWING NUMBER
S101

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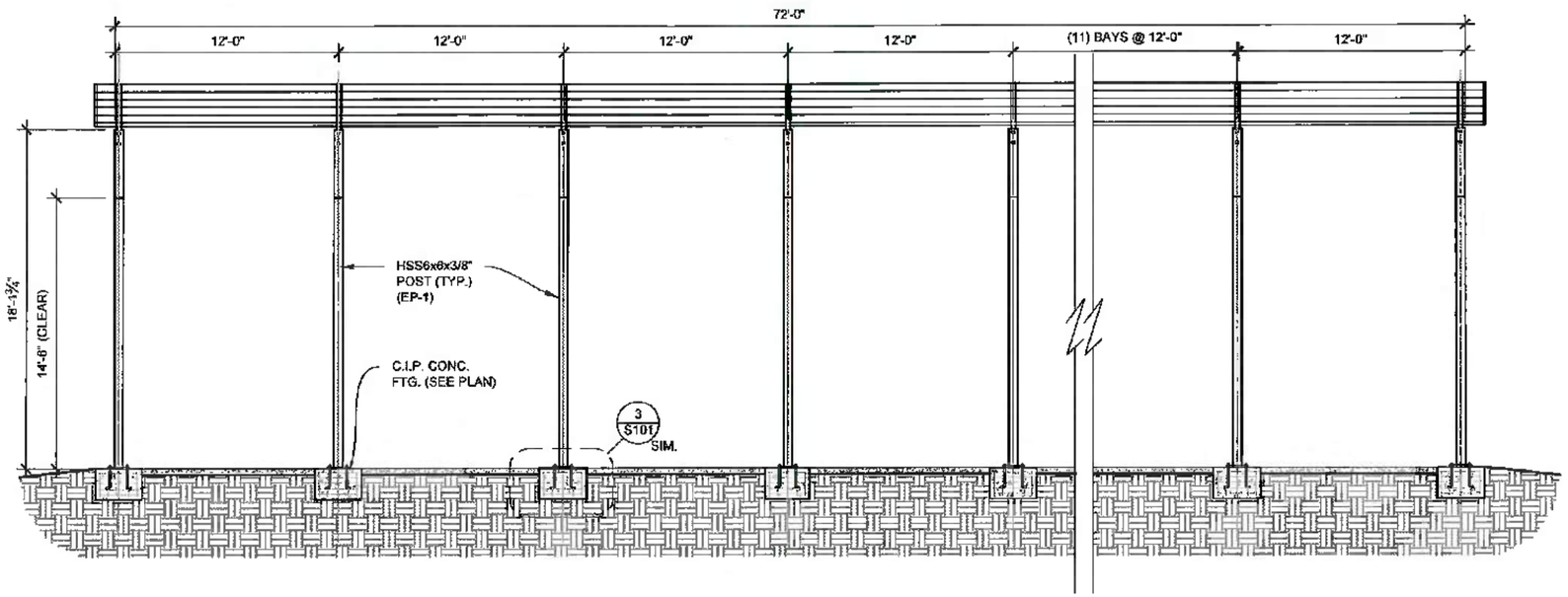

1 FRAMING ELEVATION
1/8" = 1'-0"

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BLACKWATER TRUSS SYSTEMS
www.blackwatertruss.com

SHEET TITLE
ELEVATION

DRAWING NUMBER
S102

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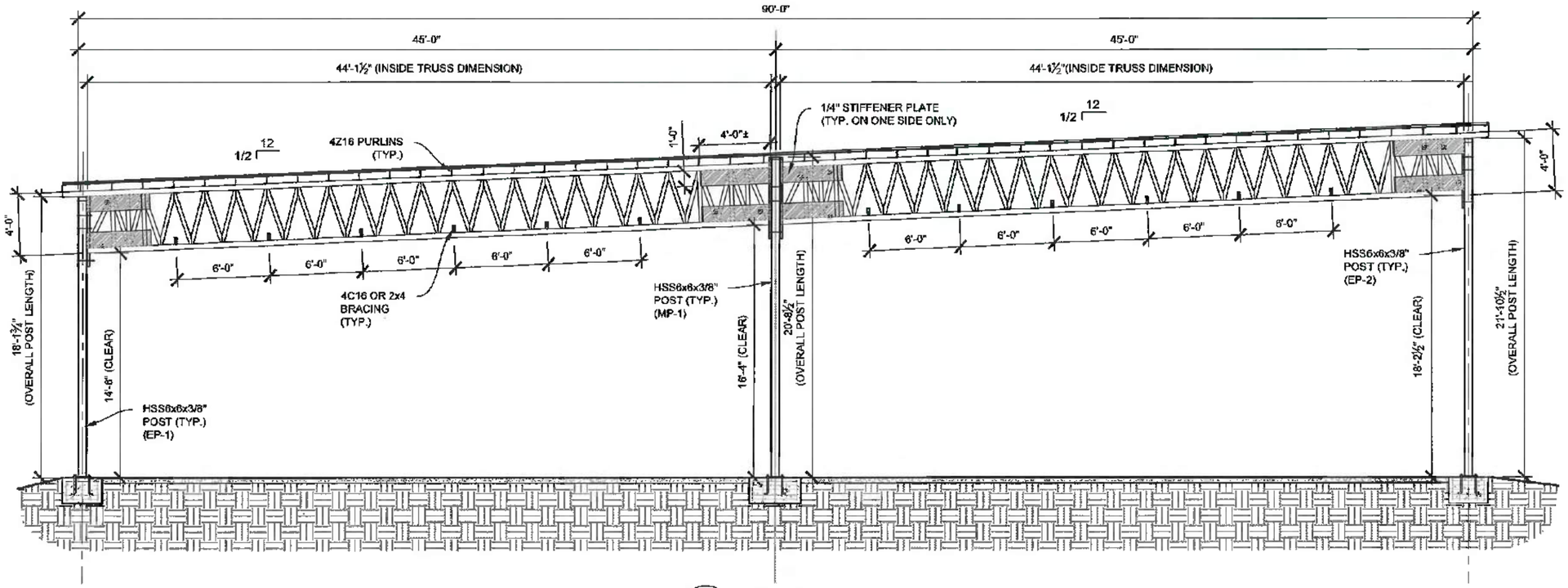
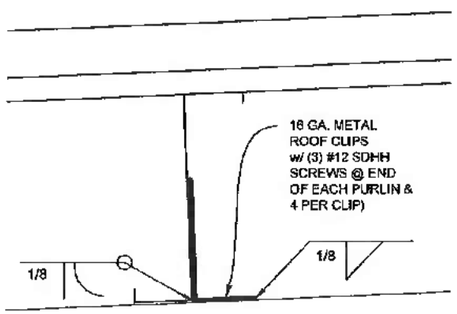
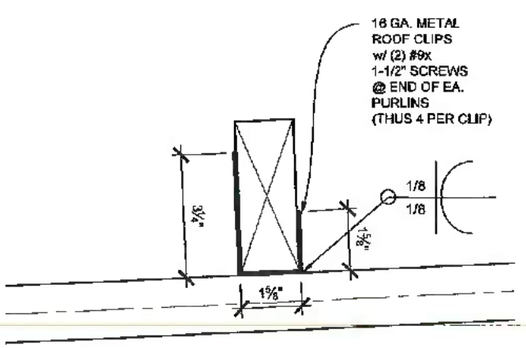
ALL HOLES IN CHORD & WEB ITEMS ARE 11/16" Ø, 1" FROM ENDS AND/OR CENTERED RELATIVE TO ENDS.
TOP CHORD MATERIAL SHALL BE HSS4x3x1/4" TUBE.
BOTTOM CHORD SHALL BE HSS4x3x1/4" TUBE.
DIAGONAL WEB MEMBERS SHALL BE HSS3x3x1/4" TUBE.
VERTICAL ENDS & RIDGE COLLAR-TIE SHALL BE L3x3x1/4"



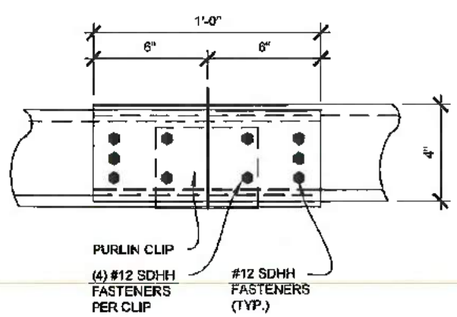
1 SECTION
1/8 = 1'-0"



4 PURLIN CLIP CONN. DETAIL
3" = 1'-0"



3 BRACE CONN. DETAIL
3" = 1'-0"



2 1'-0" LAP DETAIL
N.T.S.

MK WEBER
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SOUTH CAROLINA PROFESSIONAL ENGINEER No. 23022 ROBERT E. SEARCY 3/26

EOR: ROBERT E. SEARCY P.E.
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CHECKED BY:	MKW
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www.blackwatertruss.com

SHEET TITLE
SECTION & TRUSS DETAILS

DRAWING NUMBER
S103

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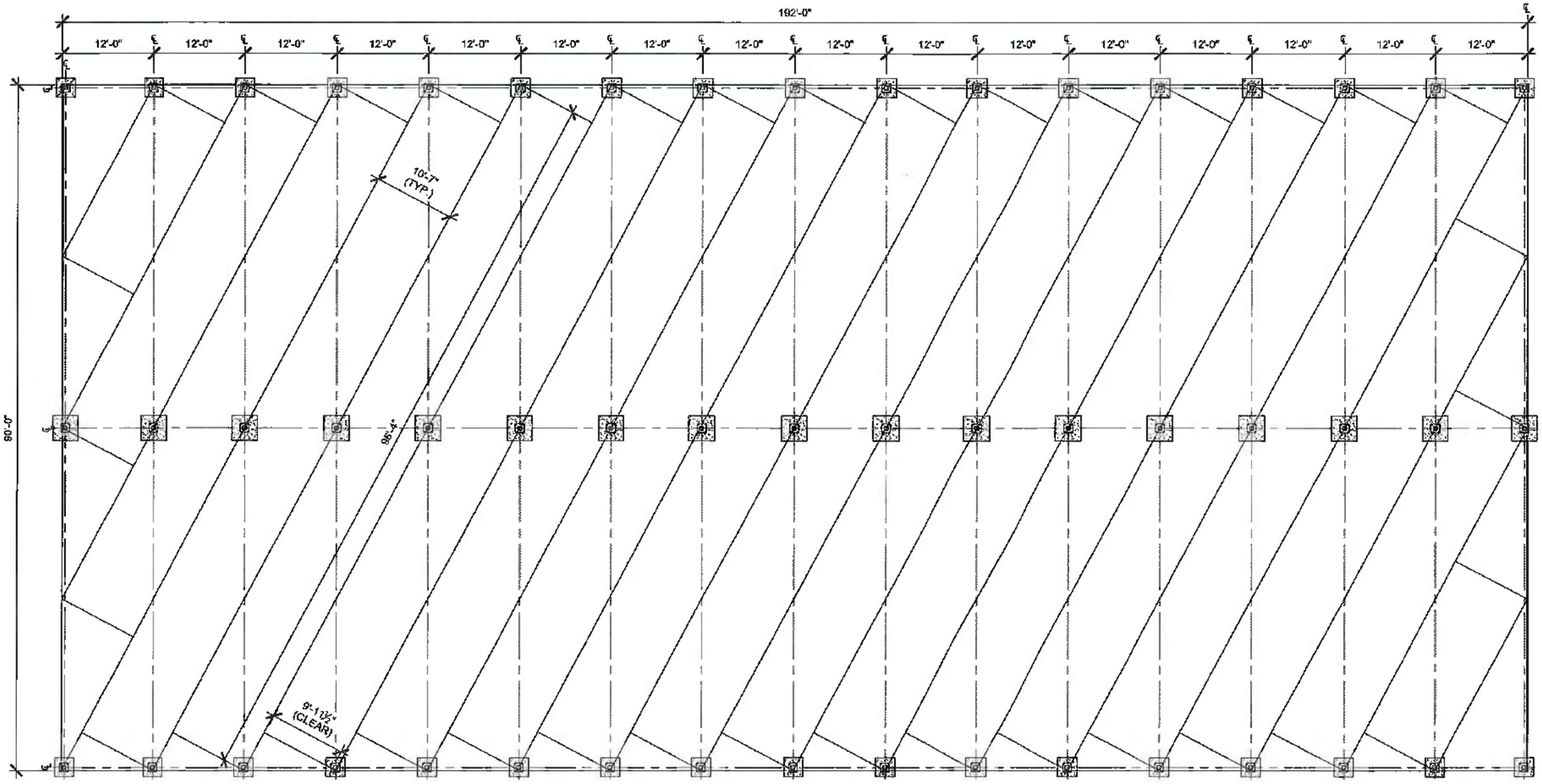

1 PARKING LAYOUT PLAN
1/16" = 1'-0"

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SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 23022
3/3/21
ROBERT E. SEARCY

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www.blackwatertruss.com
P. O. Box 338 Bonifay FL 32425-0338
Phone: (850)547-5404
Cell: (850)557-4997
Email: blackwatertruss@gtemail.net

SHEET TITLE
~~PARKING LAYOUT~~
PLAN

DRAWING NUMBER
S104

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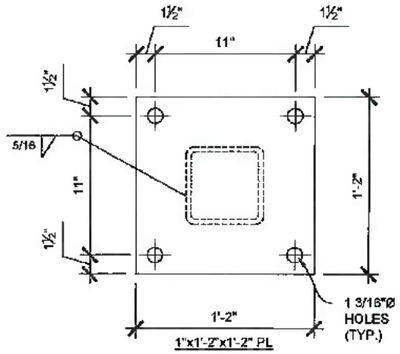
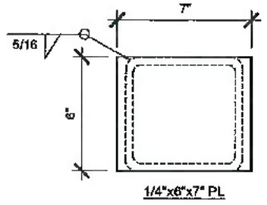
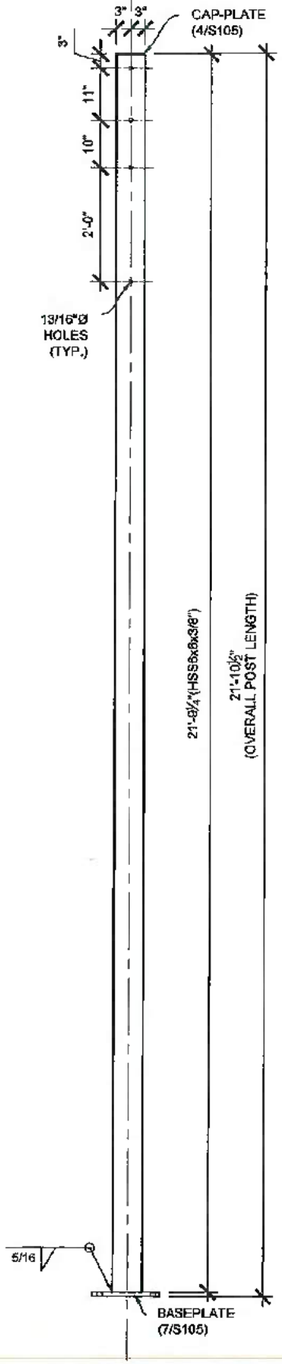


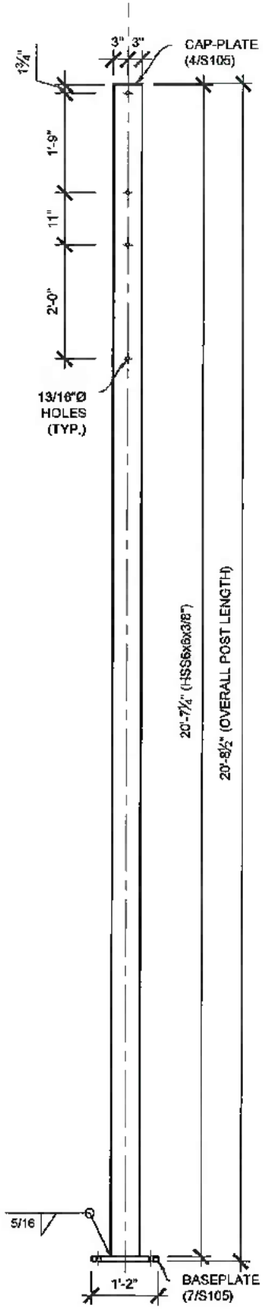
7 TYP BASEPLATE
1" = 1'-0"



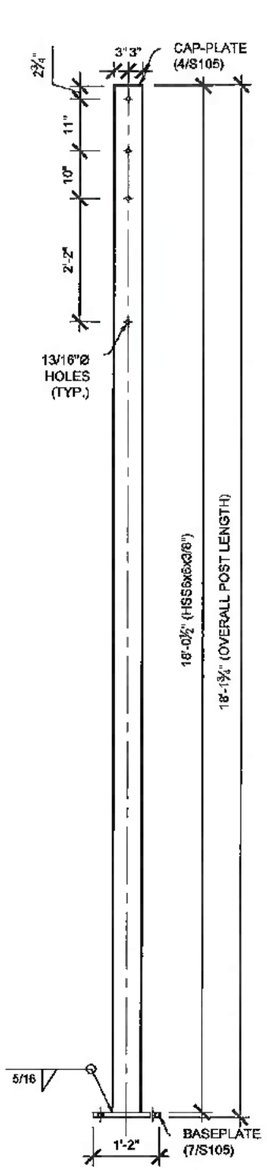
4 TYP CAP-PLATE
1 1/2" = 1'-0"



3 POST EP-2
1/4" = 1'-0"

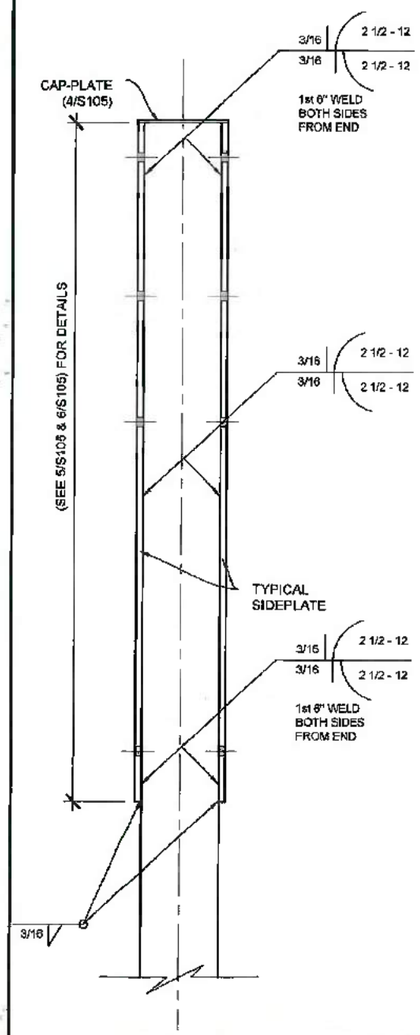


2 POST MP-1
3/8" = 1'-0"

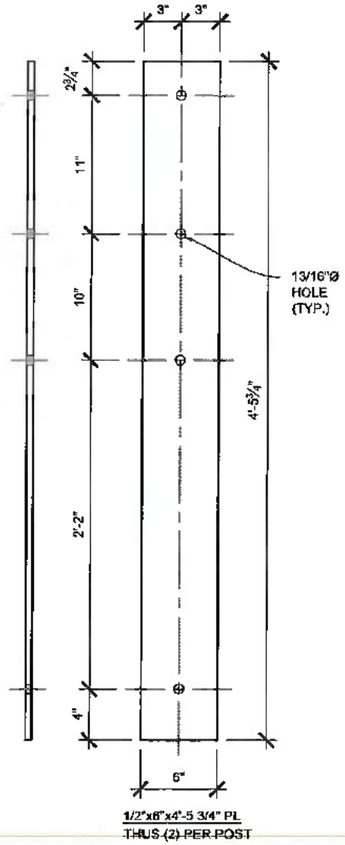


1 POST EP-1
3/8" = 1'-0"

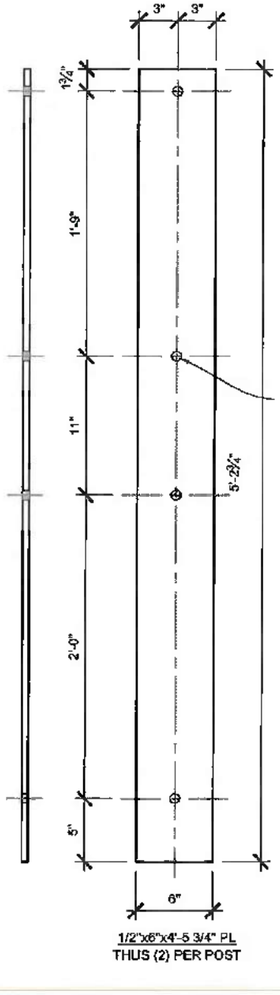
ALL WELDS TO BE FULL PENETRATION



8 SIDEPLATE DETAIL
1" = 1'-0"



6 POST EP-1 SIDEPLATE
1" = 1'-0"



5 POST MP-1 SIDEPLATE
1" = 1'-0"

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www.blackwatertruss.com
P.O. Box 486 Bagdad FL 32530-0186
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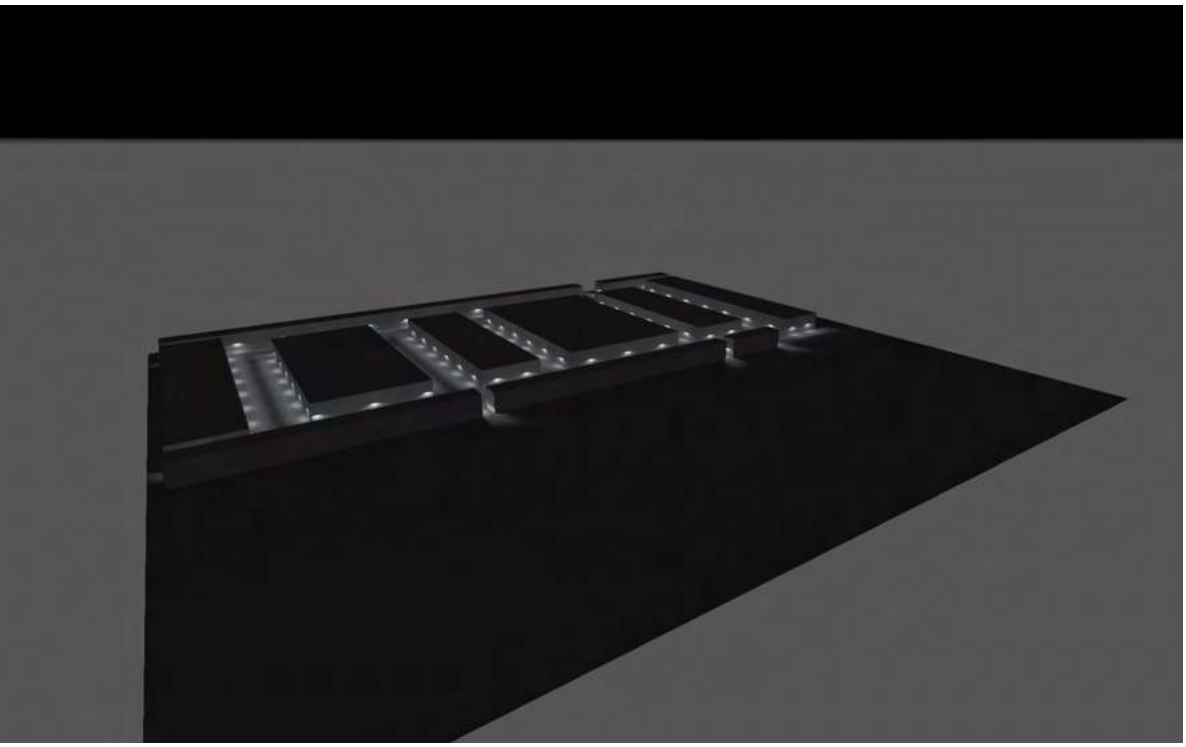
Cell: (850)554-6107
Email: blackwatertruss@yahoo.com

SHEET TITLE
SHOP DRAWINGS

DRAWING NUMBER
S105

Date 2/22/2021



AAA Storage - Beaufort SC

Created with DIALux

Contacts

Rafael "Stoney" Londono

Londono Engineering
P.O. Box 443
Beaufort, SC 29901

T (843) 263-1782
rlondono@londonoengineering.com

Outside Sales
Alexandra Carlsgaard

ALESCO | Next Generation Li...
115 Cone St.
Statesboro, GA 30458

T (912) 508-7721
alic@alesco.us

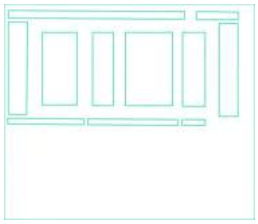
Site 1

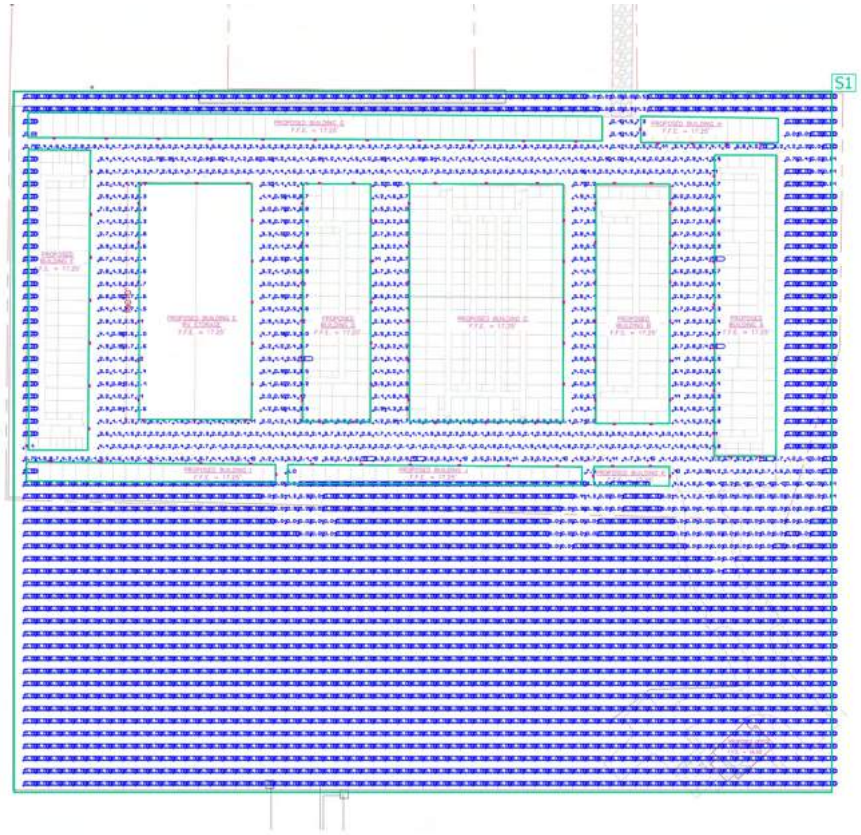
Luminaire list

Φ_{total}	P_{total}	Luminous efficacy
299337 lm	2147.0 W	139.4 lm/W

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy	Index
113	NLS Lighting LLC	NV-W-T3-16L-35-40K	LED LUMINAIRE	19.0 W	2649 lm	139.4 lm/W	WM

Calculation surface 1





Properties	Ē	E_{min}	E_{max}	Ē/E_{min}	E_{max}/E_{min}	Index
Calculation surface 1 Horizontal illuminance Height: 0.000 ft	0.93 fc	0.00 fc	13.2 fc	-	-	S1

Utilisation profile: DIALux preset, Default (Drive Aisles/Parking Areas)

A LINE by Liteline

FLX15

15 Watt LED Light Fixture

Track, Surface and Suspended

Job Information	
Project Name	
Type	
Location	
Quantity	
Date	



Description

15W FLEX series is a high performance LED luminaire with powerful output of 1480 lumens, 95 CRI and smooth sharp cylindrical body with no visible heat sink. Lower energy consumption with crisp, precise CCT, beam control with excellent CRI for various lighting applications, from residential to retail lighting.

Features

Body
Constructed of aluminum, the body features an aesthetically pleasing smooth cylindrical shape.

LED Characteristics
High powered 15W CREE® CXA1512 LED array maintains uniform intensity with a typical luminous flux up to 1350 lumens, with a typical CRI of 95.

Beam Spread
Fixture lens options available in 15°, 25°, 40° and 60° beam spread.

Mounting Options
Multiple mounting options for various applications. Available mounting options include direct mounting onto a 4" octagonal junction box for flushmount and pendant applications, direct mounting onto a 3½" or 4" octagonal junction box for monopoint applications, and 1- or 2-circuit track connectors for track applications (compatible with A-Line, 2- and 3-circuit Powergear, H-style, L-style and Liteline tracks).

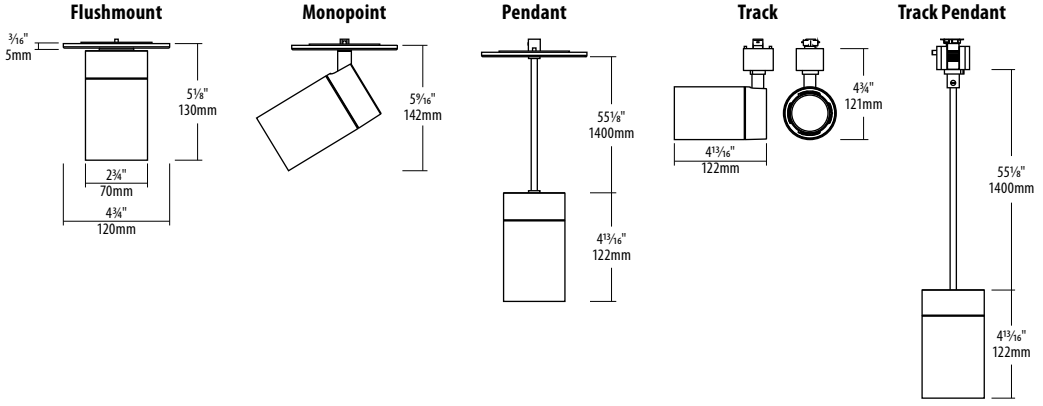
Operating Conditions
For indoor use only.

Quickship Made-To-Order
Made-To-Order products ship within seven business days of an order being released.

CCT	LUMENS
2700 K	1,220
3000 K	1,280
3500 K	1,340
4000 K	1,480

SPECIFICATION	
Approved Location	Dry / Indoor
Beam Angle	15° / 25° / 40° / 60°
CCT	2700 K / 3000 K / 3500 K / 4000 K
Certification	cETLus
Class II	Yes
Color	BK / SL / WH
CRI	95
Dimming	Yes
Input	100-135V AC, 60Hz
Lumens	Up to 1480
Lumens per Watt	Up to 98
Power Factor	0.95
Projected Life	70% @ 50,000 hrs
Warranty	5 years
Wattage	15W

Technical Drawings



Ordering Guide

FLX15 - [Connector Type[1]] - [Color Temperature] - [Beam Angle] - [Mounting Type] - [Finish] - [Cord Length[1,2]] - [Rod Length[1,2]]

Connector Type[1]	Color Temperature	Beam Angle	Mounting Type	Finish	Cord Length[1,2]	Rod Length[1,2]
BLANK : No connector	**27 :** 2700 K	**15 :** 15°	**F :** Flushmount	**BK :** Black	**Blank :** Standard 5'	**Blank :** None
A : A-Line	**30 :** 3000 K	**25 :** 25°	**M :** Monopoint	**SL :** Silver	**120 :** 10' / 120"	**12 :** 12"
H : H-style	**35 :** 3500 K	**40 :** 40°	**P :** Pendant	**WH :** White		**24 :** 24"
L : L-style	**40 :** 4000 K	**60 :** 60°	**T :** Track			**36 :** 36"
LL : Liteline			**TP :** Track Pendant			**48 :** 48"
P2 : 2-Circuit Powergear						
P3 : 3-Circuit Powergear						

QUICKSHIP 7-DAY
Highlighted option denotes Quickship.

Notes:
[1] Available for Mounting Type "T" and "TP" only. [2] Select option from Cord Length or Rod Length for use with Mounting Type "P" or "TP". Do not combine both options.
Quickship option is available on orders of 100 pieces or less, and will ship within 7 business days. Options must be selected from Quickship section to qualify.
Accessories are sold separately. For additional options please consult your Liteline representative.
Due to our continued efforts to improve our products, product specifications are subject to change without notice.

Liteline Corporation
Telephone 416.996.1856 1.866.730.7704
Fax 905.709.5255 1.888.738.9736

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LITELINE.COM

Accessories



FLX15-BD-××[1]
Barn doors accessory to facilitate shaping of the light beam. Available in Black (BK), Silver (SL) and White (WH).



FLX15-HC-××
Honeycomb louver to reduce glare from light source. Available in Black (BK), Silver (SL) and White (WH).



FLX15-SN-××
Snoot to reduce glare and focuses projected light from light source. Available in Black (BK), Silver (SL) and White (WH).



FLX15-SNO-××[1]
Oval snoot to reduce glare and shape the coverage of the illuminated area. Available in Black (BK), Silver (SL) and White (WH).



FLX15-EXT-××[2]
4" Extender. Available in Black (BK), Silver (SL) and White (WH).

FLX15-LINEAR-LENS
Linear spread lens.



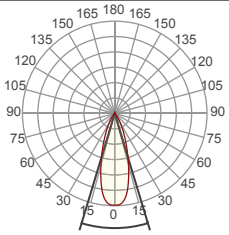
FLX15-SL-LENS
Soft lens.

Notes:
[1] Not recommended for use with Mounting Options “F”, “P” and “TP”. [2] Not recommended for use with Mounting Options “M” and “T”.

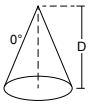
Photometry

FLX15-3040 : FLEX fixture, 15W, 3000 K, 40° beam spread.

Polar Candela Distribution



Beam Details



D	Lux	FC	L	W
4'	1829	170	2.4'	2.4'
8'	457	42	4.8'	4.8'
12'	203	19	7.2'	7.2'
16'	114	11	9.7'	9.7'
20'	73	7	12.1'	12.1'

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	463.0	37.70%
0-40	673.0	54.80%
0-60	956.0	77.85%
60-90	147.0	11.97%
70-100	93.4	7.61%
90-120	53.1	4.32%
0-90	1103.0	89.82%
90-180	81.7	6.65%
0-180	1228.0	100.00%

NV-W

HIGH PERFORMANCE FULL CUT OFF WALL PACK

FORM AND FUNCTION
- Sleek, low profile housing
- Spec grade performance
- Engineered for optimum thermal management
- L70 480,000
- Reduces energy consumption and costs up to 65%

CONSTRUCTION
- Die Cast Aluminum
- Internal cooling fins, Finite Element Analysis (FEA) designed
- Corrosion resistant external hardware
- One-piece silicone gasket ensures IP-65 seal for electronics compartment
- Two-piece silicone Micro Optic system ensures IP-67 level seal around each PCB
- Silicone Micro Optics: Recessed, full cutoff, vandal resistant and non-yellowing
- Dark Sky Compliant

FINISH
- 3-5 mils electrostatic powder coat.
- NLS' standard high-quality finishes prevent corrosion protects against and extreme environmental conditions

WARRANTY
Five-year standard warranty



LISTINGS
- Certified to UL 1598
- UL 8750
- CSA C22.2 No. 250.0
- DesignLights Consortium® (DLC)
- DesignLights Consortium Premium® (DLCP)
- IP65/ IP67 Rated

LED WATTAGE CHART

	16L	32L
350 milliamps	19w	-
530 milliamps	29w	-
700 milliamps	37w	71w
1050 milliamps	56w	-

Project Name:

Type:

Cat #	Light Dist.	No. of LEDs	Milliamp	Kelvin	Volts	Mounting	Color	Options
NV-W **(NV-W)**	Type 2 **(T2)** Type 3 **(T3)** Type 4 **(T4)**	16 **(16L)** 32 **(32L)** **700mA only*	350 **(35)** 530 **(53)** 700 **(7)** 1050 **(1)**	3000K **(30K)** 4000K **(40K)** 5000K **(50K)**	120-277 **(UNV)** 347-480 **(HV)**	Wall Mount **(WM)**	Bronze **(BRZ)** White **(WHT)** Silver **(SVR)** Black **(BLK)** Graphite **(GPH)** Grey **(GRY)** Custom **(CS)**	Marine Grade Finish **(MGF)** Dimming Control with Motion Sensor ***8' Heights and Below* (DC8)** ***9'-20' Heights* (DC20)** ***21'-40' Heights* (DC40)** Surge Protector **(10K)** Emergency Battery 4W **(EM4)** ** 516 - 564 Lumens, Certified CA Title 20.* Emergency Battery 8W **(EM8)** ** 1032 - 1128 Lumens, Certified CA Title 20.* Emergency Battery 16W **(EM16)** ** 2064 - 2256 Lumens, Certified CA Title 20.* Emergency Cold Pk Battery **(EMCP)** **14 Watt* ** 1806 - 1974 Lumens, Certified CA Title 20.* Housing Extension **(HE)** **To match EM Extension Box* Button Photo Cell **(PC)** **Universal Voltage 120-277* Nema 7-Pin Receptacle **(PE7)** **Requires Deep Back Box* Vanity Plate 16" SQ **(VP)**

ELECTRICAL

- 120-277 Volts (UNV)
- 0-10V dimming driver by Philips Advance
- Driver power factor at maximum load is ≥ .95, THD maximum load is 15%
- All internal wiring UL certified for 600 VAC and 105°C
- All drivers, controls, and sensors housed in enclosed IP-65 compartment
- Lumileds Luxeon MX LED's
- CRI >70 MIN.
- Color temperatures: 3000K, 4000K, 5000K

OPTIONS

- **MARINE GRADE FINISH (MGF)**—A multi-step process creating protective finishing coat against harsh environments.
  - Chemically washed in a 5 stage cleaning system.
  - Pre-baked
  - Powder coated 3-5 mils of Zinc Rich Super Durable Polyester Primer.
  - 1-2 feet inside pole coverage top and bottom.
  - Oven Baked.
  - Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.

- **VANITY PLATE (VP)**—The Vanity Plate was designed to cover the unsightly remains on a wall where a larger HID wallpack was removed. The Vanity Plate will be painted to match the finish of the NV-W, custom finishes are available, please consult factory. The standard Vanity Plate is 16" x 16".

CONTROLS

- **DIMMING CONTROL (DCX)**—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
  - All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
  - DC8 mounting heights 8 feet and below
  - DC20 mounting heights 9-20 feet
  - DC40 mounting heights 21-40 feet.
  - Includes 5 dimming event cycles, 0-10V dimming with motion sensing, reprogrammable in the field.

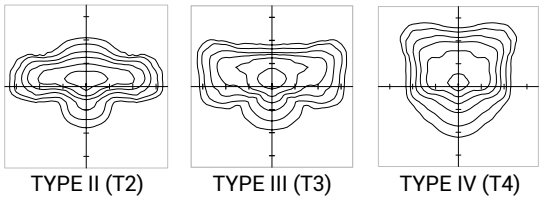
- **NEMA 7-PIN RECEPTACLE (PE7)**—An ANSI C136.41-2013 receptacle provides electrical and mechanical interconnection between photo control cell and luminaire. Dimming receptacle available two or four dimming contacts supports 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), providing reliable power interconnect.

- **EMERGENCY BATTERY OPERATION**— The emergency battery backup is integral to the NV-W. All emergency backup configurations include a standalone secondary driver with integral relay to detect power loss. This meets NFPA 70/NEC 2008. The emergency battery will power the NV-W for 90 minutes once power is lost. Emergency battery pack are of NiCAD batteries. (EMCP) Emergency Cold Pack Batteries are rated for -20°C to 50°C.

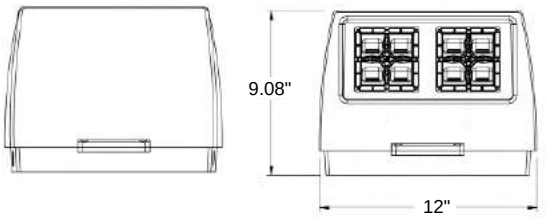
OPTICS

Silicone optics high photothermal stability and light output provides higher powered LEDs with minimized lumen depreciation LED life. UV and thermal stability with scratch resistance increases exterior application durability.

- IES Types



TYPE II (T2) TYPE III (T3) TYPE IV (T4)

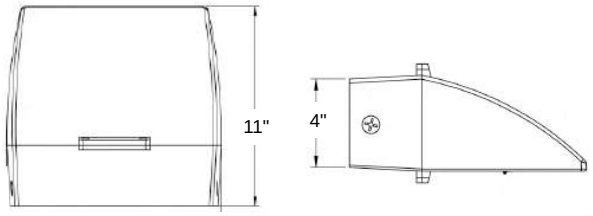


TOP VIEW BOTTOM VIEW



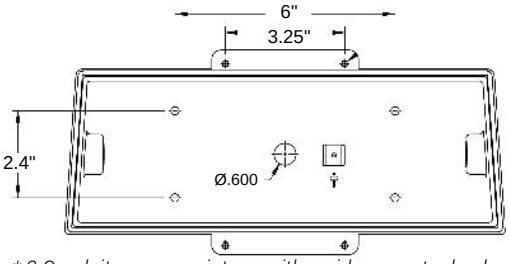
Weight: 7.2 lbs

EMERGENCY BATTERY AND 7-PIN EXTENSION BOX DIMENSIONS



TOP VIEW

MOUNTING HOLE

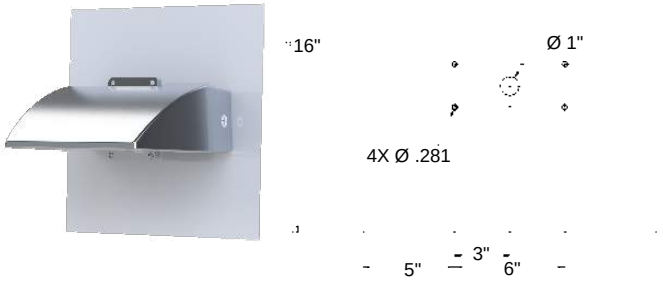


** 3 Conduit access points on either side or center back.*

MOTION SENSOR PLACEMENT



VANITY PLATE (VP)



LUMENS							
PART NUMBER	**T2**	**LM/W**	**T3**	**LM/W**	**T4**	**LM/W**	**W**
NV-W 16L-35-30K	2470	130	2499	132	2470	130	19
NV-W 16L-35-40K	2618	138	2648	139	2618	138	19
NV-W 16L-35-50K	2618	138	2648	139	2618	138	19
NV-W 16L-53-30K	3544	122	3579	123	3544	122	29
NV-W 16L-53-40K	3756	130	3794	131	3756	130	29
NV-W 16L-53-50K	3756	130	3794	131	3756	130	29
NV-W 16L-7-30K	4388	119	4432	120	4388	119	37
NV-W 16L-7-40K	4651	126	4698	127	4651	126	37
NV-W 16L-7-50K	4651	126	4698	127	4651	126	37
NV-W 16L-1-30K	5970	107	6029	108	5970	107	56
NV-W 16L-1-40K	6328	113	6391	114	6328	113	56
NV-W 16L-1-50K	6328	113	6391	114	6328	113	56
NV-W 32L-7-30K	9010	127	9100	128	9010	127	71
NV-W 32L-7-40K	9550	135	9646	136	9550	135	71
NV-W 32L-7-50K	9550	135	9646	136	9550	135	71

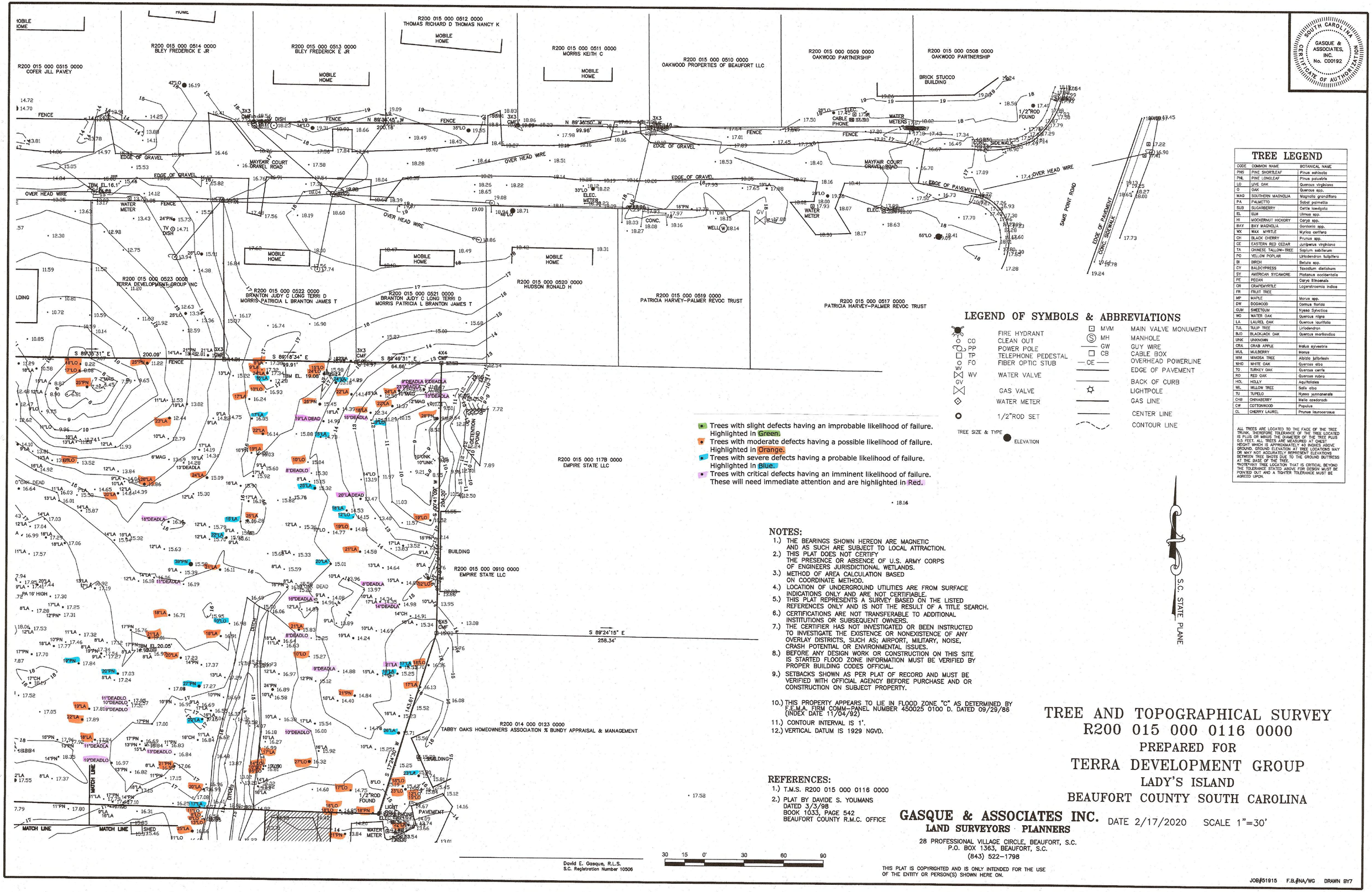
BUG RATINGS				
PART NUMBER	**T2**	**T3**	**T4**	**W**
NV-W-16L-35-30K	B1-U0-G1	B1-U0-G1	B1-U0-G1	19
NV-W-16L-35-40K	B1-U0-G1	B1-U0-G1	B1-U0-G1	19
NV-W-16L-35-50K	B1-U0-G1	B1-U0-G1	B1-U0-G1	19
NV-W-16L-53-30K	B1-U0-G1	B1-U0-G1	B1-U0-G1	29
NV-W-16L-53-40K	B1-U0-G1	B1-U0-G1	B1-U0-G1	29
NV-W-16L-53-50K	B1-U0-G1	B1-U0-G1	B1-U0-G1	29
NV-W-16L-7-30K	B1-U0-G1	B1-U0-G1	B1-U0-G1	37
NV-W-16L-7-40K	B1-U0-G1	B1-U0-G1	B1-U0-G1	37
NV-W-16L-7-50K	B1-U0-G1	B1-U0-G1	B1-U0-G1	37
NV-W-16L-1-30K	B1-U0-G1	B2-U0-G2	B1-U0-G2	56
NV-W-16L-1-40K	B1-U0-G1	B2-U0-G2	B2-U0-G2	56
NV-W-16L-1-50K	B1-U0-G1	B2-U0-G2	B2-U0-G2	56
NV-W-32L-7-30K	B2-U0-G2	B2-U0-G2	B2-U0-G2	71
NV-W-32L-7-40K	B2-U0-G2	B2-U0-G2	B2-U0-G2	71
NV-W-32L-7-50K	B2-U0-G2	B2-U0-G2	B2-U0-G2	71

L70 DATA

TEMP.	NV-W
	L70 (16L-1050mA)
60.2°C	483,000

TEMP.	NV-W
	L70 (32L-700mA)
63°C	483,000

EMERGENCY BATTERY BACK-UP LUMENS							
PART NUMBER	**T2**	**LM/W**	**T3**	**LM/W**	**T4**	**LM/W**	**W**
EM4-30K	520	130	524	131	516	129	4
EM4-40K	544	136	548	137	540	135	4
EM4-50K	560	140	564	141	556	139	4
EM8-30K	1040	130	1048	131	1032	129	8
EM8-40K	1088	136	1096	137	1080	135	8
EM8-50K	1120	140	1128	141	1112	139	8
EM16-30K	2080	130	2096	131	2064	129	16
EM16-40K	2176	136	2192	137	2160	135	16
EM16-50K	2240	140	2256	141	2224	139	16
EMCP-30K	1820	130	1834	131	1806	129	14
EMCP-40K	1904	136	1918	137	1890	135	14
EMCP-50K	1960	140	1974	141	1946	139	14



- Trees with slight defects having an improbable likelihood of failure. Highlighted in Green.
- Trees with moderate defects having a possible likelihood of failure. Highlighted in Orange.
- Trees with severe defects having a probable likelihood of failure. Highlighted in Blue.
- Trees with critical defects having an imminent likelihood of failure. These will need immediate attention and are highlighted in Red.

TREE LEGEND

CODE	COMMON NAME	BOTANICAL NAME
PINS	PINE SHORTLEAF	Pinus echinata
PNL	PINE LONGLEAF	Pinus palustris
LO	LIVE OAK	Quercus virginiana
O	OAK	Quercus spp.
MAG	SOUTHERN MAGNOLIA	Magnolia grandiflora
PA	PALMETTO	Sabal palmetto
SUB	SUGARBERRY	Celtis laevigata
EL	ELM	Ulmus spp.
HI	MOCKERNUT HICKORY	Carya spp.
BAY	BAY MAGNOLIA	Gordonia spp.
WX	WAX MYRTLE	Myrica cerifera
CH	BLACK CHERRY	Prunus spp.
CE	EASTERN RED CEDAR	Juniperus virginiana
TA	CHINESE TALLOW-TREE	Sapium sebiferum
PO	YELLOW POPLAR	Liriodendron tulipifera
BI	BIRCH	Betula spp.
CY	BALDCYPRESS	Taxodium distichum
SY	AMERICAN SYCAMORE	Platanus occidentalis
PE	PECAN	Carya illinoensis
CR	CRAPEMYRTLE	Lagerstroemia indica
FR	FRUIT TREE	
MP	MAPLE	Morus spp.
DW	DOGWOOD	Cornus florida
GUM	SWEETGUM	Nyssa Sylvatica
WO	WATER OAK	Quercus nigra
LA	LAUREL OAK	Quercus laurifolia
TUL	TULIP TREE	Liriodendron
BJO	BLACKJACK OAK	Quercus marilandica
UNK	UNKNOWN	
CRA	CRAB APPLE	Malus sylvestris
MUL	MULBERRY	Morus
MIM	MIMOSA TREE	Albizia julibrissin
WHO	WHITE OAK	Quercus alba
TO	TURKEY OAK	Quercus cerris
RO	RED OAK	Quercus rubra
HOL	HOLLY	Aquifoliales
WL	WILLOW TREE	Salix alba
TU	TUPELO	Nyssa sunnanensis
CHB	CHINABERRY	Melia azedarach
CW	COTTONWOOD	Populus
CL	CHERRY LAUREL	Prunus laurocerasus

ALL TREES ARE LOCATED TO THE FACE OF THE TREE TRUNK, THEREFORE TOLERANCE OF THE TREE LOCATED IS PLUS OR MINUS THE DIAMETER OF THE TREE PLUS 0.5 FEET. ALL TREES ARE MEASURED AT CHEST HEIGHT WHICH IS APPROXIMATELY 40 INCHES ABOVE GROUND. GROUND ELEVATION AT TREE LOCATIONS MAY OR MAY NOT ACCURATELY REPRESENT ELEVATIONS BETWEEN TREE SHOTS DUE TO THE GROUND BUTTRESS AT THE BASE OF THE TREE.
*NOTE:ANY TREE LOCATION THAT IS CRITICAL AND WITHIN THE TOLERANCE STATED ABOVE FOR DESIGN MUST BE POINTED OUT AND A TIGHTER TOLERANCE MUST BE AGREED UPON.

LEGEND OF SYMBOLS & ABBREVIATIONS

- FIRE HYDRANT
- CO CLEAN OUT
- PP POWER POLE
- TP TELEPHONE PEDESTAL
- FO FIBER OPTIC STUB
- WV WATER VALVE
- GV GAS VALVE
- WATER METER
- 1/2"ROD SET
- TREE SIZE & TYPE / ELEVATION
- MVM MAIN VALVE MONUMENT
- MH MANHOLE
- GW GUY WIRE
- CB CABLE BOX
- OE OVERHEAD POWERLINE
- EDGE OF PAVEMENT
- BACK OF CURB
- LIGHTPOLE
- GAS LINE
- CENTER LINE
- CONTOUR LINE

NOTES:

1.) THE BEARINGS SHOWN HEREON ARE MAGNETIC AND AS SUCH ARE SUBJECT TO LOCAL ATTRACTION.
2.) THIS PLAT DOES NOT CERTIFY THE PRESSENCE OR ABSENCE OF U.S. ARMY CORPS OF ENGINEERS JURISDICTIONAL WETLANDS.
3.) METHOD OF AREA CALCULATION BASED ON COORDINATE METHOD.
4.) LOCATION OF UNDERGROUND UTILITIES ARE FROM SURFACE INDICATIONS ONLY AND ARE NOT CERTIFIABLE.
5.) THIS PLAT REPRESENTS A SURVEY BASED ON THE LISTED REFERENCES ONLY AND IS NOT THE RESULT OF A TITLE SEARCH.
6.) CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS.
7.) THE CERTIFIER HAS NOT INVESTIGATED OR BEEN INSTRUCTED TO INVESTIGATE THE EXISTENCE OR NONEXISTENCE OF ANY OVERLAY DISTRICTS, SUCH AS; AIRPORT, MILITARY, NOISE, CRASH POTENTIAL OR ENVIRONMENTAL ISSUES.
8.) BEFORE ANY DESIGN WORK OR CONSTRUCTION ON THIS SITE IS STARTED FLOOD ZONE INFORMATION MUST BE VERIFIED BY PROPER BUILDING CODES OFFICIAL.
9.) SETBACKS SHOWN AS PER PLAT OF RECORD AND MUST BE VERIFIED WITH OFFICIAL AGENCY BEFORE PURCHASE AND OR CONSTRUCTION ON SUBJECT PROPERTY.
10.) THIS PROPERTY APPEARS TO LIE IN FLOOD ZONE "C" AS DETERMINED BY F.E.M.A. FIRM COMM-PANEL NUMBER 450025 0100 D. DATED 09/29/86 (INDEX DATE 11/04/92)
11.) CONTOUR INTERVAL IS 1'.
12.) VERTICAL DATUM IS 1929 NGVD.

REFERENCES:

1.) T.M.S. R200 015 000 0116 0000
2.) PLAT BY DAVIDE S. YOUMANS DATED 3/3/98 BOOK 1033, PAGE 542 BEAUFORT COUNTY R.M.C. OFFICE

David E. Gasque, R.L.S.
S.C. Registration Number 10506

30 15 0' 30 60 90

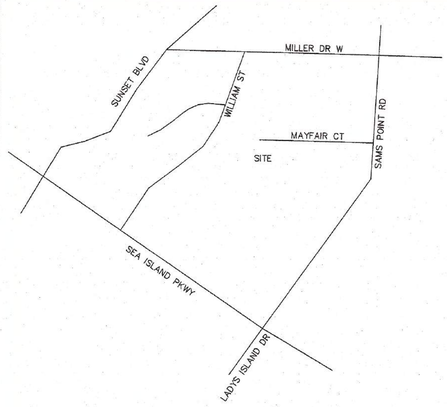
TREE AND TOPOGRAPHICAL SURVEY
R200 015 000 0116 0000
PREPARED FOR
TERRA DEVELOPMENT GROUP
LADY'S ISLAND
BEAUFORT COUNTY SOUTH CAROLINA

GASQUE & ASSOCIATES INC. DATE 2/17/2020 SCALE 1"=30'
LAND SURVEYORS · PLANNERS
28 PROFESSIONAL VILLAGE CIRCLE, BEAUFORT, S.C.
P.O. BOX 1363, BEAUFORT, S.C.
(843) 522-1798

THIS PLAT IS COPYRIGHTED AND IS ONLY INTENDED FOR THE USE OF THE ENTITY OR PERSON(S) SHOWN HERE ON.

JOB#51915 F.B.#NA/WG DRAWN BY7

SOUTH CAROLINA
GASQUE & ASSOCIATES, INC. No. C00192
CERTIFICATE OF AUTHORIZATION



LOCATION MAP (N.T.S.)

R123 015 000 1003 0000
LADY BEAUFORT LLC

R200 014 000 0123 0000
TABBY OAKS HOMEOWNERS ASSOCIATION % BUNDY APPRAISAL & MANAGEMENT

R200 014 000 0123 0000
TABBY OAKS HOMEOWNERS ASSOCIATION % BUNDY APPRAISAL & MANAGEMENT

GASQUE & ASSOCIATES, INC.
SOUTH CAROLINA
CERTIFICATE OF AUTHORIZATION
No. C00192

TREE LEGEND

CODE	COMMON NAME	BOTANICAL NAME
PINS	PINE SHORTLEAF	Pinus echinata
PIN.	PINE LONGLEAF	Pinus palustris
LO	LIVE OAK	Quercus virginiana
O	OAK	Quercus spp.
MAG	SOUTHERN MAGNOLIA	Magnolia grandiflora
P.A	PALMETTO	Sabal palmetto
SUB	SUGARBERRY	Celtis laevigata
EL	ELM	Ulmus spp.
HI	MOCKERNUT HICKORY	Carya spp.
BAY	BAY MAGNOLIA	Gordonia spp.
WX	WAX MYRTLE	Myrica cerifera
CH	BLACK CHERRY	Prunus spp.
CE	EASTERN RED CEDAR	Juniperus virginiana
TA	CHINESE TALLOW-TREE	Sapium sebiferum
PO	YELLOW POPLAR	Liriodendron tulipifera
BI	BIRCH	Betula spp.
CY	BALDCYPRESS	Taxodium distichum
SY	AMERICAN SYCAMORE	Platanus occidentalis
PE	PECAN	Carya illinoensis
CR	CRAPEMYRTLE	Lagerstroemia indica
FR	FRUIT TREE	
MP	MAPLE	Morus spp.
DW	DOGWOOD	Cornus florida
GUM	SWEETGUM	Nyssa Sylvatica
WO	WATER OAK	Quercus nigra
LA	LAUREL OAK	Quercus laurifolia
TUL	TULIP TREE	Liriodendron
BJO	BLACKJACK OAK	Quercus marilandica
UNK	UNKNOWN	
CRA	CRAB APPLE	Malus sylvestris
MUL	MULBERRY	Morus
MIM	MIMOSA TREE	Albizia julibrissin
WHO	WHITE OAK	Quercus alba
TO	TURKEY OAK	Quercus cerris
RO	RED OAK	Quercus rubra
HOL	HOLLY	Aquifoliales
WL	WILLOW TREE	Salix alba
TU	TUPELO	Nyssa yunnanensis
CHB	CHINABERRY	Melia azedarach
CW	COTTONWOOD	Populus
CL	CHERRY LAUREL	Prunus laurocerasus

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NOTE ANY TREE LOCATION THAT IS CRITICAL BEYOND THE TOLERANCE STATED ABOVE FOR DESIGN MUST BE POINTED OUT AND A TIGHTER TOLERANCE MUST BE AGREED UPON.

- Trees with slight defects having an improbable likelihood of failure. Highlighted in Green.
- Trees with moderate defects having a possible likelihood of failure. Highlighted in Orange.
- Trees with severe defects having a probable likelihood of failure. Highlighted in Blue.
- Trees with critical defects having an imminent likelihood of failure. These will need immediate attention and are highlighted in Red.

NOTES:

1.) THE BEARINGS SHOWN HEREON ARE MAGNETIC AND AS SUCH ARE SUBJECT TO LOCAL ATTRACTION.
2.) THIS PLAT DOES NOT CERTIFY THE PRESENCE OR ABSENCE OF U.S. ARMY CORPS OF ENGINEERS JURISDICTIONAL WETLANDS.
3.) METHOD OF AREA CALCULATION BASED ON COORDINATE METHOD.
4.) LOCATION OF UNDERGROUND UTILITIES ARE FROM SURFACE INDICATIONS ONLY AND ARE NOT CERTIFIABLE.
5.) THIS PLAT REPRESENTS A SURVEY BASED ON THE LISTED REFERENCES ONLY AND IS NOT THE RESULT OF A TITLE SEARCH.
6.) CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS.
7.) THE CERTIFIER HAS NOT INVESTIGATED OR BEEN INSTRUCTED TO INVESTIGATE THE EXISTENCE OR NONEXISTENCE OF ANY OVERLAY DISTRICTS, SUCH AS; AIRPORT, MILITARY, NOISE, CRASH POTENTIAL OR ENVIRONMENTAL ISSUES.
8.) BEFORE ANY DESIGN WORK OR CONSTRUCTION ON THIS SITE IS STARTED FLOOD ZONE INFORMATION MUST BE VERIFIED BY PROPER BUILDING CODES OFFICIAL.
9.) SETBACKS SHOWN AS PER PLAT OF RECORD AND MUST BE VERIFIED WITH OFFICIAL AGENCY BEFORE PURCHASE AND OR CONSTRUCTION ON SUBJECT PROPERTY.

10.) THIS PROPERTY APPEARS TO LIE IN FLOOD ZONE "C" AS DETERMINED BY F.E.M.A. FIRM COMM-PANEL NUMBER 450025 0100 D. DATED 09/29/86 (INDEX DATE 11/04/92)
11.) CONTOUR INTERVAL IS 1'.
12.) VERTICAL DATUM IS 1929 NGVD.

REFERENCES:

1.) T.M.S. R200 015 000 0116 0000
2.) PLAT BY DAVIDE S. YOUMANS
DATED 3/3/98
BOOK 1033, PAGE 542
BEAUFORT COUNTY R.M.C. OFFICE

LEGEND OF SYMBOLS & ABBREVIATIONS

	FIRE HYDRANT	MVM	MAIN VALVE MONUMENT
CO	CLEAN OUT	MH	MANHOLE
PP	POWER POLE	GW	GUY WIRE
TP	TELEPHONE PEDESTAL	CB	CABLE BOX
FO	FIBER OPTIC STUB	OE	OVERHEAD POWERLINE
WV	WATER VALVE		EDGE OF PAVEMENT
	GAS VALVE		BACK OF CURB
	WATER METER		LIGHTPOLE
	1/2"ROD SET		GAS LINE
			CENTER LINE
			CONTOUR LINE

TREE SIZE & TYPE
ELEVATION

30 15 0' 30 60 90

TREE AND TOPOGRAPHICAL SURVEY
R200 015 000 0116 0000
PREPARED FOR
TERRA DEVELOPMENT GROUP
LADY'S ISLAND
BEAUFORT COUNTY SOUTH CAROLINA

DATE 2/17/2020 SCALE 1"=30'

GASQUE & ASSOCIATES INC.
LAND SURVEYORS · PLANNERS
28 PROFESSIONAL VILLAGE CIRCLE, BEAUFORT, S.C.
P.O. BOX 1363, BEAUFORT, S.C.
(843) 522-1798

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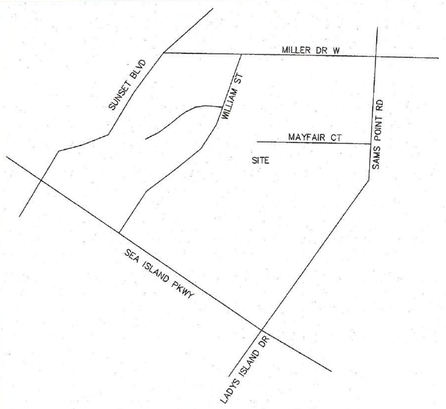
David E. Gasque, R.L.S.
S.C. Registration Number 10506

JOB#51915 F.B.#NA/WG DRAWN BY?



LOCATION MAP (N.T.S.)

- Trees with slight defects having an improbable likelihood of failure. Highlighted in Green.
- Trees with moderate defects having a possible likelihood of failure. Highlighted in Orange.
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TREE LEGEND

CODE	COMMON NAME	BOTANICAL NAME
PNS	PINE SHORTLEAF	Pinus echinata
PNL	PINE LONGLEAF	Pinus palustris
LO	LIVE OAK	Quercus virginiana
O	OAK	Quercus spp.
MAG	SOUTHERN MAGNOLIA	Magnolia grandiflora
PA	PALMETTO	Sabal palmetto
SUB	SUGARBERRY	Celtis laevigata
EL	ELM	Ulmus spp.
HI	MOCKERNUT HICKORY	Carya spp.
BAY	BAY MAGNOLIA	Gordonia spp.
WO	WAX MYRTLE	Myrica cerifera
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S.C. STATE PLANE

PROFESSION VILLAGE
R200 015 000 116A 0000
ENGINEERS P/S (THE)

LEGEND OF SYMBOLS & ABBREVIATIONS

	FIRE HYDRANT	MVM	MAIN VALVE MONUMENT
CO	CLEAN OUT	MH	MANHOLE
PP	POWER POLE	GW	GUY WIRE
TP	TELEPHONE PEDESTAL	CB	CABLE BOX
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GV			BACK OF CURB
	GAS VALVE		LIGHTPOLE
	WATER METER		GAS LINE
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TREE SIZE & TYPE ● ELEVATION

TREE AND TOPOGRAPHICAL SURVEY
R200 015 000 0116 0000
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LADY'S ISLAND
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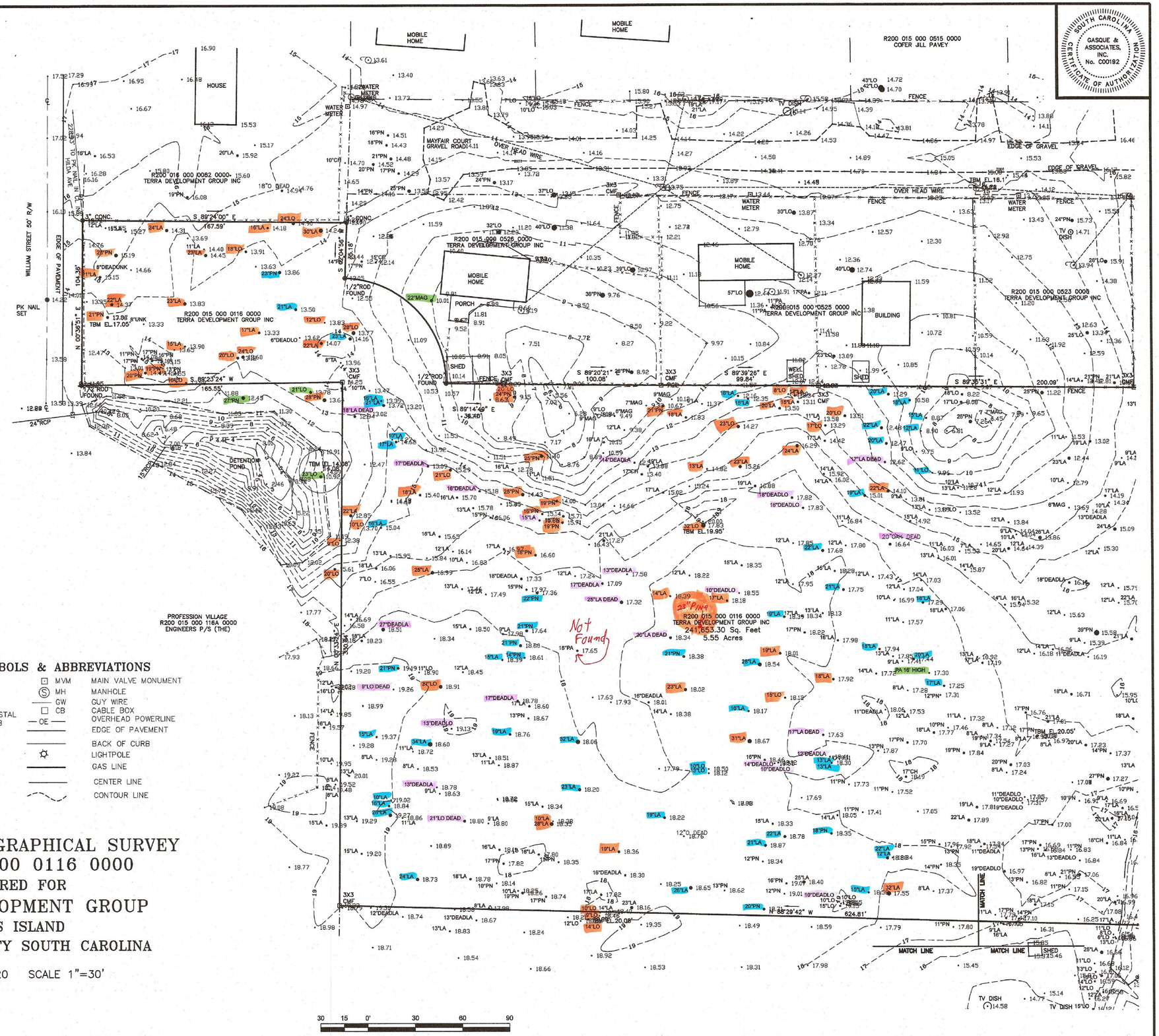
JOB#51915 F.B.#NA/WG DRAWN BY7

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
GASQUE & ASSOCIATES, INC.
No. C00192



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PRESERVATION TREE

BOARD CERTIFIED MASTER ARBORIST ISA
Michael P. Murphy,
NJ-0146B

July 25, 2020

Lady's Island Storage, LLC
PO Box 448
Port Royal, SC 29935

Re: Proposed Storage Facility

PURPOSE

The purpose of this report is to perform a modified Level 2, Basic Tree Risk Assessment on all larger trees shown on the existing tree and topo.

Each tree will have a detailed visual inspection of its surrounding site, buttress roots, trunk and branches and an assessment of the tree's general health. The information will be used to determine physical and structural health of the trees, as well as the likelihood and consequences of failure in each tree. This evaluation technique will provide an assessed degree of risk associated with each tree. A potential of failure will then be assigned to each tree. This potential rating can be submitted to the City of Beaufort and may result in a reduction allowances to the total caliper inches of trees which need to be mitigated for. It can also be used to determine which trees should, or should not, be preserved on site as well as which trees may need special attention.

A Level 2 Basic Tree Risk Assessment is not the highest level of assessment available to arborists. Any trees that are pending to be preserved on site which may require a higher level of assessment will also be identified and any additional necessary recommendations will be given.

Recommendations will be given for performance and timing of maintenance procedures, such as pruning, root pruning and root fertilization; measures that should be performed on trees that are to be preserved on site.

13 Prescient Avenue • Lady's Island, South Carolina 29907 • (843) 812-8733

Each of the trees on site will be categorized into four different groups designating each tree's individual condition based on both structural and physical health factors. Additionally, smaller trees may also be highlighted so that you will have more information on their status and be able to better make judgement calls on whether they should remain in the landscape. Each condition grouping will be highlighted with a specific color on the site plan. These designating letters and groupings are as follows:

A) Trees with slight defects having an improbable likelihood of failure. These are highlighted in Green.
B) Trees with moderate defects having a possible likelihood of failure. These are highlighted in Orange.
C) Trees with severe defects having a probable likelihood of failure. These are highlighted in Blue.
D) Trees with critical defects having an imminent likelihood of failure. These will need immediate attention and will be highlighted in Red.

All trees listed as dead on the tree and topo have been verified as dead by the certified arborist.

PREFACE

Tree preservation on construction sites involves planning, forethought, and visualization. The process of merely retaining trees on site is not tree preservation. Pre-construction maintenance procedures before groundbreaking, coupled with vigilant protective measures and a commitment to future maintenance all are a part of this procedure. Minimum Tree Root Protection Zones (TRPZ), equaling a six (6) inch radius for every inch of trunk diameter, need to be established on the site plan, transferred to the actual site and maintained for the entire length of the construction process as soon as possible after permitting has been attained. Note: The preferred and recommended radius for TRPZ is one a (1) foot radius per inch of trunk diameter.

Flexibility and options for wet and dry utility placement and the ability to perform directional boring as needed where roots would otherwise have been cut within TRPZ, all need to be options that should be considered.

Use these report findings wisely. Do not attempt to preserve a tree on site that will put the proposed buildings or residents in jeopardy. Do not allow the mitigation requirements of the City of Beaufort to influence your decisions on whether a tree should be preserved on site.

Preservation of poorly structured or weak trees on construction sites is generally futile. Construction conditions have the capacity to exacerbate these problems and usually results in death or failure at a time that adds great expense to their removal; not to mention the additional exposure to risk factors that are involved.

That being said, consideration also should be given to retaining any of the better rated mature, veteran trees that may be present. Trees are one of the only assets that increase in value over their lifespan. Overall, whenever possible, if it is a stable and worthy tree, we should try and maximize the length of time a tree stays in its mature phase. Mature trees provide the most benefits to our community and development sites.

SITE

Lady's Island is one of the last areas of Beaufort County where there are significant stands of longleaf pine. There are no longleaf pine on this site.

For a Lowcountry lot, even one of this size, there is a relatively significant amount of grade changes that could require quite a bit of elevation adjustment to fulfill your water runoff requirements. These grading requirements are not always compatible with tree preservation. Although the proposed storage units would benefit greatly from the shade that would be given off from the preserved trees, their proximity to the new units could be major liability depending on the amount of root cuts and grade changes that will need to be made. Full undisturbed TRPZs would be recommended to be able to be established before any trees are designated for preservation within the main development area.

PALMETTO TREES

There is only one palmetto tree currently found and listed on the tree and topo. It has been remarked on the assessment copy to designate its individual height rather than its diameter. An 18-inch palmetto also listed on the tree and topo was not found.

SITE DISCREPANCIES

The 18-inch palmetto shown in the northwest quadrant of page three is not found.

There is a 23-inch pine tree not shown. This tree sits almost dead center of the lot on page 3 under the lot number designation, Terra Development, square foot & acreage stamp.

SPECIAL ATTENTION TREES

There are a number of trees in the southeast corner near that are growing over the property line and affecting the building siding and roof areas of the Tabby Oaks Apartments. If not removed with site work in a timely manner, these trees should be pruned as soon as possible.

A 21-inch laurel oak, also in the southeast corner, is in severe decline and poses a risk to the adjacent Tabby Oaks building. It has critical defects and an imminent likelihood of failure. This tree will need immediate attention.

The TRPZ of the 47-inch live oak near the entrance to Tabby Oaks Apartments will need to be fully established in order to protect the tree root system from being damaged from the projected fill that would be needed to develop in front of it.

Any other trees near the Tabby Oaks entrance can be pruned to increase visibility to the site.

PRE-CONSTRUCTION MAINTENANCE

All trees proposed to be preserved on site should be pruned using the Natural Pruning System and prescribed root fertilized, if needed after soil testing, well in advance of site work. The pruning requirement could be performed fairly close to the beginning of site work, but the root fertilization will need to be completed at least four months prior to groundbreaking.

If construction is eminent and the root fertilization prescribed after soil testing cannot be performed within this scheduled time frame, then it should be delayed until at least three months after site work begins.

During this pruning procedure, no matter what condition the trees have been rated at, any over-extended limbs and leads on the larger oaks will need weight reduction performed in order to reduce the risk of limb or lead failure. This will be following conservation arboriculture measures and be consistent with the guidelines set forth in the new 2017 ANSI A-300 Pruning Standards resulting in a more natural pruning system. This weight reduction will be highly effective in maintaining present and future trunk and limb stability. The densest Spanish moss clumps should also be removed.

Great care should be taken by the arborists contracted to perform the pruning in retaining as much live wood on the interior of the trees as possible while actively reducing any and all over extended limbs and leads. Future pruning requirements of the trees will require these interior limbs to remain in place.

ROOT CUTS

The impact of linear root cuts on tree stability is highly dependent on the configuration of the tree's root system. Trees with lateral root systems are more susceptible to a loss of stability than trees with oblique or tap root systems. Nevertheless, any root cuts can be critical to each tree's stability as well as survivability. The minimum suggested radial setback distance for root cuts is three times the trunk diameter. The preferred radial distance is five times the trunk diameter. This is assuming that the tree is healthy and has no additional root defects or other conditions that would predispose it to failure. Cuts made as close as three times the diameter to the trunk will impact the trees' overall health somewhat, but generally will not substantially increase the risk of failure.

Linear cuts on one side of a tree can reduce stability when the cut is made at a distance from the trunk that is less than three times the diameter. Severe loss of stability is common when cuts are made at a distance that is less than 1 to 1.5 times the trunk diameter. If a linear cut is made at the trunk, nearly all species will have a sever reduction in stability. Most trees growing in the common soils local to the Lowcountry have lateral root systems which are more susceptible to a loss of stability than trees with oblique or tap root systems.

Directional boring should be the first recourse when wet or dry utilities are to be placed through any TRPZs.

Any roots needing to be cut should be cut cleanly back into the backfill area of the retained root end. All root cut setback distances shall be measured in the field from the leading edge of the tree's root flare or buttress.

If any trenching needs to take place within these setbacks, then the excavation will need to be dug by hand for a distance of ten feet either side of the centerline of the tree trunk for a total hand-dug distance of twenty feet. Any roots encountered in this trenching shall also be cut cleanly back into the backfill area.

FILL

The addition of fill soil on a site can be a major issue for the survivability of the preserved trees. Tree roots can usually survive moderate backfill situations where all upper organic material has removed prior to the new soil being installed and there is no prior compaction to the original grade before the fill is installed. Tree root flare or buttress areas should never have fill covering them. The fill should be gently feathered away from them and they should stay at their natural exposure at original grade.

TREE ROOT PROTECTION ZONES

All trees preserved on site shall have TRPZ established with appropriate fencing installed at its perimeters. This fencing shall be permanent throughout the entire construction process and taken down for final landscaping installation. The radius of this protection fencing should be a minimum of six (6) inches for every inch of trunk diameter. The preferred radius is one (1) foot radius for every inch of trunk diameter. Multiple trees growing closely together should be grouped into large TRPZ whenever possible. No construction operations should take place within the TRPZ. Future landscape trenching for irrigation lines should be run outside of the TRPZ. The landscape firms bidding on the installation should be notified of this before bids are sought. This may not be able to be accomplished on all trees to be preserved given the proposed plan. Trees that cannot be fully protected may have an increased risk of being impacted more severely by the construction process. If the tree in question has been listed as having either a slight or moderate risk level, then it's preservation on site should usually proceed. TRPZ do not have to be perfect circles around the tree trunk, they can be increased on other sides if they need to be narrowed up on construction frontages.

Any trees that are to be preserved on site around which a fully recommended TRPZ cannot be established, a three (3-4") layer of coarse mulch should be established over the root system in those areas. This mulch layer will need to be monitored and maintained throughout the entire part of the construction process that access is needed in that particular area. If possible, the TRPZ should be established as soon as the access is no longer needed.

AFTER-CARE

All significant or otherwise important trees preserved on site that may have had moderate to severe soil compaction that affected its protected root zone should have a root invigoration performed after construction has been completed and before landscaping. The arborist who will be performing this service should have a direct line of communication with the landscaper in order to assure that original grade soil levels are not buried before root invigoration takes place. The association with the landscaper will also be important to help map out the irrigation trenches and make sure that they are placed outside the original TRPZ as mentioned before in the recommendations.

Root invigoration is a process that aerates the soil and incorporates additional organic matter back into it in the form of compost that can restore vitality to the soil and the tree roots living in it. This is performed with the assistance of a compressor run air spade.

After construction, the trees should be inspected quarterly for the first two years, semi-annually for the next two years and annually after that. Annual root fertilization programs should be set up and implemented as is deemed necessary from the results of these inspections.

ASSESSMENT RESULTS

A) Trees with slight defects having an improbable likelihood of failure and are highlighted in Green on the site plan:

Live oak-
47",34", 23",21".

Magnolia- 22".

Pine- 27".

Palmetto- 16-feet.

B) Trees with moderate defects having a possible likelihood of failure and are highlighted in Orange on the site plan:

Live oak-
32", 32", 28", 27", 27", 26", 24", 24", 24", 23", 23", 23", 21", 21", 21", 21", 21", 20", 20", 20", 20", 20", 19", 19", 18", 18", 18", 18", 18", 17", 17", 17", 16", 16", 16", 15", 15", 15", 15", 15", 14", 14", 14", 14", 13", 13", 12", 12", 11", 11", 11", 10", 10", 10", 10", 10", 10", 9", 9", 8", 8", 6".

Laurel oak –
33", 32", 31", 28", 25", 25", 25", 24", 24", 24", 24", 24", 23", 23", 23", 23", 22", 22", 22", 22", 22", 22", 22", 22", 22", 21", 21", 21", 20", 20", 20", 20", 19", 19", 19", 19", 18", 18", 18", 18", 18", 18", 18", 18", 17", 17", 17", 17", 17", 16", 15", 14", 10", 9", 8".

C) Trees with severe defects having a probable likelihood of failure and are highlighted in Blue on the site plan:

Live oak- 13", 12", 11", 10", 10", 9".

Laurel oak-
32", 34", 28", 26", 26", 26", 25", 25", 24", 24", 23", 23", 23", 22", 22", 22", 22", 22", 21", 21", 21", 21", 20", 20", 20", 20", 20", 19", 19", 19", 19", 18", 18", 18", 18", 18", 17", 17', 17", 17", 17", 16", 16", 16", 16", 15", 15", 15", 15", 15", 15", 15", 13", 13", 12", 12", 12", 10", 10".

Pine-
39", 27", 23", 22", 21", 21", 21", 21", 20", 20", 18", 14".

D) Trees with critical defects having an imminent likelihood of failure and are highlighted in Pink on the site plan:

Live oak-
21", 19", 14", 13", 13", 11", 10", 10", 10", 10", 10", 9", 9", 8", 8", 6".

Laurel oak-
27", 25", 23", 21", 20", 20", 20", 19", 18", 18", 18", 18", 17", 17", 17", 17", 17", 16", 16", 16", 16", 16", 16", 15", 14", 13", 13", 13", 13", 12", 12", 11", 11", 11", 10", 9", 9", 9", 8".

Cherry- 10".

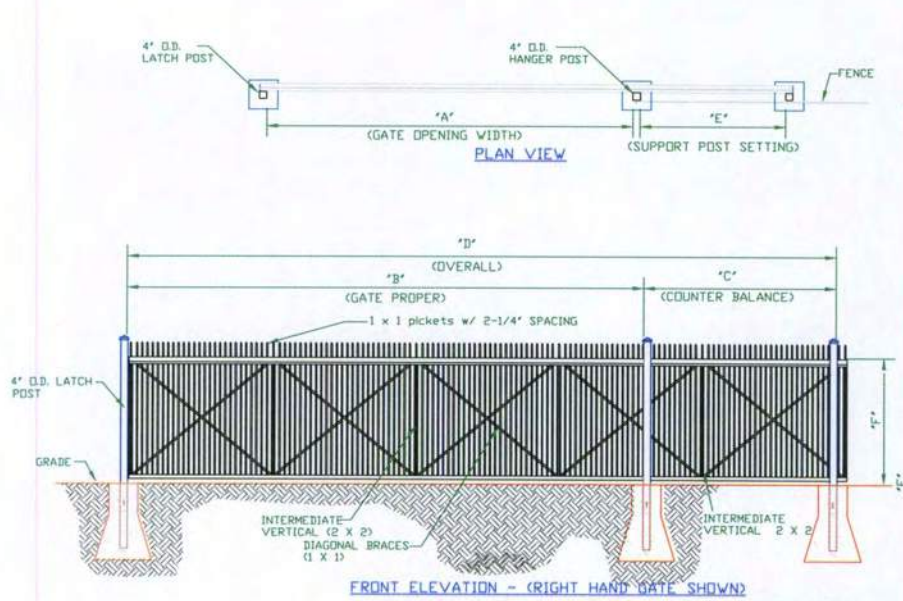
Please call if you have any questions about this report or if you need further onsite clarifications.

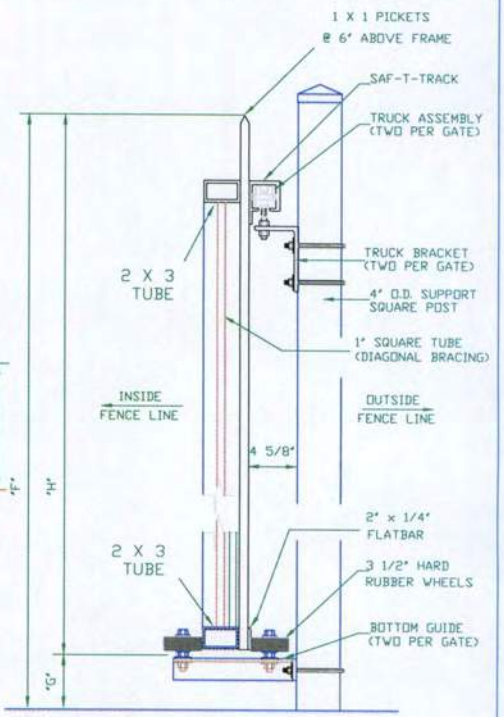
Respectfully submitted,

Michael P. Murphy

Michael P. Murphy
Board Certified Master Arborist NJ-0146B

Arborists are tree specialists who use their education, knowledge, training, and experience to examine trees, recommend measures to enhance the beauty and health of the trees and attempt to reduce the risk of living near trees. Arborists cannot detect every condition that could possibly lead to the structural failure of a tree. Since trees are living organisms, conditions are often hidden within the tree and below ground. Arborists cannot guarantee that a tree will be healthy or safe under all circumstances, or for a specific period of time. Likewise, remedial treatments cannot be guaranteed. Trees can be managed but they cannot be controlled. To live near trees is to accept some degree of risk.





GENERAL NOTES:

1. STANDARD FITTINGS ARE FOR 4" POSTS. OTHER SIZES ARE AVAILABLE.
2. PICKETS TO BE PROVIDED AS PER SPECIFICATIONS.
3. 4" O.D. POSTS SETS PROVIDED BY OTHERS.
4. REFER TO SPECS FOR CONCRETE FOOTING DIMENSIONS. CO-ORDINATE W/ LOCAL CODES & FROST LINES.
5. MOUNT TRUCK BRACKETS 4" BELOW FENCE LINE. INSTALL TRUCKS IN TRUCK BRACKETS AND TIGHTEN LOCKNUTS. TRUCKS MUST BE LEVEL WITH EACH OTHER.
6. LEFT HAND GATE IS OPPOSITE OF THAT SHOWN.
7. AVAILABLE IN OPENING SIZES TO 24 FEET.
8. SEE DWG FOR MOUNTING DETAILS OF TRUCK BRACKET, TRUCK, AND BOTT. GUIDE.
9. GATES ARE UL 325 COMPLIANT- PICKETS RUN ENTIRE LENGTH OF GATE
10. A FABRIC OR MESH BEHIND THE PICKETS ALONG THE LENGTH OF THE GATE WOULD BE REQUIRED TO MAKE EACH GATE COMPLY WITH UL325 CODES & ASTM F2200 STANDARDS IF SPACING IS GREATER THAN 2-1/4".

DIMENSION TABLE

DIMENSION DESCRIPTION	DIM.	DETERMINE DIMENSION BY	ACTUAL
GATE OPENING	'A'	INSIDE TO INSIDE MEASURE	
GATE PROPER (SINGLE)	'B'	GATE PROPER (SINGLE)A+12"	
COUNTERBALANCE LENGTH	'C'	SEE COUNTER BALANCE CHART	
OVERALL GATE LENGTH	'D'	B+C	
SUPPORT POST SETTING	'E'	C-12"	
NOMINAL GATE HEIGHT	'F'	EQUAL TO FENCE LINE HEIGHT	
GRADE CLEARANCE	'G'	GRADE CLEARANCE	5"
ACTUAL GATE HEIGHT	'H'	F-G	

AAE Design Group, Inc.
241 Glassmaster Road • POB 361• Lexington, SC 29071
Ph: 1-888-400-9955 Fax: 1-803-359-9304

1 of 1

TITLE: STANDARD PICKET GATE

DATE: 1/27/10

JOB NAME | PURCHASE ORDER # | SCALE: AS SHOWN | REV. 0

DEVELOPMENT REVIEW PROCESS
DESIGN REVIEW BOARD APPLICATION
Community and Economic Development Department
1911 Boundary Street, Beaufort, South Carolina, 29902
p. (843) 525-7011 / f. (843) 986-5606
www.cityofbeaufort.org

Required Project Information

Project Name: AAA Storage City

Property Size in Acres: 5.55 acres Proposed Building Use: Storage facility

Building Square Footage (if multiple buildings, please list each one and their square footage by floor):
1,236 SF Office Building, 105,508 SF Storage Facility Total

# of Parking Spaces Required: 7 # of Parking Spaces Provided: 7

Is this project a redevelopment project: Y (N)

Are there existing buildings on the site? Y (N) if yes, will they remain? Y N

Provide a brief Project Narrative and outline any specific questions you would like addressed.
See Narrative

Applicant's Signature: John M. Brock Date: 02182021

Owner's Signature: Merritt Patterson Date: 02182021

(The owner's signature is required if the applicant is not the owner.)

CONTACT INFORMATION:

Attention: Julie A. Bachety, Administrative Assistant II

City of Beaufort Department of Planning & Development Services

1911 Boundary Street, Beaufort, South Carolina 29902

E-Mail: jbachety@cityofbeaufort.org: | Phone: (843) 525-7011 | Fax: (843) 986-5606

BEAUFORT COUNTY SC - ROD
BK 3914 Pgs 0641-0658
FILE NUM 2020054858
09/28/2020 02:44:31 PM
RCPT# 995412
RECORDING FEES 25.00

STATE OF SOUTH CAROLINA)
)
COUNTY OF BEAUFORT)

NON-EXCLUSIVE INGRESS, EGRESS UTILITIES AND MAINTENANCE EASEMENT

THIS NON-EXCLUSIVE INGRESS AND EGRESS EASEMENT AGREEMENT ("AGREEMENT") is made on the seventieth day of July, 2020, by and between LADY'S ISLAND STORAGE, LLC, 87 Sunset Boulevard, Beaufort, SC 29902, as Grantee; the Tabby Oaks Homeowners Association, c/o Bundy Appraisal & Management Inc., P. O. Box 1225, Beaufort Sc 29901 ("Association"), and the owners of the twenty (21) individual units of the Association , as listed on Exhibit A attached hereto (collectively "Unit Owners"). The Association and Unit Owners are collectively referred to as "Grantor".

WHEREAS, Grantee owns or will own approximately 5.54 acres, more or less, as shown on that certain survey prepared by David S. Youmans (RLS #9765), dated September 26, 1986, captioned "Lot Survey Prepared for Terra Development", recorded at the Beaufort County Register of Deeds ("ROD") at Deed Book 1033 at Page 539 ("Grantee Parcel") ;

WHEREAS, the Association holds record fee simple title to approximately 0.24 acres, more or less, designated and shown as "Proposed Access Easement, 10260.00 Sq. Ft. , 0.24 acres", as shown on that certain survey prepared by David E. Gasque (RLS # 10506), dated April 6, 2020 , captioned "Plat Showing Easement Prepared for Terra Development Corp." and recorded in the ROD at Plat Book 153 at Page 187 ("Roadway");

WHEREAS, Grantee wishes to acquire a perpetual, non-exclusive easement for utilities, pedestrians, ingress and egress, and the maintenance of the Roadway from Grantor to construct, use, and maintain a paved roadway to Grantee's Parcel from Highway S.C. Highway 802 a/k/a Sams Point Road;

WHEREAS, pursuant to that certain deed from Beaufort Building Center, Inc. to the Association, dated January 29, 1998 and recorded in the ROD at Book 1010 at Page 1719, the Association holds record title to the Roadway;

WHEREAS, pursuant to that certain Master Deed of the Association, dated May 24, 1984 and recorded in the ROD at Page 394 at Page 795, as amended, the Unit Owners, as listed on Exhibit A attached hereto, own an undivided interest in all Common Elements of the Association, which arguably includes all or a part of the Roadway;

WHEREAS, the parties, wish to confirm the agreement of the Association **and** the Unit Owners that the Grantee, its guests, invitees, tenants, successors and assigns, may use said Roadway in perpetuity to access and run utilities to Grantee's Parcel under the terms and conditions as set forth below.

WITNESSETH, that the Grantor, for and in consideration of Ten and No/100 ($10.00) Dollars, and other good and valuable consideration, paid by the Grantee to the Grantor, the receipt of which is hereby acknowledged, does for itself, themselves and their successors, heirs and assigns, hereby grant, bargain, sell, release and convey unto the Grantee, its tenants, customers, guests, invitees, successors and assigns, the following non-exclusive, perpetual easement rights:

1. Whereas Provisions – The above Whereas provisions are incorporated herein by reference as if fully set forth herein. Said provisions are important and material to the parties.

2. Construction and Maintenance of Roadway – Grantee, its agents, contractors, successors and assigns, at its sole cost and expense, shall have the perpetual right to construct and maintain the Roadway to provide access to the Grantee Parcel and to place utilities (water, sewer, gas, electricity, irrigation, etc.) on and underneath the Roadway to service Grantee Parcel.

3. Ingress-Egress Easement – Grantee, its tenants, customers, guests, invitees, successors and assigns shall have the perpetual, non-exclusive right to use the Roadway for pedestrian traffic, and ingress and egress to and from the Grantee Parcel.

4. Additional Improvements – Grantor may at any time, or from time-to-time, construct additional improvements to the Roadway so long as at all times Grantee, its successors and assigns, has reasonable, direct access to the Grantee Parcel.

5. Maintenance – Grantee, its successors and assigns, so long as it has the easement rights granted herein, shall have the duty and obligation to maintain and repair the Roadway.

6. Insurance – Grantee, so long as it has the easement rights granted herein, shall provide and maintain a General Liability insurance policy as to accidents on the Roadway in an amount of at least $1,000,000 per occurrence and $2,000,000 in the aggregate. Grantee shall provide proof of insurance to Grantor upon written request.

7. Grantor's Liability for Accidents – Grantor has no duty to maintain or repair said Roadway and is not liable to Grantee, its customers, guests, invitees, successors and assigns for any accidents or injuries occurring on same.

8. Binding Effect – This Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective heirs, legal representatives, executors, administrators, successors and assigns.

9. Attorney Fees/Interest – In any litigation to enforce the terms and provisions of this Agreement, the prevailing party is entitled to recover reasonable attorney fees and costs. Any monies not paid when due shall accrue interest at 12% per annum.

10. Entire Agreement – This Agreement constitutes the entire agreement among the parties hereto and supersede and cancel any prior agreements, representations, warranties, or communications, whether oral or written, among the parties hereto relating to the transactions contemplated hereby or the subject matter herein. Neither this Agreement nor any provision hereof may be changed, waived, discharged or terminated orally, but only by an agreement in writing signed by the party against whom or which the enforcement of such change, waiver, discharge or termination is sought.

11. Severability – Except to the extent that such unenforceability would deprive either party of the substantial value of its bargain, if any court shall determine that any aspect of this Agreement is unenforceable, it is the intention of the parties that is shall not thereby terminate, but shall be deemed amended to the extent required to render it valid and enforceable and such provision shall be deemed severed from this Agreement and all other provisions shall remain in full force and effect.

12. Governing Law – This Agreement shall be governed by and construed in accordance with the laws of the State of South Carolina.

13. Drafting of the Agreement – The parties acknowledge and agree that each was actively involved with the negotiation and drafting of this Agreement. Further, each party's legal counsel reviewed, or had the opportunity to review the Agreement prior to its execution. The parties agree any Court, arbitrator or mediator which may hereinafter interpret this Agreement will not construe the Agreement against any particular party which may have originated, typed or prepared any particular provision.

Said easement is given for the purpose of ingress and egress, pedestrian traffic, construction, utilities and maintenance, and it is agreed and understood that it is not to be construed as an easement given to the exclusion of the Grantor, its successors or assigns, or to others either previously or later granted a similar right.

TO HAVE AND TO HOLD all and singular, the said right-of-way and the rights hereinbefore granted, unto the said Grantee, its successors and assigns.

IN WITNESS WHEREOF, the parties hereto have duly executed this Agreement.

14. Waiver of Jury Trial – **To the extent permitted by applicable law, each the Grantee and Grantors below, knowingly, voluntarily, and intentionally waive any right each may have to a trial by jury in respect of any litigation based on, or arising out of, under or in connection with the Agreement, or any agreement contemplated to be executed in connection with this Agreement of even date, or any course of conduct, course of dealing, statements (whether verbal or written) or action of any party with respect hereto. This provision is a material inducement to Grantee to enter into this transaction.**

WITNESSES:

Paul Merritt Patterson

GRANTEE: LADY'S ISLAND STORAGE, LLC

By: _____

Its: managing partner

STATE OF SOUTH CAROLINA)
)
COUNTY OF BEAUFORT)

ACKNOWLEDGMENT

The undersigned Notary Public does hereby certify that a representative of Lady's Island Storage, LLC personally appeared before me this day and acknowledged the due execution of the forgoing instrument.

Witness my hand and official seal this 14TH day of ~~April~~ May, 2020.

Paul Merritt Patterson
Notary Public for South Carolina
My Commission Expires: 5/5/2025

14. **Waiver of Jury Trial - To the extent permitted by applicable law, each the Grantee and Grantors below, knowingly, voluntarily, and intentionally waive any right each may have to a trial by jury in respect of any litigation based on, or arising out of, under or in connection with the Agreement, or any agreement contemplated to be executed in connection with this Agreement of even date, or any course of conduct, course of dealing, statements (whether verbal or written) or action of any party with respect hereto. This provision is a material inducement to Grantee to enter into this transaction.**

WITNESSES:

GRANTOR: Tabby Oaks Homeowners Association

By: _____

Its: President

STATE OF SOUTH CAROLINA)
)
COUNTY OF BEAUFORT)

ACKNOWLEDGMENT

The undersigned Notary Public does hereby certify that Gregory C. Westergard personally appeared before me this day and acknowledged the due execution of the forgoing instrument.

Witness my hand and official seal this 24th day of June, 2020.

Notary Public for South Carolina
My Commission Expires: 6/3/2029

Agreement, Acknowledgment and Consent of Unit Owner to Easement Agreement

14. **Waiver of Jury Trial - To the extent permitted by applicable law, each the Grantee and Grantors below, knowingly, voluntarily, and intentionally waive any right each may have to a trial by jury in respect of any litigation based on, or arising out of, under or in connection with the Agreement, or any agreement contemplated to be executed in connection with this Agreement of even date, or any course of conduct, course of dealing, statements (whether verbal or written) or action of any party with respect hereto. This provision is a material inducement to Grantee to enter into this transaction.**

WITNESSES:

GRANTOR: Terra Development Group, Inc.
(Unit #s C-2, D-6, A-6, C-6)

By: Paul Merritt Patterson

Its: PRESIDENT

STATE OF SOUTH CAROLINA)
)
COUNTY OF BEAUFORT)

ACKNOWLEDGMENT

The undersigned Notary Public does hereby certify that Terra Development Group, Inc., personally appeared before me this day and acknowledged the due execution of the forgoing instrument.

Witness my hand and official seal this 16th day of April, 2020.

Notary Public for South Carolina
My Commission Expires: 4-25-2020

Agreement, Acknowledgment and Consent of Unit Owner to Easement Agreement

14. **Waiver of Jury Trial - To the extent permitted by applicable law, each the Grantee and Grantors below, knowingly, voluntarily, and intentionally waive any right each may have to a trial by jury in respect of any litigation based on, or arising out of, under or in connection with the Agreement, or any agreement contemplated to be executed in connection with this Agreement of even date, or any course of conduct, course of dealing, statements (whether verbal or written) or action of any party with respect hereto. This provision is a material inducement to Grantee to enter into this transaction.**

WITNESSES:

GRANTOR: Laughing Buddha, LLC
(Unit # A-1)

By: _____

Its: President

Tonya Pharr-Walker

STATE OF SOUTH CAROLINA)
)
COUNTY OF BEAUFORT)

ACKNOWLEDGMENT

The undersigned Notary Public does hereby certify that Laughing Buddha, LLC, personally appeared before me this day and acknowledged the due execution of the forgoing instrument.

Witness my hand and official seal this 24th day of ~~April~~ June, 2020.

Notary Public for South Carolina
My Commission Expires: 6/3/2029

Agreement, Acknowledgment and Consent of Unit Owner to Easement Agreement

14. **Waiver of Jury Trial - To the extent permitted by applicable law, each the Grantee and Grantors below, knowingly, voluntarily, and intentionally waive any right each may have to a trial by jury in respect of any litigation based on, or arising out of, under or in connection with the Agreement, or any agreement contemplated to be executed in connection with this Agreement of even date, or any course of conduct, course of dealing, statements (whether verbal or written) or action of any party with respect hereto. This provision is a material inducement to Grantee to enter into this transaction.**

WITNESSES:

GRANTOR: Red Planet Investments, LLC
(Unit # B-1)

By: _____

Its: President

STATE OF SOUTH CAROLINA)
)
COUNTY OF BEAUFORT)

ACKNOWLEDGMENT

The undersigned Notary Public does hereby certify that Red Planet Investments, LLC, personally appeared before me this day and acknowledged the due execution of the forgoing instrument.

Witness my hand and official seal this 24th day of ~~April~~ June 2020.

Notary Public for South Carolina
My Commission Expires: 6/3/2029

Agreement, Acknowledgment and Consent of Unit Owner to Easement Agreement

14. **Waiver of Jury Trial - To the extent permitted by applicable law, each the Grantee and Grantors below, knowingly, voluntarily, and intentionally waive any right each may have to a trial by jury in respect of any litigation based on, or arising out of, under or in connection with the Agreement, or any agreement contemplated to be executed in connection with this Agreement of even date, or any course of conduct, course of dealing, statements (whether verbal or written) or action of any party with respect hereto. This provision is a material inducement to Grantee to enter into this transaction.**

WITNESSES:

GRANTOR: Edward J Mc Neil and
Juraee S. McNeil (Unit # C-1)

Edward J. Mcneil

Juraee S. McNeil

STATE OF SOUTH CAROLINA)
)
COUNTY OF BEAUFORT)

ACKNOWLEDGMENT

The undersigned Notary Public does hereby certify that Edward J. McNeil and Juraee S. McNeil, personally appeared before me this day and acknowledged the due execution of the forgoing instrument.

Witness my hand and official seal this 17 day of ~~June~~ July, 2020.

Notary Public for South Carolina
My Commission Expires: 5/5/2025

Agreement, Acknowledgment and Consent of Unit Owner to Easement Agreement

14. **Waiver of Jury Trial - To the extent permitted by applicable law, each the Grantee and Grantors below, knowingly, voluntarily, and intentionally waive any right each may have to a trial by jury in respect of any litigation based on, or arising out of, under or in connection with the Agreement, or any agreement contemplated to be executed in connection with this Agreement of even date, or any course of conduct, course of dealing, statements (whether verbal or written) or action of any party with respect hereto. This provision is a material inducement to Grantee to enter into this transaction.**

WITNESSES:

GRANTOR: Clayton J. Newkirk and
Susan K. Newkirk (Unit # D-1)

Clayton J. Newkirk

Susan K. Newkirk

NEENA KAUR DAVIS
Notary Public
Alabama State at Large
My Commission Expires
January 13, 2024

STATE OF SOUTH CAROLINA)
) ACKNOWLEDGMENT
COUNTY OF BEAUFORT)

The undersigned Notary Public does hereby certify that Clayton J. Newkirk and Susan K. Newkirk, personally appeared before me this day and acknowledged the due execution of the forgoing instrument.

Witness my hand and official seal this 30th day of ~~April~~ June, 2020.

NEENA KAUR DAVIS
Notary Public
Alabama State at Large
My Commission Expires
January 13, 2024

Notary Public for ~~South Carolina~~ Alabama
My Commission Expires: 1/13/2024

Agreement, Acknowledgment and Consent of Unit Owner to Easement Agreement

14. **Waiver of Jury Trial - To the extent permitted by applicable law, each the Grantee and Grantors below, knowingly, voluntarily, and intentionally waive any right each may have to a trial by jury in respect of any litigation based on, or arising out of, under or in connection with the Agreement, or any agreement contemplated to be executed in connection with this Agreement of even date, or any course of conduct, course of dealing, statements (whether verbal or written) or action of any party with respect hereto. This provision is a material inducement to Grantee to enter into this transaction.**

WITNESSES:

GRANTOR: Bundy Appraisal & Management, Inc. (Unit # B-2, B-4, D-4)

By: Robert J. Bundy

Its: President

STATE OF SOUTH CAROLINA)
) ACKNOWLEDGMENT
COUNTY OF BEAUFORT)

The undersigned Notary Public does hereby certify that Bundy Appraisal & Management, Inc., personally appeared before me this day and acknowledged the due execution of the forgoing instrument.

Witness my hand and official seal this 15th day of July, 2020.

Notary Public for South Carolina
My Commission Expires:_____

Susan F Trogdon
Notary Public, State of South Carolina
My Commission Expires August 21, 2028

Agreement, Acknowledgment and Consent of Unit Owner to Easement Agreement

14. **Waiver of Jury Trial - To the extent permitted by applicable law, each the Grantee and Grantors below, knowingly, voluntarily, and intentionally waive any right each may have to a trial by jury in respect of any litigation based on, or arising out of, under or in connection with the Agreement, or any agreement contemplated to be executed in connection with this Agreement of even date, or any course of conduct, course of dealing, statements (whether verbal or written) or action of any party with respect hereto. This provision is a material inducement to Grantee to enter into this transaction.**

WITNESSES:

GRANTOR: Sarah P. Davis
(Unit # D-2, C-3, A-4)

Sarah P. Davis

STATE OF SOUTH CAROLINA)
)
COUNTY OF BEAUFORT)

ACKNOWLEDGMENT

The undersigned Notary Public does hereby certify that Sarah P. Davis, personally appeared before me this day and acknowledged the due execution of the forgoing instrument.

Witness my hand and official seal this 15th day of July 2020.

Notary Public for South Carolina
My Commission Expires:_____

Susan F Trogdon
Notary Public, State of South C
My Commission Expires August 21, 2028

Agreement, Acknowledgment and Consent of Unit Owner to Easement Agreement

14. **Waiver of Jury Trial - To the extent permitted by applicable law, each the Grantee and Grantors below, knowingly, voluntarily, and intentionally waive any right each may have to a trial by jury in respect of any litigation based on, or arising out of, under or in connection with the Agreement, or any agreement contemplated to be executed in connection with this Agreement of even date, or any course of conduct, course of dealing, statements (whether verbal or written) or action of any party with respect hereto. This provision is a material inducement to Grantee to enter into this transaction.**

WITNESSES:

GRANTOR: Pamela Rae Stark
(Unit # A-3)

Pamela Rae Stark

STATE OF THE COMMONWEALTH OF VIRGINIA)
) ACKNOWLEDGMENT
COUNTY OF VIRGINIA BEACH)

The undersigned Notary Public does hereby certify that Pamela Rae Stark personally appeared before me this day and acknowledged the due execution of the forgoing instrument.

Witness my hand and official seal this 14th day of May, 2020.

RAMONA J. COOK NOTARY PUBLIC COMMONWEALTH OF VIRGINIA 7561888

Notary Public for the Commonwealth of Virginia
My Commission Expires: April 30, 2021

Agreement, Acknowledgment and Consent of Unit Owner to Easement Agreement

14. **Waiver of Jury Trial - To the extent permitted by applicable law, each the Grantee and Grantors below, knowingly, voluntarily, and intentionally waive any right each may have to a trial by jury in respect of any litigation based on, or arising out of, under or in connection with the Agreement, or any agreement contemplated to be executed in connection with this Agreement of even date, or any course of conduct, course of dealing, statements (whether verbal or written) or action of any party with respect hereto. This provision is a material inducement to Grantee to enter into this transaction.**

WITNESSES:

GRANTOR: Jitendra M. Desai and Smita J. Desai as Trustees of The Desai Revocable Trust Agreement Dated September 6, 2007 (Unit # B-3, D-3)

June 22, 2020
Jitendra M. Desai, Trustee
By Power of Attorney, Neil Desai

June 22, 2020
Smita J. Desai, Trustee
By Power of Attorney, Neil Desai

STATE OF SOUTH CAROLINA)
) ACKNOWLEDGMENT
COUNTY OF BEAUFORT)

The undersigned Notary Public does hereby certify that Neil Desai with Power of attorney for Jitendra M. Desai and Smita J. Desai as Trustees of The Desai Revocable Trust Agreement Dated September 6, 2007, personally appeared before me this day and acknowledged the due execution of the forgoing instrument.

Witness my hand and official seal this 22nd day of June, 2020.

Notary Public for South Carolina
My Commission Expires: 4-25-2022

Agreement, Acknowledgment and Consent of Unit Owner to Easement Agreement

14. **Waiver of Jury Trial - To the extent permitted by applicable law, each the Grantee and Grantors below, knowingly, voluntarily, and intentionally waive any right each may have to a trial by jury in respect of any litigation based on, or arising out of, under or in connection with the Agreement, or any agreement contemplated to be executed in connection with this Agreement of even date, or any course of conduct, course of dealing, statements (whether verbal or written) or action of any party with respect hereto. This provision is a material inducement to Grantee to enter into this transaction.**

WITNESSES:

GRANTOR: Mikata, LLC
(Unit # ~~C-4~~ 4C

By: _____

Its: Owner

STATE OF SOUTH CAROLINA)
)
COUNTY OF BEAUFORT)

ACKNOWLEDGMENT

The undersigned Notary Public does hereby certify that Mikata, LLC, personally appeared before me this day and acknowledged the due execution of the forgoing instrument.

Witness my hand and official seal this 7 day of ~~April~~ May, 2020.

Notary Public for South Carolina
My Commission Expires: 5/5/2025

Agreement, Acknowledgment and Consent of Unit Owner to Easement Agreement

14. **Waiver of Jury Trial - To the extent permitted by applicable law, each the Grantee and Grantors below, knowingly, voluntarily, and intentionally waive any right each may have to a trial by jury in respect of any litigation based on, or arising out of, under or in connection with the Agreement, or any agreement contemplated to be executed in connection with this Agreement of even date, or any course of conduct, course of dealing, statements (whether verbal or written) or action of any party with respect hereto. This provision is a material inducement to Grantee to enter into this transaction.**

WITNESSES:

GRANTOR: Estate of Karla Ann Peterson
(Unit # B-6)

Representative for the estate of Karla Ann Peterson

STATE OF SOUTH CAROLINA)
) ACKNOWLEDGMENT
COUNTY OF BEAUFORT)

The undersigned Notary Public does hereby certify that the representative for the estate of Karla Ann Peterson, personally appeared before me this day and acknowledged the due execution of the forgoing instrument.

Witness my hand and official seal this 16th day of June, 2020.

Notary Public for South Carolina
My Commission Expires: 5/6/2025

EXHIBIT A

Unit Owners of Association

Owner	Unit Number	Deed Book/Page	TMS
Terra Development Group, Inc.	C2	2278/1541	200-14-123-2C
Terra Development Group, Inc.	D6	2235/1454	200-14-000-0123-006D
Terra Development Group, Inc.	A6	2205/1746	200-014-000-123-006A
Terra Development Group, Inc.	C6	2335/1422	R200-014-000-0123-006C
Laughing Buddha, LLC	A1	2495/0815	R200-014-000-0123-001A
Red Planet Investments, LLC	B1	2269/0548	R200-014-000-0123-001B
Edward J. McNeil and Juraree S. McNeil	C1	3874/649	R200-014-000-0123-001C
Clayton J. Newkirk and Susan K. Newkirk	D1	3333/1938	R200-014-000-0123-001D
25 Sams Point Rd 2a, LLC	A2	3835/2186	R200-014-000-0123-002A
Bundy Appraisal & Management, Inc.	B2	2643/2549	R200-014-000-0123-002B
Bundy Appraisal & Management, Inc.	B4	1489/0876	R200-014-000-0123-004B
Bundy Appraisal & Management, Inc.	D4	1001/1277	R200-014-000-0123-004D
Sarah P. Davis	D2	2155/1518/ 3854/691	R200-014-000-0123-002D
Sarah P. Davis	C3	1475/2066/ 3854/691	R200-014-000-0123-003C
Sarah P. Davis	A4	2003/1278/ 3854/691	R200-014-000-0123-004A
Pamela Rae Stark	A3	744/2306	R200-014-000-0123-003A
Jitendra M. Desai and Smita J. Desai as Trustees of The Desai Revocable Trust Agreement dated 9/6/2007	B3	2626/0826; 1133/208	R200-014-000-0123-003B

Jitendra M. Desai and Smita J. Desai as Trustees of The Desai Revocable Trust Agreement Dated 9/6/2007	D3	2626/0826	R200-014-000-0123-003D
Mikata, LLC	C4	2796/0001	R200-014-000-0123-004C
Karla Ann Peterson	B6	1137/2047	R200-014-000-0123-006B

TREE MITIGATION SCHEDULE

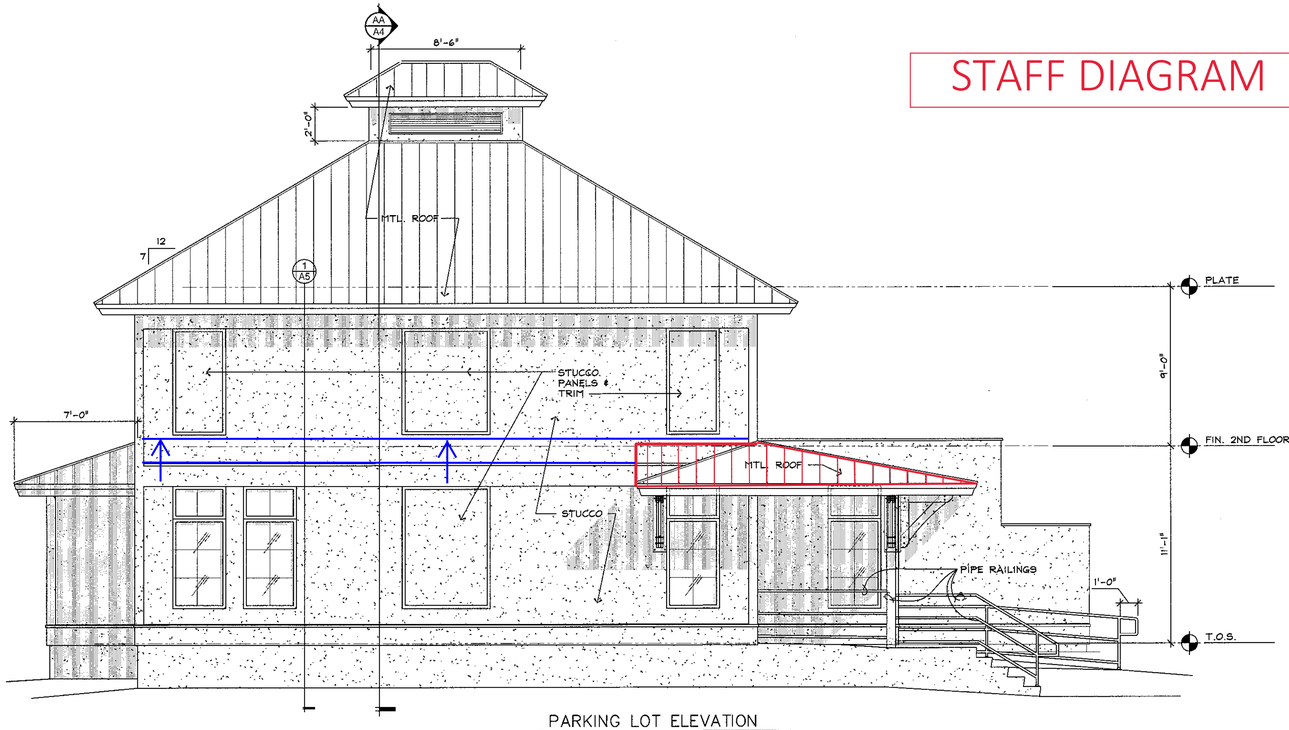
Project Name	Project Address	Zoning District Type
		TRANSECT

SCHEDULE OF TREES TO BE REMOVED

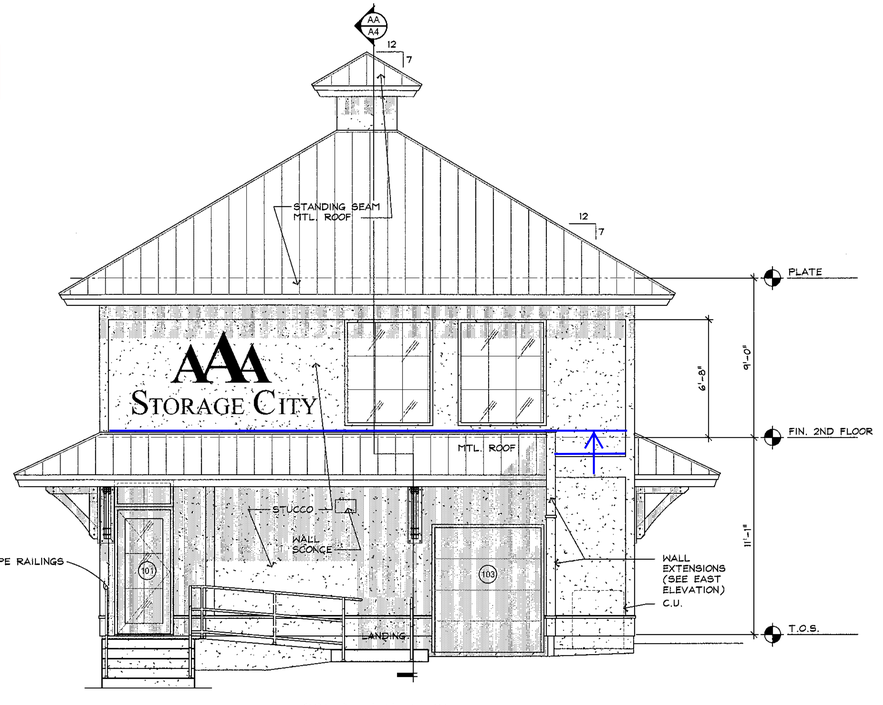
Tree Type (inches)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	TOTAL Requiring Permit	Landmark Inches Removed	Specimen Inches Removed	Total Saved Credits	TRANSECT Landmark Planted Credits	TRANSECT Specimen Planted Credits	Remaining Landmark Mitigation	Remaining Specimen Mitigation
Flowering Dogwood																																					0	0	0	0	0	0	$0	$0
Redbud																																					0	0	0	0	0	0	$0	$0
Southern Magnolia						2	1		2													1																6	0	37	0	0	0	$0	$1,850
American Holly																																					0	0	0	0	0	0	$0	$0
Eastern Red Cedar																																					0	0	0	0	0	0	$0	$0
Live Oak							1	1	2	10	3	1	1	2	2	1	2	1	1	2	1		1				2					1					34	86	254	8	0	0	$7,800	$12,700
Bald Cypress																																					0	0	0	0	0	0	$0	$0
Eastern Black Oak																																					0	0	0	0	0	0	$0	$0
Tupelo/Black Gum																																					0	0	0	0	0	0	$0	$0
White Oak																																					0	0	0	0	0	0	$0	$0
Southern Red Oak																																					0	0	0	0	0	0	$0	$0
Red Maple																																					0	0	0	0	0	0	$0	$0
American Elm																																					0	0	0	0	0	0	$0	$0
Longleaf Pine																																					0	0	0	0	0	0	$0	$0
American Beech																																					0	0	0	0	0	0	$0	$0

		AAA Residential Storage Facility						
	Trees:							
	Common Name	**Botanical Name**	**Height**	**Spread**	**Caliper**	**Gallon**	**QTY**	**Unit**
CECA	Red Bud	*Cercis canadensis*	8'	6'	2.5"		2	Ea
QUVI	Live Oak- Cathedral	*Quercus viginiana 'Cathedral'*	10'		3.5"		13	Ea
ULAM	American Elm	*Ulmus americana*	10'	8'	2.5"		2	Ea.
	SHRUBS:							
	Common Name	**Botanical Name**	**Height**	**Spread**	**Caliper**	**Gallon**	**QTY**	**Unit**
ILFL	Florida Anise Red	*Illicum floridanum*	30"	30"		7	7	Ea.
POMA	Dwarf Yew Pine	*Podocarpus macrophyllus 'Pringles'*	30"	24"		7	26	Ea.
VIOD	Sweet Viburnum	*Viburnum suspensum*	30"	30"		7	110	Ea.
SERE	Saw Palm	*Serenoa repens*	30"	30"		7	102	Ea.
MYCE	Wax Myrtle	*Merica cerifera*	6'	5'		7	80	Ea.
	GROUNDCOVERS & PERENNIALS:							
	Common Name	**Botanical Name**	**Height**	**Spread**	**Caliper**	**Gallon**	**QTY**	**Unit**
MUFI	Pink Muhly Grass	*Muhlenbergia capillaris*	24"	24"		1	69	Ea.
	Mulch	Pine Straw					35,000	SF
	Grass/IRRIGATION:							
	Item	**Notes**					**QTY**	**Unit**
	Sod- Centipede	Centipede Sod					20,400	SF
	Irrigation system	Srpay Head for Sod & Drip Zones on shrubs and trees					15	Ea

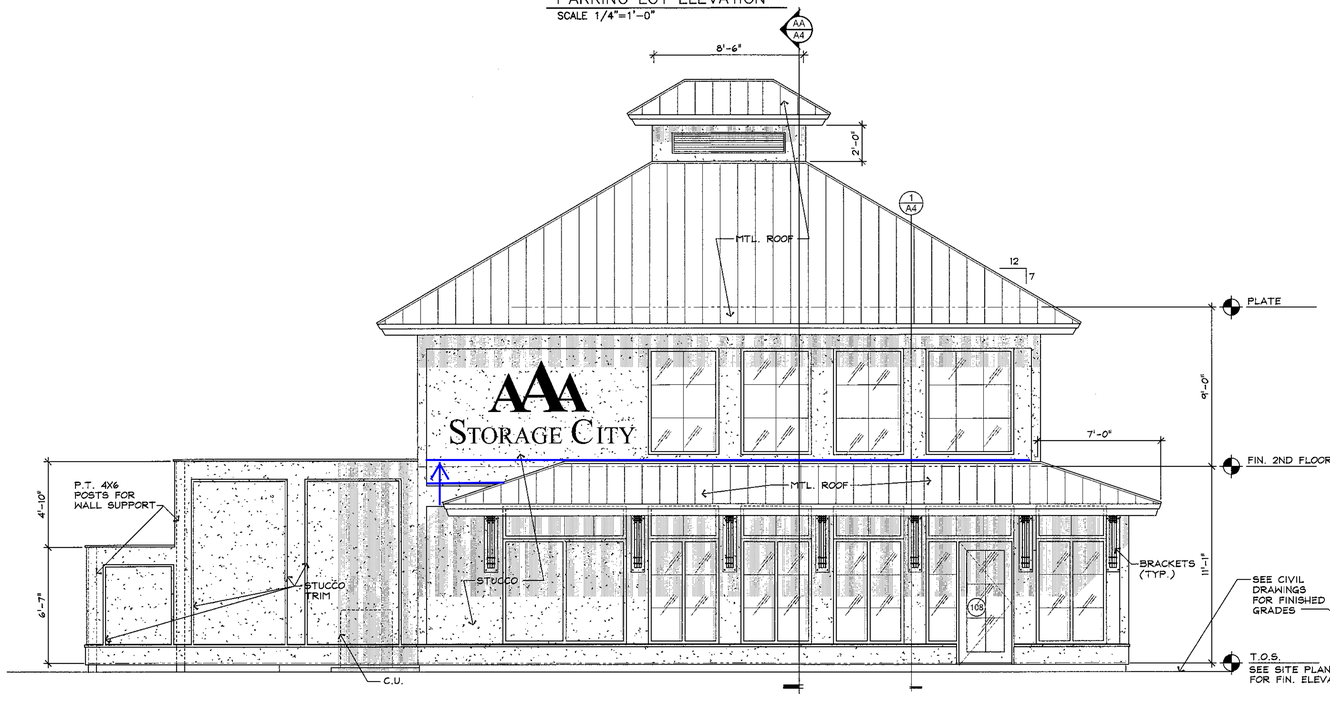
STAFF DIAGRAM



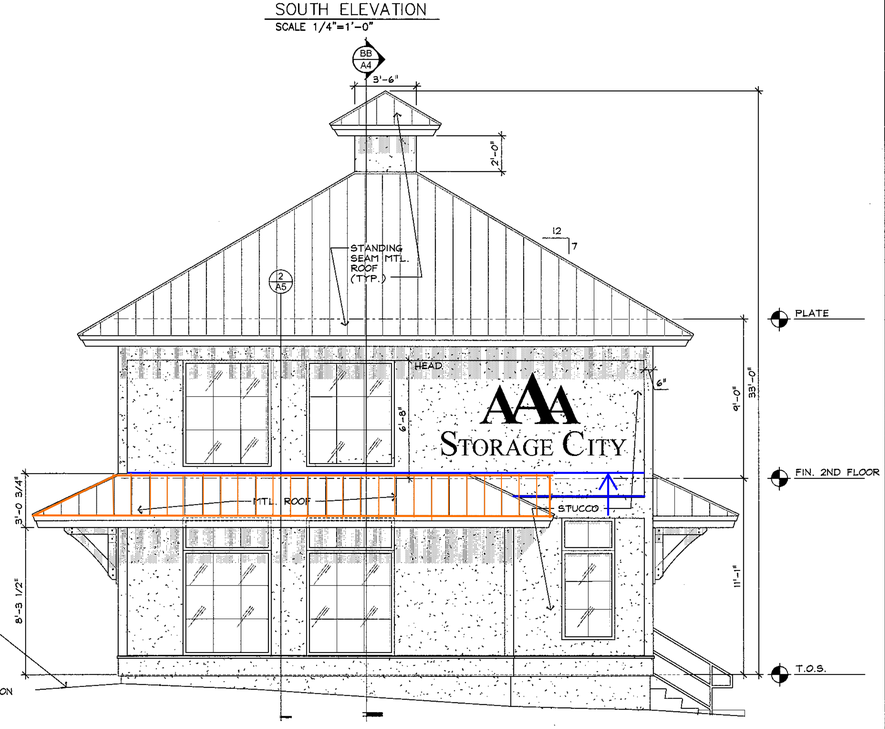
PARKING LOT ELEVATION
SCALE 1/4"=1'-0"



SOUTH ELEVATION
SCALE 1/4"=1'-0"



SAM'S POINT ROAD ELEVATION (EAST)
SCALE 1/4"=1'-0"



NORTH ELEVATION
SCALE 1/4"=1'-0"

ALL DIMENSION AND MEASUREMENTS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE

COPYRIGHT
THIS DRAWING IS THE PROPERTY OF MICHAEL GRIFFITH ARCHITECT AND MAY NOT BE REPRODUCED, COPIED IN WHOLE OR IN PART, OR USED IN ANY WAY WITHOUT PERMISSION FROM AUTHOR. IT IS NOT TO BE USED ON ANY OTHER PROJECT AND IS TO BE RETURNED UPON REQUEST. OWNER AGREES TO HOLD HARMLESS THE ARCHITECT FROM ANY AND ALL LIABILITY ARISING FROM DEFECTS FROM ALTERED DOCUMENTS

REVISIONS

MICHAEL GRIFFITH
Architect
6045 Stratford Oaks Drive
Sebring, FL 33870
863-815-1292

SALES OFFICE - ELEVATIONS

NEW SALES BUILDING FOR:
AAA STORAGE CITY
LADY'S ISLAND
BEAUFORT COUNTY, SC

PROJECT NO: 2014
DRAWN BY: DB
CHECK'D BY: MG
SCALE: AS NOTED
DATE: 3-22-21

ARCHITECTURAL
3

Design Review Board Meeting Staff Report

From the Department of Community and Economic Development
8 April 2021

1 Summary of Request

AAA Residential Storage, PIN R123 014 000 0137, R120 015 000 0116, R200 015 000 0523, 0525 & 0526, with business office and entry located at 15 Sams Point Road.

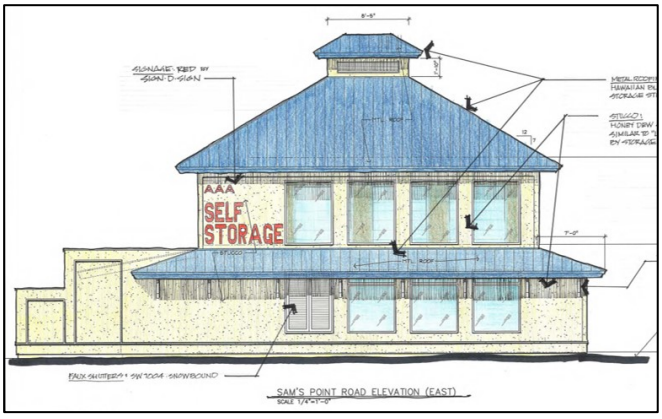
Applicant: J. Michael Brock/M. Brock Designs, LLC, for property owner Lady's Island Storage, LLC (20-16 DRB.1). The applicant is requesting final approval of a Site Plan, Landscape Plan, multi-building storage facility (approximately 89,600 S.F.) and associated 1,236 S.F. office building.

Background:
On February 11, 2020, City Council approved a request to annex the subject parcels R200 015 000 0116 0000, R200 015 000 0526 0000, R200 015 000 0525 0000, R200 015 000 0523 0000 into the City of Beaufort and established the zoning designation of T5-UC for the annexed parcels.

This project was granted preliminary approval on January 14, 2021, subject to staff comments.

2 Facts

Property Addresses:	15 Sams Point Road, 11 William Street and 13, 17 and 19 Mayfair Court
Parcel IDs:	R123 014 000 0137 0000, R120 015 000 0116 0000, R200 015 000 0523 0000, R200 015 000 0525 0000, and R200 015 000 0526 0000
Case Number:	20-16 DRB.1
Applicant:	**J. Michael Brock/M. Brock Designs, LLC**
Zoning:	T5-UC (all properties)
Use:	Multi-building residential storage facility and associated office building



District Development Standards for T5-UC:

- **T5 – UC Setback requirements:**
  - *Front-0' min. – 15' max.*
  - *Rear – 5' min.*
  - *Side Corner/Alley – 0' min – 15' max.*
  - *Side Interior – 0'min.*
- **Impervious Surface Coverage***:* 100% maximum
- **Frontage Build-Out:** 60%

References:
The Beaufort Code

3 STAFF COMMENTS

Staff Acknowledgements:

- As background information, the following acknowledgements are restated from the January 14, 2021, staff report:
    - Per Section 3.8 of the Beaufort Code, the proposed self-service storage facility is included in the industrial use category as a Light Industrial Service.
    - Section 3.8.2.A provides additional standards for industrial uses specific to Self-Service Storage. The applicant's Project Narrative provides a detailed response to these additional standards as follows:
        - The applicant meets the self-service storage screening requirements (Section 3.8.2.A.2.a) by utilizing the rear of the proposed storage buildings (which will exceed 8-ft in height) and supplemental landscaping as identified on the submitted Conceptual Landscape Plan.
        - The applicant meets the self-service storage setback requirements specific to T5-UC and RMX (Section 3.8.2.A.2.c) by providing only the Sales Office Building component of the project adjacent to the public right-of-way. The closest buildings associated with the storage facility are set back more than 225 feet from the public right-of-way. In addition, the proposed Sales Office Building, existing multifamily and commercial buildings along the highway will act similar to liner buildings.
        - The applicant meets the self-service storage building appearance requirements (Section 3.8.2.A.2.d) by providing interior-facing storage unit bay doors. The building material for the storage facility is corrugated metal, which will not be visible from the public street and has been administratively approved as a building material per Section 4.6.3.A.g.
        - The applicant meets the self-service storage fencing requirements (Section 3.8.2.A.2.e) by meeting the fence height requirements where fencing is provided.
        - The applicant meets the self-service storage operational requirements (Section 3.8.2.A.3) by proposing no more than one security or caretaker quarters, and (except for RVs including boats) all property stored on the site is contained entirely within enclosed buildings.
- The Clearing and Demolition Plan identifies existing trees on site and those trees proposed to be removed during the clearing phase of the proposed project. A Certified Arborist Report conforming to the requirements of Section A.1 has been submitted as part of the application. This report will be used to inform tree removal permitting, tree mitigation and tree protection zone requirements.
- The proposed Conceptual Landscape Plan meets the overall minimum requirements of Section 5, more specifically:
    - The applicant meets Section 5.3.1 Tree Coverage requirements; there are no minimum requirements for tree coverage in the T5-UC district.

- The applicant meets Section 5.5.1 Perimeter Buffer Width and Planting requirements; the 5-foot minimum buffer and planting requirements adjacent to any county residential district have been provided.

- The applicant meets Section 5.5.1.B, Corridor Buffers requirements; this section is applicable to the project's Sams Point Road frontage and requires a 20-foot minimum buffer width composed of 3 overstory trees, 6 understory trees and shrub planting coverage of 25% per 100 feet of frontage.

- The applicant meets Section 5.7.8 Parking Lot Screening and Landscaping requirements; the parking areas are screened from the public right-of-way and primary vehicle access point.

- The applicant has submitted a lighting plan demonstrating that the proposed development is in compliance with the maximum lighting height, shielding, and maximum illuminance requirements of Section 5.8, Lighting.

- Utilizing the Institute of Transportation Engineers (ITE) Trip Generation Manual, 7th Edition, staff finds that the proposed use (ITE Land Use Category 151, Mini-warehouse) will not generate more than 50 trips during peak hour on adjacent streets, and therefore will not require a traffic impact analysis (TIA) per Section 7.3.2.

- Staff is in support of the revised canopy design for the RV storage building.

- As noted in the previous staff report for this project, per Section 4.6.3.A.g of the Beaufort Code, "corrugated metal ...may be approved by the Administrator based on the surrounding context and location on the site." The Administrator approves the use of this material, contingent upon approval of the material by the Design Review Board.

- Staff is in support of the proposed lighting fixtures for this project.

- Sales Office Building:

    - The applicant has revised the layout of the Sales Office Building to include a usable entry from the primary frontage line, which is compliant with 2.5.1.D.1-2 and page 21 of the Beaufort Code as referenced in the previous staff report. The applicant is proposing an awning frontage type that is compliant with Section 4.4 of the Beaufort Code.

    - Staff is in support of the changes made to the window design: the added muntins create a greater breakdown of scale, and the elimination of the shutters from the project creates a more authentic design.

    - Staff is in support of the proposed lighting fixtures for this project.

    - Overall, Staff finds the updated drawings of the sales building to be positive.

Staff Conditions:

1. Storage Buildings:

    a. Staff is in support of the gate design submitted for access to the storage buildings. Staff assumes the material of the gate is painted aluminum. Applicant to clarify proposed material.

b. Staff is in support of the materiality and colors proposed for the storage buildings. Staff recommends matching the color of the trim on the storage buildings to the color of the roof of the sales office building. If these are by separate manufacturers, Staff recommends selecting a color that is as close as possible to that of the Sales Office Building roof.

2. Sales Office Building:

   a. Section 4.5.9.2 of the Beaufort Code requires a 75% minimum frontage buildout. With an approved 10% modification to this numerical requirement per section 9.12.1.B of the Beaufort Code, the administrator will allow a 65% minimum frontage buildout for this project. Applicant to ensure and demonstrate compliance with this minimum requirement. The project narrative notes that the sales office building will utilize a paved pedestrian plaza to meet building frontage requirements, however, no pedestrian plaza is noted on the site plan. Applicant to clarify whether or not a pedestrian plaza will be included in the project. If plaza will be included, applicant to submit updated site plan that shows the plaza extents.

   b. Section 4.6.3.C.1 of the Beaufort Code states that "Any commercial or mixed-use building elevation facing a street, waterway, or public space shall include a minimum of 40% of transparent fenestration (windows and doors) on the ground floor and 20% on upper floors." Applicant to demonstrate and ensure compliance with this section of the Code. Staff recommends adding a table to the elevation sheet that illustrates percentage of transparent fenestration.

   c. Section 4.6.3.C.2.a of the Beaufort Code states that "Windows shall not be flush with exterior wall treatments. Windows shall be provided with an architectural surround at the jambs and header, and a projecting sill." Applicant to revise window details to include a projecting sill and comply with this section.

   d. On all elevations, Staff recommends moving the band of trim between the first and second levels up to align with the top of the wing wall on the Sam's Point Road Elevation. See lines in Blue on Staff Diagram.

   e. The Parking Lot Elevation on Architectural Sheet 3 currently shows an awkward roof termination at the lower level. While Staff agrees that the roof wrapping around from the South Elevation to the Parking Lot Elevation is positive, Staff recommends altering the termination of the roof on the Parking Lot Elevation so that it has a gable end condition instead of a hip. Staff recommends terminating the top of this lower roof section directly above the current location of the eave on the Parking Lot Elevation. See lines in Red on Staff Diagram.

   f. On the Parking Lot Elevation on Architectural Sheet 3, Staff also recommends adding another bracket on the right side of the window covered by the lower-level roof.

   g. On the South Elevation, Staff also recommends adding an additional bracket on the other side of the entry door below the lower-level roof.

   h. On the North Elevation on Architectural Sheet 3, Staff recommends terminating the roof on the right side of the elevation without a hip and terminating with a gable end condition instead. See orange lines on Staff Diagram. Applicant to submit cutsheets of proposed windows.

i. Staff still recommends creation of a green wall along the wing wall visible on the Sam's point Road Elevation. This could be achieved by adding a taller hedge or plant behind the proposed Muhly grass and/or by growing greenery on the wall itself.

j. Staff is in support of the use of Azek or Fiber Cement Board trim on this structure, however, all Azek or Fiber Cement Board trim must be smooth and not textured.

k. No cut sheets were submitted for the proposed windows on the project. Staff preference is that the windows are simulated divided light with spacer bars.

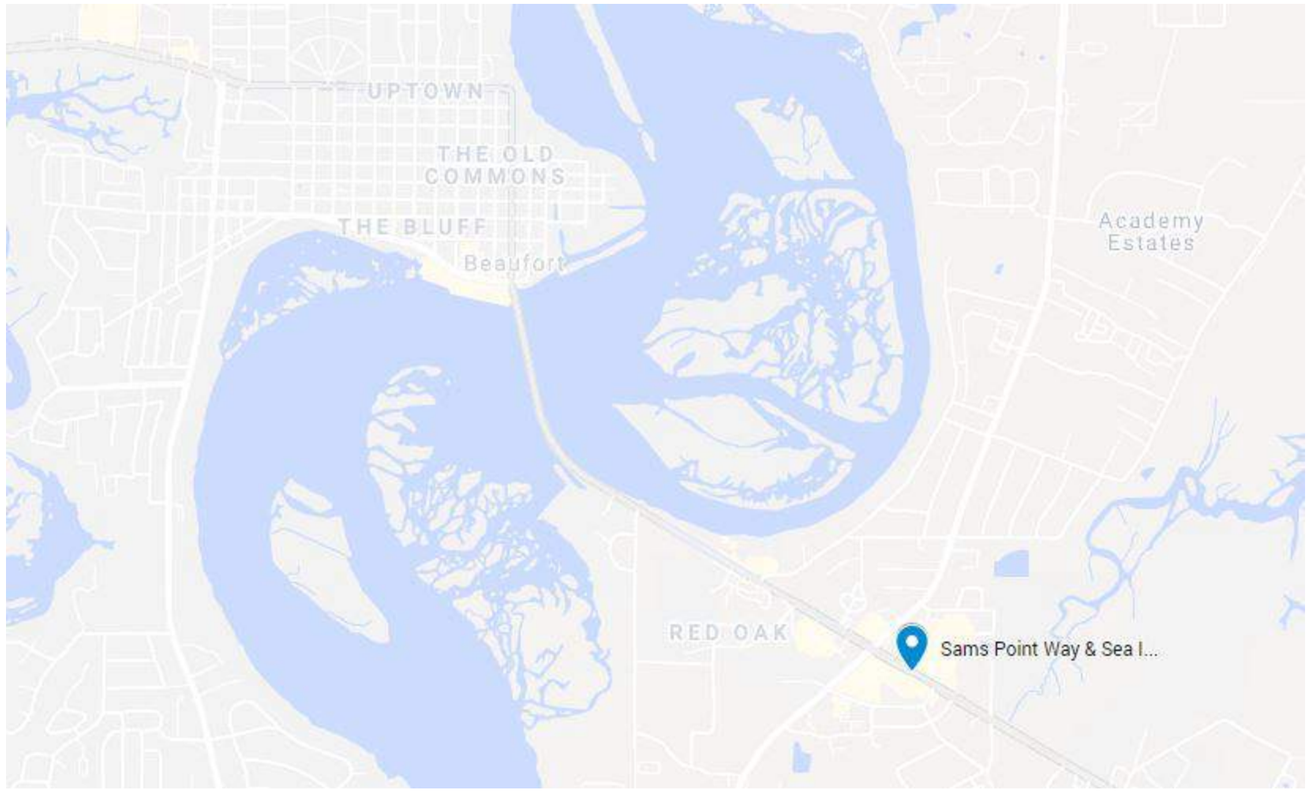
l. The condensing unit outside of the sales office building is not clearly shown on the landscaping plan. Applicant to show this unit on landscaping plan in future submissions.

STAFF RECOMMENDATION:

Final Approval with conditions noted.

CITY STAFF INTRODUCTION

163 SEA ISLAND PARKWAY
SITE AND LANDSCAPING



PROJECT LOCATION - 163 SEA ISLAND PARKWAY









APPLICANT PRESENTATION

163 SEA ISLAND PARKWAY

SITE AND LANDSCAPING

DEVELOPMENT REVIEW PROCESS

DESIGN REVIEW BOARD APPLICATION

Community and Economic Development Department
1911 Boundary Street, Beaufort, South Carolina, 29902
p. (843) 525-7011 / f. (843) 986-5606
www.cityofbeaufort.org

☐ Staff Review
☒ Board Review

Application Fee:
see attached schedule

OFFICE USE ONLY: **Date Filed:** _____ **Application #:** _____ **Zoning District:** _____

Schedule: The Design Review Board (DRB) typically meets the 2nd Thursday of each month at 2pm. Upon receipt of an application, staff will review the submittal and then contact the applicant letting them know when the meeting will be. A complete schedule can be found at: https://www.cityofbeaufort.org/379/Design-Review-Board

Submittal Requirements: All forms and information shall be submitted digitally. In addition to a complete application form, applicants shall submit the required items according to the checklists on the subsequent page.

Review Request: ☐ Conceptual ☐ Preliminary ☑ Final

Pursuant to Section 6-29-1145 of the South Carolina Code of Laws, is this tract or parcel restricted by any recorded covenant that is contrary to, conflicts with, or prohibits the activity described in this application? ☐ Yes ☑ No

Applicant, Property, and Project Information

Applicant Name: Ryan Lyle, PE

Applicant Address: Andrews Engineering, Inc., 2712 Bull St. Suite A, Beaufort SC 29902

Applicant E-mail: ryan@andrews-sc.com Applicant Phone Number: 843-379-2222 x226

Applicant Title: ☐ Homeowner ☐ Tenant ☐ Architect ☑ Engineer ☐ Developer

Owner (if other than the Applicant): Parcel 1 - PINES BEAUFORT LLC, 3301 PONCE DE LEON BLVD, CORAL GABLES, FL 33134

Owner Address: and Parcels 2 and 3- Michael Burdette, Director of Construction, Harris Teeter, 701 Crestdale Road, Matthews NC 28105

Project Name: Harris Teeter Grocery and Convenience Store

Property Address: Intersection of Sams Pt Way and Sea Island Parkway

Property Identification Number *(Tax Map & Parcel Number)*: 1) R123 / 015 / 0587; 2) R123 / 015 / 0587; 3) R123 / 015 / 0592

Date Submitted: 03/11/2021

DEVELOPMENT REVIEW PROCESS
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Community and Economic Development Department
1911 Boundary Street, Beaufort, South Carolina, 29902
p. (843) 525-7011 / f. (843) 986-5606
www.cityofbeaufort.org

Required Project Information

Project Name: Harris Teeter at Ladys Island

Property Size in Acres: 7.74 ac Proposed Building Use: Grocery and Convenience store

Building Square Footage (if multiple buildings, please list each one and their square footage by floor):
55,775sf (Grocery) and 1,704sf (Convenience Store) = 57,479sf Total

# of Parking Spaces Required: 267 # of Parking Spaces Provided: 267

Is this project a redevelopment project: (Y) N

Are there existing buildings on the site? (Y) N if yes, will they remain? Y (N)

Provide a brief Project Narrative and outline any specific questions you would like addressed.

Please see attached narrative.

Applicant's Signature: Date: 03 / 11 / 2021

Owner's Signature: Date: 10-7-20

(The owner's signature is required if the applicant is not the owner.)

CONTACT INFORMATION:

Attention: Julie A. Bachety, Administrative Assistant II
City of Beaufort Department of Planning & Development Services
1911 Boundary Street, Beaufort, South Carolina 29902
E-Mail: jbachety@cityofbeaufort.org: | Phone: (843) 525-7011 | Fax: (843) 986-5606

DESIGN REVIEW BOARD
FEE SCHDULE

(As of July 1, 2020)

BOARD REVIEW FEES:

Single-family residential projects (board review)	$100.00
Multifamily and commercial projects (board review)	$250.00
Change After Certification	$100.00
Demolition (whole structure)	$250.00
Special Board Meeting	$500.00

Post facto applications shall be triple the normal fee.

STAFF REVIEW FEES:

Single Family and 2/3-unit buildings not in a historic district are exempt.

Type 1

Renovations/Improvements (not including additions), ≤ 50% of the value of the structures

Value	Fee
Improvements ≤ $5,000	$50
Improvements > $5,000 but ≤ $25,000	$50 + 0.25% x value above $5,000
Improvements > $25,000	$100 + 0.20% x value above $25,000

Type 2

- Any single-family and 2/3-unit residential addition in a historic district: $50
- All other additions: $500 base fee + $0.05/square foot of addition.

Type 3

Review for new construction and for renovations/improvements totaling over 50% of the value of the structure:

- Single-family and 2-3 unit residential in the historic district
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FEE SCHDULE

(As of July 1, 2020)

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Andrews Engineering & Surveying

March 11, 2021

Mr. Dan Frazier
City of Beaufort
1911 Boundary Street
Beaufort, SC 29902

RE: 150027 Harris Teeter @ Lady's Island –DRB (Site, Landscape, & Lighting)

Mr. Frazier:

Please find enclosed the Final DRB project application package for the revised site, landscape, and lighting. The following items have been provided for your review:

- Final DRB application
- Project Narrative describing modifications from prior final approval
- Site plan
- Landscape
- Lighting plan

We look forward to discussing these changes during the virtual DRB meeting scheduled for Thursday, April 8th, 2021 at City Hall.

Please contact our office at (843) 379-2222 if you have any questions or concerns.

Sincerely,

Ryan Lyle, P.E.

2712 Bull Street, Suite A, Beaufort, SC 29902 · 843.379.2222 · Fax 843.379.2223

03/11/21 HARRIS TEETER GROCERY & C-STORE – CITY OF BEAUFORT - DRB NARRATIVE

Revisions from 2016 Approved Site and Landscape Plans

- Site Plan
    - Harris Teeter footprint: The loading dock orientation on the 2016 plan required trucks to maneuver onto Sam's Point Way in order to back into the dock. The dock configuration has been revised so that the dock doors now face more to the north, allowing for truck movements to occur within the site confines. The truck exit has been relocated to the north, now across from Grayco's entrance.
    - C-Store parcel: The footprint of the Harris Teeter C-Store has increased slightly, with a parking area added to the west of the building to provide additional customer parking. The new layout allows for HT to have a true pedestrian access point along the south side of the building.
    - Slight changes to the lighting and landscaping plans have been made to accommodate the layout changes.
        - On the sidewalk area at the front left corner of the Harris Teeter grocery store, the covered patio area has been increased to accommodate additional seating and a fence has been added to secure this area. The front sidewalk in this area has been cleared for better customer access.
        - Slight modifications to the main parcel landscape plan were made to accommodate the revised dock configuration and rear drive on the grocery store parcel.
        - Slight modifications to the lighting plan and landscaping plan were made to accommodate the layout change.

SITE DEVELOPMENT PLANS FOR

Harris Teeter Fuel

STORE #429 - LADY'S ISLAND
21 SAM'S ROAD
BEAUFORT, BEAUFORT COUNTY, SC 29907

UTILITY AND GOVERNING AGENCIES CONTACT LIST:

PLANNING / ZONING DEPARTMENT

BEAUFORT COUNTY PLANNING DEPARTMENT
100 RIBAUT ROAD, ROOM 115
P.O. DRAWER 1228
BEAUFORT, SC 29901
(843)255-2140 TEL - PLANNING
(843)255-2170 TEL - ZONING

ENGINEERING DEPARTMENT

BEAUFORT COUNTY
ENGINEERING (CAPITAL PROJECT)
2266 BOUNDARY STREET
P.O. BOX 1228
BEAUFORT, SC 29901
(843)255-9420 TEL

EROSION CONTROL

CITY OF BEAUFORT
STORMWATER MANAGEMENT DIVISION
16 BURTON HILL ROAD
BEAUFORT, SC 29906
(843)525-7054 TEL
(843)525-7095 FAX

FIRE MARSHAL

BEAUFORT FIRE DEPARTMENT
ADMINISTRATION OFFICES
135 RIBAUT ROAD
BEAUFORT, SC 29902
(843)525-7055 TEL
(843)525-7031 FAX

ELECTRIC

SCE&G
CHARLOTTE, NC 29401
PAUL THOMPSON
(843) 576-8451

UNDERGROUND STORAGE TANK

SOUTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY - UNDERGROUND STORAGE TANK SECTION
2600 BULL STREET
COLUMBIA, SC 29201
(803)898-0589

TELEPHONE

TELWARE CORPORATION
(704)598-4700 TEL

CABLE TELEVISION / INTERNET

TIME WARNER CABLE
(704)938-5156 TEL

WATER

BEAUFORT COUNTY PUBLIC WORKS
120 SHANKLIN ROAD
BEAUFORT, SOUTH CAROLINA 29906
(843)255-2800 TEL
(843)255-9435 FAX

SANITARY SEWER

BEAUFORT-JASPER WATER AND SEWER AUTHORITY
6 SNAKE ROAD
OKATIE, SC 29909
LIBBY BRELAND
(843)987-8041 TEL

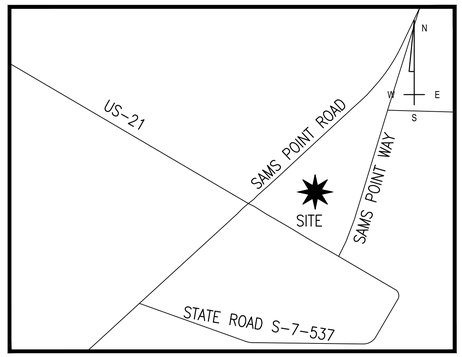
DEPARTMENT OF TRANSPORTATION

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
(843)524-7616 TEL

HARRIS TEETER I.S. DEPARTMENT

GARY CROCKER
NETWORKING MANAGER IS DEPARTMENT
GCROCKER@HARRISTEETER.COM
(704) 844-3990

LANDSCAPING FOR THE FUEL CENTER WILL BE INCLUDED IN THE SITE DEVELOPMENT PLANS FOR HARRIS TEETER PROVIDED BY WITMER JONES KEEFER.



SITE LOCATION MAP

NOT TO SCALE

NOTES:

THE SITEWORK FOR THE CLIENT'S PORTION OF THIS PROJECT SHALL MEET OR EXCEED THE REQUIREMENTS OUTLINED HEREIN.

ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO THE ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTIONS OF SERVICES.

ATTENTION IS DRAWN TO THE FACT THAT THE SCALE OF THESE DRAWINGS MAY HAVE BEEN DISTORTED DURING THE REPRODUCTION PROCESS.

THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY KIMLEY-HORN AND ASSOCIATES, INC. SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC.

THE GENERAL CONTRACTOR SHALL PROVIDE KIMLEY-HORN WITH ANY AS-BUILT DRAWINGS REQUIRED BY THE THE CITY OF BEAUFORT PER THE CITY OF BEAUFORT REQUIREMENTS, A MINIMUM OF 4 WEEKS PRIOR TO OBTAINING THE CERTIFICATE OF OCCUPANCY.

KIMLEY-HORN SHALL HAVE NO LIABILITY WHATSOEVER FOR ANY COSTS ARISING OUT OF THE CLIENT'S DECISION TO OBTAIN BIDS OR PROCEED WITH CONSTRUCTION BEFORE KIMLEY-HORN HAS ISSUED FINAL, FULLY-APPROVED PLANS AND SPECIFICATIONS. THE CLIENT ACKNOWLEDGES THAT ALL PRELIMINARY PLANS ARE SUBJECT TO SUBSTANTIAL REVISION UNTIL PLANS ARE FULLY APPROVED AND ALL PERMITS OBTAINED.

PLEASE REFERENCE TREE PROTECTION AND REMOVAL PLAN AND SITE PLAN SUBMITTED BY ANDREWS ENGINEERING FOR THE FINAL LANDSCAPING PLAN FOR THE ENTIRE SHOPPING CENTER.

SHEET LIST TABLE	
Sheet No.	Sheet Title
C0-0	COVER SHEET
C0-1	EXISTING CONDITIONS
C0-2	GENERAL NOTES
C1-0	EROSION CONTROL PHASE 1
C1-1	EROSION CONTROL PHASE 2
C2-0	OVERALL SITE PLAN
C2-1	FUEL STATION SITE PLAN
C2-2A	FUEL STATION PAVING PLAN
C2-2B	FUEL STATION SITE PLAN - ASPHALT BID ALTERNATIVE
C2-3	FUEL STATION FIXTURE PLAN
C3-0	GRADING AND DRAINAGE PLAN
C3-1	GRADING INSETS AND STORM PROFILES
C3-2	GRADING INSETS AND STORM PROFILES
C4-0	UTILITY PLAN
C4-1	SANITARY SEWER PROFILE
C4-2	CONDUIT ROUTING PLAN
C5-0	EROSION CONTROL DETAILS
C5-1	SITE DETAILS
C5-2	UTILITY DETAILS
C5-3	UTILITY DETAILS

ALERT TO CONTRACTOR

CONTRACTOR SHALL USE ACTIVE SHORING DURING INSTALLATION OF UNDERGROUND STORAGE TANKS.

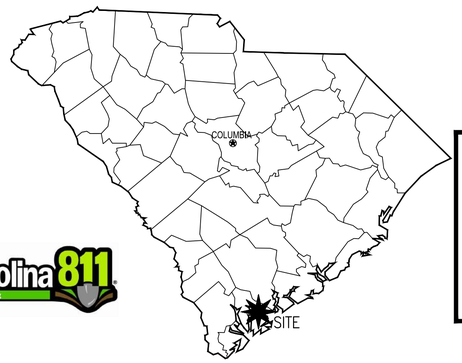
CONTRACTOR SHALL PROVIDE SUBMITTALS FOR, AT A MINIMUM, THE DUMPSTER GATES, IRRIGATION, AND RETAINING WALLS

PREPARED BY:

Kimley»Horn

PROJECT OWNER AND CONSULTANT INFORMATION

OWNER:	ENGINEER:	SURVEYOR:
HARRIS TEETER, LLC. 701 CRESTDALE ROAD MATTHEWS, NORTH CAROLINA 28105 (704) 844-3100 TEL CONTACT: MICHAEL BURDETTE	KIMLEY-HORN AND ASSOCIATES, INC. 200 SOUTH TRYON STREET, SUITE 200 CHARLOTTE, NORTH CAROLINA 28202 (704) 333-5131 TEL CONTACT: MARGARET HOUSTON, P.E.(SC)	ANDREWS ENGINEERING AND SURVEYING 2712 BULL STREET, SUITE A BEAUFORT, SC 29902 (843) 379-2222 TEL (843) 379-2223 FAX CONTACT: JAMES E. HAYES



South Carolina 811 Call 811 Before You Dig

SOUTH CAROLINA — KIMLEY-HORN AND ASSOCIATES, INC — No. C00166 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 36311 — MARGARET HOUSTON

3/4/2021

REV.	DATE	REVISIONS	PAGES

DATE	FILE NUMBER	SHEET NUMBER AND NAME	TOTAL SHEETS
03/04/2021	015640057	C0-0 - COVER SHEET	22

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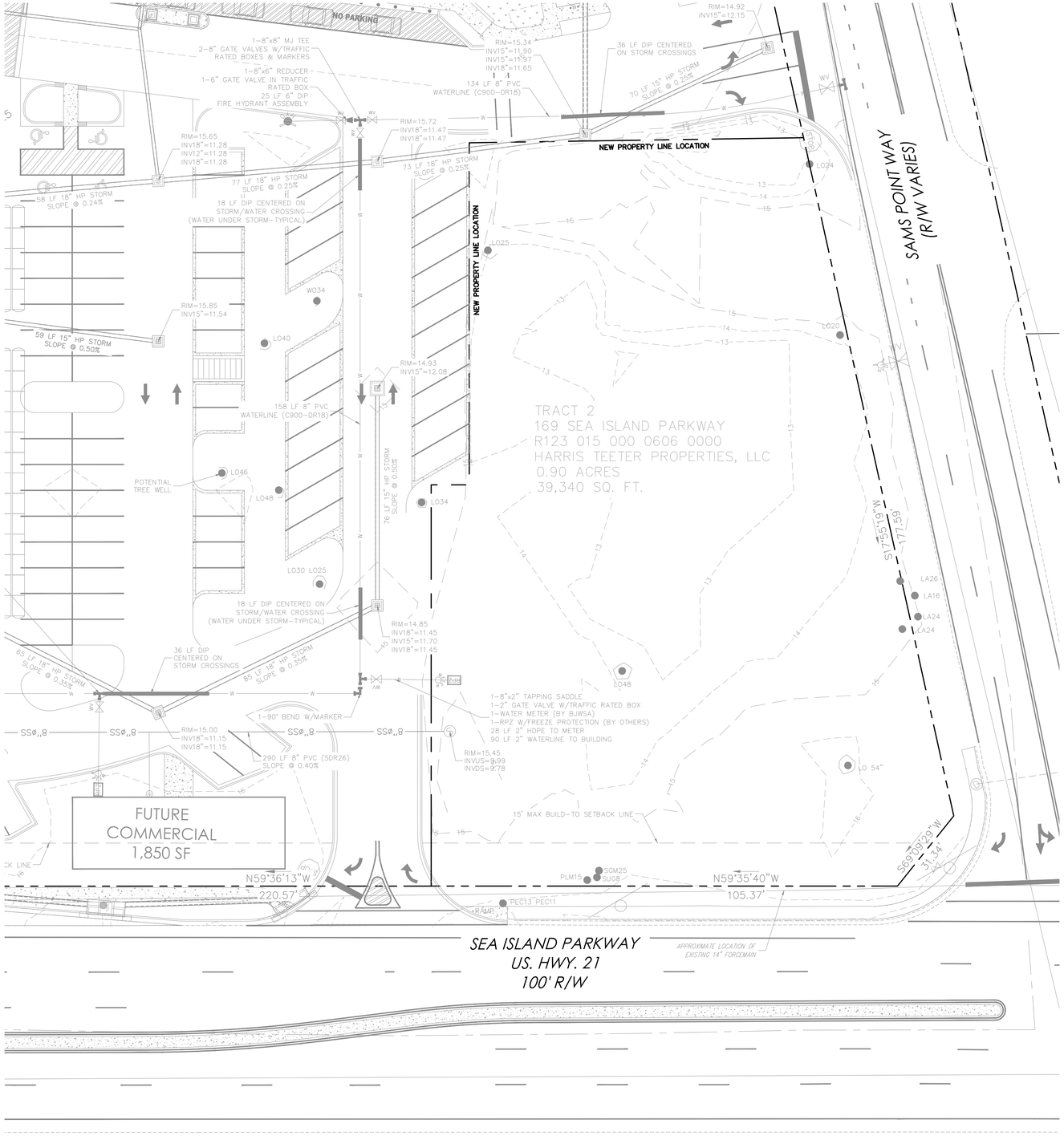

EXISTING CONDITIONS LEGEND	
450	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	EXISTING STORM PIPE
W	EXISTING WATER LINE
8"ØSS	EXISTING SANITARY SEWER LINE
	EXISTING STORM STRUCTURE
	EXISTING FIRE HYDRANT
S	EXISTING SANITARY SEWER STRUCTURE
	EXISTING TREE
OHP	EXISTING OVERHEAD ELECTRIC
	EXISTING 18" CURB AND GUTTER

NOTE

EXISTING CONDITIONS PROVIDED BY ANDREWS ENGINEERING DEVELOPMENT PLANS TITLED "SITE DEVELOPMENT PLAN FOR HARRIS TEETER AT LADY'S ISLAND" DATED 02/03/21.

GRAPHIC SCALE IN FEET
0 10 20 40

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SC License #C-00166
200 SOUTH TRYON ST.
SUITE 200
CHARLOTTE, NC 28202
PHONE: (704) 333-5131

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SOUTH CAROLINA REGISTERED CORPORATION KIMLEY-HORN AND ASSOCIATES, INC No. C00166 STATE OF AUTHORIZATION

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 36311 MEGAN G. FITZSIMMONS 3/4/2021

NO.	DATE	REVISIONS

CLIENT: HARRIS TEETER

PROJECT: HARRIS TEETER FUEL CENTER
STORE #429 - LADY'S ISLAND
21 SAM'S POINT ROAD
BEAUFORT, SOUTH CAROLINA 29907
BEAUFORT COUNTY

TITLE: EXISTING CONDITIONS

DESIGNED BY:	MGF
DRAWN BY:	SEM
CHECKED BY:	MJH
DATE:	03/04/2021
PROJECT#:	015640057

C0-1

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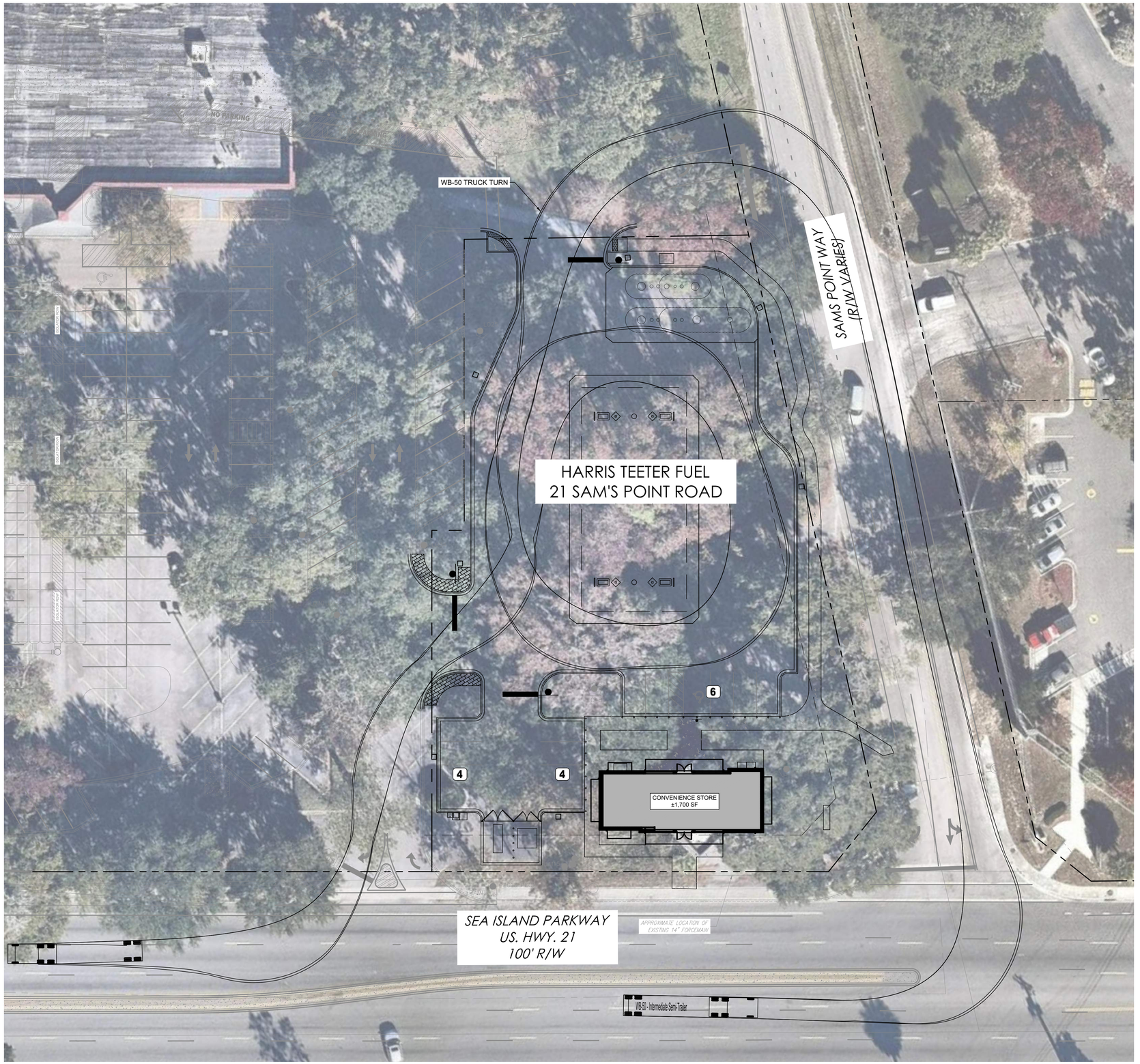
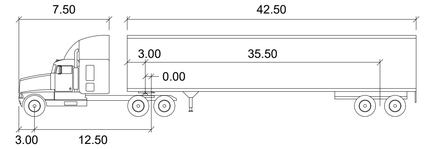
March 04, 2021 - 4:30pm By: Megan.Fitzsimmons
K:\CHL_PRJ\015640 harris teeter\057 lady's island, beaufort, sc fuel center\02 - DWG\plotsheets\C0-1 SURVEY.dwg

March 04, 2021 - 4:31pm By: Megan.Fitzsimmons





WB-50	feet		
Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 17.7
Tractor Track	: 8.00	Articulating Angle	: 70.0
Trailer Track	: 8.50		

ZONING CODE SUMMARY

PROJECT NAME:	STORE #429 - LADY'S ISLAND
CLIENT NAME:	HARRIS TEETER, LLC.
PHONE#	(704)844-3100
PLANS PREPARED BY:	KIMLEY-HORN AND ASSOCIATES
PHONE#	(704)333-5131
TAX PARCEL ID:	R123-015-000-0606-0000
STREET ADDRESS:	21 SAM'S STREET BEAUFORT, SC 29907
ZONING:	TRANSECT 5 - URBAN CENTER
PROPOSED USE:	FUEL SALES
CONVENIENCE STORE HEIGHT:	18' - 4"
CANOPY HEIGHT:	19' - 10 1/2 "
LOT SIZE:	1.01 ACRES (PROPOSED)
MAXIMUM BUILDING HEIGHT:	35 FEET
JURISDICTION:	BEAUFORT COUNTY
YARD REQUIREMENTS:	
SETBACK (FRONT):	15 FEET
SIDE YARD (INTERIOR):	0 FEET
SIDE YARD (EXTERIOR):	15 FEET
REAR YARD:	15 FEET

PARKING SUMMARY

PARKING REQUIRED (1 SPACE PER 300 SF):	6 SPACES
PARKING PROVIDED:	14 SPACES

OPEN SPACE SUMMARY

TOTAL SITE AREA:	8.22 ACRES (358,048 SF)
EXISTING IMPERVIOUS AREA:	3.71 ACRES (161,753 SF)
IMPERVIOUS AREA ADDED:	1.35 ACRES (58,608 SF)
TOTAL IMPERVIOUS AREA:	5.07 ACRES (220,631 SF)

GRAPHIC SCALE IN FEET
0 10 20 40

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SUITE 200
CHARLOTTE, NC 28202
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SOUTH CAROLINA
KIMLEY-HORN AND ASSOCIATES, INC
No. C00166
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No. 36311
MEGAN FITZSIMMONS
3/4/2021

NO.	DATE	REVISIONS

CLIENT: HARRIS TEETER

PROJECT:
HARRIS TEETER FUEL CENTER
STORE #429 - LADY'S ISLAND
21 SAM'S POINT ROAD
BEAUFORT, SOUTH CAROLINA 29907
BEAUFORT COUNTY

TITLE: OVERALL SITE PLAN

DESIGNED BY:	MGF
DRAWN BY:	SEM
CHECKED BY:	MJH
DATE:	03/04/2021
PROJECT#:	015640057

C2-0

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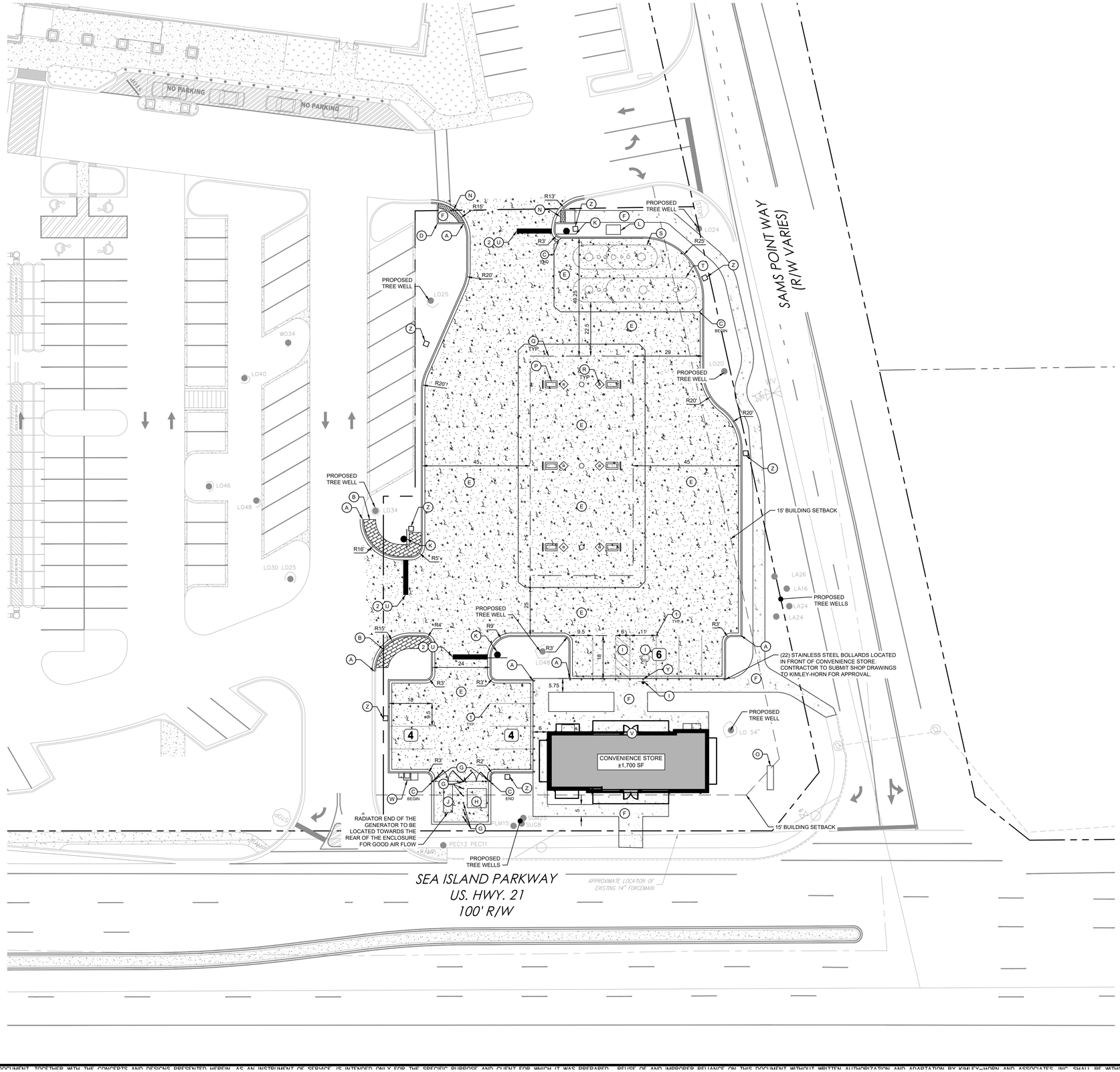

FUEL STATION SITE PLAN LEGEND

	PROPOSED 18" CURB AND GUTTER
A	PROPOSED SITE NOTE
100	PROPOSED PARKING SPACES
	PROPOSED HEAVY DUTY ASPHALT PAVEMENT
	PROPOSED HEAVY DUTY CONCRETE PAVEMENT
	PROPOSED STANDARD DUTY CONCRETE PAVEMENT
	PROPOSED CONVENIENCE STORE
	PROPOSED CANOPY
	PROPOSED UNDERGROUND STORAGE TANK

SITE NOTES

1. ALL DIMENSIONS ARE BASED FROM FACE OF CURB TO FACE OF CURB UNLESS OTHERWISE NOTED.
2. SEE EXISTING CONDITIONS SHEET FOR COMPLETE BOUNDARY DESCRIPTION , ADJOINING PROPERTIES, ZONING AND USE.
3. SEE GENERAL NOTES SHEET FOR SITE PLAN AND ZONING NOTES.
4. THIS SITE IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA ACCORDING TO THE INSURANCE RATE MAP, FIRM PANEL 3710550700J DATED NOVEMBER 5, 2008.
5. ALL ON-SITE STRIPING IS TO BE SHERWIN-WILLIAMS HOTLINE WITH GLASS BEADS.
6. CONTRACTOR SHALL USE MP1 CAULK TO SEAL AROUND KIOSK.
7. CONTRACTOR SHALL USE POLYUREA FLOOR SEALANT ON ALL ON SITE CONCRETE.
8. CONTRACTOR TO USE SILTANIUM FOR ALL TILE IN RESTROOM
9. PLEASE REFERENCE TREE PROTECTION AND REMOVAL PLAN AND SITE PLAN SUBMITTED BY ANDREWS ENGINEERING FOR THE FINAL LANDSCAPING PLAN FOR THE ENTIRE SHOPPING CENTER.

SITE LEGEND

- (A) 18" CONCRETE CURB AND GUTTER TYPICAL (SEE SITE DETAIL SHEET)
- (B) RADIUS PROTECTOR (SEE DETAIL SHEET)
- (C) INTEGRATED CONCRETE CURB (SEE SITE DETAIL SHEET)
- (D) 6" VERTICAL CURB
- (E) HEAVY DUTY CONCRETE PAVEMENT (SEE SITE DETAIL SHEET)
- (F) STANDARD DUTY CONCRETE SIDEWALK (SEE SITE DETAIL SHEET)
- (G) 6"Ø PIPE BOLLARD WITH GLASS CITY BOLLARD SLEEVE PAINTED YELLOW (SEE SITE DETAIL SHEET)
- (H) DUMPSTER ENCLOSURE WITH GATES (SEE SITE DETAIL SHEET)
- (I) ACCESSIBLE PARKING SPACE TYPICAL. SEE SITE DETAIL SHEET FOR ACCESSIBLE PARKING SPACE SIZE AND SIGN ("VAN"-INDICATES VAN ACCESSIBLE SPACE)
- (J) GENERATOR ENCLOSURE WITH GATES (SEE CONVENIENCE STORE BUILDING PLANS FOR GENERATOR SPECIFICATIONS)
- (K) "STOP" SIGN. (SEE SITE DETAIL SHEET)
- (L) 4' x 6' CONCRETE PAD FOR VENT STACKS. VENT STACKS SHALL BE PAINTED BRONZE TO MATCH SITE LIGHTING POLES. (SEE UNDERGROUND STORAGE TANK PLANS BY GALLOWAY)
- (M) ADA PEDESTRIAN CROSSWALK (SEE SITE DETAIL SHEET) - NOT USED
- (N) HANDICAP ACCESSIBLE RAMP (SEE SITE DETAIL SHEET)
- (O) MONUMENT SIGN (SEE SITE SIGNAGE PLANS BY CASCO SIGNS)
- (P) DISPENSER (SEE UNDERGROUND STORAGE TANK PLANS BY GALLOWAY)
- (Q) OVERHEAD CANOPY (SEE CANOPY AND CANOPY LIGHTING PLANS BY MCGEE CORPORATION)
- (R) CANOPY COLUMN (SEE CANOPY COLUMN BRICK MASONRY WRAP SHEET)
- (S) 18,000 GALLON SPLIT FUEL TANK (10,000 DIESEL AND 8,000 ETHANOL FREE) (SEE UNDERGROUND STORAGE TANK PLANS BY GALLOWAY)
- (T) 28,000 GALLON FUEL TANK (20,000 REGULAR AND 8,000 PREMIUM) (SEE UNDERGROUND STORAGE TANK PLANS BY GALLOWAY)
- (U) STOP BAR (SEE SITE DETAIL SHEET)
- (V) CONVENIENCE STORE (SEE CONVENIENCE STORE PLANS BY BONDURANT ASSOCIATES)
- (W) 8' X 3' CONCRETE PAD FOR TRASH CAN, YARD HYDRANT, AND AIR/VAC
- (X) EXISTING MONUMENT SIGN TO REMAIN - NOT USED
- (Y) 6"Ø PIPE BOLLARD WITH GLASS CITY BOLLARD SLEEVE PAINTED BLUE (SEE SITE DETAIL SHEET)
- (Z) LIGHT POLE BASE (SEE STRUCTURAL SHEETS)

STRIPING LEGEND

- (1) SINGLE WHITE SOLID LINE / 4" WIDE
- (2) SINGLE WHITE SOLID LINE / 24" WIDE

LANDSCAPING FOR THE FUEL CENTER WILL BE INCLUDED IN THE SITE DEVELOPMENT PLANS FOR HARRIS TEETER PROVIDED BY WITMER JONES KEEFER.

GRAPHIC SCALE IN FEET
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SUITE 200
CHARLOTTE, NC 28202
PHONE: (704) 333-5131
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SOUTH CAROLINA
KIMLEY-HORN AND ASSOCIATES, INC
No. C00166
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No. 36311
MATTHEW G. FITZSIMMONS
3/4/2021

NO.	DATE	REVISIONS

CLIENT: HARRIS TEETER

PROJECT: HARRIS TEETER FUEL CENTER
STORE #429 - LADY'S ISLAND
21 SAM'S POINT ROAD
BEAUFORT, SOUTH CAROLINA 29907
BEAUFORT COUNTY

TITLE: FUEL STATION SITE PLAN

DESIGNED BY:	MGF
DRAWN BY:	SEM
CHECKED BY:	MJH
DATE:	03/04/2021
PROJECT#:	015640057

C2-1

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March 04, 2021 - 4:31pm By: Megan.Fitzsimmons
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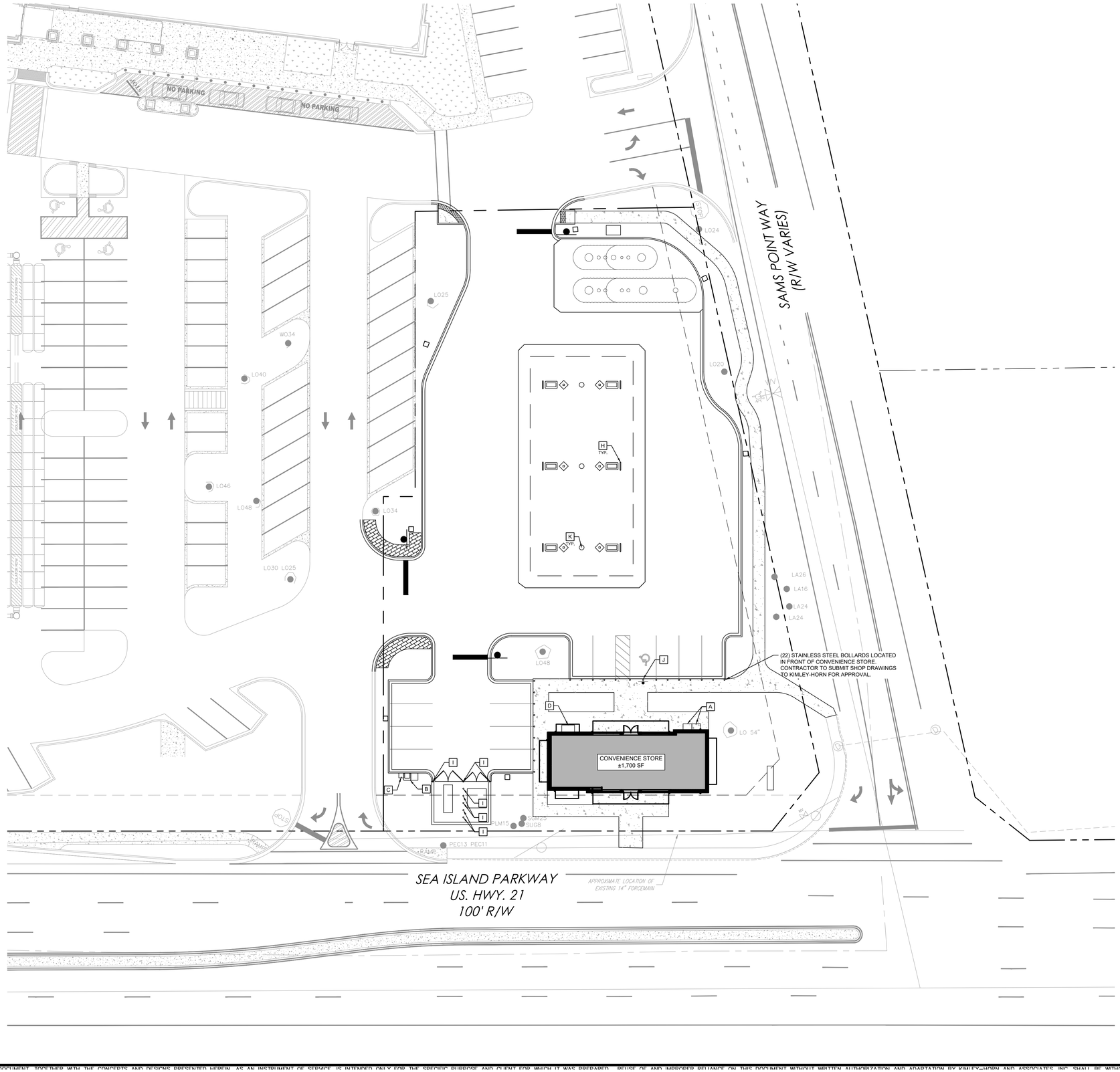

FIXTURE LEGEND	
A	PROPANE CAGE BY BLUE RHINO (SEE ANS)
B	AIR/VAC BY AIR-SERVE, LLC. (SEE DETAIL SHEET)
C	FREEZELESS YARD HYDRANT (MODEL W34) BY WOODFORD (SEE ANS)
D	OUTDOOR ICE MERCHANDISER (MODEL 60C/A) BY LEER (SEE ANS)
E	GLASS DOOR MERCHANDISER (MODEL: GDM-23-LD) BY TRUE FOOD SERVICE EQUIPMENT, INC. (SEE ANS) - NOT USED
F	GLASS DOOR MERCHANDISER (MODEL: GDM-10-LD) BY TRUE FOOD SERVICE EQUIPMENT, INC. (SEE ANS) - NOT USED
G	GENERAL MERCHANDISE AND SWEET AND SAVORY SNACK (SEE ANS) - NOT USED
H	U-SHAPED STAINLESS STEEL BOLLARD (SEE ANS)
I	YELLOW BOLLARD SLEEVE BY GLASS CITY PLASTICS (SEE DETAIL SHEET)
J	BLUE BOLLARD SLEEVE BY GLASS CITY PLASTICS (SEE DETAIL SHEET)
K	LANDMARK SERIES WASTE RECEPTACLES/WINDSHEILD WIPER UNITS (SEE ANS)

BILL OF MATERIAL	
QUANTITY	ITEM
2	PROPANE CAGE
1	AIR/VAC
1	FREEZELESS YARD HYDRANT
1	OUTDOOR ICE MERCHANDISER
0	GLASS DOOR MERCHANDISER (MODEL: DM-23-LD)
0	GLASS DOOR MERCHANDISER (MODEL: GDM-10-LD)
0	GENERAL MERCHANDISE AND SWEET AND SAVORY SNACKS
6	U-SHAPED STAINLESS STEEL BOLLARD
9	BOLLARD SLEEVE
3	BOLLWASTE RECEPTICLE / WINDSHIELD WIPER UNIT

ALERT TO CONTRACTOR:

CONTRACTOR TO PROTECT STAINLESS STEEL BOLLARDS DURING INSTALLATION. CONTRACTOR TO PROTECT BOLLARDS WITH BLANKETS OR OTHER NECESSARY MEANS TO PREVENT SCRATCHING, SCUFFING, OR FORMS OF DAMAGE. IN THE EVENT THAT ANY BOLLARDS ARE DAMAGED, IT WILL BE THE CONTRACTORS SOLE RESPONSIBILITY TO REPLACE THEM AT COST.

GRAPHIC SCALE IN FEET
0 10 20 40

NORTH

South Carolina 811
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200 SOUTH TRYON ST.
SUITE 200
CHARLOTTE, NC 28202
PHONE: (704) 333-5131

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SOUTH CAROLINA KIMLEY-HORN AND ASSOCIATES, INC No. C00166 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 36311 MARGARET HOUSTON
3/4/2021

NO.	DATE	REVISIONS

CLIENT: HARRIS TEETER

PROJECT: HARRIS TEETER FUEL CENTER
STORE #429 - LADY'S ISLAND
21 SAM'S POINT ROAD
BEAUFORT, SOUTH CAROLINA 29907
BEAUFORT COUNTY

TITLE: FUEL STATION FIXTURE PLAN

DESIGNED BY:	MGF
DRAWN BY:	SEM
CHECKED BY:	MJH
DATE:	03/04/2021
PROJECT#:	015640057

C2-3

March 04, 2021 - 4:31pm By: Megan.Fitzsimmons

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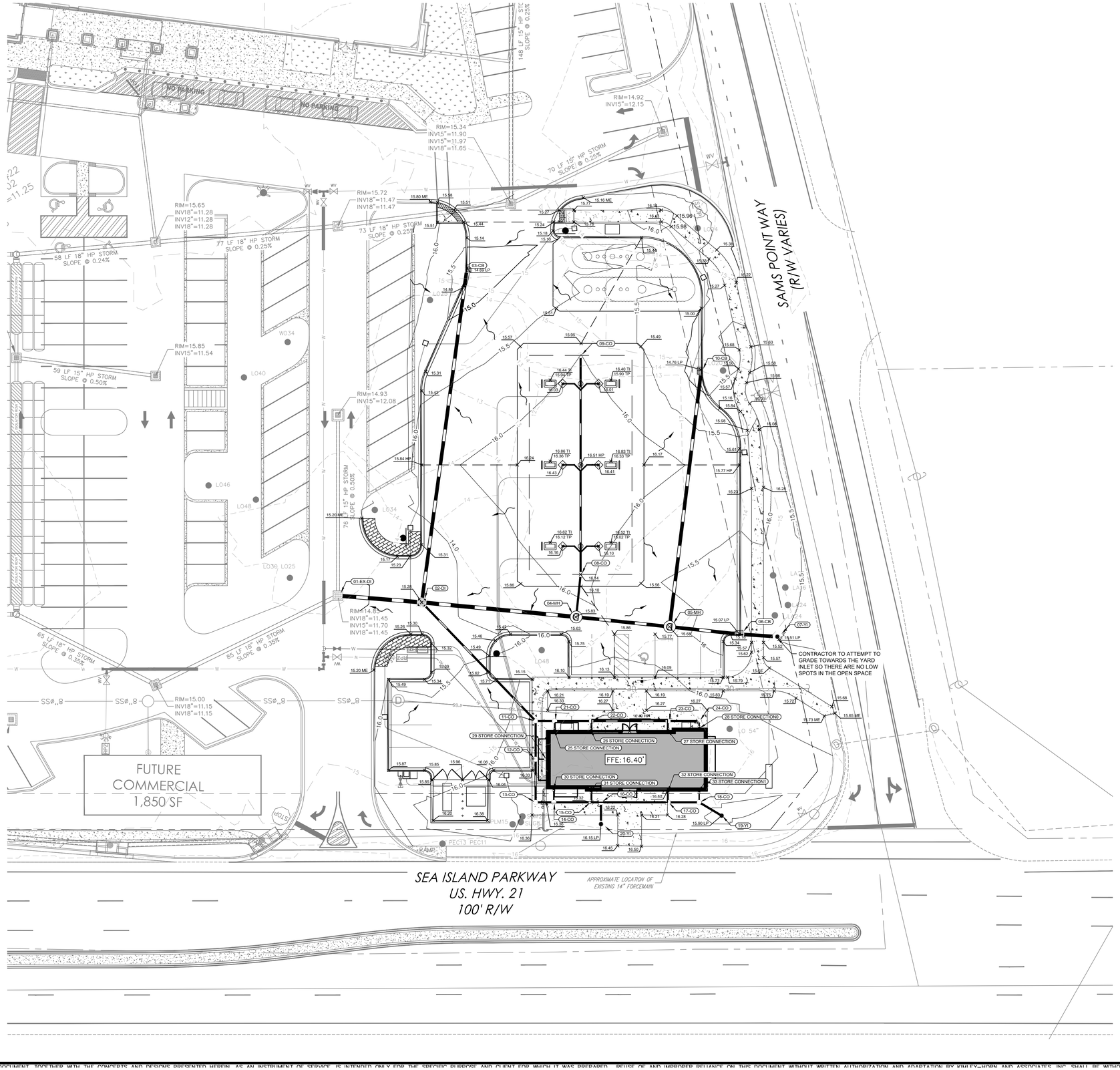

GRADING AND DRAINAGE LEGEND

10	PROPOSED MAJOR CONTOUR
8	PROPOSED MINOR CONTOUR
6.25	PROPOSED SPOT - FINISHED GRADE
6.71 HP	PROPOSED SPOT - HIGH POINT
6.71 LP	PROPOSED SPOT - LOW POINT
6.71 TI	PROPOSED SPOT - TOP OF ISLAND
XX–XX	STORM STRUCTURE LABEL
Ⓓ □	STORM STRUCTURE
	PROPOSED STORM PIPE
	EXISTING STORM PIPE
	FLOW DIRECTION

GRADING NOTES

1. SEE GENERAL NOTES SHEET FOR OVERALL PAVING, GRADING AND DRAINAGE NOTES.
2. CONTRACTOR SHALL REVIEW, UNDERSTAND AND IMPLEMENT ALL REQUIRED EROSION AND SEDIMENTATION CONTROL MEASURES PRIOR TO ANY DISTURBANCE.
3. ALL SPOT ELEVATIONS ALONG PAVEMENT REPRESENT FINISHED GRADE ELEVATION UNLESS OTHERWISE NOTED.
4. ALL PROPOSED STORM PIPE TO BE CLASS III RCP UNLESS OTHERWISE NOTED.
5. ALL STRUCTURES SHALL BE ADJUSTED AS NECESSARY TO BE FLUSH WITH FINAL PAVEMENT.
6. ALL CONNECTIONS BETWEEN PROPOSED STORM STRUCTURES AND O-RING PIPE SHALL HAVE WATERTIGHT CONNECTIONS.
7. INLET PROTECTION - CONTRACTOR SHALL PROVIDE CATCH BASIN INLET PROTECTION ON ALL EXISTING AND PROPOSED INLETS UNTIL CONTRIBUTING DRAINAGE AREAS ARE STABILIZED.
8. CONTRACTOR SHALL PROVIDE SMOOTH TRANSITION BETWEEN PROPOSED PAVEMENT AND EXISTING PAVEMENT AND STORM STRUCTURES
9. ALL DRAINAGE STRUCTURES SHALL BE CONSTRUCTED WITH (4) SIDED BEARING HEAVY DUTY H-20 RATED TRAFFIC RIMS AND GRATES
10. ALL CLEANOUT COVERS SHOULD BE RATED FOR HEAVY DUTY TRAFFIC.
11. CONTRACTOR SHALL COORDINATE PAVING IMPROVEMENTS TO AVOID TIRE MARKS FROM CONSTRUCTION ACTIVITY. FINAL PAVING SHALL BE AS SMOOTH AS POSSIBLE AND FREE FROM ANY PARKS, SCRAPED, GOUGED, TIRE MARKS, ETC. CAUSED DURING CONSTRUCTION.
12. DURING CONSTRUCTION AND AFTER FINAL GRADING, NO SURFACE WATER RUNOFF MAY BE DIRECTED TO ADJACENT PROPERTIES, AND ALL SURFACE WATER RUNOFF MUST BE ROUTED TO APPROVED DRAINAGE FACILITIES OR BE RETAINED ON SITE. ALL RUNOFF FROM THE SITE, BOTH DURING AND AFTER CONSTRUCTION, MUST BE FREE OF POLLUTANTS, INCLUDING SEDIMENT, PRIOR TO DISCHARGE.
13. ALL SCHEDULE 40 PVC IS TO BE USED ON PROJECT. THERE SHALL BE NO CELL-CORE USED DURING CONSTRUCTION.
14. RIM ELEVATIONS OF CURB INLETS EQUALS THE FLOW LINE OF THE GUTTER PAN. RIM ELEVATIONS OF DROP INLETS, MANHOLES, AND CLEANOUTS EQUALS THE CENTER OF GRATE OR LID ELEVATION.

STORM DRAINAGE ABBREVIATIONS LIST

(SEE LATEST SCDOT STDS. MANUAL AND DETAIL SHEETS)

CB	CATCH BASIN (SCDOT STDS. 719.001, .01, .02, .04,.46, .66) US FOUNDRY 5181 FRAME & HOOD AND US FOUNDRY 6003 GRATE
RD	ROOF DRAIN (REF: ARCH/MEP)
CO	CLEAN-OUT (SEE DETAIL SHEET)
EX-CB	EXISTING CATCH BASIN

ALERT TO CONTRACTOR

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE. WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.

GRAPHIC SCALE IN FEET
0 10 20 40

NORTH

Kimley»Horn
SC License #C-00166
200 SOUTH TRYON ST.
SUITE 200
CHARLOTTE, NC 28202
PHONE: (704) 333-5131
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SOUTH CAROLINA — KIMLEY-HORN AND ASSOCIATES, INC — No. C00166 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 36311 — MATTHEW J. HOWARD

3/4/2021

NO.	DATE	REVISIONS

CLIENT: HARRIS TEETER

PROJECT: HARRIS TEETER FUEL CENTER
STORE #429 - LADY'S ISLAND
21 SAM'S POINT ROAD
BEAUFORT, SOUTH CAROLINA 29907
BEAUFORT COUNTY

TITLE: GRADING AND DRAINAGE PLAN

DESIGNED BY:	MGF
DRAWN BY:	SEM
CHECKED BY:	MJH
DATE:	03/04/2021
PROJECT#:	015640057

C3-0

South Carolina 811 Call 811 Before You Dig

March 04, 2021 - 4:32pm By: Megan.Fitzsimmons

K:\CHL_PRJ\015640 harris teeter\057 lady's island, beaufort, sc fuel center\02 - DWG\plansheets\C3-0 GRADING AND DRAINAGE PLAN.dwg

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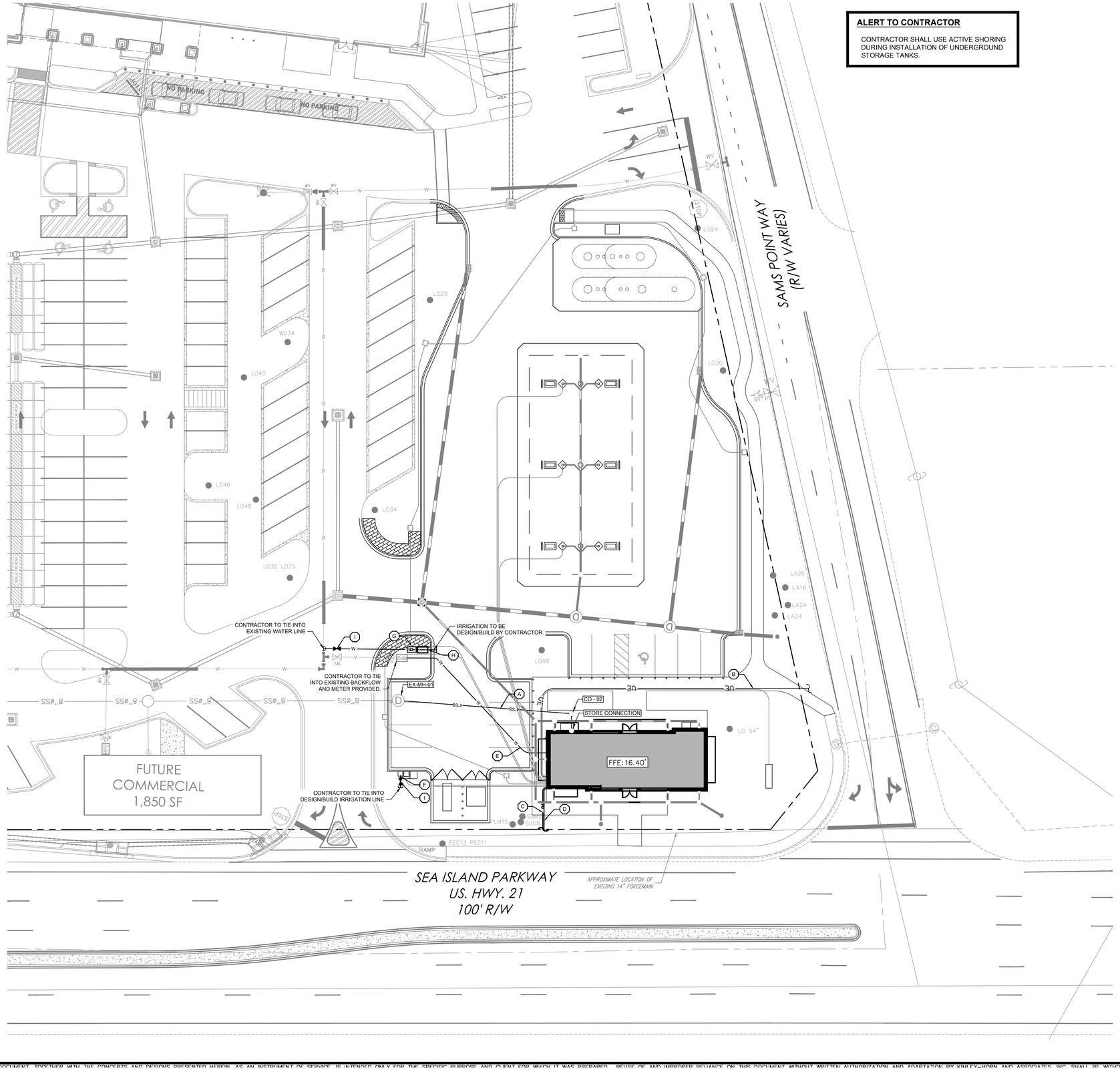

ALERT TO CONTRACTOR

CONTRACTOR SHALL USE ACTIVE SHORING DURING INSTALLATION OF UNDERGROUND STORAGE TANKS.

UTILITY LEGEND	
UE — UE	PROPOSED UNDERGROUIND ELECTRIC
SS	PROPOSED SANITARY SEWER
	PROPOSED STORM SEWER
T — T	PROPOSED TELEPHONE
W — W	PROPOSED DOMESTIC WATER
W — W	PROPOSED IRRIGATION
FO	PROPOSED FIBER OPTIC CABLE

UTILITY NOTES

1. SEE GENERAL NOTES SHEET FOR ADDITIONAL UTILITY NOTES
2. ALL BACKFLOW AND METER TYPES TO BE APPROVED BY THE TOWN OF BEAUFORT ENGINEERING DEPARTMENT.
3. CAST IRON SLIDE COVERS MUST BE USED ON ALL CLEANOUTS LOCATED IN PAVED AREAS.
4. ALL APPLICABLE WATER/SEWER IMPACT AND METER FEES MUST BE PAID BY CONTRACTOR BEFORE ANY BUILDING PERMITS ARE ISSUED.

SANITARY SEWER NOTES

1. CONTRACTOR TO COORDINATE WITH THE TOWN OF BEAUFORT ENGINEERING DEPARTMENT AND PAY FOR TIE-IN TO THE TOWN OF BEAUFORT SANITARY SEWER PROPOSED FOR THIS PROJECT.
2. CONTRACTOR TO LOCATE LATERAL CONNECTIONS TO BUILDING PER PLUMBING PLANS.
3. PLACE CLEAN-OUTS ON SANITARY SEWER LATERALS AS REQUIRED BY PLUMBING CODE.
4. TRENCHES FOR SEWER LATERALS MUST REMAIN OPEN FOR PLUMBING INSPECTION.

WATER DISTRIBUTION NOTES

1. CONTRACTOR TO LOCATE TIE-INS TO ALL BUILDINGS BASED ON PLUMBING PLANS.
2. ALL WATER METERS SHALL BE INSTALLED IN THE GROUND PURSUANT TO THE SPECIFICATIONS OF THE TOWN OF BEAUFORT IN A LOCATION THAT WILL BE EASY TO ACCESS BY REPRESENTATIVES OF THE TOWN OF BEAUFORT UNLESS AN EXCEPTION SHALL BE GRANTED.

UTILITY LEGEND

(A) 4" PVC SANITARY SEWER LATERAL AT MINIMUM 1.00% SLOPE. COORDINATE WITH PLUMBING PLANS

(B) PROPOSED APPROXIMATE LOCATION OF UNDERGROUND ELECTRIC TO BE INSTALLED. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ELECTRIC COMPANY (DUKE ENERGY) BEFORE THE INSTALLATION OF UNDERGROUND ELECTRIC LINES ON EXACT LOCATION AND INSTALLATION PROCEDURES.

(C) PROPOSED APPROXIMATE LOCATION OF UNDERGROUND FIBER OPTIC CABLE TO BE INSTALLED. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH CABLE COMPANY COMPANY (VERIZON) BEFORE THE INSTALLATION OF UNDERGROUND FIBER OPTIC CABLE ON EXACT LOCATION AND INSTALLATION PROCEDURES.

(D) (2) 2" UNDERGROUND TELEPHONE CONDUITS TO BE EXTENDED BY TELEPHONE COMPANY. CONTRACTOR TO PROVIDE & INSTALL CONDUIT. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH TELEPHONE COMPANY (TELWARE) FOR EXACT LOCATIONS AND INSTALLATION OF UNDERGROUND TELEPHONE LINES

(E) 1.25" PEX WATER SUPPLY LINE. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ANY APPURTENANCES ON THE DOMESTIC LINE SUCH AS BACKFLOW PREVENTION DEVICES, GATE VALVES, ETC., WHICH MAY BE REQUIRED. CONTRACTOR TO COORDINATE WITH BEAUFORT COUNTY PUBLIC WORKS. MINIMUM 3' BURY DEPTH.

(F) 1.25" PEX WATER LINE TO FREEZELESS YARD HYDRANT. MINIMUM 3' BURY DEPTH.

(G) 1.25" WATER METER

(H) 1.25" ABOVE GROUND REDUCED PRESSURE ZONE BACKFLOW PREVENTION ASSEMBLY WITHIN HOT BOX WITH HEAT TAPE INSTALLED PER BEAUFORT COUNTY PUBLIC WORKS REQUIREMENTS. ENCLOSURE TO INCLUDE DRAIN PORT(S) WITH 12" OF DRAIN ROCKS BELOW ENCLOSURE.

(I) 1.25" VALVE BOX WITH BALL VALVE

GRAPHIC SCALE IN FEET
0 10 20 40

NORTH

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SUITE 200
CHARLOTTE, NC 28202
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SOUTH CAROLINA REGISTERED CORPORATION KIMLEY-HORN AND ASSOCIATES, INC No. C00166 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 36311 MATTHEW J. HOWARD

3/4/2021

NO.	DATE	REVISIONS

CLIENT: HARRIS TEETER

PROJECT: HARRIS TEETER FUEL CENTER
STORE #429 - LADY'S ISLAND
21 SAM'S POINT ROAD
BEAUFORT, SOUTH CAROLINA 29907
BEAUFORT COUNTY

TITLE: UTILITY PLAN

DESIGNED BY:	MGF
DRAWN BY:	SEM
CHECKED BY:	MJH
DATE:	03/04/2021
PROJECT#:	015640057

C4-0

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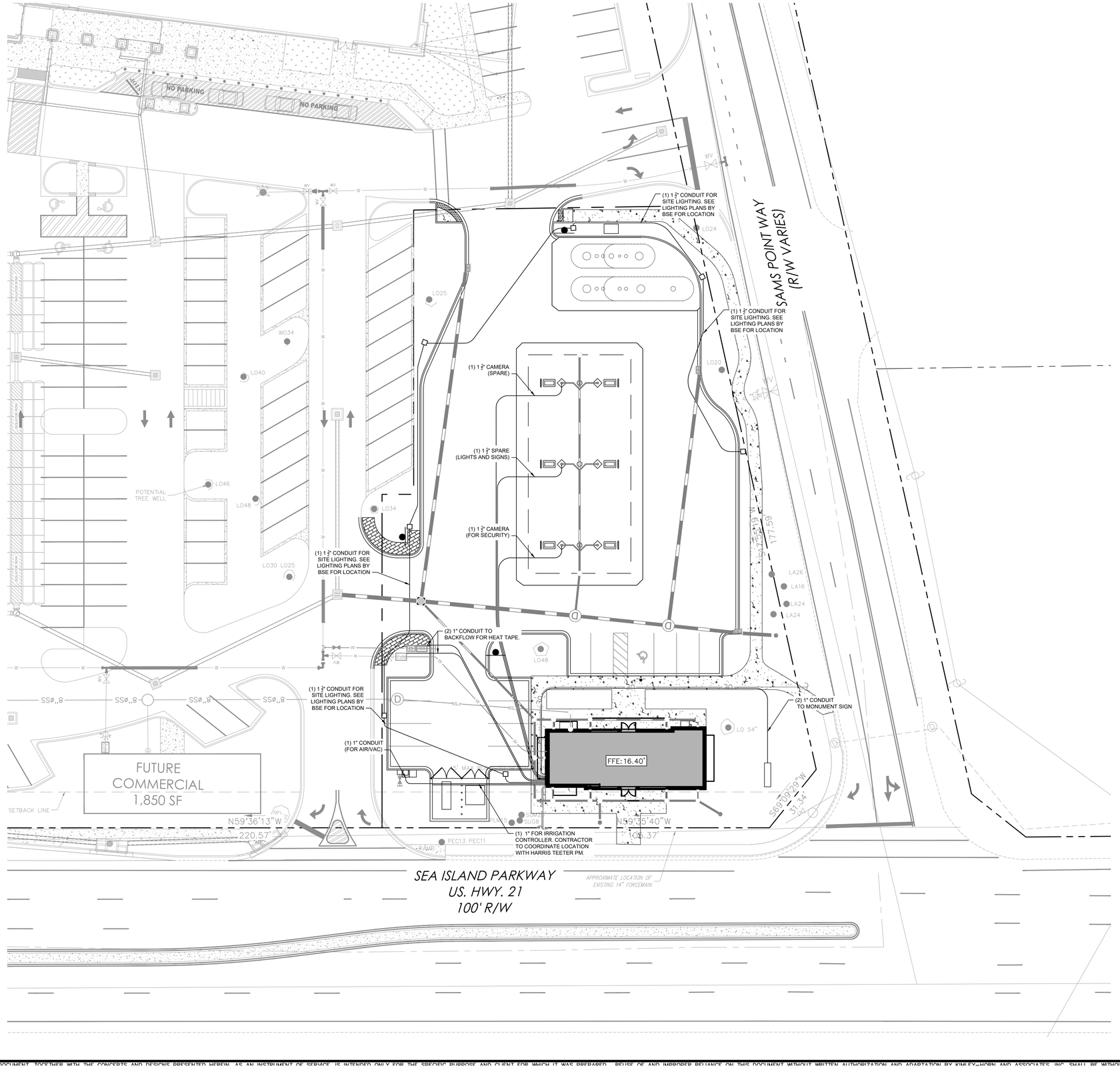

CONDUIT ROUTING NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND/OR REPLACEMENT OF ANY ITEMS OR EXISTING IMPROVEMENTS (NOT SCHEDULED FOR DEMOLITION) WHICH ARE DAMAGED DURING CONSTRUCTION.
2. CONTRACTOR SHALL PROTECT EXISTING PLANT MATERIAL NOT DESIGNATED FOR REMOVAL FROM DAMAGE DURING CONSTRUCTION.
3. CONTRACTOR SHALL PLACE CONDUITS AT A MINIMUM DEPTH OF 3 FT.
4. CONDUITS SHALL BE MADE OF SCHEDULE 40 PVC.

NOTE: SEE GALLOWAY DRAWINGS FOR CONDUIT ROUTING TO MPD'S AND UST'S.

GRAPHIC SCALE IN FEET
0 10 20 40

NORTH

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SC License #C-00166
200 SOUTH TRYON ST.
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SOUTH CAROLINA KIMLEY-HORN AND ASSOCIATES, INC No. C00166 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 36311 MARGARET HOUSTON
3/4/2021

NO.	DATE	REVISIONS

CLIENT: HARRIS TEETER

PROJECT: HARRIS TEETER FUEL CENTER STORE #429 - LADY'S ISLAND
21 SAM'S POINT ROAD
BEAUFORT, SOUTH CAROLINA 29907
BEAUFORT COUNTY

TITLE: CONDUIT ROUTING PLAN

DESIGNED BY:	MGF
DRAWN BY:	SEM
CHECKED BY:	MJH
DATE:	03/04/2021
PROJECT#:	015640057

C4-2

March 04, 2021 - 4:32pm By: Megan.Fitzsimmons

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Daniel Keefer

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Witmer-Jones-Keefer, Ltd. 20160331

Thursday, March 31, 2016

Witmer-Jones-Keefer, Ltd.
Mr. Daniel Keefer
23 Promenade St.
Suite 201
Bluffton, SC 29910

Estimator: Ronnie Reiselt

Worksite: Harris Teeter
Beaufort, SC 29907

We hereby submit specifications and estimates for:

	Description	
0	Trees	**Tree Evaluation and Recommendation** The following report is in regards to trees in the parking lot and green space areas. It will reflect the current condition of trees as dated today using the ANSI A300 (Part 9) Standards. General description. Category A: Slight defects with a low risk of failure. Category B: Moderate defects with a reasonable risk of failure. Category C: Severe defects with a high risk of failure. Category D: Critical defects with an inherent risk of failure. Trees by their inherent nature, can pose a risk to the environment that surrounds them. All trees not recommended for removal should have crown cleaning performed removing obvious deadwood, crossed, rubbing, or crowded branches. All trees not recommended for removal should be put on a fertilization program using the ANSI A300 (Part 2) Standards.
1	Tree	**Tree Evaluation and Recommendation** Concerning fourteen Laurel Oak trees, 5 Pine trees and 2 Sweet Gum trees located in the center of the paved parking area. Trees are in poor condition. Rating (B). Major died back in the upper canopies.
2	Live Oak	**Tree Evaluation and Recommendation** Concerning two 15" Live Oak trees located on the northwest side of parking lot. Trees are in good condition, rating (A). Minor pruning will need to be done for motor vehicle access.

Our arborists are always ISA certified:
Ronnie Reiselt Certification # SO-1382A
Sonya Reiselt Cerification # SO-1383A
Thomas Hunt Certification # SO-6016A

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www.southerntreeservices.com

3 Laurel Oak

Tree Evaluation and Recommendation

Concerning two Laurel Oak trees 21'' and 18'' located in the southwest corner of parking lot. Trees are in good condition, rating (A). Minor pruning needed, elevating and crown cleaning.

4 Pine

Tree Evaluation and Recommendation

Concerning one 22'' Pine tree located on the west side of parking lot. Tree is in good condition, rating (B). Lightning protection should be considered given the trees height and being a stand alone tree.

5 Live Oak

Tree Evaluation and Recommendation

Concerning six Live Oak trees located on the east side of parking lot. A 40", 46", 48", 30", 34" and another 34" inch Live Oak tree that is miss marked as a Water Oak tree. These trees are in good condition, rating (A). Minor pruning needed, elevating and crown cleaning.

6 Live Oak

Tree Evaluation and Recommendation

Concerning one 48'' Live Oak tree located on the east side of property. The tree is in good condition with the exception of an old wound. However the wound is healing and there is no active decay. Rating (B). Crown cleaning and tip pruning for weight reduction is recommended. Also the tree is located in a very low area of the property, an aeration system will need to be installed before fill dirt is added for the new parking area.

7 Live Oak

Tree Evaluation and Recommendation

Concerning one 55'' Live Oak tree located on the south east corner of property, this tree is in good condition, rating (A). The tree currently has asphalt covering the majority of the root system , if this asphalt is to be removed great care should be taken to ensure as little damage to the remaining root system as possible. A large organic bed is recommended.

8 Live Oak

Tree Evaluation and Recommendation

Concerning one 24'' Live Oak tree located on the east side of property. This tree is in good condition, rating (A). Prune to remove lower limbs for vehicle access. It appears there will be a significant grade change? If so this tree will require an aeration system.

9 Live Oak

Tree Evaluation and Recommendation

Concerning one 58'' Live Oak tree located on the east side of property. Tree is in good condition rating (B). The tree has a lean of approximately 22 degrees towards the propose parking area. There is significant decay on the opposite side as well as fruiting bodies that may indicate internal decay. This tree is a significant specimen, removal is not recommended. Crown cleaning and selective limb removal should be done for wind and weight reduction. If the grade is to be changed and fill dirt is added, an aeration system should be installed.

10 Magnolia

Tree Evaluation and Recommendation

Concerning one 24'' Magnolia tree located on the east side of property. This tree is in good condition. Rating (A).

11 Laurel Oak

Tree Evaluation and Recommendation

Concerning one 36'' Laurel Oak located on the east side of property. Tree is in poor condition. Rating (D). The tree is severely decayed and is infested with IPS beetles. Tree should be removed.

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12 Cedar

Tree Evaluation and Recommendation

Concerning one 22'' Cedar tree located on the east side of property. Tree is in good condition. Rating (A). Crown cleaning needed.

13 Pine

Tree Evaluation and Recommendation

Concerning one 14'' and one 18'' Pine tree located on the east side of property. Trees are in good condition. Rating (A). If the grade is to be changed by adding fill dirt, and aeration system should be installed.

14 Live Oak

Tree Evaluation and Recommendation

Concerning one 34'' Live Oak tree located on the east side of property. This tree is in fair condition. Rating (B). This tree will require extra pruning for weight reduction on limbs that have been compromised by decay.

15 Live Oak

Tree Evaluation and Recommendation

Concerning one 24'' Live Oak tree located on the northeast corner of property. Tree is in good condition. Rating (A). Crown cleaning needed.

16 Live Oak

Tree Evaluation and Recommendation

Concerning one 26'' Live Oak tree located on the northeast corner of property. Tree is in good condition. Rating (A). Crown cleaning needed.

17 Magnolia

Tree Evaluation and Recommendation

Concerning one 24'' Magnolia tree located on the northeast corner of property. Tree is in good condition. Rating (A). Crown cleaning needed.

18 Laurel Oak

Tree Evaluation and Recommendation

Concerning one 38'' Laurel Oak tree located on the north side of property. Tree is in fair condition. Rating (B). The tree appears to be in fair condition with a healthy canopy. However there are IPS Beatles present. The tree should be treated as soon as possible. An inspection should be done monthly to determine the status of the infestation.

19 Live Oak

Tree Evaluation and Recommendation

Concerning two 20'' Live Oak trees located on the north side of property. Trees are in good condition. Rating (A). Crown cleaning needed.

20 Laurel Oak

Tree Evaluation and Recommendation

Concerning one 26'' Laurel Oak tree located on the northwest corner of property. Tree is in fair condition. Rating (B). There is evidence of decay in the main trunk of the tree. This tree should fare well under normal weather patterns. Excluding strong thunderstorms and hurricanes.

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21 Live Oak

Tree Evaluation and Recommendation

Concerning three Live Oak trees located near the northwest corner of property. Trees are in good condition. Rating (A). Crown cleaning needed. Note the trees are in a very low line area, if fill dirt is added an aeration system will be needed. Recommendation. The use of a continuous retention wall would be ideal.

Respectfully,

Ronnie Reiselt, Jr.
Certified Arborist SO 1382A

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Sonya Reiselt Cerification # SO-1383A
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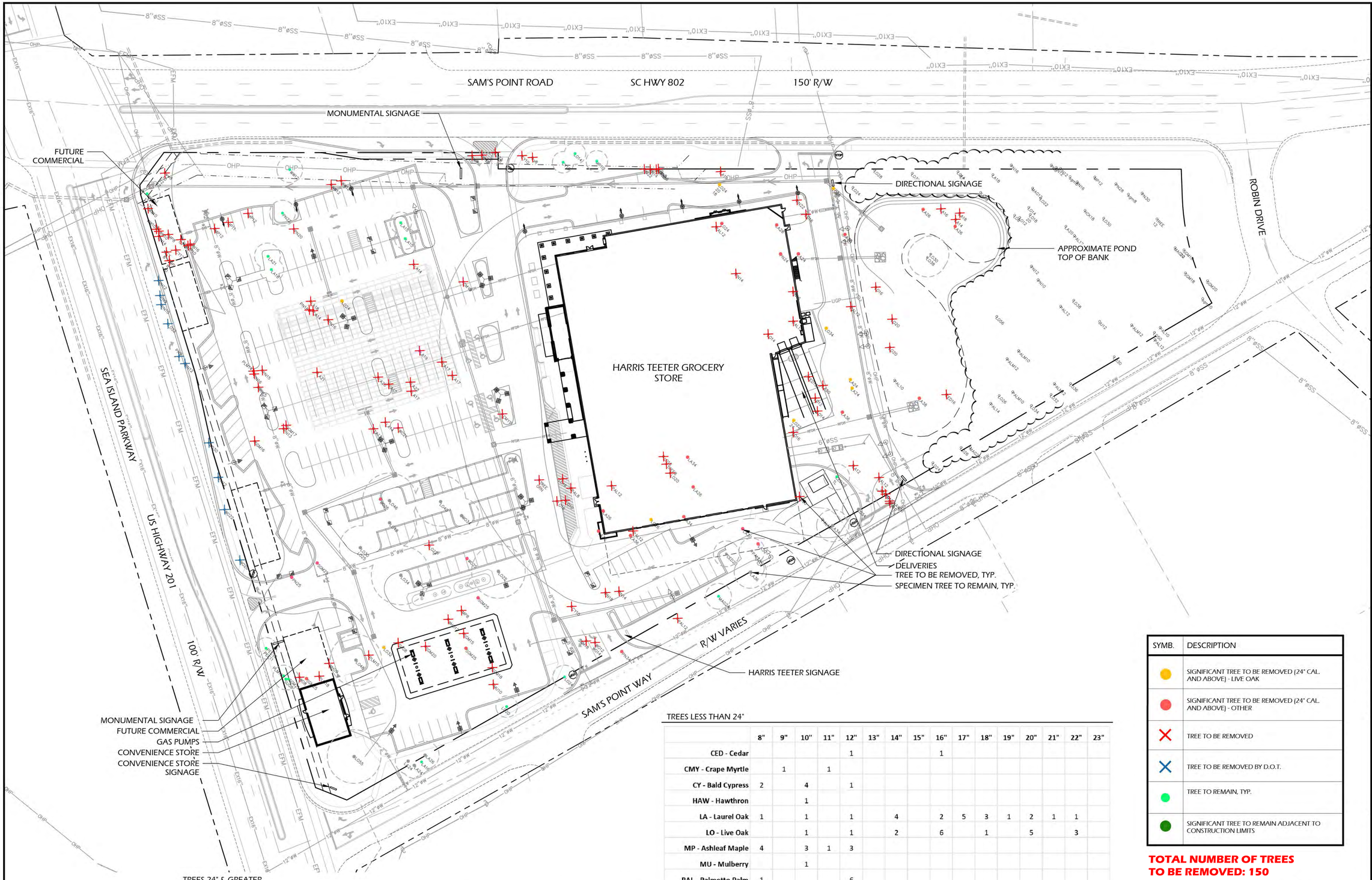


TREES 24" & GREATER

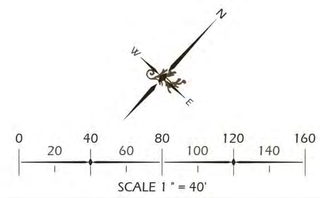
	24"	25"	26"	27"	28"	29"	30"	31"	32"	33"	34"	35"	36"	37"	38"
LA - Laurel Oak	3		6		1		2				2		2		1
LO - Live Oak	4		2						1		1				
PN - Pine	1	1									1				
SGM - Sweetgum		4													
WO - Water Oak		1	1												

TREES LESS THAN 24"

	8"	9"	10"	11"	12"	13"	14"	15"	16"	17"	18"	19"	20"	21"	22"	23"
CED - Cedar					1				1							
CMY - Crape Myrtle		1		1												
CY - Bald Cypress	2		4		1											
HAW - Hawthron			1													
LA - Laurel Oak	1		1		1		4		2	5	3	1	2	1	1	
LO - Live Oak			1		1		2		6		1		5		3	
MP - Ashleaf Maple	4		3	1	3											
MU - Mulberry			1													
PAL - Palmetto Palm	1				6											
PLM - Sabal Palmetto								1			1					
PN - Pine			1		1	1	5	2	4		1		1		2	
SGM - Sweetgum	1		1					1	1	1	2		1			
SU - Sugar Berry	1															
WHO - White Oak		1			1											
WO - Water Oak	1				1		1							1		
WW - Weeping Willow	1		4		4											

SYMB.	DESCRIPTION
	SIGNIFICANT TREE TO BE REMOVED (24" CAL. AND ABOVE) - LIVE OAK
	SIGNIFICANT TREE TO BE REMOVED (24" CAL. AND ABOVE) - OTHER
X	TREE TO BE REMOVED
X	TREE TO BE REMOVED BY D.O.T.
	TREE TO REMAIN, TYP.
	SIGNIFICANT TREE TO REMAIN ADJACENT TO CONSTRUCTION LIMITS

TOTAL NUMBER OF TREES TO BE REMOVED: 150



Wimer, Jones, Keefer Ltd.
landscape architecture
land planning
www.wjkltd.com
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THIS SHEET TO SCALE AT: 24"X36"

SITE DEVELOPMENT PLANS
FOR
HARRIS TEETER
SAM'S POINT ROAD, LADY'S ISLAND
BEAUFORT, SOUTH CAROLINA

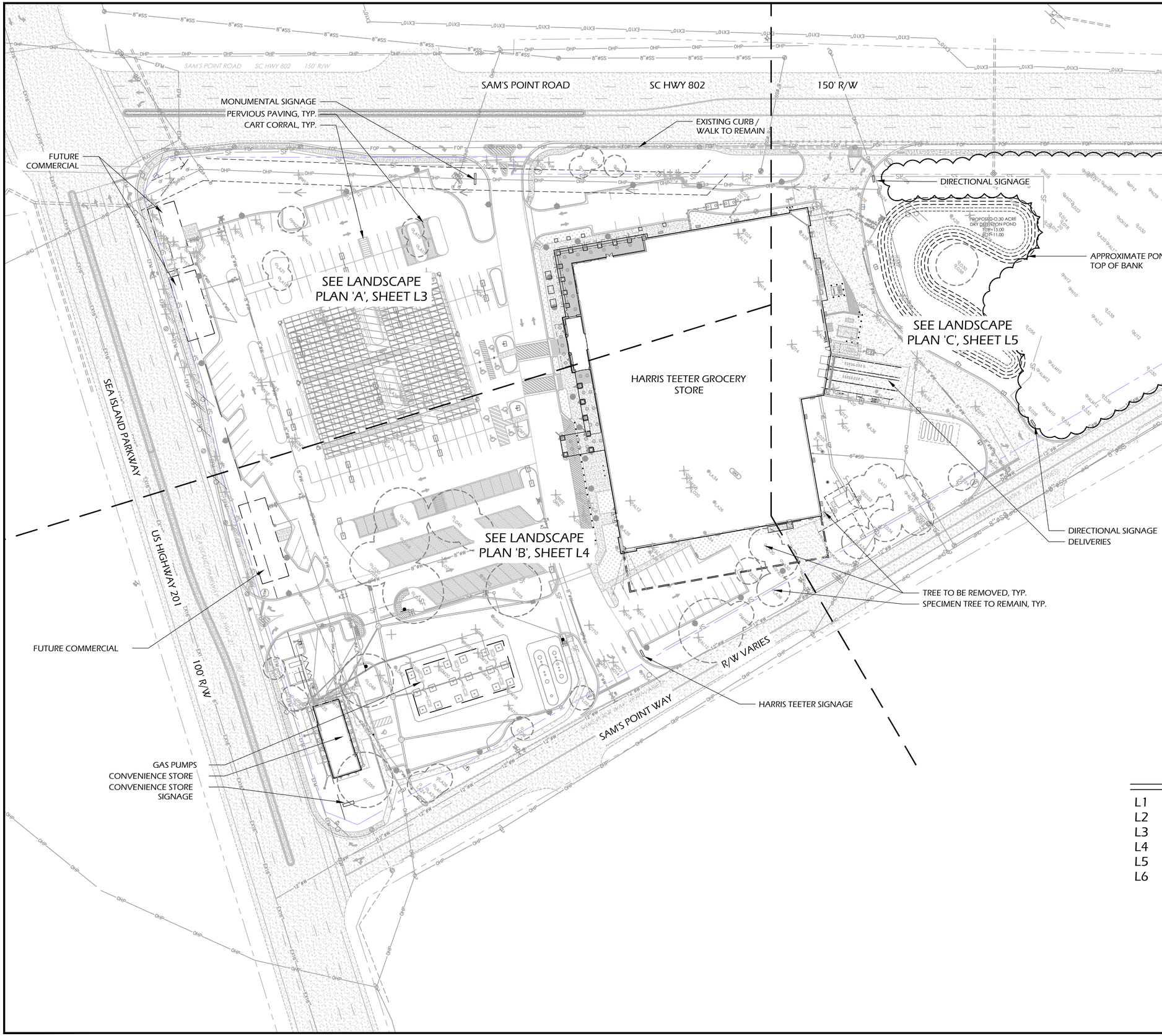
DATE:	11-07-16
PROJECT NO.:	15104.01
DRAWN BY:	MY/JB
CHECKED BY:	DK

DRB SUBMITTAL PLAN, NOT FOR CONSTRUCTION

REVISIONS:

DRAWING TITLE
TREE REMOVAL PLAN

DRAWING NUMBER
L2



SHEET INDEX

L1	-	OVERALL SITE PLAN
L2	-	TREE REMOVAL PLAN
L3	-	LANDSCAPE PLAN 'A'
L4	-	LANDSCAPE PLAN 'B'
L5	-	LANDSCAPE PLAN 'C'
L6	-	PLANT SCHEDULE, DETAILS, & NOTES

0 20 40 60 80 100 120 140 160

SCALE: 1 " = 40'

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SITE DEVELOPMENT PLANS FOR

HARRIS TEETER

SAM'S POINT ROAD, LADY'S ISLAND
BEAUFORT, SOUTH CAROLINA

DATE:	MAR 25, 2021
PROJECT NO.:	15104.01
DRAWN BY:	JM
CHECKED BY:	DK

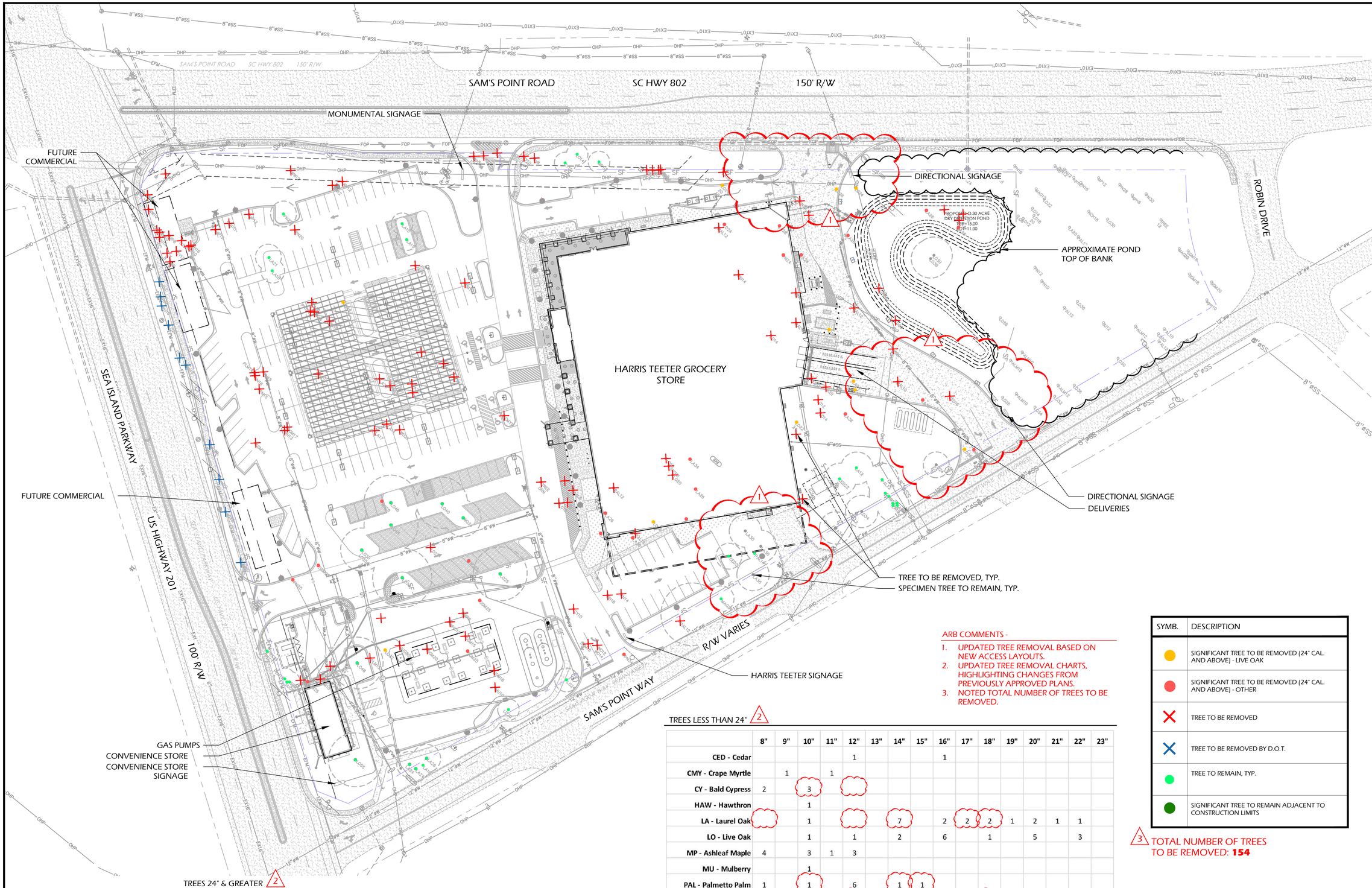
DRB SUBMITTAL PLAN, NOT FOR CONSTRUCTION

REVISIONS:

DRAWING TITLE
OVERALL SITE PLAN

DRAWING NUMBER

L1



ARB COMMENTS -

1. UPDATED TREE REMOVAL BASED ON NEW ACCESS LAYOUTS.
2. UPDATED TREE REMOVAL CHARTS, HIGHLIGHTING CHANGES FROM PREVIOUSLY APPROVED PLANS.
3. NOTED TOTAL NUMBER OF TREES TO BE REMOVED.

TREES 24" & GREATER (2)

	24"	25"	26"	27"	28"	29"	30"	31"	32"	33"	34"	35"	36"	37"	38"
LA - Laurel Oak	3		6		1						2		2		1
LO - Live Oak	5		3						1		1				
PN - Pine	1														
SGM - Sweetgum		4													
WO - Water Oak															

TREES LESS THAN 24" (2)

	8"	9"	10"	11"	12"	13"	14"	15"	16"	17"	18"	19"	20"	21"	22"	23"
CED - Cedar					1				1							
CMY - Crape Myrtle		1		1												
CY - Bald Cypress	2		3													
HAW - Hawthron			1													
LA - Laurel Oak			1				7		2	2	2	1	2	1	1	
LO - Live Oak			1		1		2		6		1		5		3	
MP - Ashleaf Maple	4		3	1	3											
MU - Mulberry			1													
PAL - Palmetto Palm	1		1		6		1	1								
PLM - Sabal Palmetto					1		1	1			2					
PN - Pine		2	1		3	1	3	3	4		2		1		2	
SGM - Sweetgum	1		1					2	1	1	2		1			
SU - Sugar Berry	1															
WHO - White Oak		1			1											
WO - Water Oak	1				1		1							1		
WW - Weeping Willow	1		5		6											

SYMB.	DESCRIPTION
	SIGNIFICANT TREE TO BE REMOVED (24" CAL. AND ABOVE) - LIVE OAK
	SIGNIFICANT TREE TO BE REMOVED (24" CAL. AND ABOVE) - OTHER
X	TREE TO BE REMOVED
X	TREE TO BE REMOVED BY D.O.T.
	TREE TO REMAIN, TYP.
	SIGNIFICANT TREE TO REMAIN ADJACENT TO CONSTRUCTION LIMITS

(3) TOTAL NUMBER OF TREES TO BE REMOVED: **154**

SCALE 1 " = 40'

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THIS SHEET TO SCALE AT: 24"X36"

SITE DEVELOPMENT PLANS
FOR
HARRIS TEETER
SAM'S POINT ROAD, LADY'S ISLAND
BEAUFORT, SOUTH CAROLINA

DATE:	MAR 25, 2021
PROJECT NO.:	15104.01
DRAWN BY:	JM
CHECKED BY:	DK

DRB SUBMITTAL PLAN, NOT FOR CONSTRUCTION

REVISIONS:

DRAWING TITLE
TREE REMOVAL PLAN

DRAWING NUMBER
L2

SAM'S POINT ROAD

SC HWY 802

150' R/W

SEA ISLAND PARKWAY

US HIGHWAY 201

SOD

6 SABP
46 MUHC
3 QUEV
7 SABM

11 LORP
98 ANNL
3 LAGN
14 LORP
25 ILEN

13 ILLF
77 SPAB
3 CHIV

MONUMENTAL SIGNAGE
205 SF ANNL

10 LORC
36 ILEN

3 LAGN
11 LORC
1 QUEH

PERVIOUS PAVING, TYP.
TREE TO REMAIN, TYP.
TREE TO BE REMOVED, TYP.

CART CORRAL

4 ILEV
2 SABP

1 ULMA
73 SPAB

292 TRAA
22 SPAB

1 CERC

17 ILEN
2 QUEH

13 PODP
161 TRAA

FUTURE COMMERCIAL

13 ILEN
2 QUEH

17 SPAB
1 ULMA

211 MUHC
3 QUEV
158 PODM (THIS SHEET)

FIELD LOCATE PLANTS BASED ON LIGHTING LOCATIONS, TYP.

2 QUEH
13 ILEN

71 TRAA
9 ILEN
2 QUEH

FIELD LOCATE PLANTS BASED ON LIGHTING LOCATIONS, TYP.

26 ILEN
5 LORC
2 SABP (18')

2 QUEH
18 ILEN

26 ILEN
5 LORC
2 SABP (18')

5 LORC
25 ILEN
3 LAGN
208 SF ANNL

9 LORC

5 SABP (16')
9 LORP
73 PODM
1 SABP (16')

1 SABP (18')
79 MUHC
2 QUEV
2 SABP (16')

3 SABP (18')
3 LAGN
15 TRAA, IN EACH

8 LORC
17 MUHC

1 SABP
95 MUHC

3 CHIV
2 SABP (18')
10 PODM
7 ILEN

19 MUHC
3 OSMF
1 SABP (16')

HARRIS TEETER GROCERY STORE

SHEET L3
SHEET L4
SHEET L5

SCALE 1 " = 20'

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SITE DEVELOPMENT PLANS
FOR

HARRIS TEETER

SAM'S POINT ROAD, LADY'S ISLAND
BEAUFORT, SOUTH CAROLINA

DATE:	MAR 25, 2021
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CHECKED BY:	DK

DRB SUBMITTAL PLAN, NOT FOR CONSTRUCTION

REVISIONS:

DRAWING TITLE
LANDSCAPE PLAN 'A'

DRAWING NUMBER
L3

HARRIS TEETER GROCERY STORE

SEA ISLAND PARKWAY

US HIGHWAY 201

SAM'S POINT WAY

R/W VARIES

CONVENIENCE STORE

SHEET L3

SHEET L4

SHEET L5

SHEET L4

FIELD LOCATE PLANTS BASED ON LIGHTING LOCATIONS, TYP.

1 SABP (20')
21 ILEN
2 SABP (18')

1 QUEH
14 ILEN
22 ILEN
360 TRAA
2 QUEH

26 ILEN
5 LORC
2 QUEH

18 ILEN
2 QUEH

MULCH ALL DISTURBED AREAS UNDER EXISTING TREES, TYP.

1 QUEV
MUHC
3 SABP
LANDSCAPE SUBJECT TO DOT APPROVAL

SOD

1 SABP
52 SPAB
2 ULMA

SOD

1 QUEH
161 TRAA
75 TRAA
32 MUHC

14 LORC
18 ILEN
11 MUHC
80 SF ANNL

1 QUEH
47 PODM (THIS SHEET)
9 LORC

MULCH ALL DISTURBED AREAS UNDER EXISTING TREES, TYP.

SOD

210 TRAA
36 PODM
165 TRAA

10 PODM
1 CHAH

1 QUEH
23 ILEN

SOD

1 QUEH
7 ILEN
3 CAMS

MULCH ALL DISTURBED AREAS UNDER EXISTING TREES, TYP.

GAS PUMPS, TYP.

1 SABP
1 OSMF
15 BUXM
20 TRAA

SOD

SOD

20 TRAA
11 BUXM
1 OSMF

1 SABP
3 AZAF
CONVENIENCE STORE SIGNAGE
60 VERC

SOD

9 PODM
15 TRAA

14 PODM
1 QUEV
13 AZAF

46 TRAA
70 TRAA
5 VIBS

MULCH ALL DISTURBED AREAS UNDER EXISTING TREES, TYP.

1 QUEV

7 ILEM
5 AZAF
15 PODM

SOD

10 ILEN
30 TRAA

29 TRAA
1 SABP (16')
4 VIBS

25 TRAA
1 SABP (16')
11 VIBS
1 SABP (18')

BIKE RACKS BY OWNER
8 ILEN
1 ULMA
5 ILEN

SOD

8 MUHC
9 MUHC

1 SABP (20')
6 CAMS
4 LORP
1 SABP (16')
4 ILEN

7 ILEN
1 ULMA
2 SABP (16')
22 PODM
4 LORP
42 TRAA

2 SABP (18')

3 MYRC
376 TRAA
49 PODM
7 AZAF
5 ILEM

SOD

6 MUHC
1 SABP
80 SF ANNL

SOD

100 TRAA
2 QUEV

HARRIS TEETER SIGNAGE

EXISTING TREES TO BE REMOVED, TYP.

EXISTING TREES TO REMAIN, TYP.

0 10 20 30 40 50 60 70 80

SCALE 1 " = 20'

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SITE DEVELOPMENT PLANS
FOR

HARRIS TEETER

SAM'S POINT ROAD, LADY'S ISLAND
BEAUFORT, SOUTH CAROLINA

DATE:	MAR 25, 2021
PROJECT NO.:	15104.01
DRAWN BY:	JM
CHECKED BY:	DK

DRB SUBMITTAL PLAN, NOT FOR CONSTRUCTION

REVISIONS:

DRAWING TITLE
LANDSCAPE PLAN 'B'

DRAWING NUMBER
L4

SAM'S POINT ROAD

SC HWY 802

150' R/W

ROBIN DRIVE

SHEET L3

SHEET L5

SHEET L3

SHEET L4

1 SABP
3 VERC
7 ILEN

MUHLY AND PODOCARPUS COUNTS ARE ON SHEET L3

3 VERC
3 MAGL
1 SABP (18')
4 MUHC
5 PODM-1

SOD

5 MUHC
12 SPAB
5 ILEV
3 TAXD

27 SPAB
3 MYRC
3 TAXD

MULCH ALL DISTURBED AREAS UNDER EXISTING TREES, TYP.

POND, REFER TO ENGINEER'S PLANS

FIELD LOCATE PLANTS BASED ON LIGHTING LOCATIONS, TYP.

DELIVERIES

HARRIS TEETER GROCERY STORE

3 MYRC
20 SPAB
3 TAXD
3 QUEV

9 ILEM
5 MYRC
5 ILEM
6 ILEV
1 SABP (18')
1 SABP (16')
5 PODM
80 MUHC

10 VERC DIRECTIONAL SIGNAGE

R/W VARIES

SAM'S POINT WAY

5 ILEV
15 SERR
3 MAGL
3 PODM

SOD

SOD

SPECIMEN TREE TO REMAIN, TYP.

MULCH ALL DISTURBED AREAS BELOW EXISTING TREES TO REMAIN, TYP.

SHEET L5
SHEET L4

0 10 20 30 40 50 60 70 80

SCALE 1 " = 20'

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THIS SHEET TO SCALE AT: 24"X36"

SITE DEVELOPMENT PLANS
FOR

HARRIS TEETER

SAM'S POINT ROAD, LADY'S ISLAND
BEAUFORT, SOUTH CAROLINA

DATE:	MAR 25, 2021
PROJECT NO.:	15104.01
DRAWN BY:	JM
CHECKED BY:	DK

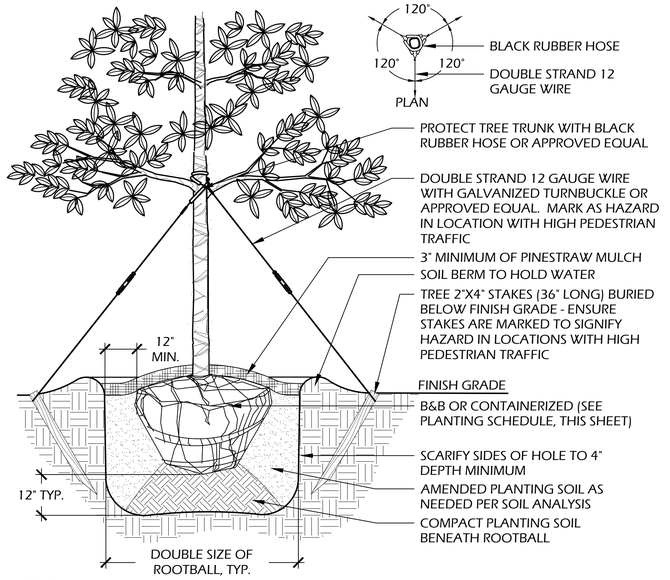
DRB SUBMITTAL PLAN, NOT FOR CONSTRUCTION

REVISIONS:

DRAWING TITLE
LANDSCAPE PLAN 'C'

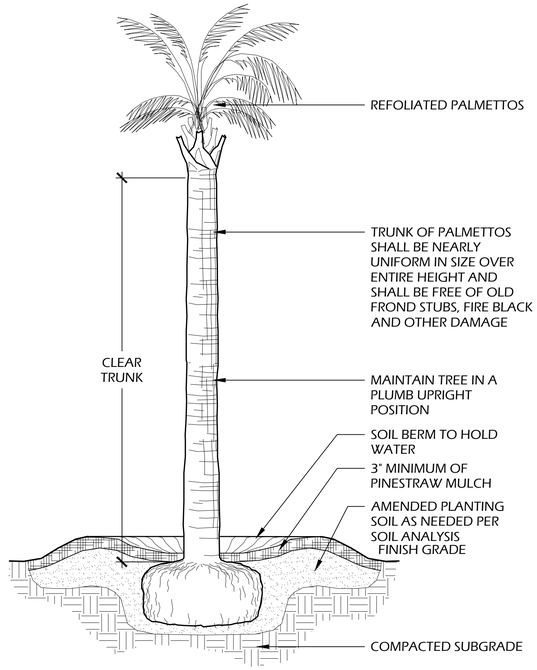
DRAWING NUMBER

L5



NOTES:
1. TREE STAKING OPTIONAL, HOWEVER, LANDSCAPE CONTRACTOR RESPONSIBLE FOR MAINTAINING TREES IN AN UPRIGHT (90 DEGREE/ PERPENDICULAR) POSITION FOR 1 YEAR AFTER PLANTING IS COMPLETE OR UNTIL TREE ROOT SYSTEM IS FULLY ESTABLISHED AND STURDY. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER'S REPRESENTATIVE.
2. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.
3. IN SEMI-IMPERVIOUS SOIL CONDITIONS, ROOTBALL ELEVATION SHALL BE 2" ABOVE FINISH GRADE. COORDINATE WITH OWNER'S REPRESENTATIVE PRIOR TO SETTING ROOTBALL ELEVATIONS.

1 // L501 TREE PLANTING
SCALE: N.T.S.



NOTES:
1. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER OR OWNER'S REPRESENTATIVE,
2. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.
3. SABAL PALMETTOS SHALL BE DEFOLIATED, PROTECT CABBAGE HEAD FROM DAMAGE.

2 // L501 PALM TREE PLANTING
SCALE: N.T.S.

PLANT SCHEDULE

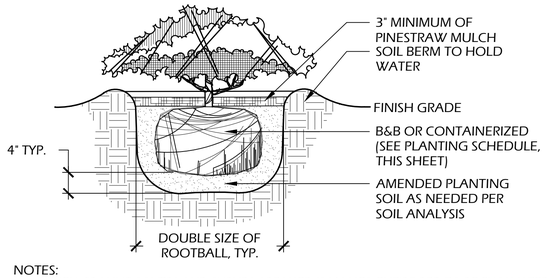
Quantity	Abbrev	Botanical Name	Common Name	Height	Spread	Container	Cal/Spacing	Notes
TREES								
22	QUEH	Quercus virginiana 'Highrise'	Highrise Live Oak	14'-16'	10'-12'	-	3" cal.	Full
17	QUEV	Quercus virginiana	Live Oak	14'-16'	10'-12'	-	3" cal.	Full
51	SABP	Sabal Palmetto	Sabal Palm	12-16'	-	-		Refoliated
9							3" cal.	
6	ULMA	Ulmus parvifolia 'Emer II'	Allee Chinese Elm	14-16'	10'-12'	-	3" cal.	Full
UNDERSTORY TREES								
1								
6								
20								
12	LAGN	Lagerstroemia Indica 'Natchez'	Natchez Crape Myrtle	10'-12'	5'-6'	-	2" cal.	Multi-stem
6								
14	MYRC	Myrica cerifera	Wax Myrtle	4'-5'	4'-5'	15 gal.	-	Full
SHRUBS								
28	AZAF	Azalea indica 'Formosa'	Formosa Azalea	36"	24"			Full
28	BUXM	Buxus microphylla	Dwarf Boxwood	18"	12"		-	
9								
1								
24	ILEM	Ilex x 'Mary Nell'	Mary Nell Holly	6-7'	3-4'		-	Full to base
405	ILEN	Ilex vomitoria 'Nana'	Dwarf Yaupon Holly	12"-18"	12"-18"	3 gal.	-	Full
13	ILLF	Illicium floridanum	Florida Anise	42-48"	36-42"	container	-	
90	LORC	Loropetalum chinense	Fringe Flower	15-18"	15-18"	7 gal.	-	Full
33	LORP	Loropetalum chinense 'Sizzling Pink'	Sizzling Pink Fringe Flower	30"-36"	36"-48"	7 gal.	-	Full
5								
451	PODM	Podocarpus macrophyllus	Podocarpus	36"	18"-24"		-	Full
5	PODM-1	Podocarpus macrophyllus	Podocarpus	8'	3'	7 gal.	-	Full
13								
7	SABM	Sabal minor	Dwarf Palmetto	18"-24"	12"-18"	Cont.		
15								
19	VIBS	Viburnum suspensum	Sandankwa Viburnum	30"-36"	24"-30"	7 gal.	-	Full
ORNAMENTAL GRASSES & FERNS								
622	MUHC	Muhlenbergia capillaris	Pink Muhly Grass	12"-18"	8"-12"	1 gal.	36" O.C.	Full
300	SPAB	Spartina bakeri	Cord Grass	12"-18"	12"-18"	1 gal.	36" O.C.	Pond planting
76	VERC	Verbena canadensis	Verbena	12-18"	12-18"	1 gal.	36" O.C.	
GROUNDCOVERS, VINES & PERENNIALS								
466 SF	ANNL	Seasonal Color	Seasonal Color	4"-6"	4-6"	1 gal.	6" O.C.	Full
2313								
SOD & MULCH								
19900	LAWN-SF		Empire Zoysia Sod	-	-	-	-	
-	LAWN-SF		Seed	-	-	-	-	
-	MULCH-SF	Pinestraw Mulch	All landscape areas					

PLANTING NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR INSPECTION OF EXISTING CONDITIONS, INCLUDING UTILITIES, AND PROMPTLY REPORTING ANY DISCREPANCIES OR CONFLICTS WITH PLANTING AREAS. REPORT INFORMATION TO OWNER, OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT.
2. CONTRACTOR SHALL FIELD LOCATE ALL UTILITIES. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE AND MAKE REPAIRS THAT MAY OCCUR TO EXISTING UTILITIES IN ACCORDANCE WITH NATIONAL, STATE AND LOCAL CODES.
3. LANDSCAPE PLANTING AND / OR MULCHED AREAS TO BE FINE GRADED, HAND RAKED SMOOTH AND FREE OF DEBRIS.
4. CONTRACTOR TO PERFORM SOIL TESTS AS NECESSARY TO ASSURE PLANT HEALTH AND GROWTH.
5. MULCH ALL PLANTING BEDS WITH PINESTRAW MULCH TO A 3" DEPTH.
6. CONTRACTOR VERIFIES THAT ALL PLANT MATERIAL IS DETERMINED AVAILABLE AS SPECIFIED WHEN BID / PROPOSAL IS SUBMITTED.
7. PLANT SCHEDULE WAS PREPARED FOR ESTIMATING PURPOSES ONLY. CONTRACTOR SHALL MAKE OWN QUANTITY TAKEOFFS USING DRAWINGS TO DETERMINE QUANTITIES TO HIS SATISFACTION, REPORTING PROMPTLY ANY DISCREPANCIES WHICH MAY AFFECT BIDDING.
8. GALLON SIZES ARE FOR PRICING PURPOSES ONLY. PLANT MUST MEET HEIGHTS AND WIDTHS SPECIFIED IN PLANT SCHEDULE.
9. ROOT TYPE MAY BE FREELY SUBSTITUTED IN CASE OF BALLED AND BURLAPPED OR CONTAINER GROWN, OTHER SPECIFICATIONS REMAINING UNCHANGED, EXCEPT IN THE CASE OF CONTAINER GROWN SPECIMEN TREES AS INDICATED IN THE TREE PLANTING SCHEDULE.
10. ANY SIGNIFICANT ROOTS ENCOUNTERED 2" DIA. AND LARGER SHALL BE DUG OUT BY HAND AND CLEANLY CUT BACK IN THE FOOTING / FOUNDATION AREA TO PROMOTE ROOT RE-GROWTH AND HELP PREVENT ROOT DIEBACK.
11. ALL PLANT MATERIAL (EXCEPT SEASONAL COLOR) SHALL BE GUARANTEED AND REPLACED AS NECESSARY BY THE CONTRACTOR FOR ONE YEAR.
12. ALL SEASONAL COLOR SHALL BE GUARANTEED AND REPLACED AS NECESSARY BY THE CONTRACTOR FOR THREE MONTH TIME FRAMES.

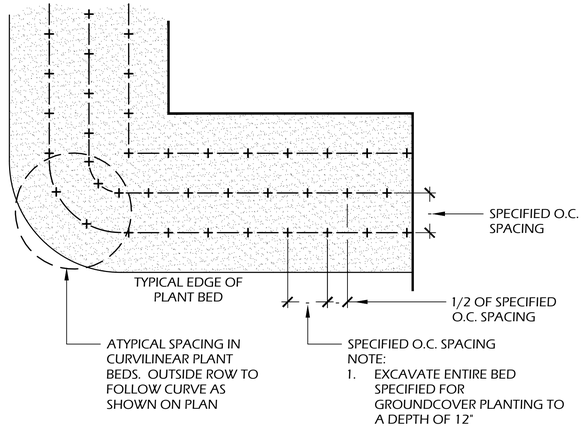
IRRIGATION NOTES:

1. CONTRACTOR TO SUPPLY AUTOMATIC IRRIGATION SYSTEM, COMPLETE AND INSTALLED. SYSTEM TO INCLUDE ALL VALVES, PIPES, HEADS, FITTINGS, BACK FLOW CONTROLLER, AND IRRIGATION METER AND TO PROVIDE 100% COVERAGE FOR ALL NEW PLANTINGS. DRIP IRRIGATION TO BE USED FOR ALL PLANTINGS, EXCEPT LAWNS.
2. NO IRRIGATION COMPONENTS SHALL BE CLOSER THAN 12" TO ANY EDGE OF PAVEMENT OR CURB AND GUTTER. IRRIGATION SHALL NOT SPRAY BEYOND LANDSCAPED AREAS, OR INTO ANY UNDISTURBED BUFFERS. NO OVER SPRAY SHALL BE PERMITTED ONTO ADJACENT PROPERTIES OR PEDESTRIAN SIDEWALK AREAS.
3. LANDSCAPE CONTRACTOR TO FIELD VERIFY ALL COMPONENT LOCATIONS TO ENSURE APPROPRIATE COVERAGE.
4. LANDSCAPE CONTRACTOR SHALL LOCATE WATER SOURCE AND PROVIDE POWER TO CONTROLLER.
5. CONTROLLER LOCATION TO BE SPECIFIED BY OWNERS REPRESENTATIVE IN FIELD PRIOR TO CONSTRUCTION.
6. ALL DRIP TUBING SHALL BE COVERED WITH MIN. 3" OF MULCH.
7. ALL DRIP AND SPRAY ZONES SHALL BE SEPARATE.
8. CONTRACTOR SHALL SUBMIT FINAL IRRIGATION PLANS TO OWNER'S REPRESENTATIVE AND ALL REVIEWING BODIES / AGENCIES FOR FINAL APPROVAL PRIOR TO INSTALLATION.

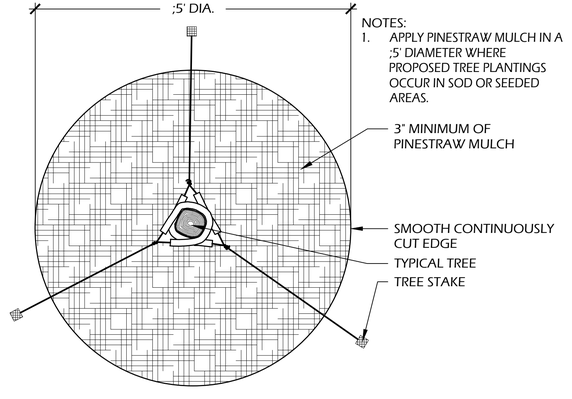


NOTES:
1. WHEN GROUNDCOVERS AND SHRUBS ARE USED IS MASSES, ENTIRE BED TO BE EXCAVATED TO RECEIVE PLANTING SOIL AND PLANT MATERIAL.
2. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.
3. IN SEMI-IMPERVIOUS SOIL CONDITIONS, ROOTBALL ELEVATION SHALL BE ;2" ABOVE FINISH GRADE. COORDINATE WITH OWNER'S REPRESENTATIVE PRIOR TO SETTING ROOTBALL ELEVATIONS.

3 // L501 SHRUB PLANTING
SCALE: N.T.S.



4 // L501 GROUND COVER PLANTING
SCALE: N.T.S.



5 // L501 TREE STAKING
SCALE: N.T.S.

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SITE DEVELOPMENT PLANS
FOR
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SAM'S POINT ROAD, LADY'S ISLAND
BEAUFORT, SOUTH CAROLINA

DATE:	MAR 25, 2021
PROJECT NO.:	15104.01
DRAWN BY:	JM
CHECKED BY:	DK

DRB SUBMITTAL PLAN, NOT FOR CONSTRUCTION

REVISIONS:

DRAWING TITLE
PLANT SCHEDULE, DETAILS, & NOTES

DRAWING NUMBER
L6

HT 429 Parking Lot and Fuel Station

Luminaire Schedule						
Symbol	Tag	Qty	Label	Arrangement	Lum. Watts	Total Watts
	B	2	OSQ-A-XX-3ME-K-57K-UL BSS	SINGLE	130	260
	C	3	OSQ-A-XX-4ME-K-57K-UL BSS	SINGLE	130	390
	D	1	OSQ-A-xx-3ME-Z-57K-UL	SINGLE	53.11	53.11
	E	3	OSQ-A-XX-3ME-K-57K-UL	SINGLE	130	390
	F	18	CRUS-SC-LED-HO-50	SINGLE	132.4	2383.2
	H	1	OSQ-A-XX-4ME-Z-57K-UL BSS	SINGLE	53	53
	I	1	OSQ-A-XX-4ME-K-57K-UL	SINGLE	130	130
	J	3	OSQ-A-xx-3ME-Z-57K-UL_PL12027	BACK-BACK	53.11	318.66
	O1	15	OWP-FC-201-LED-4500L-MVOLT-41	SINGLE	45.2	678
	O2	7	WST_LED_P1_40K_VW_MVOLT	SINGLE	12	84
	O8	31	HH8-LED-4000L-DIM10-MVOLT-MD-	SINGLE	48.5	1503.5
	PT5	7	SVN-X-SHX-T5-48L-53-50K	SINGLE	80	560
	S29	26	12498525-12498525_21	SINGLE	8	208
	SP2	4	12498525-12498525_21_1	SINGLE	8	32
	SP3	10	12498525-12498525_21_2	SINGLE	6	60
	SP4	8	CANOPY3A040UNV74010S5BZ	SINGLE	38.01	304.08
	PT3	20	SVN-X-SHX-T3-48L-53-50K	SINGLE	80	1600
	M	11	OSQ-HO-A-XX-5ME-40L-57K-UL	BACK-BACK	353.15	7769.3
	N	2	OSQ-HO-A-XX-3ME-40L-57K-UL	SINGLE	341	682

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Grounds_Planar	Illuminance	Fc	6.55	63.9	0.0	N.A.	N.A.
C Store Front parking	Illuminance	Fc	3.22	5.8	2.2	1.46	2.64
Fuel Station	Illuminance	Fc	16.23	63.9	0.3	54.10	213.00
Fuel Station Parking 1	Illuminance	Fc	3.22	6.6	1.8	1.79	3.67
HT Front Main	Illuminance	Fc	7.46	54.4	0.1	74.60	544.00
Sam Point way side parking	Illuminance	Fc	3.76	11.3	1.3	2.89	8.69
Side and Back Lots	Illuminance	Fc	5.52	13.9	0.2	27.60	69.50

All perimter pole luminaires at 15' AFG.
Interior main parking lot luminaires Type M and N at 28' AFG.
Fuel Station canopy luminaires at 15' AFG.
All perimeter parking lot luminaires have backlight shield.
Type PT5 at 12' AFG.
Type 01 at 16' AFG.
Type 02 at 8' AFG.
Type 08 at 12.5' AFG.
Type S29 at 7' AFG.
Type SP2 and SP3 at 9' AFG.
Type SP4 at 8.75' AFG.

BORDER STATES Supply Chain Solutions™

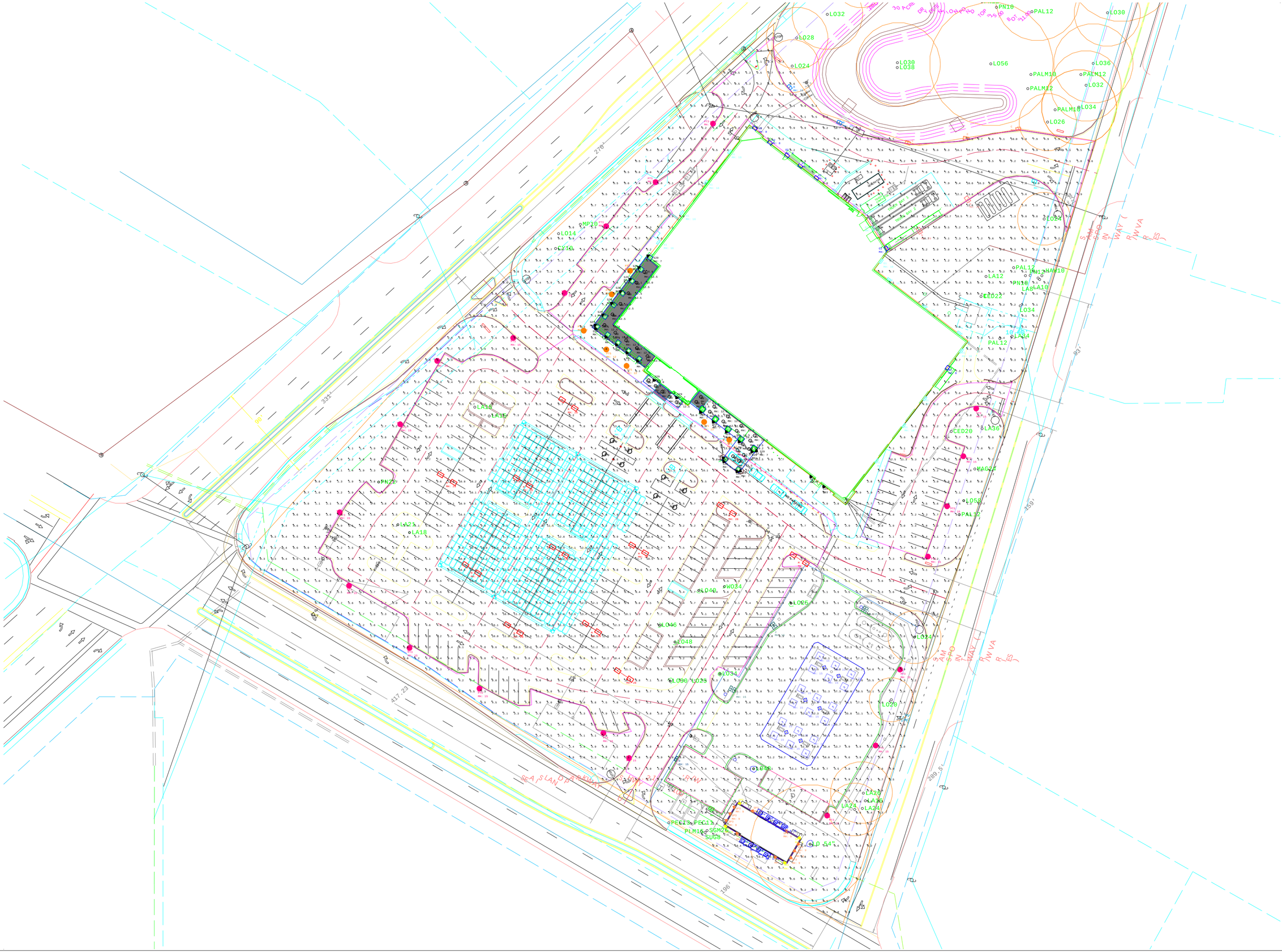
#	Date	Comments

Revisions

Drawn By:
Checked By:
Date:3/5/2021
Scale:

HT 469 Parking Lot and Fuel Station

HT 429 Complete Property



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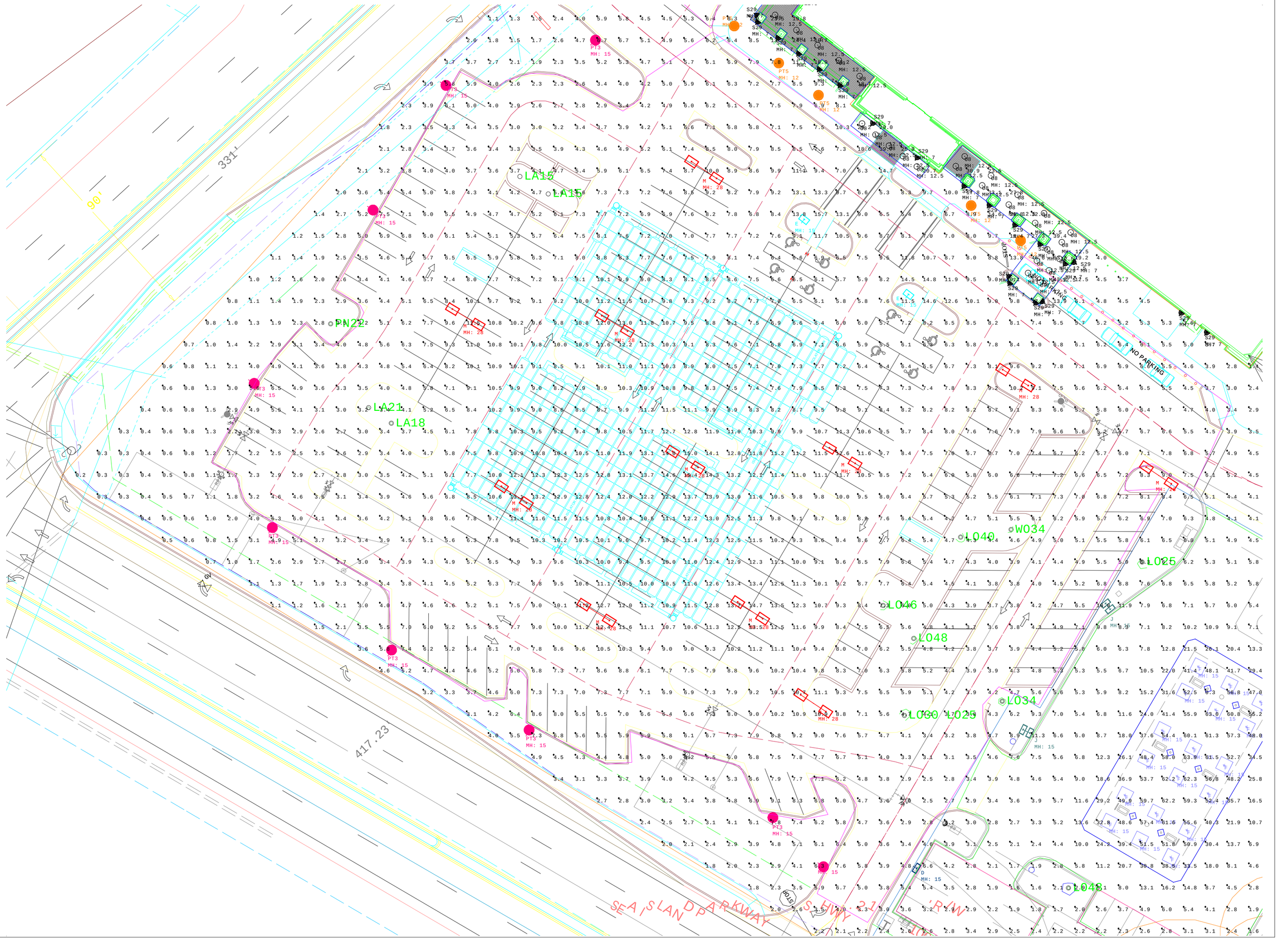
#	Date	Comments

Revisions

Drawn By:
Checked By:
Date:3/5/2021
Scale:

HT 469 Parking Lot and Fuel Station

HT 429 Main Front Parking Lot



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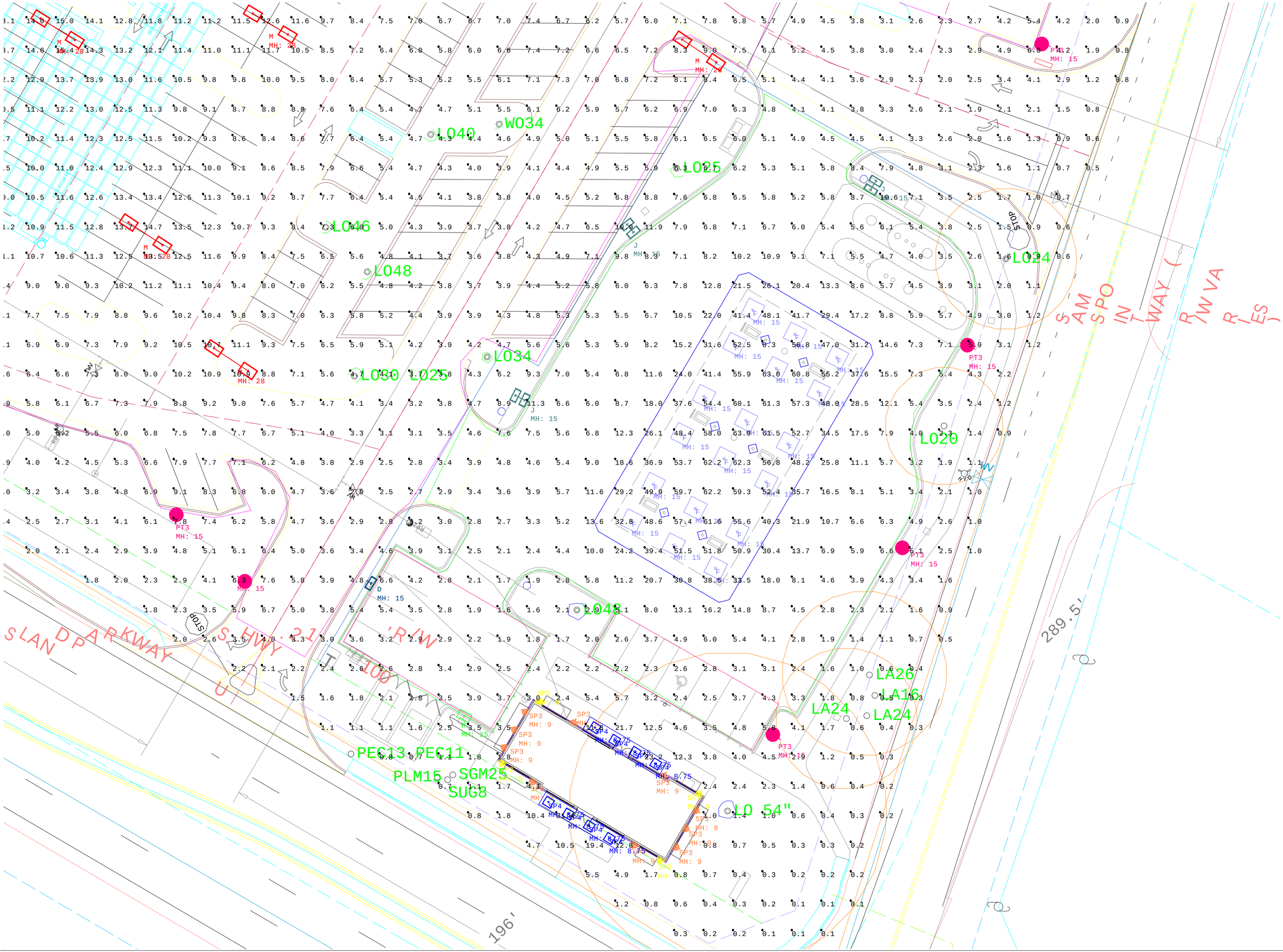
Revisions

Drawn By:
Checked By:
Date:3/5/2021
Scale:

HT 469 Parking Lot and Fuel Station

HT 429 Fuel Station and C Store



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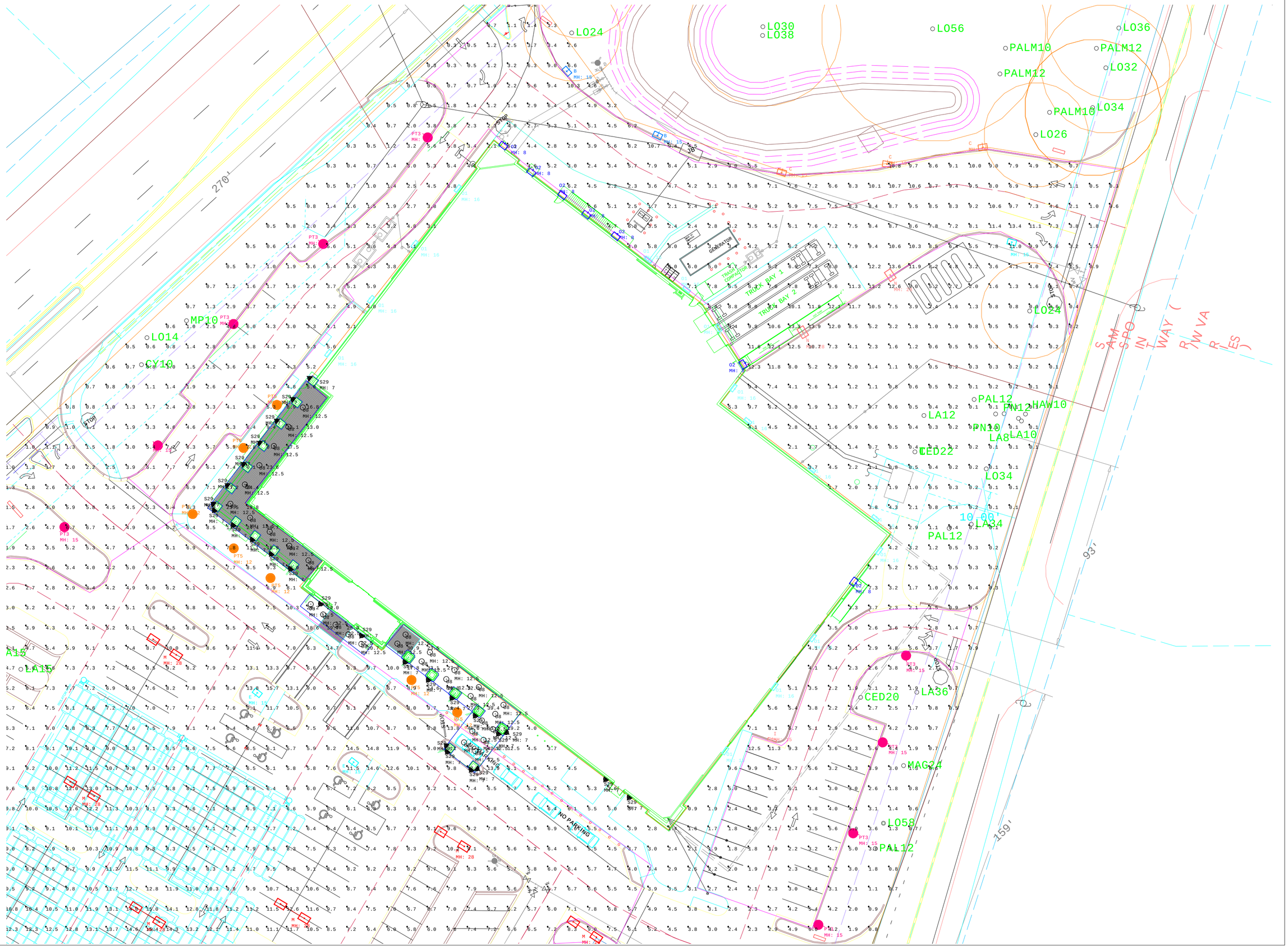
#	Date	Comments

Revisions

Drawn By:
Checked By:
Date:3/5/2021
Scale:

HT 469 Parking Lot and Fuel Station

HT 429 Back Lot and Sides



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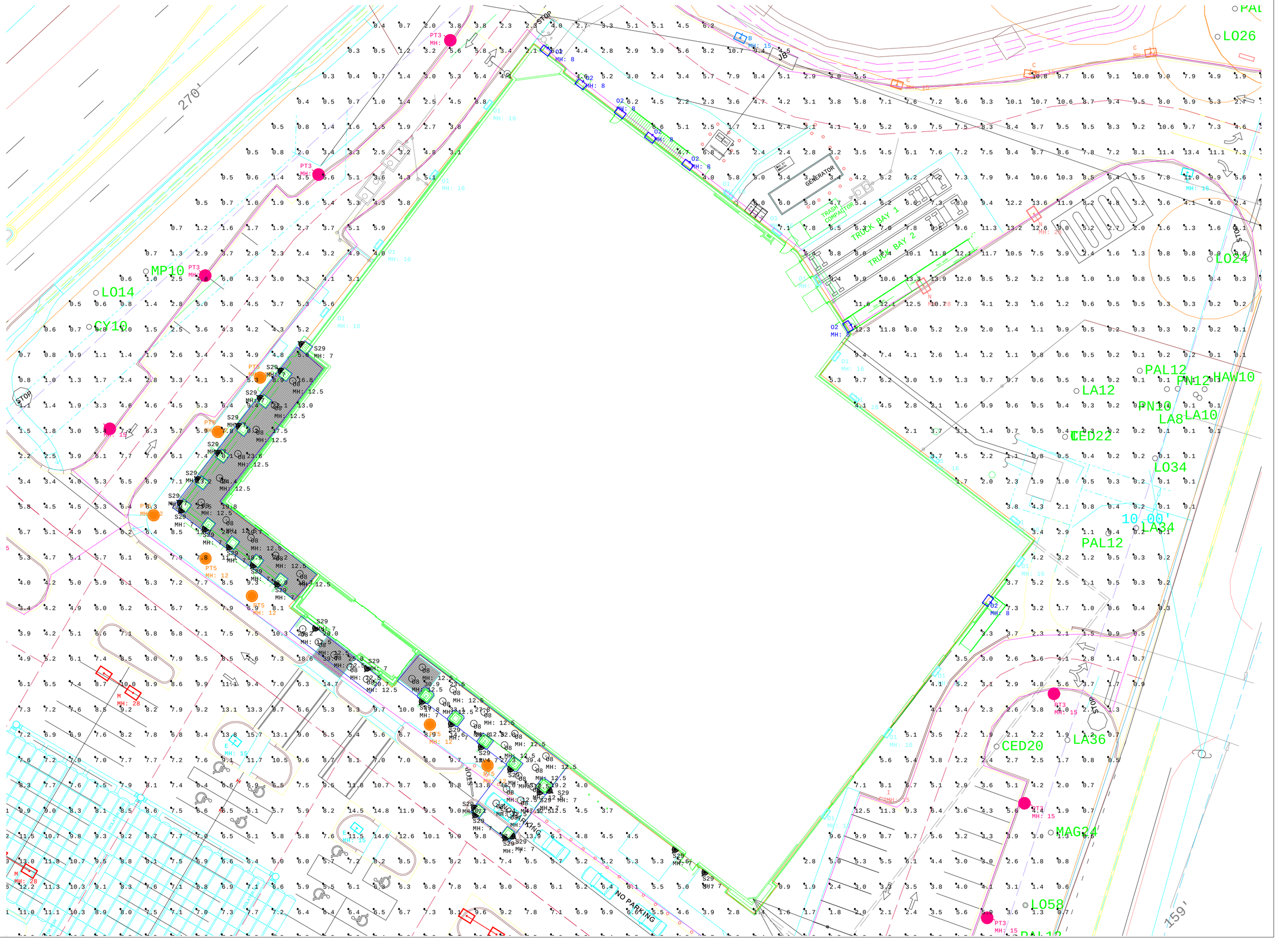
#	Date	Comments

Revisions

Drawn By:
Checked By:
Date:3/5/2021
Scale:

HT 469 Parking Lot and Fuel Station

HT 429 Bldg Perimeter



BORDER STATES
Supply Chain Solutions™

#	Date	Comments

Revisions

Drawn By:
Checked By:
Date:3/5/2021
Scale:

HT 469 Parking Lot and Fuel Station

OSQ Series

OSQ™ LED Area/Flood Luminaire featuring Cree TrueWhite® Technology – Medium

Product Description

The OSQ™ Area/Flood luminaire blends extreme optical control, advanced thermal management and modern, clean aesthetics. Built to last, the housing is rugged cast aluminum with an integral, weathertight LED driver compartment. Versatile mounting configurations offer simple installation. Its slim, low-profile design minimizes wind load requirements and blends seamlessly into the site providing even, quality illumination. The 'B' Input power designator is a suitable upgrade for HID applications up to 250 Watt, and the 'K' Input power designator is a suitable upgrade for HID applications up to 400 Watt.

Applications: Parking lots, walkways, campuses, car dealerships, office complexes, tunnels, underpasses, and internal roadways

Performance Summary

Utilizes Cree TrueWhite® Technology on 5000K Luminaires

NanoOptic® Precision Delivery Grid™ optic

Assembled in the U.S.A. of U.S. and imported parts

Initial Delivered Lumens: Up to 17,291

Efficacy: Up to 136 LPW

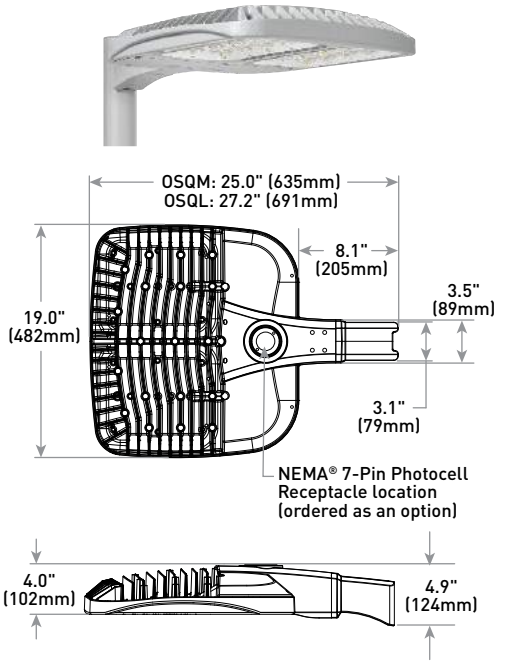
CRI: Minimum 70 CRI (3000K, 4000K & 5700K); 90 CRI (5000K)

CCT: 3000K, 4000K, 5000K, 5700K

Limited Warranty†: 10 years on luminaire; 10 years on Colorfast DeltaGuard® finish; up to 5 years for Synapse® accessories; 1 year on luminaire accessories

† See http://creelighting.com/warranty for warranty terms. For Synapse accessories, consult Synapse spec sheets for details on warranty terms.

DA Mount



Weight
28.9 lbs. (13.1kg)

Ordering Information

Fully assembled luminaire is composed of two components that must be ordered separately:
Example: **Mount:** OSQ-B-AASV + **Luminaire:** OSQ-A-NM-2ME-B-40K-UL-SV

Mount (Luminaire must be ordered separately)*	
OSQ-	
OSQ-B-AA Adjustable Arm **OSQ-DA** Direct Arm **OSQ-M-TSP** Transportation Mount (stainless steel; do not specify color) **OSQ-TM** Trunnion Mount	**Color Options:** **SV** Silver **BZ** Bronze **BK** Black **WH** White

* Reference EPA and pole configuration suitability data beginning on page 10

Luminaire (Mount must be ordered separately)

OSQ	A	NM						
Product	**Version**	**Mounting**	**Optic**	**Input Power Designator**	**CCT**	**Voltage**	**Color Options**	**Options**
OSQ	**A**	**NM** No Mount	**Asymmetric** **2ME*** Type II Medium **3ME*** Type III Medium **4ME*** Type IV Medium **Symmetric** **5ME** Type V Medium **5SH** Type V Short **5SQ** Type V Square **WSN** Wide Sign **15D** 15° Flood **25D** 25° Flood **40D** 40° Flood **60D** 60° Flood **120D** 120° Flood	**B** 86W **K** 130W **Z** 53W	**30K** 3000K, 70 CRI **40K** 4000K, 70 CRI **50K** 5000K, 90 CRI **57K** 5700K, 70 CRI	**UL** Universal 120-277V **UH** Universal 347-480V - Available with B & K Input Power Designators only	**BK** Black **BZ** Bronze **SV** Silver **WH** White	**F Fuse** - Compatible only with 120V, 277V or 347V (phase to neutral) - Consult factory if fusing is required for 208V, 240V or 480V (phase to phase) - Refer to PML spec sheet for availability with PML options - When code dictates fusing, use time delay fuse **PML Programmable Multi-Level, up to 40' Mounting Height** - Refer to PML spec sheet for details - Intended for downlight applications at 0° tilt **PML2 Programmable Multi-Level, 10-30' Mounting Height** - Refer to PML spec sheet for details - Intended for downlight applications at 0° tilt **Q9/Q6/Q5/Q4/Q3/Q2/Q1 Field Adjustable Output** - Must select Q9, Q6, Q5, Q4, Q3, Q2, or Q1 - Offers full range adjustability - Refer to pages 12-13 for power and lumen values - Available with B & K Input Power Designators only - Not available with PML or PML2 options **R NEMA® 7-Pin Photocell Receptacle** - 7-pin receptacle per ANSI C136.41 - Intended for downlight applications with maximum 45° tilt - Factory connected 0-10V dim leads - 18" (457mm) seven-conductor cord exits luminaire - Requires photocell or shorting cap by others **RL Rotate Left** - LED and optic are rotated to the left - Refer to RR/RL configuration diagram on page 14 for optic directionality - Not for use with symmetric optics **RR Rotate Right** - LED and optic are rotated to the right - Refer to RR/RL configuration diagram on page 14 for optic directionality - Not for use with symmetric optics

* Available with Backlight Shield when ordered with field-installed accessory (see table above)

US: creelighting.com (800) 236-6800
Canada: creelighting-canada.com (800) 473-1234

Product Specifications

CREE TRUEWHITE® TECHNOLOGY

A revolutionary way to generate high-quality white light, Cree TrueWhite® Technology is a patented approach that delivers an exclusive combination of 90+ CRI, beautiful light characteristics and lifelong color consistency, all while maintaining high luminous efficacy – a true no compromise solution.

CONSTRUCTION & MATERIALS

- Slim, low profile design minimizes wind load requirements
- Luminaire housing is rugged die cast aluminum with an integral, weathertight LED driver compartment and high-performance heat sink
- Convenient interlocking mounting method on direct arm mount. Mounting adaptor is rugged die cast aluminum and mounts to 3" (76mm) or larger square or round pole, secured by two 5/16-18 UNC bolts spaced on 2" (51mm) centers
- Mounting for the adjustable arm mount adaptor is rugged die cast aluminum and mounts to 2" (51mm) IP, 2.375" (60mm) O.D. tenon
- Adjustable arm mount can be adjusted 180˚ in 2.5˚ increments
- Transportation mount is constructed of 316 stainless steel and mounts to surface with (4) 3/8" fasteners by others
- Trunnion mount is constructed of A500 and A1011 steel and is adjustable from 0-180˚ in 15˚ degree increments. Trunnion mount secures to surface with (1) 3/4" bolt or (2) 1/2" or 3/8" bolts
- Includes 18" (340mm) 18/5 or 16/5 cord exiting the luminaire. When ordered with R option, 18" (340mm) 18/7 or 16/7 cord is provided
- Designed for uplight and downlight applications
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver, bronze, black, and white are available
- **Weight:** OSQ-DA: 28.9 lbs. (13.1kg); OSQ-B-AA: 28.4 lbs. (12.9kg); OSQ-M-TSP: 42 lbs. (19.1kg); OSQ-TM: 32.6 lbs. (14.8kg)

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- Designed with 0-10V dimming capabilities. Controls by others
- Refer to Dimming spec sheet for details
- **Maximum 10V Source Current:** 1.0mA
- **Operating Temperature Range:** -40˚C - +40˚C (-40˚F - +104˚F)

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Enclosure rated IP66 per IEC 60529 when ordered without R option
- Consult factory for CE Certified products
- Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards with AA, DA, TM, and TSP mounts
- ANSI C136.2 10kV surge protection, tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Meets Buy American requirements within ARRA
- DLC and DLC Premium qualified versions available. Some exceptions apply. Please refer to https://www.designlights.org/search/ for most current information
- RoHS compliant. Consult factory for additional details
- Dark Sky Friendly, IDA Approved when ordered with 30K CCT and direct or transportation mounts only. Please refer to https://www.darksky.org/our-work/lighting/lighting-for-industry/fsa/fsa-products/ for most current information
- ⚠ **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – www.p65warnings.ca.gov

Product Specifications

SYNAPSE® SIMPLYSNAP INTELLIGENT CONTROL

The Synapse SimplySNAP platform is a highly intuitive connected lighting solution featuring zone dimming, motion sensing, and daylight harvesting with utility-grade power monitoring and support of up to 1000 nodes per gateway. The system features a reliable and robust self-healing mesh network with a browser-based interface that runs on smartphones, tablets, and PCs. The Twist-Lock Lighting Controller (TL7-B2) and Site Controller (SS450-002) take the OSQ Series to a new performance plateau, providing extreme energy productivity, code compliance and a better light experience.

Electrical Data*

Input Power Designator	System Watts 120-480V	Total Current (A)					
		120V	208V	240V	277V	347V	480V
B	86	0.73	0.43	0.37	0.32	0.25	0.19
K	130	1.09	0.65	0.56	0.49	0.38	0.28
Z	53**	0.46	0.26	0.22	0.19	N/A	N/A

* Electrical data at 25˚C (77˚F). Actual wattage may differ by +/- 10% when operating between 120-277V or 347-480V+/-10%
** Available with UL voltage only

OSQ Series Ambient Adjusted Lumen Maintenance[1]

Ambient	Optic	Initial LMF	25K hr Reported[2] LMF	50K hr Reported[2] LMF	75K hr Reported[2]/ Estimated[3] LMF	100K hr Reported[2]/ Estimated[3] LMF
5˚C (41˚F)	Asymmetric	1.04	1.03	1.01	0.99[2]	0.97[2]
	Symmetric	1.05	1.05	1.05	1.05[3]	1.05[3]
10˚C (50˚F)	Asymmetric	1.03	1.02	1.00	0.98[2]	0.96[2]
	Symmetric	1.04	1.03	1.03	1.03[3]	1.03[3]
15˚C (59˚F)	Asymmetric	1.02	1.01	0.99	0.97[2]	0.95[2]
	Symmetric	1.02	1.02	1.02	1.02[3]	1.02[3]
20˚C (68˚F)	Asymmetric	1.01	1.00	0.98	0.96[2]	0.94[2]
	Symmetric	1.01	1.01	1.01	1.01[3]	1.01[3]
25˚C (77˚F)	Asymmetric	1.00	0.99	0.97	0.95[2]	0.93[2]
	Symmetric	1.00	1.00	1.00	1.00[3]	1.00[3]

[1] Lumen maintenance values at 25˚C (77˚F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors. Please refer to the Temperature Zone Reference Document for outdoor average nighttime ambient conditions.
[2] In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.
[3] Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED.

Accessories

Field-Installed

Backlight Shield
OSQ-BLSMF
– Front facing optics
OSQ-BLSMR
– Rotated optics

Hand-Held Remote
XA-SENSREM
- For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required

Bird Spikes
OSQ-MED-BRDSPK

Shorting Cap
XA-XSLSHRT

Synapse Wireless Control Accessories

Twist-Lock Lighting Controller
TL7-B2
- Suitable for 120-277V (UL) voltage only
- Requires NEMA/ANSI C136.41 7-Pin Dimming Receptacle
- Not for use with PML or Q options
- Provides On/Off switching, dimming, power metering, digital sensor input, and status monitoring of luminaires
- Refer to TL7-B2 spec sheet for details

SimplySNAP Central Base Station
CBSSW-450-002
- Includes On-Site Controller (SS450-002) and 5-button switch
- Indoor and Outdoor rated
- Refer to CBSSW-450-002 spec sheet for details

Synapse Wireless Sensor
WSN-DPM
- Motion and light sensor
- Control multiple zones
- Refer to WSN-DPM spec sheet for details

SimplySNAP On-Site Controller
SS450-002
- Verizon® LTE-enabled
- Designed for indoor applications
- Refer to SS450-002 spec sheet for details

Building Management System (BMS) Gateway
BMS-GW-002
- Required for BACnet integration
- Refer to BMS-GW-002 spec sheet for details

Outdoor Antennas
(Optional, for increased range, 8dB gain)
KIT-ANT420SM
- Kit includes antenna, 20' cable and bracket

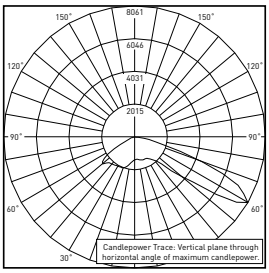
KIT-ANT360
- Kit includes antenna, 30' cable and bracket

KIT-ANT600
- Kit includes antenna, 50' cable and bracket
- Refer to Outdoor antenna spec sheet for details

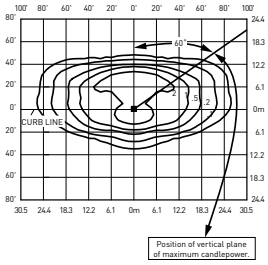
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: https://creelighting.com/products/outdoor/area/osq-series

2ME



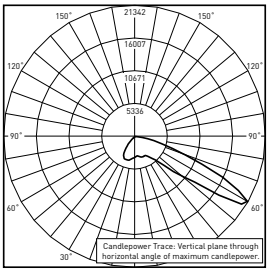
RESTL Test Report #: PL08877-001A
OSQ-A-**-2ME-B-30K-UL
Initial Delivered Lumens: 10,381



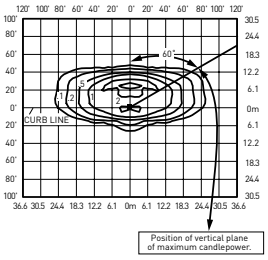
OSQ-A-**-2ME-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,424
Initial FC at grade

Type II Medium Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,738	B2 U0 G2	11,424	B2 U0 G2	9,350	B2 U0 G2	11,648	B2 U0 G2
K	16,022	B3 U0 G3	16,959	B3 U0 G3	14,000	B3 U0 G2	17,291	B3 U0 G3
Z	6,481	B2 U0 G1	6,896	B2 U0 G1	5,750	B1 U0 G1	7,031	B2 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt



CESTL Test Report #: PL07700-001A
OSQ-A-**-2ME-U-57K-UL w/OSQ-BLSLF
Initial Delivered Lumens: 22,822



OSQ-A-**-2ME-B-40K-UL w/OSQ-BLSMF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 8,779
Initial FC at grade

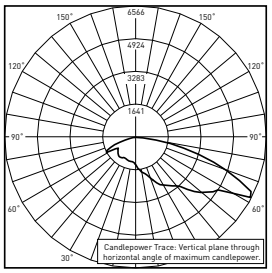
Type II Medium w/BLS Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11
B	8,251	B2 U0 G2	8,779	B2 U0 G2	7,200	B1 U0 G1	8,950	B2 U0 G2
K	12,312	B2 U0 G2	13,032	B2 U0 G2	10,750	B2 U0 G2	13,286	B2 U0 G2
Z	4,980	B1 U0 G1	5,299	B1 U0 G1	4,420	B1 U0 G1	5,402	B1 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

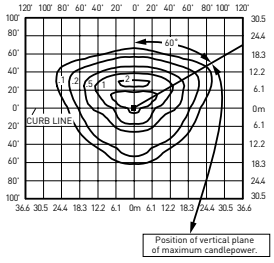
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: https://creelighting.com/products/outdoor/area/osq-series

3ME



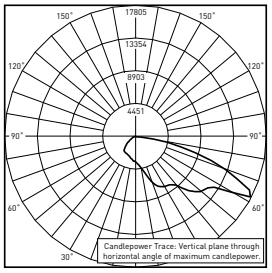
RESTL Test Report #: PL08876-001A
OSQ-A-**-3ME-B-30K-UL
Initial Delivered Lumens: 10,421



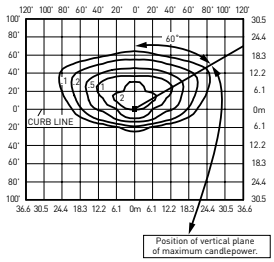
OSQ-A-**-3ME-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,424
Initial FC at grade

Type III Medium Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,738	B3 U0 G3	11,424	B3 U0 G3	9,350	B2 U0 G2	11,648	B3 U0 G3
K	16,022	B3 U0 G3	16,959	B3 U0 G3	14,000	B3 U0 G3	17,291	B3 U0 G3
Z	6,481	B2 U0 G2	6,896	B2 U0 G2	5,750	B2 U0 G2	7,031	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt



CESTL Test Report #: PL07699-001A
OSQ-A-**-3ME-U-57K-UL w/OSQ-BLSLF
Initial Delivered Lumens: 23,601



OSQ-A-**-3ME-B-40K-UL w/OSQ-BLSMF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 9,019
Initial FC at grade

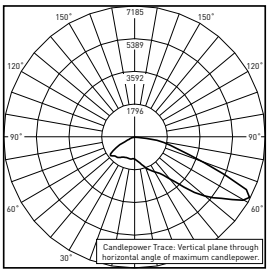
Type III Medium w/BLS Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	8,477	B1 U0 G2	9,019	B1 U0 G2	7,400	B1 U0 G2	9,196	B1 U0 G2
K	12,649	B2 U0 G2	13,389	B2 U0 G2	11,050	B2 U0 G2	13,650	B2 U0 G2
Z	5,117	B1 U0 G1	5,444	B1 U0 G1	4,540	B1 U0 G1	5,551	B1 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

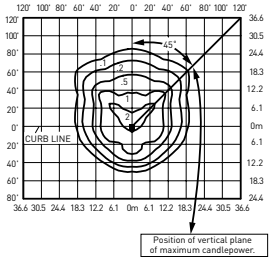
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: https://creelighting.com/products/outdoor/area/osq-series

4ME



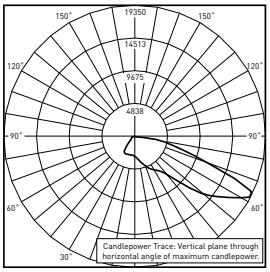
RESTL Test Report #: PL08878-001A
OSQ-A-**-4ME-B-30K-UL
Initial Delivered Lumens: 10,230



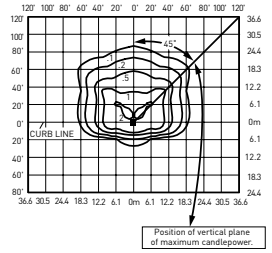
OSQ-A-**-4ME-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,424
Initial FC at grade

Type IV Medium Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,738	B2 U0 G2	11,424	B2 U0 G2	9,350	B2 U0 G2	11,648	B2 U0 G2
K	16,022	B3 U0 G3	16,959	B3 U0 G3	14,000	B3 U0 G3	17,291	B3 U0 G3
Z	6,481	B2 U0 G2	6,896	B2 U0 G2	5,750	B2 U0 G1	7,031	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt



CESTL Test Report #: PL07692-001A
OSQ-A-**-4ME-U-57K-UL w/OSQ-BLSLF
Initial Delivered Lumens: 22,793



OSQ-A-**-4ME-B-40K-UL w/OSQ-BLSMF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 8,779
Initial FC at grade

Type IV Medium w/BLS Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	8,251	B1 U0 G2	8,779	B1 U0 G2	7,200	B1 U0 G2	8,950	B1 U0 G2
K	12,312	B2 U0 G2	13,032	B2 U0 G2	10,750	B2 U0 G2	13,286	B2 U0 G2
Z	4,980	B1 U0 G1	5,299	B1 U0 G1	4,420	B1 U0 G1	5,402	B1 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

Photometry

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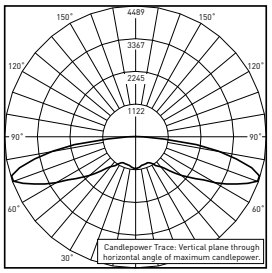
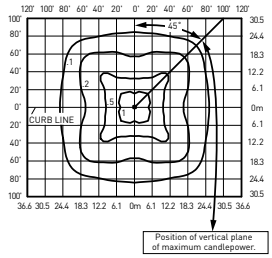
5ME



RESTL Test Report #: PL08534-001B
OSQ-A-**-5ME-B-40K-UL
Initial Delivered Lumens: 10,519

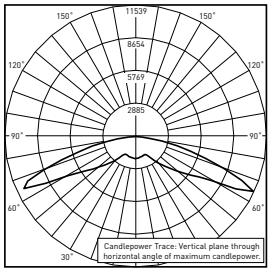


OSQ-A-**-5ME-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 10,867
Initial FC at grade

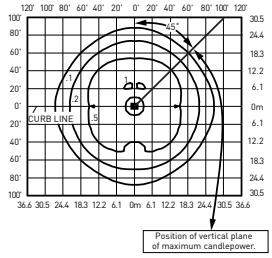
Type V Medium Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,232	B4 U0 G3	10,867	B4 U0 G3	10,000	B4 U0 G3	11,056	B4 U0 G3
K	15,063	B4 U0 G4	15,999	B4 U0 G4	14,925	B4 U0 G4	16,277	B4 U0 G4
Z	5,257	B3 U0 G3	6,086	B3 U0 G3	6,175	B3 U0 G3	6,192	B3 U0 G3

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

5SH



CESTL Test Report #: PL10754-001A
OSQ-A-**-5SH-U-40K-UL
Initial Delivered Lumens: 25,679



OSQ-A-**-5SH-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,478
Initial FC at grade

Type V Short Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,806	B4 U0 G2	11,478	B4 U0 G2	10,575	B4 U0 G2	11,678	B4 U0 G2
K	15,909	B4 U0 G3	16,897	B4 U0 G3	15,800	B4 U0 G3	17,191	B4 U0 G3
Z	5,552	B3 U0 G1	6,428	B3 U0 G2	6,525	B3 U0 G2	6,539	B3 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

Photometry

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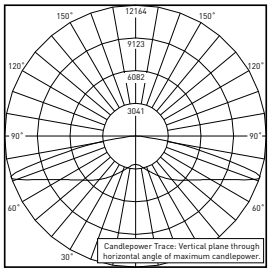
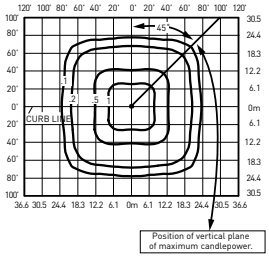
5SQ



RESTL Test Report #: PL14561-001B
OSQ-A-**-5SQ-U-57K-UL
Initial Delivered Lumens: 28,716



OSQ-A-NM-5SQ-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,478
Initial FC at grade

Type V Square Distribution

Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,806	B3 U0 G2	11,478	B4 U0 G2	10,575	B3 U0 G2	11,678	B4 U0 G2
K	15,909	B4 U0 G2	16,897	B4 U0 G2	15,800	B4 U0 G2	17,191	B4 U0 G2
Z	5,552	B3 U0 G1	6,428	B3 U0 G1	6,525	B3 U0 G1	6,539	B3 U0 G1

* Initial delivered lumens at 25˚C (77˚F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

Photometry

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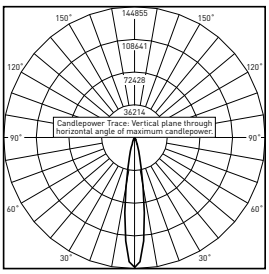
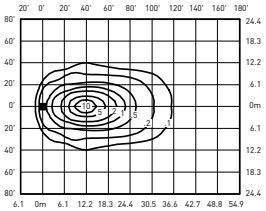
15D



CESTL Test Report #: PL07689-001A
OSQ-A-**-15D-U-30K-UL
Initial Delivered Lumens: 23,254

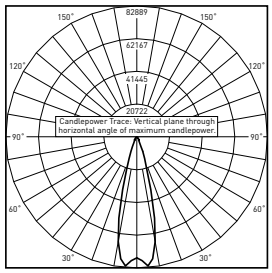


OSQ-A-**-15D-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

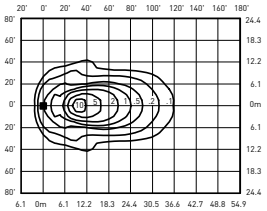
15° Flood Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

25D



CESTL Test Report #: PL07696-001A
OSQ-A-**-25D-U-30K-UL
Initial Delivered Lumens: 23,265

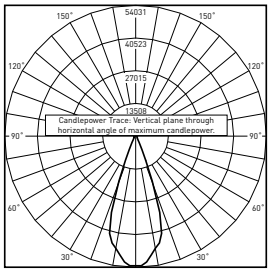


OSQ-A-**-25D-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

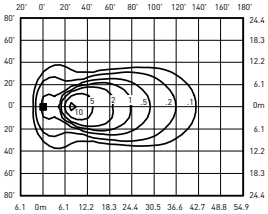
25° Flood Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

40D



CESTL Test Report #: PL07697-001A
OSQ-A-**-40D-U-30K-UL
Initial Delivered Lumens: 22,943



OSQ-A-**-40D-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

40° Flood Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

Photometry

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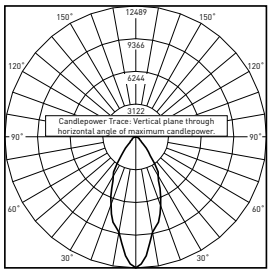
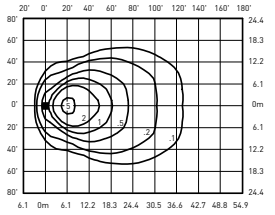
60D



CESTL Test Report #: PL08100-001B
OSQ-A-**-60D-B-30K-UL
Initial Delivered Lumens: 10,079



OSQ-A-**-60D-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60˚ Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

60˚ Flood Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25˚C (77˚F). Actual production yield may vary between -10 and +10% of initial delivered lumens
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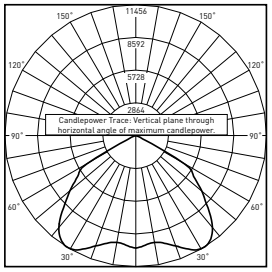
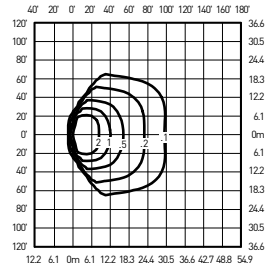
120D



RESTL Test Report #: PL15731-001A
OSQ-A-**-120D-U-40K-UL
Initial Delivered Lumens: 25,501

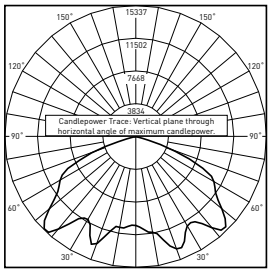


OSQ-A-**-120D-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60˚ Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

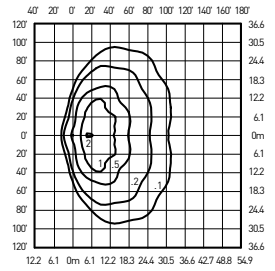
Type 120° Flood Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25˚C (77˚F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

WSN



CESTL Test Report #: PL07695-001A
OSQ-A-**-WSN-U-30K-UL
Initial Delivered Lumens: 23,116



OSQ-A-**-WSN-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60˚ Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

Wide Sign Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25˚C (77˚F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

Luminaire EPA

Adjustable Arm Mount – OSQ-B-AA Weight: 28.4 lbs. (12.9kg)							
Single	2 @ 180˚	2 @ 90˚	3 @ 90˚	3 @ 120˚	3 @ 180˚	4 @ 180˚	4 @ 90˚
Tenon Configuration (0˚-80˚ Tilt); If used with Cree Lighting tenons, please add tenon EPA with Luminaire EPA							
 PB-1A*; PT-1; PW-1A3**	 PB-2A*; PB-2R2.375; PD-2A4(180); PT-2(180); PW-2A3**	 PB-2A*; PD-2A4(90); PT-2(90)	 PB-3A*; PD-3A4(90); PT-3(90)	 PB-3A*; PT-3(120)	 PB-3A*; PB-3R2.375	 PB-4A*(180)	 PB-4A*(90); PB-4R2.375; PD-4A4(90); PT-4(90)
0˚ Tilt							
0.74	1.48	1.19	1.93	1.63	3.33	4.66	2.38
10˚ Tilt							
0.75	1.48	1.49	2.23	2.15	4.22	5.84	2.98
20˚ Tilt							
1.12	1.48	1.86	2.60	2.85	5.31	7.32	3.72
30˚ Tilt							
1.46	1.48	2.20	2.94	3.56	6.34	8.68	4.40
45˚ Tilt							
1.96	1.96	2.69	3.43	4.54	7.83	10.68	5.38
60˚ Tilt							
2.33	2.33	3.07	3.81	5.11	8.94	12.16	6.14
70˚ Tilt							
2.49	2.49	3.23	3.97	5.11	9.43	12.80	6.46
80˚ Tilt							
2.58	2.58	3.32	4.06	5.11	9.71	13.16	6.64
Tenon Configuration (90˚ Tilt); If used with Cree Lighting tenons, please add tenon EPA with Luminaire EPA							
PB-1A*; PT-1; PW-1A3**	PB-2A*; PB-2R2.375; PD-2A4(180); PT-2(180); PW-2A3**	PB-2A*	PB-3A*	PB-3A*; PT-3(120)	PB-3A*; PB-3R2.375	PB-4A*(180)	PB-4A*(90); PB-4R2.375
90˚ Tilt							
2.61	2.61	4.44	6.05	5.11	9.79	13.28	10.39

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation
** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")

Tenon EPA

Part Number	EPA
PB-1A*	None
PB-2A*	0.82
PB-3A*	1.52
PB-4A*(180)	2.22
PB-4A*(90)	1.11
PB-2R2.375	0.92
PB-3R2.375	1.62
PB-4R2.375	2.32
PD Series Tenons	0.09
PT Series Tenons	0.10
PW-1A3**	0.47
PW-2A3**	0.94
WM-2	0.08
WM-4	0.25
WM-DM	None

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation
** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")

Tenons and Brackets‡ (must specify color)

Square Internal Mount Vertical Tenons (Steel)
- Mounts to 3-6" (76-152mm) square aluminum or steel poles

PB-1A* – Single
PB-2A* – 180˚ Twin
PB-3A* – 180˚ Triple
PB-4A*(90) – 90˚ Quad
PB-4A*(180) – 180˚ Quad

Square Internal Mount Horizontal Tenons (Aluminum)
- Mounts to 4" (102mm) square aluminum or steel poles

PD-2A4(90) – 90˚ Twin
PD-2A4(180) – 180˚ Twin
PD-3A4(90) – 90˚ Triple
PD-4A4(90) – 90˚ Quad

Wall Mount Brackets
- Mounts to wall or roof

WM-2 – Horizontal for OSQ-B-AA mount
WM-4 – L-Shape for OSQ-B-AA mount
WM-DM – Plate for OSQ-DA mount

Round External Mount Vertical Tenons (Steel)
- Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons

PB-2R2.375 – Twin
PB-3R2.375 – Triple
PB-4R2.375 – Quad

Round External Mount Horizontal Tenons (Aluminum)
- Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons
- Mounts to square pole with PB-1A* tenon

PT-1 – Single (Vertical)
PT-2(90) – 90˚ Twin
PT-2(180) – 180˚ Twin
PT-3(90) – 90˚ Triple
PT-3(120) – 120˚ Triple
PT-4(90) – 90˚ Quad

Mid-Pole Bracket
- Mounts to square pole

PW-1A3** – Single
PW-2A3** – Double

Ground Mount Post
- For ground-mounted flood luminaires

PGM-1 - for OSQ-B-AA mount

‡ Refer to the Bracket and Tenons spec sheet for more details

Luminaire EPA

Direct Arm Mount – OSQ-DA Weight: 28.9 lbs. (13.1kg)					
Single	2 @ 180˚	2 @ 90˚	3 @ 90˚	3 @ 120˚	4 @ 90˚
					
0.74	1.48	1.19	1.93	1.63	2.38

Direct Mount Configurations

Compatibility with OSQ-DA Direct Mount Bracket					
Input Power Designator	2 @ 90˚	2 @ 180˚	3 @ 90˚	3 @ 120˚	4 @ 90˚
3" Square					
B, K & Z	N/A	✓	N/A	N/A	N/A
3" Round					
B, K & Z	N/A	✓	N/A	N/A	N/A
4" Square					
B, K & Z	✓	✓	✓	N/A	✓
4" Round					
B, K & Z	✓	✓	✓	✓	✓
5" Square					
B, K & Z	✓	✓	✓	N/A	✓
5" Round					
B, K & Z	✓	✓	✓	✓	✓
6" + Square					
B, K & Z	✓	✓	✓	N/A	✓
6" + Round					
B, K & Z	✓	✓	✓	✓	✓

Luminaire EPA

Trunnion Mount – OSQ-TM Weight: 32.6 lbs. (14.8kg)
Single
0˚ Tilt
0.75
15˚ Tilt
0.99
30˚ Tilt
1.57
45˚ Tilt
2.07
60˚ Tilt
2.46
75˚ Tilt
2.67
90˚ Tilt
2.33

Field Adjustable Output (Q9/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the OSQ area luminaires to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected Q setting and will be fully adjustable between the nine settings.

Q Option Power & Lumen Data – Designator B

Q Option Setting	CCT/CRI	System Watts	Lumen Values						Optics Qualified on DLC QPL	
		120-480V	Asymmetric	5ME	5SH, 5SQ & Floods	2ME w/ BLS	3ME w/ BLS	4ME w/BLS	Standard	Premium
Q9 (Full Power)	30K (70 CRI)	86	10,738	10,232	10,806	8,251	8,477	8,251	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		11,424	10,867	11,478	8,779	9,019	8,779	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		9,350	10,000	10,575	7,200	7,400	7,200	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		11,648	11,056	11,678	8,950	9,196	8,950	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q6	30K (70 CRI)	77	9,449	9,004	9,509	7,261	7,460	7,261	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		10,053	9,563	10,101	7,726	7,937	7,726	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		8,350	8,950	9,450	6,425	6,600	6,425	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		10,250	9,729	10,277	7,876	8,092	7,876	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q5	30K (70 CRI)	72	8,913	8,492	8,969	6,848	7,036	6,848	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		9,482	9,020	9,527	7,287	7,486	7,287	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		7,525	8,050	8,525	5,775	5,950	5,775	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		9,668	9,176	9,693	7,429	7,633	7,429	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q4	30K (70 CRI)	62	7,731	7,367	7,780	5,941	6,103	5,941	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		8,225	7,824	8,264	6,321	6,494	6,321	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		6,575	7,025	7,425	5,050	5,175	5,050	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		8,387	7,960	8,408	6,444	6,621	6,444	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q3	30K (70 CRI)	53	6,550	6,241	6,592	5,033	5,171	5,033	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		6,969	6,629	7,002	5,355	5,502	5,355	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		5,575	5,975	6,325	4,290	4,410	4,290	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		7,105	6,744	7,124	5,460	5,610	5,460	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q2	30K (70 CRI)	45	5,476	5,218	5,511	4,208	4,323	4,208	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		5,826	5,542	5,854	4,477	4,600	4,477	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		4,550	4,890	5,175	3,500	3,590	3,500	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		5,940	5,639	5,956	4,565	4,690	4,565	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q1	30K (70 CRI)	34	4,188	3,990	4,214	3,218	3,306	3,218	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		4,455	4,238	4,476	3,424	3,517	3,424	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		3,500	3,770	3,980	2,690	2,760	2,690	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		4,543	4,312	4,554	3,491	3,586	3,491	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN

Field Adjustable Output (Q9/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the OSQ area luminaires to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected Q setting and will be fully adjustable between the nine settings.

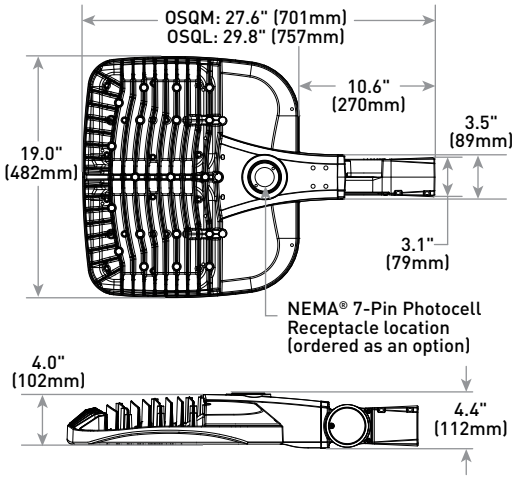
Q Option Power & Lumen Data – Designator K

Q Option Setting	CCT/CRI	System Watts	Lumen Values						Optics Qualified on DLC QPL	
		120-480V	Asymmetric	5ME	5SH, 5SQ & Floods	2ME w/BLS	3ME w/BLS	4ME w/BLS	Standard	Premium
Q9 (Full Power)	30K (70 CRI)	130	16,022	15,063	15,909	12,312	12,649	12,312	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		16,959	15,999	16,897	13,032	13,389	13,032	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		14,000	14,925	15,800	10,750	11,050	10,750	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		17,291	16,277	17,191	13,286	13,650	13,286	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q6	30K (70 CRI)	117	14,099	13,255	14,000	10,835	11,131	10,835	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		14,924	14,079	14,869	11,468	11,782	11,468	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		12,500	13,350	14,100	9,600	9,875	9,600	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		15,216	14,324	15,128	11,692	12,012	11,692	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q5	30K (70 CRI)	110	13,298	12,502	13,204	10,219	10,499	10,219	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		14,076	13,279	14,025	10,817	11,113	10,817	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		11,250	12,050	12,725	8,650	8,900	8,650	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		14,352	13,510	14,269	11,027	11,330	11,027	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q4	30K (70 CRI)	93	11,536	10,845	11,454	8,865	9,107	8,865	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		12,210	11,519	12,166	9,383	9,640	9,383	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		9,825	10,525	11,100	7,550	7,750	7,550	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		12,450	11,719	12,378	9,566	9,828	9,566	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q3	30K (70 CRI)	80	9,773	9,188	9,704	7,510	7,716	7,510	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		10,345	9,759	10,307	7,950	8,167	7,950	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		8,350	8,950	9,475	6,425	6,600	6,425	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		10,548	9,929	10,487	8,104	8,327	8,104	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q2	30K (70 CRI)	67	8,171	7,682	8,114	6,279	6,451	6,279	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		8,649	8,159	8,617	6,646	6,828	6,646	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		6,825	7,325	7,725	5,250	5,375	5,250	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		8,818	8,301	8,767	6,776	6,962	6,776	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q1	30K (70 CRI)	51	6,249	5,875	6,205	4,802	4,933	4,802	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		6,614	6,240	6,590	5,082	5,222	5,082	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		5,250	5,650	5,975	4,030	4,150	4,030	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		6,743	6,348	6,704	5,182	5,324	5,182	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN

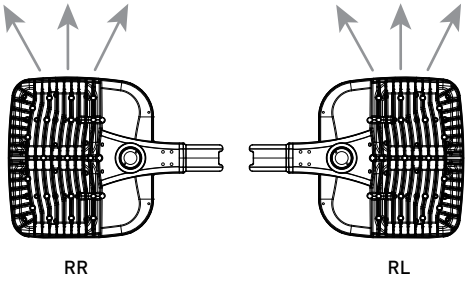
AA Mount



Weight
28.4 lbs. (12.9kg)



RR/RL Configuration

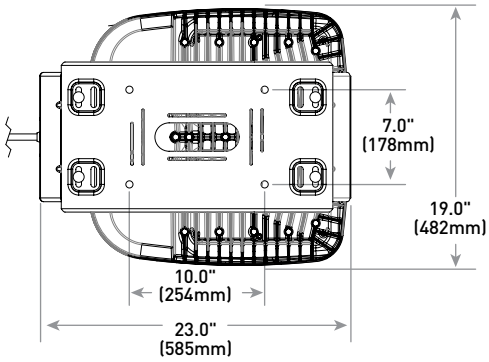


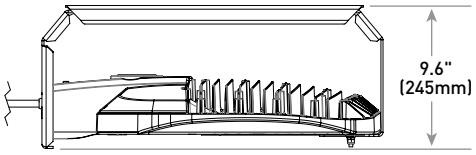
TSP Mount



Weight
42.0 lbs. (19.1kg)

OSQ Large luminaire shown.



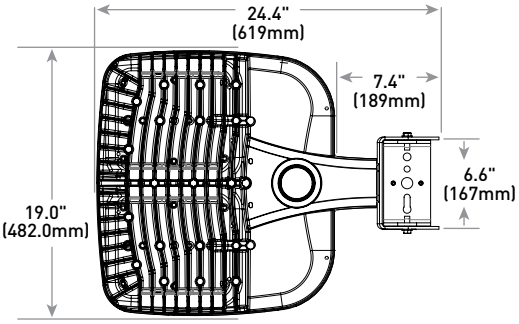


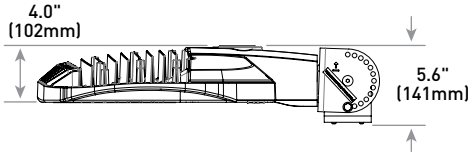
TM Mount



Weight
32.6 lbs. (14.8kg)

OSQ Large luminaire shown.





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Canada: creelighting-canada.com **(800) 473-1234**

CREE LIGHTING

A COMPANY OF *IDEAL INDUSTRIES, INC.*

OSQ Series

OSQ™ LED Area/Flood Luminaire featuring Cree TrueWhite® Technology – Medium

Rev. Date: V27 10/21/2020

Product Description

The OSQ™ Area/Flood luminaire blends extreme optical control, advanced thermal management and modern, clean aesthetics. Built to last, the housing is rugged cast aluminum with an integral, weathertight LED driver compartment. Versatile mounting configurations offer simple installation. Its slim, low-profile design minimizes wind load requirements and blends seamlessly into the site providing even, quality illumination. The 'B' Input power designator is a suitable upgrade for HID applications up to 250 Watt, and the 'K' Input power designator is a suitable upgrade for HID applications up to 400 Watt.

Applications: Parking lots, walkways, campuses, car dealerships, office complexes, tunnels, underpasses, and internal roadways

Performance Summary

Utilizes Cree TrueWhite® Technology on 5000K Luminaires

NanoOptic® Precision Delivery Grid™ optic

Assembled in the U.S.A. of U.S. and imported parts

Initial Delivered Lumens: Up to 17,291

Efficacy: Up to 136 LPW

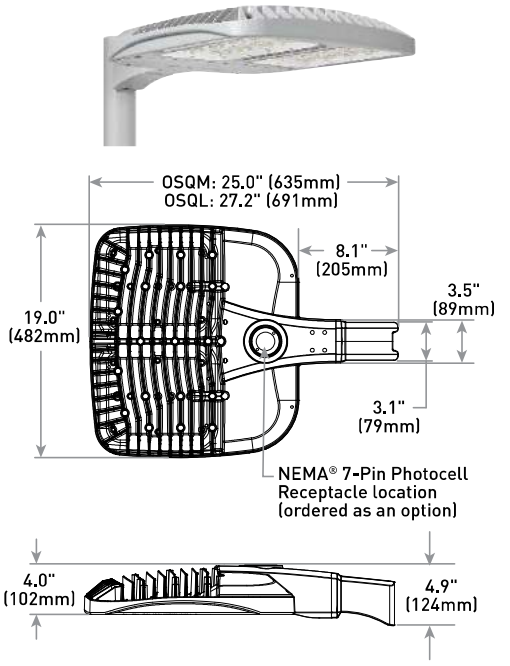
CRI: Minimum 70 CRI (3000K, 4000K & 5700K); 90 CRI (5000K)

CCT: 3000K, 4000K, 5000K, 5700K

Limited Warranty†: 10 years on luminaire; 10 years on Colorfast DeltaGuard® finish; up to 5 years for Synapse® accessories; 1 year on luminaire accessories

† See http://creelighting.com/warranty for warranty terms. For Synapse accessories, consult Synapse spec sheets for details on warranty terms.

DA Mount



Weight
28.9 lbs. (13.1kg)

Ordering Information

Fully assembled luminaire is composed of two components that must be ordered separately:
Example: **Mount:** OSQ-B-AASV + **Luminaire:** OSQ-A-NM-2ME-B-40K-UL-SV

Mount (Luminaire must be ordered separately)*	
OSQ-	
OSQ-B-AA Adjustable Arm **OSQ-DA** Direct Arm **OSQ-M-TSP** Transportation Mount (stainless steel; do not specify color) **OSQ-TM** Trunnion Mount	**Color Options:** **SV** Silver **BZ** Bronze **BK** Black **WH** White

* Reference EPA and pole configuration suitability data beginning on page 10

Luminaire (Mount must be ordered separately)

OSQ	A	NM						
Product	**Version**	**Mounting**	**Optic**	**Input Power Designator**	**CCT**	**Voltage**	**Color Options**	**Options**
OSQ	**A**	**NM** No Mount	**Asymmetric** **2ME*** Type II Medium **4ME*** Type IV Medium **3ME*** Type III Medium **Symmetric** **5ME** Type V Medium **5SH** Type V Short **5SQ** Type V Square **WSN** Wide Sign **15D** 15° Flood **25D** 25° Flood **40D** 40° Flood **60D** 60° Flood **120D** 120° Flood	**B** 86W **K** 130W **Z** 53W	**30K** 3000K, 70 CRI **40K** 4000K, 70 CRI **50K** 5000K, 90 CRI **57K** 5700K, 70 CRI	**UL** Universal 120-277V **UH** Universal 347-480V - Available with B & K Input Power Designators only	**BK** Black **BZ** Bronze **SV** Silver **WH** White	**F** **Fuse** - Compatible only with 120V, 277V or 347V (phase to neutral) - Consult factory if fusing is required for 208V, 240V or 480V (phase to phase) - Refer to PML spec sheet for availability with PML options - When code dictates fusing, use time delay fuse **PML** **Programmable Multi-Level, up to 40' Mounting Height** - Refer to PML spec sheet for details - Intended for downlight applications at 0° tilt **PML2** **Programmable Multi-Level, 10-30' Mounting Height** - Refer to PML spec sheet for details - Intended for downlight applications at 0° tilt **Q9/Q6/Q5/Q4/Q3/Q2/Q1 Field Adjustable Output** - Must select Q9, Q6, Q5, Q4, Q3, Q2, or Q1 - Offers full range adjustability - Refer to pages 12-13 for power and lumen values - Available with B & K Input Power Designators only - Not available with PML or PML2 options **R** **NEMA® 7-Pin Photocell Receptacle** - 7-pin receptacle per ANSI C136.41 - Intended for downlight applications with maximum 45° tilt - Factory connected 0-10V dim leads - 18" (457mm) seven-conductor cord exits luminaire - Requires photocell or shorting cap by others **RL** **Rotate Left** - LED and optic are rotated to the left - Refer to RR/RL configuration diagram on page 14 for optic directionality - Not for use with symmetric optics **RR** **Rotate Right** - LED and optic are rotated to the right - Refer to RR/RL configuration diagram on page 14 for optic directionality - Not for use with symmetric optics

* Available with Backlight Shield when ordered with field-installed accessory (see table above)

US: creelighting.com (800) 236-6800
Canada: creelighting-canada.com (800) 473-1234

Product Specifications

CREE TRUEWHITE® TECHNOLOGY

A revolutionary way to generate high-quality white light, Cree TrueWhite® Technology is a patented approach that delivers an exclusive combination of 90+ CRI, beautiful light characteristics and lifelong color consistency, all while maintaining high luminous efficacy – a true no compromise solution.

CONSTRUCTION & MATERIALS

- Slim, low profile design minimizes wind load requirements
- Luminaire housing is rugged die cast aluminum with an integral, weathertight LED driver compartment and high-performance heat sink
- Convenient interlocking mounting method on direct arm mount. Mounting adaptor is rugged die cast aluminum and mounts to 3" (76mm) or larger square or round pole, secured by two 5/16-18 UNC bolts spaced on 2" (51mm) centers
- Mounting for the adjustable arm mount adaptor is rugged die cast aluminum and mounts to 2" (51mm) IP, 2.375" (60mm) O.D. tenon
- Adjustable arm mount can be adjusted 180° in 2.5° increments
- Transportation mount is constructed of 316 stainless steel and mounts to surface with (4) 3/8" fasteners by others
- Trunnion mount is constructed of A500 and A1011 steel and is adjustable from 0-180° in 15° degree increments. Trunnion mount secures to surface with (1) 3/4" bolt or (2) 1/2" or 3/8" bolts
- Includes 18" (340mm) 18/5 or 16/5 cord exiting the luminaire. When ordered with R option, 18" (340mm) 18/7 or 16/7 cord is provided
- Designed for uplight and downlight applications
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver, bronze, black, and white are available
- **Weight:** OSQ-DA: 28.9 lbs. (13.1kg); OSQ-B-AA: 28.4 lbs. (12.9kg); OSQ-M-TSP: 42 lbs. (19.1kg); OSQ-TM: 32.6 lbs. (14.8kg)

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- Designed with 0-10V dimming capabilities. Controls by others
- Refer to Dimming spec sheet for details
- **Maximum 10V Source Current:** 1.0mA
- **Operating Temperature Range:** -40°C - +40°C (-40°F - +104°F)

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Enclosure rated IP66 per IEC 60529 when ordered without R option
- Consult factory for CE Certified products
- Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards with AA, DA, TM, and TSP mounts
- ANSI C136.2 10kV surge protection, tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Meets Buy American requirements within ARRA
- DLC and DLC Premium qualified versions available. Some exceptions apply. Please refer to https://www.designlights.org/search/ for most current information
- RoHS compliant. Consult factory for additional details
- Dark Sky Friendly, IDA Approved when ordered with 30K CCT and direct or transportation mounts only. Please refer to https://www.darksky.org/our-work/lighting/lighting-for-industry/fsa/fsa-products/ for most current information
- ⚠ **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – www.p65warnings.ca.gov

Product Specifications

SYNAPSE® SIMPLYSNAP INTELLIGENT CONTROL

The Synapse SimplySNAP platform is a highly intuitive connected lighting solution featuring zone dimming, motion sensing, and daylight harvesting with utility-grade power monitoring and support of up to 1000 nodes per gateway. The system features a reliable and robust self-healing mesh network with a browser-based interface that runs on smartphones, tablets, and PCs. The Twist-Lock Lighting Controller (TL7-B2) and Site Controller (SS450-002) take the OSQ Series to a new performance plateau, providing extreme energy productivity, code compliance and a better light experience.

Electrical Data*

Input Power Designator	System Watts 120-480V	Total Current (A)					
		120V	208V	240V	277V	347V	480V
B	86	0.73	0.43	0.37	0.32	0.25	0.19
K	130	1.09	0.65	0.56	0.49	0.38	0.28
Z	53**	0.46	0.26	0.22	0.19	N/A	N/A

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V or 347-480V+/-10%
** Available with UL voltage only

OSQ Series Ambient Adjusted Lumen Maintenance[1]

Ambient	Optic	Initial LMF	25K hr Reported[2] LMF	50K hr Reported[2] LMF	75K hr Reported[2]/ Estimated[3] LMF	100K hr Reported[2]/ Estimated[3] LMF
5°C (41°F)	Asymmetric	1.04	1.03	1.01	0.99[2]	0.97[2]
	Symmetric	1.05	1.05	1.05	1.05[3]	1.05[3]
10°C (50°F)	Asymmetric	1.03	1.02	1.00	0.98[2]	0.96[2]
	Symmetric	1.04	1.03	1.03	1.03[3]	1.03[3]
15°C (59°F)	Asymmetric	1.02	1.01	0.99	0.97[2]	0.95[2]
	Symmetric	1.02	1.02	1.02	1.02[3]	1.02[3]
20°C (68°F)	Asymmetric	1.01	1.00	0.98	0.96[2]	0.94[2]
	Symmetric	1.01	1.01	1.01	1.01[3]	1.01[3]
25°C (77°F)	Asymmetric	1.00	0.99	0.97	0.95[2]	0.93[2]
	Symmetric	1.00	1.00	1.00	1.00[3]	1.00[3]

[1] Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors. Please refer to the Temperature Zone Reference Document for outdoor average nighttime ambient conditions.
[2] In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.
[3] Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED.

Accessories

Field-Installed

Backlight Shield
OSQ-BLSMF
– Front facing optics
OSQ-BLSMR
– Rotated optics

Hand-Held Remote
XA-SENSREM
- For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required

Bird Spikes
OSQ-MED-BRDSPK

Shorting Cap
XA-XSLSHRT

Synapse Wireless Control Accessories

Twist-Lock Lighting Controller
TL7-B2
- Suitable for 120-277V (UL) voltage only
- Requires NEMA/ANSI C136.41 7-Pin Dimming Receptacle
- Not for use with PML or Q options
- Provides On/Off switching, dimming, power metering, digital sensor input, and status monitoring of luminaires
- Refer to TL7-B2 spec sheet for details

SimplySNAP Central Base Station
CBSSW-450-002
- Includes On-Site Controller (SS450-002) and 5-button switch
- Indoor and Outdoor rated
- Refer to CBSSW-450-002 spec sheet for details

Synapse Wireless Sensor
WSN-DPM
- Motion and light sensor
- Control multiple zones
- Refer to WSN-DPM spec sheet for details

SimplySNAP On-Site Controller
SS450-002
- Verizon® LTE-enabled
- Designed for indoor applications
- Refer to SS450-002 spec sheet for details

Building Management System (BMS) Gateway
BMS-GW-002
- Required for BACnet integration
- Refer to BMS-GW-002 spec sheet for details

Outdoor Antennas
(Optional, for increased range, 8dB gain)
KIT-ANT420SM
- Kit includes antenna, 20' cable and bracket

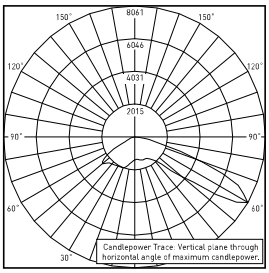
KIT-ANT360
- Kit includes antenna, 30' cable and bracket

KIT-ANT600
- Kit includes antenna, 50' cable and bracket
- Refer to Outdoor antenna spec sheet for details

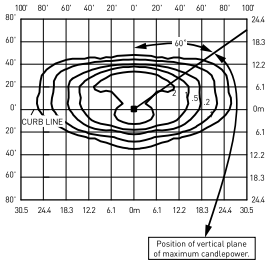
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: https://creelighting.com/products/outdoor/area/osq-series

2ME



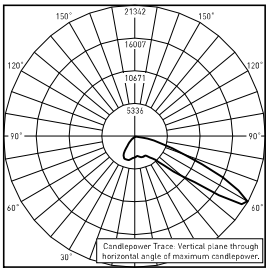
RESTL Test Report #: PL08877-001A
OSQ-A-**-2ME-B-30K-UL
Initial Delivered Lumens: 10,381



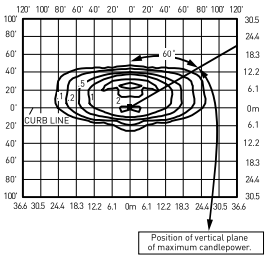
OSQ-A-**-2ME-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,424
Initial FC at grade

Type II Medium Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,738	B2 U0 G2	11,424	B2 U0 G2	9,350	B2 U0 G2	11,648	B2 U0 G2
K	16,022	B3 U0 G3	16,959	B3 U0 G3	14,000	B3 U0 G2	17,291	B3 U0 G3
Z	6,481	B2 U0 G1	6,896	B2 U0 G1	5,750	B1 U0 G1	7,031	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt



CESTL Test Report #: PL07700-001A
OSQ-A-**-2ME-U-57K-UL w/OSQ-BLSLF
Initial Delivered Lumens: 22,822



OSQ-A-**-2ME-B-40K-UL w/OSQ-BLSMF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 8,779
Initial FC at grade

Type II Medium w/BLS Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11
B	8,251	B2 U0 G2	8,779	B2 U0 G2	7,200	B1 U0 G1	8,950	B2 U0 G2
K	12,312	B2 U0 G2	13,032	B2 U0 G2	10,750	B2 U0 G2	13,286	B2 U0 G2
Z	4,980	B1 U0 G1	5,299	B1 U0 G1	4,420	B1 U0 G1	5,402	B1 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
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Photometry

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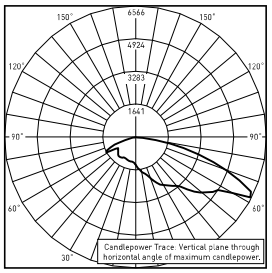
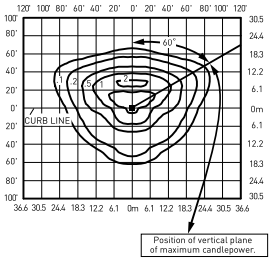
3ME



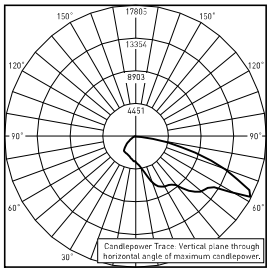
RESTL Test Report #: PL08876-001A
OSQ-A-**-3ME-B-30K-UL
Initial Delivered Lumens: 10,421



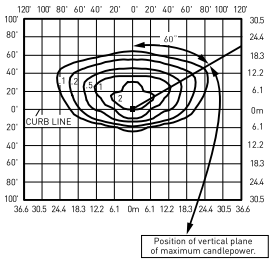
OSQ-A-**-3ME-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,424
Initial FC at grade

Type III Medium Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,738	B3 U0 G3	11,424	B3 U0 G3	9,350	B2 U0 G2	11,648	B3 U0 G3
K	16,022	B3 U0 G3	16,959	B3 U0 G3	14,000	B3 U0 G3	17,291	B3 U0 G3
Z	6,481	B2 U0 G2	6,896	B2 U0 G2	5,750	B2 U0 G2	7,031	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt



CESTL Test Report #: PL07699-001A
OSQ-A-**-3ME-U-57K-UL w/OSQ-BLSLF
Initial Delivered Lumens: 23,601



OSQ-A-**-3ME-B-40K-UL w/OSQ-BLSMF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 9,019
Initial FC at grade

Type III Medium w/BLS Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	8,477	B1 U0 G2	9,019	B1 U0 G2	7,400	B1 U0 G2	9,196	B1 U0 G2
K	12,649	B2 U0 G2	13,389	B2 U0 G2	11,050	B2 U0 G2	13,650	B2 U0 G2
Z	5,117	B1 U0 G1	5,444	B1 U0 G1	4,540	B1 U0 G1	5,551	B1 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

Photometry

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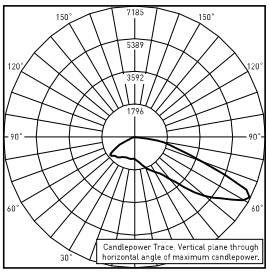
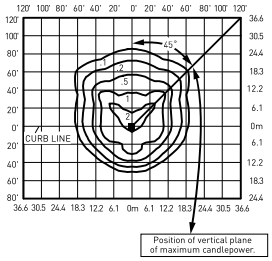
4ME



RESTL Test Report #: PL08878-001A
OSQ-A-**-4ME-B-30K-UL
Initial Delivered Lumens: 10,230



OSQ-A-**-4ME-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,424
Initial FC at grade

Type IV Medium Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,738	B2 U0 G2	11,424	B2 U0 G2	9,350	B2 U0 G2	11,648	B2 U0 G2
K	16,022	B3 U0 G3	16,959	B3 U0 G3	14,000	B3 U0 G3	17,291	B3 U0 G3
Z	6,481	B2 U0 G2	6,896	B2 U0 G2	5,750	B2 U0 G1	7,031	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
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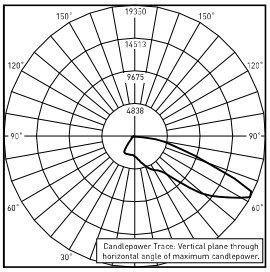
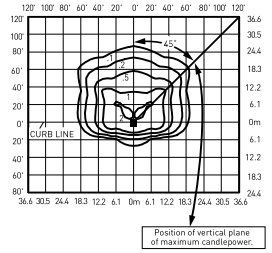


CESTL Test Report #: PL07692-001A
OSQ-A-**-4ME-U-57K-UL w/OSQ-BLSLF
Initial Delivered Lumens: 22,793



OSQ-A-**-4ME-B-40K-UL w/OSQ-BLSMF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 8,779
Initial FC at grade

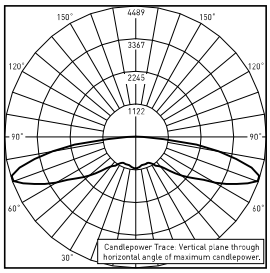
Type IV Medium w/BLS Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	8,251	B1 U0 G2	8,779	B1 U0 G2	7,200	B1 U0 G2	8,950	B1 U0 G2
K	12,312	B2 U0 G2	13,032	B2 U0 G2	10,750	B2 U0 G2	13,286	B2 U0 G2
Z	4,980	B1 U0 G1	5,299	B1 U0 G1	4,420	B1 U0 G1	5,402	B1 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

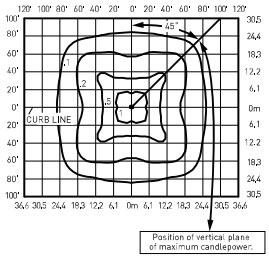
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: https://creelighting.com/products/outdoor/area/osq-series

5ME



RESTL Test Report #: PL08534-001B
OSQ-A-**-5ME-B-40K-UL
Initial Delivered Lumens: 10,519

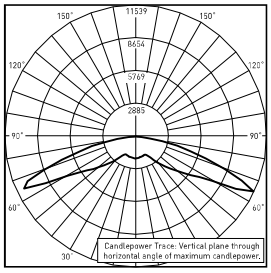


OSQ-A-**-5ME-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 10,867
Initial FC at grade

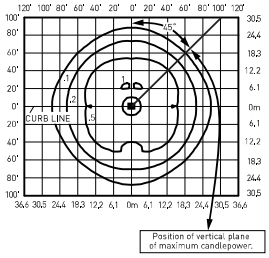
Type V Medium Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,232	B4 U0 G3	10,867	B4 U0 G3	10,000	B4 U0 G3	11,056	B4 U0 G3
K	15,063	B4 U0 G4	15,999	B4 U0 G4	14,925	B4 U0 G4	16,277	B4 U0 G4
Z	5,257	B3 U0 G3	6,086	B3 U0 G3	6,175	B3 U0 G3	6,192	B3 U0 G3

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

5SH



CESTL Test Report #: PL10754-001A
OSQ-A-**-5SH-U-40K-UL
Initial Delivered Lumens: 25,679



OSQ-A-**-5SH-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,478
Initial FC at grade

Type V Short Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,806	B4 U0 G2	11,478	B4 U0 G2	10,575	B4 U0 G2	11,678	B4 U0 G2
K	15,909	B4 U0 G3	16,897	B4 U0 G3	15,800	B4 U0 G3	17,191	B4 U0 G3
Z	5,552	B3 U0 G1	6,428	B3 U0 G2	6,525	B3 U0 G2	6,539	B3 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

Photometry

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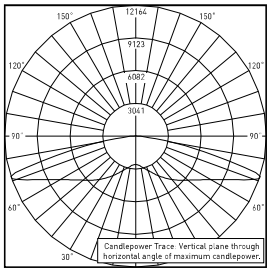
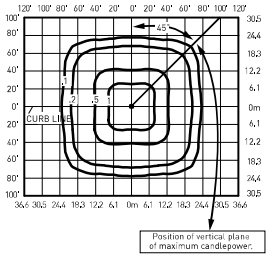
5SQ



RESTL Test Report #: PL14561-001B
OSQ-A-**-5SQ-U-57K-UL
Initial Delivered Lumens: 28,716



OSQ-A-NM-5SQ-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,478
Initial FC at grade

Type V Square Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,806	B3 U0 G2	11,478	B4 U0 G2	10,575	B3 U0 G2	11,678	B4 U0 G2
K	15,909	B4 U0 G2	16,897	B4 U0 G2	15,800	B4 U0 G2	17,191	B4 U0 G2
Z	5,552	B3 U0 G1	6,428	B3 U0 G1	6,525	B3 U0 G1	6,539	B3 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
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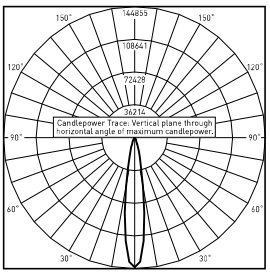
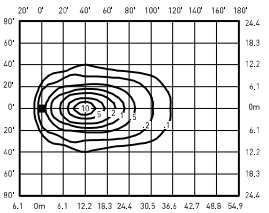
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: https://creelighting.com/products/outdoor/area/osq-series

15D



CESTL Test Report #: PL07689-001A
OSQ-A-**-15D-U-30K-UL
Initial Delivered Lumens: 23,254

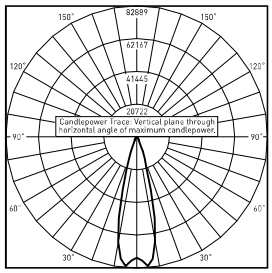


OSQ-A-**-15D-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

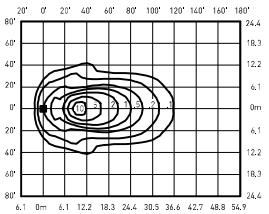
15° Flood Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

25D



CESTL Test Report #: PL07696-001A
OSQ-A-**-25D-U-30K-UL
Initial Delivered Lumens: 23,265

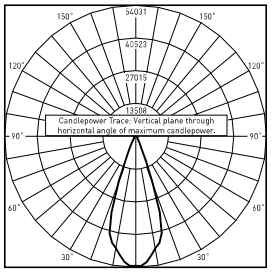


OSQ-A-**-25D-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

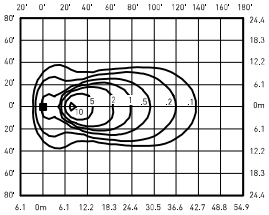
25° Flood Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

40D



CESTL Test Report #: PL07697-001A
OSQ-A-**-40D-U-30K-UL
Initial Delivered Lumens: 22,943



OSQ-A-**-40D-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

40° Flood Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

Photometry

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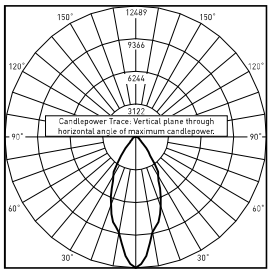
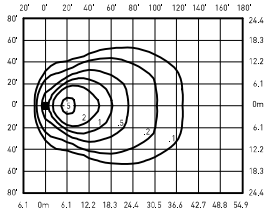
60D



CESTL Test Report #: PL08100-001B
OSQ-A-**-60D-B-30K-UL
Initial Delivered Lumens: 10,079

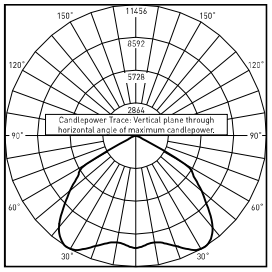


OSQ-A-**-60D-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

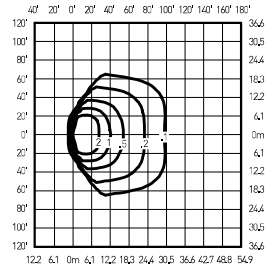
60° Flood Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

120D



RESTL Test Report #: PL15731-001A
OSQ-A-**-120D-U-40K-UL
Initial Delivered Lumens: 25,501

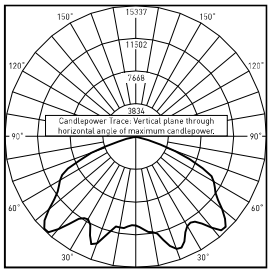


OSQ-A-**-120D-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

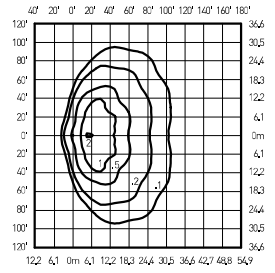
Type 120° Flood Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

WSN



CESTL Test Report #: PL07695-001A
OSQ-A-**-WSN-U-30K-UL
Initial Delivered Lumens: 23,116



OSQ-A-**-WSN-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

Wide Sign Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

Luminaire EPA

Adjustable Arm Mount – OSQ-B-AA Weight: 28.4 lbs. (12.9kg)							
Single	2 @ 180˚	2 @ 90˚	3 @ 90˚	3 @ 120˚	3 @ 180˚	4 @ 180˚	4 @ 90˚
Tenon Configuration (0˚-80˚ Tilt); If used with Cree Lighting tenons, please add tenon EPA with Luminaire EPA							
 PB-1A*; PT-1; PW-1A3**	 PB-2A*; PB-2R2.375; PD-2A4(180); PT-2(180); PW-2A3**	 PB-2A*; PD-2A4(90); PT-2(90)	 PB-3A*; PD-3A4(90); PT-3(90)	 PB-3A*; PT-3(120)	 PB-3A*; PB-3R2.375	 PB-4A*(180)	 PB-4A*(90); PB-4R2.375; PD-4A4(90); PT-4(90)
0˚ Tilt							
0.74	1.48	1.19	1.93	1.63	3.33	4.66	2.38
10˚ Tilt							
0.75	1.48	1.49	2.23	2.15	4.22	5.84	2.98
20˚ Tilt							
1.12	1.48	1.86	2.60	2.85	5.31	7.32	3.72
30˚ Tilt							
1.46	1.48	2.20	2.94	3.56	6.34	8.68	4.40
45˚ Tilt							
1.96	1.96	2.69	3.43	4.54	7.83	10.68	5.38
60˚ Tilt							
2.33	2.33	3.07	3.81	5.11	8.94	12.16	6.14
70˚ Tilt							
2.49	2.49	3.23	3.97	5.11	9.43	12.80	6.46
80˚ Tilt							
2.58	2.58	3.32	4.06	5.11	9.71	13.16	6.64
Tenon Configuration (90˚ Tilt); If used with Cree Lighting tenons, please add tenon EPA with Luminaire EPA							
PB-1A*; PT-1; PW-1A3**	PB-2A*; PB-2R2.375; PD-2A4(180); PT-2(180); PW-2A3**	PB-2A*	PB-3A*	PB-3A*; PT-3(120)	PB-3A*; PB-3R2.375	PB-4A*(180)	PB-4A*(90); PB-4R2.375
90˚ Tilt							
2.61	2.61	4.44	6.05	5.11	9.79	13.28	10.39

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation
** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")

Tenon EPA

Part Number	EPA
PB-1A*	None
PB-2A*	0.82
PB-3A*	1.52
PB-4A*(180)	2.22
PB-4A*(90)	1.11
PB-2R2.375	0.92
PB-3R2.375	1.62
PB-4R2.375	2.32
PD Series Tenons	0.09
PT Series Tenons	0.10
PW-1A3**	0.47
PW-2A3**	0.94
WM-2	0.08
WM-4	0.25
WM-DM	None

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation
** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")

Tenons and Brackets‡ (must specify color)

Square Internal Mount Vertical Tenons (Steel)
- Mounts to 3-6" (76-152mm) square aluminum or steel poles

PB-1A* – Single
PB-2A* – 180˚ Twin
PB-3A* – 180˚ Triple
PB-4A*(90) – 90˚ Quad
PB-4A*(180) – 180˚ Quad

Square Internal Mount Horizontal Tenons (Aluminum)
- Mounts to 4" (102mm) square aluminum or steel poles

PD-2A4(90) – 90˚ Twin
PD-2A4(180) – 180˚ Twin
PD-3A4(90) – 90˚ Triple
PD-4A4(90) – 90˚ Quad

Wall Mount Brackets
- Mounts to wall or roof

WM-2 – Horizontal for OSQ-B-AA mount
WM-4 – L-Shape for OSQ-B-AA mount
WM-DM – Plate for OSQ-DA mount

Round External Mount Vertical Tenons (Steel)
- Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons

PB-2R2.375 – Twin
PB-3R2.375 – Triple
PB-4R2.375 – Quad

Round External Mount Horizontal Tenons (Aluminum)
- Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons
- Mounts to square pole with PB-1A* tenon

PT-1 – Single (Vertical)
PT-2(90) – 90˚ Twin
PT-2(180) – 180˚ Twin
PT-3(90) – 90˚ Triple
PT-3(120) – 120˚ Triple
PT-4(90) – 90˚ Quad

Mid-Pole Bracket
- Mounts to square pole

PW-1A3** – Single
PW-2A3** – Double

Ground Mount Post
- For ground-mounted flood luminaires

PGM-1 - for OSQ-B-AA mount

‡ Refer to the Bracket and Tenons spec sheet for more details

Luminaire EPA

Direct Arm Mount – OSQ-DA Weight: 28.9 lbs. (13.1kg)					
Single	2 @ 180˚	2 @ 90˚	3 @ 90˚	3 @ 120˚	4 @ 90˚
					
0.74	1.48	1.19	1.93	1.63	2.38

Direct Mount Configurations

Compatibility with OSQ-DA Direct Mount Bracket					
Input Power Designator	2 @ 90˚	2 @ 180˚	3 @ 90˚	3 @ 120˚	4 @ 90˚
3" Square					
B, K & Z	N/A	✓	N/A	N/A	N/A
3" Round					
B, K & Z	N/A	✓	N/A	N/A	N/A
4" Square					
B, K & Z	✓	✓	✓	N/A	✓
4" Round					
B, K & Z	✓	✓	✓	✓	✓
5" Square					
B, K & Z	✓	✓	✓	N/A	✓
5" Round					
B, K & Z	✓	✓	✓	✓	✓
6" + Square					
B, K & Z	✓	✓	✓	N/A	✓
6" + Round					
B, K & Z	✓	✓	✓	✓	✓

Luminaire EPA

Trunnion Mount – OSQ-TM Weight: 32.6 lbs. (14.8kg)
Single
0˚ Tilt
0.75
15˚ Tilt
0.99
30˚ Tilt
1.57
45˚ Tilt
2.07
60˚ Tilt
2.46
75˚ Tilt
2.67
90˚ Tilt
2.33

Field Adjustable Output (Q9/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the OSQ area luminaires to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected Q setting and will be fully adjustable between the nine settings.

Q Option Power & Lumen Data – Designator B

Q Option Setting	CCT/CRI	System Watts	Lumen Values						Optics Qualified on DLC QPL	
		120-480V	Asymmetric	5ME	5SH, 5SQ & Floods	2ME w/ BLS	3ME w/ BLS	4ME w/BLS	Standard	Premium
Q9 (Full Power)	30K (70 CRI)	86	10,738	10,232	10,806	8,251	8,477	8,251	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		11,424	10,867	11,478	8,779	9,019	8,779	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		9,350	10,000	10,575	7,200	7,400	7,200	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		11,648	11,056	11,678	8,950	9,196	8,950	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q6	30K (70 CRI)	77	9,449	9,004	9,509	7,261	7,460	7,261	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		10,053	9,563	10,101	7,726	7,937	7,726	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		8,350	8,950	9,450	6,425	6,600	6,425	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		10,250	9,729	10,277	7,876	8,092	7,876	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q5	30K (70 CRI)	72	8,913	8,492	8,969	6,848	7,036	6,848	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		9,482	9,020	9,527	7,287	7,486	7,287	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		7,525	8,050	8,525	5,775	5,950	5,775	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		9,668	9,176	9,693	7,429	7,633	7,429	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q4	30K (70 CRI)	62	7,731	7,367	7,780	5,941	6,103	5,941	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		8,225	7,824	8,264	6,321	6,494	6,321	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		6,575	7,025	7,425	5,050	5,175	5,050	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		8,387	7,960	8,408	6,444	6,621	6,444	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q3	30K (70 CRI)	53	6,550	6,241	6,592	5,033	5,171	5,033	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		6,969	6,629	7,002	5,355	5,502	5,355	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		5,575	5,975	6,325	4,290	4,410	4,290	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		7,105	6,744	7,124	5,460	5,610	5,460	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q2	30K (70 CRI)	45	5,476	5,218	5,511	4,208	4,323	4,208	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		5,826	5,542	5,854	4,477	4,600	4,477	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		4,550	4,890	5,175	3,500	3,590	3,500	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		5,940	5,639	5,956	4,565	4,690	4,565	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q1	30K (70 CRI)	34	4,188	3,990	4,214	3,218	3,306	3,218	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		4,455	4,238	4,476	3,424	3,517	3,424	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		3,500	3,770	3,980	2,690	2,760	2,690	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		4,543	4,312	4,554	3,491	3,586	3,491	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN

Field Adjustable Output (Q9/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the OSQ area luminaires to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected Q setting and will be fully adjustable between the nine settings.

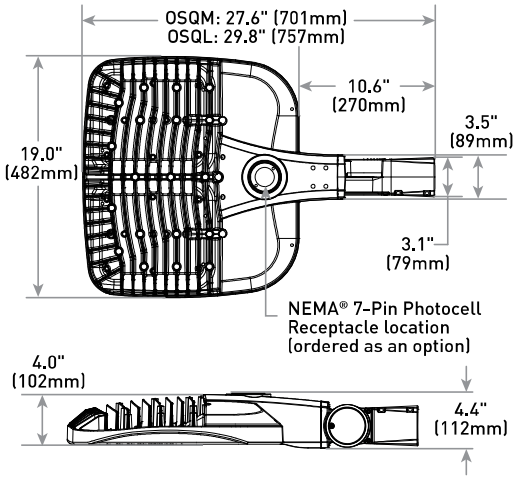
Q Option Power & Lumen Data – Designator K

Q Option Setting	CCT/CRI	System Watts	Lumen Values						Optics Qualified on DLC QPL	
		120-480V	Asymmetric	5ME	5SH, 5SQ & Floods	2ME w/BLS	3ME w/BLS	4ME w/BLS	Standard	Premium
Q9 (Full Power)	30K (70 CRI)	130	16,022	15,063	15,909	12,312	12,649	12,312	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		16,959	15,999	16,897	13,032	13,389	13,032	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		14,000	14,925	15,800	10,750	11,050	10,750	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		17,291	16,277	17,191	13,286	13,650	13,286	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q6	30K (70 CRI)	117	14,099	13,255	14,000	10,835	11,131	10,835	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		14,924	14,079	14,869	11,468	11,782	11,468	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		12,500	13,350	14,100	9,600	9,875	9,600	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		15,216	14,324	15,128	11,692	12,012	11,692	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q5	30K (70 CRI)	110	13,298	12,502	13,204	10,219	10,499	10,219	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		14,076	13,279	14,025	10,817	11,113	10,817	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		11,250	12,050	12,725	8,650	8,900	8,650	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		14,352	13,510	14,269	11,027	11,330	11,027	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q4	30K (70 CRI)	93	11,536	10,845	11,454	8,865	9,107	8,865	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		12,210	11,519	12,166	9,383	9,640	9,383	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		9,825	10,525	11,100	7,550	7,750	7,550	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		12,450	11,719	12,378	9,566	9,828	9,566	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q3	30K (70 CRI)	80	9,773	9,188	9,704	7,510	7,716	7,510	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		10,345	9,759	10,307	7,950	8,167	7,950	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		8,350	8,950	9,475	6,425	6,600	6,425	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		10,548	9,929	10,487	8,104	8,327	8,104	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q2	30K (70 CRI)	67	8,171	7,682	8,114	6,279	6,451	6,279	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		8,649	8,159	8,617	6,646	6,828	6,646	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		6,825	7,325	7,725	5,250	5,375	5,250	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		8,818	8,301	8,767	6,776	6,962	6,776	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q1	30K (70 CRI)	51	6,249	5,875	6,205	4,802	4,933	4,802	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		6,614	6,240	6,590	5,082	5,222	5,082	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		5,250	5,650	5,975	4,030	4,150	4,030	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		6,743	6,348	6,704	5,182	5,324	5,182	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN

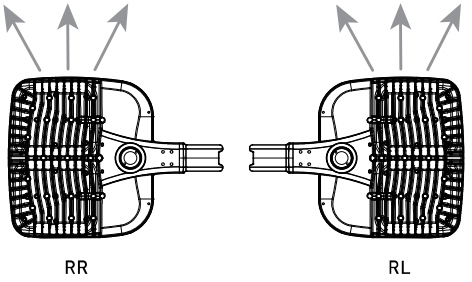
AA Mount



Weight
28.4 lbs. (12.9kg)



RR/RL Configuration

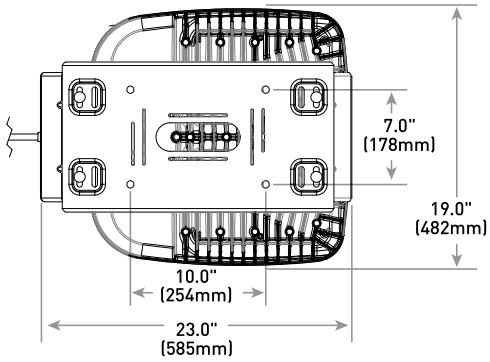


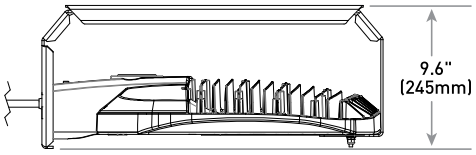
TSP Mount



Weight
42.0 lbs. (19.1kg)

OSQ Large luminaire shown.



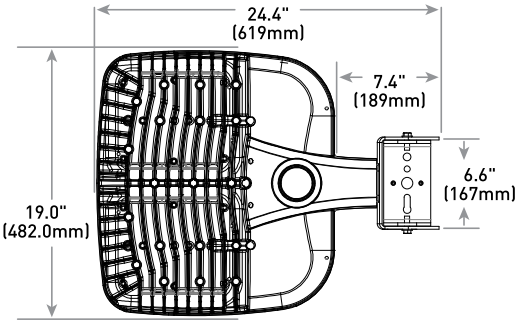


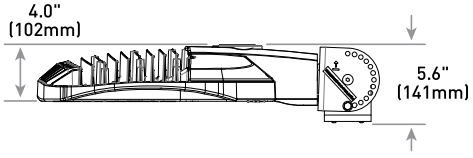
TM Mount



Weight
32.6 lbs. (14.8kg)

OSQ Large luminaire shown.





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US: creelighting.com (800) 236-6800
Canada: creelighting-canada.com (800) 473-1234

CREE LIGHTING
A COMPANY OF *IDEAL INDUSTRIES, INC.*

OSQ Series

OSQ™ LED Area/Flood Luminaire featuring Cree TrueWhite® Technology – Medium

Rev. Date: V27 10/21/2020

Product Description

The OSQ™ Area/Flood luminaire blends extreme optical control, advanced thermal management and modern, clean aesthetics. Built to last, the housing is rugged cast aluminum with an integral, weathertight LED driver compartment. Versatile mounting configurations offer simple installation. Its slim, low-profile design minimizes wind load requirements and blends seamlessly into the site providing even, quality illumination. The 'B' Input power designator is a suitable upgrade for HID applications up to 250 Watt, and the 'K' Input power designator is a suitable upgrade for HID applications up to 400 Watt.

Applications: Parking lots, walkways, campuses, car dealerships, office complexes, tunnels, underpasses, and internal roadways

Performance Summary

Utilizes Cree TrueWhite® Technology on 5000K Luminaires

NanoOptic® Precision Delivery Grid™ optic

Assembled in the U.S.A. of U.S. and imported parts

Initial Delivered Lumens: Up to 17,291

Efficacy: Up to 136 LPW

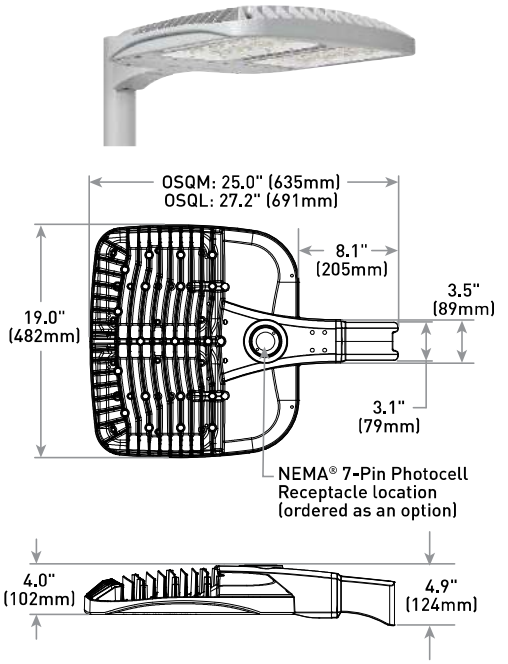
CRI: Minimum 70 CRI (3000K, 4000K & 5700K); 90 CRI (5000K)

CCT: 3000K, 4000K, 5000K, 5700K

Limited Warranty†: 10 years on luminaire; 10 years on Colorfast DeltaGuard® finish; up to 5 years for Synapse® accessories; 1 year on luminaire accessories

† See http://creelighting.com/warranty for warranty terms. For Synapse accessories, consult Synapse spec sheets for details on warranty terms.

DA Mount



Weight
28.9 lbs. (13.1kg)

Ordering Information

Fully assembled luminaire is composed of two components that must be ordered separately:
Example: **Mount:** OSQ-B-AASV + **Luminaire:** OSQ-A-NM-2ME-B-40K-UL-SV

Mount (Luminaire must be ordered separately)*	
OSQ-	
OSQ-B-AA Adjustable Arm **OSQ-DA** Direct Arm **OSQ-M-TSP** Transportation Mount (stainless steel; do not specify color) **OSQ-TM** Trunnion Mount	**Color Options:** **SV** Silver **BZ** Bronze **BK** Black **WH** White

* Reference EPA and pole configuration suitability data beginning on page 10

Luminaire (Mount must be ordered separately)

OSQ	A	NM						
Product	**Version**	**Mounting**	**Optic**	**Input Power Designator**	**CCT**	**Voltage**	**Color Options**	**Options**
OSQ	**A**	**NM** No Mount	**Asymmetric** **2ME*** Type II Medium **3ME*** Type III Medium **4ME*** Type IV Medium **Symmetric** **5ME** Type V Medium **5SH** Type V Short **5SQ** Type V Square **WSN** Wide Sign **15D** 15° Flood **25D** 25° Flood **40D** 40° Flood **60D** 60° Flood **120D** 120° Flood	**B** 86W **K** 130W **Z** 53W	**30K** 3000K, 70 CRI **40K** 4000K, 70 CRI **50K** 5000K, 90 CRI **57K** 5700K, 70 CRI	**UL** Universal 120-277V **UH** Universal 347-480V - Available with B & K Input Power Designators only	**BK** Black **BZ** Bronze **SV** Silver **WH** White	**F Fuse** - Compatible only with 120V, 277V or 347V (phase to neutral) - Consult factory if fusing is required for 208V, 240V or 480V (phase to phase) - Refer to PML spec sheet for availability with PML options - When code dictates fusing, use time delay fuse **PML Programmable Multi-Level, up to 40' Mounting Height** - Refer to PML spec sheet for details - Intended for downlight applications at 0° tilt **PML2 Programmable Multi-Level, 10-30' Mounting Height** - Refer to PML spec sheet for details - Intended for downlight applications at 0° tilt **Q9/Q6/Q5/Q4/Q3/Q2/Q1 Field Adjustable Output** - Must select Q9, Q6, Q5, Q4, Q3, Q2, or Q1 - Offers full range adjustability - Refer to pages 12-13 for power and lumen values - Available with B & K Input Power Designators only - Not available with PML or PML2 options **R NEMA® 7-Pin Photocell Receptacle** - 7-pin receptacle per ANSI C136.41 - Intended for downlight applications with maximum 45° tilt - Factory connected 0-10V dim leads - 18" (457mm) seven-conductor cord exits luminaire - Requires photocell or shorting cap by others **RL Rotate Left** - LED and optic are rotated to the left - Refer to RR/RL configuration diagram on page 14 for optic directionality - Not for use with symmetric optics **RR Rotate Right** - LED and optic are rotated to the right - Refer to RR/RL configuration diagram on page 14 for optic directionality - Not for use with symmetric optics

* Available with Backlight Shield when ordered with field-installed accessory (see table above)

US: creelighting.com (800) 236-6800
Canada: creelighting-canada.com (800) 473-1234

Product Specifications

CREE TRUEWHITE® TECHNOLOGY

A revolutionary way to generate high-quality white light, Cree TrueWhite® Technology is a patented approach that delivers an exclusive combination of 90+ CRI, beautiful light characteristics and lifelong color consistency, all while maintaining high luminous efficacy – a true no compromise solution.

CONSTRUCTION & MATERIALS

- Slim, low profile design minimizes wind load requirements
- Luminaire housing is rugged die cast aluminum with an integral, weathertight LED driver compartment and high-performance heat sink
- Convenient interlocking mounting method on direct arm mount. Mounting adaptor is rugged die cast aluminum and mounts to 3" (76mm) or larger square or round pole, secured by two 5/16-18 UNC bolts spaced on 2" (51mm) centers
- Mounting for the adjustable arm mount adaptor is rugged die cast aluminum and mounts to 2" (51mm) IP, 2.375" (60mm) O.D. tenon
- Adjustable arm mount can be adjusted 180° in 2.5° increments
- Transportation mount is constructed of 316 stainless steel and mounts to surface with (4) 3/8" fasteners by others
- Trunnion mount is constructed of A500 and A1011 steel and is adjustable from 0-180° in 15° degree increments. Trunnion mount secures to surface with (1) 3/4" bolt or (2) 1/2" or 3/8" bolts
- Includes 18" (340mm) 18/5 or 16/5 cord exiting the luminaire. When ordered with R option, 18" (340mm) 18/7 or 16/7 cord is provided
- Designed for uplight and downlight applications
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver, bronze, black, and white are available
- **Weight:** OSQ-DA: 28.9 lbs. (13.1kg); OSQ-B-AA: 28.4 lbs. (12.9kg); OSQ-M-TSP: 42 lbs. (19.1kg); OSQ-TM: 32.6 lbs. (14.8kg)

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- Designed with 0-10V dimming capabilities. Controls by others
- Refer to Dimming spec sheet for details
- **Maximum 10V Source Current:** 1.0mA
- **Operating Temperature Range:** -40°C - +40°C (-40°F - +104°F)

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Enclosure rated IP66 per IEC 60529 when ordered without R option
- Consult factory for CE Certified products
- Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards with AA, DA, TM, and TSP mounts
- ANSI C136.2 10kV surge protection, tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Meets Buy American requirements within ARRA
- DLC and DLC Premium qualified versions available. Some exceptions apply. Please refer to https://www.designlights.org/search/ for most current information
- RoHS compliant. Consult factory for additional details
- Dark Sky Friendly, IDA Approved when ordered with 30K CCT and direct or transportation mounts only. Please refer to https://www.darksky.org/our-work/lighting/lighting-for-industry/fsa/fsa-products/ for most current information
- ⚠ **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – www.p65warnings.ca.gov

Product Specifications

SYNAPSE® SIMPLYSNAP INTELLIGENT CONTROL

The Synapse SimplySNAP platform is a highly intuitive connected lighting solution featuring zone dimming, motion sensing, and daylight harvesting with utility-grade power monitoring and support of up to 1000 nodes per gateway. The system features a reliable and robust self-healing mesh network with a browser-based interface that runs on smartphones, tablets, and PCs. The Twist-Lock Lighting Controller (TL7-B2) and Site Controller (SS450-002) take the OSQ Series to a new performance plateau, providing extreme energy productivity, code compliance and a better light experience.

Electrical Data*

Input Power Designator	System Watts 120-480V	Total Current (A)					
		120V	208V	240V	277V	347V	480V
B	86	0.73	0.43	0.37	0.32	0.25	0.19
K	130	1.09	0.65	0.56	0.49	0.38	0.28
Z	53**	0.46	0.26	0.22	0.19	N/A	N/A

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V or 347-480V+/-10%
** Available with UL voltage only

OSQ Series Ambient Adjusted Lumen Maintenance[1]

Ambient	Optic	Initial LMF	25K hr Reported[2] LMF	50K hr Reported[2] LMF	75K hr Reported[2]/ Estimated[3] LMF	100K hr Reported[2]/ Estimated[3] LMF
5°C (41°F)	Asymmetric	1.04	1.03	1.01	0.99[2]	0.97[2]
	Symmetric	1.05	1.05	1.05	1.05[3]	1.05[3]
10°C (50°F)	Asymmetric	1.03	1.02	1.00	0.98[2]	0.96[2]
	Symmetric	1.04	1.03	1.03	1.03[3]	1.03[3]
15°C (59°F)	Asymmetric	1.02	1.01	0.99	0.97[2]	0.95[2]
	Symmetric	1.02	1.02	1.02	1.02[3]	1.02[3]
20°C (68°F)	Asymmetric	1.01	1.00	0.98	0.96[2]	0.94[2]
	Symmetric	1.01	1.01	1.01	1.01[3]	1.01[3]
25°C (77°F)	Asymmetric	1.00	0.99	0.97	0.95[2]	0.93[2]
	Symmetric	1.00	1.00	1.00	1.00[3]	1.00[3]

[1] Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors. Please refer to the Temperature Zone Reference Document for outdoor average nighttime ambient conditions.
[2] In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.
[3] Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED.

Accessories

Field-Installed

Backlight Shield
OSQ-BLSMF
– Front facing optics
OSQ-BLSMR
– Rotated optics

Hand-Held Remote
XA-SENSREM
- For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required

Bird Spikes
OSQ-MED-BRDSPK

Shorting Cap
XA-XSLSHRT

Synapse Wireless Control Accessories

Twist-Lock Lighting Controller
TL7-B2
- Suitable for 120-277V (UL) voltage only
- Requires NEMA/ANSI C136.41 7-Pin Dimming Receptacle
- Not for use with PML or Q options
- Provides On/Off switching, dimming, power metering, digital sensor input, and status monitoring of luminaires
- Refer to TL7-B2 spec sheet for details

SimplySNAP Central Base Station
CBSSW-450-002
- Includes On-Site Controller (SS450-002) and 5-button switch
- Indoor and Outdoor rated
- Refer to CBSSW-450-002 spec sheet for details

Synapse Wireless Sensor
WSN-DPM
- Motion and light sensor
- Control multiple zones
- Refer to WSN-DPM spec sheet for details

SimplySNAP On-Site Controller
SS450-002
- Verizon® LTE-enabled
- Designed for indoor applications
- Refer to SS450-002 spec sheet for details

Building Management System (BMS) Gateway
BMS-GW-002
- Required for BACnet integration
- Refer to BMS-GW-002 spec sheet for details

Outdoor Antennas
(Optional, for increased range, 8dB gain)
KIT-ANT420SM
- Kit includes antenna, 20' cable and bracket

KIT-ANT360
- Kit includes antenna, 30' cable and bracket

KIT-ANT600
- Kit includes antenna, 50' cable and bracket
- Refer to Outdoor antenna spec sheet for details

US: creelighting.com (800) 236-6800
Canada: creelighting-canada.com (800) 473-1234

CREE LIGHTING

Photometry

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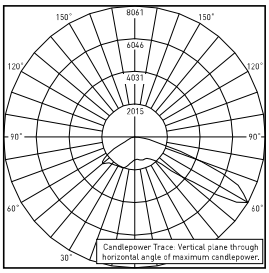
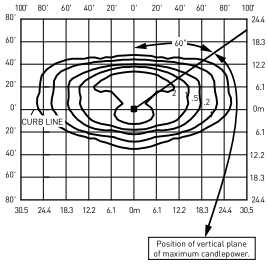
2ME



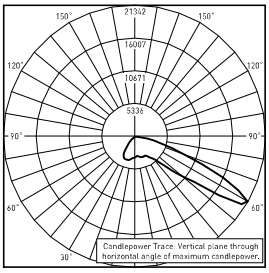
RESTL Test Report #: PL08877-001A
OSQ-A-**-2ME-B-30K-UL
Initial Delivered Lumens: 10,381



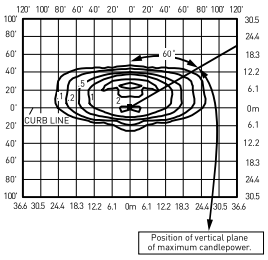
OSQ-A-**-2ME-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,424
Initial FC at grade

Type II Medium Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,738	B2 U0 G2	11,424	B2 U0 G2	9,350	B2 U0 G2	11,648	B2 U0 G2
K	16,022	B3 U0 G3	16,959	B3 U0 G3	14,000	B3 U0 G2	17,291	B3 U0 G3
Z	6,481	B2 U0 G1	6,896	B2 U0 G1	5,750	B1 U0 G1	7,031	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt



CESTL Test Report #: PL07700-001A
OSQ-A-**-2ME-U-57K-UL w/OSQ-BLSLF
Initial Delivered Lumens: 22,822



OSQ-A-**-2ME-B-40K-UL w/OSQ-BLSMF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 8,779
Initial FC at grade

Type II Medium w/BLS Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11
B	8,251	B2 U0 G2	8,779	B2 U0 G2	7,200	B1 U0 G1	8,950	B2 U0 G2
K	12,312	B2 U0 G2	13,032	B2 U0 G2	10,750	B2 U0 G2	13,286	B2 U0 G2
Z	4,980	B1 U0 G1	5,299	B1 U0 G1	4,420	B1 U0 G1	5,402	B1 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
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Photometry

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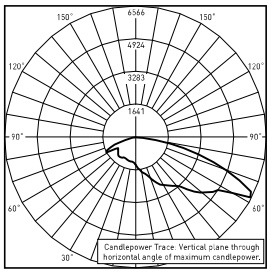
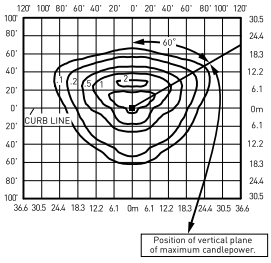
3ME



RESTL Test Report #: PL08876-001A
OSQ-A-**-3ME-B-30K-UL
Initial Delivered Lumens: 10,421



OSQ-A-**-3ME-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,424
Initial FC at grade

Type III Medium Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,738	B3 U0 G3	11,424	B3 U0 G3	9,350	B2 U0 G2	11,648	B3 U0 G3
K	16,022	B3 U0 G3	16,959	B3 U0 G3	14,000	B3 U0 G3	17,291	B3 U0 G3
Z	6,481	B2 U0 G2	6,896	B2 U0 G2	5,750	B2 U0 G2	7,031	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
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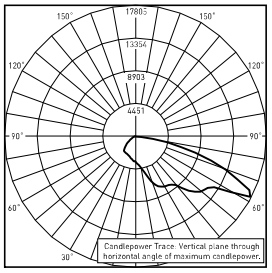
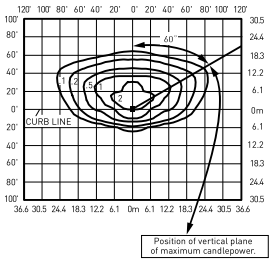


CESTL Test Report #: PL07699-001A
OSQ-A-**-3ME-U-57K-UL w/OSQ-BLSLF
Initial Delivered Lumens: 23,601



OSQ-A-**-3ME-B-40K-UL w/OSQ-BLSMF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 9,019
Initial FC at grade

Type III Medium w/BLS Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	8,477	B1 U0 G2	9,019	B1 U0 G2	7,400	B1 U0 G2	9,196	B1 U0 G2
K	12,649	B2 U0 G2	13,389	B2 U0 G2	11,050	B2 U0 G2	13,650	B2 U0 G2
Z	5,117	B1 U0 G1	5,444	B1 U0 G1	4,540	B1 U0 G1	5,551	B1 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
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Photometry

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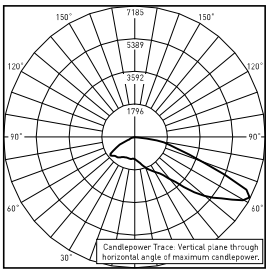
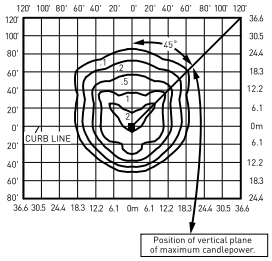
4ME



RESTL Test Report #: PL08878-001A
OSQ-A-**-4ME-B-30K-UL
Initial Delivered Lumens: 10,230



OSQ-A-**-4ME-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,424
Initial FC at grade

Type IV Medium Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,738	B2 U0 G2	11,424	B2 U0 G2	9,350	B2 U0 G2	11,648	B2 U0 G2
K	16,022	B3 U0 G3	16,959	B3 U0 G3	14,000	B3 U0 G3	17,291	B3 U0 G3
Z	6,481	B2 U0 G2	6,896	B2 U0 G2	5,750	B2 U0 G1	7,031	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
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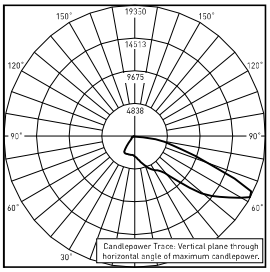
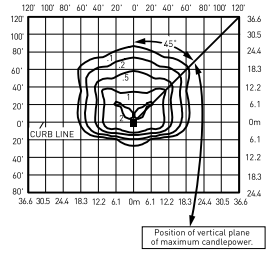


CESTL Test Report #: PL07692-001A
OSQ-A-**-4ME-U-57K-UL w/OSQ-BLSLF
Initial Delivered Lumens: 22,793



OSQ-A-**-4ME-B-40K-UL w/OSQ-BLSMF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 8,779
Initial FC at grade

Type IV Medium w/BLS Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	8,251	B1 U0 G2	8,779	B1 U0 G2	7,200	B1 U0 G2	8,950	B1 U0 G2
K	12,312	B2 U0 G2	13,032	B2 U0 G2	10,750	B2 U0 G2	13,286	B2 U0 G2
Z	4,980	B1 U0 G1	5,299	B1 U0 G1	4,420	B1 U0 G1	5,402	B1 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
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Photometry

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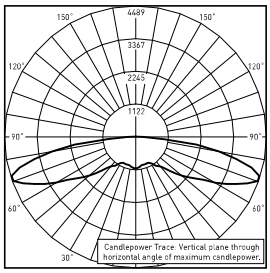
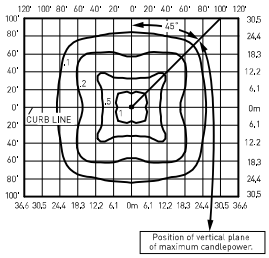
5ME



RESTL Test Report #: PL08534-001B
OSQ-A-**-5ME-B-40K-UL
Initial Delivered Lumens: 10,519



OSQ-A-**-5ME-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 10,867
Initial FC at grade

Type V Medium Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,232	B4 U0 G3	10,867	B4 U0 G3	10,000	B4 U0 G3	11,056	B4 U0 G3
K	15,063	B4 U0 G4	15,999	B4 U0 G4	14,925	B4 U0 G4	16,277	B4 U0 G4
Z	5,257	B3 U0 G3	6,086	B3 U0 G3	6,175	B3 U0 G3	6,192	B3 U0 G3

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
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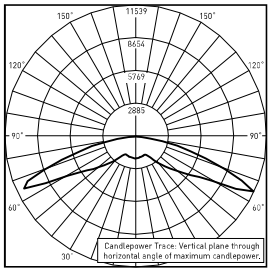
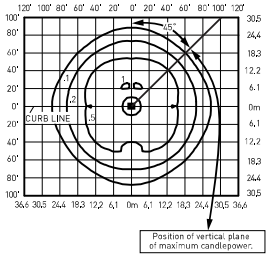
5SH



CESTL Test Report #: PL10754-001A
OSQ-A-**-5SH-U-40K-UL
Initial Delivered Lumens: 25,679



OSQ-A-**-5SH-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,478
Initial FC at grade

Type V Short Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,806	B4 U0 G2	11,478	B4 U0 G2	10,575	B4 U0 G2	11,678	B4 U0 G2
K	15,909	B4 U0 G3	16,897	B4 U0 G3	15,800	B4 U0 G3	17,191	B4 U0 G3
Z	5,552	B3 U0 G1	6,428	B3 U0 G2	6,525	B3 U0 G2	6,539	B3 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

Photometry

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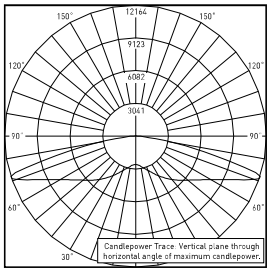
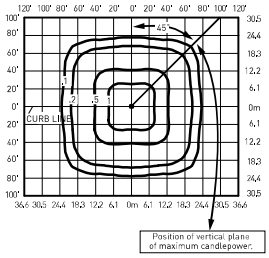
5SQ



RESTL Test Report #: PL14561-001B
OSQ-A-**-5SQ-U-57K-UL
Initial Delivered Lumens: 28,716



OSQ-A-NM-5SQ-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,478
Initial FC at grade

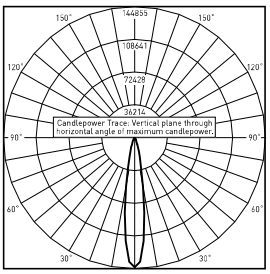
Type V Square Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,806	B3 U0 G2	11,478	B4 U0 G2	10,575	B3 U0 G2	11,678	B4 U0 G2
K	15,909	B4 U0 G2	16,897	B4 U0 G2	15,800	B4 U0 G2	17,191	B4 U0 G2
Z	5,552	B3 U0 G1	6,428	B3 U0 G1	6,525	B3 U0 G1	6,539	B3 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

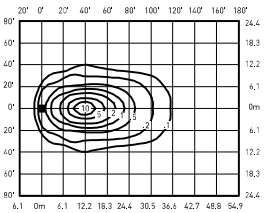
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: https://creelighting.com/products/outdoor/area/osq-series

15D



CESTL Test Report #: PL07689-001A
OSQ-A-**-15D-U-30K-UL
Initial Delivered Lumens: 23,254

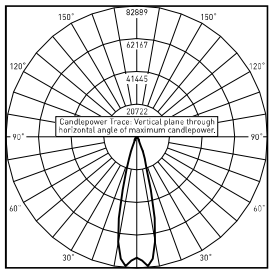


OSQ-A-**-15D-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

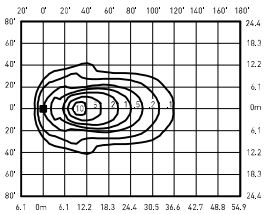
15° Flood Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

25D



CESTL Test Report #: PL07696-001A
OSQ-A-**-25D-U-30K-UL
Initial Delivered Lumens: 23,265

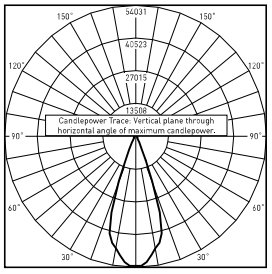


OSQ-A-**-25D-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

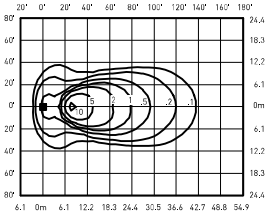
25° Flood Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

40D



CESTL Test Report #: PL07697-001A
OSQ-A-**-40D-U-30K-UL
Initial Delivered Lumens: 22,943



OSQ-A-**-40D-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

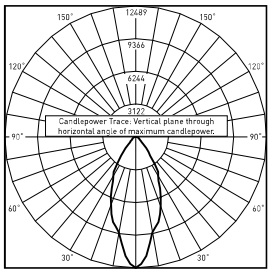
40° Flood Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

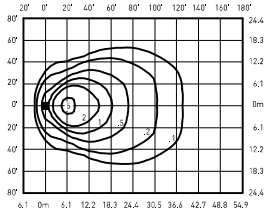
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: https://creelighting.com/products/outdoor/area/osq-series

60D



CESTL Test Report #: PL08100-001B
OSQ-A-**-60D-B-30K-UL
Initial Delivered Lumens: 10,079

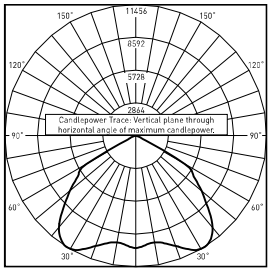


OSQ-A-**-60D-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

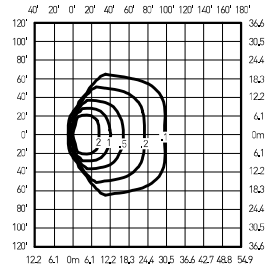
60° Flood Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

120D



RESTL Test Report #: PL15731-001A
OSQ-A-**-120D-U-40K-UL
Initial Delivered Lumens: 25,501

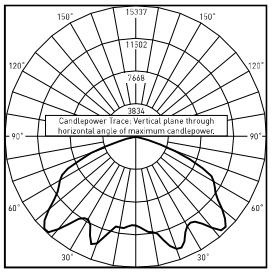


OSQ-A-**-120D-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

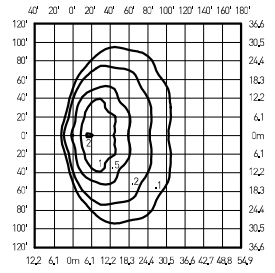
Type 120° Flood Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

WSN



CESTL Test Report #: PL07695-001A
OSQ-A-**-WSN-U-30K-UL
Initial Delivered Lumens: 23,116



OSQ-A-**-WSN-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

Wide Sign Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

Luminaire EPA

Adjustable Arm Mount – OSQ-B-AA Weight: 28.4 lbs. (12.9kg)							
Single	2 @ 180˚	2 @ 90˚	3 @ 90˚	3 @ 120˚	3 @ 180˚	4 @ 180˚	4 @ 90˚
Tenon Configuration (0˚-80˚ Tilt); If used with Cree Lighting tenons, please add tenon EPA with Luminaire EPA							
 PB-1A*; PT-1; PW-1A3**	 PB-2A*; PB-2R2.375; PD-2A4(180); PT-2(180); PW-2A3**	 PB-2A*; PD-2A4(90); PT-2(90)	 PB-3A*; PD-3A4(90); PT-3(90)	 PB-3A*; PT-3(120)	 PB-3A*; PB-3R2.375	 PB-4A*(180)	 PB-4A*(90); PB-4R2.375; PD-4A4(90); PT-4(90)
0˚ Tilt							
0.74	1.48	1.19	1.93	1.63	3.33	4.66	2.38
10˚ Tilt							
0.75	1.48	1.49	2.23	2.15	4.22	5.84	2.98
20˚ Tilt							
1.12	1.48	1.86	2.60	2.85	5.31	7.32	3.72
30˚ Tilt							
1.46	1.48	2.20	2.94	3.56	6.34	8.68	4.40
45˚ Tilt							
1.96	1.96	2.69	3.43	4.54	7.83	10.68	5.38
60˚ Tilt							
2.33	2.33	3.07	3.81	5.11	8.94	12.16	6.14
70˚ Tilt							
2.49	2.49	3.23	3.97	5.11	9.43	12.80	6.46
80˚ Tilt							
2.58	2.58	3.32	4.06	5.11	9.71	13.16	6.64
Tenon Configuration (90˚ Tilt); If used with Cree Lighting tenons, please add tenon EPA with Luminaire EPA							
PB-1A*; PT-1; PW-1A3**	PB-2A*; PB-2R2.375; PD-2A4(180); PT-2(180); PW-2A3**	PB-2A*	PB-3A*	PB-3A*; PT-3(120)	PB-3A*; PB-3R2.375	PB-4A*(180)	PB-4A*(90); PB-4R2.375
90˚ Tilt							
2.61	2.61	4.44	6.05	5.11	9.79	13.28	10.39

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation
** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")

Tenon EPA

Part Number	EPA
PB-1A*	None
PB-2A*	0.82
PB-3A*	1.52
PB-4A*(180)	2.22
PB-4A*(90)	1.11
PB-2R2.375	0.92
PB-3R2.375	1.62
PB-4R2.375	2.32
PD Series Tenons	0.09
PT Series Tenons	0.10
PW-1A3**	0.47
PW-2A3**	0.94
WM-2	0.08
WM-4	0.25
WM-DM	None

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation
** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")

Tenons and Brackets‡ (must specify color)

Square Internal Mount Vertical Tenons (Steel)
- Mounts to 3-6" (76-152mm) square aluminum or steel poles

PB-1A* – Single
PB-2A* – 180˚ Twin
PB-3A* – 180˚ Triple
PB-4A*(90) – 90˚ Quad
PB-4A*(180) – 180˚ Quad

Square Internal Mount Horizontal Tenons (Aluminum)
- Mounts to 4" (102mm) square aluminum or steel poles

PD-2A4(90) – 90˚ Twin
PD-2A4(180) – 180˚ Twin
PD-3A4(90) – 90˚ Triple
PD-4A4(90) – 90˚ Quad

Wall Mount Brackets
- Mounts to wall or roof

WM-2 – Horizontal for OSQ-B-AA mount
WM-4 – L-Shape for OSQ-B-AA mount
WM-DM – Plate for OSQ-DA mount

Round External Mount Vertical Tenons (Steel)
- Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons

PB-2R2.375 – Twin
PB-3R2.375 – Triple
PB-4R2.375 – Quad

Round External Mount Horizontal Tenons (Aluminum)
- Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons
- Mounts to square pole with PB-1A* tenon

PT-1 – Single (Vertical)
PT-2(90) – 90˚ Twin
PT-2(180) – 180˚ Twin
PT-3(90) – 90˚ Triple
PT-3(120) – 120˚ Triple
PT-4(90) – 90˚ Quad

Mid-Pole Bracket
- Mounts to square pole

PW-1A3** – Single
PW-2A3** – Double

Ground Mount Post
- For ground-mounted flood luminaires

PGM-1 - for OSQ-B-AA mount

‡ Refer to the Bracket and Tenons spec sheet for more details

Luminaire EPA

Direct Arm Mount – OSQ-DA Weight: 28.9 lbs. (13.1kg)					
Single	2 @ 180˚	2 @ 90˚	3 @ 90˚	3 @ 120˚	4 @ 90˚
					
0.74	1.48	1.19	1.93	1.63	2.38

Direct Mount Configurations

Compatibility with OSQ-DA Direct Mount Bracket					
Input Power Designator	2 @ 90˚	2 @ 180˚	3 @ 90˚	3 @ 120˚	4 @ 90˚
3" Square					
B, K & Z	N/A	✓	N/A	N/A	N/A
3" Round					
B, K & Z	N/A	✓	N/A	N/A	N/A
4" Square					
B, K & Z	✓	✓	✓	N/A	✓
4" Round					
B, K & Z	✓	✓	✓	✓	✓
5" Square					
B, K & Z	✓	✓	✓	N/A	✓
5" Round					
B, K & Z	✓	✓	✓	✓	✓
6" + Square					
B, K & Z	✓	✓	✓	N/A	✓
6" + Round					
B, K & Z	✓	✓	✓	✓	✓

Luminaire EPA

Trunnion Mount – OSQ-TM Weight: 32.6 lbs. (14.8kg)
Single
0˚ Tilt
0.75
15˚ Tilt
0.99
30˚ Tilt
1.57
45˚ Tilt
2.07
60˚ Tilt
2.46
75˚ Tilt
2.67
90˚ Tilt
2.33

Field Adjustable Output (Q9/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the OSQ area luminaires to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected Q setting and will be fully adjustable between the nine settings.

Q Option Power & Lumen Data – Designator B

Q Option Setting	CCT/CRI	System Watts	Lumen Values						Optics Qualified on DLC QPL	
		120-480V	Asymmetric	5ME	5SH, 5SQ & Floods	2ME w/ BLS	3ME w/ BLS	4ME w/BLS	Standard	Premium
Q9 (Full Power)	30K (70 CRI)	86	10,738	10,232	10,806	8,251	8,477	8,251	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		11,424	10,867	11,478	8,779	9,019	8,779	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		9,350	10,000	10,575	7,200	7,400	7,200	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		11,648	11,056	11,678	8,950	9,196	8,950	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q6	30K (70 CRI)	77	9,449	9,004	9,509	7,261	7,460	7,261	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		10,053	9,563	10,101	7,726	7,937	7,726	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		8,350	8,950	9,450	6,425	6,600	6,425	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		10,250	9,729	10,277	7,876	8,092	7,876	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q5	30K (70 CRI)	72	8,913	8,492	8,969	6,848	7,036	6,848	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		9,482	9,020	9,527	7,287	7,486	7,287	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		7,525	8,050	8,525	5,775	5,950	5,775	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		9,668	9,176	9,693	7,429	7,633	7,429	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q4	30K (70 CRI)	62	7,731	7,367	7,780	5,941	6,103	5,941	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		8,225	7,824	8,264	6,321	6,494	6,321	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		6,575	7,025	7,425	5,050	5,175	5,050	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		8,387	7,960	8,408	6,444	6,621	6,444	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q3	30K (70 CRI)	53	6,550	6,241	6,592	5,033	5,171	5,033	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		6,969	6,629	7,002	5,355	5,502	5,355	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		5,575	5,975	6,325	4,290	4,410	4,290	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		7,105	6,744	7,124	5,460	5,610	5,460	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q2	30K (70 CRI)	45	5,476	5,218	5,511	4,208	4,323	4,208	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		5,826	5,542	5,854	4,477	4,600	4,477	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		4,550	4,890	5,175	3,500	3,590	3,500	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		5,940	5,639	5,956	4,565	4,690	4,565	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q1	30K (70 CRI)	34	4,188	3,990	4,214	3,218	3,306	3,218	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		4,455	4,238	4,476	3,424	3,517	3,424	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		3,500	3,770	3,980	2,690	2,760	2,690	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		4,543	4,312	4,554	3,491	3,586	3,491	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN

Field Adjustable Output (Q9/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the OSQ area luminaires to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected Q setting and will be fully adjustable between the nine settings.

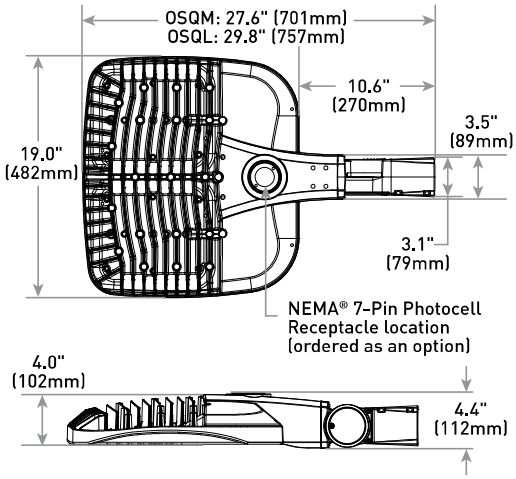
Q Option Power & Lumen Data – Designator K

Q Option Setting	CCT/CRI	System Watts	Lumen Values						Optics Qualified on DLC QPL	
		120-480V	Asymmetric	5ME	5SH, 5SQ & Floods	2ME w/BLS	3ME w/BLS	4ME w/BLS	Standard	Premium
Q9 (Full Power)	30K (70 CRI)	130	16,022	15,063	15,909	12,312	12,649	12,312	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		16,959	15,999	16,897	13,032	13,389	13,032	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		14,000	14,925	15,800	10,750	11,050	10,750	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		17,291	16,277	17,191	13,286	13,650	13,286	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q6	30K (70 CRI)	117	14,099	13,255	14,000	10,835	11,131	10,835	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		14,924	14,079	14,869	11,468	11,782	11,468	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		12,500	13,350	14,100	9,600	9,875	9,600	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		15,216	14,324	15,128	11,692	12,012	11,692	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q5	30K (70 CRI)	110	13,298	12,502	13,204	10,219	10,499	10,219	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		14,076	13,279	14,025	10,817	11,113	10,817	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		11,250	12,050	12,725	8,650	8,900	8,650	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		14,352	13,510	14,269	11,027	11,330	11,027	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q4	30K (70 CRI)	93	11,536	10,845	11,454	8,865	9,107	8,865	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		12,210	11,519	12,166	9,383	9,640	9,383	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		9,825	10,525	11,100	7,550	7,750	7,550	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		12,450	11,719	12,378	9,566	9,828	9,566	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q3	30K (70 CRI)	80	9,773	9,188	9,704	7,510	7,716	7,510	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		10,345	9,759	10,307	7,950	8,167	7,950	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		8,350	8,950	9,475	6,425	6,600	6,425	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		10,548	9,929	10,487	8,104	8,327	8,104	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q2	30K (70 CRI)	67	8,171	7,682	8,114	6,279	6,451	6,279	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		8,649	8,159	8,617	6,646	6,828	6,646	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		6,825	7,325	7,725	5,250	5,375	5,250	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		8,818	8,301	8,767	6,776	6,962	6,776	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q1	30K (70 CRI)	51	6,249	5,875	6,205	4,802	4,933	4,802	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		6,614	6,240	6,590	5,082	5,222	5,082	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		5,250	5,650	5,975	4,030	4,150	4,030	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		6,743	6,348	6,704	5,182	5,324	5,182	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN

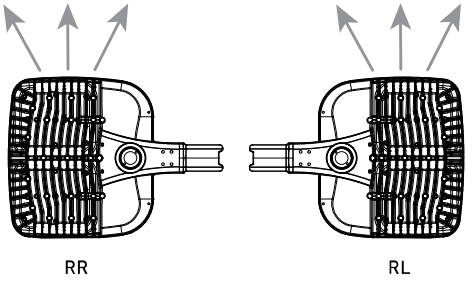
AA Mount



Weight
28.4 lbs. (12.9kg)



RR/RL Configuration

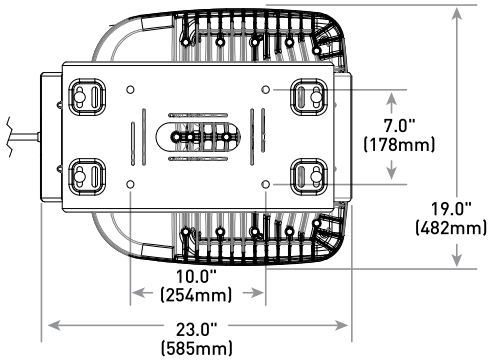


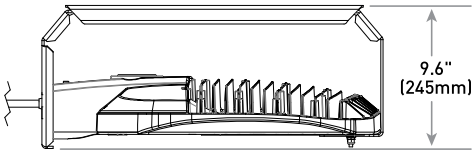
TSP Mount



Weight
42.0 lbs. (19.1kg)

OSQ Large luminaire shown.



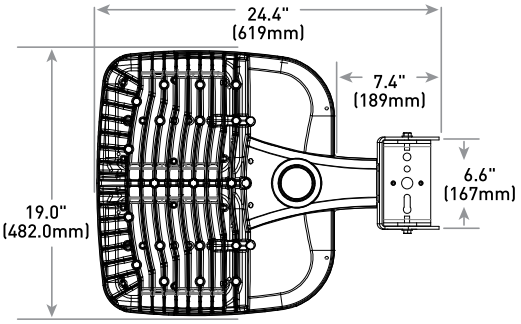


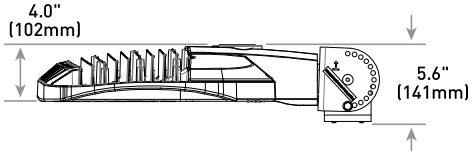
TM Mount



Weight
32.6 lbs. (14.8kg)

OSQ Large luminaire shown.





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CREE LIGHTING
A COMPANY OF *IDEAL INDUSTRIES, INC.*

OSQ Series

OSQ™ LED Area/Flood Luminaire featuring Cree TrueWhite® Technology – Medium

Rev. Date: V27 10/21/2020

Product Description

The OSQ™ Area/Flood luminaire blends extreme optical control, advanced thermal management and modern, clean aesthetics. Built to last, the housing is rugged cast aluminum with an integral, weathertight LED driver compartment. Versatile mounting configurations offer simple installation. Its slim, low-profile design minimizes wind load requirements and blends seamlessly into the site providing even, quality illumination. The 'B' Input power designator is a suitable upgrade for HID applications up to 250 Watt, and the 'K' Input power designator is a suitable upgrade for HID applications up to 400 Watt.

Applications: Parking lots, walkways, campuses, car dealerships, office complexes, tunnels, underpasses, and internal roadways

Performance Summary

Utilizes Cree TrueWhite® Technology on 5000K Luminaires

NanoOptic® Precision Delivery Grid™ optic

Assembled in the U.S.A. of U.S. and imported parts

Initial Delivered Lumens: Up to 17,291

Efficacy: Up to 136 LPW

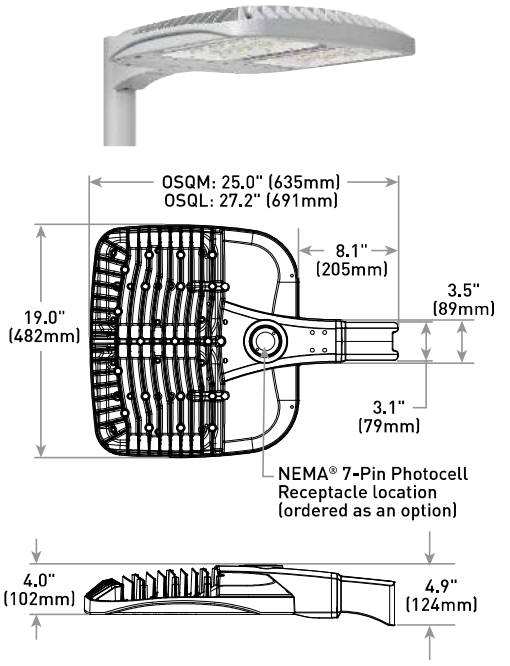
CRI: Minimum 70 CRI (3000K, 4000K & 5700K); 90 CRI (5000K)

CCT: 3000K, 4000K, 5000K, 5700K

Limited Warranty†: 10 years on luminaire; 10 years on Colorfast DeltaGuard® finish; up to 5 years for Synapse® accessories; 1 year on luminaire accessories

† See http://creelighting.com/warranty for warranty terms. For Synapse accessories, consult Synapse spec sheets for details on warranty terms.

DA Mount



Weight
28.9 lbs. (13.1kg)

Ordering Information

Fully assembled luminaire is composed of two components that must be ordered separately:
Example: **Mount:** OSQ-B-AASV + **Luminaire:** OSQ-A-NM-2ME-B-40K-UL-SV

Mount (Luminaire must be ordered separately)*	
OSQ-	
OSQ-B-AA Adjustable Arm **OSQ-DA** Direct Arm **OSQ-M-TSP** Transportation Mount (stainless steel; do not specify color) **OSQ-TM** Trunnion Mount	**Color Options:** **SV** Silver **BZ** Bronze **BK** Black **WH** White

* Reference EPA and pole configuration suitability data beginning on page 10

Luminaire (Mount must be ordered separately)

OSQ	A	NM						
Product	**Version**	**Mounting**	**Optic**	**Input Power Designator**	**CCT**	**Voltage**	**Color Options**	**Options**
OSQ	**A**	**NM** No Mount	**Asymmetric** **2ME*** Type II Medium **3ME*** Type III Medium **4ME*** Type IV Medium **Symmetric** **5ME** Type V Medium **5SH** Type V Short **5SQ** Type V Square **WSN** Wide Sign **15D** 15° Flood **25D** 25° Flood **40D** 40° Flood **60D** 60° Flood **120D** 120° Flood	**B** 86W **K** 130W **Z** 53W	**30K** 3000K, 70 CRI **40K** 4000K, 70 CRI **50K** 5000K, 90 CRI **57K** 5700K, 70 CRI	**UL** Universal 120-277V **UH** Universal 347-480V - Available with B & K Input Power Designators only	**BK** Black **BZ** Bronze **SV** Silver **WH** White	**F Fuse** - Compatible only with 120V, 277V or 347V (phase to neutral) - Consult factory if fusing is required for 208V, 240V or 480V (phase to phase) - Refer to PML spec sheet for availability with PML options - When code dictates fusing, use time delay fuse **PML Programmable Multi-Level, up to 40' Mounting Height** - Refer to PML spec sheet for details - Intended for downlight applications at 0° tilt **PML2 Programmable Multi-Level, 10-30' Mounting Height** - Refer to PML spec sheet for details - Intended for downlight applications at 0° tilt **Q9/Q6/Q5/Q4/Q3/Q2/Q1 Field Adjustable Output** - Must select Q9, Q6, Q5, Q4, Q3, Q2, or Q1 - Offers full range adjustability - Refer to pages 12-13 for power and lumen values - Available with B & K Input Power Designators only - Not available with PML or PML2 options **R NEMA® 7-Pin Photocell Receptacle** - 7-pin receptacle per ANSI C136.41 - Intended for downlight applications with maximum 45° tilt - Factory connected 0-10V dim leads - 18" (457mm) seven-conductor cord exits luminaire - Requires photocell or shorting cap by others **RL Rotate Left** - LED and optic are rotated to the left - Refer to RR/RL configuration diagram on page 14 for optic directionality - Not for use with symmetric optics **RR Rotate Right** - LED and optic are rotated to the right - Refer to RR/RL configuration diagram on page 14 for optic directionality - Not for use with symmetric optics

* Available with Backlight Shield when ordered with field-installed accessory (see table above)

US: creelighting.com (800) 236-6800
Canada: creelighting-canada.com (800) 473-1234

Product Specifications

CREE TRUEWHITE® TECHNOLOGY

A revolutionary way to generate high-quality white light, Cree TrueWhite® Technology is a patented approach that delivers an exclusive combination of 90+ CRI, beautiful light characteristics and lifelong color consistency, all while maintaining high luminous efficacy – a true no compromise solution.

CONSTRUCTION & MATERIALS

- Slim, low profile design minimizes wind load requirements
- Luminaire housing is rugged die cast aluminum with an integral, weathertight LED driver compartment and high-performance heat sink
- Convenient interlocking mounting method on direct arm mount. Mounting adaptor is rugged die cast aluminum and mounts to 3" (76mm) or larger square or round pole, secured by two 5/16-18 UNC bolts spaced on 2" (51mm) centers
- Mounting for the adjustable arm mount adaptor is rugged die cast aluminum and mounts to 2" (51mm) IP, 2.375" (60mm) O.D. tenon
- Adjustable arm mount can be adjusted 180° in 2.5° increments
- Transportation mount is constructed of 316 stainless steel and mounts to surface with (4) 3/8" fasteners by others
- Trunnion mount is constructed of A500 and A1011 steel and is adjustable from 0-180° in 15° degree increments. Trunnion mount secures to surface with (1) 3/4" bolt or (2) 1/2" or 3/8" bolts
- Includes 18" (340mm) 18/5 or 16/5 cord exiting the luminaire. When ordered with R option, 18" (340mm) 18/7 or 16/7 cord is provided
- Designed for uplight and downlight applications
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver, bronze, black, and white are available
- **Weight:** OSQ-DA: 28.9 lbs. (13.1kg); OSQ-B-AA: 28.4 lbs. (12.9kg); OSQ-M-TSP: 42 lbs. (19.1kg); OSQ-TM: 32.6 lbs. (14.8kg)

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- Designed with 0-10V dimming capabilities. Controls by others
- Refer to Dimming spec sheet for details
- **Maximum 10V Source Current:** 1.0mA
- **Operating Temperature Range:** -40°C - +40°C (-40°F - +104°F)

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Enclosure rated IP66 per IEC 60529 when ordered without R option
- Consult factory for CE Certified products
- Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards with AA, DA, TM, and TSP mounts
- ANSI C136.2 10kV surge protection, tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Meets Buy American requirements within ARRA
- DLC and DLC Premium qualified versions available. Some exceptions apply. Please refer to https://www.designlights.org/search/ for most current information
- RoHS compliant. Consult factory for additional details
- Dark Sky Friendly, IDA Approved when ordered with 30K CCT and direct or transportation mounts only. Please refer to https://www.darksky.org/our-work/lighting/lighting-for-industry/fsa/fsa-products/ for most current information
- ⚠ **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – www.p65warnings.ca.gov

Product Specifications

SYNAPSE® SIMPLYSNAP INTELLIGENT CONTROL

The Synapse SimplySNAP platform is a highly intuitive connected lighting solution featuring zone dimming, motion sensing, and daylight harvesting with utility-grade power monitoring and support of up to 1000 nodes per gateway. The system features a reliable and robust self-healing mesh network with a browser-based interface that runs on smartphones, tablets, and PCs. The Twist-Lock Lighting Controller (TL7-B2) and Site Controller (SS450-002) take the OSQ Series to a new performance plateau, providing extreme energy productivity, code compliance and a better light experience.

Electrical Data*

Input Power Designator	System Watts 120-480V	Total Current (A)					
		120V	208V	240V	277V	347V	480V
B	86	0.73	0.43	0.37	0.32	0.25	0.19
K	130	1.09	0.65	0.56	0.49	0.38	0.28
Z	53**	0.46	0.26	0.22	0.19	N/A	N/A

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V or 347-480V+/-10%
** Available with UL voltage only

OSQ Series Ambient Adjusted Lumen Maintenance[1]

Ambient	Optic	Initial LMF	25K hr Reported[2] LMF	50K hr Reported[2] LMF	75K hr Reported[2]/ Estimated[3] LMF	100K hr Reported[2]/ Estimated[3] LMF
5°C (41°F)	Asymmetric	1.04	1.03	1.01	0.99[2]	0.97[2]
	Symmetric	1.05	1.05	1.05	1.05[3]	1.05[3]
10°C (50°F)	Asymmetric	1.03	1.02	1.00	0.98[2]	0.96[2]
	Symmetric	1.04	1.03	1.03	1.03[3]	1.03[3]
15°C (59°F)	Asymmetric	1.02	1.01	0.99	0.97[2]	0.95[2]
	Symmetric	1.02	1.02	1.02	1.02[3]	1.02[3]
20°C (68°F)	Asymmetric	1.01	1.00	0.98	0.96[2]	0.94[2]
	Symmetric	1.01	1.01	1.01	1.01[3]	1.01[3]
25°C (77°F)	Asymmetric	1.00	0.99	0.97	0.95[2]	0.93[2]
	Symmetric	1.00	1.00	1.00	1.00[3]	1.00[3]

[1] Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors. Please refer to the Temperature Zone Reference Document for outdoor average nighttime ambient conditions.
[2] In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.
[3] Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED.

Accessories

Field-Installed

Backlight Shield
OSQ-BLSMF
– Front facing optics
OSQ-BLSMR
– Rotated optics

Hand-Held Remote
XA-SENSREM
- For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required

Bird Spikes
OSQ-MED-BRDSPK

Shorting Cap
XA-XSLSHRT

Synapse Wireless Control Accessories

Twist-Lock Lighting Controller
TL7-B2
- Suitable for 120-277V (UL) voltage only
- Requires NEMA/ANSI C136.41 7-Pin Dimming Receptacle
- Not for use with PML or Q options
- Provides On/Off switching, dimming, power metering, digital sensor input, and status monitoring of luminaires
- Refer to TL7-B2 spec sheet for details

SimplySNAP Central Base Station
CBSSW-450-002
- Includes On-Site Controller (SS450-002) and 5-button switch
- Indoor and Outdoor rated
- Refer to CBSSW-450-002 spec sheet for details

Synapse Wireless Sensor
WSN-DPM
- Motion and light sensor
- Control multiple zones
- Refer to WSN-DPM spec sheet for details

SimplySNAP On-Site Controller
SS450-002
- Verizon® LTE-enabled
- Designed for indoor applications
- Refer to SS450-002 spec sheet for details

Building Management System (BMS) Gateway
BMS-GW-002
- Required for BACnet integration
- Refer to BMS-GW-002 spec sheet for details

Outdoor Antennas
(Optional, for increased range, 8dB gain)
KIT-ANT420SM
- Kit includes antenna, 20' cable and bracket

KIT-ANT360
- Kit includes antenna, 30' cable and bracket

KIT-ANT600
- Kit includes antenna, 50' cable and bracket
- Refer to Outdoor antenna spec sheet for details

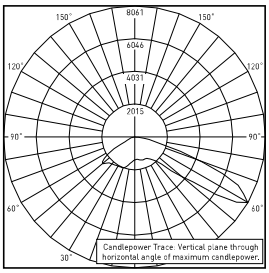
US: creelighting.com (800) 236-6800
Canada: creelighting-canada.com (800) 473-1234

CREE LIGHTING

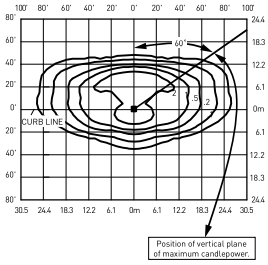
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: https://creelighting.com/products/outdoor/area/osq-series

2ME



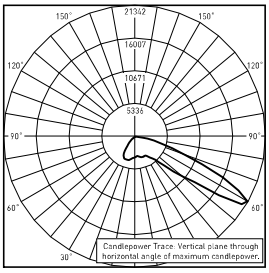
RESTL Test Report #: PL08877-001A
OSQ-A-**-2ME-B-30K-UL
Initial Delivered Lumens: 10,381



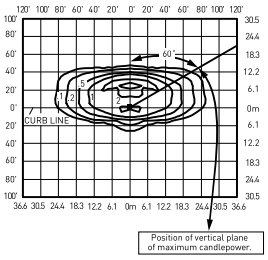
OSQ-A-**-2ME-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,424
Initial FC at grade

Type II Medium Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,738	B2 U0 G2	11,424	B2 U0 G2	9,350	B2 U0 G2	11,648	B2 U0 G2
K	16,022	B3 U0 G3	16,959	B3 U0 G3	14,000	B3 U0 G2	17,291	B3 U0 G3
Z	6,481	B2 U0 G1	6,896	B2 U0 G1	5,750	B1 U0 G1	7,031	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt



CESTL Test Report #: PL07700-001A
OSQ-A-**-2ME-U-57K-UL w/OSQ-BLSLF
Initial Delivered Lumens: 22,822



OSQ-A-**-2ME-B-40K-UL w/OSQ-BLSMF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 8,779
Initial FC at grade

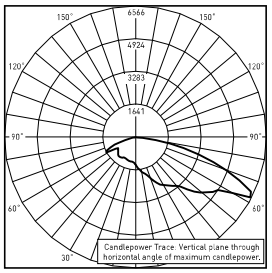
Type II Medium w/BLS Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11
B	8,251	B2 U0 G2	8,779	B2 U0 G2	7,200	B1 U0 G1	8,950	B2 U0 G2
K	12,312	B2 U0 G2	13,032	B2 U0 G2	10,750	B2 U0 G2	13,286	B2 U0 G2
Z	4,980	B1 U0 G1	5,299	B1 U0 G1	4,420	B1 U0 G1	5,402	B1 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

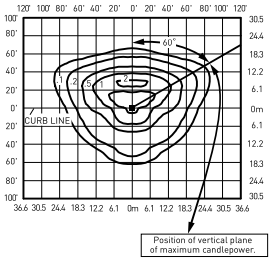
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: https://creelighting.com/products/outdoor/area/osq-series

3ME



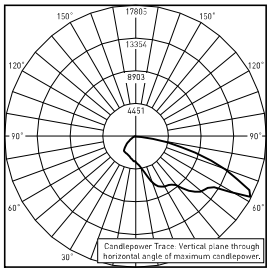
RESTL Test Report #: PL08876-001A
OSQ-A-**-3ME-B-30K-UL
Initial Delivered Lumens: 10,421



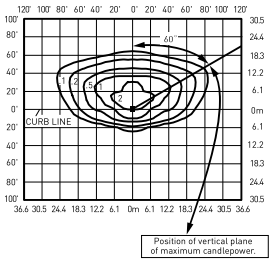
OSQ-A-**-3ME-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,424
Initial FC at grade

Type III Medium Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,738	B3 U0 G3	11,424	B3 U0 G3	9,350	B2 U0 G2	11,648	B3 U0 G3
K	16,022	B3 U0 G3	16,959	B3 U0 G3	14,000	B3 U0 G3	17,291	B3 U0 G3
Z	6,481	B2 U0 G2	6,896	B2 U0 G2	5,750	B2 U0 G2	7,031	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt



CESTL Test Report #: PL07699-001A
OSQ-A-**-3ME-U-57K-UL w/OSQ-BLSLF
Initial Delivered Lumens: 23,601



OSQ-A-**-3ME-B-40K-UL w/OSQ-BLSMF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 9,019
Initial FC at grade

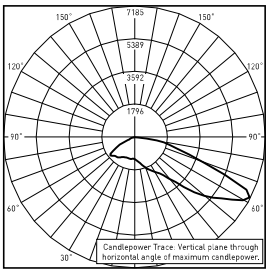
Type III Medium w/BLS Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	8,477	B1 U0 G2	9,019	B1 U0 G2	7,400	B1 U0 G2	9,196	B1 U0 G2
K	12,649	B2 U0 G2	13,389	B2 U0 G2	11,050	B2 U0 G2	13,650	B2 U0 G2
Z	5,117	B1 U0 G1	5,444	B1 U0 G1	4,540	B1 U0 G1	5,551	B1 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

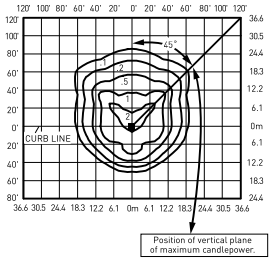
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: https://creelighting.com/products/outdoor/area/osq-series

4ME



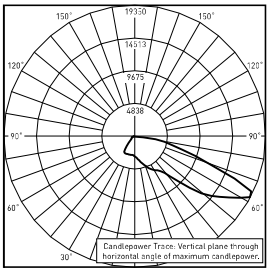
RESTL Test Report #: PL08878-001A
OSQ-A-**-4ME-B-30K-UL
Initial Delivered Lumens: 10,230



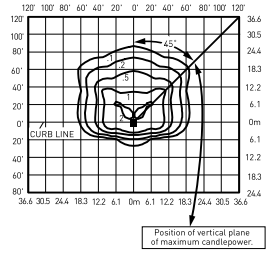
OSQ-A-**-4ME-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,424
Initial FC at grade

Type IV Medium Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,738	B2 U0 G2	11,424	B2 U0 G2	9,350	B2 U0 G2	11,648	B2 U0 G2
K	16,022	B3 U0 G3	16,959	B3 U0 G3	14,000	B3 U0 G3	17,291	B3 U0 G3
Z	6,481	B2 U0 G2	6,896	B2 U0 G2	5,750	B2 U0 G1	7,031	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt



CESTL Test Report #: PL07692-001A
OSQ-A-**-4ME-U-57K-UL w/OSQ-BLSLF
Initial Delivered Lumens: 22,793



OSQ-A-**-4ME-B-40K-UL w/OSQ-BLSMF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 8,779
Initial FC at grade

Type IV Medium w/BLS Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	8,251	B1 U0 G2	8,779	B1 U0 G2	7,200	B1 U0 G2	8,950	B1 U0 G2
K	12,312	B2 U0 G2	13,032	B2 U0 G2	10,750	B2 U0 G2	13,286	B2 U0 G2
Z	4,980	B1 U0 G1	5,299	B1 U0 G1	4,420	B1 U0 G1	5,402	B1 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

Photometry

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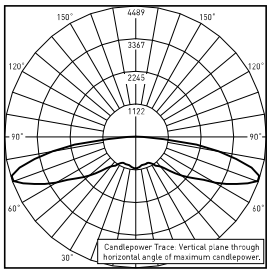
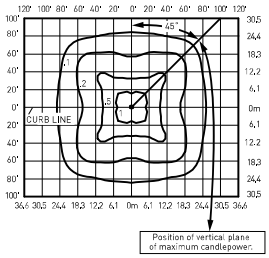
5ME



RESTL Test Report #: PL08534-001B
OSQ-A-**-5ME-B-40K-UL
Initial Delivered Lumens: 10,519



OSQ-A-**-5ME-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 10,867
Initial FC at grade

Type V Medium Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,232	B4 U0 G3	10,867	B4 U0 G3	10,000	B4 U0 G3	11,056	B4 U0 G3
K	15,063	B4 U0 G4	15,999	B4 U0 G4	14,925	B4 U0 G4	16,277	B4 U0 G4
Z	5,257	B3 U0 G3	6,086	B3 U0 G3	6,175	B3 U0 G3	6,192	B3 U0 G3

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
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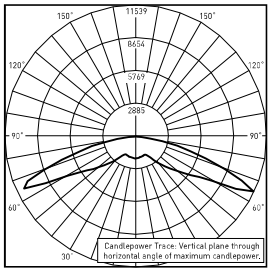
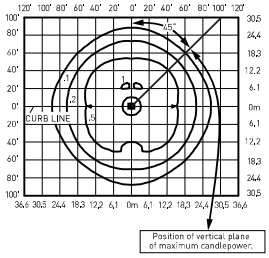
5SH



CESTL Test Report #: PL10754-001A
OSQ-A-**-5SH-U-40K-UL
Initial Delivered Lumens: 25,679



OSQ-A-**-5SH-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,478
Initial FC at grade

Type V Short Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,806	B4 U0 G2	11,478	B4 U0 G2	10,575	B4 U0 G2	11,678	B4 U0 G2
K	15,909	B4 U0 G3	16,897	B4 U0 G3	15,800	B4 U0 G3	17,191	B4 U0 G3
Z	5,552	B3 U0 G1	6,428	B3 U0 G2	6,525	B3 U0 G2	6,539	B3 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

Photometry

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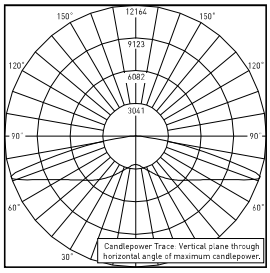
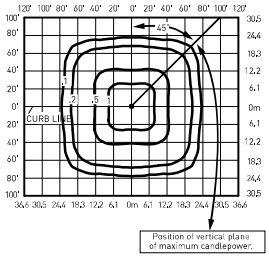
5SQ



RESTL Test Report #: PL14561-001B
OSQ-A-**-5SQ-U-57K-UL
Initial Delivered Lumens: 28,716



OSQ-A-NM-5SQ-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,478
Initial FC at grade

Type V Square Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,806	B3 U0 G2	11,478	B4 U0 G2	10,575	B3 U0 G2	11,678	B4 U0 G2
K	15,909	B4 U0 G2	16,897	B4 U0 G2	15,800	B4 U0 G2	17,191	B4 U0 G2
Z	5,552	B3 U0 G1	6,428	B3 U0 G1	6,525	B3 U0 G1	6,539	B3 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
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Photometry

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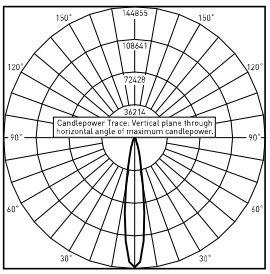
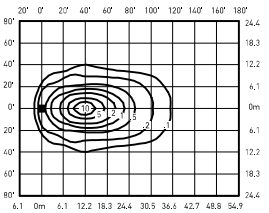
15D



CESTL Test Report #: PL07689-001A
OSQ-A-**-15D-U-30K-UL
Initial Delivered Lumens: 23,254

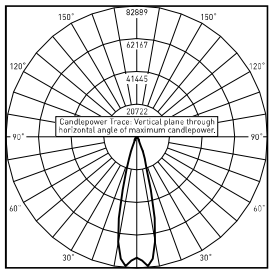


OSQ-A-**-15D-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

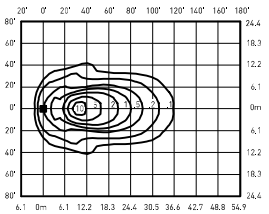
15° Flood Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

25D



CESTL Test Report #: PL07696-001A
OSQ-A-**-25D-U-30K-UL
Initial Delivered Lumens: 23,265

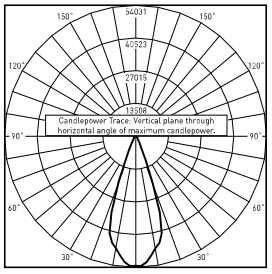


OSQ-A-**-25D-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

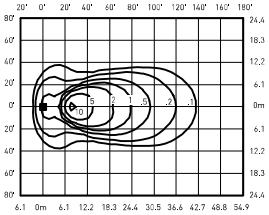
25° Flood Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

40D



CESTL Test Report #: PL07697-001A
OSQ-A-**-40D-U-30K-UL
Initial Delivered Lumens: 22,943



OSQ-A-**-40D-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

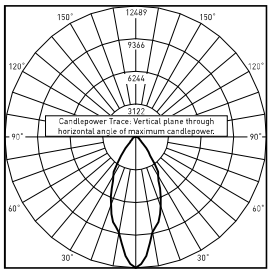
40° Flood Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

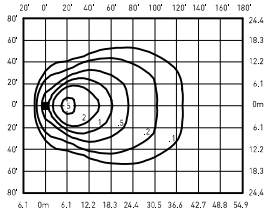
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: https://creelighting.com/products/outdoor/area/osq-series

60D



CESTL Test Report #: PL08100-001B
OSQ-A-**-60D-B-30K-UL
Initial Delivered Lumens: 10,079

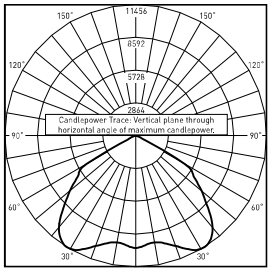


OSQ-A-**-60D-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

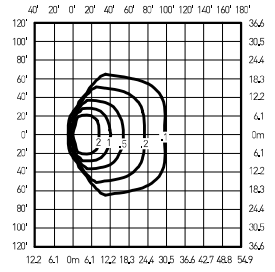
60° Flood Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

120D



RESTL Test Report #: PL15731-001A
OSQ-A-**-120D-U-40K-UL
Initial Delivered Lumens: 25,501

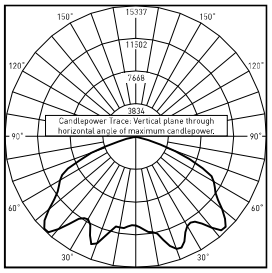


OSQ-A-**-120D-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

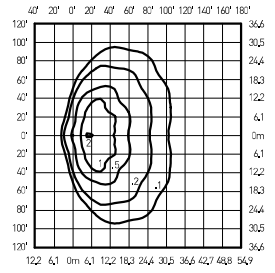
Type 120° Flood Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

WSN



CESTL Test Report #: PL07695-001A
OSQ-A-**-WSN-U-30K-UL
Initial Delivered Lumens: 23,116



OSQ-A-**-WSN-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

Wide Sign Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

Luminaire EPA

Adjustable Arm Mount – OSQ-B-AA Weight: 28.4 lbs. (12.9kg)							
Single	2 @ 180˚	2 @ 90˚	3 @ 90˚	3 @ 120˚	3 @ 180˚	4 @ 180˚	4 @ 90˚
Tenon Configuration (0˚-80˚ Tilt); If used with Cree Lighting tenons, please add tenon EPA with Luminaire EPA							
 PB-1A*; PT-1; PW-1A3**	 PB-2A*; PB-2R2.375; PD-2A4(180); PT-2(180); PW-2A3**	 PB-2A*; PD-2A4(90); PT-2(90)	 PB-3A*; PD-3A4(90); PT-3(90)	 PB-3A*; PT-3(120)	 PB-3A*; PB-3R2.375	 PB-4A*(180)	 PB-4A*(90); PB-4R2.375; PD-4A4(90); PT-4(90)
0˚ Tilt							
0.74	1.48	1.19	1.93	1.63	3.33	4.66	2.38
10˚ Tilt							
0.75	1.48	1.49	2.23	2.15	4.22	5.84	2.98
20˚ Tilt							
1.12	1.48	1.86	2.60	2.85	5.31	7.32	3.72
30˚ Tilt							
1.46	1.48	2.20	2.94	3.56	6.34	8.68	4.40
45˚ Tilt							
1.96	1.96	2.69	3.43	4.54	7.83	10.68	5.38
60˚ Tilt							
2.33	2.33	3.07	3.81	5.11	8.94	12.16	6.14
70˚ Tilt							
2.49	2.49	3.23	3.97	5.11	9.43	12.80	6.46
80˚ Tilt							
2.58	2.58	3.32	4.06	5.11	9.71	13.16	6.64
Tenon Configuration (90˚ Tilt); If used with Cree Lighting tenons, please add tenon EPA with Luminaire EPA							
PB-1A*; PT-1; PW-1A3**	PB-2A*; PB-2R2.375; PD-2A4(180); PT-2(180); PW-2A3**	PB-2A*	PB-3A*	PB-3A*; PT-3(120)	PB-3A*; PB-3R2.375	PB-4A*(180)	PB-4A*(90); PB-4R2.375
90˚ Tilt							
2.61	2.61	4.44	6.05	5.11	9.79	13.28	10.39

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation
** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")

Tenon EPA

Part Number	EPA
PB-1A*	None
PB-2A*	0.82
PB-3A*	1.52
PB-4A*(180)	2.22
PB-4A*(90)	1.11
PB-2R2.375	0.92
PB-3R2.375	1.62
PB-4R2.375	2.32
PD Series Tenons	0.09
PT Series Tenons	0.10
PW-1A3**	0.47
PW-2A3**	0.94
WM-2	0.08
WM-4	0.25
WM-DM	None

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation
** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")

Tenons and Brackets‡ (must specify color)

Square Internal Mount Vertical Tenons (Steel)
- Mounts to 3-6" (76-152mm) square aluminum or steel poles

PB-1A* – Single
PB-2A* – 180˚ Twin
PB-3A* – 180˚ Triple
PB-4A*(90) – 90˚ Quad
PB-4A*(180) – 180˚ Quad

Square Internal Mount Horizontal Tenons (Aluminum)
- Mounts to 4" (102mm) square aluminum or steel poles

PD-2A4(90) – 90˚ Twin
PD-2A4(180) – 180˚ Twin
PD-3A4(90) – 90˚ Triple
PD-4A4(90) – 90˚ Quad

Wall Mount Brackets
- Mounts to wall or roof

WM-2 – Horizontal for OSQ-B-AA mount
WM-4 – L-Shape for OSQ-B-AA mount
WM-DM – Plate for OSQ-DA mount

Round External Mount Vertical Tenons (Steel)
- Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons

PB-2R2.375 – Twin
PB-3R2.375 – Triple
PB-4R2.375 – Quad

Round External Mount Horizontal Tenons (Aluminum)
- Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons
- Mounts to square pole with PB-1A* tenon

PT-1 – Single (Vertical)
PT-2(90) – 90˚ Twin
PT-2(180) – 180˚ Twin
PT-3(90) – 90˚ Triple
PT-3(120) – 120˚ Triple
PT-4(90) – 90˚ Quad

Mid-Pole Bracket
- Mounts to square pole

PW-1A3** – Single
PW-2A3** – Double

Ground Mount Post
- For ground-mounted flood luminaires

PGM-1 - for OSQ-B-AA mount

‡ Refer to the Bracket and Tenons spec sheet for more details

Luminaire EPA

Direct Arm Mount – OSQ-DA Weight: 28.9 lbs. (13.1kg)					
Single	2 @ 180˚	2 @ 90˚	3 @ 90˚	3 @ 120˚	4 @ 90˚
					
0.74	1.48	1.19	1.93	1.63	2.38

Direct Mount Configurations

Compatibility with OSQ-DA Direct Mount Bracket					
Input Power Designator	2 @ 90˚	2 @ 180˚	3 @ 90˚	3 @ 120˚	4 @ 90˚
3" Square					
B, K & Z	N/A	✓	N/A	N/A	N/A
3" Round					
B, K & Z	N/A	✓	N/A	N/A	N/A
4" Square					
B, K & Z	✓	✓	✓	N/A	✓
4" Round					
B, K & Z	✓	✓	✓	✓	✓
5" Square					
B, K & Z	✓	✓	✓	N/A	✓
5" Round					
B, K & Z	✓	✓	✓	✓	✓
6" + Square					
B, K & Z	✓	✓	✓	N/A	✓
6" + Round					
B, K & Z	✓	✓	✓	✓	✓

Luminaire EPA

Trunnion Mount – OSQ-TM Weight: 32.6 lbs. (14.8kg)
Single
0˚ Tilt
0.75
15˚ Tilt
0.99
30˚ Tilt
1.57
45˚ Tilt
2.07
60˚ Tilt
2.46
75˚ Tilt
2.67
90˚ Tilt
2.33

Field Adjustable Output (Q9/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the OSQ area luminaires to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected Q setting and will be fully adjustable between the nine settings.

Q Option Power & Lumen Data – Designator B

Q Option Setting	CCT/CRI	System Watts	Lumen Values						Optics Qualified on DLC QPL	
		120-480V	Asymmetric	5ME	5SH, 5SQ & Floods	2ME w/ BLS	3ME w/ BLS	4ME w/BLS	Standard	Premium
Q9 (Full Power)	30K (70 CRI)	86	10,738	10,232	10,806	8,251	8,477	8,251	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		11,424	10,867	11,478	8,779	9,019	8,779	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		9,350	10,000	10,575	7,200	7,400	7,200	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		11,648	11,056	11,678	8,950	9,196	8,950	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q6	30K (70 CRI)	77	9,449	9,004	9,509	7,261	7,460	7,261	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		10,053	9,563	10,101	7,726	7,937	7,726	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		8,350	8,950	9,450	6,425	6,600	6,425	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		10,250	9,729	10,277	7,876	8,092	7,876	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q5	30K (70 CRI)	72	8,913	8,492	8,969	6,848	7,036	6,848	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		9,482	9,020	9,527	7,287	7,486	7,287	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		7,525	8,050	8,525	5,775	5,950	5,775	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		9,668	9,176	9,693	7,429	7,633	7,429	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q4	30K (70 CRI)	62	7,731	7,367	7,780	5,941	6,103	5,941	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		8,225	7,824	8,264	6,321	6,494	6,321	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		6,575	7,025	7,425	5,050	5,175	5,050	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		8,387	7,960	8,408	6,444	6,621	6,444	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q3	30K (70 CRI)	53	6,550	6,241	6,592	5,033	5,171	5,033	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		6,969	6,629	7,002	5,355	5,502	5,355	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		5,575	5,975	6,325	4,290	4,410	4,290	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		7,105	6,744	7,124	5,460	5,610	5,460	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q2	30K (70 CRI)	45	5,476	5,218	5,511	4,208	4,323	4,208	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		5,826	5,542	5,854	4,477	4,600	4,477	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		4,550	4,890	5,175	3,500	3,590	3,500	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		5,940	5,639	5,956	4,565	4,690	4,565	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q1	30K (70 CRI)	34	4,188	3,990	4,214	3,218	3,306	3,218	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		4,455	4,238	4,476	3,424	3,517	3,424	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		3,500	3,770	3,980	2,690	2,760	2,690	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		4,543	4,312	4,554	3,491	3,586	3,491	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN

Field Adjustable Output (Q9/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the OSQ area luminaires to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected Q setting and will be fully adjustable between the nine settings.

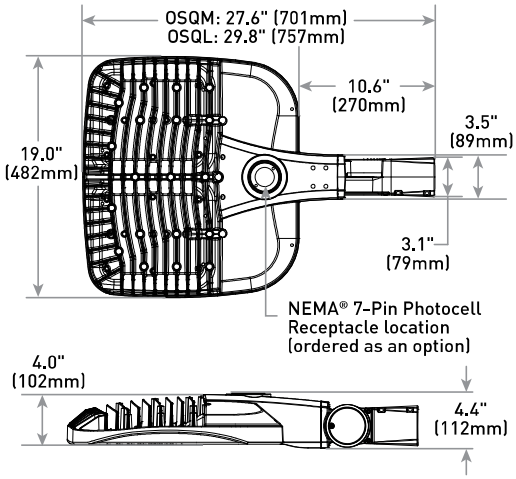
Q Option Power & Lumen Data – Designator K

Q Option Setting	CCT/CRI	System Watts	Lumen Values						Optics Qualified on DLC QPL	
		120-480V	Asymmetric	5ME	5SH, 5SQ & Floods	2ME w/BLS	3ME w/BLS	4ME w/BLS	Standard	Premium
Q9 (Full Power)	30K (70 CRI)	130	16,022	15,063	15,909	12,312	12,649	12,312	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		16,959	15,999	16,897	13,032	13,389	13,032	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		14,000	14,925	15,800	10,750	11,050	10,750	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		17,291	16,277	17,191	13,286	13,650	13,286	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q6	30K (70 CRI)	117	14,099	13,255	14,000	10,835	11,131	10,835	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		14,924	14,079	14,869	11,468	11,782	11,468	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		12,500	13,350	14,100	9,600	9,875	9,600	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		15,216	14,324	15,128	11,692	12,012	11,692	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q5	30K (70 CRI)	110	13,298	12,502	13,204	10,219	10,499	10,219	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		14,076	13,279	14,025	10,817	11,113	10,817	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		11,250	12,050	12,725	8,650	8,900	8,650	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		14,352	13,510	14,269	11,027	11,330	11,027	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q4	30K (70 CRI)	93	11,536	10,845	11,454	8,865	9,107	8,865	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		12,210	11,519	12,166	9,383	9,640	9,383	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		9,825	10,525	11,100	7,550	7,750	7,550	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		12,450	11,719	12,378	9,566	9,828	9,566	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q3	30K (70 CRI)	80	9,773	9,188	9,704	7,510	7,716	7,510	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		10,345	9,759	10,307	7,950	8,167	7,950	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		8,350	8,950	9,475	6,425	6,600	6,425	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		10,548	9,929	10,487	8,104	8,327	8,104	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q2	30K (70 CRI)	67	8,171	7,682	8,114	6,279	6,451	6,279	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		8,649	8,159	8,617	6,646	6,828	6,646	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		6,825	7,325	7,725	5,250	5,375	5,250	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		8,818	8,301	8,767	6,776	6,962	6,776	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q1	30K (70 CRI)	51	6,249	5,875	6,205	4,802	4,933	4,802	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		6,614	6,240	6,590	5,082	5,222	5,082	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		5,250	5,650	5,975	4,030	4,150	4,030	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		6,743	6,348	6,704	5,182	5,324	5,182	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN

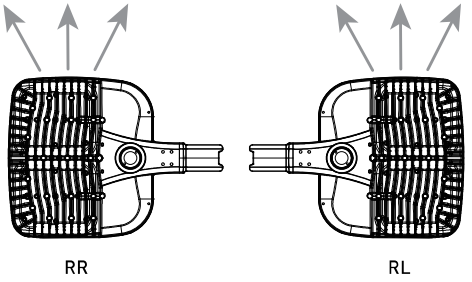
AA Mount



Weight
28.4 lbs. (12.9kg)



RR/RL Configuration

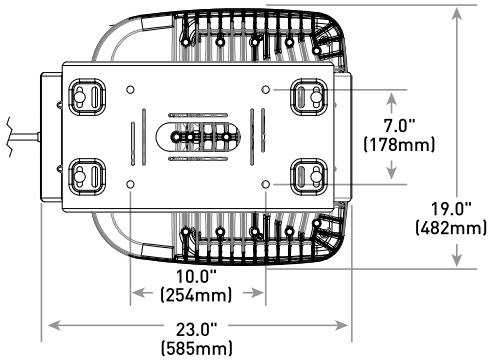


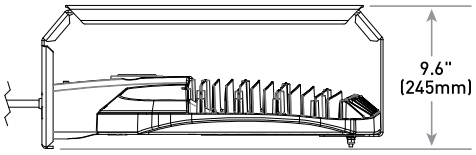
TSP Mount



Weight
42.0 lbs. (19.1kg)

OSQ Large luminaire shown.



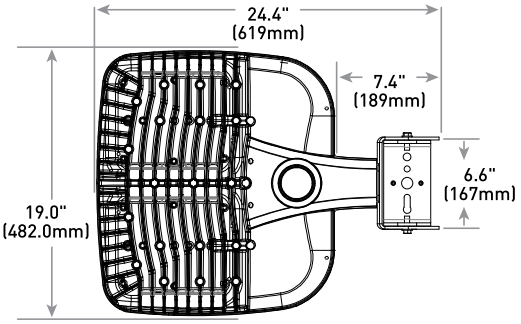


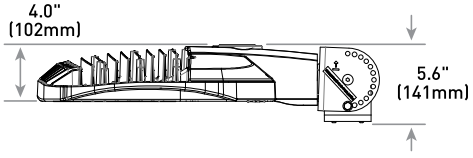
TM Mount



Weight
32.6 lbs. (14.8kg)

OSQ Large luminaire shown.





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US: creelighting.com (800) 236-6800
Canada: creelighting-canada.com (800) 473-1234

CREE LIGHTING
A COMPANY OF *IDEAL INDUSTRIES, INC.*

Catalog #: CRUS-SC-LED-HO-50 Project: _____

Prepared By: _____ Date: _____ Type: F

Scottsdale® Legacy (CRUS)

LED Canopy Luminaire

MANUFACTURED IN THE USA | c UL us LISTED | DLC QPL LISTED | IDA DARK SKY APPROVED | IP66



OVERVIEW	
Lumen Package	5,000 - 22,000
Wattage Range	38 - 152
Efficacy Range (LPW)	114 -156
Weight lbs(kg)	23 (10.4)

QUICK LINKS

Ordering Guide | Performance | Photometrics | Dimensions

FEATURES & SPECIFICATIONS

Construction

- Features a ultra-slim 11/16" profile die-cast housing, with flat clear tempered glass lens. Unit is water-resistant, sealed and IP66 rated. Integral designed heat sink does not trap dirt and grime, ensuring cool running performance over the life of the fixture.
- Standard color is white and is finished with LSI's DuraGrip® polyester powder coat process. DuraGrip withstands extreme weather changes without cracking or peeling.
- Luminaire assembly incorporates a pressure stabilizing vent breather to prevent seal fatigue and failure.

Optical System

- Features an array of select, mid-power, high brightness, high efficiency LED; 3000K, 4000K, 5000K color temperature, 80 CRI (nominal).
- Choice of Symmetric or Asymmetric distribution. Asymmetric provides a wider distribution pattern.
- Six Lumen Packages: 5,000, 9,000, 10,000, 13,000, 18,000 and 22,000 Lumens.

Electrical

- High performance factory programmable driver features over-voltage, under voltage, short-circuit and over temperature protection with integral 6kV surge protection that meets IEEE C62.41.2 and ANSI C82.77-5 Location Category C Low standards. Custom lumen and wattage packages available.
- Additional field replaceable 10kV surge protection device that meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2) is standard.
- Driver components are fully encased in potting for moisture resistance. Complies with IEC and FCC standards. 0-10 V dimming supplied standard with all drive currents.
- Die-cast aluminum, wet location rated driver/electrical enclosure is elevated above canopy deck to prevent water entry, provide easy "knock-out" connection of primary wiring and acts as the primary heatsink ensuring cool operation of internal components for longer life. Seals to optical housing via one-piece molded silicone gasket.
- Universal voltage power supply, 120-277 VAC, 50/60 HZ and 347-480 VAC, 50/60 HZ input.
- -40°C to 55°C (-40°F to 131°F) ambient operating temperature. (Varies based on lumen package and mounting style see performance data for specifics.)
- Minimum 60,000 to 100,000 hours depending upon the ambient temperature of the installation location (see performance data for specifics.)

Hazardous Location

- Designed for lighter than air fuel applications. Product is suitable for Class 1 Divisions 2 only when properly installed per LSI installation instructions. See lsicorp.com for specific guidance. Not available on SLW.

Installation

- One-person installation.
- Installs in a 12" or 16" deck pan. Deck penetration consists of a 4" hole, simplifying installation and water sealing. Unit is designed to quickly retrofit into existing Scottsdale (4") hole as well as openings for Encore and Encore Top Access and to reconnect wiring for the SC/ECTA without having to relocate the conduit.
- Retro panels are available for existing Encores as well as kits for recessed and 2x2 installations (see separate spec sheets). Support brackets are provided standard, to prevent sagging of deck.

Warranty

- LSI LED fixtures carry a 5-year warranty (contact your LSI representative for extended warranty options.)

Listings

- UL and ETL listed to UL 1598, UL 8750 and other U.S. and International safety standards. Suitable for wet locations.
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.
- Meets Buy American Act requirements.
- IDA compliant with 3000K or lower color temperature.

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Type: _____

Scottsdale® Legacy LED Canopy Luminaire (CRUS)

ORDERING GUIDE

Back to Quick Links

TYPICAL ORDER EXAMPLE: **CRUS SC LED SS 50 UE WHT**

Prefix	Distribution	Light Source	Drive Current	Color Temp	Input Voltage	Finish	Options
CRUS - LED Canopy Luminaire	**SC** - Symmetric **AC**[1] - Asymmetric	**LED**	**SLW** - Super Low Watt **VLW** - Very Low Watt **LW** - Low Watt **SS** - Super Saver **HO** - High Output **VHO** - Very High Output **Custom Lumen Packages**[3]	**50** - 5,000K **40** - 4,000K **30** - 3,000K	**UE** - Universal Voltage (120 - 277V) **HV** - High Voltage 347 - 480V	**WHT** - White **BRZ** - Bronze **BLK** - Black	**HL**[2] - Hazardous Location

FOOTNOTES:
1. AC distribution utilizes a reflector which alters the look from a standard SC distribution.
2. Not available on SLW.
3. Custom lumen and wattage packages available consult factory. Values are within industry standard tolerances but not DLC listed.

Accessory Ordering Information (Accessories are field installed)

Description	Order Number
Retrofit Panels - EC / ECTA / SCF to CRUS, for 16" Deck Panel	525946
Retrofit Panels - ECTA / SCF to CRUS, for 12" Deck Panel	530281
Retrofit 2x2 Cover Panel Blank (no holes)	357282

Description	Order Number
Retrofit RIC Cover Panel Blank (no holes)	354702
Kit - Hole Plugs and Silicone (enough for 25 retrofits)[1]	1320540

1 - Consists of (25) 7/8" hole plugs, (100) 5/16" hole plugs and (1) tube of RTV

PERFORMANCE

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DELIVERED LUMENS

Lumen Package	Distribution	3000K CCT			4000K CCT			5000K CCT			Wattage
		Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	
VHO	SC	21301	140	B4-U0-G2	21835	144	B4-U0-G2	22697	150	B4-U0-G2	152
	AC	17355	114	B3-U0-G3	17799	117	B3-U0-G3	18502	122	B3-U0-G3	
HO	SC	17889	143	B3-U0-G1	18346	146	B3-U0-G2	19071	152	B4-U0-G2	125
	AC	14582	116	B3-U0-G2	14955	119	B3-U0-G2	15546	124	B3-U0-G2	
SS	SC	13113	141	B3-U0-G1	13449	144	B3-U0-G1	13980	150	B3-U0-G1	93
	AC	11468	123	B3-U0-G2	11761	126	B3-U0-G2	12226	131	B3-U0-G2	
LW	SC	10457	144	B3-U0-G1	10724	148	B3-U0-G1	11148	154	B3-U0-G1	73
	AC	9145	126	B2-U0-G2	9379	129	B2-U0-G2	9749	134	B2-U0-G2	
VLW	SC	8783	146	B3-U0-G1	9008	149	B3-U0-G1	9364	155	B3-U0-G1	60
	AC	7681	127	B2-U0-G1	7878	131	B2-U0-G1	8189	136	B2-U0-G1	
SLW	SC	5585	146	B2-U0-G1	5728	150	B2-U0-G1	5954	156	B2-U0-G1	38
	AC	4884	128	B1-U0-G1	5009	131	B1-U0-G1	5207	136	B1-U0-G1	

*LEDs are frequently updated therefore values are nominal.

ELECTRICAL DATA (AMPS)

Lumen Package	Wattage	120V	208V	240V	277V	347V	480V
VHO	152	1.27	0.73	0.64	0.55	0.44	0.32
HO	124	1.03	0.6	0.52	0.45	0.36	0.26
SS	92	0.77	0.44	0.38	0.33	0.27	0.19
LW	72	0.6	0.35	0.3	0.26	0.21	0.15
VLW	60	0.5	0.29	0.25	0.22	0.17	0.13
SLW	38	0.32	0.18	0.16	0.14	0.11	0.08

*Electrical data at 25C (77F). Actual wattage may differ by +/-10%.

OPERATING TEMPERATURE

LUMEN PACKAGE	MOUNTING	Max
VHO	Metal/Wood Canopy	45 C
HO	Metal/Wood Canopy	45 C
SS	Metal/Wood Canopy	55 C

Recommended Lumen Maintenance[1] CRUS VHO

Ambient Temp C	Initial [2]	25k hr [2]	50k hr [2]	75k hr [3]	100k hr [3]
0 C	102%	97%	92%	88%	84%
10 C	102%	97%	92%	88%	84%
20 C	102%	97%	92%	88%	84%
25 C	102%	97%	92%	88%	84%
30 C	102%	97%	92%	88%	84%
40 C	101%	95%	90%	85%	80%
50 C	101%	94%	89%	83%	78%

Recommended Lumen Maintenance[1] CRUS SS

Ambient Temp C	Initial [2]	25k hr [2]	50k hr [2]	75k hr [3]	100k hr [3]
0 C	102%	97%	92%	88%	84%
10 C	102%	97%	92%	88%	84%
20 C	102%	97%	92%	88%	84%
25 C	102%	97%	92%	88%	84%
30 C	102%	97%	92%	88%	84%
40 C	102%	97%	92%	88%	84%
50 C	101%	95%	91%	86%	82%

FOOTNOTES:
1 - Lumen maintenance values at 25˚C are calculated per TM-21 based on LM-80 data and in-situ luminaire testing.
2 - In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED).
3 - In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times NA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED).

Type: _____

Scottsdale® Legacy LED Canopy Luminaire (CRUS)

PHOTOMETRICS

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Luminaire photometry has been conducted by an accredited testing laboratory in accordance with IESNA LM-79-08. As specified by IESNA LM-79-08 the entire luminaire is tested as the source resulting in a luminaire efficiency of 100%.

See http://www.lsi-industries.com/products/led-lighting-solutions.aspx for detailed photometric data.

CRUS-SC-SS-50

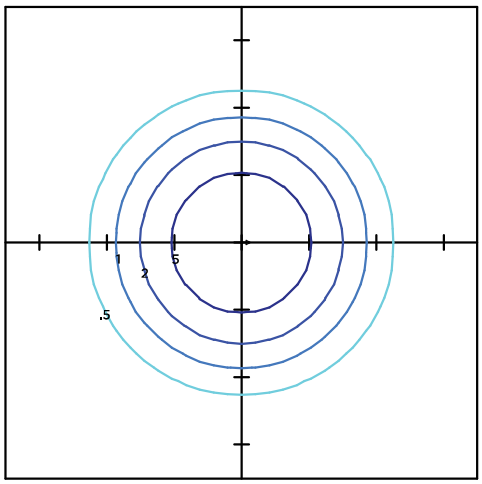
LUMINAIRE DATA

Type 5 Distribution	
Description	5000 Kelvin, 80 CRI
Delivered Lumens	13,980
Watts	93
Efficacy	150
IES Type	Type VS - Very Short
BUG Rating	B3-U0-G1

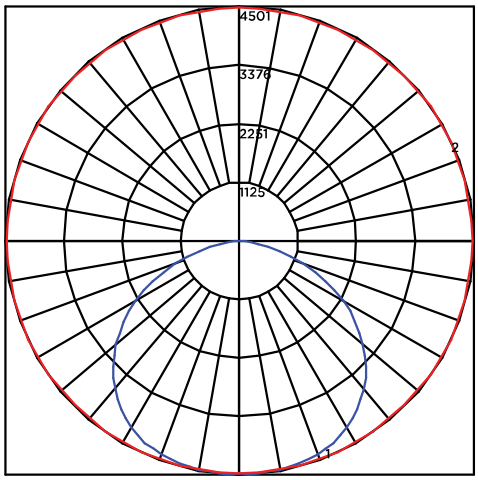
Zonal Lumen Summary

Zone	Lumens	%Luminaire
Low (0-30°)	3654.2	26%
Medium (30-60°)	7541.2	54%
High (60-80°)	2641.4	19%
Very High (80-90°)	143.2	1%
Uplight (90-180°)	0	0%
Total Flux	13980	100%

ISO FOOTCANDLE



POLAR CURVE



15' Mounting Height/15' Grid Spacing

5 FC **2 FC** **1 FC** **.5 FC**

CRUS-SC-SS-50

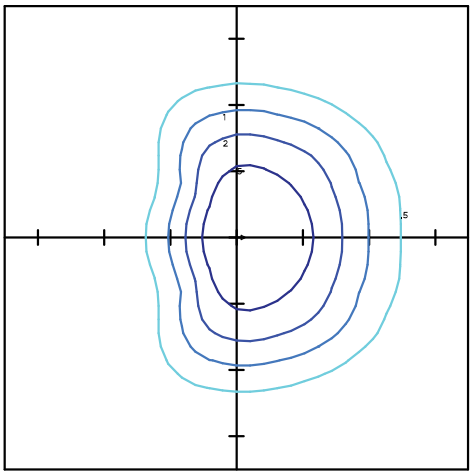
LUMINAIRE DATA

Type 3 Distribution	
Description	5000 Kelvin, 80 CRI
Delivered Lumens	12,226
Watts	93
Efficacy	131
IES Type	Type III, Very Short
BUG Rating	B3-U0-G2

Zonal Lumen Summary

Zone	Lumens	%Luminaire
Low (0-30°)	3240.3	27%
Medium (30-60°)	6245.5	51%
High (60-80°)	2594.6	21%
Very High (80-90°)	146.1	1%
Uplight (90-180°)	0	0%
Total Flux	12227	100%

ISO FOOTCANDLE



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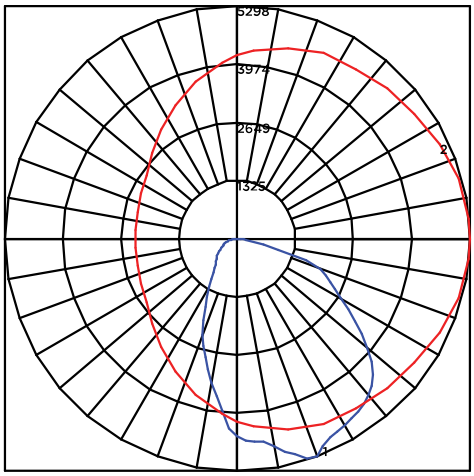

15' Mounting Height/15' Grid Spacing

5 FC **2 FC** **1 FC** **.5 FC**

Scottsdale® Legacy LED Canopy Luminaire (CRUS)

PRODUCT DIMENSIONS

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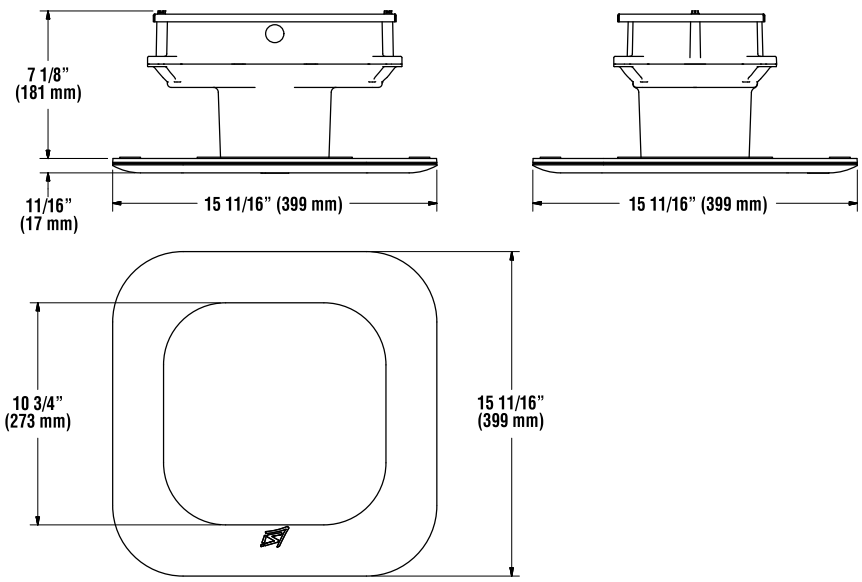


OSQ Series

OSQ™ LED Area/Flood Luminaire featuring Cree TrueWhite® Technology – Medium

Rev. Date: V27 10/21/2020

Product Description

The OSQ™ Area/Flood luminaire blends extreme optical control, advanced thermal management and modern, clean aesthetics. Built to last, the housing is rugged cast aluminum with an integral, weathertight LED driver compartment. Versatile mounting configurations offer simple installation. Its slim, low-profile design minimizes wind load requirements and blends seamlessly into the site providing even, quality illumination. The 'B' Input power designator is a suitable upgrade for HID applications up to 250 Watt, and the 'K' Input power designator is a suitable upgrade for HID applications up to 400 Watt.

Applications: Parking lots, walkways, campuses, car dealerships, office complexes, tunnels, underpasses, and internal roadways

Performance Summary

Utilizes Cree TrueWhite® Technology on 5000K Luminaires

NanoOptic® Precision Delivery Grid™ optic

Assembled in the U.S.A. of U.S. and imported parts

Initial Delivered Lumens: Up to 17,291

Efficacy: Up to 136 LPW

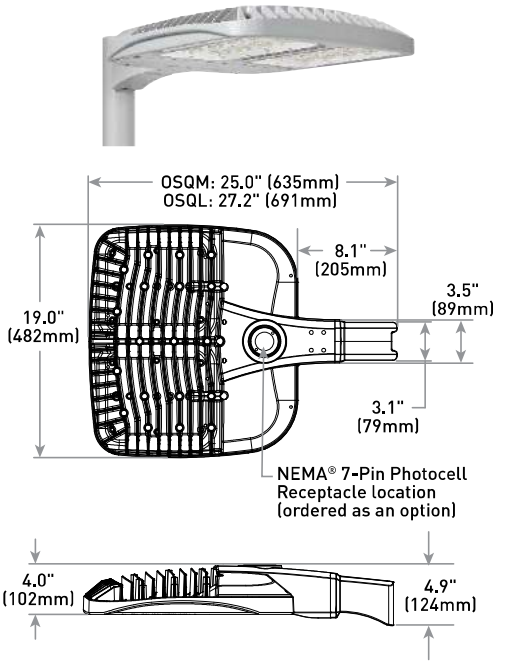
CRI: Minimum 70 CRI (3000K, 4000K & 5700K); 90 CRI (5000K)

CCT: 3000K, 4000K, 5000K, 5700K

Limited Warranty†: 10 years on luminaire; 10 years on Colorfast DeltaGuard® finish; up to 5 years for Synapse® accessories; 1 year on luminaire accessories

† See http://creelighting.com/warranty for warranty terms. For Synapse accessories, consult Synapse spec sheets for details on warranty terms.

DA Mount



Weight
28.9 lbs. (13.1kg)

Ordering Information

Fully assembled luminaire is composed of two components that must be ordered separately:
Example: **Mount:** OSQ-B-AASV + **Luminaire:** OSQ-A-NM-2ME-B-40K-UL-SV

Mount (Luminaire must be ordered separately)*	
OSQ-	
OSQ-B-AA Adjustable Arm **OSQ-DA** Direct Arm **OSQ-M-TSP** Transportation Mount (stainless steel; do not specify color) **OSQ-TM** Trunnion Mount	**Color Options:** **SV** Silver **BZ** Bronze **BK** Black **WH** White

* Reference EPA and pole configuration suitability data beginning on page 10

Luminaire (Mount must be ordered separately)

OSQ	A	NM						
Product	**Version**	**Mounting**	**Optic**	**Input Power Designator**	**CCT**	**Voltage**	**Color Options**	**Options**
OSQ	**A**	**NM** No Mount	**Asymmetric** **2ME*** Type II Medium **4ME*** Type IV Medium **3ME*** Type III Medium **Symmetric** **5ME** Type V Medium **5SH** Type V Short **5SQ** Type V Square **WSN** Wide Sign **15D** 15° Flood **25D** 25° Flood **40D** 40° Flood **60D** 60° Flood **120D** 120° Flood	**B** 86W **K** 130W **Z** 53W	**30K** 3000K, 70 CRI **40K** 4000K, 70 CRI **50K** 5000K, 90 CRI **57K** 5700K, 70 CRI	**UL** Universal 120-277V **UH** Universal 347-480V - Available with B & K Input Power Designators only	**BK** Black **BZ** Bronze **SV** Silver **WH** White	**F Fuse** - Compatible only with 120V, 277V or 347V (phase to neutral) - Consult factory if fusing is required for 208V, 240V or 480V (phase to phase) - Refer to PML spec sheet for availability with PML options - When code dictates fusing, use time delay fuse **PML Programmable Multi-Level, up to 40' Mounting Height** - Refer to PML spec sheet for details - Intended for downlight applications at 0° tilt **PML2 Programmable Multi-Level, 10-30' Mounting Height** - Refer to PML spec sheet for details - Intended for downlight applications at 0° tilt **Q9/Q6/Q5/Q4/Q3/Q2/Q1 Field Adjustable Output** - Must select Q9, Q6, Q5, Q4, Q3, Q2, or Q1 - Offers full range adjustability - Refer to pages 12-13 for power and lumen values - Available with B & K Input Power Designators only - Not available with PML or PML2 options **R NEMA® 7-Pin Photocell Receptacle** - 7-pin receptacle per ANSI C136.41 - Intended for downlight applications with maximum 45° tilt - Factory connected 0-10V dim leads - 18" (457mm) seven-conductor cord exits luminaire - Requires photocell or shorting cap by others **RL Rotate Left** - LED and optic are rotated to the left - Refer to RR/RL configuration diagram on page 14 for optic directionality - Not for use with symmetric optics **RR Rotate Right** - LED and optic are rotated to the right - Refer to RR/RL configuration diagram on page 14 for optic directionality - Not for use with symmetric optics

* Available with Backlight Shield when ordered with field-installed accessory (see table above)

US: creelighting.com (800) 236-6800
Canada: creelighting-canada.com (800) 473-1234

Product Specifications

CREE TRUEWHITE® TECHNOLOGY

A revolutionary way to generate high-quality white light, Cree TrueWhite® Technology is a patented approach that delivers an exclusive combination of 90+ CRI, beautiful light characteristics and lifelong color consistency, all while maintaining high luminous efficacy – a true no compromise solution.

CONSTRUCTION & MATERIALS

- Slim, low profile design minimizes wind load requirements
- Luminaire housing is rugged die cast aluminum with an integral, weathertight LED driver compartment and high-performance heat sink
- Convenient interlocking mounting method on direct arm mount. Mounting adaptor is rugged die cast aluminum and mounts to 3" (76mm) or larger square or round pole, secured by two 5/16-18 UNC bolts spaced on 2" (51mm) centers
- Mounting for the adjustable arm mount adaptor is rugged die cast aluminum and mounts to 2" (51mm) IP, 2.375" (60mm) O.D. tenon
- Adjustable arm mount can be adjusted 180° in 2.5° increments
- Transportation mount is constructed of 316 stainless steel and mounts to surface with (4) 3/8" fasteners by others
- Trunnion mount is constructed of A500 and A1011 steel and is adjustable from 0-180° in 15° degree increments. Trunnion mount secures to surface with (1) 3/4" bolt or (2) 1/2" or 3/8" bolts
- Includes 18" (340mm) 18/5 or 16/5 cord exiting the luminaire. When ordered with R option, 18" (340mm) 18/7 or 16/7 cord is provided
- Designed for uplight and downlight applications
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver, bronze, black, and white are available
- **Weight:** OSQ-DA: 28.9 lbs. (13.1kg); OSQ-B-AA: 28.4 lbs. (12.9kg); OSQ-M-TSP: 42 lbs. (19.1kg); OSQ-TM: 32.6 lbs. (14.8kg)

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- Designed with 0-10V dimming capabilities. Controls by others
- Refer to Dimming spec sheet for details
- **Maximum 10V Source Current:** 1.0mA
- **Operating Temperature Range:** -40°C - +40°C (-40°F - +104°F)

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Enclosure rated IP66 per IEC 60529 when ordered without R option
- Consult factory for CE Certified products
- Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards with AA, DA, TM, and TSP mounts
- ANSI C136.2 10kV surge protection, tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Meets Buy American requirements within ARRA
- DLC and DLC Premium qualified versions available. Some exceptions apply. Please refer to https://www.designlights.org/search/ for most current information
- RoHS compliant. Consult factory for additional details
- Dark Sky Friendly, IDA Approved when ordered with 30K CCT and direct or transportation mounts only. Please refer to https://www.darksky.org/our-work/lighting/lighting-for-industry/fsa/fsa-products/ for most current information
- ⚠ **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – www.p65warnings.ca.gov

Product Specifications

SYNAPSE® SIMPLYSNAP INTELLIGENT CONTROL

The Synapse SimplySNAP platform is a highly intuitive connected lighting solution featuring zone dimming, motion sensing, and daylight harvesting with utility-grade power monitoring and support of up to 1000 nodes per gateway. The system features a reliable and robust self-healing mesh network with a browser-based interface that runs on smartphones, tablets, and PCs. The Twist-Lock Lighting Controller (TL7-B2) and Site Controller (SS450-002) take the OSQ Series to a new performance plateau, providing extreme energy productivity, code compliance and a better light experience.

Electrical Data*

Input Power Designator	System Watts 120-480V	Total Current (A)					
		120V	208V	240V	277V	347V	480V
B	86	0.73	0.43	0.37	0.32	0.25	0.19
K	130	1.09	0.65	0.56	0.49	0.38	0.28
Z	53**	0.46	0.26	0.22	0.19	N/A	N/A

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V or 347-480V+/-10%
** Available with UL voltage only

OSQ Series Ambient Adjusted Lumen Maintenance[1]

Ambient	Optic	Initial LMF	25K hr Reported[2] LMF	50K hr Reported[2] LMF	75K hr Reported[2]/ Estimated[3] LMF	100K hr Reported[2]/ Estimated[3] LMF
5°C (41°F)	Asymmetric	1.04	1.03	1.01	0.99[2]	0.97[2]
	Symmetric	1.05	1.05	1.05	1.05[3]	1.05[3]
10°C (50°F)	Asymmetric	1.03	1.02	1.00	0.98[2]	0.96[2]
	Symmetric	1.04	1.03	1.03	1.03[3]	1.03[3]
15°C (59°F)	Asymmetric	1.02	1.01	0.99	0.97[2]	0.95[2]
	Symmetric	1.02	1.02	1.02	1.02[3]	1.02[3]
20°C (68°F)	Asymmetric	1.01	1.00	0.98	0.96[2]	0.94[2]
	Symmetric	1.01	1.01	1.01	1.01[3]	1.01[3]
25°C (77°F)	Asymmetric	1.00	0.99	0.97	0.95[2]	0.93[2]
	Symmetric	1.00	1.00	1.00	1.00[3]	1.00[3]

[1] Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors. Please refer to the Temperature Zone Reference Document for outdoor average nighttime ambient conditions.
[2] In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.
[3] Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED.

Accessories

Field-Installed

Backlight Shield
OSQ-BLSMF
– Front facing optics
OSQ-BLSMR
– Rotated optics

Hand-Held Remote
XA-SENSREM
- For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required

Bird Spikes
OSQ-MED-BRDSPK

Shorting Cap
XA-XSLSHRT

Synapse Wireless Control Accessories

Twist-Lock Lighting Controller
TL7-B2
- Suitable for 120-277V (UL) voltage only
- Requires NEMA/ANSI C136.41 7-Pin Dimming Receptacle
- Not for use with PML or Q options
- Provides On/Off switching, dimming, power metering, digital sensor input, and status monitoring of luminaires
- Refer to TL7-B2 spec sheet for details

SimplySNAP Central Base Station
CBSSW-450-002
- Includes On-Site Controller (SS450-002) and 5-button switch
- Indoor and Outdoor rated
- Refer to CBSSW-450-002 spec sheet for details

Synapse Wireless Sensor
WSN-DPM
- Motion and light sensor
- Control multiple zones
- Refer to WSN-DPM spec sheet for details

SimplySNAP On-Site Controller
SS450-002
- Verizon® LTE-enabled
- Designed for indoor applications
- Refer to SS450-002 spec sheet for details

Building Management System (BMS) Gateway
BMS-GW-002
- Required for BACnet integration
- Refer to BMS-GW-002 spec sheet for details

Outdoor Antennas
(Optional, for increased range, 8dB gain)
KIT-ANT420SM
- Kit includes antenna, 20' cable and bracket

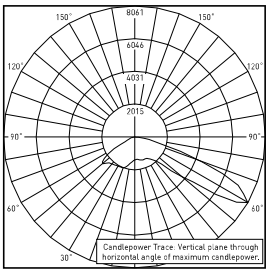
KIT-ANT360
- Kit includes antenna, 30' cable and bracket

KIT-ANT600
- Kit includes antenna, 50' cable and bracket
- Refer to Outdoor antenna spec sheet for details

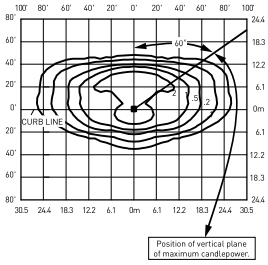
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: https://creelighting.com/products/outdoor/area/osq-series

2ME



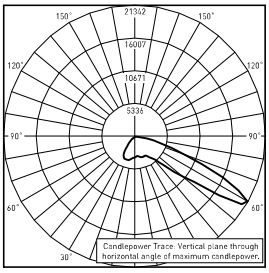
RESTL Test Report #: PL08877-001A
OSQ-A-**-2ME-B-30K-UL
Initial Delivered Lumens: 10,381



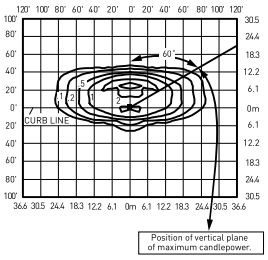
OSQ-A-**-2ME-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,424
Initial FC at grade

Type II Medium Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,738	B2 U0 G2	11,424	B2 U0 G2	9,350	B2 U0 G2	11,648	B2 U0 G2
K	16,022	B3 U0 G3	16,959	B3 U0 G3	14,000	B3 U0 G2	17,291	B3 U0 G3
Z	6,481	B2 U0 G1	6,896	B2 U0 G1	5,750	B1 U0 G1	7,031	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt



CESTL Test Report #: PL07700-001A
OSQ-A-**-2ME-U-57K-UL w/OSQ-BLSLF
Initial Delivered Lumens: 22,822



OSQ-A-**-2ME-B-40K-UL w/OSQ-BLSMF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 8,779
Initial FC at grade

Type II Medium w/BLS Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11
B	8,251	B2 U0 G2	8,779	B2 U0 G2	7,200	B1 U0 G1	8,950	B2 U0 G2
K	12,312	B2 U0 G2	13,032	B2 U0 G2	10,750	B2 U0 G2	13,286	B2 U0 G2
Z	4,980	B1 U0 G1	5,299	B1 U0 G1	4,420	B1 U0 G1	5,402	B1 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
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Photometry

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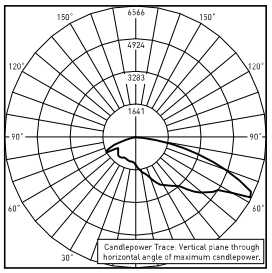
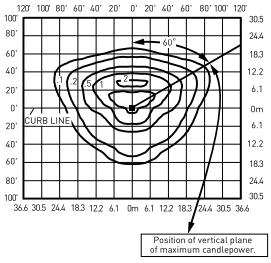
3ME



RESTL Test Report #: PL08876-001A
OSQ-A-**-3ME-B-30K-UL
Initial Delivered Lumens: 10,421



OSQ-A-**-3ME-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,424
Initial FC at grade

Type III Medium Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,738	B3 U0 G3	11,424	B3 U0 G3	9,350	B2 U0 G2	11,648	B3 U0 G3
K	16,022	B3 U0 G3	16,959	B3 U0 G3	14,000	B3 U0 G3	17,291	B3 U0 G3
Z	6,481	B2 U0 G2	6,896	B2 U0 G2	5,750	B2 U0 G2	7,031	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
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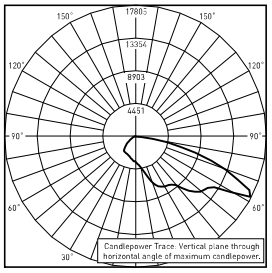
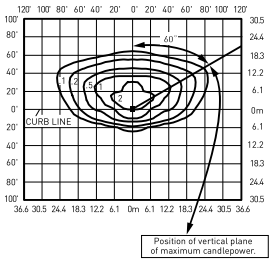


CESTL Test Report #: PL07699-001A
OSQ-A-**-3ME-U-57K-UL w/OSQ-BLSLF
Initial Delivered Lumens: 23,601



OSQ-A-**-3ME-B-40K-UL w/OSQ-BLSMF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 9,019
Initial FC at grade

Type III Medium w/BLS Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	8,477	B1 U0 G2	9,019	B1 U0 G2	7,400	B1 U0 G2	9,196	B1 U0 G2
K	12,649	B2 U0 G2	13,389	B2 U0 G2	11,050	B2 U0 G2	13,650	B2 U0 G2
Z	5,117	B1 U0 G1	5,444	B1 U0 G1	4,540	B1 U0 G1	5,551	B1 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
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Photometry

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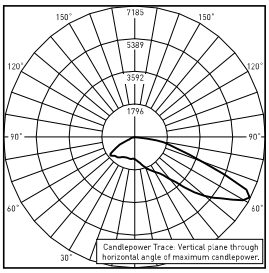
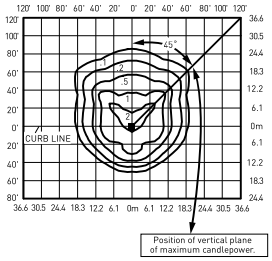
4ME



RESTL Test Report #: PL08878-001A
OSQ-A-**-4ME-B-30K-UL
Initial Delivered Lumens: 10,230



OSQ-A-**-4ME-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,424
Initial FC at grade

Type IV Medium Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,738	B2 U0 G2	11,424	B2 U0 G2	9,350	B2 U0 G2	11,648	B2 U0 G2
K	16,022	B3 U0 G3	16,959	B3 U0 G3	14,000	B3 U0 G3	17,291	B3 U0 G3
Z	6,481	B2 U0 G2	6,896	B2 U0 G2	5,750	B2 U0 G1	7,031	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
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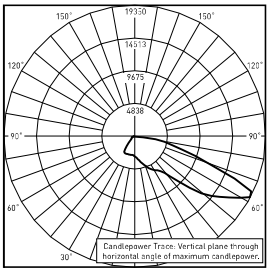
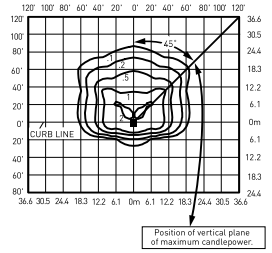


CESTL Test Report #: PL07692-001A
OSQ-A-**-4ME-U-57K-UL w/OSQ-BLSLF
Initial Delivered Lumens: 22,793



OSQ-A-**-4ME-B-40K-UL w/OSQ-BLSMF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 8,779
Initial FC at grade

Type IV Medium w/BLS Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	8,251	B1 U0 G2	8,779	B1 U0 G2	7,200	B1 U0 G2	8,950	B1 U0 G2
K	12,312	B2 U0 G2	13,032	B2 U0 G2	10,750	B2 U0 G2	13,286	B2 U0 G2
Z	4,980	B1 U0 G1	5,299	B1 U0 G1	4,420	B1 U0 G1	5,402	B1 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

Photometry

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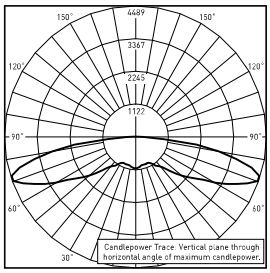
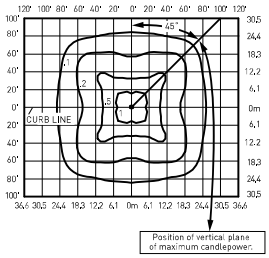
5ME



RESTL Test Report #: PL08534-001B
OSQ-A-**-5ME-B-40K-UL
Initial Delivered Lumens: 10,519



OSQ-A-**-5ME-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 10,867
Initial FC at grade

Type V Medium Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,232	B4 U0 G3	10,867	B4 U0 G3	10,000	B4 U0 G3	11,056	B4 U0 G3
K	15,063	B4 U0 G4	15,999	B4 U0 G4	14,925	B4 U0 G4	16,277	B4 U0 G4
Z	5,257	B3 U0 G3	6,086	B3 U0 G3	6,175	B3 U0 G3	6,192	B3 U0 G3

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
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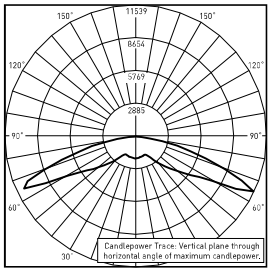
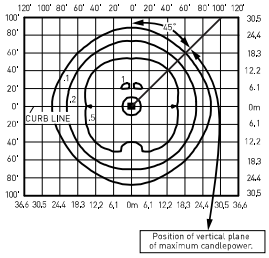
5SH



CESTL Test Report #: PL10754-001A
OSQ-A-**-5SH-U-40K-UL
Initial Delivered Lumens: 25,679



OSQ-A-**-5SH-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,478
Initial FC at grade

Type V Short Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,806	B4 U0 G2	11,478	B4 U0 G2	10,575	B4 U0 G2	11,678	B4 U0 G2
K	15,909	B4 U0 G3	16,897	B4 U0 G3	15,800	B4 U0 G3	17,191	B4 U0 G3
Z	5,552	B3 U0 G1	6,428	B3 U0 G2	6,525	B3 U0 G2	6,539	B3 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

Photometry

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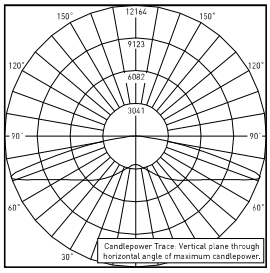
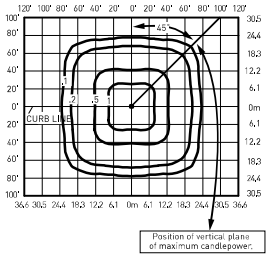
5SQ



RESTL Test Report #: PL14561-001B
OSQ-A-**-5SQ-U-57K-UL
Initial Delivered Lumens: 28,716



OSQ-A-NM-5SQ-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,478
Initial FC at grade

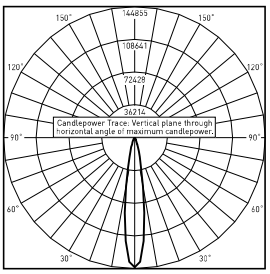
Type V Square Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,806	B3 U0 G2	11,478	B4 U0 G2	10,575	B3 U0 G2	11,678	B4 U0 G2
K	15,909	B4 U0 G2	16,897	B4 U0 G2	15,800	B4 U0 G2	17,191	B4 U0 G2
Z	5,552	B3 U0 G1	6,428	B3 U0 G1	6,525	B3 U0 G1	6,539	B3 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

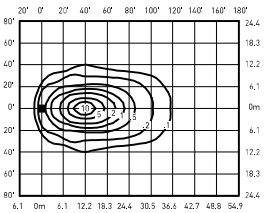
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: https://creelighting.com/products/outdoor/area/osq-series

15D



CESTL Test Report #: PL07689-001A
OSQ-A-**-15D-U-30K-UL
Initial Delivered Lumens: 23,254

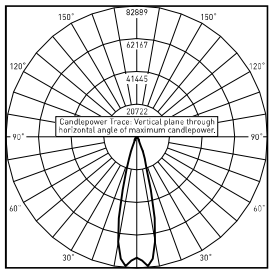


OSQ-A-**-15D-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

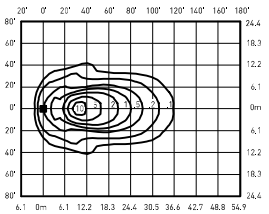
15° Flood Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

25D



CESTL Test Report #: PL07696-001A
OSQ-A-**-25D-U-30K-UL
Initial Delivered Lumens: 23,265

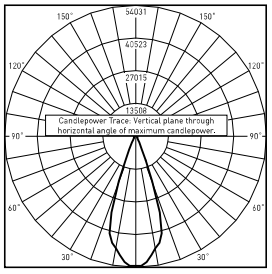


OSQ-A-**-25D-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

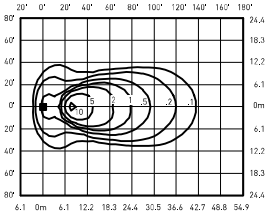
25° Flood Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

40D



CESTL Test Report #: PL07697-001A
OSQ-A-**-40D-U-30K-UL
Initial Delivered Lumens: 22,943



OSQ-A-**-40D-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

40° Flood Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

Photometry

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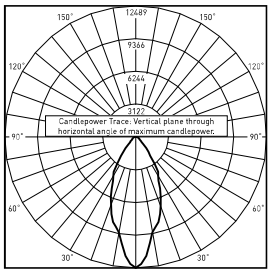
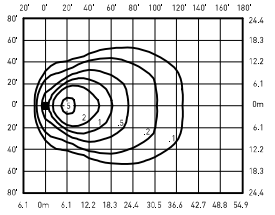
60D



CESTL Test Report #: PL08100-001B
OSQ-A-**-60D-B-30K-UL
Initial Delivered Lumens: 10,079

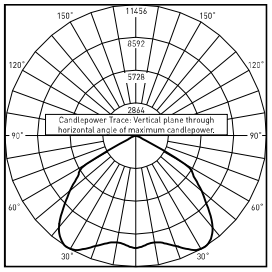


OSQ-A-**-60D-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

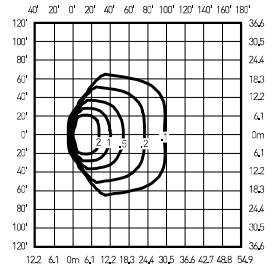
60° Flood Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

120D



RESTL Test Report #: PL15731-001A
OSQ-A-**-120D-U-40K-UL
Initial Delivered Lumens: 25,501

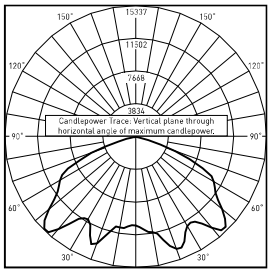


OSQ-A-**-120D-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

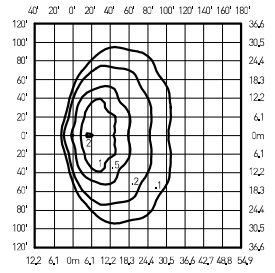
Type 120° Flood Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

WSN



CESTL Test Report #: PL07695-001A
OSQ-A-**-WSN-U-30K-UL
Initial Delivered Lumens: 23,116



OSQ-A-**-WSN-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

Wide Sign Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

Luminaire EPA

Adjustable Arm Mount – OSQ-B-AA Weight: 28.4 lbs. (12.9kg)							
Single	2 @ 180˚	2 @ 90˚	3 @ 90˚	3 @ 120˚	3 @ 180˚	4 @ 180˚	4 @ 90˚
Tenon Configuration (0˚-80˚ Tilt); If used with Cree Lighting tenons, please add tenon EPA with Luminaire EPA							
 PB-1A*; PT-1; PW-1A3**	 PB-2A*; PB-2R2.375; PD-2A4(180); PT-2(180); PW-2A3**	 PB-2A*; PD-2A4(90); PT-2(90)	 PB-3A*; PD-3A4(90); PT-3(90)	 PB-3A*; PT-3(120)	 PB-3A*; PB-3R2.375	 PB-4A*(180)	 PB-4A*(90); PB-4R2.375; PD-4A4(90); PT-4(90)
0˚ Tilt							
0.74	1.48	1.19	1.93	1.63	3.33	4.66	2.38
10˚ Tilt							
0.75	1.48	1.49	2.23	2.15	4.22	5.84	2.98
20˚ Tilt							
1.12	1.48	1.86	2.60	2.85	5.31	7.32	3.72
30˚ Tilt							
1.46	1.48	2.20	2.94	3.56	6.34	8.68	4.40
45˚ Tilt							
1.96	1.96	2.69	3.43	4.54	7.83	10.68	5.38
60˚ Tilt							
2.33	2.33	3.07	3.81	5.11	8.94	12.16	6.14
70˚ Tilt							
2.49	2.49	3.23	3.97	5.11	9.43	12.80	6.46
80˚ Tilt							
2.58	2.58	3.32	4.06	5.11	9.71	13.16	6.64
Tenon Configuration (90˚ Tilt); If used with Cree Lighting tenons, please add tenon EPA with Luminaire EPA							
PB-1A*; PT-1; PW-1A3**	PB-2A*; PB-2R2.375; PD-2A4(180); PT-2(180); PW-2A3**	PB-2A*	PB-3A*	PB-3A*; PT-3(120)	PB-3A*; PB-3R2.375	PB-4A*(180)	PB-4A*(90); PB-4R2.375
90˚ Tilt							
2.61	2.61	4.44	6.05	5.11	9.79	13.28	10.39

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation
** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")

Tenon EPA

Part Number	EPA
PB-1A*	None
PB-2A*	0.82
PB-3A*	1.52
PB-4A*(180)	2.22
PB-4A*(90)	1.11
PB-2R2.375	0.92
PB-3R2.375	1.62
PB-4R2.375	2.32
PD Series Tenons	0.09
PT Series Tenons	0.10
PW-1A3**	0.47
PW-2A3**	0.94
WM-2	0.08
WM-4	0.25
WM-DM	None

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation
** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")

Tenons and Brackets‡ (must specify color)

Square Internal Mount Vertical Tenons (Steel)
- Mounts to 3-6" (76-152mm) square aluminum or steel poles

PB-1A* – Single
PB-2A* – 180˚ Twin
PB-3A* – 180˚ Triple
PB-4A*(90) – 90˚ Quad
PB-4A*(180) – 180˚ Quad

Square Internal Mount Horizontal Tenons (Aluminum)
- Mounts to 4" (102mm) square aluminum or steel poles

PD-2A4(90) – 90˚ Twin
PD-2A4(180) – 180˚ Twin
PD-3A4(90) – 90˚ Triple
PD-4A4(90) – 90˚ Quad

Wall Mount Brackets
- Mounts to wall or roof

WM-2 – Horizontal for OSQ-B-AA mount
WM-4 – L-Shape for OSQ-B-AA mount
WM-DM – Plate for OSQ-DA mount

Round External Mount Vertical Tenons (Steel)
- Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons

PB-2R2.375 – Twin
PB-3R2.375 – Triple
PB-4R2.375 – Quad

Round External Mount Horizontal Tenons (Aluminum)
- Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons
- Mounts to square pole with PB-1A* tenon

PT-1 – Single (Vertical)
PT-2(90) – 90˚ Twin
PT-2(180) – 180˚ Twin
PT-3(90) – 90˚ Triple
PT-3(120) – 120˚ Triple
PT-4(90) – 90˚ Quad

Mid-Pole Bracket
- Mounts to square pole

PW-1A3** – Single
PW-2A3** – Double

Ground Mount Post
- For ground-mounted flood luminaires

PGM-1 - for OSQ-B-AA mount

‡ Refer to the Bracket and Tenons spec sheet for more details

Luminaire EPA

Direct Arm Mount – OSQ-DA Weight: 28.9 lbs. (13.1kg)					
Single	2 @ 180˚	2 @ 90˚	3 @ 90˚	3 @ 120˚	4 @ 90˚
					
0.74	1.48	1.19	1.93	1.63	2.38

Direct Mount Configurations

Compatibility with OSQ-DA Direct Mount Bracket					
Input Power Designator	2 @ 90˚	2 @ 180˚	3 @ 90˚	3 @ 120˚	4 @ 90˚
3" Square					
B, K & Z	N/A	✓	N/A	N/A	N/A
3" Round					
B, K & Z	N/A	✓	N/A	N/A	N/A
4" Square					
B, K & Z	✓	✓	✓	N/A	✓
4" Round					
B, K & Z	✓	✓	✓	✓	✓
5" Square					
B, K & Z	✓	✓	✓	N/A	✓
5" Round					
B, K & Z	✓	✓	✓	✓	✓
6" + Square					
B, K & Z	✓	✓	✓	N/A	✓
6" + Round					
B, K & Z	✓	✓	✓	✓	✓

Luminaire EPA

Trunnion Mount – OSQ-TM Weight: 32.6 lbs. (14.8kg)
Single
0˚ Tilt
0.75
15˚ Tilt
0.99
30˚ Tilt
1.57
45˚ Tilt
2.07
60˚ Tilt
2.46
75˚ Tilt
2.67
90˚ Tilt
2.33

Field Adjustable Output (Q9/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the OSQ area luminaires to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected Q setting and will be fully adjustable between the nine settings.

Q Option Power & Lumen Data – Designator B

Q Option Setting	CCT/CRI	System Watts	Lumen Values						Optics Qualified on DLC QPL	
		120-480V	Asymmetric	5ME	5SH, 5SQ & Floods	2ME w/ BLS	3ME w/ BLS	4ME w/BLS	Standard	Premium
Q9 (Full Power)	30K (70 CRI)	86	10,738	10,232	10,806	8,251	8,477	8,251	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		11,424	10,867	11,478	8,779	9,019	8,779	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		9,350	10,000	10,575	7,200	7,400	7,200	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		11,648	11,056	11,678	8,950	9,196	8,950	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q6	30K (70 CRI)	77	9,449	9,004	9,509	7,261	7,460	7,261	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		10,053	9,563	10,101	7,726	7,937	7,726	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		8,350	8,950	9,450	6,425	6,600	6,425	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		10,250	9,729	10,277	7,876	8,092	7,876	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q5	30K (70 CRI)	72	8,913	8,492	8,969	6,848	7,036	6,848	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		9,482	9,020	9,527	7,287	7,486	7,287	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		7,525	8,050	8,525	5,775	5,950	5,775	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		9,668	9,176	9,693	7,429	7,633	7,429	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q4	30K (70 CRI)	62	7,731	7,367	7,780	5,941	6,103	5,941	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		8,225	7,824	8,264	6,321	6,494	6,321	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		6,575	7,025	7,425	5,050	5,175	5,050	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		8,387	7,960	8,408	6,444	6,621	6,444	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q3	30K (70 CRI)	53	6,550	6,241	6,592	5,033	5,171	5,033	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		6,969	6,629	7,002	5,355	5,502	5,355	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		5,575	5,975	6,325	4,290	4,410	4,290	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		7,105	6,744	7,124	5,460	5,610	5,460	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q2	30K (70 CRI)	45	5,476	5,218	5,511	4,208	4,323	4,208	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		5,826	5,542	5,854	4,477	4,600	4,477	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		4,550	4,890	5,175	3,500	3,590	3,500	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		5,940	5,639	5,956	4,565	4,690	4,565	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q1	30K (70 CRI)	34	4,188	3,990	4,214	3,218	3,306	3,218	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		4,455	4,238	4,476	3,424	3,517	3,424	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		3,500	3,770	3,980	2,690	2,760	2,690	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		4,543	4,312	4,554	3,491	3,586	3,491	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN

Field Adjustable Output (Q9/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the OSQ area luminaires to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected Q setting and will be fully adjustable between the nine settings.

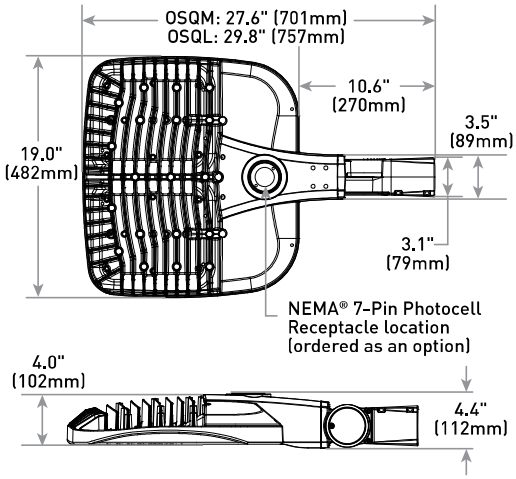
Q Option Power & Lumen Data – Designator K

Q Option Setting	CCT/CRI	System Watts	Lumen Values						Optics Qualified on DLC QPL	
		120-480V	Asymmetric	5ME	5SH, 5SQ & Floods	2ME w/BLS	3ME w/BLS	4ME w/BLS	Standard	Premium
Q9 (Full Power)	30K (70 CRI)	130	16,022	15,063	15,909	12,312	12,649	12,312	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		16,959	15,999	16,897	13,032	13,389	13,032	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		14,000	14,925	15,800	10,750	11,050	10,750	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		17,291	16,277	17,191	13,286	13,650	13,286	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q6	30K (70 CRI)	117	14,099	13,255	14,000	10,835	11,131	10,835	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		14,924	14,079	14,869	11,468	11,782	11,468	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		12,500	13,350	14,100	9,600	9,875	9,600	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		15,216	14,324	15,128	11,692	12,012	11,692	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q5	30K (70 CRI)	110	13,298	12,502	13,204	10,219	10,499	10,219	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		14,076	13,279	14,025	10,817	11,113	10,817	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		11,250	12,050	12,725	8,650	8,900	8,650	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		14,352	13,510	14,269	11,027	11,330	11,027	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q4	30K (70 CRI)	93	11,536	10,845	11,454	8,865	9,107	8,865	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		12,210	11,519	12,166	9,383	9,640	9,383	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		9,825	10,525	11,100	7,550	7,750	7,550	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		12,450	11,719	12,378	9,566	9,828	9,566	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q3	30K (70 CRI)	80	9,773	9,188	9,704	7,510	7,716	7,510	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		10,345	9,759	10,307	7,950	8,167	7,950	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		8,350	8,950	9,475	6,425	6,600	6,425	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		10,548	9,929	10,487	8,104	8,327	8,104	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q2	30K (70 CRI)	67	8,171	7,682	8,114	6,279	6,451	6,279	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		8,649	8,159	8,617	6,646	6,828	6,646	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		6,825	7,325	7,725	5,250	5,375	5,250	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		8,818	8,301	8,767	6,776	6,962	6,776	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q1	30K (70 CRI)	51	6,249	5,875	6,205	4,802	4,933	4,802	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		6,614	6,240	6,590	5,082	5,222	5,082	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		5,250	5,650	5,975	4,030	4,150	4,030	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		6,743	6,348	6,704	5,182	5,324	5,182	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN

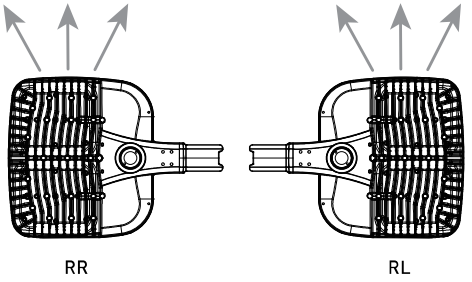
AA Mount



Weight
28.4 lbs. (12.9kg)



RR/RL Configuration

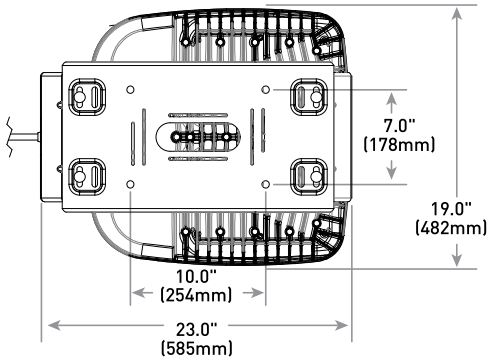


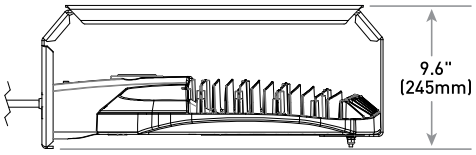
TSP Mount



Weight
42.0 lbs. (19.1kg)

OSQ Large luminaire shown.



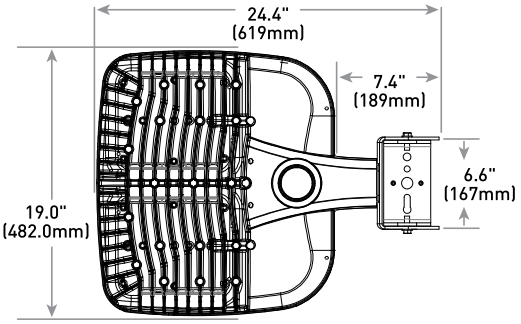


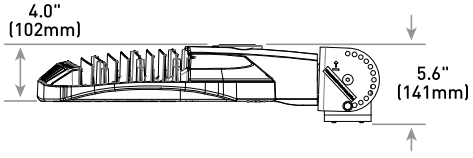
TM Mount



Weight
32.6 lbs. (14.8kg)

OSQ Large luminaire shown.





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US: creelighting.com (800) 236-6800
Canada: creelighting-canada.com (800) 473-1234

CREE LIGHTING
A COMPANY OF *IDEAL INDUSTRIES, INC.*

OSQ Series

OSQ™ LED Area/Flood Luminaire featuring Cree TrueWhite® Technology – Medium

Rev. Date: V27 10/21/2020

Product Description

The OSQ™ Area/Flood luminaire blends extreme optical control, advanced thermal management and modern, clean aesthetics. Built to last, the housing is rugged cast aluminum with an integral, weathertight LED driver compartment. Versatile mounting configurations offer simple installation. Its slim, low-profile design minimizes wind load requirements and blends seamlessly into the site providing even, quality illumination. The 'B' Input power designator is a suitable upgrade for HID applications up to 250 Watt, and the 'K' Input power designator is a suitable upgrade for HID applications up to 400 Watt.

Applications: Parking lots, walkways, campuses, car dealerships, office complexes, tunnels, underpasses, and internal roadways

Performance Summary

Utilizes Cree TrueWhite® Technology on 5000K Luminaires

NanoOptic® Precision Delivery Grid™ optic

Assembled in the U.S.A. of U.S. and imported parts

Initial Delivered Lumens: Up to 17,291

Efficacy: Up to 136 LPW

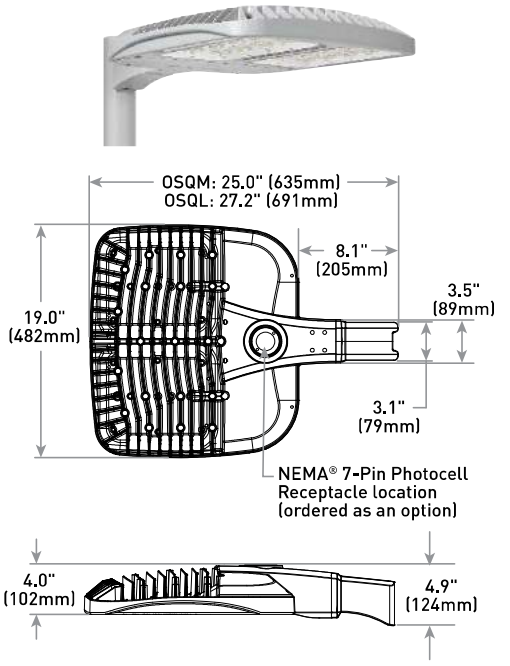
CRI: Minimum 70 CRI (3000K, 4000K & 5700K); 90 CRI (5000K)

CCT: 3000K, 4000K, 5000K, 5700K

Limited Warranty†: 10 years on luminaire; 10 years on Colorfast DeltaGuard® finish; up to 5 years for Synapse® accessories; 1 year on luminaire accessories

† See http://creelighting.com/warranty for warranty terms. For Synapse accessories, consult Synapse spec sheets for details on warranty terms.

DA Mount



Weight
28.9 lbs. (13.1kg)

Ordering Information

Fully assembled luminaire is composed of two components that must be ordered separately:
Example: **Mount:** OSQ-B-AASV + **Luminaire:** OSQ-A-NM-2ME-B-40K-UL-SV

Mount (Luminaire must be ordered separately)*	
OSQ-	
OSQ-B-AA Adjustable Arm **OSQ-DA** Direct Arm **OSQ-M-TSP** Transportation Mount (stainless steel; do not specify color) **OSQ-TM** Trunnion Mount	**Color Options:** **SV** Silver **BZ** Bronze **BK** Black **WH** White

* Reference EPA and pole configuration suitability data beginning on page 10

Luminaire (Mount must be ordered separately)

OSQ	A	NM						
Product	**Version**	**Mounting**	**Optic**	**Input Power Designator**	**CCT**	**Voltage**	**Color Options**	**Options**
OSQ	**A**	**NM** No Mount	**Asymmetric** **2ME*** Type II Medium **4ME*** Type IV Medium **3ME*** Type III Medium **Symmetric** **5ME** Type V Medium **5SH** Type V Short **5SQ** Type V Square **WSN** Wide Sign **15D** 15° Flood **25D** 25° Flood **40D** 40° Flood **60D** 60° Flood **120D** 120° Flood	**B** 86W **K** 130W **Z** 53W	**30K** 3000K, 70 CRI **40K** 4000K, 70 CRI **50K** 5000K, 90 CRI **57K** 5700K, 70 CRI	**UL** Universal 120-277V **UH** Universal 347-480V - Available with B & K Input Power Designators only	**BK** Black **BZ** Bronze **SV** Silver **WH** White	**F Fuse** - Compatible only with 120V, 277V or 347V (phase to neutral) - Consult factory if fusing is required for 208V, 240V or 480V (phase to phase) - Refer to PML spec sheet for availability with PML options - When code dictates fusing, use time delay fuse **PML Programmable Multi-Level, up to 40' Mounting Height** - Refer to PML spec sheet for details - Intended for downlight applications at 0° tilt **PML2 Programmable Multi-Level, 10-30' Mounting Height** - Refer to PML spec sheet for details - Intended for downlight applications at 0° tilt **Q9/Q6/Q5/Q4/Q3/Q2/Q1 Field Adjustable Output** - Must select Q9, Q6, Q5, Q4, Q3, Q2, or Q1 - Offers full range adjustability - Refer to pages 12-13 for power and lumen values - Available with B & K Input Power Designators only - Not available with PML or PML2 options **R NEMA® 7-Pin Photocell Receptacle** - 7-pin receptacle per ANSI C136.41 - Intended for downlight applications with maximum 45° tilt - Factory connected 0-10V dim leads - 18" (457mm) seven-conductor cord exits luminaire - Requires photocell or shorting cap by others **RL Rotate Left** - LED and optic are rotated to the left - Refer to RR/RL configuration diagram on page 14 for optic directionality - Not for use with symmetric optics **RR Rotate Right** - LED and optic are rotated to the right - Refer to RR/RL configuration diagram on page 14 for optic directionality - Not for use with symmetric optics

* Available with Backlight Shield when ordered with field-installed accessory (see table above)

US: creelighting.com (800) 236-6800
Canada: creelighting-canada.com (800) 473-1234

Product Specifications

CREE TRUEWHITE® TECHNOLOGY

A revolutionary way to generate high-quality white light, Cree TrueWhite® Technology is a patented approach that delivers an exclusive combination of 90+ CRI, beautiful light characteristics and lifelong color consistency, all while maintaining high luminous efficacy – a true no compromise solution.

CONSTRUCTION & MATERIALS

- Slim, low profile design minimizes wind load requirements
- Luminaire housing is rugged die cast aluminum with an integral, weathertight LED driver compartment and high-performance heat sink
- Convenient interlocking mounting method on direct arm mount. Mounting adaptor is rugged die cast aluminum and mounts to 3" (76mm) or larger square or round pole, secured by two 5/16-18 UNC bolts spaced on 2" (51mm) centers
- Mounting for the adjustable arm mount adaptor is rugged die cast aluminum and mounts to 2" (51mm) IP, 2.375" (60mm) O.D. tenon
- Adjustable arm mount can be adjusted 180° in 2.5° increments
- Transportation mount is constructed of 316 stainless steel and mounts to surface with (4) 3/8" fasteners by others
- Trunnion mount is constructed of A500 and A1011 steel and is adjustable from 0-180° in 15° degree increments. Trunnion mount secures to surface with (1) 3/4" bolt or (2) 1/2" or 3/8" bolts
- Includes 18" (340mm) 18/5 or 16/5 cord exiting the luminaire. When ordered with R option, 18" (340mm) 18/7 or 16/7 cord is provided
- Designed for uplight and downlight applications
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver, bronze, black, and white are available
- **Weight:** OSQ-DA: 28.9 lbs. (13.1kg); OSQ-B-AA: 28.4 lbs. (12.9kg); OSQ-M-TSP: 42 lbs. (19.1kg); OSQ-TM: 32.6 lbs. (14.8kg)

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- Designed with 0-10V dimming capabilities. Controls by others
- Refer to Dimming spec sheet for details
- **Maximum 10V Source Current:** 1.0mA
- **Operating Temperature Range:** -40°C - +40°C (-40°F - +104°F)

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Enclosure rated IP66 per IEC 60529 when ordered without R option
- Consult factory for CE Certified products
- Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards with AA, DA, TM, and TSP mounts
- ANSI C136.2 10kV surge protection, tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Meets Buy American requirements within ARRA
- DLC and DLC Premium qualified versions available. Some exceptions apply. Please refer to https://www.designlights.org/search/ for most current information
- RoHS compliant. Consult factory for additional details
- Dark Sky Friendly, IDA Approved when ordered with 30K CCT and direct or transportation mounts only. Please refer to https://www.darksky.org/our-work/lighting/lighting-for-industry/fsa/fsa-products/ for most current information
- ⚠ **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – www.p65warnings.ca.gov

Product Specifications

SYNAPSE® SIMPLYSNAP INTELLIGENT CONTROL

The Synapse SimplySNAP platform is a highly intuitive connected lighting solution featuring zone dimming, motion sensing, and daylight harvesting with utility-grade power monitoring and support of up to 1000 nodes per gateway. The system features a reliable and robust self-healing mesh network with a browser-based interface that runs on smartphones, tablets, and PCs. The Twist-Lock Lighting Controller (TL7-B2) and Site Controller (SS450-002) take the OSQ Series to a new performance plateau, providing extreme energy productivity, code compliance and a better light experience.

Electrical Data*

Input Power Designator	System Watts 120-480V	Total Current (A)					
		120V	208V	240V	277V	347V	480V
B	86	0.73	0.43	0.37	0.32	0.25	0.19
K	130	1.09	0.65	0.56	0.49	0.38	0.28
Z	53**	0.46	0.26	0.22	0.19	N/A	N/A

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V or 347-480V+/-10%
** Available with UL voltage only

OSQ Series Ambient Adjusted Lumen Maintenance[1]

Ambient	Optic	Initial LMF	25K hr Reported[2] LMF	50K hr Reported[2] LMF	75K hr Reported[2]/ Estimated[3] LMF	100K hr Reported[2]/ Estimated[3] LMF
5°C (41°F)	Asymmetric	1.04	1.03	1.01	0.99[2]	0.97[2]
	Symmetric	1.05	1.05	1.05	1.05[3]	1.05[3]
10°C (50°F)	Asymmetric	1.03	1.02	1.00	0.98[2]	0.96[2]
	Symmetric	1.04	1.03	1.03	1.03[3]	1.03[3]
15°C (59°F)	Asymmetric	1.02	1.01	0.99	0.97[2]	0.95[2]
	Symmetric	1.02	1.02	1.02	1.02[3]	1.02[3]
20°C (68°F)	Asymmetric	1.01	1.00	0.98	0.96[2]	0.94[2]
	Symmetric	1.01	1.01	1.01	1.01[3]	1.01[3]
25°C (77°F)	Asymmetric	1.00	0.99	0.97	0.95[2]	0.93[2]
	Symmetric	1.00	1.00	1.00	1.00[3]	1.00[3]

[1] Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors. Please refer to the Temperature Zone Reference Document for outdoor average nighttime ambient conditions.
[2] In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.
[3] Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED.

Accessories

Field-Installed

Backlight Shield
OSQ-BLSMF
– Front facing optics
OSQ-BLSMR
– Rotated optics

Hand-Held Remote
XA-SENSREM
- For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required

Bird Spikes
OSQ-MED-BRDSPK

Shorting Cap
XA-XSLSHRT

Synapse Wireless Control Accessories

Twist-Lock Lighting Controller
TL7-B2
- Suitable for 120-277V (UL) voltage only
- Requires NEMA/ANSI C136.41 7-Pin Dimming Receptacle
- Not for use with PML or Q options
- Provides On/Off switching, dimming, power metering, digital sensor input, and status monitoring of luminaires
- Refer to TL7-B2 spec sheet for details

SimplySNAP Central Base Station
CBSSW-450-002
- Includes On-Site Controller (SS450-002) and 5-button switch
- Indoor and Outdoor rated
- Refer to CBSSW-450-002 spec sheet for details

Synapse Wireless Sensor
WSN-DPM
- Motion and light sensor
- Control multiple zones
- Refer to WSN-DPM spec sheet for details

SimplySNAP On-Site Controller
SS450-002
- Verizon® LTE-enabled
- Designed for indoor applications
- Refer to SS450-002 spec sheet for details

Building Management System (BMS) Gateway
BMS-GW-002
- Required for BACnet integration
- Refer to BMS-GW-002 spec sheet for details

Outdoor Antennas
(Optional, for increased range, 8dB gain)
KIT-ANT420SM
- Kit includes antenna, 20' cable and bracket

KIT-ANT360
- Kit includes antenna, 30' cable and bracket

KIT-ANT600
- Kit includes antenna, 50' cable and bracket
- Refer to Outdoor antenna spec sheet for details

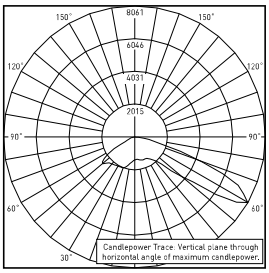
US: creelighting.com (800) 236-6800
Canada: creelighting-canada.com (800) 473-1234

CREE LIGHTING

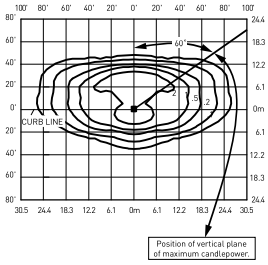
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: https://creelighting.com/products/outdoor/area/osq-series

2ME



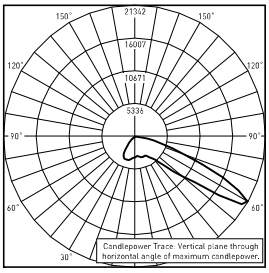
RESTL Test Report #: PL08877-001A
OSQ-A-**-2ME-B-30K-UL
Initial Delivered Lumens: 10,381



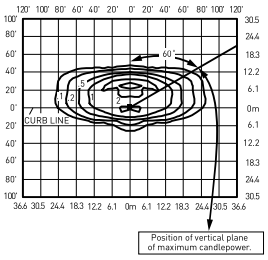
OSQ-A-**-2ME-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,424
Initial FC at grade

Type II Medium Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,738	B2 U0 G2	11,424	B2 U0 G2	9,350	B2 U0 G2	11,648	B2 U0 G2
K	16,022	B3 U0 G3	16,959	B3 U0 G3	14,000	B3 U0 G2	17,291	B3 U0 G3
Z	6,481	B2 U0 G1	6,896	B2 U0 G1	5,750	B1 U0 G1	7,031	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt



CESTL Test Report #: PL07700-001A
OSQ-A-**-2ME-U-57K-UL w/OSQ-BLSLF
Initial Delivered Lumens: 22,822



OSQ-A-**-2ME-B-40K-UL w/OSQ-BLSMF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 8,779
Initial FC at grade

Type II Medium w/BLS Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11
B	8,251	B2 U0 G2	8,779	B2 U0 G2	7,200	B1 U0 G1	8,950	B2 U0 G2
K	12,312	B2 U0 G2	13,032	B2 U0 G2	10,750	B2 U0 G2	13,286	B2 U0 G2
Z	4,980	B1 U0 G1	5,299	B1 U0 G1	4,420	B1 U0 G1	5,402	B1 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

Photometry

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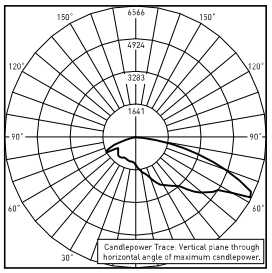
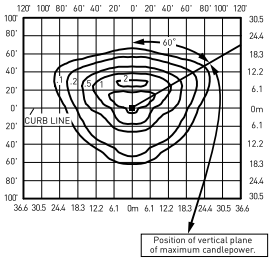
3ME



RESTL Test Report #: PL08876-001A
OSQ-A-**-3ME-B-30K-UL
Initial Delivered Lumens: 10,421



OSQ-A-**-3ME-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,424
Initial FC at grade

Type III Medium Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,738	B3 U0 G3	11,424	B3 U0 G3	9,350	B2 U0 G2	11,648	B3 U0 G3
K	16,022	B3 U0 G3	16,959	B3 U0 G3	14,000	B3 U0 G3	17,291	B3 U0 G3
Z	6,481	B2 U0 G2	6,896	B2 U0 G2	5,750	B2 U0 G2	7,031	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
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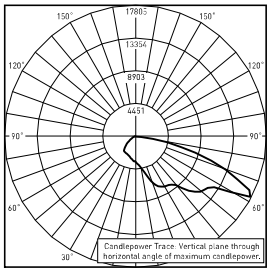
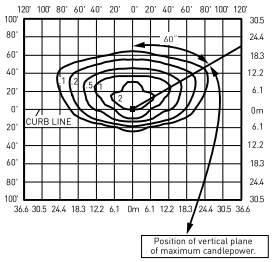


CESTL Test Report #: PL07699-001A
OSQ-A-**-3ME-U-57K-UL w/OSQ-BLSLF
Initial Delivered Lumens: 23,601



OSQ-A-**-3ME-B-40K-UL w/OSQ-BLSMF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 9,019
Initial FC at grade

Type III Medium w/BLS Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	8,477	B1 U0 G2	9,019	B1 U0 G2	7,400	B1 U0 G2	9,196	B1 U0 G2
K	12,649	B2 U0 G2	13,389	B2 U0 G2	11,050	B2 U0 G2	13,650	B2 U0 G2
Z	5,117	B1 U0 G1	5,444	B1 U0 G1	4,540	B1 U0 G1	5,551	B1 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

Photometry

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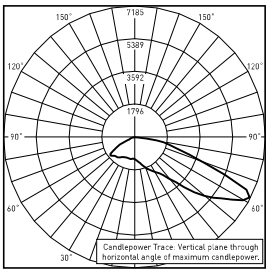
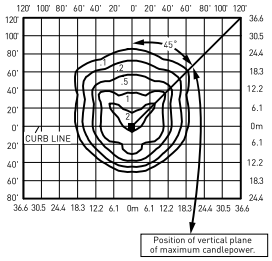
4ME



RESTL Test Report #: PL08878-001A
OSQ-A-**-4ME-B-30K-UL
Initial Delivered Lumens: 10,230



OSQ-A-**-4ME-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,424
Initial FC at grade

Type IV Medium Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,738	B2 U0 G2	11,424	B2 U0 G2	9,350	B2 U0 G2	11,648	B2 U0 G2
K	16,022	B3 U0 G3	16,959	B3 U0 G3	14,000	B3 U0 G3	17,291	B3 U0 G3
Z	6,481	B2 U0 G2	6,896	B2 U0 G2	5,750	B2 U0 G1	7,031	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
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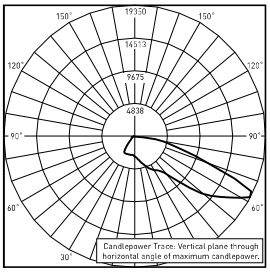
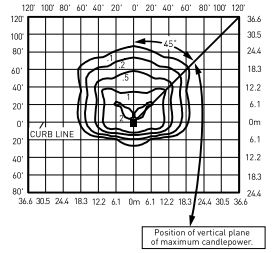


CESTL Test Report #: PL07692-001A
OSQ-A-**-4ME-U-57K-UL w/OSQ-BLSLF
Initial Delivered Lumens: 22,793



OSQ-A-**-4ME-B-40K-UL w/OSQ-BLSMF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 8,779
Initial FC at grade

Type IV Medium w/BLS Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	8,251	B1 U0 G2	8,779	B1 U0 G2	7,200	B1 U0 G2	8,950	B1 U0 G2
K	12,312	B2 U0 G2	13,032	B2 U0 G2	10,750	B2 U0 G2	13,286	B2 U0 G2
Z	4,980	B1 U0 G1	5,299	B1 U0 G1	4,420	B1 U0 G1	5,402	B1 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
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Photometry

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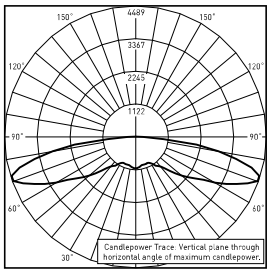
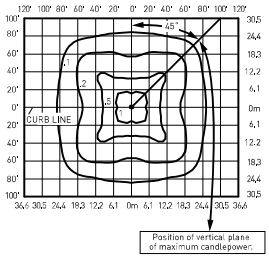
5ME



RESTL Test Report #: PL08534-001B
OSQ-A-**-5ME-B-40K-UL
Initial Delivered Lumens: 10,519

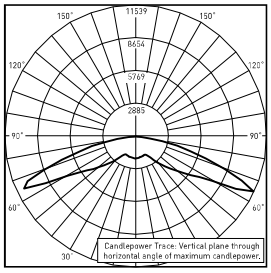


OSQ-A-**-5ME-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 10,867
Initial FC at grade

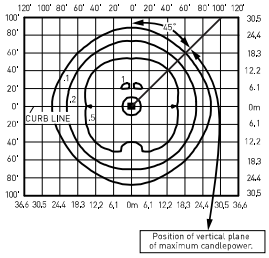
Type V Medium Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,232	B4 U0 G3	10,867	B4 U0 G3	10,000	B4 U0 G3	11,056	B4 U0 G3
K	15,063	B4 U0 G4	15,999	B4 U0 G4	14,925	B4 U0 G4	16,277	B4 U0 G4
Z	5,257	B3 U0 G3	6,086	B3 U0 G3	6,175	B3 U0 G3	6,192	B3 U0 G3

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

5SH



CESTL Test Report #: PL10754-001A
OSQ-A-**-5SH-U-40K-UL
Initial Delivered Lumens: 25,679



OSQ-A-**-5SH-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,478
Initial FC at grade

Type V Short Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,806	B4 U0 G2	11,478	B4 U0 G2	10,575	B4 U0 G2	11,678	B4 U0 G2
K	15,909	B4 U0 G3	16,897	B4 U0 G3	15,800	B4 U0 G3	17,191	B4 U0 G3
Z	5,552	B3 U0 G1	6,428	B3 U0 G2	6,525	B3 U0 G2	6,539	B3 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

Photometry

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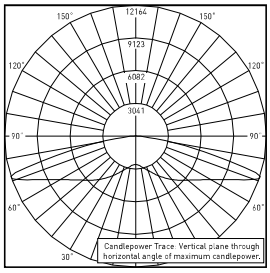
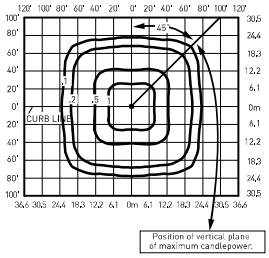
5SQ



RESTL Test Report #: PL14561-001B
OSQ-A-**-5SQ-U-57K-UL
Initial Delivered Lumens: 28,716



OSQ-A-NM-5SQ-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,478
Initial FC at grade

Type V Square Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,806	B3 U0 G2	11,478	B4 U0 G2	10,575	B3 U0 G2	11,678	B4 U0 G2
K	15,909	B4 U0 G2	16,897	B4 U0 G2	15,800	B4 U0 G2	17,191	B4 U0 G2
Z	5,552	B3 U0 G1	6,428	B3 U0 G1	6,525	B3 U0 G1	6,539	B3 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
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Photometry

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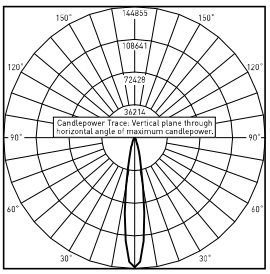
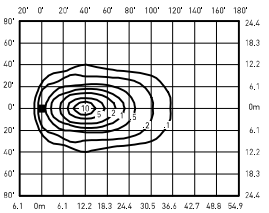
15D



CESTL Test Report #: PL07689-001A
OSQ-A-**-15D-U-30K-UL
Initial Delivered Lumens: 23,254

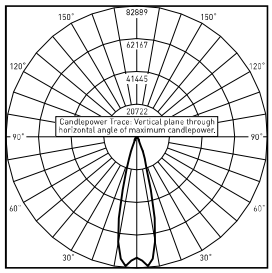


OSQ-A-**-15D-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

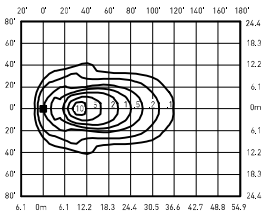
15° Flood Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

25D



CESTL Test Report #: PL07696-001A
OSQ-A-**-25D-U-30K-UL
Initial Delivered Lumens: 23,265

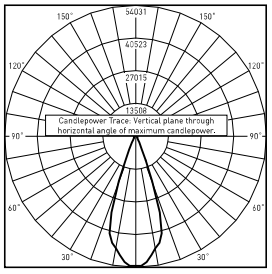


OSQ-A-**-25D-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

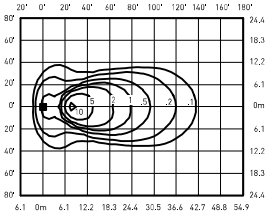
25° Flood Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

40D



CESTL Test Report #: PL07697-001A
OSQ-A-**-40D-U-30K-UL
Initial Delivered Lumens: 22,943



OSQ-A-**-40D-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

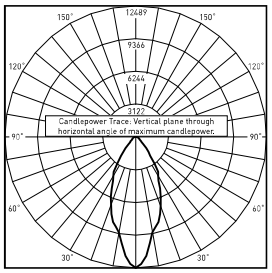
40° Flood Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

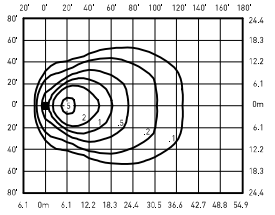
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: https://creelighting.com/products/outdoor/area/osq-series

60D



CESTL Test Report #: PL08100-001B
OSQ-A-**-60D-B-30K-UL
Initial Delivered Lumens: 10,079

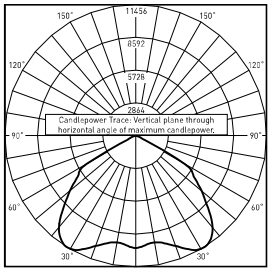


OSQ-A-**-60D-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

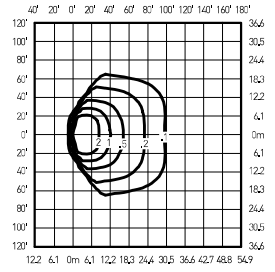
60° Flood Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

120D



RESTL Test Report #: PL15731-001A
OSQ-A-**-120D-U-40K-UL
Initial Delivered Lumens: 25,501

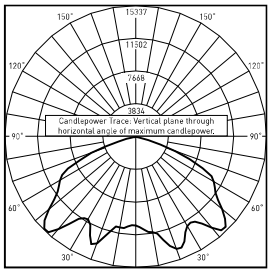


OSQ-A-**-120D-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

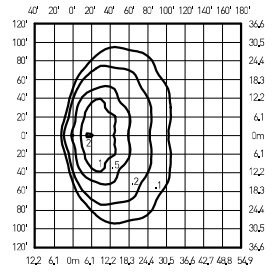
Type 120° Flood Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

WSN



CESTL Test Report #: PL07695-001A
OSQ-A-**-WSN-U-30K-UL
Initial Delivered Lumens: 23,116



OSQ-A-**-WSN-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

Wide Sign Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

Luminaire EPA

Adjustable Arm Mount – OSQ-B-AA Weight: 28.4 lbs. (12.9kg)							
Single	2 @ 180˚	2 @ 90˚	3 @ 90˚	3 @ 120˚	3 @ 180˚	4 @ 180˚	4 @ 90˚
Tenon Configuration (0˚-80˚ Tilt); If used with Cree Lighting tenons, please add tenon EPA with Luminaire EPA							
 PB-1A*; PT-1; PW-1A3**	 PB-2A*; PB-2R2.375; PD-2A4(180); PT-2(180); PW-2A3**	 PB-2A*; PD-2A4(90); PT-2(90)	 PB-3A*; PD-3A4(90); PT-3(90)	 PB-3A*; PT-3(120)	 PB-3A*; PB-3R2.375	 PB-4A*(180)	 PB-4A*(90); PB-4R2.375; PD-4A4(90); PT-4(90)
0˚ Tilt							
0.74	1.48	1.19	1.93	1.63	3.33	4.66	2.38
10˚ Tilt							
0.75	1.48	1.49	2.23	2.15	4.22	5.84	2.98
20˚ Tilt							
1.12	1.48	1.86	2.60	2.85	5.31	7.32	3.72
30˚ Tilt							
1.46	1.48	2.20	2.94	3.56	6.34	8.68	4.40
45˚ Tilt							
1.96	1.96	2.69	3.43	4.54	7.83	10.68	5.38
60˚ Tilt							
2.33	2.33	3.07	3.81	5.11	8.94	12.16	6.14
70˚ Tilt							
2.49	2.49	3.23	3.97	5.11	9.43	12.80	6.46
80˚ Tilt							
2.58	2.58	3.32	4.06	5.11	9.71	13.16	6.64
Tenon Configuration (90˚ Tilt); If used with Cree Lighting tenons, please add tenon EPA with Luminaire EPA							
PB-1A*; PT-1; PW-1A3**	PB-2A*; PB-2R2.375; PD-2A4(180); PT-2(180); PW-2A3**	PB-2A*	PB-3A*	PB-3A*; PT-3(120)	PB-3A*; PB-3R2.375	PB-4A*(180)	PB-4A*(90); PB-4R2.375
90˚ Tilt							
2.61	2.61	4.44	6.05	5.11	9.79	13.28	10.39

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation
** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")

Tenon EPA

Part Number	EPA
PB-1A*	None
PB-2A*	0.82
PB-3A*	1.52
PB-4A*(180)	2.22
PB-4A*(90)	1.11
PB-2R2.375	0.92
PB-3R2.375	1.62
PB-4R2.375	2.32
PD Series Tenons	0.09
PT Series Tenons	0.10
PW-1A3**	0.47
PW-2A3**	0.94
WM-2	0.08
WM-4	0.25
WM-DM	None

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation
** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")

Tenons and Brackets‡ (must specify color)

Square Internal Mount Vertical Tenons (Steel)
- Mounts to 3-6" (76-152mm) square aluminum or steel poles

PB-1A* – Single
PB-2A* – 180˚ Twin
PB-3A* – 180˚ Triple
PB-4A*(90) – 90˚ Quad
PB-4A*(180) – 180˚ Quad

Square Internal Mount Horizontal Tenons (Aluminum)
- Mounts to 4" (102mm) square aluminum or steel poles

PD-2A4(90) – 90˚ Twin
PD-2A4(180) – 180˚ Twin
PD-3A4(90) – 90˚ Triple
PD-4A4(90) – 90˚ Quad

Wall Mount Brackets
- Mounts to wall or roof

WM-2 – Horizontal for OSQ-B-AA mount
WM-4 – L-Shape for OSQ-B-AA mount
WM-DM – Plate for OSQ-DA mount

Round External Mount Vertical Tenons (Steel)
- Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons

PB-2R2.375 – Twin
PB-3R2.375 – Triple
PB-4R2.375 – Quad

Round External Mount Horizontal Tenons (Aluminum)
- Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons
- Mounts to square pole with PB-1A* tenon

PT-1 – Single (Vertical)
PT-2(90) – 90˚ Twin
PT-2(180) – 180˚ Twin
PT-3(90) – 90˚ Triple
PT-3(120) – 120˚ Triple
PT-4(90) – 90˚ Quad

Mid-Pole Bracket
- Mounts to square pole

PW-1A3** – Single
PW-2A3** – Double

Ground Mount Post
- For ground-mounted flood luminaires

PGM-1 - for OSQ-B-AA mount

‡ Refer to the Bracket and Tenons spec sheet for more details

Luminaire EPA

Direct Arm Mount – OSQ-DA Weight: 28.9 lbs. (13.1kg)					
Single	2 @ 180˚	2 @ 90˚	3 @ 90˚	3 @ 120˚	4 @ 90˚
					
0.74	1.48	1.19	1.93	1.63	2.38

Direct Mount Configurations

Compatibility with OSQ-DA Direct Mount Bracket					
Input Power Designator	2 @ 90˚	2 @ 180˚	3 @ 90˚	3 @ 120˚	4 @ 90˚
3" Square					
B, K & Z	N/A	✓	N/A	N/A	N/A
3" Round					
B, K & Z	N/A	✓	N/A	N/A	N/A
4" Square					
B, K & Z	✓	✓	✓	N/A	✓
4" Round					
B, K & Z	✓	✓	✓	✓	✓
5" Square					
B, K & Z	✓	✓	✓	N/A	✓
5" Round					
B, K & Z	✓	✓	✓	✓	✓
6" + Square					
B, K & Z	✓	✓	✓	N/A	✓
6" + Round					
B, K & Z	✓	✓	✓	✓	✓

Luminaire EPA

Trunnion Mount – OSQ-TM Weight: 32.6 lbs. (14.8kg)
Single
0˚ Tilt
0.75
15˚ Tilt
0.99
30˚ Tilt
1.57
45˚ Tilt
2.07
60˚ Tilt
2.46
75˚ Tilt
2.67
90˚ Tilt
2.33

Field Adjustable Output (Q9/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the OSQ area luminaires to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected Q setting and will be fully adjustable between the nine settings.

Q Option Power & Lumen Data – Designator B

Q Option Setting	CCT/CRI	System Watts	Lumen Values						Optics Qualified on DLC QPL	
		120-480V	Asymmetric	5ME	5SH, 5SQ & Floods	2ME w/ BLS	3ME w/ BLS	4ME w/BLS	Standard	Premium
Q9 (Full Power)	30K (70 CRI)	86	10,738	10,232	10,806	8,251	8,477	8,251	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		11,424	10,867	11,478	8,779	9,019	8,779	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		9,350	10,000	10,575	7,200	7,400	7,200	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		11,648	11,056	11,678	8,950	9,196	8,950	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q6	30K (70 CRI)	77	9,449	9,004	9,509	7,261	7,460	7,261	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		10,053	9,563	10,101	7,726	7,937	7,726	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		8,350	8,950	9,450	6,425	6,600	6,425	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		10,250	9,729	10,277	7,876	8,092	7,876	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q5	30K (70 CRI)	72	8,913	8,492	8,969	6,848	7,036	6,848	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		9,482	9,020	9,527	7,287	7,486	7,287	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		7,525	8,050	8,525	5,775	5,950	5,775	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		9,668	9,176	9,693	7,429	7,633	7,429	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q4	30K (70 CRI)	62	7,731	7,367	7,780	5,941	6,103	5,941	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		8,225	7,824	8,264	6,321	6,494	6,321	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		6,575	7,025	7,425	5,050	5,175	5,050	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		8,387	7,960	8,408	6,444	6,621	6,444	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q3	30K (70 CRI)	53	6,550	6,241	6,592	5,033	5,171	5,033	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		6,969	6,629	7,002	5,355	5,502	5,355	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		5,575	5,975	6,325	4,290	4,410	4,290	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		7,105	6,744	7,124	5,460	5,610	5,460	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q2	30K (70 CRI)	45	5,476	5,218	5,511	4,208	4,323	4,208	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		5,826	5,542	5,854	4,477	4,600	4,477	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		4,550	4,890	5,175	3,500	3,590	3,500	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		5,940	5,639	5,956	4,565	4,690	4,565	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q1	30K (70 CRI)	34	4,188	3,990	4,214	3,218	3,306	3,218	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		4,455	4,238	4,476	3,424	3,517	3,424	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		3,500	3,770	3,980	2,690	2,760	2,690	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		4,543	4,312	4,554	3,491	3,586	3,491	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN

Field Adjustable Output (Q9/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the OSQ area luminaires to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected Q setting and will be fully adjustable between the nine settings.

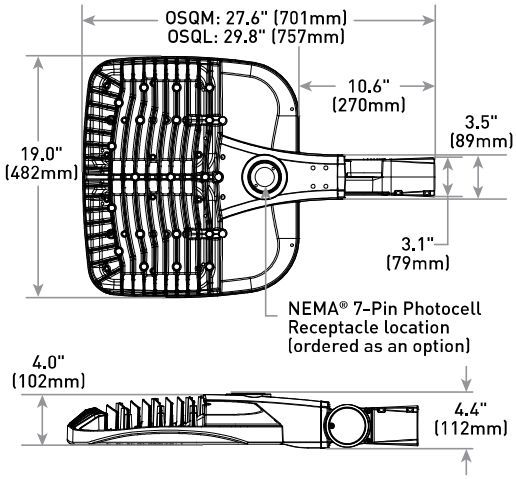
Q Option Power & Lumen Data – Designator K

Q Option Setting	CCT/CRI	System Watts	Lumen Values						Optics Qualified on DLC QPL	
		120-480V	Asymmetric	5ME	5SH, 5SQ & Floods	2ME w/BLS	3ME w/BLS	4ME w/BLS	Standard	Premium
Q9 (Full Power)	30K (70 CRI)	130	16,022	15,063	15,909	12,312	12,649	12,312	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		16,959	15,999	16,897	13,032	13,389	13,032	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		14,000	14,925	15,800	10,750	11,050	10,750	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		17,291	16,277	17,191	13,286	13,650	13,286	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q6	30K (70 CRI)	117	14,099	13,255	14,000	10,835	11,131	10,835	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		14,924	14,079	14,869	11,468	11,782	11,468	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		12,500	13,350	14,100	9,600	9,875	9,600	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		15,216	14,324	15,128	11,692	12,012	11,692	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q5	30K (70 CRI)	110	13,298	12,502	13,204	10,219	10,499	10,219	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		14,076	13,279	14,025	10,817	11,113	10,817	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		11,250	12,050	12,725	8,650	8,900	8,650	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		14,352	13,510	14,269	11,027	11,330	11,027	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q4	30K (70 CRI)	93	11,536	10,845	11,454	8,865	9,107	8,865	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		12,210	11,519	12,166	9,383	9,640	9,383	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		9,825	10,525	11,100	7,550	7,750	7,550	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		12,450	11,719	12,378	9,566	9,828	9,566	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q3	30K (70 CRI)	80	9,773	9,188	9,704	7,510	7,716	7,510	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		10,345	9,759	10,307	7,950	8,167	7,950	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		8,350	8,950	9,475	6,425	6,600	6,425	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		10,548	9,929	10,487	8,104	8,327	8,104	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q2	30K (70 CRI)	67	8,171	7,682	8,114	6,279	6,451	6,279	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		8,649	8,159	8,617	6,646	6,828	6,646	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		6,825	7,325	7,725	5,250	5,375	5,250	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		8,818	8,301	8,767	6,776	6,962	6,776	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q1	30K (70 CRI)	51	6,249	5,875	6,205	4,802	4,933	4,802	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		6,614	6,240	6,590	5,082	5,222	5,082	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		5,250	5,650	5,975	4,030	4,150	4,030	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		6,743	6,348	6,704	5,182	5,324	5,182	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN

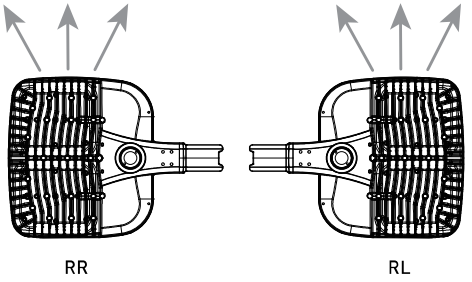
AA Mount



Weight
28.4 lbs. (12.9kg)



RR/RL Configuration

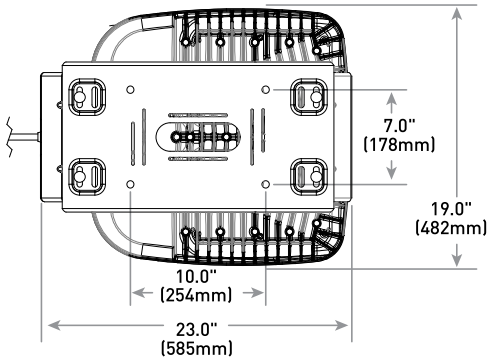


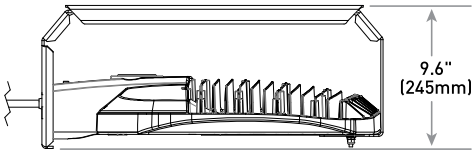
TSP Mount



Weight
42.0 lbs. (19.1kg)

OSQ Large luminaire shown.



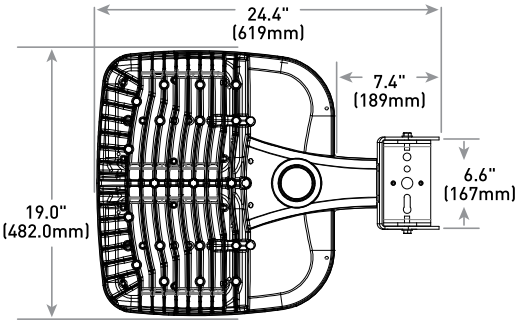


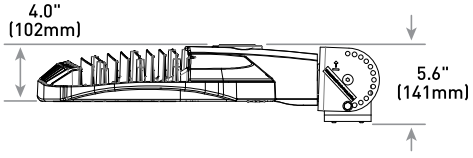
TM Mount



Weight
32.6 lbs. (14.8kg)

OSQ Large luminaire shown.





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CREE LIGHTING
A COMPANY OF *IDEAL INDUSTRIES, INC.*

OSQ Series

OSQ™ LED Area/Flood Luminaire featuring Cree TrueWhite® Technology – Medium

Rev. Date: V27 10/21/2020

Product Description

The OSQ™ Area/Flood luminaire blends extreme optical control, advanced thermal management and modern, clean aesthetics. Built to last, the housing is rugged cast aluminum with an integral, weathertight LED driver compartment. Versatile mounting configurations offer simple installation. Its slim, low-profile design minimizes wind load requirements and blends seamlessly into the site providing even, quality illumination. The 'B' Input power designator is a suitable upgrade for HID applications up to 250 Watt, and the 'K' Input power designator is a suitable upgrade for HID applications up to 400 Watt.

Applications: Parking lots, walkways, campuses, car dealerships, office complexes, tunnels, underpasses, and internal roadways

Performance Summary

Utilizes Cree TrueWhite® Technology on 5000K Luminaires

NanoOptic® Precision Delivery Grid™ optic

Assembled in the U.S.A. of U.S. and imported parts

Initial Delivered Lumens: Up to 17,291

Efficacy: Up to 136 LPW

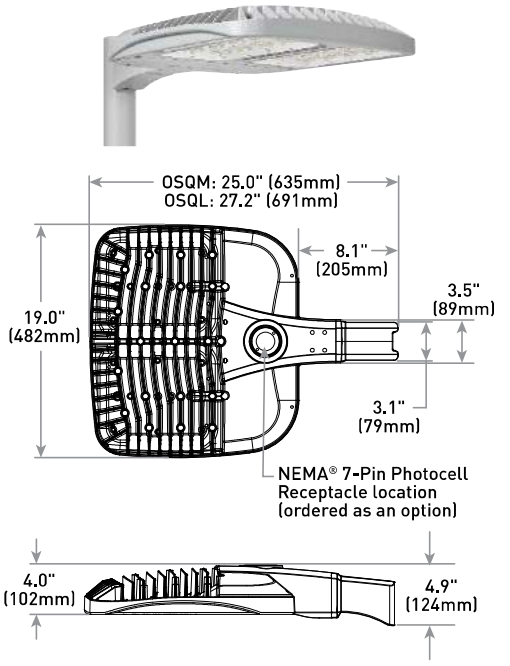
CRI: Minimum 70 CRI (3000K, 4000K & 5700K); 90 CRI (5000K)

CCT: 3000K, 4000K, 5000K, 5700K

Limited Warranty†: 10 years on luminaire; 10 years on Colorfast DeltaGuard® finish; up to 5 years for Synapse® accessories; 1 year on luminaire accessories

† See http://creelighting.com/warranty for warranty terms. For Synapse accessories, consult Synapse spec sheets for details on warranty terms.

DA Mount



Weight
28.9 lbs. (13.1kg)

Ordering Information

Fully assembled luminaire is composed of two components that must be ordered separately:
Example: **Mount:** OSQ-B-AASV + **Luminaire:** OSQ-A-NM-2ME-B-40K-UL-SV

Mount (Luminaire must be ordered separately)*	
OSQ-	
OSQ-B-AA Adjustable Arm **OSQ-DA** Direct Arm **OSQ-M-TSP** Transportation Mount (stainless steel; do not specify color) **OSQ-TM** Trunnion Mount	**Color Options:** **SV** Silver **BZ** Bronze **BK** Black **WH** White

* Reference EPA and pole configuration suitability data beginning on page 10

Luminaire (Mount must be ordered separately)

OSQ	A	NM						
Product	**Version**	**Mounting**	**Optic**	**Input Power Designator**	**CCT**	**Voltage**	**Color Options**	**Options**
OSQ	**A**	**NM** No Mount	**Asymmetric** **2ME*** Type II Medium **3ME*** Type III Medium **4ME*** Type IV Medium **Symmetric** **5ME** Type V Medium **5SH** Type V Short **5SQ** Type V Square **WSN** Wide Sign **15D** 15° Flood **25D** 25° Flood **40D** 40° Flood **60D** 60° Flood **120D** 120° Flood	**B** 86W **K** 130W **Z** 53W	**30K** 3000K, 70 CRI **40K** 4000K, 70 CRI **50K** 5000K, 90 CRI **57K** 5700K, 70 CRI	**UL** Universal 120-277V **UH** Universal 347-480V - Available with B & K Input Power Designators only	**BK** Black **BZ** Bronze **SV** Silver **WH** White	**F Fuse** - Compatible only with 120V, 277V or 347V (phase to neutral) - Consult factory if fusing is required for 208V, 240V or 480V (phase to phase) - Refer to PML spec sheet for availability with PML options - When code dictates fusing, use time delay fuse **PML Programmable Multi-Level, up to 40' Mounting Height** - Refer to PML spec sheet for details - Intended for downlight applications at 0° tilt **PML2 Programmable Multi-Level, 10-30' Mounting Height** - Refer to PML spec sheet for details - Intended for downlight applications at 0° tilt **Q9/Q6/Q5/Q4/Q3/Q2/Q1 Field Adjustable Output** - Must select Q9, Q6, Q5, Q4, Q3, Q2, or Q1 - Offers full range adjustability - Refer to pages 12-13 for power and lumen values - Available with B & K Input Power Designators only - Not available with PML or PML2 options **R NEMA® 7-Pin Photocell Receptacle** - 7-pin receptacle per ANSI C136.41 - Intended for downlight applications with maximum 45° tilt - Factory connected 0-10V dim leads - 18" (457mm) seven-conductor cord exits luminaire - Requires photocell or shorting cap by others **RL Rotate Left** - LED and optic are rotated to the left - Refer to RR/RL configuration diagram on page 14 for optic directionality - Not for use with symmetric optics **RR Rotate Right** - LED and optic are rotated to the right - Refer to RR/RL configuration diagram on page 14 for optic directionality - Not for use with symmetric optics

* Available with Backlight Shield when ordered with field-installed accessory (see table above)

US: creelighting.com (800) 236-6800
Canada: creelighting-canada.com (800) 473-1234

Product Specifications

CREE TRUEWHITE® TECHNOLOGY

A revolutionary way to generate high-quality white light, Cree TrueWhite® Technology is a patented approach that delivers an exclusive combination of 90+ CRI, beautiful light characteristics and lifelong color consistency, all while maintaining high luminous efficacy – a true no compromise solution.

CONSTRUCTION & MATERIALS

- Slim, low profile design minimizes wind load requirements
- Luminaire housing is rugged die cast aluminum with an integral, weathertight LED driver compartment and high-performance heat sink
- Convenient interlocking mounting method on direct arm mount. Mounting adaptor is rugged die cast aluminum and mounts to 3" (76mm) or larger square or round pole, secured by two 5/16-18 UNC bolts spaced on 2" (51mm) centers
- Mounting for the adjustable arm mount adaptor is rugged die cast aluminum and mounts to 2" (51mm) IP, 2.375" (60mm) O.D. tenon
- Adjustable arm mount can be adjusted 180° in 2.5° increments
- Transportation mount is constructed of 316 stainless steel and mounts to surface with (4) 3/8" fasteners by others
- Trunnion mount is constructed of A500 and A1011 steel and is adjustable from 0-180° in 15° degree increments. Trunnion mount secures to surface with (1) 3/4" bolt or (2) 1/2" or 3/8" bolts
- Includes 18" (340mm) 18/5 or 16/5 cord exiting the luminaire. When ordered with R option, 18" (340mm) 18/7 or 16/7 cord is provided
- Designed for uplight and downlight applications
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver, bronze, black, and white are available
- **Weight:** OSQ-DA: 28.9 lbs. (13.1kg); OSQ-B-AA: 28.4 lbs. (12.9kg); OSQ-M-TSP: 42 lbs. (19.1kg); OSQ-TM: 32.6 lbs. (14.8kg)

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- Designed with 0-10V dimming capabilities. Controls by others
- Refer to Dimming spec sheet for details
- **Maximum 10V Source Current:** 1.0mA
- **Operating Temperature Range:** -40°C - +40°C (-40°F - +104°F)

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Enclosure rated IP66 per IEC 60529 when ordered without R option
- Consult factory for CE Certified products
- Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards with AA, DA, TM, and TSP mounts
- ANSI C136.2 10kV surge protection, tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Meets Buy American requirements within ARRA
- DLC and DLC Premium qualified versions available. Some exceptions apply. Please refer to https://www.designlights.org/search/ for most current information
- RoHS compliant. Consult factory for additional details
- Dark Sky Friendly, IDA Approved when ordered with 30K CCT and direct or transportation mounts only. Please refer to https://www.darksky.org/our-work/lighting/lighting-for-industry/fsa/fsa-products/ for most current information
- ⚠ **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – www.p65warnings.ca.gov

Product Specifications

SYNAPSE® SIMPLYSNAP INTELLIGENT CONTROL

The Synapse SimplySNAP platform is a highly intuitive connected lighting solution featuring zone dimming, motion sensing, and daylight harvesting with utility-grade power monitoring and support of up to 1000 nodes per gateway. The system features a reliable and robust self-healing mesh network with a browser-based interface that runs on smartphones, tablets, and PCs. The Twist-Lock Lighting Controller (TL7-B2) and Site Controller (SS450-002) take the OSQ Series to a new performance plateau, providing extreme energy productivity, code compliance and a better light experience.

Electrical Data*

Input Power Designator	System Watts 120-480V	Total Current (A)					
		120V	208V	240V	277V	347V	480V
B	86	0.73	0.43	0.37	0.32	0.25	0.19
K	130	1.09	0.65	0.56	0.49	0.38	0.28
Z	53**	0.46	0.26	0.22	0.19	N/A	N/A

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V or 347-480V+/-10%
** Available with UL voltage only

OSQ Series Ambient Adjusted Lumen Maintenance[1]

Ambient	Optic	Initial LMF	25K hr Reported[2] LMF	50K hr Reported[2] LMF	75K hr Reported[2]/ Estimated[3] LMF	100K hr Reported[2]/ Estimated[3] LMF
5°C (41°F)	Asymmetric	1.04	1.03	1.01	0.99[2]	0.97[2]
	Symmetric	1.05	1.05	1.05	1.05[3]	1.05[3]
10°C (50°F)	Asymmetric	1.03	1.02	1.00	0.98[2]	0.96[2]
	Symmetric	1.04	1.03	1.03	1.03[3]	1.03[3]
15°C (59°F)	Asymmetric	1.02	1.01	0.99	0.97[2]	0.95[2]
	Symmetric	1.02	1.02	1.02	1.02[3]	1.02[3]
20°C (68°F)	Asymmetric	1.01	1.00	0.98	0.96[2]	0.94[2]
	Symmetric	1.01	1.01	1.01	1.01[3]	1.01[3]
25°C (77°F)	Asymmetric	1.00	0.99	0.97	0.95[2]	0.93[2]
	Symmetric	1.00	1.00	1.00	1.00[3]	1.00[3]

[1] Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors. Please refer to the Temperature Zone Reference Document for outdoor average nighttime ambient conditions.
[2] In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.
[3] Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED.

Accessories

Field-Installed

Backlight Shield
OSQ-BLSMF
– Front facing optics
OSQ-BLSMR
– Rotated optics

Hand-Held Remote
XA-SENSREM
- For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required

Bird Spikes
OSQ-MED-BRDSPK

Shorting Cap
XA-XSLSHRT

Synapse Wireless Control Accessories

Twist-Lock Lighting Controller
TL7-B2
- Suitable for 120-277V (UL) voltage only
- Requires NEMA/ANSI C136.41 7-Pin Dimming Receptacle
- Not for use with PML or Q options
- Provides On/Off switching, dimming, power metering, digital sensor input, and status monitoring of luminaires
- Refer to TL7-B2 spec sheet for details

SimplySNAP Central Base Station
CBSSW-450-002
- Includes On-Site Controller (SS450-002) and 5-button switch
- Indoor and Outdoor rated
- Refer to CBSSW-450-002 spec sheet for details

Synapse Wireless Sensor
WSN-DPM
- Motion and light sensor
- Control multiple zones
- Refer to WSN-DPM spec sheet for details

SimplySNAP On-Site Controller
SS450-002
- Verizon® LTE-enabled
- Designed for indoor applications
- Refer to SS450-002 spec sheet for details

Building Management System (BMS) Gateway
BMS-GW-002
- Required for BACnet integration
- Refer to BMS-GW-002 spec sheet for details

Outdoor Antennas
(Optional, for increased range, 8dB gain)
KIT-ANT420SM
- Kit includes antenna, 20' cable and bracket

KIT-ANT360
- Kit includes antenna, 30' cable and bracket

KIT-ANT600
- Kit includes antenna, 50' cable and bracket
- Refer to Outdoor antenna spec sheet for details

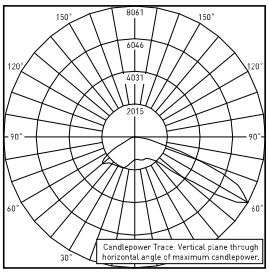
US: creelighting.com (800) 236-6800
Canada: creelighting-canada.com (800) 473-1234

CREE LIGHTING

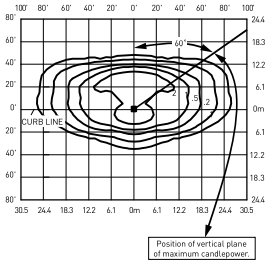
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: https://creelighting.com/products/outdoor/area/osq-series

2ME



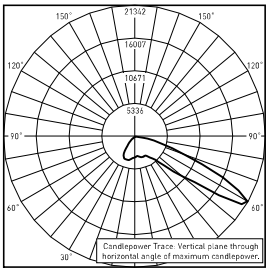
RESTL Test Report #: PL08877-001A
OSQ-A-**-2ME-B-30K-UL
Initial Delivered Lumens: 10,381



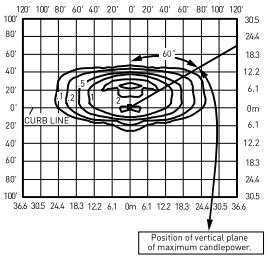
OSQ-A-**-2ME-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,424
Initial FC at grade

Type II Medium Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,738	B2 U0 G2	11,424	B2 U0 G2	9,350	B2 U0 G2	11,648	B2 U0 G2
K	16,022	B3 U0 G3	16,959	B3 U0 G3	14,000	B3 U0 G2	17,291	B3 U0 G3
Z	6,481	B2 U0 G1	6,896	B2 U0 G1	5,750	B1 U0 G1	7,031	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt



CESTL Test Report #: PL07700-001A
OSQ-A-**-2ME-U-57K-UL w/OSQ-BLSLF
Initial Delivered Lumens: 22,822



OSQ-A-**-2ME-B-40K-UL w/OSQ-BLSMF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 8,779
Initial FC at grade

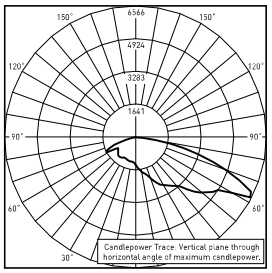
Type II Medium w/BLS Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11
B	8,251	B2 U0 G2	8,779	B2 U0 G2	7,200	B1 U0 G1	8,950	B2 U0 G2
K	12,312	B2 U0 G2	13,032	B2 U0 G2	10,750	B2 U0 G2	13,286	B2 U0 G2
Z	4,980	B1 U0 G1	5,299	B1 U0 G1	4,420	B1 U0 G1	5,402	B1 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: https://creelighting.com/products/outdoor/area/osq-series

3ME



RESTL Test Report #: PL08876-001A
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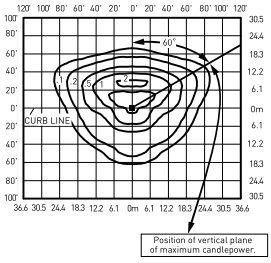
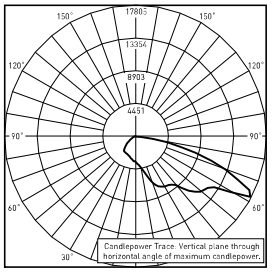
Initial Delivered Lumens: 10,421



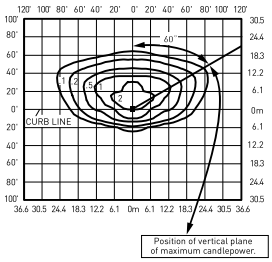
OSQ-A-**-3ME-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,424
Initial FC at grade

Type III Medium Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,738	B3 U0 G3	11,424	B3 U0 G3	9,350	B2 U0 G2	11,648	B3 U0 G3
K	16,022	B3 U0 G3	16,959	B3 U0 G3	14,000	B3 U0 G3	17,291	B3 U0 G3
Z	6,481	B2 U0 G2	6,896	B2 U0 G2	5,750	B2 U0 G2	7,031	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt



CESTL Test Report #: PL07699-001A
OSQ-A-**-3ME-U-57K-UL w/OSQ-BLSLF
Initial Delivered Lumens: 23,601



OSQ-A-**-3ME-B-40K-UL w/OSQ-BLSMF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 9,019
Initial FC at grade

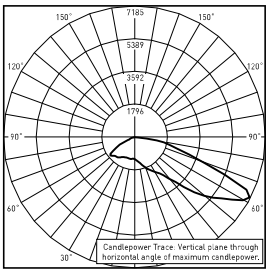
Type III Medium w/BLS Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	8,477	B1 U0 G2	9,019	B1 U0 G2	7,400	B1 U0 G2	9,196	B1 U0 G2
K	12,649	B2 U0 G2	13,389	B2 U0 G2	11,050	B2 U0 G2	13,650	B2 U0 G2
Z	5,117	B1 U0 G1	5,444	B1 U0 G1	4,540	B1 U0 G1	5,551	B1 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

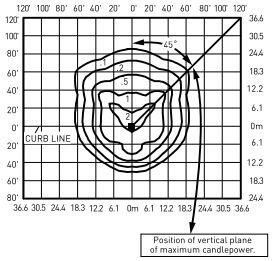
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: https://creelighting.com/products/outdoor/area/osq-series

4ME



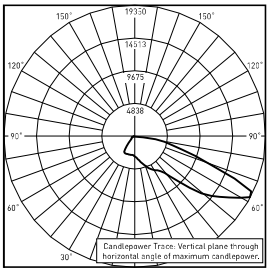
RESTL Test Report #: PL08878-001A
OSQ-A-**-4ME-B-30K-UL
Initial Delivered Lumens: 10,230



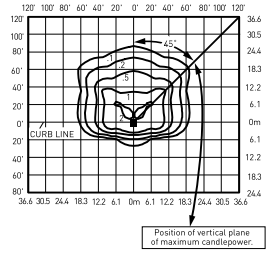
OSQ-A-**-4ME-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,424
Initial FC at grade

Type IV Medium Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,738	B2 U0 G2	11,424	B2 U0 G2	9,350	B2 U0 G2	11,648	B2 U0 G2
K	16,022	B3 U0 G3	16,959	B3 U0 G3	14,000	B3 U0 G3	17,291	B3 U0 G3
Z	6,481	B2 U0 G2	6,896	B2 U0 G2	5,750	B2 U0 G1	7,031	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt



CESTL Test Report #: PL07692-001A
OSQ-A-**-4ME-U-57K-UL w/OSQ-BLSLF
Initial Delivered Lumens: 22,793



OSQ-A-**-4ME-B-40K-UL w/OSQ-BLSMF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 8,779
Initial FC at grade

Type IV Medium w/BLS Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	8,251	B1 U0 G2	8,779	B1 U0 G2	7,200	B1 U0 G2	8,950	B1 U0 G2
K	12,312	B2 U0 G2	13,032	B2 U0 G2	10,750	B2 U0 G2	13,286	B2 U0 G2
Z	4,980	B1 U0 G1	5,299	B1 U0 G1	4,420	B1 U0 G1	5,402	B1 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

Photometry

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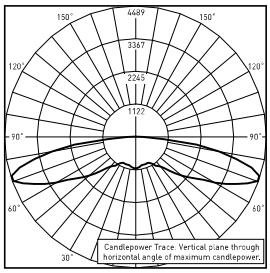
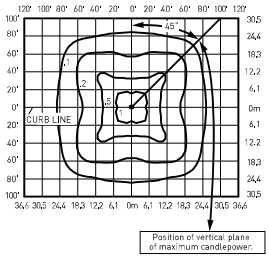
5ME



RESTL Test Report #: PL08534-001B
OSQ-A-**-5ME-B-40K-UL
Initial Delivered Lumens: 10,519

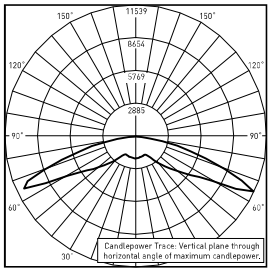


OSQ-A-**-5ME-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 10,867
Initial FC at grade

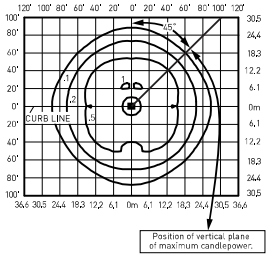
Type V Medium Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,232	B4 U0 G3	10,867	B4 U0 G3	10,000	B4 U0 G3	11,056	B4 U0 G3
K	15,063	B4 U0 G4	15,999	B4 U0 G4	14,925	B4 U0 G4	16,277	B4 U0 G4
Z	5,257	B3 U0 G3	6,086	B3 U0 G3	6,175	B3 U0 G3	6,192	B3 U0 G3

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

5SH



CESTL Test Report #: PL10754-001A
OSQ-A-**-5SH-U-40K-UL
Initial Delivered Lumens: 25,679



OSQ-A-**-5SH-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,478
Initial FC at grade

Type V Short Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,806	B4 U0 G2	11,478	B4 U0 G2	10,575	B4 U0 G2	11,678	B4 U0 G2
K	15,909	B4 U0 G3	16,897	B4 U0 G3	15,800	B4 U0 G3	17,191	B4 U0 G3
Z	5,552	B3 U0 G1	6,428	B3 U0 G2	6,525	B3 U0 G2	6,539	B3 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
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Photometry

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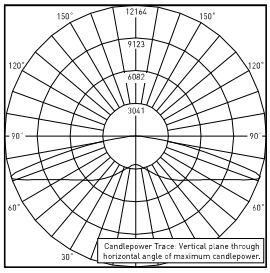
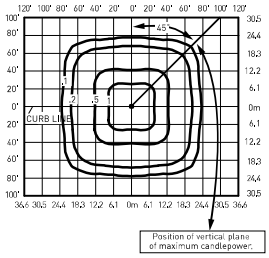
5SQ



RESTL Test Report #: PL14561-001B
OSQ-A-**-5SQ-U-57K-UL
Initial Delivered Lumens: 28,716



OSQ-A-NM-5SQ-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,478
Initial FC at grade

Type V Square Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
B	10,806	B3 U0 G2	11,478	B4 U0 G2	10,575	B3 U0 G2	11,678	B4 U0 G2
K	15,909	B4 U0 G2	16,897	B4 U0 G2	15,800	B4 U0 G2	17,191	B4 U0 G2
Z	5,552	B3 U0 G1	6,428	B3 U0 G1	6,525	B3 U0 G1	6,539	B3 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
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Photometry

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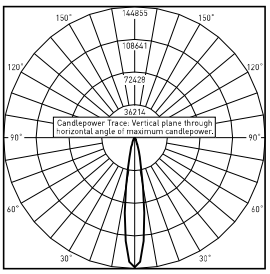
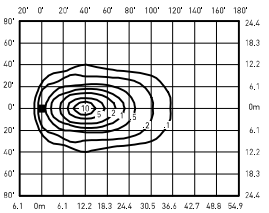
15D



CESTL Test Report #: PL07689-001A
OSQ-A-**-15D-U-30K-UL
Initial Delivered Lumens: 23,254



OSQ-A-**-15D-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

15° Flood Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
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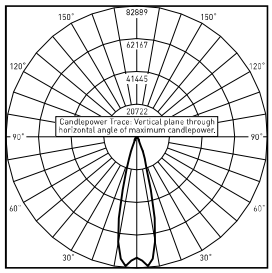
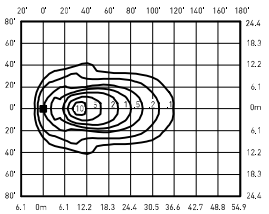
25D



CESTL Test Report #: PL07696-001A
OSQ-A-**-25D-U-30K-UL
Initial Delivered Lumens: 23,265



OSQ-A-**-25D-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

25° Flood Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
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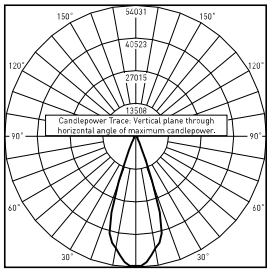
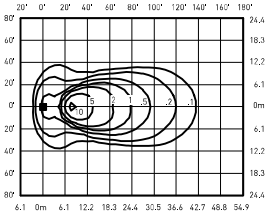
40D



CESTL Test Report #: PL07697-001A
OSQ-A-**-40D-U-30K-UL
Initial Delivered Lumens: 22,943



OSQ-A-**-40D-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

40° Flood Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

Photometry

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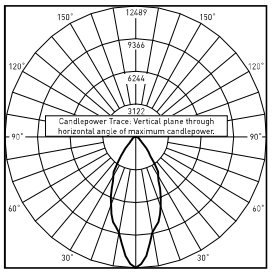
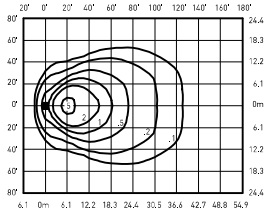
60D



CESTL Test Report #: PL08100-001B
OSQ-A-**-60D-B-30K-UL
Initial Delivered Lumens: 10,079



OSQ-A-**-60D-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

60° Flood Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
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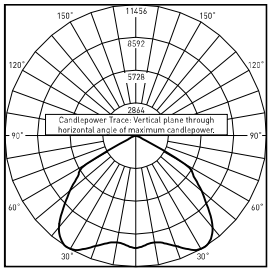
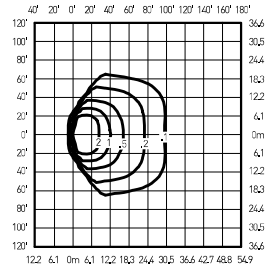
120D



RESTL Test Report #: PL15731-001A
OSQ-A-**-120D-U-40K-UL
Initial Delivered Lumens: 25,501

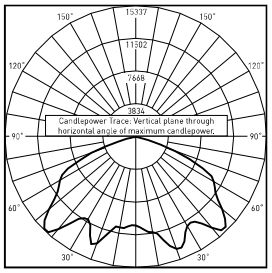


OSQ-A-**-120D-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

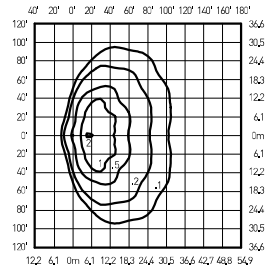
Type 120° Flood Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

WSN



CESTL Test Report #: PL07695-001A
OSQ-A-**-WSN-U-30K-UL
Initial Delivered Lumens: 23,116



OSQ-A-**-WSN-B-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 11,478
Initial FC at grade

Wide Sign Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
B	10,806	11,478	10,575	11,678
K	15,909	16,897	15,800	17,191
Z	5,552	6,428	6,525	6,539

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

Luminaire EPA

Adjustable Arm Mount – OSQ-B-AA Weight: 28.4 lbs. (12.9kg)							
Single	2 @ 180˚	2 @ 90˚	3 @ 90˚	3 @ 120˚	3 @ 180˚	4 @ 180˚	4 @ 90˚
Tenon Configuration (0˚-80˚ Tilt); If used with Cree Lighting tenons, please add tenon EPA with Luminaire EPA							
 PB-1A*; PT-1; PW-1A3**	 PB-2A*; PB-2R2.375; PD-2A4(180); PT-2(180); PW-2A3**	 PB-2A*; PD-2A4(90); PT-2(90)	 PB-3A*; PD-3A4(90); PT-3(90)	 PB-3A*; PT-3(120)	 PB-3A*; PB-3R2.375	 PB-4A*(180)	 PB-4A*(90); PB-4R2.375; PD-4A4(90); PT-4(90)
0˚ Tilt							
0.74	1.48	1.19	1.93	1.63	3.33	4.66	2.38
10˚ Tilt							
0.75	1.48	1.49	2.23	2.15	4.22	5.84	2.98
20˚ Tilt							
1.12	1.48	1.86	2.60	2.85	5.31	7.32	3.72
30˚ Tilt							
1.46	1.48	2.20	2.94	3.56	6.34	8.68	4.40
45˚ Tilt							
1.96	1.96	2.69	3.43	4.54	7.83	10.68	5.38
60˚ Tilt							
2.33	2.33	3.07	3.81	5.11	8.94	12.16	6.14
70˚ Tilt							
2.49	2.49	3.23	3.97	5.11	9.43	12.80	6.46
80˚ Tilt							
2.58	2.58	3.32	4.06	5.11	9.71	13.16	6.64
Tenon Configuration (90˚ Tilt); If used with Cree Lighting tenons, please add tenon EPA with Luminaire EPA							
PB-1A*; PT-1; PW-1A3**	PB-2A*; PB-2R2.375; PD-2A4(180); PT-2(180); PW-2A3**	PB-2A*	PB-3A*	PB-3A*; PT-3(120)	PB-3A*; PB-3R2.375	PB-4A*(180)	PB-4A*(90); PB-4R2.375
90˚ Tilt							
2.61	2.61	4.44	6.05	5.11	9.79	13.28	10.39

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation
** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")

Tenon EPA

Part Number	EPA
PB-1A*	None
PB-2A*	0.82
PB-3A*	1.52
PB-4A*(180)	2.22
PB-4A*(90)	1.11
PB-2R2.375	0.92
PB-3R2.375	1.62
PB-4R2.375	2.32
PD Series Tenons	0.09
PT Series Tenons	0.10
PW-1A3**	0.47
PW-2A3**	0.94
WM-2	0.08
WM-4	0.25
WM-DM	None

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation
** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")

Tenons and Brackets‡ (must specify color)

Square Internal Mount Vertical Tenons (Steel)
- Mounts to 3-6" (76-152mm) square aluminum or steel poles

PB-1A* – Single
PB-2A* – 180˚ Twin
PB-3A* – 180˚ Triple
PB-4A*(90) – 90˚ Quad
PB-4A*(180) – 180˚ Quad

Square Internal Mount Horizontal Tenons (Aluminum)
- Mounts to 4" (102mm) square aluminum or steel poles

PD-2A4(90) – 90˚ Twin
PD-2A4(180) – 180˚ Twin
PD-3A4(90) – 90˚ Triple
PD-4A4(90) – 90˚ Quad

Wall Mount Brackets
- Mounts to wall or roof

WM-2 – Horizontal for OSQ-B-AA mount
WM-4 – L-Shape for OSQ-B-AA mount
WM-DM – Plate for OSQ-DA mount

Round External Mount Vertical Tenons (Steel)
- Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons

PB-2R2.375 – Twin
PB-3R2.375 – Triple
PB-4R2.375 – Quad

Round External Mount Horizontal Tenons (Aluminum)
- Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons
- Mounts to square pole with PB-1A* tenon

PT-1 – Single (Vertical)
PT-2(90) – 90˚ Twin
PT-2(180) – 180˚ Twin
PT-3(90) – 90˚ Triple
PT-3(120) – 120˚ Triple
PT-4(90) – 90˚ Quad

Mid-Pole Bracket
- Mounts to square pole

PW-1A3** – Single
PW-2A3** – Double

Ground Mount Post
- For ground-mounted flood luminaires

PGM-1 - for OSQ-B-AA mount

‡ Refer to the Bracket and Tenons spec sheet for more details

Luminaire EPA

Direct Arm Mount – OSQ-DA Weight: 28.9 lbs. (13.1kg)					
Single	2 @ 180˚	2 @ 90˚	3 @ 90˚	3 @ 120˚	4 @ 90˚
					
0.74	1.48	1.19	1.93	1.63	2.38

Direct Mount Configurations

Compatibility with OSQ-DA Direct Mount Bracket					
Input Power Designator	2 @ 90˚	2 @ 180˚	3 @ 90˚	3 @ 120˚	4 @ 90˚
3" Square					
B, K & Z	N/A	✓	N/A	N/A	N/A
3" Round					
B, K & Z	N/A	✓	N/A	N/A	N/A
4" Square					
B, K & Z	✓	✓	✓	N/A	✓
4" Round					
B, K & Z	✓	✓	✓	✓	✓
5" Square					
B, K & Z	✓	✓	✓	N/A	✓
5" Round					
B, K & Z	✓	✓	✓	✓	✓
6" + Square					
B, K & Z	✓	✓	✓	N/A	✓
6" + Round					
B, K & Z	✓	✓	✓	✓	✓

Luminaire EPA

Trunnion Mount – OSQ-TM Weight: 32.6 lbs. (14.8kg)
Single
0˚ Tilt
0.75
15˚ Tilt
0.99
30˚ Tilt
1.57
45˚ Tilt
2.07
60˚ Tilt
2.46
75˚ Tilt
2.67
90˚ Tilt
2.33

Field Adjustable Output (Q9/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the OSQ area luminaires to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected Q setting and will be fully adjustable between the nine settings.

Q Option Power & Lumen Data – Designator B

Q Option Setting	CCT/CRI	System Watts	Lumen Values						Optics Qualified on DLC QPL	
		120-480V	Asymmetric	5ME	5SH, 5SQ & Floods	2ME w/ BLS	3ME w/ BLS	4ME w/BLS	Standard	Premium
Q9 (Full Power)	30K (70 CRI)	86	10,738	10,232	10,806	8,251	8,477	8,251	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		11,424	10,867	11,478	8,779	9,019	8,779	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		9,350	10,000	10,575	7,200	7,400	7,200	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		11,648	11,056	11,678	8,950	9,196	8,950	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q6	30K (70 CRI)	77	9,449	9,004	9,509	7,261	7,460	7,261	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		10,053	9,563	10,101	7,726	7,937	7,726	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		8,350	8,950	9,450	6,425	6,600	6,425	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		10,250	9,729	10,277	7,876	8,092	7,876	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q5	30K (70 CRI)	72	8,913	8,492	8,969	6,848	7,036	6,848	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		9,482	9,020	9,527	7,287	7,486	7,287	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		7,525	8,050	8,525	5,775	5,950	5,775	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		9,668	9,176	9,693	7,429	7,633	7,429	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q4	30K (70 CRI)	62	7,731	7,367	7,780	5,941	6,103	5,941	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		8,225	7,824	8,264	6,321	6,494	6,321	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		6,575	7,025	7,425	5,050	5,175	5,050	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		8,387	7,960	8,408	6,444	6,621	6,444	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q3	30K (70 CRI)	53	6,550	6,241	6,592	5,033	5,171	5,033	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		6,969	6,629	7,002	5,355	5,502	5,355	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		5,575	5,975	6,325	4,290	4,410	4,290	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		7,105	6,744	7,124	5,460	5,610	5,460	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q2	30K (70 CRI)	45	5,476	5,218	5,511	4,208	4,323	4,208	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		5,826	5,542	5,854	4,477	4,600	4,477	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		4,550	4,890	5,175	3,500	3,590	3,500	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		5,940	5,639	5,956	4,565	4,690	4,565	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q1	30K (70 CRI)	34	4,188	3,990	4,214	3,218	3,306	3,218	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		4,455	4,238	4,476	3,424	3,517	3,424	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		3,500	3,770	3,980	2,690	2,760	2,690	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		4,543	4,312	4,554	3,491	3,586	3,491	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN

Field Adjustable Output (Q9/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the OSQ area luminaires to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected Q setting and will be fully adjustable between the nine settings.

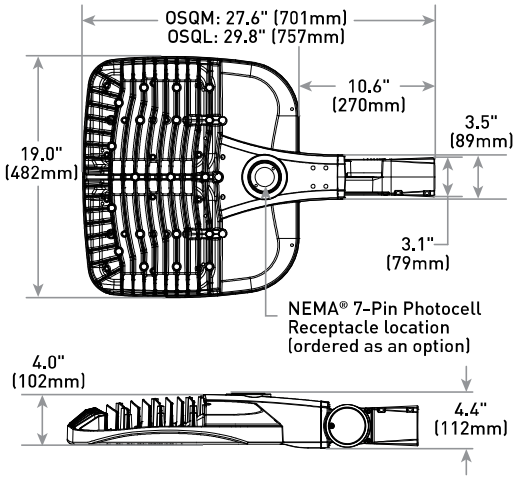
Q Option Power & Lumen Data – Designator K

Q Option Setting	CCT/CRI	System Watts	Lumen Values						Optics Qualified on DLC QPL	
		120-480V	Asymmetric	5ME	5SH, 5SQ & Floods	2ME w/BLS	3ME w/BLS	4ME w/BLS	Standard	Premium
Q9 (Full Power)	30K (70 CRI)	130	16,022	15,063	15,909	12,312	12,649	12,312	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		16,959	15,999	16,897	13,032	13,389	13,032	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		14,000	14,925	15,800	10,750	11,050	10,750	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		17,291	16,277	17,191	13,286	13,650	13,286	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q6	30K (70 CRI)	117	14,099	13,255	14,000	10,835	11,131	10,835	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		14,924	14,079	14,869	11,468	11,782	11,468	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		12,500	13,350	14,100	9,600	9,875	9,600	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		15,216	14,324	15,128	11,692	12,012	11,692	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q5	30K (70 CRI)	110	13,298	12,502	13,204	10,219	10,499	10,219	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		14,076	13,279	14,025	10,817	11,113	10,817	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		11,250	12,050	12,725	8,650	8,900	8,650	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		14,352	13,510	14,269	11,027	11,330	11,027	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q4	30K (70 CRI)	93	11,536	10,845	11,454	8,865	9,107	8,865	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		12,210	11,519	12,166	9,383	9,640	9,383	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		9,825	10,525	11,100	7,550	7,750	7,550	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		12,450	11,719	12,378	9,566	9,828	9,566	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q3	30K (70 CRI)	80	9,773	9,188	9,704	7,510	7,716	7,510	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		10,345	9,759	10,307	7,950	8,167	7,950	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		8,350	8,950	9,475	6,425	6,600	6,425	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		10,548	9,929	10,487	8,104	8,327	8,104	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q2	30K (70 CRI)	67	8,171	7,682	8,114	6,279	6,451	6,279	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		8,649	8,159	8,617	6,646	6,828	6,646	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		6,825	7,325	7,725	5,250	5,375	5,250	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		8,818	8,301	8,767	6,776	6,962	6,776	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q1	30K (70 CRI)	51	6,249	5,875	6,205	4,802	4,933	4,802	5ME	2ME, 3ME, 4ME, 5SH, 15D, 25D, 40D, 60D, WSN
	40K (70 CRI)		6,614	6,240	6,590	5,082	5,222	5,082	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		5,250	5,650	5,975	4,030	4,150	4,030	2ME, 3ME, 4ME	5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	57K (70 CRI)		6,743	6,348	6,704	5,182	5,324	5,182	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN

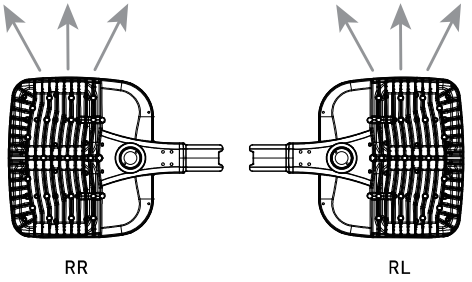
AA Mount



Weight
28.4 lbs. (12.9kg)



RR/RL Configuration

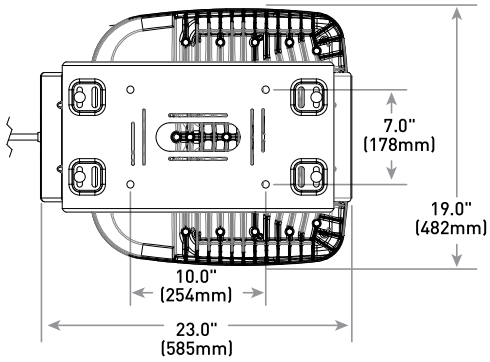


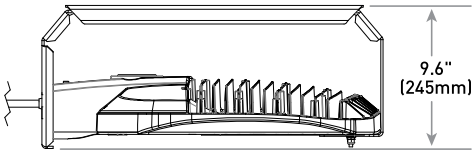
TSP Mount



Weight
42.0 lbs. (19.1kg)

OSQ Large luminaire shown.



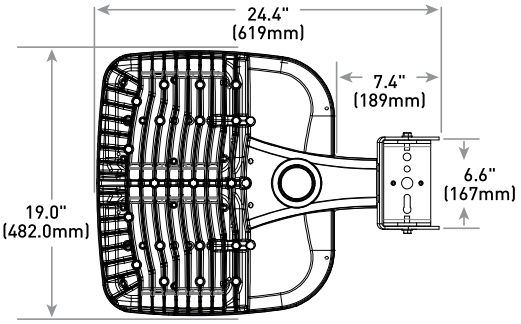


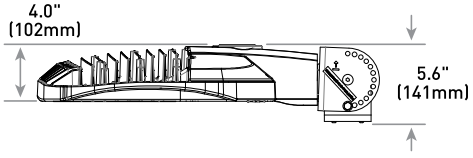
TM Mount



Weight
32.6 lbs. (14.8kg)

OSQ Large luminaire shown.





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CREE LIGHTING
A COMPANY OF *IDEAL INDUSTRIES, INC.*

OWP-FC-201-LED

LED Medium Full Cut-Off Wall Pack Series

up to 61 Wattage / up to 6000 Lumens

Catalog Number:	OWP-FC-201-LED-4500L-DIM10-MVOLT-40K-BZ
Project Name:	Harris Teeter
Note:	**Type:** O1



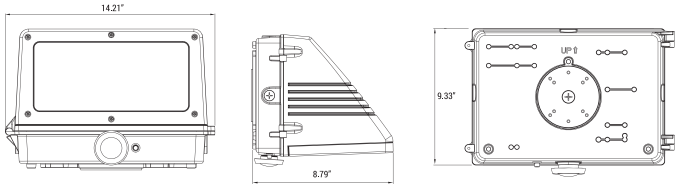
APPLICATIONS:

This rugged medium size full cut-off LED wall pack provides long lasting, energy efficient lighting with a variety of options to customize fixture performance to the required task. Easily mounts to building and is ideal for industrial, educational, multi-family, institutional, and government applications.

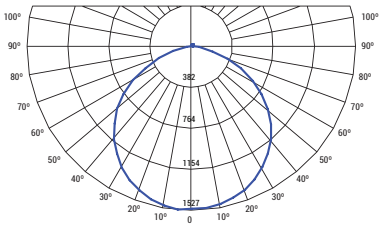
FEATURES:

- Full cut-off and compliance to Dark Sky requirement
- Lumen output from 4900-6900lm with efficacy up to 93lm/W
- 43W-63W power consumption, to replace 150W-250W MH
- Type II distribution with frosted tempered flat glass integrated lens
- Operating temperature is -40ºC to 50ºC (-40ºF to 122ºF)
- Dimmable
- UL/cUL wet location
- DLC qualified**

DIMENSION:



PHOTOMETRICS:



B	U	G
2	1	1

SPECIFICATIONS:

LUMENS	4900 / 6900 lumens
WATTAGE	46W / 61W
CCT	40K, 50K
CRI	80
LIGHT EFFICIENCY	100 lumens/watt
VOLTAGE	120-277 VAC
POWER FREQUENCY	50/60 Hz
FINISH	Bronze
APPLICABLE ENVIRONMENT	Dry/Damp/Wet location
WORKING TEMPERATURE	-40ºC to 50ºC

DLC QPL LISTED · c UL us LISTED · FOR WET LOCATION · 5 YEARS LIMITED WARRANTY · Sky Dark Friendly · PROUDLY ASSEMBLED in AMERICA · DIMMABLE 0-10V DIMMING

Ordering Guide > Example: **OWP-FC-201-LED-6000L-MVOLT-40K-BZ**

OWP-FC-201-LED						
SERIES	**PERFORMANCE**	**VOLTAGE**	**CCT**	**FINISH**	**EMERGENCY**	**ACCESSORIES**
OWP-FC-201-LED	**4500L** - 4900 lumens **6000L** - 6900 lumens	**MVOLT** - 120-277V	**40K** - 4000K **50K** - 5000K	Bronze	**O-EMG-LED**	**PHC** - Photocell **FSP-305RC** - Wattstopper Motion Sensor
	* For more lumen package option, consult factory	* Available with **347V**	* For more CCT option, consult factory			

** DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.



WST LED
Architectural Wall Sconce

Catalog Number	WST LED P1 40K-VW MVOLT DDBXD
Notes	Harris Teeter
Type	O2

Hit the Tab key or mouse over the page to see all interactive elements.

Introduction

The WST LED is designed with the specifier in mind. The traditional, trapezoidal shape offers a soft, non-pixilated light source for end-user visual comfort. For emergency egress lighting, the WST LED offers six battery options, including remote. For additional code compliance and energy savings, there is also a Bi-level motion sensor option. With so many standard and optional features, three lumen packages, and high LPW, the WST LED is your "go to" luminaire for most any application.

Specifications

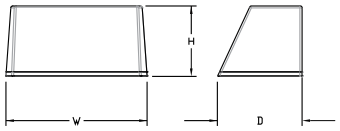
Luminaire

Height: 8-1/2" *(21.59 cm)*

Width: 17" *(43.18 cm)*

Depth: 10-3/16" *(25.9 cm)*

Weight: 20 lbs *(9.1 kg)*

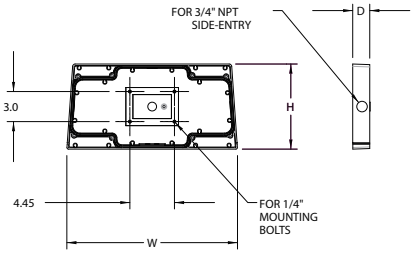


Optional Back Box (BBW)

Height: 4" *(10.2 cm)*

Width: 5-1/2" *(14.0 cm)*

Depth: 1-1/2" *(3.8 cm)*



Ordering Information

EXAMPLE: WST LED P1 40K VF MVOLT DDBTXD

WST LED					
Series	**Performance Package**	**Color temperature**	**Distribution**	**Voltage**	**Mounting**
WST LED	P1 1,500 Lumen package P2 3,000 Lumen package P3 6,000 Lumen package	27K 2700 K 30K 3000 K 40K 4000 K 50K 5000 K	VF Visual comfort forward throw VW Visual comfort wide	MVOLT[1] 120[1] 208[1] 240[1] 277[1] 347 480	**Shipped included** (blank) Surface mounting bracket **Shipped separately** BBW Surface-mounted back box[2] PBBW Premium surface-mounted back box[2,3]

Options			
PE	Photoelectric cell, button type	E7WC	Emergency battery backup (cold, 7W)[8,9]
PER	NEMA twist-lock receptacle only	E7WHR	Remote emergency battery backup (remote 7W)[8,10]
PER5	Five-wire receptacle only	E20WH	Emergency battery backup (20W)[8,11]
PER7	Seven-wire receptacle only	E20WC	Emergency battery backup (cold, 20W)[8,9,11]
DMG	0-10V dimming extend out back of honsing for external control (no control)[4]	E23WHR	Remote emergency battery backup (remote 20W)[8,10]
PIR	Motion/Ambient Light Sensor, 8-15' mounting height[5]	LCE	Left side conduit entry[12]
PIR1FC3V	Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc[5]	RCE	Right side conduit entry[12]
PIRH	180° motion/ambient light sensor, 15-30' mounting height[5]	**Shipped separately**	
PIRH1FC3V	Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc[5]	RBPW	Retrofit back plate[2]
SF	Single fuse (120, 277, 347V)[6]	VG	Vandal guard[13]
DF	Double fuse (208, 240, 480V)[6]	WG	Wire guard[13]
DS	Dual switching[7]		
E7WH	Emergency battery backup (7W)[8]		

Finish *(required)*	
DDBXD	Dark bronze
DBLXD	Black
DNAXD	Natural aluminum
DWHXD	White
DSSXD	Sandstone
DDBTXD	Textured dark bronze
DBLBXD	Textured black
DNATXD	Textured natural aluminum
DWHGXD	Textured white
DSSTXD	Textured sandstone

Accessories

Ordered and shipped separately.

WSTVCPBBW DDBXD U	Premium Surface - mounted back box
WSBBW DDBTX U	Surface - mounted back box
RBPW DDBXD U	Retrofit back plate

NOTES

1 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only. when ordering with button type photocell (PE), fusing (SF, DF), or dual switching (DS).
2 Also available as a separate accessory; see accessories information.
3 Top conduit entry standard.
4 Not available with E7WH, E7WC, E7WHR, E20WC, E20WH, or E23WHR. Not available with PER5 & PER7.
5 Not available with PE, PER, PER5, PER7, VG or WG.
6 Not available with MVOLT option. Button photocell (PE) can be ordered with a dedicated voltage option. Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
7 Not available with E7WH, E7WC, E7WHR, E20WC, E20WH, or E23WHR. Used with inverter system. Not available with 347/480V. Not available with PE, PER, PER5 & PER7.
8 Not available with 347/480V.
9 Battery pack rated for -20° to 40°C.
10 Comes with PBBW.
11 Warranty period is 3-years.
12 Not available with BBW.
13 Must order with fixture; not an accessory.

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Emergency Battery Operation

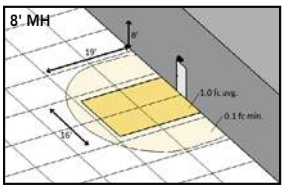
The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product.

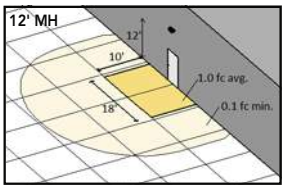
All emergency backup configurations include an independent secondary driver with an integral relay to immediately detect AC power loss, meeting interpretations of NFPA 70/NEC 2008 - 700.16

The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time supply power is lost, per International Building Code Section 1006 and NFPA 101 Life Safety Code Section 7.9, provided luminaires are mounted at an appropriate height and illuminate an open space with no major obstructions.

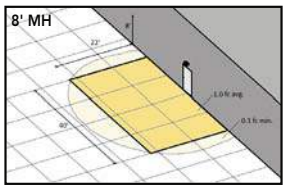
The examples below show illuminance of 1 fc average and 0.1 fc minimum of the P1 power package and VF distribution product in emergency mode.

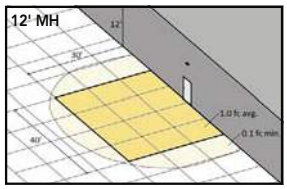
10' x 10' Gridlines
8' and 12' Mounting Height





WST LED P1 27K VF MVOLT E7WH





WST LED P2 40K VF MVOLT E20WH

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts.

Performance Package	System Watts (MVOLT[1])	Dist. Type	27K (2700K, 70 CRI)					30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
			Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	12W	VF	1,494	0	0	0	125	1,529	0	0	0	127	1,639	0	0	0	137	1,639	0	0	0	137
		VW	1,513	0	0	0	126	1,548	0	0	0	129	1,660	0	0	0	138	1,660	0	0	0	138
P2	25W	VF	3,162	1	0	1	126	3,236	1	0	1	129	3,468	1	0	1	139	3,468	1	0	1	139
		VW	3,202	1	0	0	128	3,277	1	0	0	131	3,512	1	0	0	140	3,512	1	0	0	140
P3	50W	VF	6,023	1	0	1	120	6,164	1	0	1	123	6,607	1	0	1	132	6,607	1	0	1	132
		VW	6,100	1	0	1	122	6,242	1	0	1	125	6,691	1	0	1	134	6,691	1	0	1	134

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.02
20°C	68°F	1.01
25°C	**77°F**	**1.00**
30°C	86°F	0.99
40°C	104°F	0.98

Projected LED Lumen Maintenance

Values calculated according to IESNA TM-21-11 methodology and valid up to 40°C.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.95	>0.92	>0.87

Electrical Load

Performance package	System Watts	Current (A)					
		120	208	240	277	347	480
P1	11	0.1	0.06	0.05	0.04	---	---
	14	---	---	---	---	0.04	0.03
P1 DS	14	0.12	0.07	0.06	0.06	---	---
P2	25	0.21	0.13	0.11	0.1	---	---
	30	---	---	---	---	0.09	0.06
P2 DS	25	0.21	0.13	0.11	0.1	---	---
P3	50	0.42	0.24	0.21	0.19	---	---
	56	---	---	---	---	0.16	0.12
P3 DS	52	0.43	0.26	0.23	0.21	---	---

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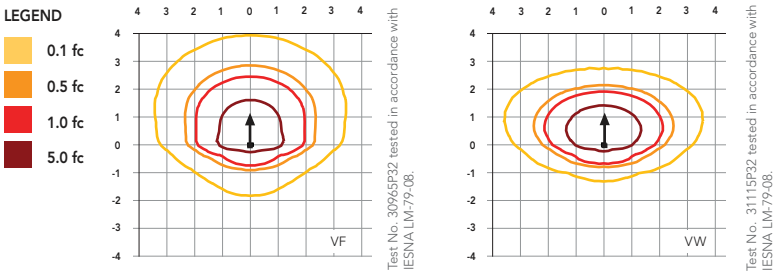
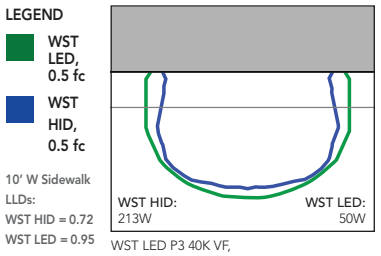
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's WST LED homepage.

Isofootcandle plots for the WST LED P3 40K VF and VW. Distances are in units of mounting height (10').



Distribution overlay comparison to 175W metal halide.



WST LED P3 40K VF,
WST 175M FT Probe, 12' Mounting Ht

FEATURES & SPECIFICATIONS

INTENDED USE
The classic architectural shape of the WST LED was designed for applications such as hospitals, schools, malls, restaurants, and commercial buildings. The long life LEDs and driver make this luminaire nearly maintenance-free.

CONSTRUCTION
The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP65 rating for the luminaire.

FINISH
Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS
Well crafted reflector optics allow the light engine to be recessed within the luminaire, providing visual comfort, superior distribution, uniformity, and spacing in wall-mount applications. The WST LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL
Light engine(s) consist of 98 high-efficacy LEDs mounted to a metal core circuit board and integral aluminum heat sinks to maximize heat dissipation and promote long life (100,000 hrs at 40°C, L87). Class 2 electronic driver has a power factor >90%, THD <20%. Easily-serviceable surge protection device meets a minimum Category B (per ANSI/IEEE C62.41.2).

INSTALLATION
A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections.

LISTINGS
CSA certified to U.S. and Canadian standards. Luminaire is IP65 rated. PIR and back box options are rated for wet location. Rated for -30°C to 40°C ambient.

DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

WARRANTY
5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

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HH8-LED

8" Architectural High Lumen LED Downlight

8"





HH8-8501
Flanged Downlight



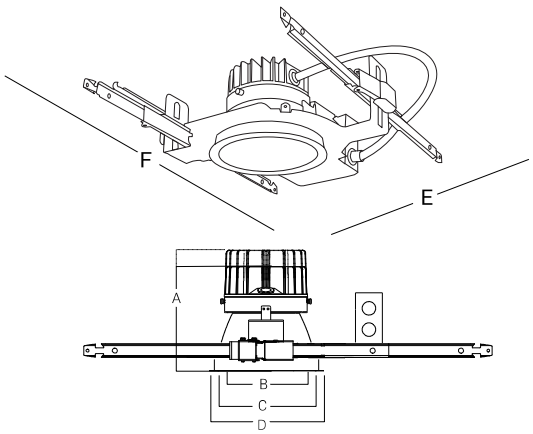
HH8-8577
Flanged Double Wall Wash



HH8-TL-8507
Trimless Wall Wash

REFLECTOR/ FLANGE COLORS





A 900L to 4000L: Height = 7-1/8"
A 6000L to 8000L: Height =10-5/8"
B: Trim Aperture = 7-15/16"
C: Cut-Out = 8-11/32"
D: Trim Outside Dia = 9-1/8"
E: Width = 16-1/8"
F: Length = 20-33"

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
8000	7948	79 W
6000	6542	76 W
4000	4733	49 W
3000	3584	44 W
2000	2430	28 W
1500	1809	22 W
1200	1468	16 W
900	1113	12 W

Based on 4000K, 90+CRI with semi-specular chrome reflector.
Actual wattage may vary +/-5%

FEATURES

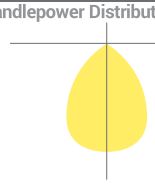
A highly sustainable and ultra-efficient architectural LED downlight that provides even, glare-free illumination. Available in a range of finishes, distributions, and lumen packages, it is ideally suited for use in corporate office space, hospitality, healthcare, commercial, academic, churches and retail.

OPTICS AND REFLECTOR

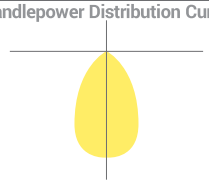
The reflector has a 45° visual cutoff, and is shipped standard with a Solite lens in a smooth frosted finish. Spun from 0.05" thick aluminum, with a 1-step anodized finish, and available in different colors or custom RAL finishes. Reflector flange options include self-flanged and white painted flange. Various distribution options are available, and all optics are field changeable.

LUMENS	900, 1200, 1500, 2000, 3000, 4000, 6000, 8000 (Custom lumen packages available)
CCT & DYNAMIC PLATFORMS	22K, 27K, 30K, 35K, 40K, 50K, Tunable White, Dims to Warm, RGB + White
CRI	90+ Standard, 98+ Optional
COLOR QUALITY	2 Step MacAdam Ellipse
DISTRIBUTIONS	WD (Wide Distribution), MD (Medium Distribution) and ND (Narrow Distribution)
TRIM OPTIONS	Downlight, Wall Wash, Double Wall Wash, Wet Location
REFLECTOR COLORS	CL (Semi-Specular Chrome), SHZ (Low Iridescent Satin Haze), WT (Wheat), W (White), MB (Black)
FLANGE COLORS	Self-Flanged WH (White), SCH (Semi-Specular Chrome), SHZ (Low Iridescent Satin Haze), BK (Black)
DIMMING	0-10V Flicker Free 1% Dimming Standard (DIM10), LUTH, LUTFTB, LUT2W, ELDO10.1, ELDODMX.1, ELDODALI.1, DIMTR
EMERGENCY	10W - Up to 1000L Output (Bodine BSL310) 20W - Up to 2000L Output (Bodine BSL20)
LIFETIME	L70 at 102,000 Hours
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21

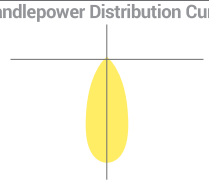
WD: Wide
Candlepower Distribution Curve



MD: Medium
Candlepower Distribution Curve



ND: Narrow
Candlepower Distribution Curve



Reference IES files for additional distribution curve information.

Due to the changes of constant improvement in LED technology, all details are subject to change without notice. Consult factory for up to date information.
RS190627/NS190711/ BB190711

THERMAL MANAGEMENT SYSTEM

Passive cooling Diecast Aluminum Heat Sink, LED light engine and driver are replaceable, upgradeable, and can be accessed from below the ceiling. The consistency in the quality of light is delivered with precision performance by the use of a unique locking mechanism that aligns the reflector with the light engine.

MOUNTING FRAME & BRACKETS

The downlight mounting frame is a fabricated assembly constructed of 16-gauge steel, with C-channel mounting brackets, included. The versatility of the mounting brackets allow for an adjustability of up to 28" horizontally, and 2-3/4" vertically, locking into place. With the added die-formed construction of the mounting frame, it provides maximum heat dissipation and rust protection.

DRIVER ELECTRICAL INFORMATION

The LED driver is rated for 50 to 60Hz at 120V/277V, also available in 347V input, produces less than 20%THD, has a power factor between 90% and 100%, and is thermally protected for additional safety. Junction box and Driver can be accessed from below the ceiling and above the ceiling. Junction Box is Listed for through branch circuit wiring.

DIMMING & DRIVER INFORMATION

DIM10 - 0-10V dimming on either MVOLT 120, 277 or 347V. Dimmable down to 1% of initial lumens, standard.
DIMTR - Triac & Electronic low voltage dimming. Available in 120V, and up to 3000 lumens only.
LUT2W - Lutron LTEA2W Hi-Lume 1%. 2-wire LED Driver Forward Phase Control, 1% dimming in 120V only. Available on all luminaires up to 3000 lumens.
LUTH - Lutron LDE1 Hi-Lume Eco System. 1% dimming with Soft in Fade to Black dimming technology. Available on all luminaires up to 3000 lumens.
LUTFB - Lutron PEQ0 Hi-Lume Premier Eco System. 0.1% dimming with Soft in Fade to Black dimming technology. Available on all luminaires up to 1500 lumens.
ELDO10.1 - EldoLED SoloDrive 0-10V. Dimming down to 0.1%.
DALI - DALI DT6, DT8 dimming down to 1%.
ELDODMX - EldoLED PowerDrive dimming down to 0.1%.
Please see EldoLED website for wiring diagrams and a list of compatible DMX and DALI control systems.

WARRANTY

Five-year warranty for parts and components. (Labor not included)

LED DYNAMIC PLATFORM OPTIONS

Tunable White with Smart White Technology utilizing the Lumenetix Platform allows you to color tune the luminaire via various controls. Create the perfect environment for the desired use of the space, while maintaining a CRI of 90+ across the tunable range of 8000 to 1650K. (Click here for more details)

Dims to Warm with Smart Dimming Technology. At 100% full brightness the luminaire is at 3000K. When dimmed to 1%, the light transitions to 1800K, creating a warm ambiance within the space. (Click here for more details)

RGB+White with Smart Hue Technology provides full color mixing of RGB and white colors. Utilizing the Lumenetix Platform allows you to choose from unlimited RGB color options, via various controls. Ideal for Circadian Rhythm applications or to create the perfect human centric environment. (Click here for more details)

LISTINGS

c-UL-us - Listed for Wet Location if used with HH8-8501 Trim.
c-UL-us - Listed for Feed Through Wiring.

U.S Patent No. - D685,118S
CP-City of Chicago Environmental Air (CCEA) marking for plenum applications.
Energy Star and California Title 24 compliant
Optional Black color trim is not ENERGYSTAR certified and won't meet the requirement.

Example: **HH8-LED-4000L-DIM10-MVOLT-MD-40K-90-HH8-8501-CL-WH**

SERIES	LUMENS	DRIVER	VOLTAGE	CCT	EMERGENCY	TRIM TYPE	REFLECTOR/FLANGE COLORS
HH8-LED	❑ 900L	❑ DIM10	❑ 120	❑ 22K	❑ EMG-LED-10W	❑ HH8-8501 Flanged Downlight	❑ CL-WH
	❑ 1200L	❑ DIMTR [3] [6]	❑ 277	❑ 27K	❑ EMG-LED-20W	❑ HH8-8577 Flanged Double Wall Wash	❑ CL-SCH
	❑ 1500L	❑ LUTH [2] [6]	❑ MVOLT	❑ 30K	❑ INTG-EMG-LED-10W	❑ HH8-8507 Flanged Wall Wash	❑ SHZ-WH
	❑ 2000L	❑ LUT2W [3] [6]	❑ 347 (DIM10 only)	❑ 35K	❑ INTG-EMG-LED-20W		❑ SHZ-SHZ
	❑ 3000L	❑ LUTFTB [7]		❑ 40K	Typical lumen output of the luminaire is up to 1000L with EMG-LED-10W option & 2000L with EMG-LED-20W option in emergency mode. Contact the factory for details. Remote mounted installation		❑ WT-WH
	❑ 4000L	❑ ELDO10-.1 [2]		❑ 50K [4]			❑ W-WH
	❑ 6000L	❑ ELDODALI-.1 [2]					❑ MB-WH*
	❑ 8000L [1]	❑ ELDODMX-.1 [2]					❑ CL-BK
			OPTICS	CRI	OPTIONS		❑ MB-BK*
			❑ WD	❑ 90+	❑ CP (Chicago Plenum)	TRIMLESS	
			❑ MD	❑ 98+ [5]		❑ HH8-TL-8507 Trimless Wall Wash	* Black color trim is not ENERGYSTAR certified
			❑ ND			❑ HH8-TL-8501 Trimless Downlight	
						OPTIONS	
						❑ INTG (Reflector shipped with pre-punched hole to accept INTG-EMG-LED)	

[1] **DIM10 5%** is available only for **8000L** [2] **LUTH**, **ELDO10-.1**, **ELDODALI-.1**, and **ELDODMX-.1** are available in 120V and 277V [3] **DIMTR** and are **LUT2W** available in 120V only
[4] **50K** series are available with 85+ CRI only [5] **98+** CRI is available in 27K, 30K and 40K only [6] **DIMTR** and **LUTH**, **LUT2W** Available for luminaires up to 3000L [7] **LUTFTB** Available for luminaires up to 1500L
-Reference last page for Control Options

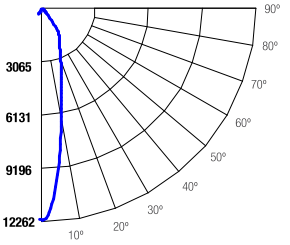
Due to the changes of constant improvement in LED technology, all details are subject to change without notice. Consult factory for up to date information.

HH8-LED-4000L-DIM10-MVOLT-ND-40K-90-HH8-8501-CL-WH

TEST NO.: **EL1218150**

INPUT WATTS: **49.1** LUMENS: **4733** CRI: **90** EFFICACY: **96** CCT: **4000K** SPACING CRITERIA: **0.50**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	2146.83	N.A.	45.40
0-30	3352.59	N.A.	70.80
0-40	4332.2	N.A.	91.50
0-60	4707.73	N.A.	99.50
0-80	4729.85	N.A.	99.90
0-90	4732.63	N.A.	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	6967	10815	26724
55	2116	2811	3813
65	759	870	2123
75	500	695	816
85	339	1331	1475

Lumens Per Zone

Zone	Lumens
0-10	837.03
10-20	1309.8
20-30	1205.76
30-40	979.61
40-50	322.34
50-60	53.19
60-70	16.44
70-80	5.68
80-90	2.78

Candela Tabulation

	0
0	12261.97
5	10025.75
15	4551.01
25	2513.40
35	1730.89
45	156.73
55	38.62
65	10.21
75	4.12
85	0.94
90	0.15

Cone of Light			
2	3065	0.8	0.8
4	766	1.6	1.6
6	341	2.4	3.3
8	192	3.2	3.3
10	123	4	4.1
12	85.2	4.8	4.9
(FT.)Distance to Plane	(FC.) Initial Footcandle at Nadir	(FT.) Beam Vert. Spread	(FT.) Beam Horiz. Spread

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

Coefficients of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 0.20

RC	80%				70%				50%			30%			10%			0%
RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	106	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	108	104	100	97	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	96	91	88	93	89	86	91	88	85	88	86	84	82
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	78	77
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64
8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	61
9	78	69	63	59	77	68	63	59	67	62	59	66	62	59	66	62	59	57
10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	55

ROOM CAVITY RATIO

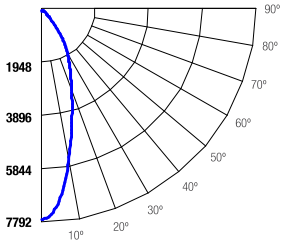
***RC** - Ceiling Cavity Reflectance* ***RW** - Wall Reflectance*

HH8-LED-4000L-DIM10-MVOLT-MD-40K-90-HH8-8501-CL-WH

TEST NO.: **EL1218148**

INPUT WATTS: **48.5** LUMENS: **4363** CRI: **90** EFFICACY: **90** CCT: **4000K** SPACING CRITERIA: **0.66**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	1858.94	N.A.	42.60
0-30	3045.77	N.A.	69.80
0-40	3931.59	N.A.	90.10
0-60	4338.31	N.A.	99.40
0-80	4360.45	N.A.	99.90
0-90	4363.05	N.A.	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	10117	16331	24847
55	1983	3513	4050
65	705	800	2194
75	457	634	740
85	303	1208	1331

Lumens Per Zone

Zone	Lumens
0-10	631.11
10-20	1227.84
20-30	1186.83
30-40	885.82
40-50	346.15
50-60	60.57
60-70	16.85
70-80	5.30
80-90	2.60

Candela Tabulation

	0
0	7791.97
5	7129.49
15	4331.67
25	2510.30
35	1374.17
45	227.60
55	36.18
65	9.48
75	3.76
85	0.84
90	0.15

Cone of Light			
2	1948	1.2	1.3
4	487	2.5	2.5
6	216	3.7	3.8
8	122	4.9	5.1
10	77.9	6.2	6.4
12	54.1	7.4	7.6
(FT.)Distance to Plane	(FC.) Initial Footcandle at Nadir	(FT.) Beam Vert. Spread	(FT.) Beam Horiz. Spread

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

Coefficients of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 0.20

RC	80%				70%				50%			30%			10%			0%
RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87
3	103	96	91	88	101	95	90	87	92	89	85	90	87	84	88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52

ROOM CAVITY RATIO

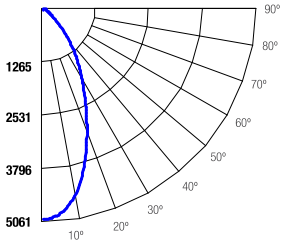
***RC** - Ceiling Cavity Reflectance* ***RW** - Wall Reflectance*

HH8-LED-4000L-DIM10-MVOLT-WD-40K-90-HH8-8501-CL-WH

TEST NO.: **EL1218147**

INPUT WATTS: **48.7** LUMENS: **3963** CRI: **90** EFFICACY: **81** CCT: **4000K** SPACING CRITERIA: **0.80**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	1517.55	N.A.	38.30
0-30	2621.36	N.A.	66.20
0-40	3458.98	N.A.	87.30
0-60	3936.07	N.A.	99.30
0-80	3960.06	N.A.	99.90
0-90	3962.51	N.A.	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	18116	23677	23992
55	1929	5705	5394
65	698	806	2795
75	442	616	718
85	289	1122	1237

Lumens Per Zone

Zone	Lumens
0-10	455.70
10-20	1061.86
20-30	1103.81
30-40	837.62
40-50	401.40
50-60	75.69
60-70	18.80
70-80	5.19
80-90	2.45

Candela Tabulation

	0
0	5061.33
5	4918.36
15	3842.10
25	2371.45
35	1310.88
45	407.53
55	35.20
65	9.39
75	3.64
85	0.80
90	0.15

Cone of Light			
2	1265	1.8	1.8
4	316	3.6	3.6
6	141	5.4	5.4
8	79.1	7.1	7.3
10	50.6	8.9	9.1
12	35.1	10.7	10.9
(FT.)Distance to Plane	(FC.) Initial Footcandle at Nadir	(FT.) Beam Vert. Spread	(FT.) Beam Horiz. Spread

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

Coefficients of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 0.20

RC	80%				70%				50%			30%			10%			0%
RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93
2	108	103	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86
3	102	95	90	86	100	94	89	85	91	87	84	89	86	83	87	84	81	80
4	97	89	83	79	95	88	82	78	85	81	77	83	80	76	82	78	76	74
5	91	83	77	73	90	82	76	72	80	75	72	78	74	71	77	73	70	69
6	87	78	72	67	85	77	71	67	75	70	66	74	69	66	73	69	66	64
7	82	73	67	62	81	72	66	62	71	66	62	70	65	62	69	64	61	60
8	78	69	62	58	77	68	62	58	67	62	58	66	61	58	65	61	57	56
9	74	65	59	55	73	64	58	54	63	58	54	62	58	54	61	57	54	53
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	49

ROOM CAVITY RATIO

***RC** - Ceiling Cavity Reflectance* ***RW** - Wall Reflectance*

Due to the changes of constant improvement in LED technology, all details are subject to change without notice. Consult factory for up to date information.

1- Luminaire will be shipped with Powerpacks pre-installed, ready to be integrated to designated contol systems
2- Luminaire will be shipped with Sensors installed on the luminaire, allowing for individual luminaire control. Luminaires will be ready to be integrated with designated control systems
3- Luminaire will be shipped with Sensors to be remotely installed on the ceiling. Luminaires will be ready to be integrated with designated control systems

BRAND	EASYFIT by EnOcean	LUTRON	enlighted	LEVITON	OSRAM	PHILIPS EasySense	legrand®
CONTROL UNIT	❑ LEDRU LED Relay Zone Controller 0-10V [1] ❑ LEDDU LED Zone Controller 0-10V [1]	❑ FCJS-010 Lutron Vive 0-10V Individual Pow Pak (Luminare is shipped Vive Enabled) [14] ❑ FCJS-ECO Lutron Vive Eco-system Pow Pak (Luminare is shipped Vive Enabled) [14]	❑ CU-4E-FMH Fixture Mount Control Unit [15]	❑ ZL027 –N0W Intellect Power Control Module [16] ❑ ZL027 –N0W Intellect Power Control Module [16]	❑ EN-WCM2-ZB-DR Wireless Control Module [17] ❑ EN- ALC-ZB-BK-DR Wireless Area Lighting Control Module [17] ❑ ZBHA-CLM-DIM-ENC Connected Lighting Module DIM [17]	❑ SBR -BS Xitanium SR Bridge [18]	❑ LMFC-011 ON/OFF/0-10V dimming fixture controller [19]
INTEGRAT SENSOR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
*WIRELESS OCCUPANCY SENSOR	❑ EOSCU-W-EO Occupancy Sensor - Ceiling Mounted **(Must be specified with LEDRU or LEDDU control unit)** [3]	N/A	N/A	N/A	N/A	N/A	❑ LMDC-100 Dual technology PIR Ceiling Mount Occupancy Sensor [3]
*WIRELESS DAYLIGHT SENSOR	❑ ELLSU-W-EO Light Level Sensor - Ceiling Mounted **(Must be specified with LEDRU or LEDDU control unit)** [3]	N/A	N/A	N/A	N/A	N/A	❑ LMLS-400 Single zone switching and dimming digital photosensor [3]
*WIRELESS OCCUPANCY & DAYLIGHT SENSOR	N/A	N/A	❑ SU-5E-IoT IoT Node Micro Sensor [3] ❑ SU-5E-CL Connected Lighting Micro Sensor [3] ❑ SU-5E-IL Independent Lighting / Enlighted One Micro Sensor [3] ❑ SU-5S-H-(IoT/CL/IL) Surface Mount Sensor [3] **(Must be specified with CU-4E-FMH Control Unit)**	❑ ZL00J -T0W Intellect Intelligent Fixture Control System [3] **(Must be specified with ZL027 –N0W Control Unit)**	❑ EN-CLM-PIR-DD-ZB SensiLUM™ Wireless Integrated Sensor ❑ EN-SCPPH-1500-ZB Wireless Passive Infrared Occupancy and Photo Sensors [3] **(Must be specified with EN-WCM2-ZB-DR or EN-ALC-ZB-BK-DR Control Unit)**	❑ SNS200-CMP SNS200 for grouping [3]	N/A
ACCESORIES	N/A	N/A	❑ TMC-SU-5E Tile Mount Carrier ❑ CBL-5E-CU4-30N 30 inch Sensor Cable for CU-4 and IoT ReadyTM drivers ❑ CBL-5E-CU4-7F 7 foot Sensor Cable for CU-4 and IoT ReadyTM drivers	N/A	N/A	N/A	N/A
NOTES	N/A	4- Luminaire will be compatible with Lutron LRF2-OCR2B-P-WH Ceiling mount360° occupancy/vacancy sensor & LRF2-DCRB-WH Ceiling-mount daylight sensor. Sensors must be ordered through Lutron.	5- Luminaire will be compatible with ENLIGHTED SU-5E-IoT, SU-5E-CL, SU-5E-IL, SU-5S-H, Sensors.	6-Luminaire will be compatible with Leviton Intellect App & Keypad Room Controller	7-Luminaire will be compatible with EN-SCPPH-1500-ZB Wireless Passive Infrared Occupancy and Photo Sensors	8-Luminaire will be compatible with Philips field and wireless switch.	9-Luminaire will be compatible with DLM Room control system LMPB-100. DLM control system must be orderd through Legrand.

Due to the changes of constant improvement in LED technology, all details are subject to change without notice. Consult factory for up to date information.

NLS LIGHTING

SAVANNAH 1

AREA/STREET LIGHTING/ MUNICIPAL

The Savannah adds a touch of class and elegance to any Municipal, or Residential Project. Beautiful by day and efficient by night, the Savannah is the perfect street, curbside and pathway solution. Utilizing the latest in LED technology, the Savannah features the **patent pending Star Power optical system** with field adjustment capabilities. Savannah's light source facing a residence can be independently concealed by field adjustment so that maximum lighting levels are targeted where needed—on the street, or between fixtures on sidewalks. Also ideal for storefronts alongside the street, Savannah's light source can be easily adjusted on-site allowing light distribution just before a storefront's entrance.

The Savannah produces 105 Lumens per watt. Kelvin temperature offerings include 3000 (warm), 4000 (neutral) or 5000 (cool) Kelvin. The luminaire is powder coated with a textured finish.

The Savannah is available in two different globe designs, three top shades and additional decorative options such as the Filigree + Strut Combo. Shades include 4.38" Cast Finial as standard, powder-coated same finish as fixture. Globe only luminaires have no finial as standard; optional Antique Brass 2-3/8" X 1/4 IPS Finial (FIN) available.



PROUDLY MADE IN THE USA

STAR POWER OPTICAL SYSTEM

STAR POWER™ OPTICAL SYSTEM

The Star Power™ reflector is an excellent system which provides great value and performance.

LED WATTAGE CHART

	16L	32L	48L
350 milliamps	17w	34w	53w
530 milliamps	26w	54w	80w
700 milliamps	33w	71w	104w

Project Name:

Type: PT5

Cat #	Shade / Lens	Light Dist	No. of LEDs	Milliamps	Kelvin	Volts	Mounting	Color	Options
Savannah 1 **(SVN-1)**	Shade 1 **(SH1)** Shade 2 **(SH2)** Shade 3 **(SH3)** Globes Lens Globe 1 **(LG1)** **Use With or Without Shade* Lens Globe 2 **(LG2)** **Use Without Shade*	Type 2 **(T2)** Type 3 **(T3)** Type 5 **(T5)**	16 **(16L)** 32 **(32L)** 48 **(48L)**	350 **(35)** 530 **(53)** 700 **(7)**	3000K **(30K)** 4000K **(40K)** 5000K **(50K)**	120-277 **(UNV)** 347-480 **(HV)**	Post Top Mount **(PT)** **Over 3" OD Tenon*	Bronze **(BRZ)** White **(WHT)** Silver **(SVR)** Hunter Green **(HGN)** Black **(BLK)** Graphite **(GPH)** Grey **(GRY)** Custom **(CS)**	Opal **(OPL)** Polycarbonate Lens **(PLY)** Decorative Filigree + Strut Combo **(FSC)** Photocell **(PC)** **Universal Voltage 120-277* Surge Protector **(10K)** House Side Shield **(HSS)** Finial **(FIN)** Nema 7-Pin Receptacle **(PE7)** Terminal Block **(TB)**

PRODUCT SPECIFICATIONS

Housing: Cast Aluminum
LED: Lumileds Luxeon MX. CRI 70
Optics: Star Power T2, T3, and T5
Watts: 17-104
L70: 480,000 Hours
Electrical: UL 1598 Listed

Driver: 0-10V Dimming driver as standard by Philips Advance. THD @ Max Load < 15%. Power Factor @ Max Load < 0.95
Kelvin: 3000, 4000 or 5000
Finish: 5 mils Powder Coat
Warranty: Standard Warranty is 5 years for Driver and LEDs

PRODUCT DIMENSIONS / OPTIONS

SAVANNAH LUMEN DATA CHART

PART NUMBER	T2 LUMENS	T2 LM/W	T3 LUMENS	T3 LM/W	T5 LUMENS	T5 LM/W	Watts
SVN-X-SHX-16L-35-30K	1683	99	1598	94	1632	96	17
SVN-X-SHX-16L-35-40K	1734	102	1649	97	1700	100	17
SVN-X-SHX-16L-35-50K	1802	106	1717	101	1768	104	17
SVN-X-SHX-16L-53-30K	2574	99	2444	94	2496	96	26
SVN-X-SHX-16L-53-40K	2652	102	2522	97	2600	100	26
SVN-X-SHX-16L-53-50K	2756	106	2626	101	2704	104	26
SVN-X-SHX-16L-7-30K	3267	99	3102	94	3168	96	33
SVN-X-SHX-16L-7-40K	3366	102	3201	97	3300	100	33
SVN-X-SHX-16L-7-50K	3498	106	3333	101	3432	104	33
SVN-X-SHX-32L-35-30K	3366	99	3196	94	3264	96	34
SVN-X-SHX-32L-35-40K	3468	102	3298	97	3400	100	34
SVN-X-SHX-32L-35-50K	3604	106	3434	101	3536	104	34
SVN-X-SHX-32L-53-30K	5346	99	5076	94	5184	96	54
SVN-X-SHX-32L-53-40K	5508	102	5238	97	5400	100	54
SVN-X-SHX-32L-53-50K	5724	106	5454	101	5616	104	54
SVN-X-SHX-32L-7-30K	7029	99	6674	94	6816	96	71
SVN-X-SHX-32L-7-40K	7242	102	6887	97	7100	100	71
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SVN-X-SHX-48L-35-50K	5618	106	5353	101	5512	104	53
SVN-X-SHX-48L-53-30K	7920	99	7520	94	7680	96	80
SVN-X-SHX-48L-53-40K	8160	102	7760	97	8000	100	80
SVN-X-SHX-48L-53-50K	8480	106	8080	101	8320	104	80
SVN-X-SHX-48L-7-30K	10296	99	9776	94	9984	96	104
SVN-X-SHX-48L-7-40K	10608	102	10088	97	10400	100	104
SVN-X-SHX-48L-7-50K	11024	106	10504	101	10816	104	104

Reliability:

The Savannah features the Luxeon M LED which has the slowest rate of depreciation in the industry. The Savannah has 480,000 hours before it depreciates 30 percent; making it a true municipal thirty year plus solution.

LENS GLOBES + SHADES



LENS GLOBE 1 | LENS GLOBE 2



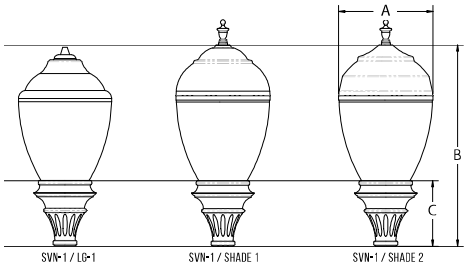
SHADE 1 | SHADE 2

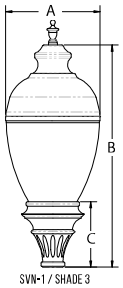


SHADE 3

DIMENSIONS

	A	B	C
SVN-1/LG-1	15.88 in	33.83 in	11 in
SVN-1/SH1	15.88 in	33.83 in	11 in
SVN-1/SH2	15.88 in	33.83 in	11 in
SVN-1/SH3	15.88 in	37.33 in	11 in







Standard Cast Finial for Shades



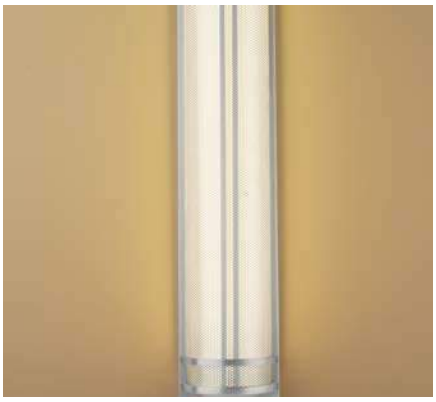
Optional Brass Finial (FIN) for Globes

c UL us LISTED

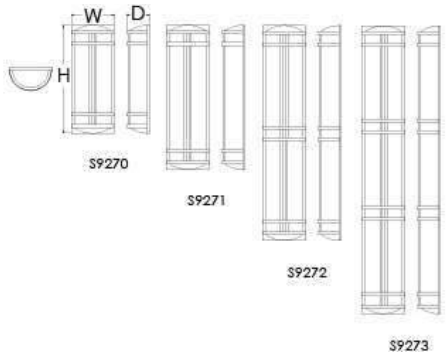
S9270 Series
Beretto







DIMENSIONS



W	H	D	MC	BASE MODEL NO.
7 3/4″	18 1/4″	4″	9 1/8″	**S9270-L24**
7 3/4″	24 1/4″	4″	12 1/8″	**S9271-L32**
7 3/4″	36″	4″	18″	**S9272-L48**
7 3/4″	48″	4″	24″	**S9273-L68**

SPECIFICATIONS

Driver: 0-10V dimming to 1%, 120/277
Mounting: Mounts to all Standard Electrical Junction Boxes (by others) With Hardware Provided. Silicone Seal Required (by others).

FEATURES

- Opal Matte Acrylic Lens
- Solid Aluminum Die Case End-Caps
- Solid Aluminum Bar Stock
- UL Listed for Wet Locations
- LED 0-10V Dimming Driver

ORDER AS A COMPLETE UNIT:

Model No. + Lamp Code + CCT + Finish + Option Code

S9270-L24	+	27K	+	PT	+	Option
S9271-L~~32~~ 08		30K		CC		
S9272-L48		35K		BA		
S9273-L68		40K		NT		
				GT		
				CT		

FINISHES

BA Brushed Aluminum
PC Polished Chrome
NT Nickel Touch
GT Gold Touch
CT Copper Touch
CC Custom Painted Finish
PT Powder Coated Finishes*
**
*(Specify Color Code from the list of Powder Coating Finishes [except interior only metallics])

GLOSS BLACK

OPTIONS

EML Emergency Battery Pack with LED Lighting (Remote)
PMD Perforated Metal Diffuser

LIGHT OUTPUT

LXX = ~ 74 LPW Delivered Lumens (Example: L24= 24 x 74 = 1,776 Lumens)

** Try our new **Shimmer Metalic Paints**, Formulated for Exterior Conditions.

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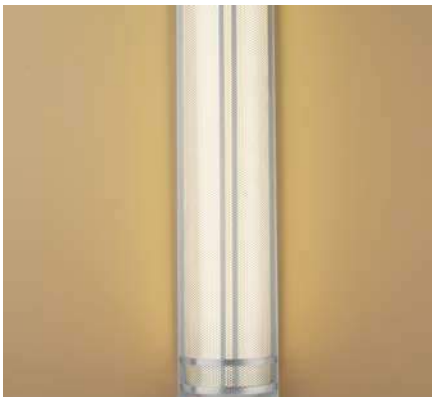
S9270 Series
Beretto







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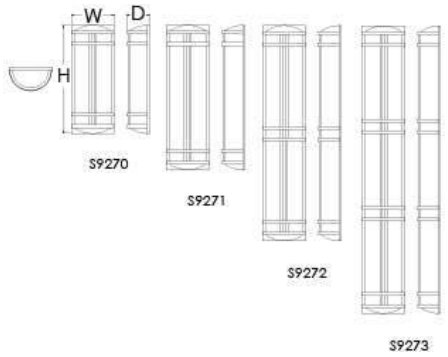

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S9273-L68		40K		NT		
				GT		
				CT		

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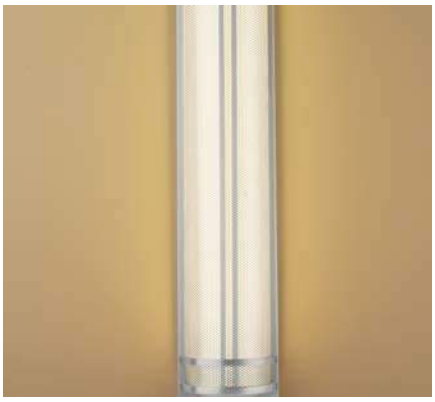
S9270 Series
Beretto







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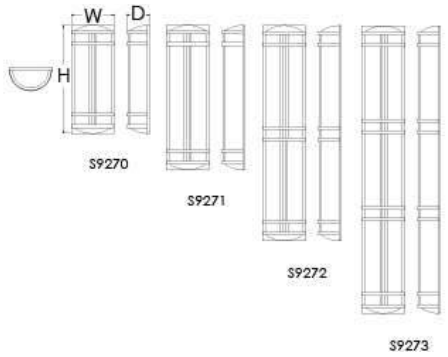

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SPECIFICATIONS

Driver: 0-10V dimming to 1%, 120/277
Mounting: Mounts to all Standard Electrical Junction Boxes (by others) With Hardware Provided. Silicone Seal Required (by others).

FEATURES

- Opal Matte Acrylic Lens
- Solid Aluminum Die Case End-Caps
- Solid Aluminum Bar Stock
- UL Listed for Wet Locations
- LED 0-10V Dimming Driver

ORDER AS A COMPLETE UNIT:

Model No.	+	Lamp Code	+	CCT	+	Finish	+	Option Code
S9270-L24		06		27K		PT		Option
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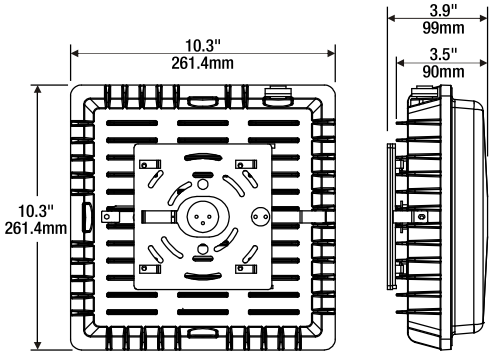
SYLVANIA Luminaires

10" Canopy

Catalog #	CANOPY3A040UNV74010S5BZ	Type
Project		
Notes		SP4
Date		
Prepared by		



Dimensions



Product Features

- Slim, lightweight design
- Easy to install with hinged mounting plate
- Durable housing
- Energy savings of up to 79% compared to traditional sources
- High efficacy meets DLC Premium requirements

Wattage Comparison Chart

Traditional Source	Traditional System Wattage	LED System Wattage	Energy Savings
35 W HPS	42	20	52%
50 W HPS	62	20	68%
70 W HPS	91	20	67%
70 W HPS	91	40	56%
100 W HPS	120	40	67%
100 W MH	130	40	69%
150 W HPS	170	40	76%
150 W MH	188	40	79%
150 W HPS	170	55	68%
150 W MH	188	55	71%
175 W MH	210	55	74%

Specifications

Weight: 5.7 lbs (2.3kg)

Construction: Die Cast aluminum housing with powder coat paint. The standard colors are bronze or white.

LED System: LED system with a life rating of >50,000 hours at L_{70} @ 25°C. Luminaire efficacy up to 120 LPW.

Electrical: Offered in 20, 40, and 55 watts, the luminaire is designed to operate through the 120-277 Vac universal voltage range. Offered in 40 and 55 watts, the luminaire is designed to operate at the 347 V_{AC} voltage range. The LED driver is a constant current device. The power factor is ≥90% and THD is ≤20%.

Color Characteristics: CRI >70; CCT of 4000K or 5000K.

Optics: Type V distribution with UV resistant polycarbonate lens.

Installation: Luminaire mounts to recessed outlet box or can be pendant mounted (accessories not included).

Operating Temperature: -40°F to +122°F (-40°C to +50°C).

Listings: cULus classified to UL1598C rated for wet locations.

Warranty: Standard 5-year luminaire warranty (LEDLUM002).

Note: Specifications subject to change without notice. IES files available online.

Ordering Guide

Item Number:

CANOPY	**3A**	/	**XXX**	**XXX**	**7**	**XX**	/	**10S**	**5**	/	**XX**
Product Name CANOPY	Generation 3A		Wattage (UNV) 020 = 20 Watts 040 = 40 Watts 055 = 55 Watts Wattage (347V) 040 = 40 Watts 055 = 55 Watts	Voltage UNV = 120-277V 347 = 347V	CRI 7 = >80	Color Temp (CCT) 40 = 4000K 50 = 5000K		Shape 10S = 10" Square	Distribution 5 = Type V		Color Finish BZ = Bronze WH = White

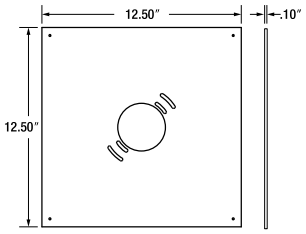
Ordering Information

Item Number	Ordering Abbreviation	Finish	Power (W)	Input Voltage	Dimming	CRI	Color Temp (CCT)	Lumens	LPW
60151	CANOPY3A/020UNV740/10S5/WH	White	20	120-277	0-10V	>70	4000K	2300	115
60152	CANOPY3A/020UNV750/10S5/WH	White	20	120-277	0-10V	>70	5000K	2300	115
60153	CANOPY3A/040UNV740/10S5/WH	White	40	120-277	0-10V	>70	4000K	4800	120
60154	CANOPY3A/040UNV750/10S5/WH	White	40	120-277	0-10V	>70	5000K	4800	120
60555	CANOPY3A/040347740/10S5/WH	White	40	347	—	>70	4000K	4800	120
60556	CANOPY3A/040347750/10S5/WH	White	40	347	—	>70	5000K	4800	120
60155	CANOPY3A/055UNV740/10S5/WH	White	55	120-277	0-10V	>70	4000K	6300	114
60156	CANOPY3A/055UNV750/10S5/WH	White	55	120-277	0-10V	>70	5000K	6300	114
60557	CANOPY3A/055347740/10S5/WH	White	55	347	—	>70	4000K	6300	114
60558	CANOPY3A/055347750/10S5/WH	White	55	347	—	>70	5000K	6300	114
60157	CANOPY3A/020UNV740/10S5/BZ	Bronze	20	120-277	0-10V	>70	4000K	2300	115
60158	CANOPY3A/020UNV750/10S5/BZ	Bronze	20	120-277	0-10V	>70	5000K	2300	115
60159	CANOPY3A/040UNV740/10S5/BZ	Bronze	40	120-277	0-10V	>70	4000K	4800	120
60160	CANOPY3A/040UNV750/10S5/BZ	Bronze	40	120-277	0-10V	>70	5000K	4800	120
60559	CANOPY3A/040347740/10S5/BZ	Bronze	40	347	—	>70	4000K	4800	120
60560	CANOPY3A/040347750/10S5/BZ	Bronze	40	347	—	>70	5000K	4800	120
60161	CANOPY3A/055UNV740/10S5/BZ	Bronze	55	120-277	0-10V	>70	4000K	6300	114
60162	CANOPY3A/055UNV750/10S5/BZ	Bronze	55	120-277	0-10V	>70	5000K	6300	114
60561	CANOPY3A/055347740/10S5/BZ	Bronze	55	347	—	>70	4000K	6300	114
60562	CANOPY3A/055347750/10S5/BZ	Bronze	55	347	—	>70	5000K	6300	114

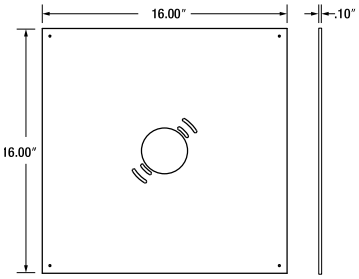
Mounting Accessories

Item Number	Ordering Abbreviation	Item Description
60683	CANOPY3A/MTGPLATE/12/BZ	12.5" Mounting Plate, Bronze
60684	CANOPY3A/MTGPLATE/16/BZ	16" Mounting Plate, Bronze
60685	CANOPY3A/MTGPLATE/12/WH	12.5" Mounting Plate, White
60686	CANOPY3A/MTGPLATE/16/WH	16" Mounting Plate, White

12.5 Inch



16 Inch



LEDVANCE LLC
200 Ballardvale Street
Wilmington, MA 01887 USA
Phone 1-800-LIGHTBULB (1-800-544-4828)
www.sylvania.com

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Licensee of product trademark SYLVANIA in general lighting.
Specifications subject to change without notice.

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NLS LIGHTING

SAVANNAH 1

AREA/STREET LIGHTING/ MUNICIPAL

The Savannah adds a touch of class and elegance to any Municipal, or Residential Project. Beautiful by day and efficient by night, the Savannah is the perfect street, curbside and pathway solution. Utilizing the latest in LED technology, the Savannah features the **patent pending Star Power optical system** with field adjustment capabilities. Savannah's light source facing a residence can be independently concealed by field adjustment so that maximum lighting levels are targeted where needed—on the street, or between fixtures on sidewalks. Also ideal for storefronts alongside the street, Savannah's light source can be easily adjusted on-site allowing light distribution just before a storefront's entrance.

The Savannah produces 105 Lumens per watt. Kelvin temperature offerings include 3000 (warm), 4000 (neutral) or 5000 (cool) Kelvin. The luminaire is powder coated with a textured finish.

The Savannah is available in two different globe designs, three top shades and additional decorative options such as the Filigree + Strut Combo. Shades include 4.38" Cast Finial as standard, powder-coated same finish as fixture. Globe only luminaires have no finial as standard; optional Antique Brass 2-3/8" X 1/4 IPS Finial (FIN) available.



PROUDLY MADE IN THE USA

STAR POWER OPTICAL SYSTEM

STAR POWER™ OPTICAL SYSTEM

The Star Power™ reflector is an excellent system which provides great value and performance.

LED WATTAGE CHART

	16L	32L	48L
350 milliamps	17w	34w	53w
530 milliamps	26w	54w	80w
700 milliamps	33w	71w	104w

Project Name:

Type: PT5

Cat #	Shade / Lens	Light Dist	No. of LEDs	Milliamps	Kelvin	Volts	Mounting	Color	Options
Savannah 1 **(SVN-1)**	Shade 1 **(SH1)** Shade 2 **(SH2)** Shade 3 **(SH3)** Globes Lens Globe 1 **(LG1)** **Use With or Without Shade* Lens Globe 2 **(LG2)** **Use Without Shade*	Type 2 **(T2)** Type 3 **(T3)** Type 5 **(T5)**	16 **(16L)** 32 **(32L)** 48 **(48L)**	350 **(35)** 530 **(53)** 700 **(7)**	3000K **(30K)** 4000K **(40K)** 5000K **(50K)**	120-277 **(UNV)** 347-480 **(HV)**	Post Top Mount **(PT)** **Over 3" OD Tenon*	Bronze **(BRZ)** White **(WHT)** Silver **(SVR)** Hunter Green **(HGN)** Black **(BLK)** Graphite **(GPH)** Grey **(GRY)** Custom **(CS)**	Opal **(OPL)** Polycarbonate Lens **(PLY)** Decorative Filigree + Strut Combo **(FSC)** Photocell **(PC)** **Universal Voltage 120-277* Surge Protector **(10K)** House Side Shield **(HSS)** Finial **(FIN)** Nema 7-Pin Receptacle **(PE7)** Terminal Block **(TB)**

PRODUCT SPECIFICATIONS

Housing: Cast Aluminum
LED: Lumileds Luxeon MX. CRI 70
Optics: Star Power T2, T3, and T5
Watts: 17-104
L70: 480,000 Hours
Electrical: UL 1598 Listed

Driver: 0-10V Dimming driver as standard by Philips Advance. THD @ Max Load < 15%. Power Factor @ Max Load < 0.95
Kelvin: 3000, 4000 or 5000
Finish: 5 mils Powder Coat
Warranty: Standard Warranty is 5 years for Driver and LEDs

PRODUCT DIMENSIONS / OPTIONS

SAVANNAH LUMEN DATA CHART

PART NUMBER	T2 LUMENS	T2 LM/W	T3 LUMENS	T3 LM/W	T5 LUMENS	T5 LM/W	Watts
SVN-X-SHX-16L-35-30K	1683	99	1598	94	1632	96	17
SVN-X-SHX-16L-35-40K	1734	102	1649	97	1700	100	17
SVN-X-SHX-16L-35-50K	1802	106	1717	101	1768	104	17
SVN-X-SHX-16L-53-30K	2574	99	2444	94	2496	96	26
SVN-X-SHX-16L-53-40K	2652	102	2522	97	2600	100	26
SVN-X-SHX-16L-53-50K	2756	106	2626	101	2704	104	26
SVN-X-SHX-16L-7-30K	3267	99	3102	94	3168	96	33
SVN-X-SHX-16L-7-40K	3366	102	3201	97	3300	100	33
SVN-X-SHX-16L-7-50K	3498	106	3333	101	3432	104	33
SVN-X-SHX-32L-35-30K	3366	99	3196	94	3264	96	34
SVN-X-SHX-32L-35-40K	3468	102	3298	97	3400	100	34
SVN-X-SHX-32L-35-50K	3604	106	3434	101	3536	104	34
SVN-X-SHX-32L-53-30K	5346	99	5076	94	5184	96	54
SVN-X-SHX-32L-53-40K	5508	102	5238	97	5400	100	54
SVN-X-SHX-32L-53-50K	5724	106	5454	101	5616	104	54
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LENS GLOBES + SHADES



LENS GLOBE 1 | LENS GLOBE 2



SHADE 1 | SHADE 2



SHADE 3

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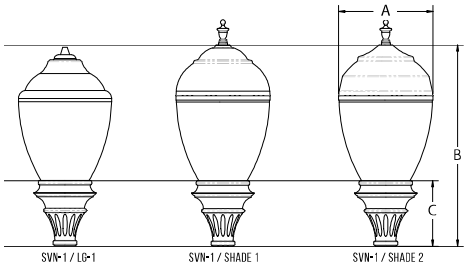
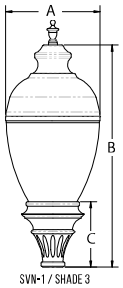
SVN-1/SH1	15.88 in	33.83 in	11 in
SVN-1/SH2	15.88 in	33.83 in	11 in
SVN-1/SH3	15.88 in	37.33 in	11 in







Standard Cast Finial for Shades



Optional Brass Finial (FIN) for Globes

c UL us LISTED

OSQ Series

OSQ™ High Output LED Area/Flood Luminaire featuring Cree TrueWhite® Technology

TYPE M

OSQ-HO-A-NM-5ME-40L-57K-UL-BK/OSQ-HO-DA-BK

Rev. Date: V13 10/26/2020

Product Description

The OSQ™ High Output Area/Flood luminaire blends extreme optical control, advanced thermal management and modern, clean aesthetics. Built to last, the housing is rugged cast aluminum with an integral, weathertight LED driver compartment. Versatile mounting configurations offer simple installation. Its slim, low-profile design minimizes wind load requirements and blends seamlessly into the site providing even, quality illumination. The OSQ high output luminaire is a suitable upgrade for HID applications with one or even multiple 1000 Watt luminaires.

Applications: Auto dealerships, parking lots, campuses, facade lighting, high-mast and general site lighting applications

Performance Summary

Utilizes Cree TrueWhite® Technology on 5000K Luminaires

NanoOptic® Precision Delivery Grid™ optic

Assembled in the U.S.A. of U.S. and imported parts

Initial Delivered Lumens: Up to 68,691

Efficacy: Up to 125 LPW

CRI: Minimum 70 CRI (3000K, 4000K & 5700K); 90 CRI (5000K)

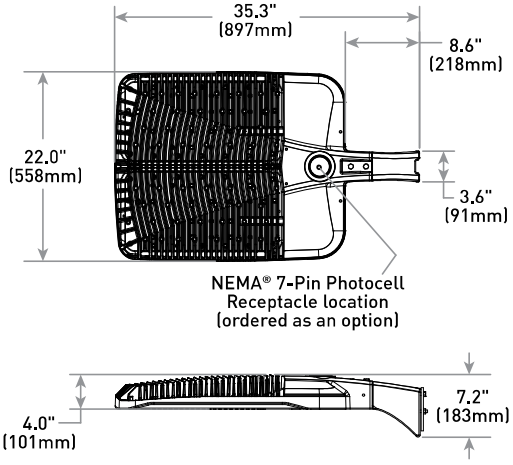
CCT: 3000K (+/- 300K), 4000K (+/- 300K), 5000K (+/- 300K), 5700K (+/- 500K)

Limited Warranty†: 10 years on luminaire; 10 years on Colorfast DeltaGuard® finish; up to 5 years for Synapse® accessories; 1 year on luminaire accessories

† See http://creelighting.com/warranty for warranty terms. For Synapse accessories, consult Synapse spec sheets for details on warranty terms.

DA Mount





Lumen Package	Voltage	Weight
40/50L	120-480V	70.0 lbs. (31.8kg)
65L	120-480V	72.0 lbs. (32.7kg)

Note: Refer to page 12 for fixture mounting drill pattern.

Ordering Information

Fully assembled luminaire is composed of two components that must be ordered separately:
Example: **Mount:** OSQ-HO-AA-SV + **Luminaire:** OSQ-HO-A-NM-2ME-40L-40K-UL-SV

Mount (Luminaire must be ordered separately)	
OSQ-HO-	
OSQ-HO-AA Adjustable Arm **OSQ-HO-DA** Direct Arm	**Color Options:** **SV** Silver **BK** Black **BZ** Bronze **WH** White

Note: Reference EPA and pole configuration suitability data beginning on page 11

Luminaire (Mount must be ordered separately)

OSQ-HO	A	NM						
Product	**Version**	**Mounting**	**Optic**	**Lumen Package****	**CCT**	**Voltage**	**Color Options**	**Options**
OSQ-HO	**A**	**NM** No Mount	**Asymmetric** **2ME*** Type II Medium **4ME*** Type IV Medium **3ME*** Type III Medium **AF*** Automotive FrontlineOptic™ **Symmetric** **5ME** Type V Medium **40D** 40° Flood **5SH** Type V Short **60D** 60° Flood **15D** 15° Flood **120D** 120° Flood **25D** 25° Flood **WSN** Wide Sign	**40L** **50L** **65L**	**30K** 3000K - 70 CRI **40K** 4000K - 70 CRI **50K** 5000K - 90 CRI **57K** 5700K - 70 CRI	**UL** Universal 120-277V - All lumen packages **UH** Universal 347-480V - 40L & 50L lumen packages only **UM** Universal 208-480V - 65L lumen package only	**BK** Black **BZ** Bronze **SV** Silver **WH** White	**F** **Fuse** - Compatible only with 120V, 277V or 347V (phase to neutral) - Consult factory if fusing is required for 208V, 240V or 480V (phase to phase) - Refer to PML spec sheet for availability with PML options - When code dictates fusing, use time delay fuse **PML** **Programmable Multi-Level, up to 40' Mounting Height** - Refer to PML spec sheet for details - Not available with 65L - Intended for downlight applications at 0° tilt **Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1** **Field Adjustable Output** - Must select Q9, Q8, Q7, Q6, Q5, Q4, Q3, Q2, or Q1 - Not available with 65L when ordered w/R option - Offers full range adjustability - Refer to pages 14-16 for power and lumen values **R** NEMA® 7-Pin Photocell Receptacle - 7-pin receptacle per ANSI C136.41 - Intended for downlight applications with maximum 45° tilt - Factory connected 0-10V dim leads - 12" (305mm) seven-conductor leads exit luminaire - Requires photocell and shorting cap by others - Not available with 65L when ordered w/Q option **RL** **Rotate Left** - LED and optic are rotated to the left - Refer to RR/RL configuration diagram on page 13 for optic directionality **RR** **Rotate Right** - LED and optic are rotated to the right - Refer to RR/RL configuration diagram on page 13 for optic directionality

* Available with Backlight Shield when ordered with field-installed accessory (see table above)

** Lumen Package selection codes identify approximate light output only. Actual lumen output levels vary depending on CCT and optic selection. Refer to Initial Delivered Lumen tables for specific lumen values

US: creelighting.com (800) 236-6800

Canada: creelighting-canada.com (800) 473-1234

Product Specifications

CREE TRUEWHITE® TECHNOLOGY

A revolutionary way to generate high-quality white light, Cree TrueWhite® Technology is a patented approach that delivers an exclusive combination of 90+ CRI, beautiful light characteristics and lifelong color consistency, all while maintaining high luminous efficacy – a true no compromise solution.

CONSTRUCTION & MATERIALS

- Slim, low profile design minimizes wind load requirements
- Luminaire housing is rugged die cast aluminum with an integral, weathertight LED driver compartment and high-performance heat sink
- Convenient interlocking mounting method on direct arm mount. Mounting adaptor is rugged die cast aluminum and mounts to 3" (76mm) or larger square or round pole, secured by two 5/16-18 UNC bolts spaced on 2" (51mm) centers
- Adjustable arm that mounts to a horizontal or vertical 2" (51mm) IP, 2.375-2.50" (60-64mm) O.D. steel tenon. Tenon length must be a minimum of 3.75" (95mm)
- Adjustable arm mount can be adjusted 180° in 5.0° increments
- Includes 12" (305mm) 18/5 or 16/5 leads exiting the luminaire. When ordered with R option, 12" (305mm) 18/7 or 16/7 leads are provided
- Designed for uplight and downlight applications
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver, bronze, black, and white are available
- **Weight:** See Dimension and Weight Chart on pages 1 and 13

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V, 208-480V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- Designed with 0-10V dimming capabilities. For 65L SKUs with UL voltage, dimming control lines must be >1V when operated at 277V. Controls by others
- Refer to Dimming spec sheet for details
- **Maximum 10V Source Current:** 0.30mA
- **Operating Temperature Range:** -40°C to 40°C (-40° F to 104° F)

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Consult factory for CE Certified products
- Certified to ANSI C136.31-2001, 1.5G vibration standards
- ANSI C136.2 10kV surge protection, tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Meets Buy American requirements within ARRA
- RoHS compliant. Consult factory for additional details
- DLC and DLC Premium qualified versions available. Some exceptions apply. Please refer to https://www.designlights.org/search/ for most current information
- OSQ-HO luminaires are enclosure rated IP66 per IEC 60598-1 when ordered without the R option
- Dark Sky Friendly, IDA Approved when ordered with 30K CCT and DA mount only. Please refer to https://www.darksky.org/our-work/lighting/lighting-for-industry/fsa/fsa-products/ for most current information
- **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – www.p65warnings.ca.gov

Product Specifications

SYNAPSE® SIMPLYSNAP INTELLIGENT CONTROL

The Synapse SimplySNAP platform is a highly intuitive connected lighting solution featuring zone dimming, motion sensing, and daylight harvesting with utility-grade power monitoring and support of up to 1000 nodes per gateway. The system features a reliable and robust self-healing mesh network with a browser-based interface that runs on smartphones, tablets, and PCs. The Twist-Lock Lighting Controller (TL7-B2) and Site Controller (SS450-002) take the OSQ Series to a new performance plateau, providing extreme energy productivity, code compliance and a better light experience.

Electrical Data*

Lumen Package	System Watts 120-480V	Total Current (A)					
		120V	208V	240V	277V	347V	480V
40L	341	2.93	1.65	1.43	1.23	1.00	0.71
50L	420	3.61	2.03	1.76	1.51	1.23	0.87
65L	550	4.73	2.66	2.30	1.98	1.59	1.15

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V or 347-480V +/- 10%

OSQ Series (OSQ-HO) Ambient Adjusted Lumen Maintenance[1]

Ambient	Optic	Initial LMF	25K hr Reported[2] LMF	50K hr Reported[2] LMF	75K hr Reported[2] LMF	100K hr Reported[2] LMF
5°C (41°F)	Asymmetric	1.04	1.03	1.01	0.99	0.97
	Symmetric	1.05	1.04	1.03	1.03	1.02
10°C (50°F)	Asymmetric	1.03	1.02	1.00	0.98	0.96
	Symmetric	1.04	1.03	1.02	1.01	1.00
15°C (59°F)	Asymmetric	1.02	1.01	0.99	0.97	0.95
	Symmetric	1.02	1.02	1.01	1.00	0.99
20°C (68°F)	Asymmetric	1.01	1.00	0.98	0.96	0.94
	Symmetric	1.01	1.01	1.00	0.99	0.98
25°C (77°F)	Asymmetric	1.00	0.99	0.97	0.95	0.93
	Symmetric	1.00	0.99	0.98	0.98	0.97

[1] Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors. Please refer to the Temperature Zone Reference Document for outdoor average nighttime ambient conditions.
[2] In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.

Accessories

Field-Installed

Backlight Shield (One pair)
OSQ-HO-BLSF
– Front facing optics
OSQ-HO-BLSR
– Rotated optics

Shorting Cap
XA-XSLSHRT

Hand-Held Remote
XA-SENSREM
- For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required

Synapse Wireless Control Accessories

Twist-Lock Lighting Controller
TL7-B2
- Suitable for 120-277V (UL) voltage only
- Requires NEMA/ANSI C136.41 7-Pin Dimming Receptacle
- Not for use with PML or Q options
- Provides On/Off switching, dimming, power metering, digital sensor input, and status monitoring of luminaires
- Refer to TL7-B2 spec sheet for details

SimplySNAP Central Base Station
CBSSW-450-002
- Includes On-Site Controller (SS450-002) and 5-button switch
- Indoor and Outdoor rated
- Refer to CBSSW-450-002 spec sheet for details

Synapse Wireless Sensor
WSN-DPM
-Motion and light sensor
-Control multiple zones
- Refer to WSN-DPM spec sheet for details

SimplySNAP On-Site Controller
SS450-002
- Verizon® LTE-enabled
- Designed for indoor applications
- Refer to SS450-002 spec sheet for details

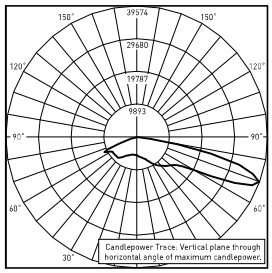
Building Management System (BMS) Gateway
BMS-GW-002
- Required for BACnet integration
- Refer to BMS-GW-002 spec sheet for details

Outdoor Antennas
(Optional, for increased range, 8dB gain)
KIT-ANT420SM
- Kit includes antenna, 20' cable and bracket
KIT-ANT360
- Kit includes antenna, 30' cable and bracket
KIT-ANT600
- Kit includes antenna, 50' cable and bracket
- Refer to Outdoor antenna spec sheet for details

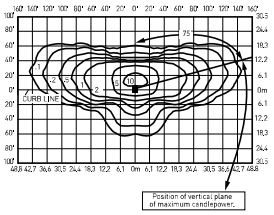
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: http://creelighting.com/products/outdoor/area/area-osq-high-output

2ME



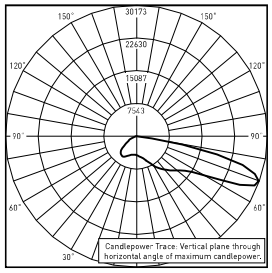
CESTL Test Report #: PL10951-001A
OSQ-HO-A-**-2ME-40L-40K-UL
Initial Delivered Lumens: 45,012



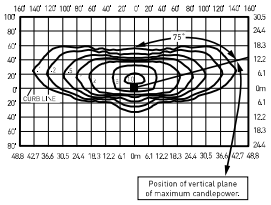
OSQ-HO-A-**-2ME-40L-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 41,880
Initial FC at grade

Type II Medium Distribution								
Lumen Package	3000K/70 CRI		4000K/70 CRI		5000K/90 CRI		5700K/70 CRI	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
40L	39,751	B4 U0 G4	41,880	B4 U0 G5	33,920	B4 U0 G4	42,702	B4 U0 G5
50L	48,950	B4 U0 G5	51,571	B4 U0 G5	41,434	B4 U0 G5	52,583	B4 U0 G5
65L	63,945	B5 U0 G5	67,369	B5 U0 G5	53,848	B4 U0 G5	68,691	B5 U0 G5

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt



CESTL Test Report #: PL10952-001A
OSQ-HO-A-**-2ME-40L-40K-UL
w/OSQ-HO-BLSF
Initial Delivered Lumens: 35,531



OSQ-HO-A-**-2ME-40L-40K-UL
w/OSQ-HO-BLSF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 33,504
Initial FC at grade

Type II Medium w/BLS Distribution								
Lumen Package	3000K/70 CRI		4000K/70 CRI		5000K/90 CRI		5700K/70 CRI	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
40L	31,801	B3 U0 G4	33,504	B3 U0 G4	27,136	B3 U0 G4	34,162	B3 U0 G4
50L	39,160	B3 U0 G4	41,257	B3 U0 G5	33,147	B3 U0 G4	42,066	B3 U0 G5
65L	51,156	B3 U0 G5	53,895	B3 U0 G5	43,078	B3 U0 G5	54,953	B3 U0 G5

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

Photometry

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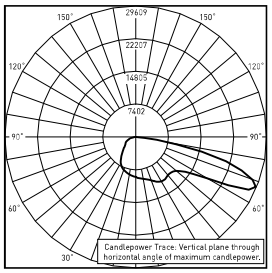
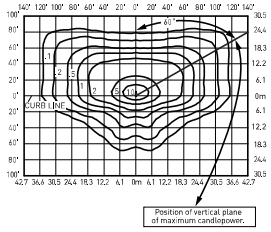
3ME



CESTL Test Report #: PL10953-001A
OSQ-HO-A-**-3ME-40L-40K-UL
Initial Delivered Lumens: 44,770



OSQ-HO-A-**-3ME-40L-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 41,880
Initial FC at grade

Type III Medium Distribution								
Lumen Package	3000K/70 CRI		4000K/70 CRI		5000K/90 CRI		5700K/70 CRI	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
40L	39,751	B4 U0 G5	41,880	B4 U0 G5	33,920	B4 U0 G4	42,702	B4 U0 G5
50L	48,950	B4 U0 G5	51,571	B4 U0 G5	41,434	B4 U0 G5	52,583	B4 U0 G5
65L	63,945	B4 U0 G5	67,369	B5 U0 G5	53,848	B4 U0 G5	68,691	B5 U0 G5

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
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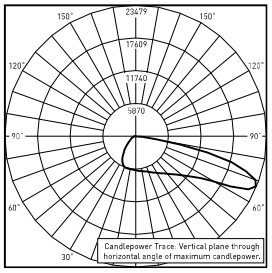
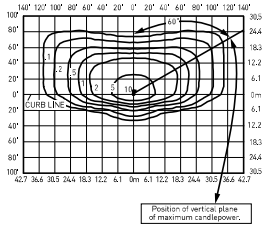


CESTL Test Report #: PL10954-001A
OSQ-HO-A-**-3ME-40L-40K-UL
w/OSQ-HO-BLSF
Initial Delivered Lumens: 32,977



OSQ-HO-A-**-3ME-40L-40K-UL
w/OSQ-HO-BLSF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 34,342
Initial FC at grade

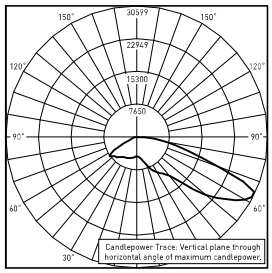
Type III Medium w/BLS Distribution								
Lumen Package	3000K/70 CRI		4000K/70 CRI		5000K/90 CRI		5700K/70 CRI	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
40L	32,596	B3 U0 G4	34,342	B3 U0 G5	27,814	B3 U0 G4	35,016	B3 U0 G5
50L	40,139	B3 U0 G5	42,288	B4 U0 G5	33,976	B3 U0 G5	43,118	B4 U0 G5
65L	52,435	B4 U0 G5	55,243	B4 U0 G5	44,155	B4 U0 G5	56,327	B4 U0 G5

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

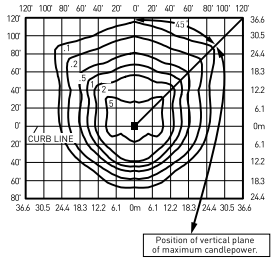
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: http://creelighting.com/products/outdoor/area/area-osq-high-output

4ME



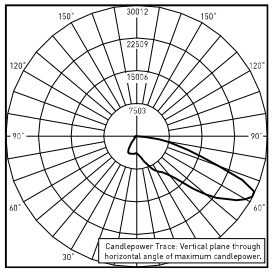
CESTL Test Report #: PL09256-001A
OSQ-HO-A-**-4ME-40L-40K-UL
Initial Delivered Lumens: 44,936



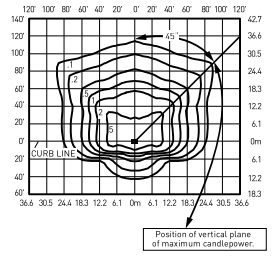
OSQ-HO-A-**-4ME-40L-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 41,880
Initial FC at grade

Type IV Medium Distribution								
Lumen Package	3000K/70 CRI		4000K/70 CRI		5000K/90 CRI		5700K/70 CRI	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
40L	39,751	B4 U0 G4	41,880	B5 U0 G4	33,920	B4 U0 G4	42,702	B5 U0 G4
50L	48,950	B5 U0 G5	51,571	B5 U0 G5	41,434	B4 U0 G4	52,583	B5 U0 G5
65L	63,945	B5 U0 G5	67,369	B5 U0 G5	53,848	B5 U0 G5	68,691	B5 U0 G5

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt



CESTL Test Report #: PL09256-002A
OSQ-HO-A-**-4ME-40L-40K-UL
w/OSQ-HO-BLSF
Initial Delivered Lumens: 35,406



OSQ-HO-A-**-4ME-40L-40K-UL
w/OSQ-HO-BLSF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 33,085
Initial FC at grade

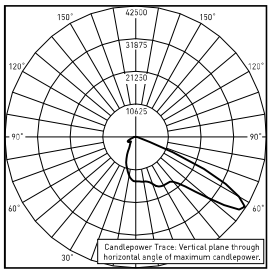
Type IV Medium w/BLS Distribution								
Lumen Package	3000K/70 CRI		4000K/70 CRI		5000K/90 CRI		5700K/70 CRI	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
40L	31,403	B3 U0 G4	33,085	B3 U0 G4	26,797	B3 U0 G4	33,735	B3 U0 G4
50L	38,671	B3 U0 G5	40,741	B3 U0 G5	32,733	B3 U0 G4	41,541	B3 U0 G5
65L	50,517	B4 U0 G5	53,222	B4 U0 G5	42,540	B3 U0 G5	54,266	B4 U0 G5

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

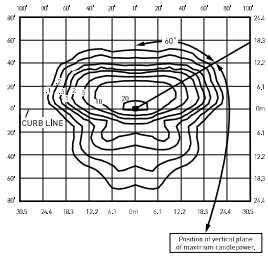
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: http://creelighting.com/products/outdoor/area/area-osq-high-output

AF



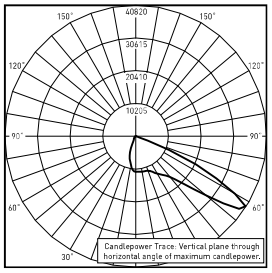
CESTL Test Report #: PL10910-001A
OSQ-HO-A-**-AF-40L-40K-UL
Initial Delivered Lumens: 44,921



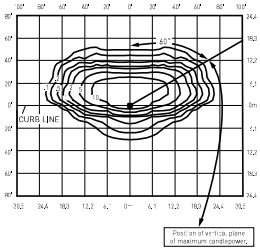
OSQ-HO-A-**-AF-40L-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 41,880
Initial FC at grade

Automotive FrontLineOptic™ Distribution								
Lumen Package	3000K/70 CRI		4000K/70 CRI		5000K/90 CRI		5700K/70 CRI	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
40L	39,751	B4 U0 G3	41,880	B4 U0 G3	33,920	B3 U0 G3	42,702	B4 U0 G3
50L	48,950	B4 U0 G3	51,571	B4 U0 G3	41,434	B4 U0 G3	52,583	B4 U0 G3
65L	63,945	B4 U0 G4	67,369	B4 U0 G4	53,848	B4 U0 G3	68,691	B4 U0 G4

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt



CESTL Test Report #: PL10911-001A
OSQ-HO-A-**-AF-40L-40K-UL
w/OSQ-HO-BLSF
Initial Delivered Lumens: 35,558



OSQ-HO-A-**-AF-40L-40K-UL
w/OSQ-HO-BLSF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 33,151
Initial FC at grade

Automotive FrontLineOptic™ w/BLS Distribution								
Lumen Package	3000K/70 CRI		4000K/70 CRI		5000K/90 CRI		5700K/70 CRI	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
40L	31,466	B3 U0 G2	33,151	B3 U0 G2	26,850	B3 U0 G2	33,802	B3 U0 G2
50L	38,747	B3 U0 G2	40,822	B3 U0 G3	32,798	B3 U0 G2	41,623	B3 U0 G3
65L	50,617	B4 U0 G3	53,327	B4 U0 G3	42,625	B3 U0 G3	54,374	B4 U0 G3

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

Photometry

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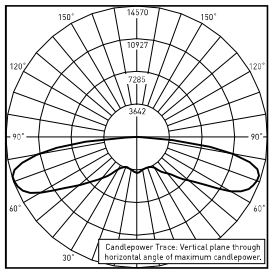
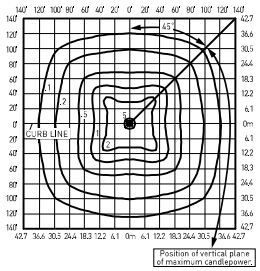
5ME



CESTL Test Report #: PL09257-001A
OSQ-HO-A-**-5ME-40L-40K-UL
Initial Delivered Lumens: 35,159

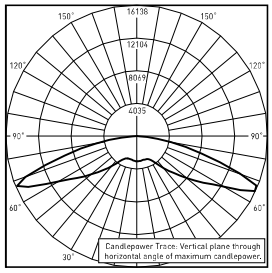


OSQ-HO-A-**-5ME-40L-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 39,332
Initial FC at grade

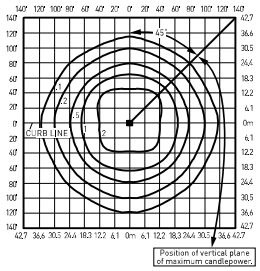
Type V Medium Distribution								
Lumen Package	3000K/70 CRI		4000K/70 CRI		5000K/90 CRI		5700K/70 CRI	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
40L	37,169	B5 U0 G5	39,332	B5 U0 G5	31,689	B5 U0 G5	40,155	B5 U0 G5
50L	45,389	B5 U0 G5	48,031	B5 U0 G5	38,871	B5 U0 G5	49,035	B5 U0 G5
65L	59,011	B5 U0 G5	62,445	B5 U0 G5	49,959	B5 U0 G5	63,751	B5 U0 G5

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

5SH



CESTL Test Report #: PL09258-001A
OSQ-HO-A-**-5SH-40L-40K-UL
Initial Delivered Lumens: 42,362



OSQ-HO-A-**-5SH-40L-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 41,542
Initial FC at grade

Type V Short Distribution								
Lumen Package	3000K/70 CRI		4000K/70 CRI		5000K/90 CRI		5700K/70 CRI	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
40L	39,258	B5 U0 G5	41,542	B5 U0 G5	33,469	B5 U0 G5	42,411	B5 U0 G5
50L	47,939	B5 U0 G5	50,729	B5 U0 G5	41,055	B5 U0 G5	51,790	B5 U0 G5
65L	62,326	B5 U0 G5	65,953	B5 U0 G5	52,766	B5 U0 G5	67,332	B5 U0 G5

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

Photometry

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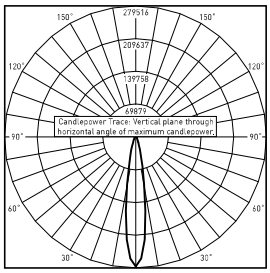
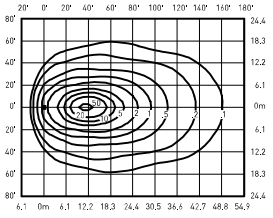
15D



CESTL Test Report #: PL09259-001A
OSQ-HO-A-**-15D-40L-40K-UL
Initial Delivered Lumens: 43,172

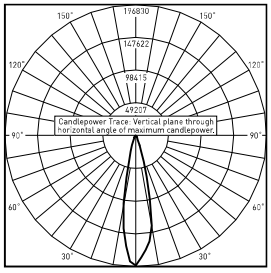


OSQ-HO-A-**-15D-40L-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 41,542
Initial FC at grade

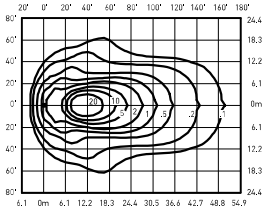
15° Flood Distribution				
Lumen Package	3000K/70 CRI	4000K/70 CRI	5000K/90 CRI	5700K/70 CRI
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
40L	39,258	41,542	33,469	42,411
50L	47,939	50,729	41,055	51,790
65L	62,326	65,953	52,766	67,332

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

25D



CESTL Test Report #: PL09260-001A
OSQ-HO-A-**-25D-40L-40K-UL
Initial Delivered Lumens: 43,263



OSQ-HO-A-**-25D-40L-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 41,542
Initial FC at grade

25° Flood Distribution				
Lumen Package	3000K/70 CRI	4000K/70 CRI	5000K/90 CRI	5700K/70 CRI
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
40L	39,258	41,542	33,469	42,411
50L	47,939	50,729	41,055	51,790
65L	62,326	65,953	52,766	67,332

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

Photometry

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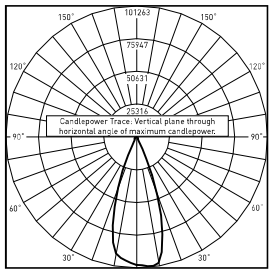
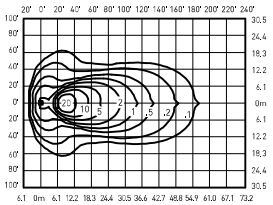
40D



CESTL Test Report #: PL09261-001A
OSQ-HO-A-**-40D-40L-40K-UL
Initial Delivered Lumens: 43,698

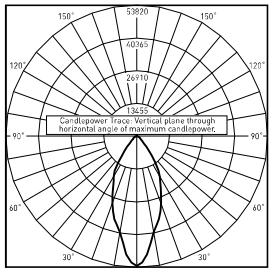


OSQ-HO-A-**-40D-40L-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 41,542
Initial FC at grade

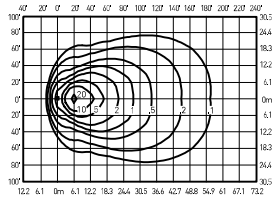
40° Flood Distribution				
Lumen Package	3000K/70 CRI	4000K/70 CRI	5000K/90 CRI	5700K/70 CRI
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
40L	39,258	41,542	33,469	42,411
50L	47,939	50,729	41,055	51,790
65L	62,326	65,953	52,766	67,332

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

60D



CESTL Test Report #: PL09262-001A
OSQ-HO-A-**-60D-40L-40K-UL
Initial Delivered Lumens: 42,715



OSQ-HO-A-**-60D-40L-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 41,542
Initial FC at grade

60° Flood Distribution				
Lumen Package	3000K/70 CRI	4000K/70 CRI	5000K/90 CRI	5700K/70 CRI
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
40L	39,258	41,542	33,469	42,411
50L	47,939	50,729	41,055	51,790
65L	62,326	65,953	52,766	67,332

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

Photometry

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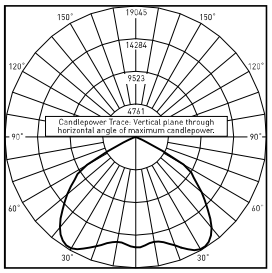
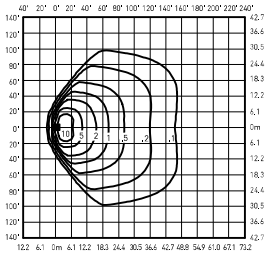
120D



CESTL Test Report #: PL09725-001A
OSQ-HO-A-**-120D-40L-40K-UL
Initial Delivered Lumens: 43,044

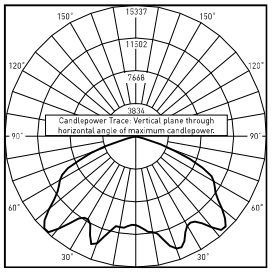


OSQ-HO-A-**-120D-40L-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 41,542
Initial FC at grade

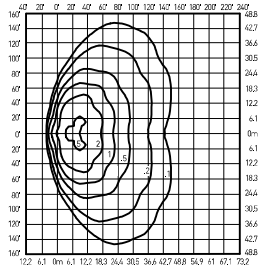
120° Flood Distribution				
Lumen Package	3000K/70 CRI	4000K/70 CRI	5000K/90 CRI	5700K/70 CRI
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
40L	39,258	41,542	33,469	42,411
50L	47,939	50,729	41,055	51,790
65L	62,326	65,953	52,766	67,332

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

WSN



CESTL Test Report #: PL07695-001A
OSQ-A-**-WSN-U-30K-UL
Initial Delivered Lumens: 23,116

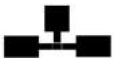


OSQ-HO-A-**-WSN-40L-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° tilt
Initial Delivered Lumens: 41,542
Initial FC at grade

Wide Sign Distribution				
Lumen Package	3000K/70 CRI	4000K/70 CRI	5000K/90 CRI	5700K/70 CRI
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
40L	39,258	41,542	33,469	42,411
50L	47,939	50,729	41,055	51,790
65L	62,326	65,953	52,766	67,332

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

Luminaire EPA

Adjustable Arm Mount – OSQ-HO-AA Weight: 40L/50L, 120-480V: 73.0 lbs. (33.1kg); 65L, 120-480V: 75.0 lbs. (34.0kg)							
Single	2 @ 180˚	2 @ 90˚	3 @ 90˚	3 @ 120˚	3 @ 180˚	4 @ 180˚	4 @ 90˚
Tenon Configuration (0˚-90˚ Tilt); If used with Cree Lighting tenons, please add tenon EPA with Luminaire EPA							
 PB-1A*; PW-1A3**	 PB-2A*; PB-2R2.375; PW-2A3**	 PB-2A*; PB-2R2.375; PW-2A3**	 PB-3A*; PB-3R2.375	 PB-3A*; PB-3R2.375	 PB-3A*; PB-3R2.375	 PB-4A*(180); PB-4R2.375	 PB-4A*(90); PB-4R2.3(90)
0˚ Tilt							
1.16	2.03	2.03	2.90	2.63	2.90	3.77	3.77
10˚ Tilt							
1.67	3.06	3.06	4.45	4.27	4.45	5.83	5.83
20˚ Tilt							
2.35	4.41	4.41	6.48	6.34	6.48	8.54	8.54
30˚ Tilt							
2.99	5.70	5.70	8.41	8.29	8.41	11.12	11.12
45˚ Tilt							
3.85	7.41	7.41	10.98	10.89	10.98	14.54	14.54
60˚ Tilt							
4.51	8.73	8.73	12.95	12.91	12.95	17.18	17.18
70˚ Tilt							
4.83	9.37	9.37	13.91	13.88	13.91	18.45	18.45
80˚ Tilt							
5.02	9.76	9.76	14.50	14.44	14.50	19.24	19.24
90˚ Tilt							
5.02	9.76	9.76	14.50	14.44	14.50	19.24	19.24

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation
** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")

Tenon EPA

Part Number	EPA
PB-1A*	None
PB-2A*	0.82
PB-3A*	1.52
PB-4A*(180)	2.22
PB-4A*(90)	1.11
PB-2R2.375	0.92
PB-3R2.375	1.62
PB-4R2.375	2.32
PW-1A3**	0.47
PW-2A3**	0.94
WM-2	0.08
WM-4	0.25
WM-DM	None

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation
** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")

Tenons and Brackets‡ (must specify color)

Square Internal Mount Vertical Tenons (Steel)
- Mounts to 3-6" (76-152mm) square aluminum or steel poles

PB-1A* – Single
PB-2A* – 180˚ Twin
PB-3A* – 180˚ Triple
PB-4A*(90) – 90˚ Quad
PB-4A*(180) – 180˚ Quad

Wall Mount Brackets
- Mounts to wall or roof

WM-2 – Horizontal for OSQ-HO-AA mount
WM-4 – L-Shape for OSQ-HO-AA mount
WM-DM – Plate for OSQ-HO-DA mount

Round External Mount Vertical Tenons (Steel)
- Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons

PB-2R2.375 – Twin
PB-3R2.375 – Triple
PB-4R2.375 – Quad

Mid-Pole Bracket
- Mounts to square pole

PW-1A3** – Single
PW-2A3** – Double

‡ Refer to the Bracket and Tenons spec sheet for more details

Luminaire EPA

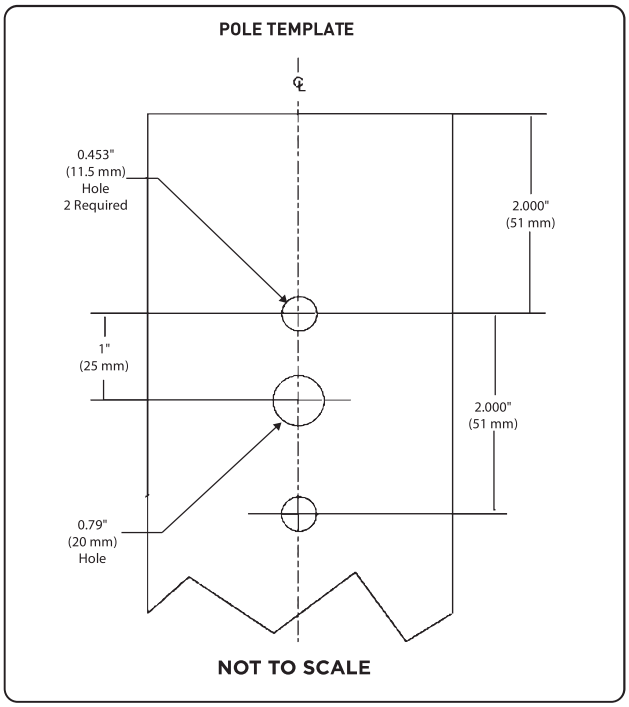
Fixed Arm Mount – OSQ-HO-DA Weight: 40L/50L, 120-480V: 70.0 lbs. (31.8kg); 65L, 120-480V: 72.0 lbs. (32.7kg)					
Single	2 @ 180˚	2 @ 90˚	3 @ 90˚	3 @ 120˚	4 @ 90˚
1.06	1.93	1.93	2.80	2.53	3.67

Direct Mount Configurations

Compatibility with OSQ-HO-DA Direct Arm Mount					
Input Delivered Lumens	2 @ 90˚	2 @ 180˚	3 @ 90˚	3 @ 120˚	4 @ 90˚
3" Square					
40L/50L/65L	N/A	✓	N/A	N/A	N/A
3" Round					
40L/50L/65L	N/A	✓	N/A	✓	N/A
4" Square					
40L/50L/65L	✓	✓	✓	N/A	✓
4" Round*					
40L/50L/65L	✓	✓	✓	✓	✓
5" Square					
40L/50L/65L	✓	✓	✓	N/A	✓
5" Round					
40L/50L/65L	✓	✓	✓	✓	✓
6" + Square					
40L/50L/65L	✓	✓	✓	N/A	✓
6" + Round					
40L/50L/65L	✓	✓	✓	✓	✓

* Note: only 0.10" clearance between mounts on 4 @ 90˚

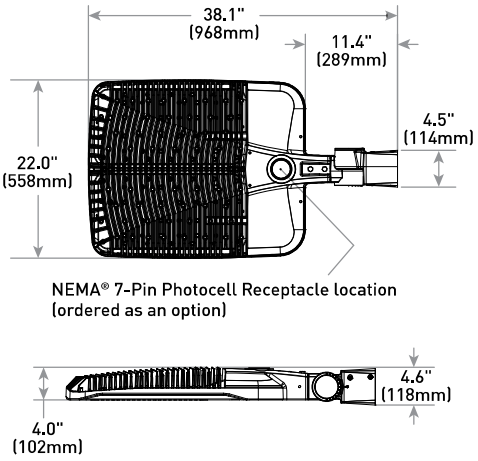
Fixture Mounting Drill Pattern for OSQ-HO-DA



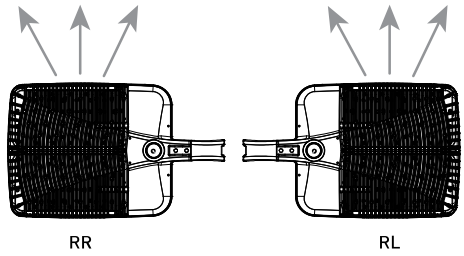
AA Mount



Lumen Package	Voltage	Weight
40/50L	120-480V	73.0 lbs. (33.1kg)
65L	120-480V	75.0 lbs. (34.0kg)



RR/RL Configuration



Field Adjustable Output (Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the OSQ High Output area luminaires to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected Q setting and will be fully adjustable between the nine settings.

Q Option Power & Lumen Data – 40L

Q Option Setting	CCT	System Watts	Lumen Values							Optics Qualified on DLC QPL	
		120-480V	Asymmetric	5ME	5SH & Floods	2ME w/BLS	3ME w/BLS	4ME w/BLS	AF w/BLS	Standard	Premium
Q9 (Full Power)	30K	341	39,751	37,169	39,258	31,801	32,596	31,403	31,466	5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	2ME, 3ME, 4ME, AF
	40K		41,880	39,332	41,542	33,504	34,342	33,085	33,151	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		33,920	31,689	33,469	27,136	27,814	26,797	26,850	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		42,702	40,155	42,411	34,162	35,016	33,735	33,802	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q8	30K	324	38,273	35,787	37,799	30,619	31,384	30,236	30,296	5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	2ME, 3ME, 4ME, AF
	40K		40,323	37,870	39,998	32,259	33,065	31,855	31,919	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		32,659	30,511	32,225	26,127	26,780	25,801	25,852	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		41,115	38,662	40,834	32,892	33,714	32,481	32,545	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q7	30K	306	36,375	34,012	35,923	29,100	29,827	28,736	28,793	5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	2ME, 3ME, 4ME, AF
	40K		38,323	35,991	38,013	30,658	31,425	30,275	30,335	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		31,039	28,997	30,626	24,831	25,451	24,521	24,569	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		39,075	36,744	38,809	31,260	32,042	30,870	30,931	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q6	30K	289	35,206	32,919	34,770	28,165	28,869	27,813	27,868	5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	2ME, 3ME, 4ME, AF
	40K		37,092	34,835	36,793	29,673	30,416	29,302	29,361	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		30,042	28,066	29,642	24,034	24,634	23,733	23,780	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		37,820	35,564	37,562	30,256	31,013	29,878	29,937	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q5	30K	263	32,241	30,146	31,841	25,793	26,437	25,470	25,521	5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	2ME, 3ME, 4ME, AF
	40K		33,967	31,901	33,693	27,174	27,854	26,834	26,888	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		27,511	25,702	27,146	22,009	22,559	21,734	21,777	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		34,634	32,568	34,398	27,708	28,400	27,361	27,415	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q4	30K	238	30,029	28,078	29,656	24,023	24,624	23,722	23,770	5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	2ME, 3ME, 4ME, AF
	40K		31,637	29,712	31,381	25,309	25,943	24,993	25,043	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		25,624	23,938	25,283	20,499	21,011	20,243	20,283	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		32,258	30,334	32,038	25,807	26,452	25,484	25,534	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q3	30K	212	26,969	25,217	26,634	21,575	22,115	21,305	21,348	5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	2ME, 3ME, 4ME, AF
	40K		28,413	26,685	28,184	22,731	23,299	22,446	22,491	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		23,013	21,499	22,707	18,410	18,870	18,180	18,216	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		28,971	27,243	28,774	23,177	23,756	22,887	22,933	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q2	30K	189	24,420	22,834	24,117	19,536	20,025	19,292	19,330	5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	2ME, 3ME, 4ME, AF
	40K		25,728	24,163	25,520	20,582	21,097	20,325	20,366	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		20,838	19,467	20,561	16,670	17,087	16,462	16,495	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		26,233	24,668	26,054	20,987	21,511	20,724	20,765	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q1	30K	169	22,108	20,672	21,834	17,687	18,129	17,465	17,500	5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	2ME, 3ME, 4ME, AF
	40K		23,292	21,875	23,105	18,634	19,100	18,401	18,438	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		18,865	17,625	18,615	15,092	15,469	14,904	14,933	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		23,750	22,333	23,588	19,000	19,475	18,762	18,800	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN

Field Adjustable Output (Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the OSQ High Output area luminaires to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected Q setting and will be fully adjustable between the nine settings.

Q Option Power & Lumen Data – 50L

Q Option Setting	CCT	System Watts	Lumen Values							Optics Qualified on DLC QPL	
		120-480V	Asymmetric	5ME	5SH & Floods	2ME w/BLS	3ME w/BLS	4ME w/BLS	AF w/BLS	Standard	Premium
Q9 (Full Power)	30K	420	48,950	45,389	47,939	39,160	40,139	38,671	38,747	5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	2ME, 3ME, 4ME, AF
	40K		51,571	48,031	50,729	41,257	42,288	40,741	40,822	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		41,434	38,871	41,055	33,147	33,976	32,733	32,798	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		52,583	49,035	51,790	42,066	43,118	41,541	41,623	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q8	30K	398	47,130	43,702	46,157	37,704	38,647	37,233	37,307	5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	2ME, 3ME, 4ME, AF
	40K		49,654	46,245	48,843	39,723	40,716	39,227	39,305	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		39,894	37,426	39,529	31,915	32,713	31,516	31,579	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		50,628	47,212	49,865	40,503	41,515	39,996	40,076	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q7	30K	377	44,792	41,534	43,867	35,834	36,730	35,386	35,456	5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	2ME, 3ME, 4ME, AF
	40K		47,191	43,951	46,420	37,752	38,696	37,281	37,355	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		37,915	35,569	37,568	30,332	31,090	29,953	30,012	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		48,117	44,870	47,391	38,493	39,456	38,012	38,088	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q6	30K	355	43,354	40,200	42,458	34,683	35,550	34,249	34,317	5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	2ME, 3ME, 4ME, AF
	40K		45,675	42,540	44,929	36,540	37,453	36,083	36,155	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		36,697	34,427	36,361	29,357	30,091	28,991	29,048	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		46,571	43,429	45,869	37,257	38,188	36,791	36,864	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q5	30K	324	39,702	36,813	38,882	31,761	32,555	31,364	31,427	5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	2ME, 3ME, 4ME, AF
	40K		41,827	38,956	41,145	33,462	34,298	33,044	33,109	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		33,606	31,527	33,298	26,885	27,557	26,548	26,601	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		42,648	39,771	42,005	34,119	34,972	33,692	33,759	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q4	30K	292	36,978	34,288	36,214	29,582	30,322	29,212	29,270	5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	2ME, 3ME, 4ME, AF
	40K		38,958	36,283	38,322	31,166	31,945	30,776	30,838	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		31,300	29,364	31,014	25,040	25,666	24,727	24,776	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		39,722	37,042	39,123	31,778	32,572	31,380	31,443	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q3	30K	261	33,210	30,794	32,524	26,568	27,232	26,236	26,288	5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	2ME, 3ME, 4ME, AF
	40K		34,988	32,586	34,417	27,991	28,690	27,641	27,696	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		28,111	26,372	27,854	22,489	23,051	22,207	22,252	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		35,675	33,268	35,137	28,540	29,253	28,183	28,239	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q2	30K	233	30,071	27,884	29,450	24,057	24,658	23,756	23,804	5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	2ME, 3ME, 4ME, AF
	40K		31,700	29,500	31,200	25,300	26,000	25,000	25,100	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		25,500	23,900	25,200	20,400	20,900	20,100	20,100	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		32,300	30,100	31,800	25,800	26,500	25,500	25,600	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q1	30K	208	27,225	25,244	26,662	21,780	22,324	21,507	21,550	5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	2ME, 3ME, 4ME, AF
	40K		28,682	26,714	28,214	22,946	23,520	22,659	22,704	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		23,044	21,619	22,834	18,436	18,896	18,205	18,241	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		29,245	27,272	28,804	23,396	23,981	23,104	23,150	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN

Field Adjustable Output (Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the OSQ High Output area luminaires to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected Q setting and will be fully adjustable between the nine settings.

Q Option Power & Lumen Data – 65L

Q Option Setting	CCT	System Watts	Lumen Values							Optics Qualified on DLC QPL	
		120-480V	Asymmetric	5ME	5SH & Floods	2ME w/BLS	3ME w/BLS	4ME w/BLS	AF w/BLS	Standard	Premium
Q9 (Full Power)	30K	550	63,945	59,011	62,326	51,156	52,435	50,517	50,617	2ME, 3ME, 4ME, AF, 5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	40K		67,369	62,445	65,953	53,895	55,243	53,222	53,327	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		53,848	49,959	52,766	43,078	44,155	42,540	42,625	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		68,691	63,751	67,332	54,953	56,327	54,266	54,374	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q8	30K	521	61,568	56,817	60,009	49,254	50,486	48,639	48,735	2ME, 3ME, 4ME, AF, 5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	40K		64,865	60,124	63,501	51,892	53,189	51,243	51,345	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		51,846	48,102	50,804	41,477	42,514	40,959	41,040	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		66,137	61,381	64,829	52,910	54,233	52,249	52,353	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q7	30K	493	58,513	53,999	57,032	46,811	47,981	46,226	46,318	2ME, 3ME, 4ME, AF, 5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	40K		61,647	57,141	60,351	49,317	50,550	48,701	48,798	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		49,274	45,715	48,284	39,419	40,405	38,927	39,004	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		62,856	58,336	61,613	50,285	51,542	49,657	49,755	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q6	30K	465	56,634	52,264	55,200	45,307	46,440	44,741	44,830	2ME, 3ME, 4ME, AF, 5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	40K		59,667	55,306	58,413	47,733	48,927	47,137	47,231	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		47,692	44,247	46,733	38,153	39,107	37,676	37,751	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		60,838	56,462	59,634	48,670	49,887	48,062	48,157	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q5	30K	424	51,864	47,862	50,550	41,491	42,528	40,972	41,054	2ME, 3ME, 4ME, AF, 5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	40K		54,641	50,647	53,492	43,713	44,805	43,166	43,252	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		43,674	40,520	42,797	34,939	35,813	34,503	34,571	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		55,713	51,706	54,611	44,570	45,685	44,013	44,101	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q4	30K	383	48,305	44,578	47,082	38,644	39,610	38,161	38,237	2ME, 3ME, 4ME, AF, 5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	40K		50,892	47,172	49,822	40,713	41,731	40,204	40,284	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		40,678	37,740	39,860	32,542	33,356	32,135	32,199	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		51,890	48,159	50,864	41,512	42,550	40,993	41,075	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q3	30K	344	43,383	40,036	42,285	34,707	35,574	34,273	34,341	2ME, 3ME, 4ME, AF, 5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	
	40K		45,706	42,366	44,746	36,565	37,479	36,108	36,180	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		36,533	33,895	35,799	29,226	29,957	28,861	28,919	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	
	57K		46,603	43,252	45,681	37,283	38,215	36,817	36,890	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q2	30K	304	39,283	36,252	38,288	31,426	32,212	31,034	31,095	2ME, 3ME, 4ME, AF, 5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	40K		41,387	38,362	40,517	33,109	33,937	32,695	32,760	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		33,080	30,691	32,416	26,464	27,126	26,133	26,185	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		42,199	39,164	41,364	33,759	34,603	33,337	33,403	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q1	30K	269	35,564	32,820	34,664	28,452	29,163	28,096	28,152	2ME, 3ME, 4ME, AF, 5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	40K		37,469	34,730	36,681	29,975	30,724	29,600	29,659	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		29,949	27,786	29,347	23,959	24,558	23,660	23,707	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		38,204	35,457	37,448	30,563	31,327	30,181	30,241	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN

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Canada: creelighting-canada.com (800) 473-1234

CREE LIGHTING
A COMPANY OF *IDEAL INDUSTRIES, INC.*

OSQ Series

OSQ™ High Output LED Area/Flood Luminaire featuring Cree TrueWhite® Technology

TYPE N

OSQ-HO-A-NM-3ME-40L-57K-UL-BK/OSQ-HO-DA-BK

Rev. Date: V13 10/26/2020

Product Description

The OSQ™ High Output Area/Flood luminaire blends extreme optical control, advanced thermal management and modern, clean aesthetics. Built to last, the housing is rugged cast aluminum with an integral, weathertight LED driver compartment. Versatile mounting configurations offer simple installation. Its slim, low-profile design minimizes wind load requirements and blends seamlessly into the site providing even, quality illumination. The OSQ high output luminaire is a suitable upgrade for HID applications with one or even multiple 1000 Watt luminaires.

Applications: Auto dealerships, parking lots, campuses, facade lighting, high-mast and general site lighting applications

Performance Summary

Utilizes Cree TrueWhite® Technology on 5000K Luminaires

NanoOptic® Precision Delivery Grid™ optic

Assembled in the U.S.A. of U.S. and imported parts

Initial Delivered Lumens: Up to 68,691

Efficacy: Up to 125 LPW

CRI: Minimum 70 CRI (3000K, 4000K & 5700K); 90 CRI (5000K)

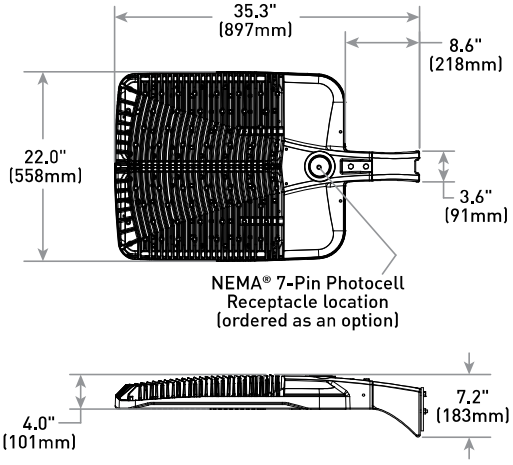
CCT: 3000K (+/- 300K), 4000K (+/- 300K), 5000K (+/- 300K), 5700K (+/- 500K)

Limited Warranty†: 10 years on luminaire; 10 years on Colorfast DeltaGuard® finish; up to 5 years for Synapse® accessories; 1 year on luminaire accessories

† See http://creelighting.com/warranty for warranty terms. For Synapse accessories, consult Synapse spec sheets for details on warranty terms.

DA Mount





Lumen Package	Voltage	Weight
40/50L	120-480V	70.0 lbs. (31.8kg)
65L	120-480V	72.0 lbs. (32.7kg)

Note: Refer to page 12 for fixture mounting drill pattern.

Ordering Information

Fully assembled luminaire is composed of two components that must be ordered separately:
Example: **Mount:** OSQ-HO-AA-SV + **Luminaire:** OSQ-HO-A-NM-2ME-40L-40K-UL-SV

Mount (Luminaire must be ordered separately)	
OSQ-HO-	
OSQ-HO-AA Adjustable Arm **OSQ-HO-DA** Direct Arm	**Color Options:** **SV** Silver **BK** Black **BZ** Bronze **WH** White

Note: Reference EPA and pole configuration suitability data beginning on page 11

Luminaire (Mount must be ordered separately)

OSQ-HO	A	NM						
Product	**Version**	**Mounting**	**Optic**	**Lumen Package****	**CCT**	**Voltage**	**Color Options**	**Options**
OSQ-HO	**A**	**NM** No Mount	**Asymmetric** **2ME*** Type II Medium **4ME*** Type IV Medium **3ME*** Type III Medium **AF*** Automotive FrontlineOptic™ **Symmetric** **5ME** Type V Medium **40D** 40° Flood **5SH** Type V Short **60D** 60° Flood **15D** 15° Flood **120D** 120° Flood **25D** 25° Flood **WSN** Wide Sign	**40L** **50L** **65L**	**30K** 3000K - 70 CRI **40K** 4000K - 70 CRI **50K** 5000K - 90 CRI **57K** 5700K - 70 CRI	**UL** Universal 120-277V - All lumen packages **UH** Universal 347-480V - 40L & 50L lumen packages only **UM** Universal 208-480V - 65L lumen package only	**BK** Black **BZ** Bronze **SV** Silver **WH** White	**F Fuse** - Compatible only with 120V, 277V or 347V (phase to neutral) - Consult factory if fusing is required for 208V, 240V or 480V (phase to phase) - Refer to PML spec sheet for availability with PML options - When code dictates fusing, use time delay fuse **PML Programmable Multi-Level, up to 40' Mounting Height** - Refer to PML spec sheet for details - Not available with 65L - Intended for downlight applications at 0° tilt **Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1 Field Adjustable Output** - Must select Q9, Q8, Q7, Q6, Q5, Q4, Q3, Q2, or Q1 - Not available with 65L when ordered w/R option - Offers full range adjustability - Refer to pages 14-16 for power and lumen values **R** NEMA® 7-Pin Photocell Receptacle - 7-pin receptacle per ANSI C136.41 - Intended for downlight applications with maximum 45° tilt - Factory connected 0-10V dim leads - 12" (305mm) seven-conductor leads exit luminaire - Requires photocell and shorting cap by others - Not available with 65L when ordered w/Q option **RL Rotate Left** - LED and optic are rotated to the left - Refer to RR/RL configuration diagram on page 13 for optic directionality **RR Rotate Right** - LED and optic are rotated to the right - Refer to RR/RL configuration diagram on page 13 for optic directionality

* Available with Backlight Shield when ordered with field-installed accessory (see table above)

** Lumen Package selection codes identify approximate light output only. Actual lumen output levels vary depending on CCT and optic selection. Refer to Initial Delivered Lumen tables for specific lumen values

US: creelighting.com (800) 236-6800

Canada: creelighting-canada.com (800) 473-1234

Product Specifications

CREE TRUEWHITE® TECHNOLOGY

A revolutionary way to generate high-quality white light, Cree TrueWhite® Technology is a patented approach that delivers an exclusive combination of 90+ CRI, beautiful light characteristics and lifelong color consistency, all while maintaining high luminous efficacy – a true no compromise solution.

CONSTRUCTION & MATERIALS

- Slim, low profile design minimizes wind load requirements
- Luminaire housing is rugged die cast aluminum with an integral, weathertight LED driver compartment and high-performance heat sink
- Convenient interlocking mounting method on direct arm mount. Mounting adaptor is rugged die cast aluminum and mounts to 3" (76mm) or larger square or round pole, secured by two 5/16-18 UNC bolts spaced on 2" (51mm) centers
- Adjustable arm that mounts to a horizontal or vertical 2" (51mm) IP, 2.375-2.50" (60-64mm) O.D. steel tenon. Tenon length must be a minimum of 3.75" (95mm)
- Adjustable arm mount can be adjusted 180° in 5.0° increments
- Includes 12" (305mm) 18/5 or 16/5 leads exiting the luminaire. When ordered with R option, 12" (305mm) 18/7 or 16/7 leads are provided
- Designed for uplight and downlight applications
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver, bronze, black, and white are available
- **Weight:** See Dimension and Weight Chart on pages 1 and 13

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V, 208-480V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- Designed with 0-10V dimming capabilities. For 65L SKUs with UL voltage, dimming control lines must be >1V when operated at 277V. Controls by others
- Refer to Dimming spec sheet for details
- **Maximum 10V Source Current:** 0.30mA
- **Operating Temperature Range:** -40°C to 40°C (-40° F to 104° F)

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Consult factory for CE Certified products
- Certified to ANSI C136.31-2001, 1.5G vibration standards
- ANSI C136.2 10kV surge protection, tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Meets Buy American requirements within ARRA
- RoHS compliant. Consult factory for additional details
- DLC and DLC Premium qualified versions available. Some exceptions apply. Please refer to https://www.designlights.org/search/ for most current information
- OSQ-HO luminaires are enclosure rated IP66 per IEC 60598-1 when ordered without the R option
- Dark Sky Friendly, IDA Approved when ordered with 30K CCT and DA mount only. Please refer to https://www.darksky.org/our-work/lighting/lighting-for-industry/fsa/fsa-products/ for most current information
- **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – www.p65warnings.ca.gov

Product Specifications

SYNAPSE® SIMPLYSNAP INTELLIGENT CONTROL

The Synapse SimplySNAP platform is a highly intuitive connected lighting solution featuring zone dimming, motion sensing, and daylight harvesting with utility-grade power monitoring and support of up to 1000 nodes per gateway. The system features a reliable and robust self-healing mesh network with a browser-based interface that runs on smartphones, tablets, and PCs. The Twist-Lock Lighting Controller (TL7-B2) and Site Controller (SS450-002) take the OSQ Series to a new performance plateau, providing extreme energy productivity, code compliance and a better light experience.

Electrical Data*

Lumen Package	System Watts 120-480V	Total Current (A)					
		120V	208V	240V	277V	347V	480V
40L	341	2.93	1.65	1.43	1.23	1.00	0.71
50L	420	3.61	2.03	1.76	1.51	1.23	0.87
65L	550	4.73	2.66	2.30	1.98	1.59	1.15

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V or 347-480V +/- 10%

OSQ Series (OSQ-HO) Ambient Adjusted Lumen Maintenance[1]

Ambient	Optic	Initial LMF	25K hr Reported[2] LMF	50K hr Reported[2] LMF	75K hr Reported[2] LMF	100K hr Reported[2] LMF
5°C (41°F)	Asymmetric	1.04	1.03	1.01	0.99	0.97
	Symmetric	1.05	1.04	1.03	1.03	1.02
10°C (50°F)	Asymmetric	1.03	1.02	1.00	0.98	0.96
	Symmetric	1.04	1.03	1.02	1.01	1.00
15°C (59°F)	Asymmetric	1.02	1.01	0.99	0.97	0.95
	Symmetric	1.02	1.02	1.01	1.00	0.99
20°C (68°F)	Asymmetric	1.01	1.00	0.98	0.96	0.94
	Symmetric	1.01	1.01	1.00	0.99	0.98
25°C (77°F)	Asymmetric	1.00	0.99	0.97	0.95	0.93
	Symmetric	1.00	0.99	0.98	0.98	0.97

[1] Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors. Please refer to the Temperature Zone Reference Document for outdoor average nighttime ambient conditions.
[2] In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.

Accessories

Field-Installed

Backlight Shield (One pair)
OSQ-HO-BLSF
– Front facing optics
OSQ-HO-BLSR
– Rotated optics

Shorting Cap
XA-XSLSHRT

Hand-Held Remote
XA-SENSREM
- For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required

Synapse Wireless Control Accessories

Twist-Lock Lighting Controller
TL7-B2
- Suitable for 120-277V (UL) voltage only
- Requires NEMA/ANSI C136.41 7-Pin Dimming Receptacle
- Not for use with PML or Q options
- Provides On/Off switching, dimming, power metering, digital sensor input, and status monitoring of luminaires
- Refer to TL7-B2 spec sheet for details

SimplySNAP Central Base Station
CBSSW-450-002
- Includes On-Site Controller (SS450-002) and 5-button switch
- Indoor and Outdoor rated
- Refer to CBSSW-450-002 spec sheet for details

Synapse Wireless Sensor
WSN-DPM
-Motion and light sensor
-Control multiple zones
- Refer to WSN-DPM spec sheet for details

SimplySNAP On-Site Controller
SS450-002
- Verizon® LTE-enabled
- Designed for indoor applications
- Refer to SS450-002 spec sheet for details

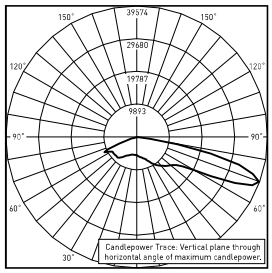
Building Management System (BMS) Gateway
BMS-GW-002
- Required for BACnet integration
- Refer to BMS-GW-002 spec sheet for details

Outdoor Antennas
(Optional, for increased range, 8dB gain)
KIT-ANT420SM
- Kit includes antenna, 20' cable and bracket
KIT-ANT360
- Kit includes antenna, 30' cable and bracket
KIT-ANT600
- Kit includes antenna, 50' cable and bracket
- Refer to Outdoor antenna spec sheet for details

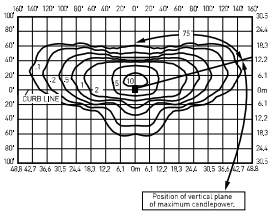
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: http://creelighting.com/products/outdoor/area/area-osq-high-output

2ME



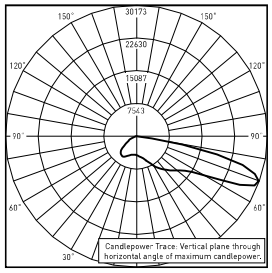
CESTL Test Report #: PL10951-001A
OSQ-HO-A-**-2ME-40L-40K-UL
Initial Delivered Lumens: 45,012



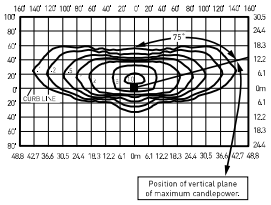
OSQ-HO-A-**-2ME-40L-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 41,880
Initial FC at grade

Type II Medium Distribution								
Lumen Package	3000K/70 CRI		4000K/70 CRI		5000K/90 CRI		5700K/70 CRI	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
40L	39,751	B4 U0 G4	41,880	B4 U0 G5	33,920	B4 U0 G4	42,702	B4 U0 G5
50L	48,950	B4 U0 G5	51,571	B4 U0 G5	41,434	B4 U0 G5	52,583	B4 U0 G5
65L	63,945	B5 U0 G5	67,369	B5 U0 G5	53,848	B4 U0 G5	68,691	B5 U0 G5

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt



CESTL Test Report #: PL10952-001A
OSQ-HO-A-**-2ME-40L-40K-UL
w/OSQ-HO-BLSF
Initial Delivered Lumens: 35,531



OSQ-HO-A-**-2ME-40L-40K-UL
w/OSQ-HO-BLSF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 33,504
Initial FC at grade

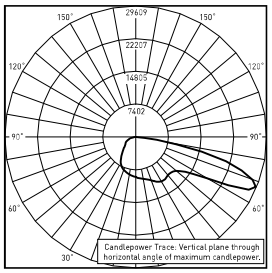
Type II Medium w/BLS Distribution								
Lumen Package	3000K/70 CRI		4000K/70 CRI		5000K/90 CRI		5700K/70 CRI	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
40L	31,801	B3 U0 G4	33,504	B3 U0 G4	27,136	B3 U0 G4	34,162	B3 U0 G4
50L	39,160	B3 U0 G4	41,257	B3 U0 G5	33,147	B3 U0 G4	42,066	B3 U0 G5
65L	51,156	B3 U0 G5	53,895	B3 U0 G5	43,078	B3 U0 G5	54,953	B3 U0 G5

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

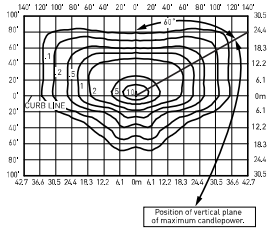
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: http://creelighting.com/products/outdoor/area/area-osq-high-output

3ME



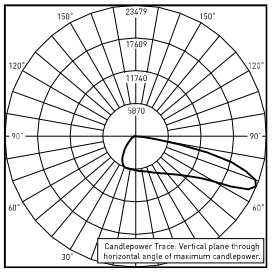
CESTL Test Report #: PL10953-001A
OSQ-HO-A-**-3ME-40L-40K-UL
Initial Delivered Lumens: 44,770



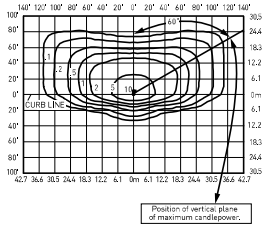
OSQ-HO-A-**-3ME-40L-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 41,880
Initial FC at grade

Type III Medium Distribution								
Lumen Package	3000K/70 CRI		4000K/70 CRI		5000K/90 CRI		5700K/70 CRI	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
40L	39,751	B4 U0 G5	41,880	B4 U0 G5	33,920	B4 U0 G4	42,702	B4 U0 G5
50L	48,950	B4 U0 G5	51,571	B4 U0 G5	41,434	B4 U0 G5	52,583	B4 U0 G5
65L	63,945	B4 U0 G5	67,369	B5 U0 G5	53,848	B4 U0 G5	68,691	B5 U0 G5

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt



CESTL Test Report #: PL10954-001A
OSQ-HO-A-**-3ME-40L-40K-UL
w/OSQ-HO-BLSF
Initial Delivered Lumens: 32,977



OSQ-HO-A-**-3ME-40L-40K-UL
w/OSQ-HO-BLSF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 34,342
Initial FC at grade

Type III Medium w/BLS Distribution								
Lumen Package	3000K/70 CRI		4000K/70 CRI		5000K/90 CRI		5700K/70 CRI	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
40L	32,596	B3 U0 G4	34,342	B3 U0 G5	27,814	B3 U0 G4	35,016	B3 U0 G5
50L	40,139	B3 U0 G5	42,288	B4 U0 G5	33,976	B3 U0 G5	43,118	B4 U0 G5
65L	52,435	B4 U0 G5	55,243	B4 U0 G5	44,155	B4 U0 G5	56,327	B4 U0 G5

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

Photometry

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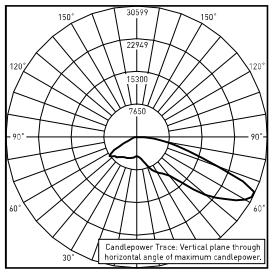
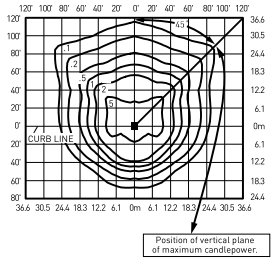
4ME



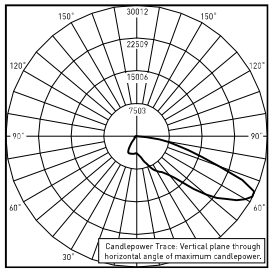
CESTL Test Report #: PL09256-001A
OSQ-HO-A-**-4ME-40L-40K-UL
Initial Delivered Lumens: 44,936



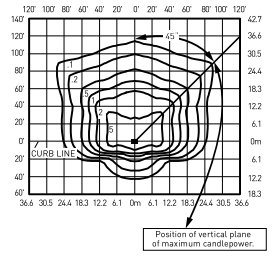
OSQ-HO-A-**-4ME-40L-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 41,880
Initial FC at grade

Type IV Medium Distribution								
Lumen Package	3000K/70 CRI		4000K/70 CRI		5000K/90 CRI		5700K/70 CRI	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
40L	39,751	B4 U0 G4	41,880	B5 U0 G4	33,920	B4 U0 G4	42,702	B5 U0 G4
50L	48,950	B5 U0 G5	51,571	B5 U0 G5	41,434	B4 U0 G4	52,583	B5 U0 G5
65L	63,945	B5 U0 G5	67,369	B5 U0 G5	53,848	B5 U0 G5	68,691	B5 U0 G5

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt



CESTL Test Report #: PL09256-002A
OSQ-HO-A-**-4ME-40L-40K-UL
w/OSQ-HO-BLSF
Initial Delivered Lumens: 35,406



OSQ-HO-A-**-4ME-40L-40K-UL
w/OSQ-HO-BLSF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 33,085
Initial FC at grade

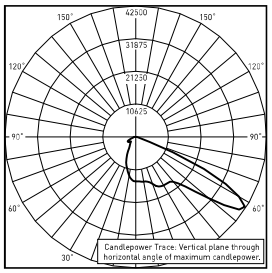
Type IV Medium w/BLS Distribution								
Lumen Package	3000K/70 CRI		4000K/70 CRI		5000K/90 CRI		5700K/70 CRI	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
40L	31,403	B3 U0 G4	33,085	B3 U0 G4	26,797	B3 U0 G4	33,735	B3 U0 G4
50L	38,671	B3 U0 G5	40,741	B3 U0 G5	32,733	B3 U0 G4	41,541	B3 U0 G5
65L	50,517	B4 U0 G5	53,222	B4 U0 G5	42,540	B3 U0 G5	54,266	B4 U0 G5

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

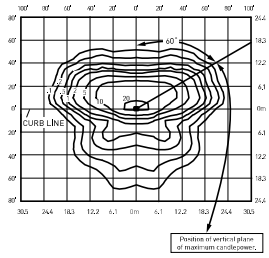
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: http://creelighting.com/products/outdoor/area/area-osq-high-output

AF



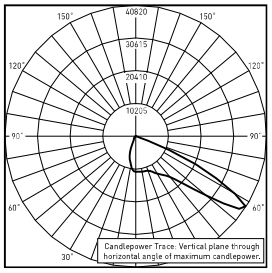
CESTL Test Report #: PL10910-001A
OSQ-HO-A-**-AF-40L-40K-UL
Initial Delivered Lumens: 44,921



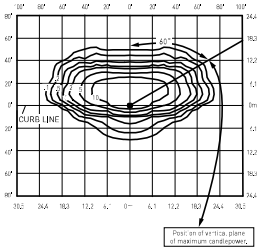
OSQ-HO-A-**-AF-40L-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 41,880
Initial FC at grade

Automotive FrontLineOptic™ Distribution								
Lumen Package	3000K/70 CRI		4000K/70 CRI		5000K/90 CRI		5700K/70 CRI	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
40L	39,751	B4 U0 G3	41,880	B4 U0 G3	33,920	B3 U0 G3	42,702	B4 U0 G3
50L	48,950	B4 U0 G3	51,571	B4 U0 G3	41,434	B4 U0 G3	52,583	B4 U0 G3
65L	63,945	B4 U0 G4	67,369	B4 U0 G4	53,848	B4 U0 G3	68,691	B4 U0 G4

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt



CESTL Test Report #: PL10911-001A
OSQ-HO-A-**-AF-40L-40K-UL
w/OSQ-HO-BLSF
Initial Delivered Lumens: 35,558



OSQ-HO-A-**-AF-40L-40K-UL
w/OSQ-HO-BLSF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 33,151
Initial FC at grade

Automotive FrontLineOptic™ w/BLS Distribution								
Lumen Package	3000K/70 CRI		4000K/70 CRI		5000K/90 CRI		5700K/70 CRI	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
40L	31,466	B3 U0 G2	33,151	B3 U0 G2	26,850	B3 U0 G2	33,802	B3 U0 G2
50L	38,747	B3 U0 G2	40,822	B3 U0 G3	32,798	B3 U0 G2	41,623	B3 U0 G3
65L	50,617	B4 U0 G3	53,327	B4 U0 G3	42,625	B3 U0 G3	54,374	B4 U0 G3

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

Photometry

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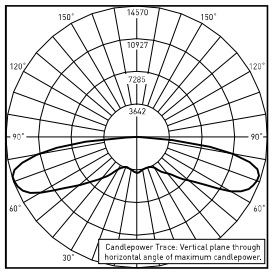
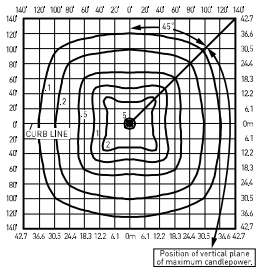
5ME



CESTL Test Report #: PL09257-001A
OSQ-HO-A-**-5ME-40L-40K-UL
Initial Delivered Lumens: 35,159

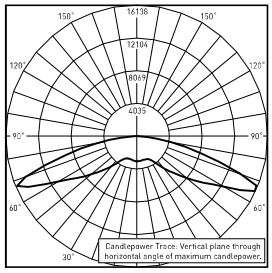


OSQ-HO-A-**-5ME-40L-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 39,332
Initial FC at grade

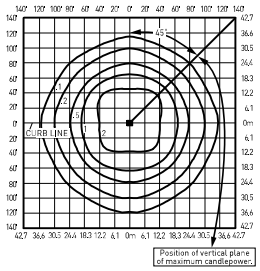
Type V Medium Distribution								
Lumen Package	3000K/70 CRI		4000K/70 CRI		5000K/90 CRI		5700K/70 CRI	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
40L	37,169	B5 U0 G5	39,332	B5 U0 G5	31,689	B5 U0 G5	40,155	B5 U0 G5
50L	45,389	B5 U0 G5	48,031	B5 U0 G5	38,871	B5 U0 G5	49,035	B5 U0 G5
65L	59,011	B5 U0 G5	62,445	B5 U0 G5	49,959	B5 U0 G5	63,751	B5 U0 G5

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

5SH



CESTL Test Report #: PL09258-001A
OSQ-HO-A-**-5SH-40L-40K-UL
Initial Delivered Lumens: 42,362



OSQ-HO-A-**-5SH-40L-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 41,542
Initial FC at grade

Type V Short Distribution								
Lumen Package	3000K/70 CRI		4000K/70 CRI		5000K/90 CRI		5700K/70 CRI	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
40L	39,258	B5 U0 G5	41,542	B5 U0 G5	33,469	B5 U0 G5	42,411	B5 U0 G5
50L	47,939	B5 U0 G5	50,729	B5 U0 G5	41,055	B5 U0 G5	51,790	B5 U0 G5
65L	62,326	B5 U0 G5	65,953	B5 U0 G5	52,766	B5 U0 G5	67,332	B5 U0 G5

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

Photometry

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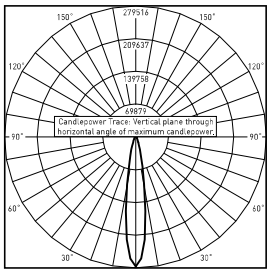
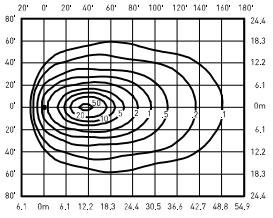
15D



CESTL Test Report #: PL09259-001A
OSQ-HO-A-**-15D-40L-40K-UL
Initial Delivered Lumens: 43,172

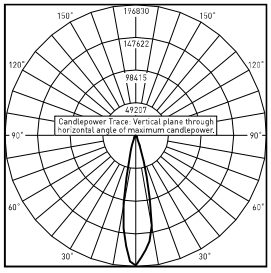


OSQ-HO-A-**-15D-40L-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 41,542
Initial FC at grade

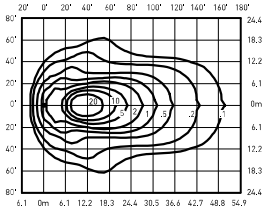
15° Flood Distribution				
Lumen Package	3000K/70 CRI	4000K/70 CRI	5000K/90 CRI	5700K/70 CRI
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
40L	39,258	41,542	33,469	42,411
50L	47,939	50,729	41,055	51,790
65L	62,326	65,953	52,766	67,332

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

25D



CESTL Test Report #: PL09260-001A
OSQ-HO-A-**-25D-40L-40K-UL
Initial Delivered Lumens: 43,263



OSQ-HO-A-**-25D-40L-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 41,542
Initial FC at grade

25° Flood Distribution				
Lumen Package	3000K/70 CRI	4000K/70 CRI	5000K/90 CRI	5700K/70 CRI
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
40L	39,258	41,542	33,469	42,411
50L	47,939	50,729	41,055	51,790
65L	62,326	65,953	52,766	67,332

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

Photometry

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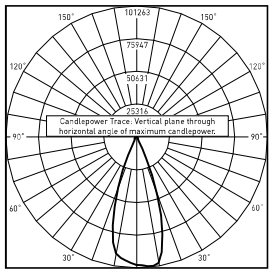
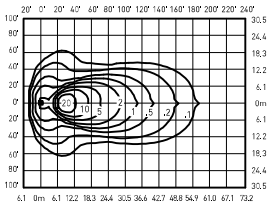
40D



CESTL Test Report #: PL09261-001A
OSQ-HO-A-**-40D-40L-40K-UL
Initial Delivered Lumens: 43,698

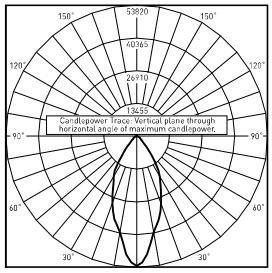


OSQ-HO-A-**-40D-40L-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 41,542
Initial FC at grade

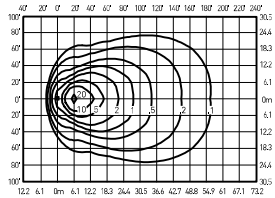
40° Flood Distribution				
Lumen Package	3000K/70 CRI	4000K/70 CRI	5000K/90 CRI	5700K/70 CRI
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
40L	39,258	41,542	33,469	42,411
50L	47,939	50,729	41,055	51,790
65L	62,326	65,953	52,766	67,332

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

60D



CESTL Test Report #: PL09262-001A
OSQ-HO-A-**-60D-40L-40K-UL
Initial Delivered Lumens: 42,715



OSQ-HO-A-**-60D-40L-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 41,542
Initial FC at grade

60° Flood Distribution				
Lumen Package	3000K/70 CRI	4000K/70 CRI	5000K/90 CRI	5700K/70 CRI
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
40L	39,258	41,542	33,469	42,411
50L	47,939	50,729	41,055	51,790
65L	62,326	65,953	52,766	67,332

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

Photometry

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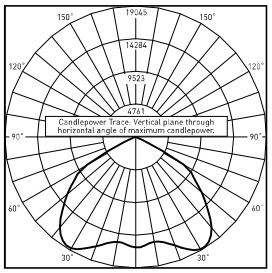
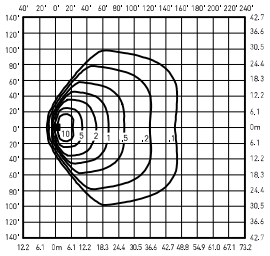
120D



CESTL Test Report #: PL09725-001A
OSQ-HO-A-**-120D-40L-40K-UL
Initial Delivered Lumens: 43,044

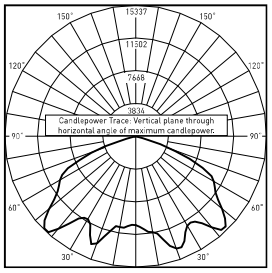


OSQ-HO-A-**-120D-40L-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 41,542
Initial FC at grade

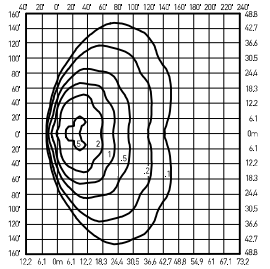
120° Flood Distribution				
Lumen Package	3000K/70 CRI	4000K/70 CRI	5000K/90 CRI	5700K/70 CRI
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
40L	39,258	41,542	33,469	42,411
50L	47,939	50,729	41,055	51,790
65L	62,326	65,953	52,766	67,332

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

WSN



CESTL Test Report #: PL07695-001A
OSQ-A-**-WSN-U-30K-UL
Initial Delivered Lumens: 23,116

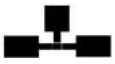


OSQ-HO-A-**-WSN-40L-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° tilt
Initial Delivered Lumens: 41,542
Initial FC at grade

Wide Sign Distribution				
Lumen Package	3000K/70 CRI	4000K/70 CRI	5000K/90 CRI	5700K/70 CRI
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
40L	39,258	41,542	33,469	42,411
50L	47,939	50,729	41,055	51,790
65L	62,326	65,953	52,766	67,332

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

Luminaire EPA

Adjustable Arm Mount – OSQ-HO-AA Weight: 40L/50L, 120-480V: 73.0 lbs. (33.1kg); 65L, 120-480V: 75.0 lbs. (34.0kg)							
Single	2 @ 180˚	2 @ 90˚	3 @ 90˚	3 @ 120˚	3 @ 180˚	4 @ 180˚	4 @ 90˚
Tenon Configuration (0˚-90˚ Tilt); If used with Cree Lighting tenons, please add tenon EPA with Luminaire EPA							
 PB-1A*; PW-1A3**	 PB-2A*; PB-2R2.375; PW-2A3**	 PB-2A*; PB-2R2.375; PW-2A3**	 PB-3A*; PB-3R2.375	 PB-3A*; PB-3R2.375	 PB-3A*; PB-3R2.375	 PB-4A*(180); PB-4R2.375	 PB-4A*(90); PB-4R2.3(90)
0˚ Tilt							
1.16	2.03	2.03	2.90	2.63	2.90	3.77	3.77
10˚ Tilt							
1.67	3.06	3.06	4.45	4.27	4.45	5.83	5.83
20˚ Tilt							
2.35	4.41	4.41	6.48	6.34	6.48	8.54	8.54
30˚ Tilt							
2.99	5.70	5.70	8.41	8.29	8.41	11.12	11.12
45˚ Tilt							
3.85	7.41	7.41	10.98	10.89	10.98	14.54	14.54
60˚ Tilt							
4.51	8.73	8.73	12.95	12.91	12.95	17.18	17.18
70˚ Tilt							
4.83	9.37	9.37	13.91	13.88	13.91	18.45	18.45
80˚ Tilt							
5.02	9.76	9.76	14.50	14.44	14.50	19.24	19.24
90˚ Tilt							
5.02	9.76	9.76	14.50	14.44	14.50	19.24	19.24

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation
** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")

Tenon EPA

Part Number	EPA
PB-1A*	None
PB-2A*	0.82
PB-3A*	1.52
PB-4A*(180)	2.22
PB-4A*(90)	1.11
PB-2R2.375	0.92
PB-3R2.375	1.62
PB-4R2.375	2.32
PW-1A3**	0.47
PW-2A3**	0.94
WM-2	0.08
WM-4	0.25
WM-DM	None

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation
** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")

Tenons and Brackets‡ (must specify color)

Square Internal Mount Vertical Tenons (Steel)
- Mounts to 3-6" (76-152mm) square aluminum or steel poles

PB-1A* – Single
PB-2A* – 180˚ Twin
PB-3A* – 180˚ Triple
PB-4A*(90) – 90˚ Quad
PB-4A*(180) – 180˚ Quad

Wall Mount Brackets
- Mounts to wall or roof

WM-2 – Horizontal for OSQ-HO-AA mount
WM-4 – L-Shape for OSQ-HO-AA mount
WM-DM – Plate for OSQ-HO-DA mount

Round External Mount Vertical Tenons (Steel)
- Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons

PB-2R2.375 – Twin
PB-3R2.375 – Triple
PB-4R2.375 – Quad

Mid-Pole Bracket
- Mounts to square pole

PW-1A3** – Single
PW-2A3** – Double

‡ Refer to the Bracket and Tenons spec sheet for more details

Luminaire EPA

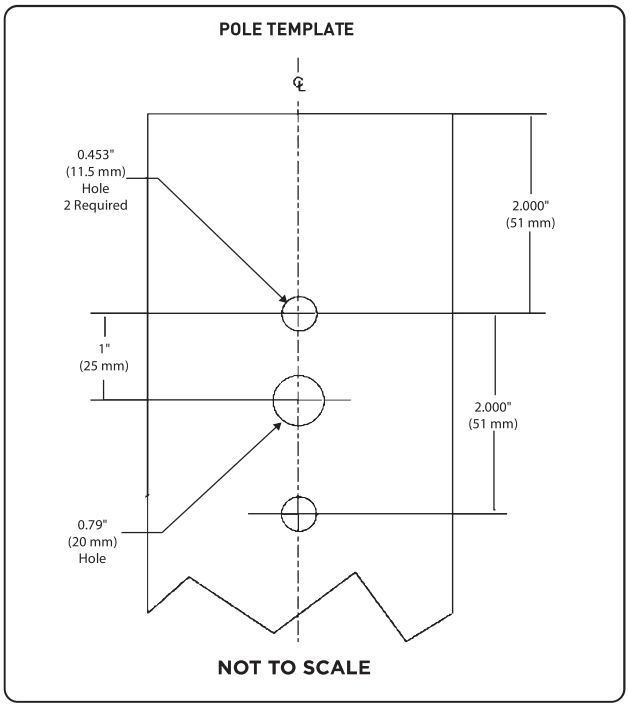
Fixed Arm Mount – OSQ-HO-DA Weight: 40L/50L, 120-480V: 70.0 lbs. (31.8kg); 65L, 120-480V: 72.0 lbs. (32.7kg)					
Single	2 @ 180˚	2 @ 90˚	3 @ 90˚	3 @ 120˚	4 @ 90˚
1.06	1.93	1.93	2.80	2.53	3.67

Direct Mount Configurations

Compatibility with OSQ-HO-DA Direct Arm Mount					
Input Delivered Lumens	2 @ 90˚	2 @ 180˚	3 @ 90˚	3 @ 120˚	4 @ 90˚
3" Square					
40L/50L/65L	N/A	✓	N/A	N/A	N/A
3" Round					
40L/50L/65L	N/A	✓	N/A	✓	N/A
4" Square					
40L/50L/65L	✓	✓	✓	N/A	✓
4" Round*					
40L/50L/65L	✓	✓	✓	✓	✓
5" Square					
40L/50L/65L	✓	✓	✓	N/A	✓
5" Round					
40L/50L/65L	✓	✓	✓	✓	✓
6" + Square					
40L/50L/65L	✓	✓	✓	N/A	✓
6" + Round					
40L/50L/65L	✓	✓	✓	✓	✓

* Note: only 0.10" clearance between mounts on 4 @ 90˚

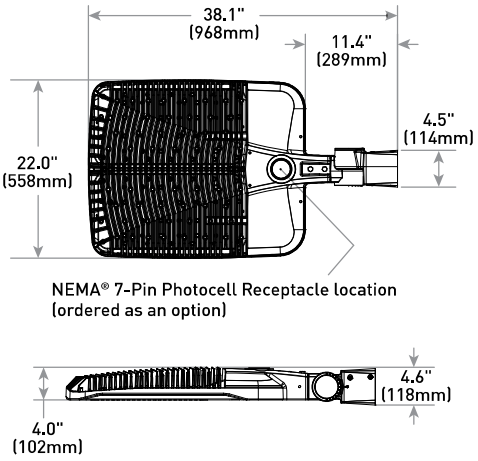
Fixture Mounting Drill Pattern for OSQ-HO-DA



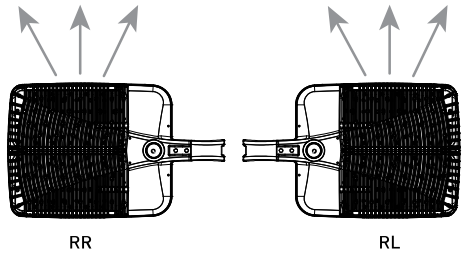
AA Mount



Lumen Package	Voltage	Weight
40/50L	120-480V	73.0 lbs. (33.1kg)
65L	120-480V	75.0 lbs. (34.0kg)



RR/RL Configuration



Field Adjustable Output (Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the OSQ High Output area luminaires to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected Q setting and will be fully adjustable between the nine settings.

Q Option Power & Lumen Data – 40L

Q Option Setting	CCT	System Watts	Lumen Values							Optics Qualified on DLC QPL	
		120-480V	Asymmetric	5ME	5SH & Floods	2ME w/BLS	3ME w/BLS	4ME w/BLS	AF w/BLS	Standard	Premium
Q9 (Full Power)	30K	341	39,751	37,169	39,258	31,801	32,596	31,403	31,466	5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	2ME, 3ME, 4ME, AF
	40K		41,880	39,332	41,542	33,504	34,342	33,085	33,151	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		33,920	31,689	33,469	27,136	27,814	26,797	26,850	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		42,702	40,155	42,411	34,162	35,016	33,735	33,802	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q8	30K	324	38,273	35,787	37,799	30,619	31,384	30,236	30,296	5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	2ME, 3ME, 4ME, AF
	40K		40,323	37,870	39,998	32,259	33,065	31,855	31,919	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		32,659	30,511	32,225	26,127	26,780	25,801	25,852	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		41,115	38,662	40,834	32,892	33,714	32,481	32,545	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q7	30K	306	36,375	34,012	35,923	29,100	29,827	28,736	28,793	5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	2ME, 3ME, 4ME, AF
	40K		38,323	35,991	38,013	30,658	31,425	30,275	30,335	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		31,039	28,997	30,626	24,831	25,451	24,521	24,569	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		39,075	36,744	38,809	31,260	32,042	30,870	30,931	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q6	30K	289	35,206	32,919	34,770	28,165	28,869	27,813	27,868	5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	2ME, 3ME, 4ME, AF
	40K		37,092	34,835	36,793	29,673	30,416	29,302	29,361	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		30,042	28,066	29,642	24,034	24,634	23,733	23,780	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		37,820	35,564	37,562	30,256	31,013	29,878	29,937	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q5	30K	263	32,241	30,146	31,841	25,793	26,437	25,470	25,521	5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	2ME, 3ME, 4ME, AF
	40K		33,967	31,901	33,693	27,174	27,854	26,834	26,888	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		27,511	25,702	27,146	22,009	22,559	21,734	21,777	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		34,634	32,568	34,398	27,708	28,400	27,361	27,415	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q4	30K	238	30,029	28,078	29,656	24,023	24,624	23,722	23,770	5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	2ME, 3ME, 4ME, AF
	40K		31,637	29,712	31,381	25,309	25,943	24,993	25,043	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		25,624	23,938	25,283	20,499	21,011	20,243	20,283	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		32,258	30,334	32,038	25,807	26,452	25,484	25,534	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q3	30K	212	26,969	25,217	26,634	21,575	22,115	21,305	21,348	5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	2ME, 3ME, 4ME, AF
	40K		28,413	26,685	28,184	22,731	23,299	22,446	22,491	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		23,013	21,499	22,707	18,410	18,870	18,180	18,216	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		28,971	27,243	28,774	23,177	23,756	22,887	22,933	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q2	30K	189	24,420	22,834	24,117	19,536	20,025	19,292	19,330	5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	2ME, 3ME, 4ME, AF
	40K		25,728	24,163	25,520	20,582	21,097	20,325	20,366	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		20,838	19,467	20,561	16,670	17,087	16,462	16,495	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		26,233	24,668	26,054	20,987	21,511	20,724	20,765	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q1	30K	169	22,108	20,672	21,834	17,687	18,129	17,465	17,500	5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	2ME, 3ME, 4ME, AF
	40K		23,292	21,875	23,105	18,634	19,100	18,401	18,438	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		18,865	17,625	18,615	15,092	15,469	14,904	14,933	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		23,750	22,333	23,588	19,000	19,475	18,762	18,800	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN

Field Adjustable Output (Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the OSQ High Output area luminaires to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected Q setting and will be fully adjustable between the nine settings.

Q Option Power & Lumen Data – 50L

Q Option Setting	CCT	System Watts	Lumen Values							Optics Qualified on DLC QPL	
		120-480V	Asymmetric	5ME	5SH & Floods	2ME w/BLS	3ME w/BLS	4ME w/BLS	AF w/BLS	Standard	Premium
Q9 (Full Power)	30K	420	48,950	45,389	47,939	39,160	40,139	38,671	38,747	5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	2ME, 3ME, 4ME, AF
	40K		51,571	48,031	50,729	41,257	42,288	40,741	40,822	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		41,434	38,871	41,055	33,147	33,976	32,733	32,798	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		52,583	49,035	51,790	42,066	43,118	41,541	41,623	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q8	30K	398	47,130	43,702	46,157	37,704	38,647	37,233	37,307	5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	2ME, 3ME, 4ME, AF
	40K		49,654	46,245	48,843	39,723	40,716	39,227	39,305	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		39,894	37,426	39,529	31,915	32,713	31,516	31,579	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		50,628	47,212	49,865	40,503	41,515	39,996	40,076	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q7	30K	377	44,792	41,534	43,867	35,834	36,730	35,386	35,456	5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	2ME, 3ME, 4ME, AF
	40K		47,191	43,951	46,420	37,752	38,696	37,281	37,355	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		37,915	35,569	37,568	30,332	31,090	29,953	30,012	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		48,117	44,870	47,391	38,493	39,456	38,012	38,088	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q6	30K	355	43,354	40,200	42,458	34,683	35,550	34,249	34,317	5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	2ME, 3ME, 4ME, AF
	40K		45,675	42,540	44,929	36,540	37,453	36,083	36,155	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		36,697	34,427	36,361	29,357	30,091	28,991	29,048	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		46,571	43,429	45,869	37,257	38,188	36,791	36,864	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q5	30K	324	39,702	36,813	38,882	31,761	32,555	31,364	31,427	5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	2ME, 3ME, 4ME, AF
	40K		41,827	38,956	41,145	33,462	34,298	33,044	33,109	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		33,606	31,527	33,298	26,885	27,557	26,548	26,601	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		42,648	39,771	42,005	34,119	34,972	33,692	33,759	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q4	30K	292	36,978	34,288	36,214	29,582	30,322	29,212	29,270	5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	2ME, 3ME, 4ME, AF
	40K		38,958	36,283	38,322	31,166	31,945	30,776	30,838	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		31,300	29,364	31,014	25,040	25,666	24,727	24,776	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		39,722	37,042	39,123	31,778	32,572	31,380	31,443	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q3	30K	261	33,210	30,794	32,524	26,568	27,232	26,236	26,288	5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	2ME, 3ME, 4ME, AF
	40K		34,988	32,586	34,417	27,991	28,690	27,641	27,696	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		28,111	26,372	27,854	22,489	23,051	22,207	22,252	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		35,675	33,268	35,137	28,540	29,253	28,183	28,239	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q2	30K	233	30,071	27,884	29,450	24,057	24,658	23,756	23,804	5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	2ME, 3ME, 4ME, AF
	40K		31,700	29,500	31,200	25,300	26,000	25,000	25,100	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		25,500	23,900	25,200	20,400	20,900	20,100	20,100	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		32,300	30,100	31,800	25,800	26,500	25,500	25,600	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q1	30K	208	27,225	25,244	26,662	21,780	22,324	21,507	21,550	5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	2ME, 3ME, 4ME, AF
	40K		28,682	26,714	28,214	22,946	23,520	22,659	22,704	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		23,044	21,619	22,834	18,436	18,896	18,205	18,241	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		29,245	27,272	28,804	23,396	23,981	23,104	23,150	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN

Field Adjustable Output (Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the OSQ High Output area luminaires to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected Q setting and will be fully adjustable between the nine settings.

Q Option Power & Lumen Data – 65L

Q Option Setting	CCT	System Watts	Lumen Values							Optics Qualified on DLC QPL	
		120-480V	Asymmetric	5ME	5SH & Floods	2ME w/BLS	3ME w/BLS	4ME w/BLS	AF w/BLS	Standard	Premium
Q9 (Full Power)	30K	550	63,945	59,011	62,326	51,156	52,435	50,517	50,617	2ME, 3ME, 4ME, AF, 5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	40K		67,369	62,445	65,953	53,895	55,243	53,222	53,327	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		53,848	49,959	52,766	43,078	44,155	42,540	42,625	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		68,691	63,751	67,332	54,953	56,327	54,266	54,374	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q8	30K	521	61,568	56,817	60,009	49,254	50,486	48,639	48,735	2ME, 3ME, 4ME, AF, 5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	40K		64,865	60,124	63,501	51,892	53,189	51,243	51,345	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		51,846	48,102	50,804	41,477	42,514	40,959	41,040	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		66,137	61,381	64,829	52,910	54,233	52,249	52,353	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q7	30K	493	58,513	53,999	57,032	46,811	47,981	46,226	46,318	2ME, 3ME, 4ME, AF, 5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	40K		61,647	57,141	60,351	49,317	50,550	48,701	48,798	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		49,274	45,715	48,284	39,419	40,405	38,927	39,004	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		62,856	58,336	61,613	50,285	51,542	49,657	49,755	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q6	30K	465	56,634	52,264	55,200	45,307	46,440	44,741	44,830	2ME, 3ME, 4ME, AF, 5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	40K		59,667	55,306	58,413	47,733	48,927	47,137	47,231	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		47,692	44,247	46,733	38,153	39,107	37,676	37,751	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		60,838	56,462	59,634	48,670	49,887	48,062	48,157	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q5	30K	424	51,864	47,862	50,550	41,491	42,528	40,972	41,054	2ME, 3ME, 4ME, AF, 5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	40K		54,641	50,647	53,492	43,713	44,805	43,166	43,252	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		43,674	40,520	42,797	34,939	35,813	34,503	34,571	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		55,713	51,706	54,611	44,570	45,685	44,013	44,101	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q4	30K	383	48,305	44,578	47,082	38,644	39,610	38,161	38,237	2ME, 3ME, 4ME, AF, 5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	40K		50,892	47,172	49,822	40,713	41,731	40,204	40,284	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		40,678	37,740	39,860	32,542	33,356	32,135	32,199	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		51,890	48,159	50,864	41,512	42,550	40,993	41,075	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q3	30K	344	43,383	40,036	42,285	34,707	35,574	34,273	34,341	2ME, 3ME, 4ME, AF, 5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	
	40K		45,706	42,366	44,746	36,565	37,479	36,108	36,180	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		36,533	33,895	35,799	29,226	29,957	28,861	28,919	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	
	57K		46,603	43,252	45,681	37,283	38,215	36,817	36,890	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q2	30K	304	39,283	36,252	38,288	31,426	32,212	31,034	31,095	2ME, 3ME, 4ME, AF, 5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	40K		41,387	38,362	40,517	33,109	33,937	32,695	32,760	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		33,080	30,691	32,416	26,464	27,126	26,133	26,185	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		42,199	39,164	41,364	33,759	34,603	33,337	33,403	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
Q1	30K	269	35,564	32,820	34,664	28,452	29,163	28,096	28,152	2ME, 3ME, 4ME, AF, 5ME, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	40K		37,469	34,730	36,681	29,975	30,724	29,600	29,659	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN
	50K		29,949	27,786	29,347	23,959	24,558	23,660	23,707	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN	N/A
	57K		38,204	35,457	37,448	30,563	31,327	30,181	30,241	5ME	2ME, 3ME, 4ME, AF, 5SH, 15D, 25D, 40D, 60D, 120D, WSN

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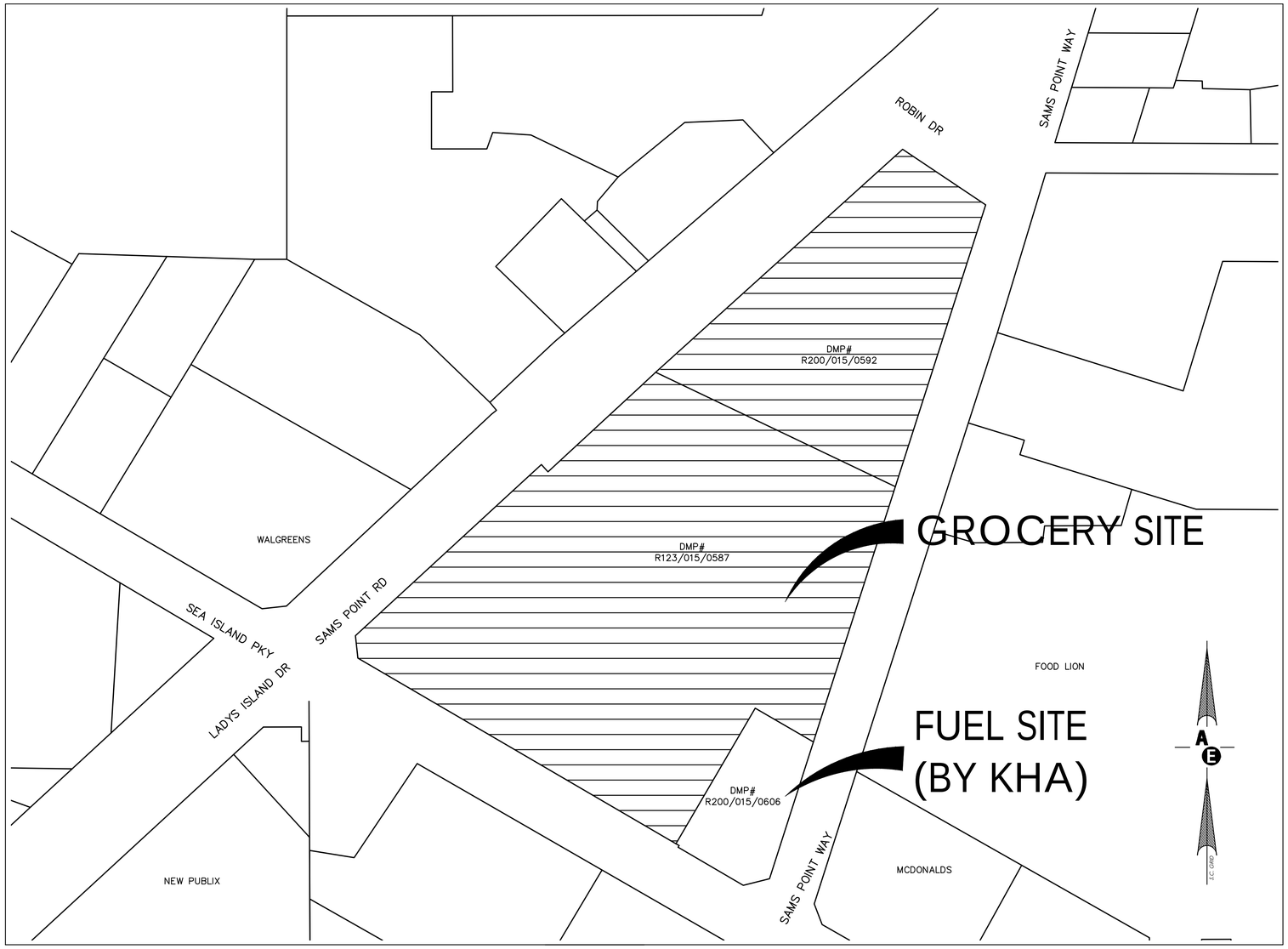
Canada: creelighting-canada.com (800) 473-1234

CREE LIGHTING
A COMPANY OF *IDEAL INDUSTRIES, INC.*

SITE DEVELOPMENT PLAN
FOR
HARRIS TEETER AT LADY'S ISLAND
SAMS POINT ROAD (HWY 802)
SEA ISLAND PKWY (US 21)
BEAUFORT COUNTY, SOUTH CAROLINA



VICINITY MAP
1 inch = 80 ft.

HARRIS TEETER @ LADY'S ISLAND (OLD PUBLIX)
BJWSA NUMBER: 2016-064

DATUM: NGVD29 VERTICAL / NAD83 HORZ.

N.P.D.E.S. DISTURBED AREA = 7.10 Acres

3 DAYS BEFORE DIGGING IN SOUTH CAROLINA
CALL 1-888-721-7877
PALMETTO UTILITY PROTECTION SERVICE

APPROXIMATE LOCATION OF SITE:
LONGITUDE: 32°–24'–50"
LATITUDE: 80°–39'–06"

DEVELOPER NAME:
TED BARNES
BARNES DEVELOPMENT
5037 MONTIBELLO DRIVE
CHARLOTTE, NC 28226
PHONE # (704) 376–9848

PROJECT DATA INFORMATION:
HARRIS TEETER AT LADY'S ISLAND
DMP's #: R123–015–0587,
R200–015–0592,
R200–015–0606
PROJECT ZONING: CITY T5–UC
FEMA FLOOD ZONE: C (EFFECTIVE) / X (PRELIMINARY) [BFE=N/A]
MIN. FINISH FL. ELEV.: 13.0 MIN (OR BFE+1'FB)
MIN. FINISH FL. ELEV.: 13.0+1'FB=14.0 MSL (NGVD 29)

PHONE #:			PERMIT#:
B.J.W.S.A.	843.987.8082	JAMES CLARDY	_____
			_____
O.C.R.M.	843.744.5898	BO ELLIS	_____
S.C.D.O.T.	843.746.6722	JULEIGH FLEMING	_____
DOMINION	843.525.7712	TERRANCE HARRIS	_____

APPROVED FOR CONSTRUCTION
BY: _____ / / DATE

Andrews Engineering & Surveying
2712 Bull Street Suite A
Beaufort, SC 29902
843.379.2222
Fax 843.379.2223

SOUTH CAROLINA ANDREWS ENGINEERING CO. No. C00008 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER NO. 12860 STEVEN WADE ANDREWS

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DRAWING RELEASED FOR:

☐ PLAN REVIEW	____/____/____
☑ PERMIT DRAWINGS	03 / 11 / 2021
☐ CONSTRUCTION DRAWINGS	____/____/____
☐ BID SET	____/____/____
☐ RECORD DRAWINGS	____/____/____
☐ OTHER: _____	____/____/____

PLAN REVISIONS

NO.	DESCRIPTION:	DATE:	BY:
1	–	–	–
2	–	–	–
3	–	–	–
4	–	–	–
5	–	–	–
6	–	–	–
7	–	–	–
8	–	–	–

TYPICAL LINE TYPES

- CONSTRUCTED SWALE
- ROAD CENTERLINE(PROP & EXIST)
- CBL — CABLE TV LINE
- FOP — FIBER OPTICS
- CDT — CONDUIT LINE
- CHAIN LINK FENCE
- SQUARE WOODEN FENCE
- X — SILT FENCE
- TREE PROTECTION FENCE
- EFM — EXISTING PVC FORCEMAIN
- 1"ØFM — PROPOSED 1" PVC (C900–DR25) FORCEMAIN
- 2"ØFM — PROPOSED 2" PVC (C900–DR25) FORCEMAIN
- 4"ØFM — PROPOSED 4" PVC (C900–DR25) FORCEMAIN
- 6"ØFM — PROPOSED 6" PVC (C900–DR25) FORCEMAIN
- 8"ØFM — PROPOSED 8" PVC (C900–DR25) FORCEMAIN
- OHP — OVERHEAD POWERLINE
- ESAN — EXISTING SANITARY SEWER LINE
- 10"ØSS — PROPOSED 10" SANITARY SEWER LINE
- 12"ØSS — PROPOSED 12" SANITARY SEWER LINE
- 6"ØSS — PROPOSED 6" SANITARY SEWER LINE
- 8"ØSS — PROPOSED 8" SANITARY SEWER LINE
- FSAN — FUTURE SANITARY SEWER LINE
- EGAS — EXISTING GAS LINE
- 4"ØDIP — 4"ØDIP — 4"ØDIP — 4"ØDIP — 4"ØDIP — 4" DIP (DUCTILE IRON PIPE)
- 6"ØDIP — 6"ØDIP — 6"ØDIP — 6"ØDIP — 6"ØDIP — 6" DIP
- 8"ØDIP — 8"ØDIP — 8"ØDIP — 8"ØDIP — 8"ØDIP — 8" DIP
- 10"ØDIP — 10"ØDIP — 10"ØDIP — 10"ØDIP — 10"ØDIP — 10" DIP
- EXISTING PROPERTY LINE
- FUTURE PROPERTY LINE
- PROPOSED PROPERTY LINE
- EXISTING RIGHT OF WAY
- FUTURE RIGHT OF WAY
- PROPOSED RIGHT OF WAY
- EXISTING SETBACK
- FUTURE SETBACK
- TEL — TELEPHONE LINE
- UGP — UNDERGROUND POWER LINE
- UT3 — 3 UNDERGROUND TELEPHONE LINE
- UTL — UNDERGROUND TELEPHONE LINE
- 1"ØW — PROPOSED 1" PE (SDR17) WATERLINE
- 10"ØW — PROPOSED 10" PVC (C900–DR25–CL100) WATERLINE
- 12"ØW — PROPOSED 12" PVC (C900–DR25–CL100) WATERLINE
- 2"ØW — PROPOSED 2" PVC (SDR21–CL200) WATERLINE
- 30"ØW — PROPOSED 30" PVC (C900–DR25–CL100) WATERLINE
- 4"ØW — PROPOSED 4" PVC (C900–DR25–CL100) WATERLINE
- 6"ØW — PROPOSED 6" PVC (C900–DR25–CL100) WATERLINE
- 8"ØW — PROPOSED 8" PVC (C900–DR25–CL100) WATERLINE
- EWTR — EXISTING WATERLINE
- EX10" — EXISTING 10" PVC WATERLINE
- EX12" — EXISTING 12" PVC WATERLINE
- EX2" — EXISTING 2" PVC WATERLINE
- EX4" — EXISTING 4" PVC WATERLINE
- EX20" — EXISTING 20" PVC WATERLINE
- EX6" — EXISTING 6" PVC WATERLINE
- EX8" — EXISTING 8" PVC WATERLINE
- FW16" — FUTURE PVC WATERLINE
- STRIPING LANE LINES
- STRIPING FOR TURN LANES
- STRIPED LANE MARKERS

South Carolina 811 — Call 811 Before you Dig

TYPICAL ABBREVIATIONS

AC	AIR CONDITIONER
BB	BOTTOM OF BANK
BC	BUILDING CORNER
BD	BOTTOM OF DITCH
BENCH	TEMP. BENCHMARK
BFC	BOTTOM FACE OF CURB
BOC	BACK OF CURB
BS#	BACKSIGHT (POINT#)
BSW	BACK OF SIDEWALK
BW	BOTTOM OF WALL
CA	CORNER OF ASPHALT
CB	CATCH BASIN
CC	CORNER OF CONCRETE
CDK	CORNER OF DECK
CG	CORNER OF GRAVEL
CI	CURB INLET
CLBP	CENTERLINE OF BIKE PATH
CLCP	CENTERLINE CART PATH
CLCR	CENTERLINE OF CREEK
CLD	CENTERLINE OF DITCH
CLINT	CENTERLINE OF INTERSECTION
CLP	CENTERLINE OF PAVEMENT
CLR	CENTERLINE OF ROAD
CLSW	CENTERLINE OF SIDEWALK
CMF	CONCRETE MONUMENT FOUND
CMP	CORRUGATED METAL PIPE
CMS	CONCRETE MONUMENT SET
CO	CLEAN OUT
COGO	CALCULATED POINT
COL	COLUMN
CP	CONTROL PANEL
CPL	CORNER OF POOL
CPP	CORRUGATED PLASTIC PIPE
CRIT	S.C. COASTAL CRITICAL LINE
CSW	CORNER OF SIDEWALK
CTV	CABLE TELEVISION BOX
DK	DECK
EA	EDGE OF ASPHALT
EB	ELECTRIC BOX
EBP	EDGE OF BIKE PATH
EC	EDGE OF CONCRETE
ECON	ELECTRIC CONDUIT
EDK	EDGE OF DECK
EDR	EDGE OF DIRT ROAD
EDW	EDGE OF DRIVEWAY(DIRT/GRASS)
EG	EDGE OF GRAVEL
EM	EDGE OF MARSH
EMET	ELECTRIC METER
ECP	EDGE OF CART PATH
ESTUB	ELECTRIC STUB–OUT
ESW	EDGE OF SIDEWALK
EW	EDGE OF WATER
F	FENCE
FC	FENCE CORNER
FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FL	FENCE LINE
FOM	FIBER OPTIC MARKER
FP	FLAG POLE
FS	FORESIGHT
GI	GRATE INLET
GL	GROUND LIGHT
GPS#	GPS CONTROL (POINT#)
GRV	GRAVE
GT	GAS TANK
GUT	GUTTER LINE
GV	GAS VALVE
GW	GUY WIRE
HPS	HANDICAP PARKING STRIPE
HSB	HOSE BIB
HT#	HUB & TACK (POINT#)
IM	IRRIGATION METER
INV	INVERT ELEVATION
IPC	IRON PIN CALCULATED(CORNER)
IPF	IRON PIN FOUND
IPS	IRON PIN SET
IV	IRRIGATION VALVE
LI	LANDSCAPE ISLAND
LP	LIGHT POLE/LAMP POST
MB	MAIL BOX
MW	MONITOR WELL
NWL	NORMAL WATER LEVEL

TYPICAL ABBREVIATIONS

OHP	OVER HEAD WIRE
PC	PORCH CORNER
PI	POINT OF INTERSECTION
PK#	P/K NAIL (AS SETUPS)
PP	POWER POLE
PS	PARKING STRIPE
PVC	POLYVINYL CHLORIDE PIPE
PKS	PK NAIL SET
RCP	REINFORCED CONCRETE PIPE
RIM	MANHOLE RIM
RIP	EDGE OF RIP–RAP
RP	RADIUS POINT
SB	SETBACK
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SGN"DESC"	SIGN (THEN A DESC.)
SH	SPRINKLER HEAD
SLAT	SEWER LATERAL
SLM	SEWER LINE MARKER
SSMH	SANITARY SEWER MANHOLE
STOP	STOP BAR
STP	STEP
SUN#	SETUP NAIL#
SV	SEWER VALVE
SVM	SEWER VALVE MARKER
SWB	BACK OF SIDEWALK
T	TOPO SHOT (ELEVATION)
TB	TOP OF BANK
TBC	TOP BACK OF CURB
TBM	TEMPORARY BENCHMARK
TEL	TELEPHONE PEDESTAL
TIE#	TIE TO SETUP NAIL
TL	TREE LINE
TMH	TELEPHONE MANHOLE
TOP	TOP OF PIPE
TP	TRAVERSE POINT
TRNF	TRANSFORMER
TSB	TRAFFIC STOP BAR
TW	TOP OF WALL
UC	UNDERGROUND CABLE TV
UE	UNDERGROUND ELECTRIC
UFO	UNDERGROUND FIBER OPTIC
UGG	UNDERGROUND GAS LINE
UGM	UNDERGROUND GAS MARKER
USS	UNDERGROUND SANITARY SEWER
UT	UNDERGROUND TELEPHONE
UW	UNDERGROUND WATER
VCP	VERIFIED CLAY PIPE
WELL	WATER WELL
WF	WATER FOUNTAIN
WL	WHITE LINE
WLAT	WATER LATERAL
WLM	WHITE LINE MARKER
WM	WATER METER
WP	WATER PIPE
WT	WATER TANK
WV	WATER VALVE
WVM	WATER VALVE MARKER
YL	YELLOW LINE

SUFFIXES

END	END (EX. BFC_END)
OL	ON LINE (EX. BFC_OL)

TYPICAL LEGEND UNLESS OTHERWISE NOTED

WETLANDS; DEMOLITION; LAGOON/POND; EXISTING ASPHALT PAVEMENT; CONCRETE PAVEMENT; STONE RIP RAP ON ENGR FABRIC; BRICK PAVEMENT; TYP. ASPHALT PAVEMENT; PERVIOUS PAVEMENT

EDGE OF PAVEMENT EP — EDGE OF GRAVEL EG
TOP OF BANK TB — BOTTOM OF BANK BB
EXISTING SPOT ELEVATION 8.43 GS
LANDSCAPE AREA — SHRUB
CONCRETE MARKER — IRON PIN
TEMPORARY BENCHMARK — SIGNAL BOX
CURB INLET — GRATE INLET
DRAINAGE MANHOLE (D) — CATCH BASIN
PROP FIRE HYDRANT — EXIST FIRE HYDRANT
WATER VALVE (WV) — IRRIGATION VALVE (V)
WATER VALVE MARKER (WV) — WATER METER
POST INDICATOR VALVE — FIRE DEPT CONNECTOR
MONITORING WELL (M) — WELL (W)
SPRINKLER HEAD — HOSE BIB
SANITARY SEWER MANHOLE (S) — SEWER VALVE (SV)
SANITARY SEWER CLEAN OUT (O)
TRANSFORMER (TRANS) — CABLE TV BOX
EXISTING POWER POLE — TELEPHONE PEDESTAL (T)
GUY WIRE — ELECTRIC BOX (ELEC.)
LIGHT POLE — GROUND LIGHT
AIR CONDITIONER (A/C) — SIGN
FIBER OPTIC MANHOLE (P)
UNDERGROUND GAS MARKER (G) — GAS VALVE (GV)
MAILBOX — FLAG POLE

DIP CROSSING
PROP STORM DRAIN
EXISTING STORM DRAIN
TOP OF PAVEMENT TP15.50
TOP OF CURB TC16.00
TOP OF SIDEWALK TS15.25
FINISHED GRADE FG13.50
EXISTING CONTOUR 18.00
PROPOSED CONTOUR 19

UTILITY MARKINGS:

RED – ELECTRIC
GREEN –SEWER
BLUE – WATER
YELLOW– GAS
ORANGE – CABLE
ORANGE "T"S – TELEPHONE

UTILITY NOTES:

1. SHOWN ON PLAN ARE KNOWN UNDERGROUND UTILITY LOCATIONS, HOWEVER, NOT SHOWN BUT POSSIBLY ENCOUNTERED IN THE AREA OF THE SITE ARE OTHER BURIED UTILITIES INCLUDING, BUT NOT NECESSARILY LIMITED TO;

A. TELEPHONE
B. FIBER OPTICS
C. CABLE TELEVISION
D. POTABLE WATER
E. SANITARY SEWER
F. GAS PIPELINE / TRANSMISSION LINE
G. STORM SEWER

(NOTE: ALL UTILITIES ENCOUNTERED TO BE PROTECTED DURING CONSTRUCTION)

2. WHEN ENCOUNTERED, THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH WRITTEN GRAPHICAL INFORMATION PERTAINING TO THE VERTICAL & HORIZONTAL ALIGNMENT OF UTILITY LOCATIONS.

3. ADDITIONAL COST ASSOCIATED WITH THE LOCATING, RELOCATING (DUE TO CONFLICTS), OR DELAYS AS A RESULT OF OTHER UNDERGROUND UTILITIES ENCOUNTERED WILL BE THE RESPONSIBILITY OF THE OWNER.

4. THOSE COSTS BEING ADDITIONAL PIPING, BORES, ASPHALT CUT & PATCH, CLEARING & GRUBBING, STABILIZATION & GRASSING, OR OTHER SPECIAL CONSTRUCTION TECHNIQUES TO BE CHARGED AT THE UNIT BID PRICE OR A NEGOTIATED FEE.

GENERAL NOTES:

1. NO SITE WORK SHALL BEGIN ON A REGULATED SITE UNTIL ALL TREE PROTECTION IS IN PLACE AND ALL REQUIRED SILT FENCE HAS BEEN INSTALLED.

2. A HORIZONTAL & VERTICAL CONTROL MONUMENT HAS BEEN DESIGNATED BY THE ENGINEER. THE VERTICAL DATUM IS NGVD–29, AND THE HORIZONTAL DATUM IS NAD 83.

3. ALL PAVEMENT DIMENSIONS (i.e.; ROAD WIDTHS, PARKING LOTS, LANDSCAPE ISLANDS, etc.) ARE GIVEN TO THE EDGE OF PAVEMENT OR BACK OF CURB, AS SITE DICTATES.

4. ALL BUILDING TIES ARE PERPENDICULAR TO THE PROPERTY LINES.

5. CONTRACTOR TO IDENTIFY AND LOCATE ALL UNDERGROUND UTILITIES PRIOR TO STARTING CONSTRUCTION.

6. CONTRACTOR RESPONSIBLE FOR TRAFFIC CONTROL AND SAFETY DURING CONSTRUCTION.

7. CONTRACTOR RESPONSIBLE FOR SECURING SITE DURING NON–WORKING HOURS TO ENSURE TRAFFIC AND PEDESTRIAN SAFETY.

8. THE GENERAL CONTRACTOR AND SUB–CONTRACTORS SHALL BE AWARE THAT SOME PART OR ALL OF THE CONSTRUCTION OF THIS SITE MAY FALL UNDER THE JURISDICTION OF SPECIFIC CONDITIONS RELEVANT TO A SCDOT OR BEAUFORT COUNTY ENCROACHMENT PERMIT, UNITED STATES ARMY CORPS PERMIT, SETBACKS/BUFFERS PERTINENT TO THE ESTABLISHED ZONING ORDINANCES, SC–DHEC PERMITS, DHEC–OCRM PERMITS OR THE WATER AND SEWER AUTHORITY OF JURISDICTION. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONFIRM THE EXISTENCE AND CONDITIONS OF ALL PERMITS RELEVANT TO THIS PROJECT PRIOR TO THE COMMENCEMENT OF THE IMPACTED PHASE(S) OF CONSTRUCTION.

9. THE WATER AND SEWER CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE INSTALLATION OF WATER AND SEWER SERVICES IN ACCORDANCE WITH THE SPECIFICATIONS AND RELEVANT DETAILS OF THE WATER AND SEWER AUTHORITY OF JURISDICTION. THE LOCATION OF WATER AND/OR SEWER SERVICES SHOWN ON THESE PLANS IS TO BE CONSIDERED TO BE SCHEMATIC AND HAS BEEN SHOWN ON THESE DRAWINGS FOR REFERENCE PURPOSES ONLY. SEE DETAILS OR ARCHITECTUAL DRAWINGS FOR EXACT LOCATION.

10. ALL DEDICATED FIRE LINES FROM PIV TO BUILDING AND FDC'S TO BE DESIGNED, PERMITTED, INSTALLED AND TESTED BY FIRE SPRINKLER DESIGNER/FIRE SPRINKLER CONTRACTOR.

11. CONTRACTOR IS MADE AWARE THAT OSHA REQUIRES A PROTECTIVE SYSTEM DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR EXCAVATIONS DEEPER THAN 20 FT.

12. CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO EXISTING ROADWAYS FROM CONSTRUCTION AREAS.

TREE PROTECTION & REMOVAL NOTES:

INSTALL ALL TREE PROTECTION FENCE PRIOR TO THE COMMENCEMENT OF LAND DISTURBANCE ACTIVITIES..

WATER & SANITARY SEWER NOTES:

1. THE EXISTING WATERLINE INFORMATION HAS BEEN SUPPLIED BY OTHERS. ITS LOCATION AND SIZE ARE APPROXIMATE. THE CONTRACTOR IS TO FIELD VERIFY THE EXACT SIZE AND LOCATION OF THE EXISTING WATERLINE PRIOR TO THE BEGINNING OF CONSTRUCTION.

2. THE CONTRACTOR IS TO COORDINATE THE WATERLINE TIE IN WITH BJWSA SEVENTY TWO (72) HOURS MINIMUM BEFORE WATERLINE SHUTDOWN.

3. WATERLINES 4" AND ABOVE ARE TO BE C900–DR18–CL150. ALL 2" WATERLINES ARE TO BE HDPE, AND ALL DUCTILE IRON PIPE (DIP) IS TO BE CL150.

4. WATER METERS ARE 1" DIA. UNLESS OTHERWISE NOTED, AND ARE TO BE PROVIDED AND SET BY BJWSA.

5. ALL SANITARY SEWER PIPE LENGTHS IN PLAN AND PROFILE VIEWS ARE TO THE CENTERLINE OF THE MANHOLES.

6. SANITARY SEWER PIPE IS TO BE PVC SDR26.

7. EXISTING MANHOLE LOCATION, RIM ELEVATION, AND INVERTS HAVE BEEN SUPPLIED BY THE SURVEYOR. THE PIPE LOCATION IS APPROXIMATE AND IS TO BE FIELD VERIFIED BY THE CONTRACTOR IF APPLICABLE.

8. SANITARY SEWER LATERALS ARE TO BE LAID WITH A MINIMUM SLOPE OF 2.00% AS SHOWN ON PLANS.

STORM SEWER NOTES:

1. RCP IS TO BE (CLIII). UNLESS OTHERWISE NOTED.

2. HDPE IS TO BE N–12 UNLESS OTHERWISE NOTED.

3. FOR DESIGN PURPOSES ALL PIPE LENGTHS IN THE PLAN AND PROFILE VIEWS ARE TO THE CENTERLINE OF THE STRUCTURE. (i.e.: CB, JB, OR OUTFALL, FOR PAYMENT IT WILL BE THE NET LENGTH INSTALLED)

4. SUBGRADE DRAIN IS TO BE 4" PERFORATED HDPE WITH GEOTEXTILE SOCK.

5. WRAP ALL JOINTS W/GEOTEXTILE FABRIC.

PROJECT REQUIREMENTS FOR HARGRAY TELEPHONE & CATV:

1. COMMERCIAL BUILDINGS–APARTMENTS–VILLAS TO HAVE A MINIMUM 4" DIAMETER CONDUIT SCH. 40 PVC WITH PULL STRING BURIED AT 24" TO 30" DEPTH, FROM THE EQUIPMENT ROOM OR POWER METER LOCATION TO A POINT DESIGNATED BY HARGRAY AT ROAD RIGHT–OF–WAY OR PROPERTY LINE. CONDUITS ARE REQUIRED FROM EACH BUILDING SITE & MULTIPLE CONDUITS MAY APPLY.

2. COMMERCIAL BUILDINGS WITH MULTIPLE "UNITS" MAY REQUIRE CONDUIT(S) MINIMUM 3/4" FROM MAIN EQUIPMENT ENTRY POINT TO TERMINATION POINT INSIDE UNIT. PLENUM TYPE CEILINGS REQUIRE CONDUITS OR FLAME RETARDANT TEFLON WIRING TO COMPLY WITH CODE.

3. HOTEL OR LARGE COMMERCIAL PROJECT REQUIREMENTS WOULD BE 2–4" DIAMETER SCH. 40 PVC UNDERGROUND CONDUITS.

4. EQUIPMENT ROOMS TO HAVE 3/4" 4'X8' SHEET OF PLYWOOD MOUNTED ON WALL TO RECEIVE TELEPHONE EQUIPMENT.

5. A POWER GROUND ACCESSIBLE AT EQUIPMENT ROOM OR AN INSULATED #6 FROM THE SERVICE PANEL OR POWER MGN TO THE BACKBOARD.

6. RESIDENTIAL WIRING REQUIRES MINIMUM THREE PAIR TWISTED IN LOOP CONFIGURATION (INDUSTRY STANDARD).

7. CATV INSIDE WIRING WILL BE RG6 FOIL WRAPPED 66% BRAID MINIMUM, HOME RUN TO EACH OUTLET.

8. ALL INTERIOR WIRING SHOULD BE PULLED TO THE AREA IMMEDIATELY ADJACENT TO THE PLYWOOD BACKBOARD OR POWER METER LOCATION. A MINIMUM OF 5' OF SLACK IS REQUIRED FOR TERMINATIONS.

9. EASEMENTS ARE REQUIRED.

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PLAN REVISIONS

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SOUTH CAROLINA PROFESSIONAL ENGINEER — STEVEN WADE — NO. 12860 — REGISTERED

SOUTH CAROLINA — ANDREWS ENGINEERING CO — NO. C00008 — CERTIFICATE OF AUTHORIZATION

Andrews Engineering & Surveying
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Site Development Plan
for
Harris Teeter C-Store
Sam's Point Road
Lady's Island
Beaufort County, SC

Typical Legend
and
Note Sheet

Date Drawn:	09/09/15
Last Revised:	03/11/21
Drawn By:	R. Crosby
Engineer:	S. Andrews

SHEET #: A

JOB: 150027

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SAM'S POINT ROAD SC HWY 802 150' R/W

SAMS POINT WAY (R/W VARIES)

ROBIN DR. R/W VARIES

SEA ISLAND PARKWAY US HWY 21 100' R/W

DEMO OUTFALL STRUCTURE
NON-JURISDICTIONAL STORMWATER POND (SEE SPECIAL NOTE #1)
UTILITY EASEMENT 10' EACH SIDE OF POWERLINE
DEMO CURB INLET
DEMO STORM PIPE
EXISTING POWER POLE
INV 24" RCP =8.69
INV 24" RCP =9.04
INV 24" RCP =7.70
INV 18" RCP=8.67
DEMO 24" RCP
DEMO 18" RCP
DEMO 15" RCP
DEMO 12" CMP
APPROXIMATE LOCATION OF EXISTING 14" FORCEMAIN
APPROXIMATE LOCATION OF EXISTING FORCEMAIN VALVE
EXISTING CONCRETE MEDIAN TO REMAIN
DEMO GRATE INLET RIM=13.53 INV 24" SE=8.35 INV 24" NW=8.24
DEMO GRATE INLET RIM=14.01 INV 18" SE=8.65 INV 24" NW=8.65
DEMO GRATE INLET RIM=13.57 INV 18" SE=9.70 INV 18" NW=9.67
DEMO GRATE INLET RIM=13.79 INV 15" NE=10.47 INV 18" SE=10.49 INV 18" NW=10.42
DEMO GRATE INLET RIM=13.64 INV 18" NW=10.50
DEMO GRATE INLET RIM=13.33 INV 12" NE=10.88 INV 15" SE=11.13 INV 15" SW=10.79
DEMO GROUND LIGHT
ERADICATE EXISTING STRIPING
RELOCATE PROPERTY LINE
DEMO SANITARY SEWER CLEANOUT
DEMO EXISTING BUILDING
DEMO WATER VALVE
WENDY'S DRIVE-THRU RESTAURANT
DEMO EXISTING LIGHT POLE (TYPICAL x 12)
DEMO EXISTING GROCERY STORE 39,000SF
DEMO 6" PVC
DEMO GREASE TRAP
DEMO ELECTRICAL BOXES
DEMO IRRIGATION VALVES
DEMO UG GAS TANK
DEMO IRRIGATION VALVES AND WATER METER
DEMO LIGHT POLE
DEMO FIBER OPTICS LINE
DEMO EXISTING MANHOLE
DEMO EXISTING 8" SEWER LINE
INV 12"CMP (FLAP GATE) SE=9.18
INV 15"RCP N=9.22
INV 18"RCP SW=9.07
NON-JURISDICTIONAL STORMWATER POND (SEE SPECIAL NOTE #1)
EXISTING SEWER MANHOLE RIM=13.47 INV8"ex.=6.58
REMOVE OVERHEAD POWER LINE
REMOVE TELEPHONE PEDESTAL
REMOVE GUY WIRES
DEMO EXISTING SEWER MANHOLE RIM=14.16 INV 8" SE=6.72 INV 8" NW=6.72
DEMO EXISTING SIGN
REMOVE OVERHEAD POWER LINE
20' UTILITY EASEMENT TO BE ABANDONED
DEMO GRATE INLET RIM=11.50? INV 12"CMP NW=9.97 INV 6"PVC SE=10.20
DEMO EXISTING 8" SEWER LINE
DEMO EXISTING BUILDING
DEMO EXISTING WATERLINE
REMOVE POWER POLES W/GUY WIRES AND TELEPHONE PEDESTAL
ABANDON EXISTING PROPERTY LINE
DEMO TELEPHONE LINE AND PEDESTAL
SANITARY SEWER TO BE REROUTED
DEMO PAVED DRIVEWAY AND SIDEWALK
REMOVE TELEPHONE PEDESTAL
CONVERT EX CURB INLET TO JUNCTION BOX
EXISTING 18" RCP
INV 18"RCP=6.82
INV 18"RCP=8.84
INV 18"RCP=9.42
GRATE INLET RIM=10.76 INV 18"RCP=8.31
EXISTING POWER POLE
EXISTING SWITCH GEAR
EXISTING SEWER MANHOLE RIM=15.16 INV8"us=8.50 INV8"ds=8.41
EXISTING SEWER MANHOLE RIM=15.43 INV 8" NE=8.08 INV 8" NW=8.03
RELOCATE EXISTING HWY. SIGN
DEMO WATERLINE VAULT
RELOCATE EXISTING STOP SIGN
INV 12" RCP =11.20
INV 15" RCP =11.14
REMOVE POWER POLE W/GUY WIRES
REMOVE TELEPHONE PEDESTAL
REMOVE OVERHEAD POWER LINES
EXISTING POWER POLE
90.25°

DATUM: NGVD29 VERTICAL / NAD83 HORZ.

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

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PLAN REVISIONS

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SOUTH CAROLINA ANDREWS ENGINEERING CO. No. C00008 CERTIFICATE OF AUTHORIZATION

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Fax 843.379.2223

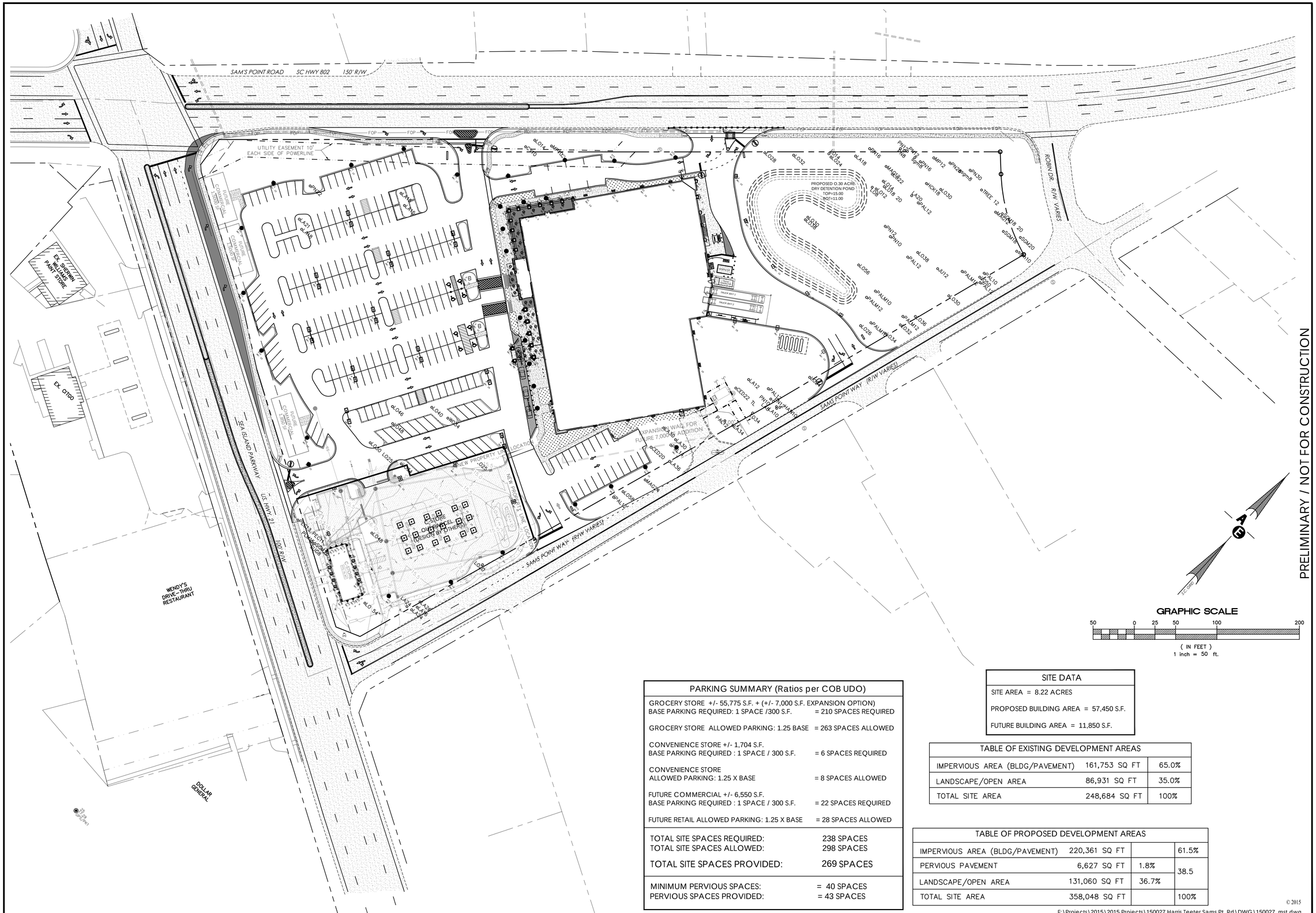
Site Development Plan
For
Harris Teeter
Sam's Point Road
Lady's Island
Beaufort County, SC

Existing Site and Demolition

Date Drawn:	09/09/15
Last Revised:	03/11/21
Drawn By:	R. Crosby
Engineer:	S. Andrews

SHEET #: 1

JOB: 150027



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& Surveying

Site Development Plan
For
Harris Teeter
Sam's Point Road
Lady's Island
Beaufort County, SC

Overall Site Plan

Date Drawn:	09/09/15
Last Revised:	03/11/21
Drawn By:	R. Crosby
Engineer:	S. Andrews

SHEET #: 2

JOB: 150027

PARKING SUMMARY (Ratios per COB UDO)	
GROCERY STORE +/- 55,775 S.F. + (+/- 7,000 S.F. EXPANSION OPTION) BASE PARKING REQUIRED: 1 SPACE /300 S.F.	= 210 SPACES REQUIRED
GROCERY STORE ALLOWED PARKING: 1.25 BASE	= 263 SPACES ALLOWED
CONVENIENCE STORE +/- 1,704 S.F. BASE PARKING REQUIRED : 1 SPACE / 300 S.F.	= 6 SPACES REQUIRED
CONVENIENCE STORE ALLOWED PARKING: 1.25 X BASE	= 8 SPACES ALLOWED
FUTURE COMMERCIAL +/- 6,550 S.F. BASE PARKING REQUIRED : 1 SPACE / 300 S.F.	= 22 SPACES REQUIRED
FUTURE RETAIL ALLOWED PARKING: 1.25 X BASE	= 28 SPACES ALLOWED
TOTAL SITE SPACES REQUIRED: TOTAL SITE SPACES ALLOWED:	238 SPACES 298 SPACES
TOTAL SITE SPACES PROVIDED:	269 SPACES
MINIMUM PERVIOUS SPACES: PERVIOUS SPACES PROVIDED:	= 40 SPACES = 43 SPACES

SITE DATA
SITE AREA = 8.22 ACRES
PROPOSED BUILDING AREA = 57,450 S.F.
FUTURE BUILDING AREA = 11,850 S.F.

TABLE OF EXISTING DEVELOPMENT AREAS		
IMPERVIOUS AREA (BLDG/PAVEMENT)	161,753 SQ FT	65.0%
LANDSCAPE/OPEN AREA	86,931 SQ FT	35.0%
TOTAL SITE AREA	248,684 SQ FT	100%

TABLE OF PROPOSED DEVELOPMENT AREAS			
IMPERVIOUS AREA (BLDG/PAVEMENT)	220,361 SQ FT		61.5%
PERVIOUS PAVEMENT	6,627 SQ FT	1.8%	38.5
LANDSCAPE/OPEN AREA	131,060 SQ FT	36.7%	
TOTAL SITE AREA	358,048 SQ FT		100%

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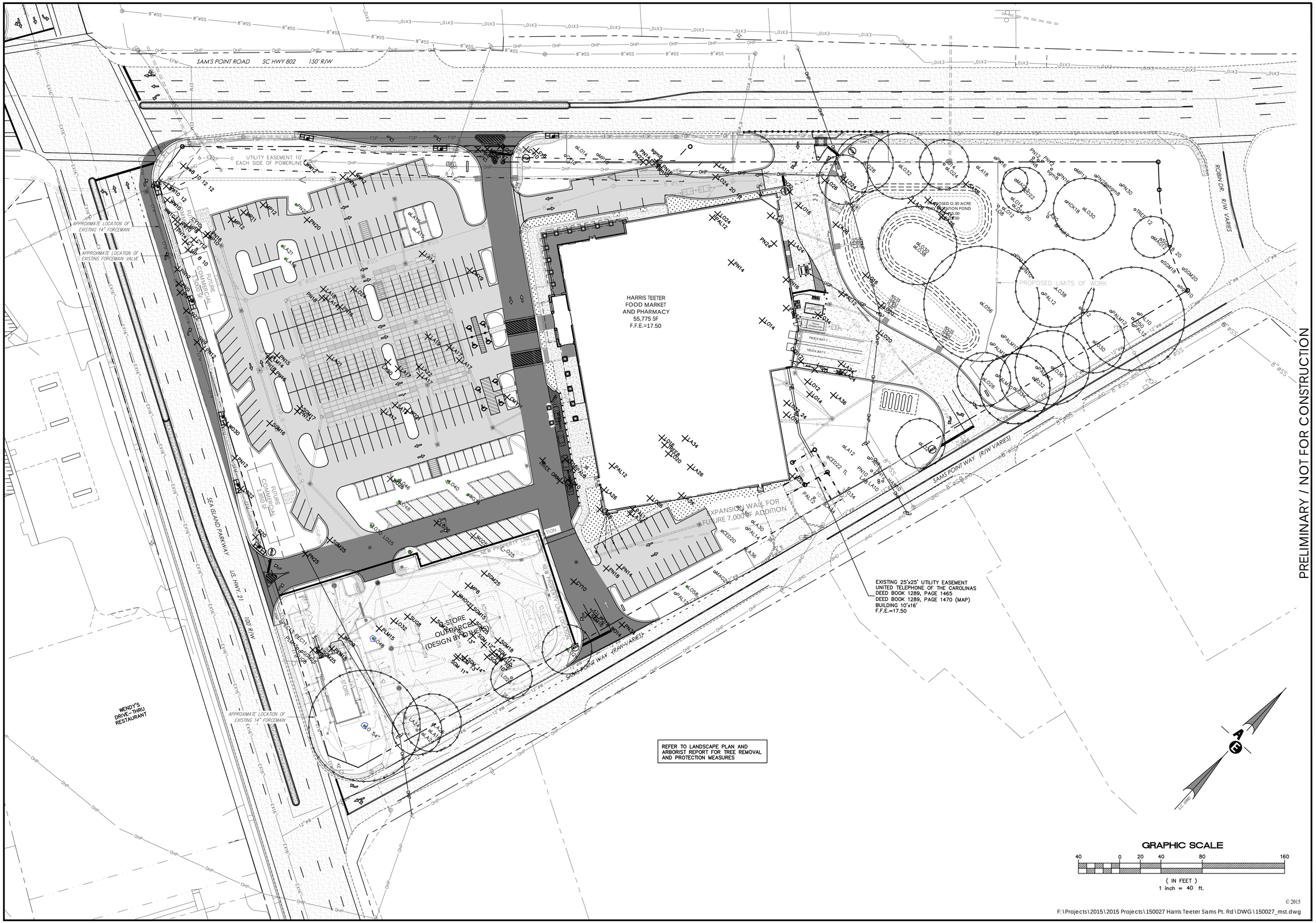

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PLAN REVISIONS

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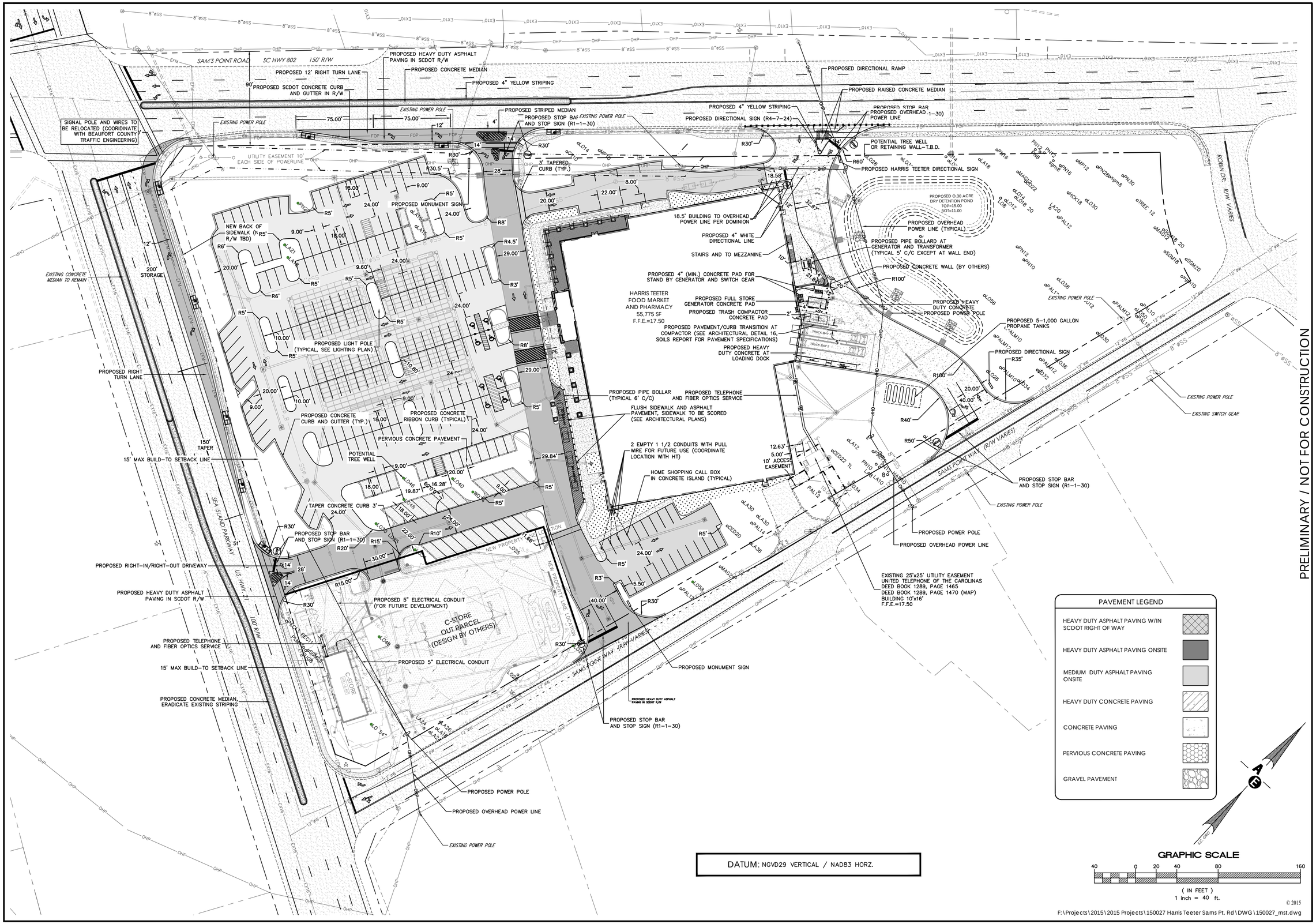
Site Development Plan
For
Harris Teeter
Sam's Point Road
Lady's Island
Beaufort County, SC

Tree Protection and Removal Plan

Date Drawn:	09/09/15
Last Revised:	03/11/21
Drawn By:	R. Crosby
Engineer:	S. Andrews

SHEET #:
8

JOB: 150027



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PLAN REVISIONS

NO.	DESCRIPTION:	DATE:	BY:
1	MOVE C-STORE TO BUILD-TO LINE	11/06/20	RL
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Site Development Plan
For
Harris Teeter
Sam's Point Road
Lady's Island
Beaufort County, SC

Site Plan

Date Drawn:	09/09/15
Last Revised:	03/11/21
Drawn By:	R. Crosby
Engineer:	S. Andrews

SHEET #: 9

JOB: 150027

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SAM'S POINT ROAD SC HWY 802 150' R/W

EXISTING FIRE HYD LI-1788

EXISTING POWER POLE

UTILITY EASEMENT 10' EACH SIDE OF POWERLINE

APPROXIMATE LOCATION OF EXISTING 14" FORCEMAIN

APPROXIMATE LOCATION OF EXISTING FORCEMAIN VALVE

EXISTING CONCRETE MEDIAN TO REMAIN

FUTURE OUTPARCEL BUILDINGS TO BE SERVED BY TAPPING EXISTING 16" WATER MAIN (IN FUTURE)

1-8"x6" REDUCER
1-6" GATE VALVE
12 LF 6" DIP
FIRE HYDRANT ASSEMBLY

FUTURE R/W AREA
799 SQ. FT.
0.02 ACRES

1-8"x2" TAPPING SADDLE
1-2" GATE VALVE W/TRAFFIC RATED BOX
1-WATER METER (BY BJWSA)
1-RPZ W/FREEZE PROTECTION (BY OTHERS)

1-8"x2" TAPPING SADDLE
1-2" GATE VALVE WITH BOX
1-WATER METER (BY BJWSA)
1-RPZ W/FREEZE PROTECTION (BY OTHERS)

18 LF DIP CENTERED ON SEWER/WATER CROSSING (WATER ABOVE SEWER)

18 LF DIP CENTERED ON STORM/WATER CROSSING (WATER UNDER STORM)

FUTURE R/W AREA
1,318 SQ. FT.
0.03 ACRES

340 LF 8" PVC WATERLINE (C900-DR18)

1-8"x2" TAPPING SADDLE
1-2" GATE VALVE W/TRAFFIC BOX
1-WATER METER (BJWSA)
1-RPZ W/FREEZE PROTECTION (BY OTHERS)

36 LF DIP CENTERED ON STORM CROSSINGS

18 LF DIP CENTERED ON STORM/WATER CROSSING (WATER UNDER STORM-TYPICAL)

1-8"x6" REDUCER
1-6" GATE VALVE IN TRAFFIC RATED BOX
25 LF 6" DIP
FIRE HYDRANT ASSEMBLY

1-8"x8" MJ TEE
2-8" GATE VALVES W/TRAFFIC RATED BOXES & MARKERS

170 LF 8" PVC WATERLINE (C900-DR18)

36 LF DIP CENTERED ON STORM CROSSINGS

195 LF 8" PVC WATERLINE (C900-DR18)

1-90° MJ BEND W/MARKER

1-8"x2" TAPPING SADDLE
1-2" GATE VALVE W/TRAFFIC RATED BOX
1-WATER METER (BY BJWSA)
1-RPZ W/FREEZE PROTECTION (BY OTHERS)
28 LF 2" HDPE TO METER
90 LF 2" WATERLINE TO BUILDING

C-STORE OUT PARCEL (DESIGN BY OTHERS)

PROPERTY LINE LOCATION

NEW PROPERTY LINE LOCATION

HARRIS TEETER FOOD MARKET AND PHARMACY
55,775 SF
F.F.E.=17.50

SPRINKLER RISER ROOM

REMOTE FIRE DEPARTMENT CONNECTION (FDC) *DESIGN BY OTHERS*

1-8"x6" REDUCER
1-6" GATE VALVE
8 LF 6" DIP
FIRE HYDRANT ASSEMBLY

1-8"x2" TAPPING SADDLE
1-2" GATE VALVE WITH BOX
1-WATER METER (BY BJWSA)
1-RPZ W/FREEZE PROTECTION (BY OTHERS)

1-8"X8X8" MJ TEE
1-8" GATE VALVE WITH LOCK BOX
1-8" PIV
1-RPZ (WITH OUTSIDE ACCESS, BY OTHERS)
(LOCATION TBD BY FIRE MARSHAL)
ABOVE AND UNDERGROUND FIRE SYSTEM TO BE DESIGNED AND PERMITTED BY OTHERS.

1-45° MJ BEND

18 LF DIP CENTERED ON UTILITY CROSSING (WATER UNDER STORM)

85 LF 8" PVC WATERLINE (C900-DR18)

1-22.5° MJ BEND

18 LF DIP CENTERED ON UTILITY CROSSING (WATER UNDER STORM)

190 LF 8" PVC WATERLINE (C900-DR18)

18 LF DIP CENTERED ON UTILITY CROSSING (WATER UNDER STORM)

R250.00'

ROBIN DR. R/W VARIES

EXISTING POWER POLE

EXISTING SWITCH GEAR

SAMS POINT WAY (R/W VARIES)

CONNECT TO EXISTING WATERLINE
CUT IN 12"x8" TEE
1-12" GATE VALVE W/TRAFFIC RATED BOX AND MARKER
1-8" GATE VALVE W/TRAFFIC RATED BOX

EXISTING 25'x25' UTILITY EASEMENT UNITED TELEPHONE OF THE CAROLINAS DEED BOOK 1289, PAGE 1465
DEED BOOK 1289, PAGE 1470 (MAP
BUILDING 10'x16'
F.F.E.=17.50

EXISTING FIRE HYD LI-0017

CONNECT TO EXISTING WATERLINE
1-12"x8" TAPPING SADDLE W/VALVE

EXISTING FIRE HYD LI-1790

EXISTING FIRE HYD LI-1170

SEA ISLAND PARKWAY U.S. HWY 21 100 R/W

WENDY'S DRIVE-THRU RESTAURANT

NOTE:
1. CONTRACTOR TO FIELD VERIFY DEPTH AND LOCATION OF EXISTING WET/DRY UTILITIES BEFORE CONSTRUCTION AND TO COORDINATE SHUTDOWN OF WATERLINE WITH BJWSA 72 HOURS IN ADVANCE OF BEGINNING WATERLINE CONNECTIONS AND/OR CONSTRUCTION.

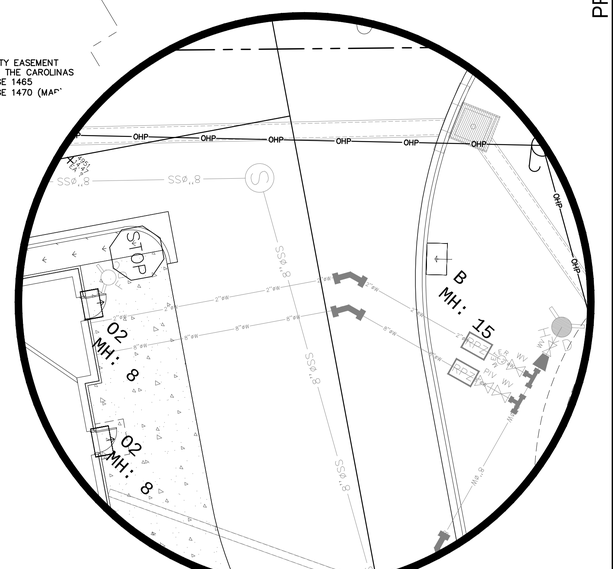
2. ALL DEDICATED FIRE LINES FROM PIV TO BUILDING AND FDC'S TO BE DESIGNED & INSTALLED BY FIRE SPRINKLER DESIGNER/FIRE SPRINKLER CONTRACTOR.

3. LOCATION OF WATER/SEWER SERVICES TO STRUCTURES AS SHOWN ARE TO BE CONSIDERED SCHEMATIC. NOT TO BE USED FOR STAKING. SEE DETAILS OR ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.

4. ALL BENDS GREATER THAN 22.5°, VALVES AND AIR RELEASE VALVES EXCEPT HYDRANT VALVES SHALL BE MARKED WITH A CONCRETE MARKER

5. CONTRACTOR TO INSTALL BLUE RPM IN PAVEMENT IN FRONT OF EACH FIRE HYDRANT.

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.



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PRELIMINARY / NOT FOR CONSTRUCTION

PLAN REVISIONS

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SOUTH CAROLINA PROFESSIONAL ENGINEER SEALED AND SIGNED Stephen Andrews NO. 12860

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION ANDREWS ENGINEERING CO. No. C00008

Andrews Engineering
& Surveying
2712 Bull Street Suite A
Beaufort, SC 29902
843.379.2222
Fax 843.379.2223

Site Development Plan
For
Harris Teeter
Sam's Point Road
Lady's Island
Beaufort County, SC

Waterline Plan

Date Drawn:	09/09/15
Last Revised:	02/25/21
Drawn By:	R. Crosby
Engineer:	S. Andrews

SHEET #: 10

JOB: 150027

PRELIMINARY / NOT FOR CONSTRUCTION

SAM'S POINT ROAD SC HWY 802 150' R/W

CONNECT PROPOSED 8" SEWER PIPE TO EXISTING MANHOLE @ INV=6.60 (GROUT EXISTING INV. HOLE AND CORE DRILL AND BOOT FOR NEW 8" CONNECTION)

EXISTING MANHOLE
STA: 0+00.00 SSWRA
RIM=13.69
INVus=6.60

EXISTING SEWER MANHOLE
RIM=13.47
INV8"ex.=6.58

21 LF 8" PVC (SDR26) SLOPE @ 0.30%

116 LF 8" PVC (SDR26) SLOPE @ 0.40%

MH#B1
STA: 0+21.16 SSWRA
RIM=15.40
INVus=7.16
INVds=7.14

MH#A1
STA: 0+21.16 SSWRA
RIM=15.76
INVus=6.68
INVus=6.68
INVds=6.66

MH#A2
STA: 0+88.88 SSWRA
RIM=16.12
INVus=6.90
INVds=6.88

6" SANITARY SEWER LATERAL WITH CLEANOUT, SLOPE @ 1.00%, DUAL SWEEP CLEANOUTS AT BUILDING LINE

APPROXIMATE LOCATION OF EXISTING 14" FORCEMAIN

APPROXIMATE LOCATION OF EXISTING FORCEMAIN VALVE

EXISTING CONCRETE MEDIAN TO REMAIN

MH#B2
STA: 1+89.36 SSWRB
RIM=15.06
INVus=8.66
INVds=8.64

174 LF 8" PVC (SDR26) SLOPE @ 0.40%

290 LF 8" PVC (SDR26) SLOPE @ 0.40%

6" SANITARY SEWER LATERAL WITH CLEANOUT, SLOPE @ 1.00%, DUAL SWEEP CLEANOUTS AT BUILDING LINE

MH#B3
STA: 7+79.36 SSWRB
RIM=15.45
INVus=9.99
INVds=9.81

6" SANITARY SEWER LATERAL WITH CLEANOUT, SLOPE @ 1.00%, DUAL SWEEP CLEANOUTS AT BUILDING LINE

3" GREASE LINE VENT

68 LF 8" PVC (SDR26) SLOPE @ 0.30%

117 LF 8" PVC (SDR26) SLOPE @ 0.30%

PROPOSED 0.30 ACRE DRY DETENTION POND TOP=15.00 BOT=11.00

6" SEWER LATERAL W/DUAL SWEEP C.O. SLOPE @ 1.00% (TIE INTO GREASE TRAP)

INSTALL 2 GREASE INTERCEPTORS IN SERIES, EACH SHALL BE 1,000 GALLON CAPACITY. TRAPS AND CLEANOUTS TO BE TRAFFIC RATED. SEE MEP PLANS FOR VENTILATION TO BUILDING. RIMS VARY (SEE DETAIL)

HARRIS TEETER
FOOD MARKET
AND PHARMACY
55,775 SF
F.F.E.=17.50

MH#A3
STA: 2+06.04 SSWRA
RIM=13.78
INVus=7.27
INVds=7.25

CONNECT PROPOSED 6" LATERAL TO 8" SEWER MAIN

74 LF 8" PVC (SDR26) SLOPE @ 0.30%

MH#A4
STA: 2+79.79 SSWRA
RIM=13.89
INVus=7.51
INVds=7.49

INSTALL 1-500 GALLON CAPACITY GREASE INTERCEPTOR. TRAPS AND CLEANOUTS TO BE TRAFFIC RATED, SEE MEP PLANS FOR VENTILATION TO BUILDING. RIMS VARY (SEE DETAIL)

72 LF 8" PVC (SDR26) SLOPE @ 0.30%

PROPOSED 5-1,000 GALLON PROPANE TANKS

PROPOSED 6" SEWER LATERAL, INV.=11.50 SLOPE @ 1.00%, DUAL SWEEP CLEANOUT

MH#A5 (DROP MANHOLE)
STA: 3+51.52 SSWRA
RIM=15.12
INVus=10.67
INVds=7.72
INVus=7.73

EXISTING SEWER MANHOLE
SH19-028
RIM=15.16
INV8"us=8.50
INV8"ds=8.41

CONNECT EXISTING 8" SEWER PIPE TO PROPOSED DROP MANHOLE @ INV=7.70±

EXISTING SEWER MANHOLE
RIM=15.43
INV 8" NE=8.08
INV 8" NW=8.03

EXISTING 25'x25' UTILITY EASEMENT
UNITED TELEPHONE OF THE CAROLINAS
DEED BOOK 1289, PAGE 1465
DEED BOOK 1289, PAGE 1470 (MAP)
BUILDING 10'x16'
F.F.E.=17.50

OUT PARCEL (DESIGN BY OTHERS)

EXISTING POWER POLE

EXISTING SWITCH GEAR

EXISTING 18" RCP

INV 18"RCP=6.82

INV 18"RCP=8.84

INV 18"RCP=9.42

ROBIN DR. R/W VARIES

SEA ISLAND PARKWAY U.S. HWY. 21 100' R/W

SAMS POINT WAY (R/W VARIES)

WENDY'S DRIVE-THRU RESTAURANT

G-STORE

NEW PROPERTY LINE LOCATION

DATUM: NGVD29 VERTICAL / NAD83 HORZ.

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

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PLAN REVISIONS

NO.	DESCRIPTION:	DATE:	BY:
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SOUTH CAROLINA PROFESSIONAL ENGINEER — CAROL ANA ANDREWS — NO. 18860 — ANDREWS ENGINEERING CO. No. C00008 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL SURVEYOR — STEVEN ANDREWS — NO. 15230 — OFFICIAL SEAL

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Beaufort, SC 29902
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Fax 843.379.2223

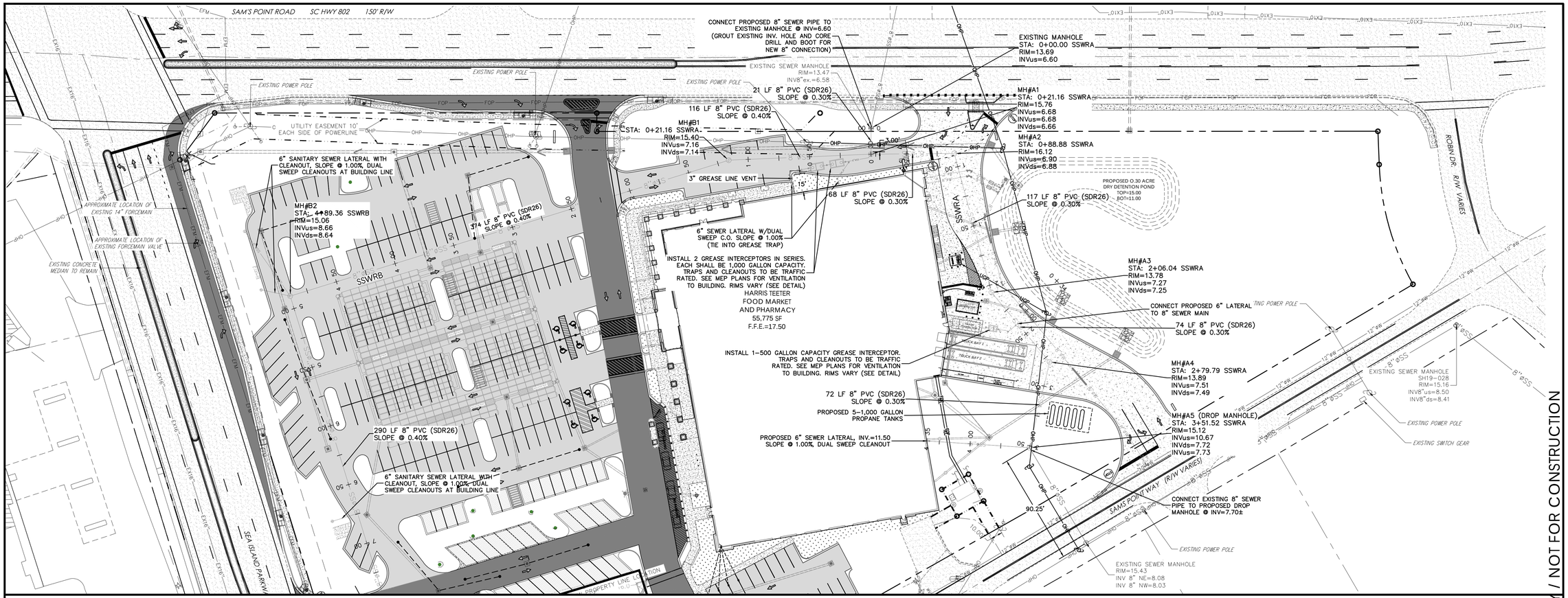
Site Development Plan
For
Harris Teeter
Sam's Point Road
Lady's Island
Beaufort County, SC

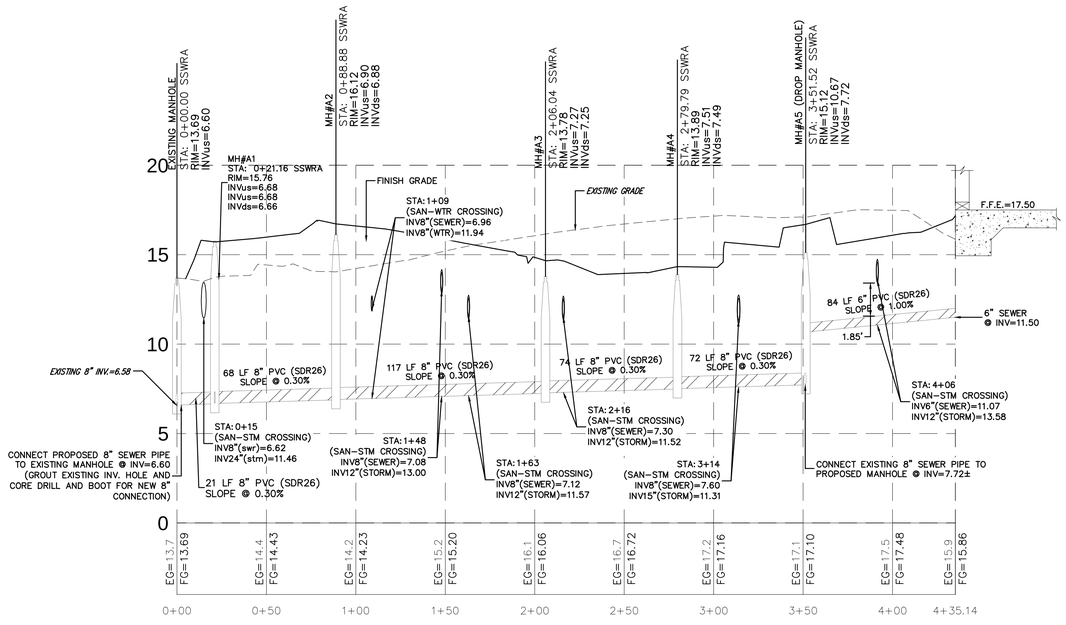
Sanitary Sewer Options

Date Drawn:	09/09/15
Last Revised:	03/11/21
Drawn By:	R. Crosby
Engineer:	S. Andrews

SHEET #: 11

JOB: 150027

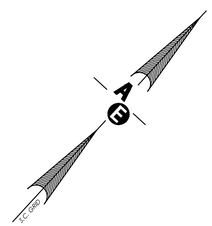




SSWRA PROFILE

SCALE: VERT 1"=4' HORZ 1"=40'

DATUM: NGVD29 VERTICAL / NAD83 HORZ.



GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

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PLAN REVISIONS

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SOUTH CAROLINA PROFESSIONAL ENGINEER SAMUEL ANDREWS NO. 12860 REGISTERED SURVEYOR SAMUEL ANDREWS NO. 12860 STATE OF SOUTH CAROLINA

ANDREWS ENGINEERING CO. No. C00008 CERTIFICATE OF AUTHORIZATION

Andrews Engineering & Surveying
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Beaufort, SC 29902
843.379.2222
Fax 843.379.2223

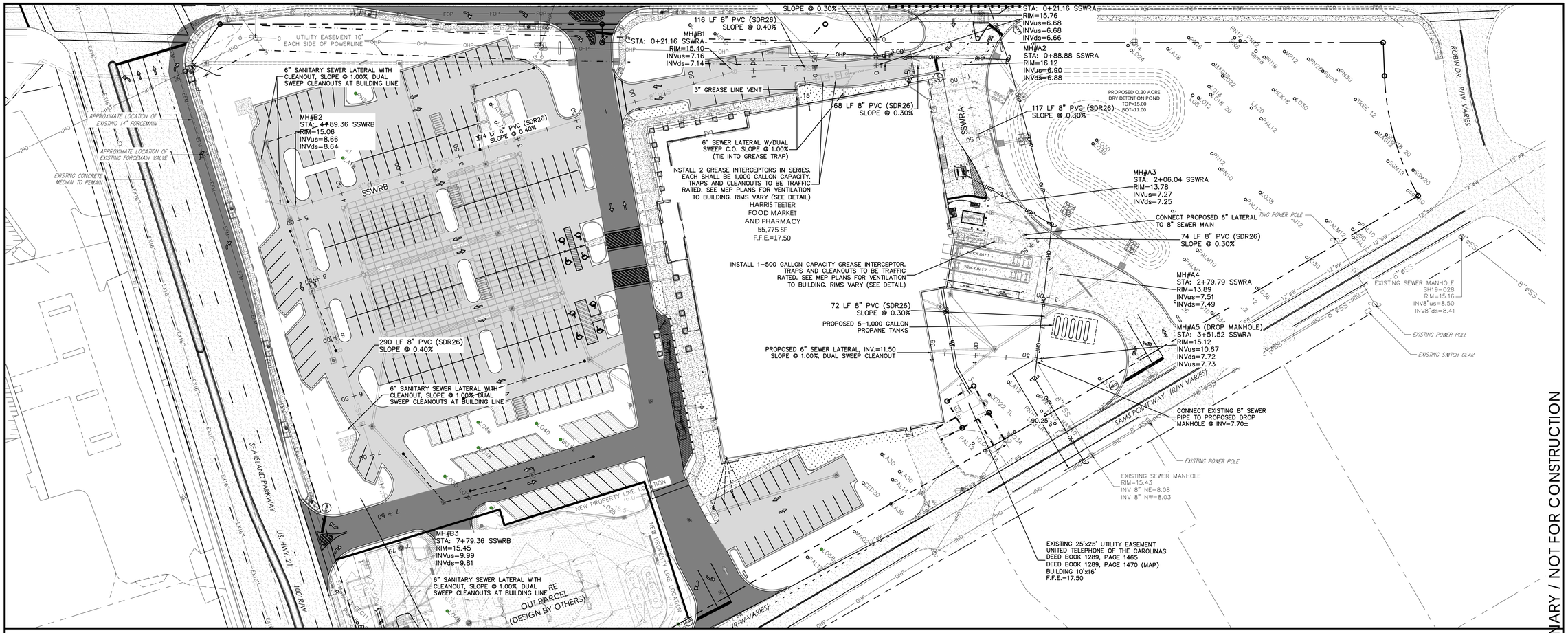
Site Development Plan
For
Harris Teeter
Sam's Point Road
Lady's Island
Beaufort County, SC

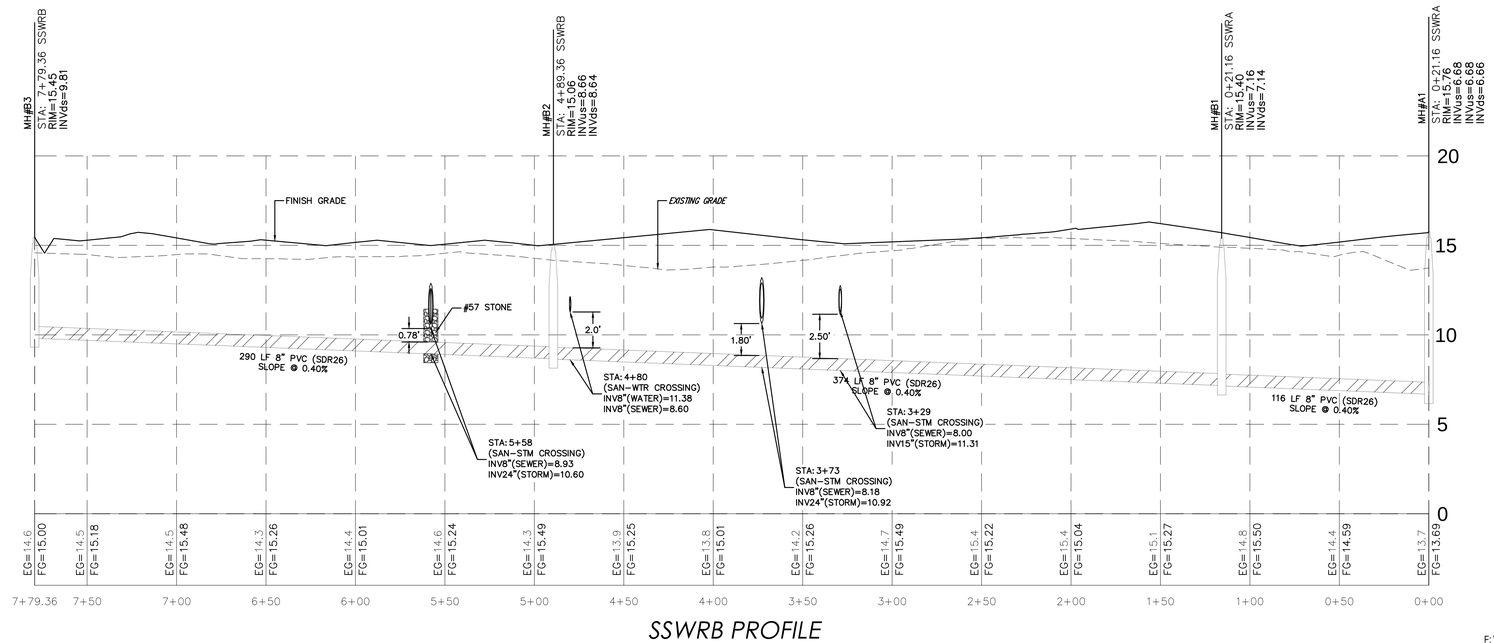
Sanitary Sewer
Plan/Profile

Date Drawn:	09/09/15
Last Revised:	03/11/21
Drawn By:	R. Crosby
Engineer:	S. Andrews

SHEET #: 12

JOB: 150027





SSWRB PROFILE

DATUM: NGVD29 VERTICAL / NAD83 HORZ.

PRELIMINARY / NOT FOR CONSTRUCTION

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

PLAN REVISIONS

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Site Development Plan
For
Harris Teeter
Sam's Point Road
Lady's Island
Beaufort County, SC

Sanitary Sewer
Plan/Profile

Date Drawn:	09/09/15
Last Revised:	03/11/21
Drawn By:	R. Crosby
Engineer:	S. Andrews

SHEET #: 13

JOB: 150027

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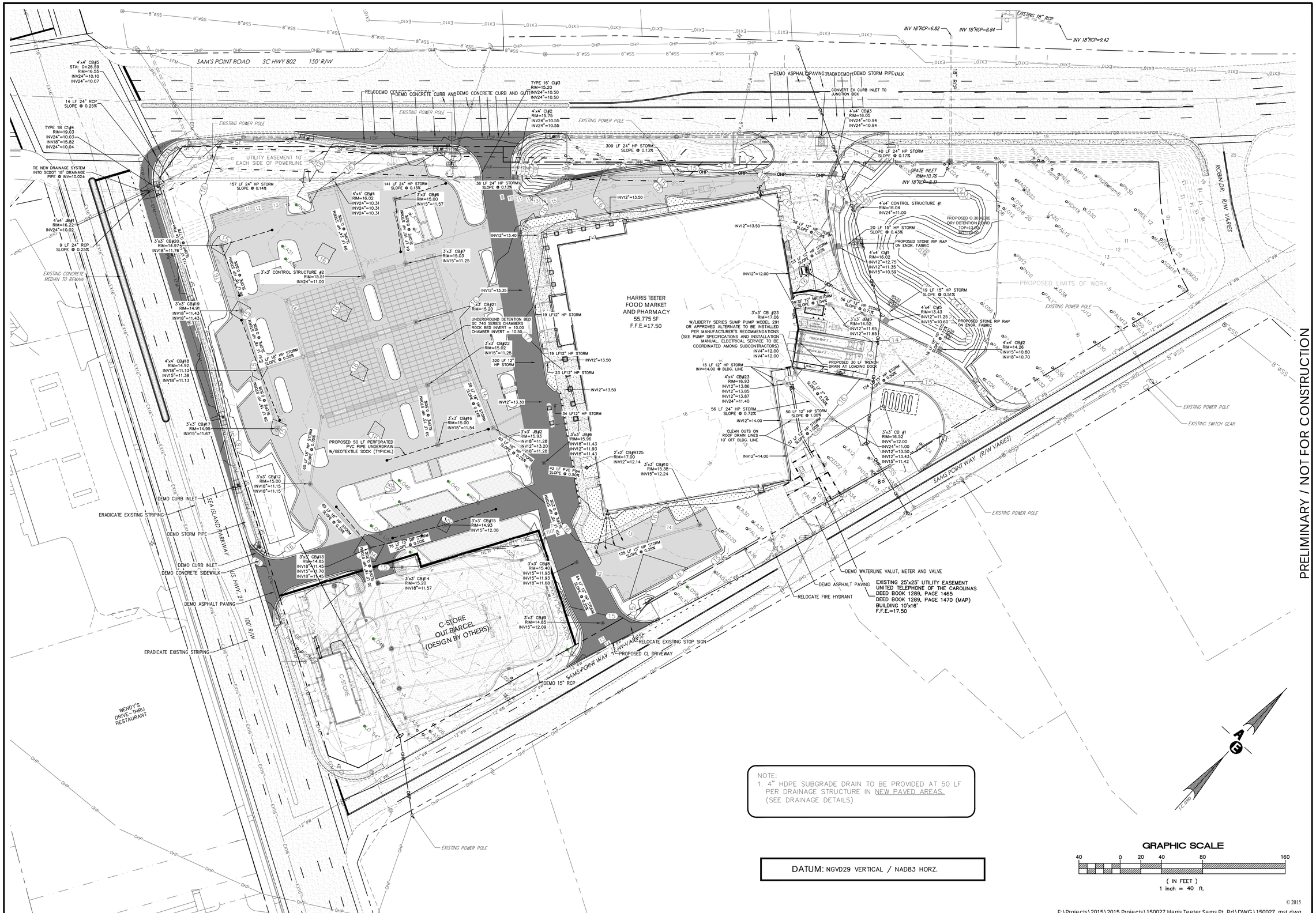

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PLAN REVISIONS

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SOUTH CAROLINA PROFESSIONAL ENGINEER SEAL 12860 STEVEN M. ANDREWS REGISTERED — ANDREWS ENGINEERING CO. No. C00008 CERTIFICATE OF AUTHORIZATION

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Site Development Plan
For
Harris Teeter
Sam's Point Road
Lady's Island
Beaufort County, SC

Storm Drainage Plan

Date Drawn:	09/09/15
Last Revised:	03/11/21
Drawn By:	R. Crosby
Engineer:	S. Andrews

SHEET #: 14

JOB: 150027

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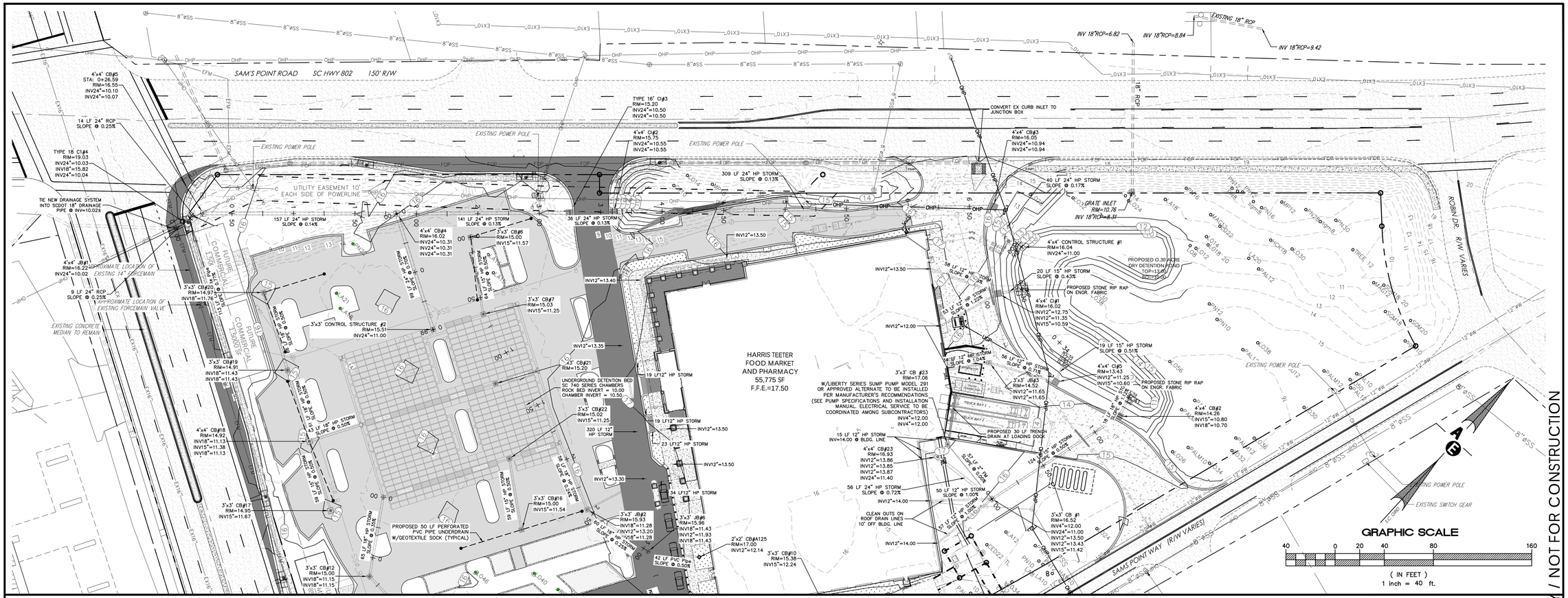
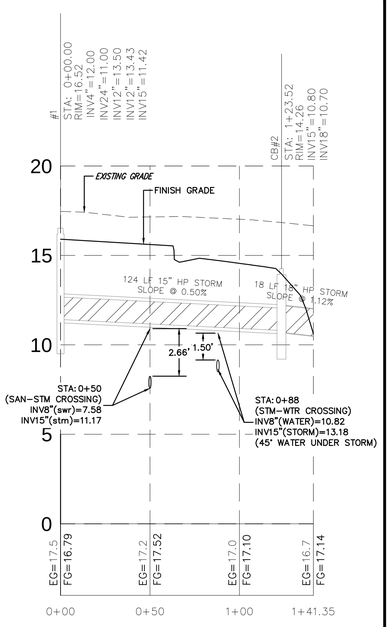
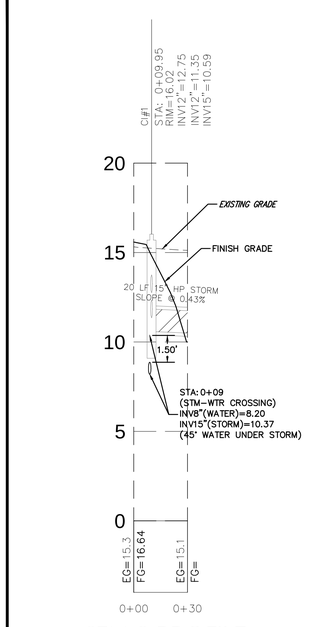




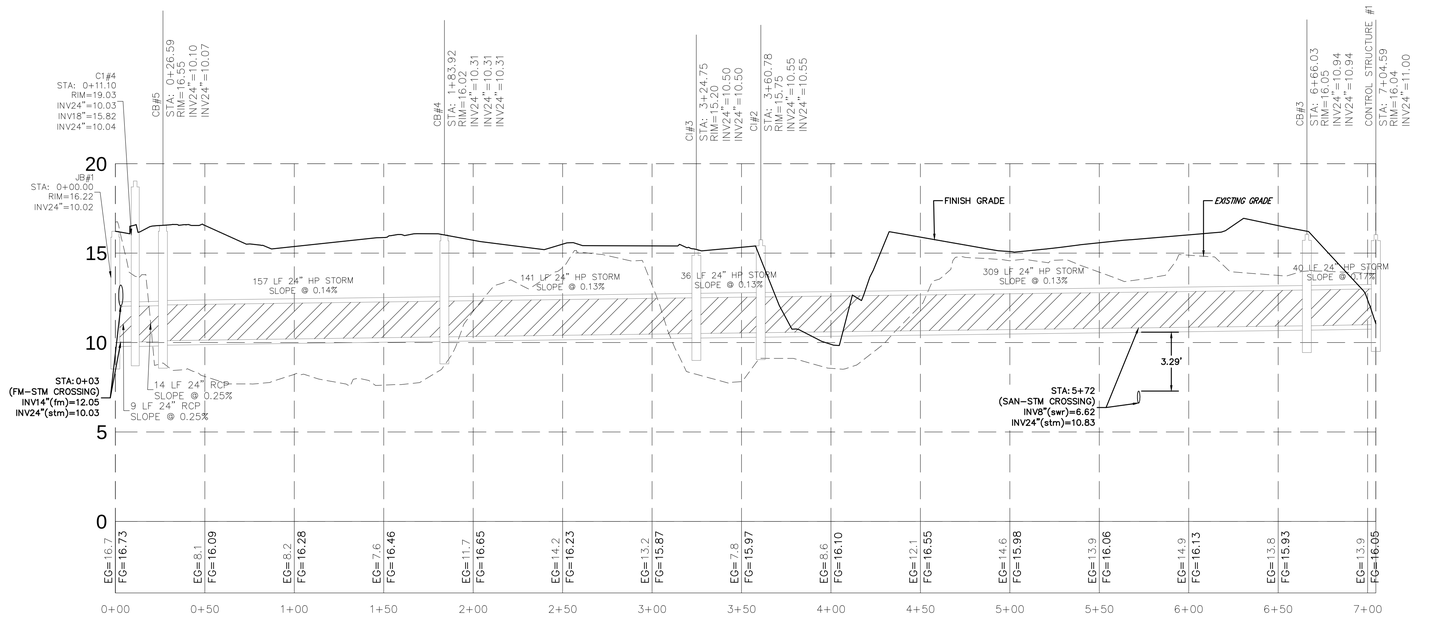
STM 1 PROFILE

SCALE: VERT 1"=4' HORZ 1"=40'



STM 2 PROFILE

SCALE: VERT 1"=4' HORZ 1"=40'



STM 3 PROFILE

SCALE: VERT 1"=4' HORZ 1"=40'

PRELIMINARY / NOT FOR CONSTRUCTION

PLAN REVISIONS		
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SOUTH CAROLINA PROFESSIONAL ENGINEER — NO. 12860 — SURVEYOR — NO. C00008 — ANDREWS ENGINEERING CO. — CERTIFICATE OF AUTHORIZATION

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Site Development Plan
For
Harris Teeter
Sam's Point Road
Lady's Island
Beaufort County, SC

Storm Drainage
Plan/Profile
STM 1 - STM 3

Date Drawn:	09/09/15
Last Revised:	03/11/21
Drawn By:	R. Crosby
Engineer:	S. Andrews

SHEET #: 15

JOB: 150027

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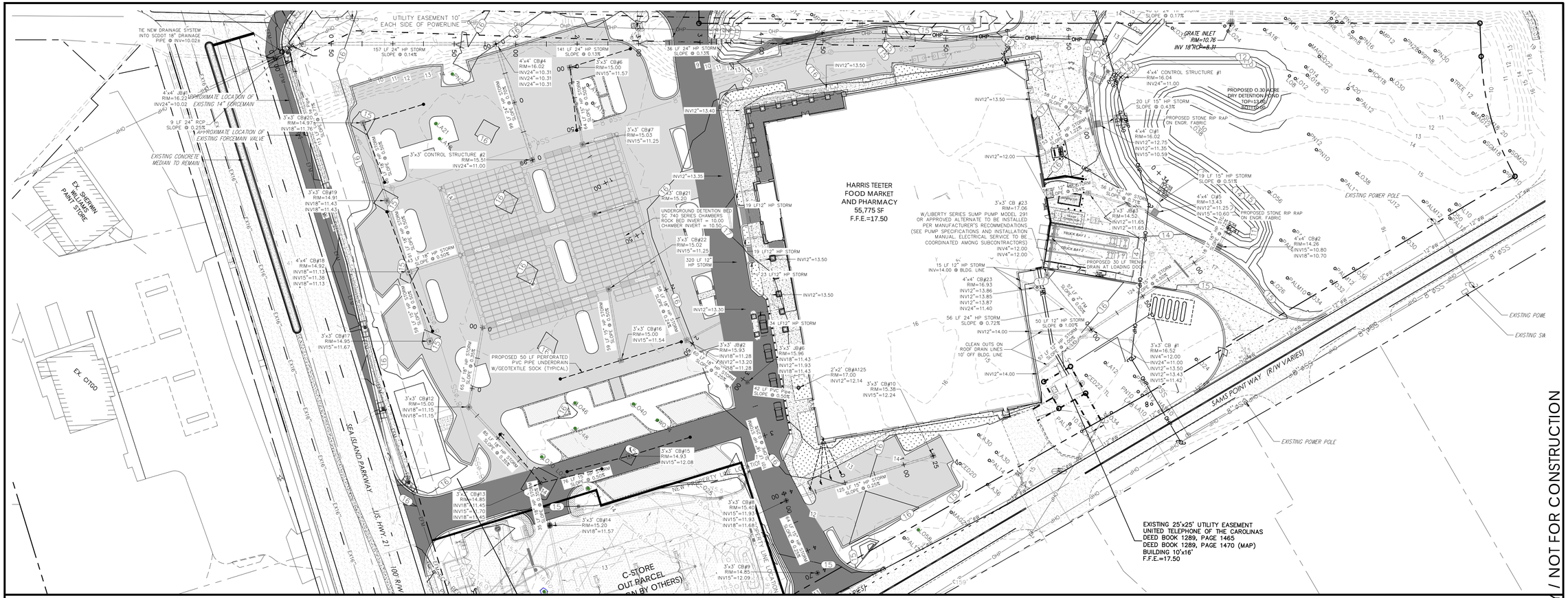
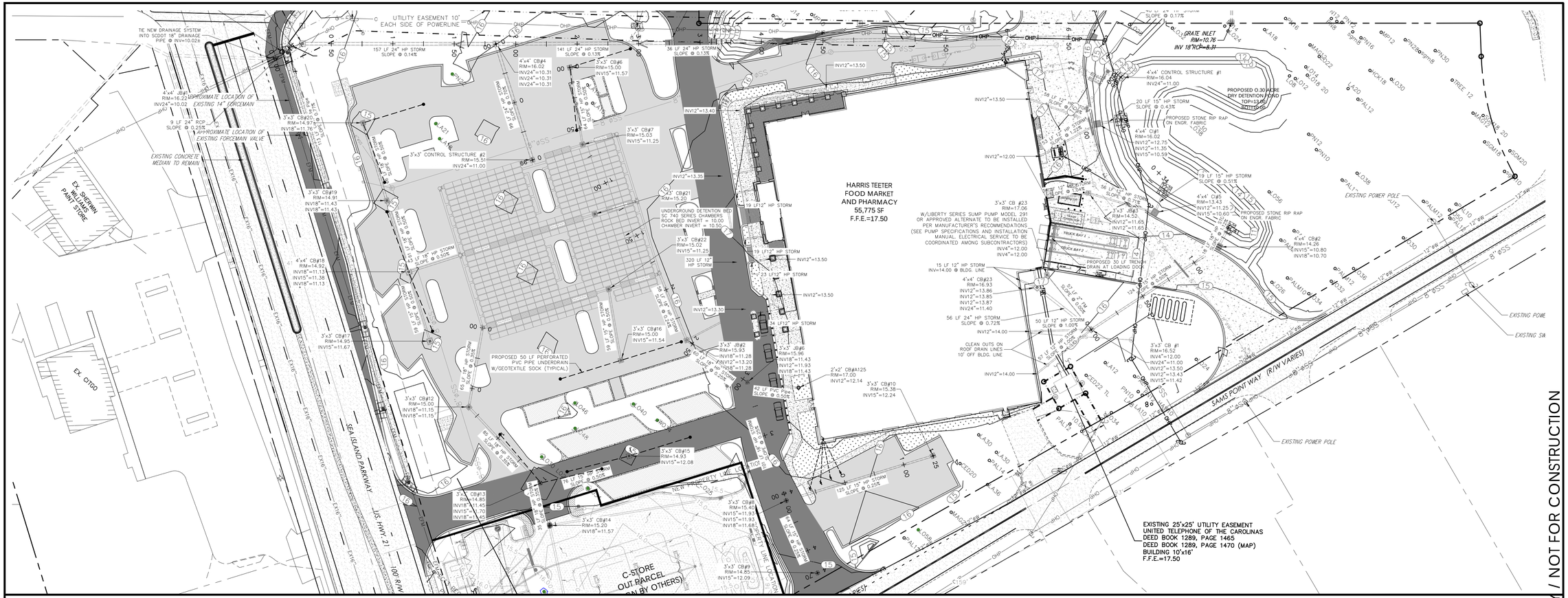

HARRIS TEETER
FOOD MARKET
AND PHARMACY
55,775 SF
F.F.E.=17.50
PROPOSED 0.30 ACRE
DRY DETENTION POND
TOP=13.40
BOTTOM=9.00
PROPOSED STONE RIP RAP
ON ENGR. FABRIC
UNDERGROUND DETENTION BED
SC 740 SERIES CHAMBERS
ROCK BED INVERT = 10.00
CHAMBER INVERT = 10.50
W/LIBERTY SERIES SUMP PUMP MODEL 291
OR APPROVED ALTERNATE TO BE INSTALLED
PER MANUFACTURER'S RECOMMENDATIONS
(SEE PUMP SPECIFICATIONS AND INSTALLATION
MANUAL. ELECTRICAL SERVICE TO BE
COORDINATED AMONG SUBCONTRACTORS)
PROPOSED 50 LF PERFORATED
PVC PIPE UNDERDRAIN
W/GEOTEXTILE SOCK (TYPICAL)
PROPOSED 30 LF TRENCH
DRAIN AT LOADING DOCK
CLEAN OUTS ON
ROOF DRAIN LINES
10' OFF BLDG. LINE
GRATE INLET
RIM=10.76
INV 18"RCP=8.37
EXISTING 25'x25' UTILITY EASEMENT
UNITED TELEPHONE OF THE CAROLINAS
DEED BOOK 1289, PAGE 1465
DEED BOOK 1289, PAGE 1470 (MAP)
BUILDING 10'x16'
F.F.E.=17.50
SAMS POINT WAY (R/W VARIES)
SEA ISLAND PARKWAY (U.S. HWY. 21)
100' R/W
EXISTING POWER POLE
EXISTING SW
EXISTING CONCRETE
MEDIAN TO REMAIN
APPROXIMATE LOCATION OF
EXISTING 14" FORCEMAIN
APPROXIMATE LOCATION OF
EXISTING FORCEMAIN VALVE
EX. SHERWIN
WILLIAMS
PAINT STORE
EX. GTOO
C-STORE
OUT PARCEL
(PLAN BY OTHERS)
UTILITY EASEMENT 10'
EACH SIDE OF POWERLINE
TIE NEW DRAINAGE SYSTEM
INTO SCDOT 18" DRAINAGE
PIPE @ INV=10.02±
NEW PROPERTY LINE
PROPERTY LINE LOCATION
TRUCK BAY 1
TRUCK BAY 2
TRUCK BAY 3
EMERGENCY
ENTRANCE
ONLY
ENTRANCE
EXIT
EXIT ONLY
EXIT ONLY
ENTRANCE
ONLY
ENTRANCE
ONLY
EXIT ONLY
EXIT ONLY
EXIT



PRELIMINARY / NOT FOR CONSTRUCTION

PLAN REVISIONS		
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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 12860 SCOTT ANDREWS

SOUTH CAROLINA ANDREWS ENGINEERING CO. No. C00008 CERTIFICATE OF AUTHORIZATION

Andrews Engineering & Surveying
2712 Bull Street Suite A
Beaufort, SC 29902
843.379.2222
Fax 843.379.2223

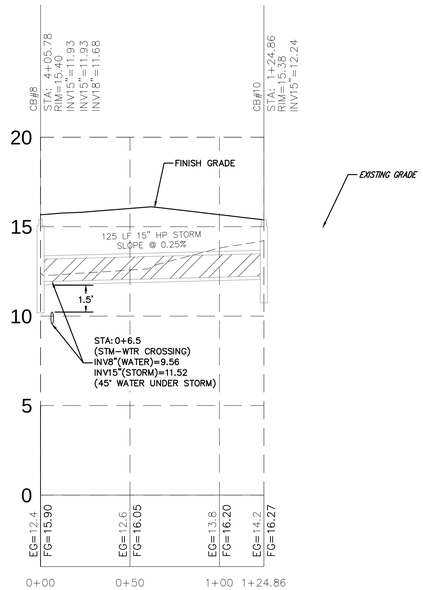
Site Development Plan
For
Harris Teeter
Sam's Point Road
Lady's Island
Beaufort County, SC

Storm Drainage
Plan/Profile
STM 6 - STM 8

Date Drawn:	09/09/15
Last Revised:	03/11/21
Drawn By:	R. Crosby
Engineer:	S. Andrews

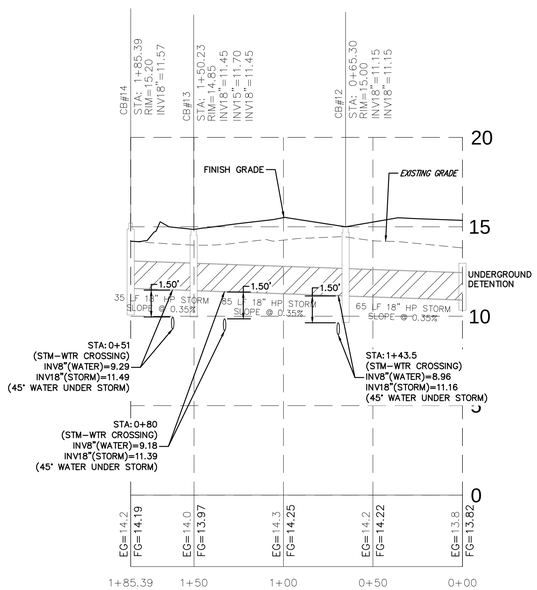
SHEET #: 17

JOB: 150027



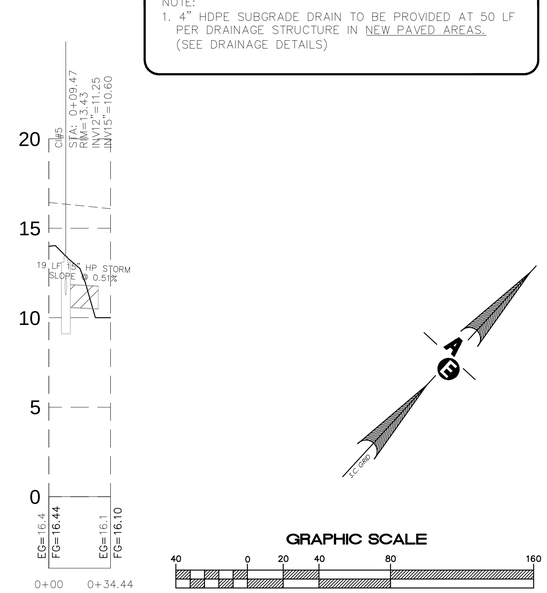
STM 6 PROFILE

SCALE: VERT 1"=4' HORZ 1"=40'



STM 7 PROFILE

NOTE:
1. 4" HDPE SUBGRADE DRAIN TO BE PROVIDED AT 50 LF PER DRAINAGE STRUCTURE IN NEW PAVED AREAS. (SEE DRAINAGE DETAILS)



STM 8 PROFILE

SCALE: VERT 1"=4' HORZ 1"=40'

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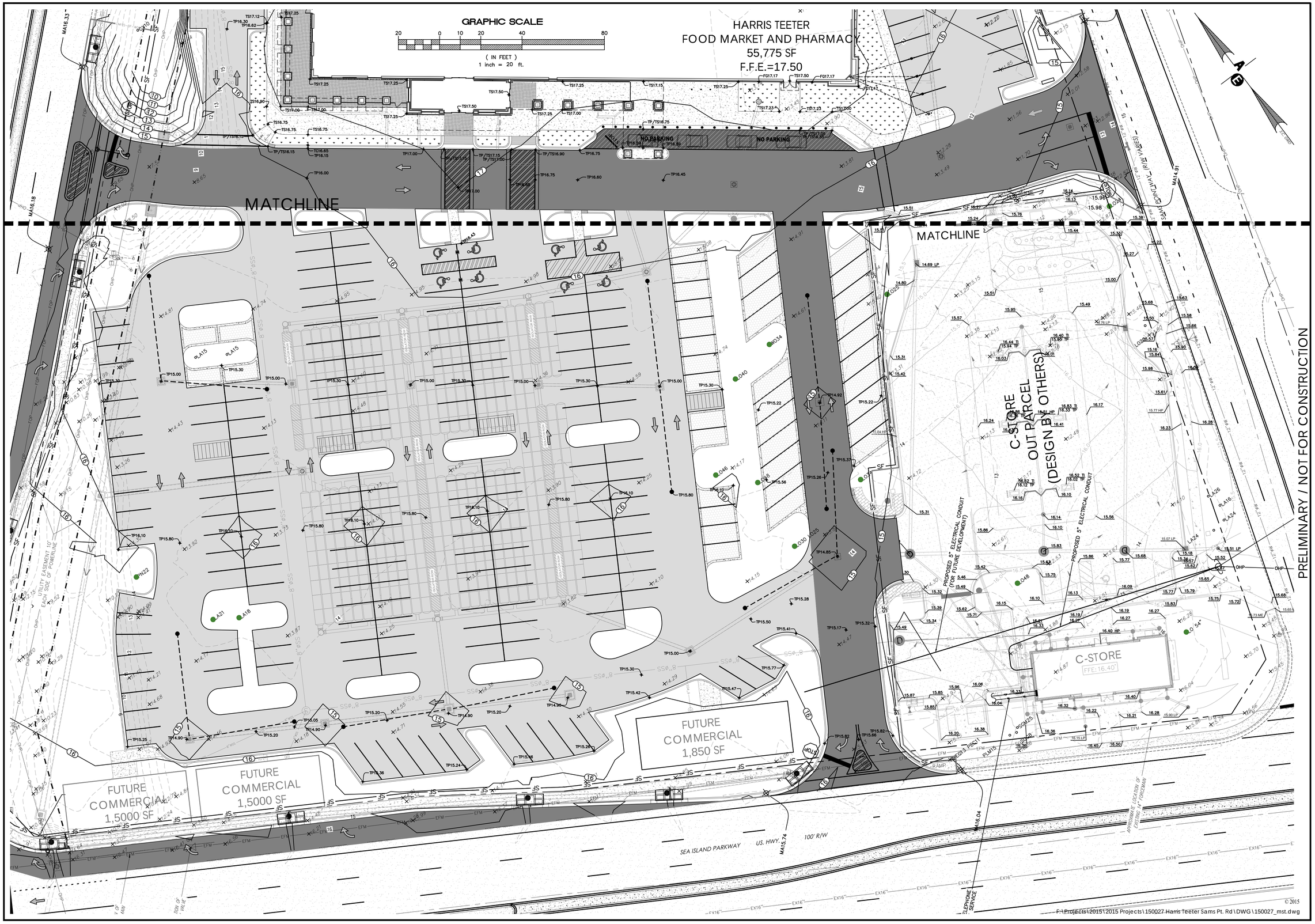
F:\Projects\2015\2015 Projects\150027 Harris Teeter Sams Pt. Rd\DWG\150027_mst.dwg



PLAN REVISIONS

NO.	DESCRIPTION:	DATE:	BY:
1	-	-	-
2	-	-	-
3	-	-	-
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5	-	-	-
6	-	-	-
7	-	-	-
8	-	-	-

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SOUTH CAROLINA PROFESSIONAL ENGINEER NO. 12860 STEVEN WADE ANDREWS

SOUTH CAROLINA ANDREWS ENGINEERING CO. No. C00008 CERTIFICATE OF AUTHORIZATION

Andrews Engineering & Surveying
2712 Bull Street Suite A
Beaufort, SC 29902
843.379.2222
Fax 843.379.2223

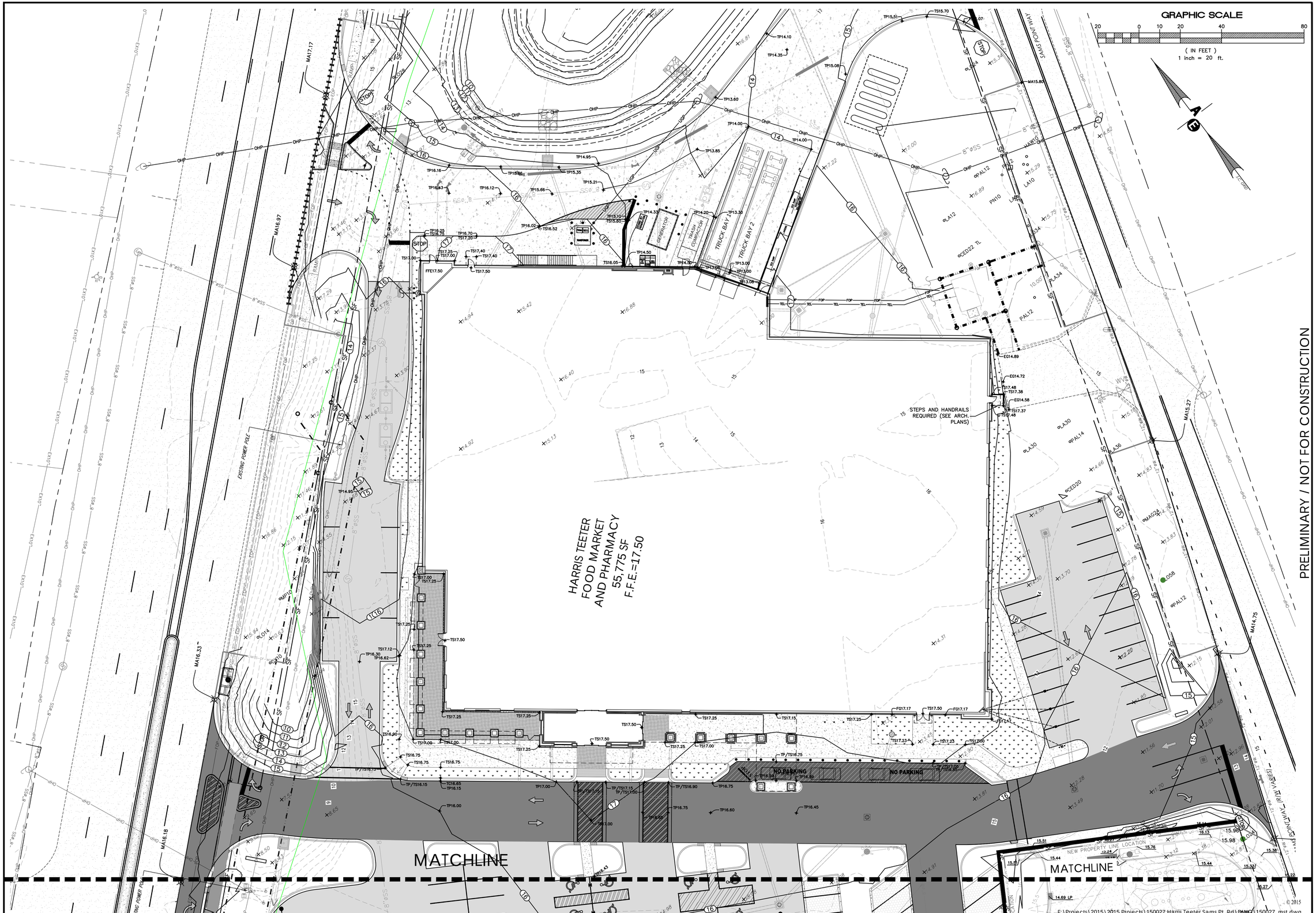
Site Development Plan
For
Harris Teeter
Sam's Point Road
Lady's Island
Beaufort County, SC

Grading Plan
Sheet 1

Date Drawn:	09/09/15
Last Revised:	03/11/21
Drawn By:	R. Crosby
Engineer:	S. Andrews

SHEET #:
18

JOB: 150027



PRELIMINARY / NOT FOR CONSTRUCTION

PLAN REVISIONS

NO.	DESCRIPTION:	DATE:	BY:
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Beaufort, SC 29902
843.379.2222
Fax 843.379.2223

Site Development Plan
For
Harris Teeter
Sam's Point Road
Lady's Island
Beaufort County, SC

Grading Plan
Sheet 2

Date Drawn:	09/09/15
Last Revised:	03/11/21
Drawn By:	R. Crosby
Engineer:	S. Andrews

SHEET #:
19

JOB: 150027

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

DATUM: NGVD29 VERTICAL / NAD83 HORZ.

MATCHLINE

PRELIMINARY / NOT FOR CONSTRUCTION

PLAN REVISIONS

NO.	DESCRIPTION:	DATE:	BY:
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SOUTH CAROLINA — ANDREWS ENGINEERING CO. — No. C00008 — CERTIFICATE OF AUTHORIZATION

Andrews Engineering & Surveying
2712 Bull Street Suite A
Beaufort, SC 29902
843.379.2222
Fax 843.379.2223

Site Development Plan
For
Harris Teeter
Sam's Point Road
Lady's Island
Beaufort County, SC

Grading Plan
Sheet 3

Date Drawn:	09/09/15
Last Revised:	03/11/21
Drawn By:	R. Crosby
Engineer:	S. Andrews

SHEET #: 20

JOB: 150027

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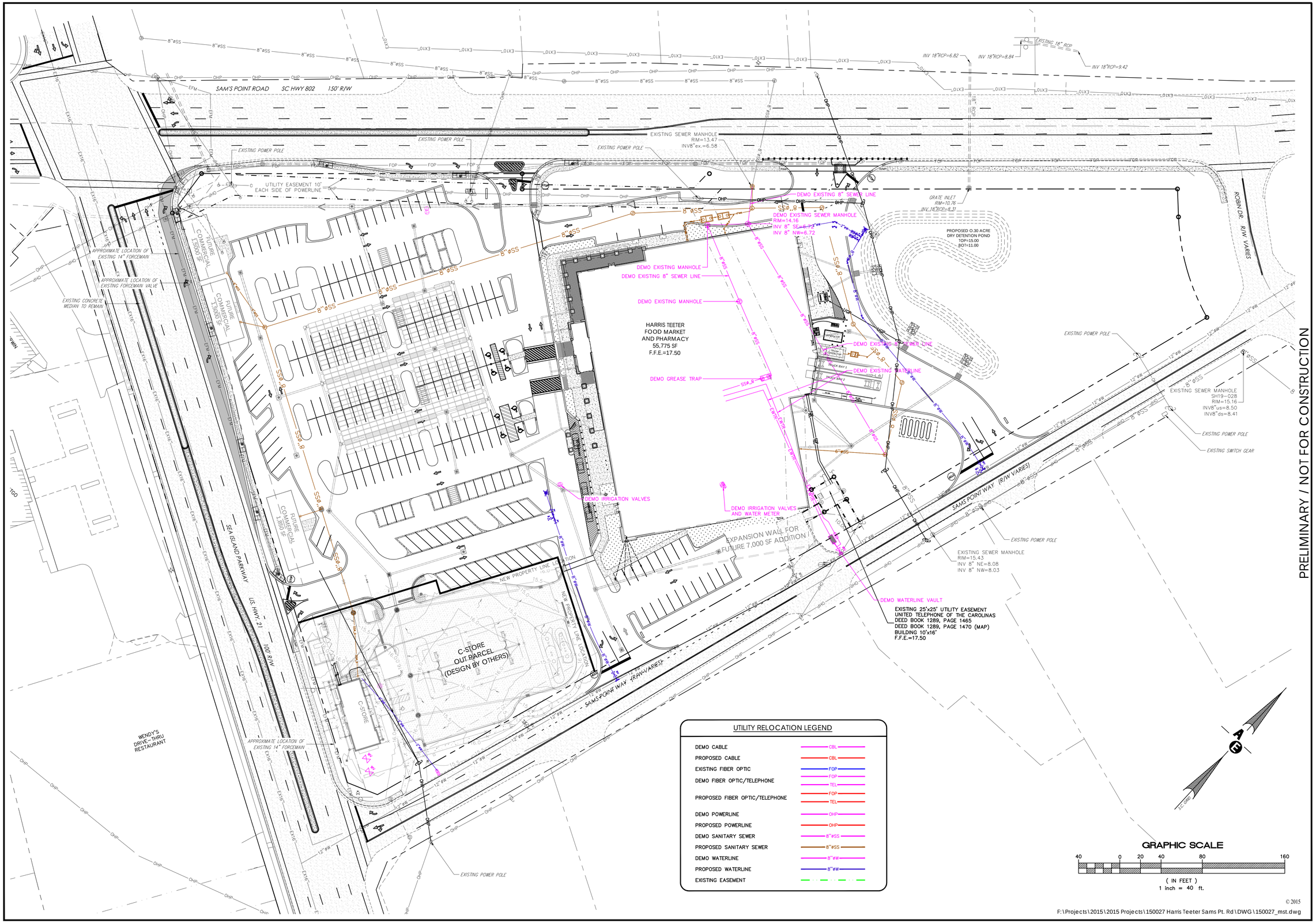

PRELIMINARY / NOT FOR CONSTRUCTION

PLAN REVISIONS

NO.	DESCRIPTION:	DATE:	BY:
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7	-	-	-
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SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 12860 STEVEN WADE ANDREWS

Andrews Engineering & Surveying
2712 Bull Street Suite A
Beaufort, SC 29902
843.379.2222
Fax 843.379.2223

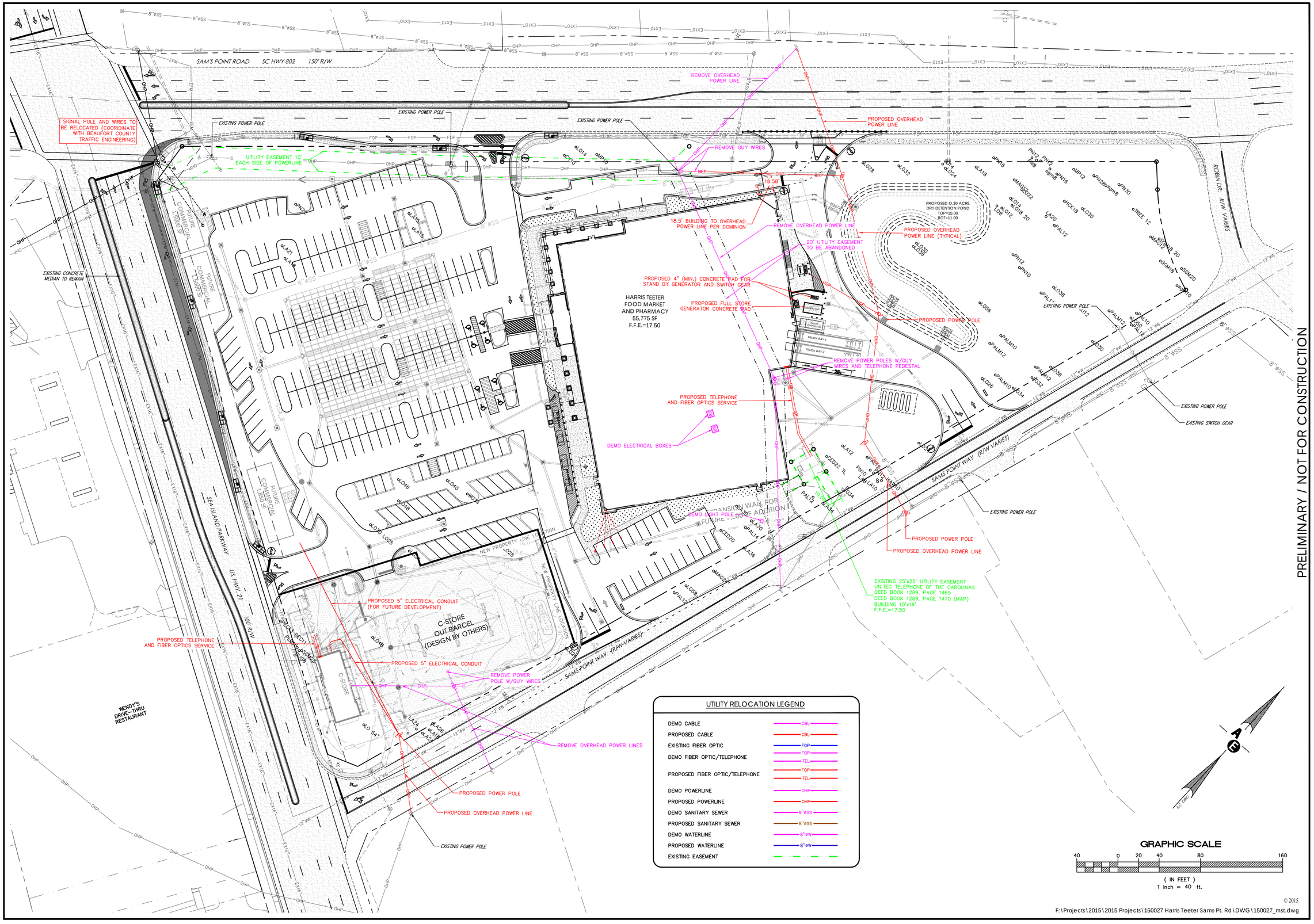
Site Development Plan
For
Harris Teeter
Sam's Point Road
Lady's Island
Beaufort County, SC

BJWSA
Sewer and Water
Relocation Plan

Date Drawn:	09/09/15
Last Revised:	03/11/21
Drawn By:	R. Crosby
Engineer:	S. Andrews

SHEET #:
21

JOB: 150027



PRELIMINARY / NOT FOR CONSTRUCTION

PLAN REVISIONS

NO.	DESCRIPTION:	DATE:	BY:
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4	-	-	-
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Andrews Engineering & Surveying
2712 Bull Street Suite A
Beaufort, SC 29902
843.379.2222
Fax 843.379.2223

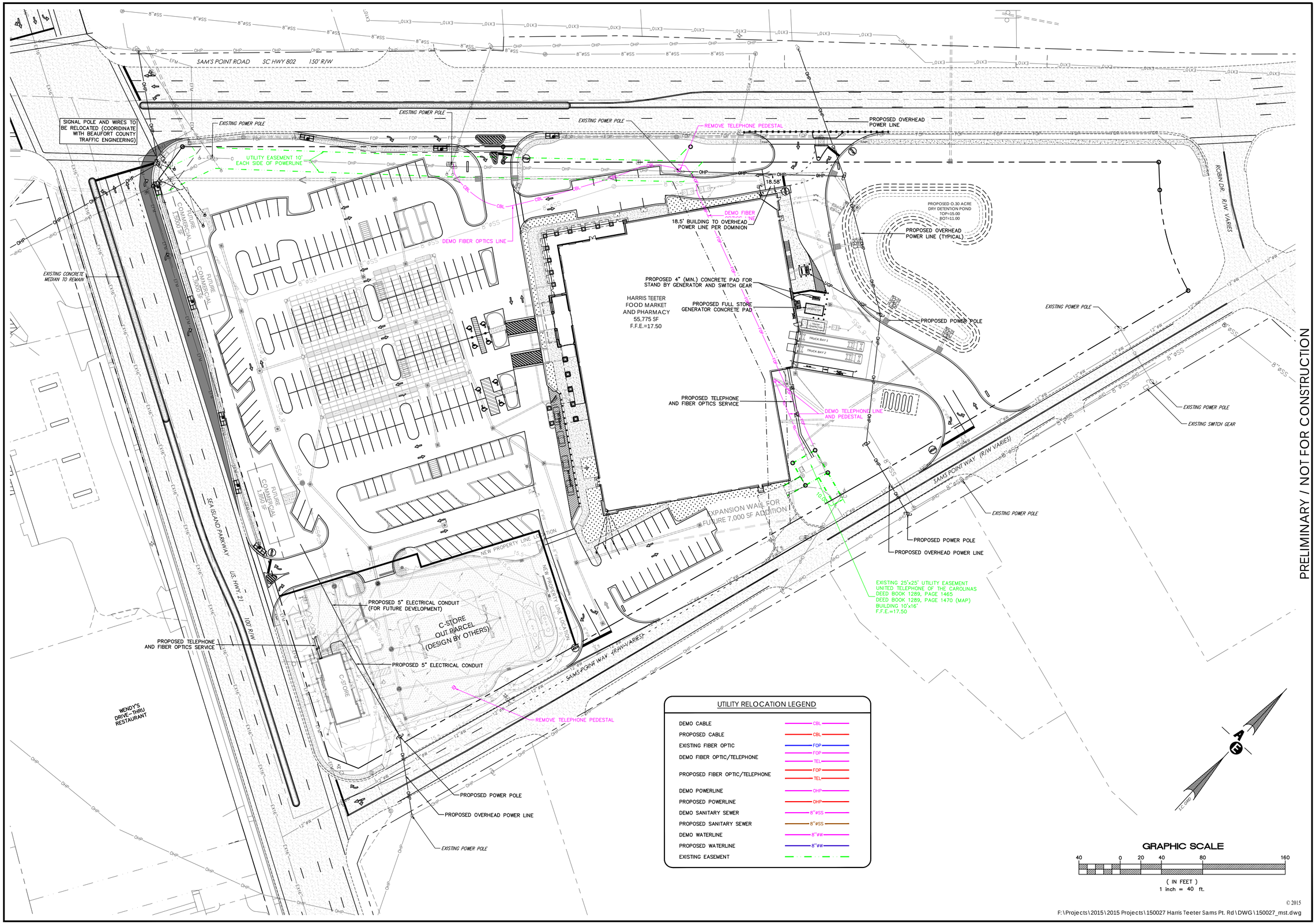
Site Development Plan
For
Harris Teeter
Sam's Point Road
Lady's Island
Beaufort County, SC

Dominion
Utility Relocation
Plan

Date Drawn:	09/09/15
Last Revised:	03/11/21
Drawn By:	R. Crosby
Engineer:	S. Andrews

SHEET #:
22

JOB: 150027



UTILITY RELOCATION LEGEND

DEMO CABLE	CBL
PROPOSED CABLE	CBL
EXISTING FIBER OPTIC	FOP
DEMO FIBER OPTIC/TELEPHONE	FOP / TEL
PROPOSED FIBER OPTIC/TELEPHONE	FOP / TEL
DEMO POWERLINE	OHP
PROPOSED POWERLINE	OHP
DEMO SANITARY SEWER	8"ø SS
PROPOSED SANITARY SEWER	8"ø SS
DEMO WATERLINE	8"ø W
PROPOSED WATERLINE	8"ø W
EXISTING EASEMENT	

PRELIMINARY / NOT FOR CONSTRUCTION

PLAN REVISIONS

NO.	DESCRIPTION:	DATE:	BY:
1	-	-	-
2	-	-	-
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SOUTH CAROLINA ANDREWS ENGINEERING CO. No. C00008 CERTIFICATE OF AUTHORIZATION

Andrews Engineering
2712 Bull Street Suite A
Beaufort, SC 29902
843.379.2222
Fax 843.379.2223
& Surveying

Site Development Plan
For
Harris Teeter
Sam's Point Road
Lady's Island
Beaufort County, SC

Hargray
Utility Relocation
Plan

Date Drawn:	09/09/15
Last Revised:	03/11/21
Drawn By:	R. Crosby
Engineer:	S. Andrews

SHEET #:
23

JOB: 150027

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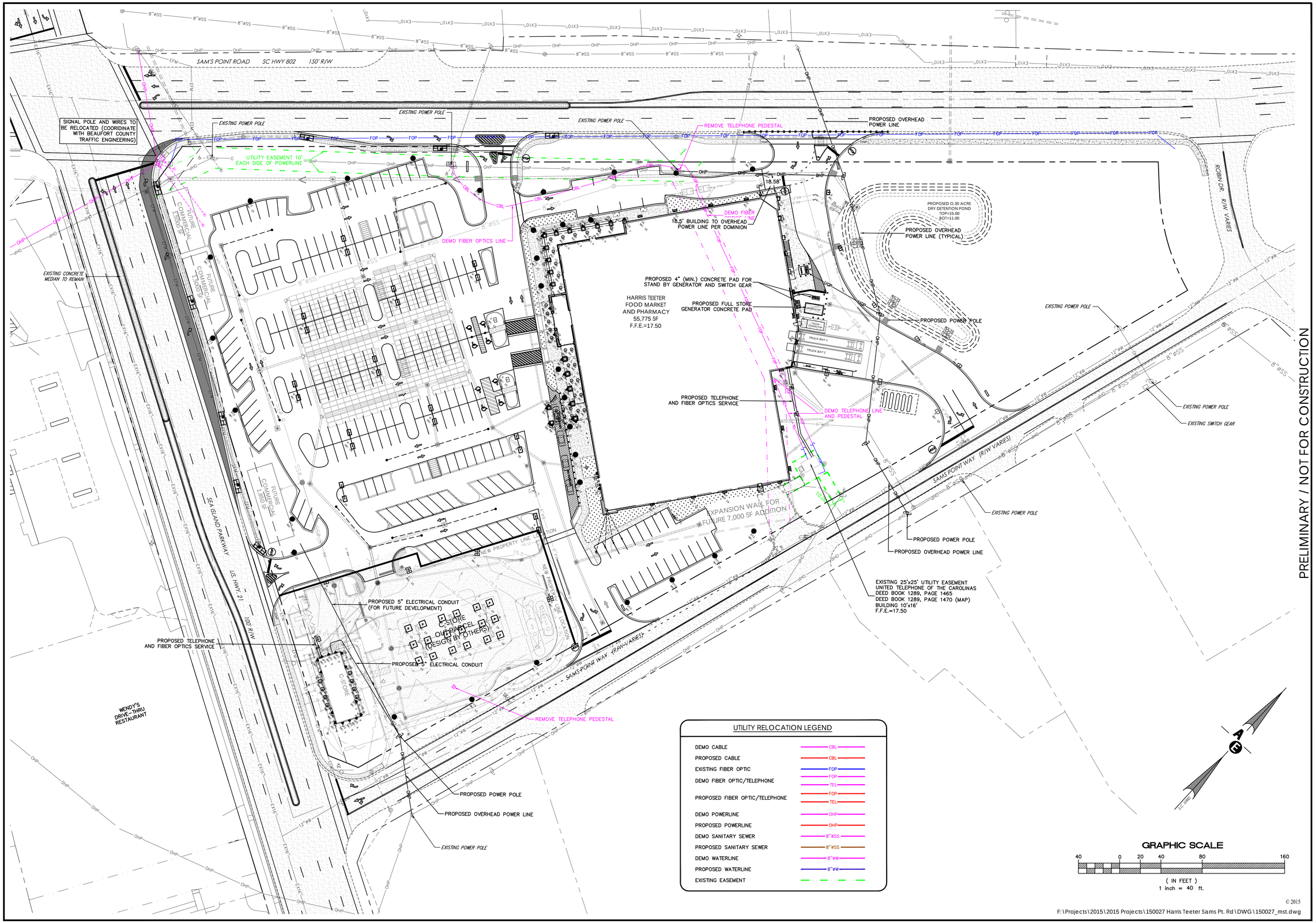

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PLAN REVISIONS

NO.	DESCRIPTION:	DATE:	BY:
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SOUTH CAROLINA PROFESSIONAL ENGINEER NO. 12860 REGISTERED STEVEN WADE ANDREWS

Andrews Engineering & Surveying
2712 Bull Street Suite A
Beaufort, SC 29902
843.379.2222
Fax 843.379.2223

Site Development Plan
For
Harris Teeter
Sam's Point Road
Lady's Island
Beaufort County, SC

CenturyLink
Utility Relocate
Plan

Date Drawn:	09/09/15
Last Revised:	03/11/21
Drawn By:	R. Crosby
Engineer:	S. Andrews

SHEET #:
24

JOB: 150027

To: Meredith Jacobs
Subject: FW: Re: 163 Sea Island Parkway - DRB Completeness Review
Attachments: HT #429 C-Store Dumpster Wall Section - 032221.pdf; HT #429 Gen Wall Section - 032221.pdf; HT Fuel - Dumpster Gate Boards_03-22-21.pdf; HT Fuel - Sample Dumpster Gate.pdf; HT429 ELEVS 1 OF 4_121620.pdf; HT429 PG 3.pdf

---

From: Calvin Sherrill <calvin@bondurant.org>
Sent: Monday, March 22, 2021 12:04 PM
To: Ryan Lyle <ryan@andrews-sc.com>;
Subject: RE: Re: 163 Sea Island Parkway - DRB Completeness Review
Ryan:
Here are our responses:

The C-store

The exterior of the C-store dumpster/generator enclosure will be brick, to match the C-store, Red Velour See one of the attached C-store elevations, previously sent, for materials.
The coping will match the C-store.
Attached is the dumpster enclosure wall section.
The gates will be covered with Trex, cut sheet attached, the color will be selected by the Architect, to compliment the brick. Also attached is a sample gate photo (HT's standard board color, with green coping). The gate posts and frame will be galvanized steel.

The Grocery Store

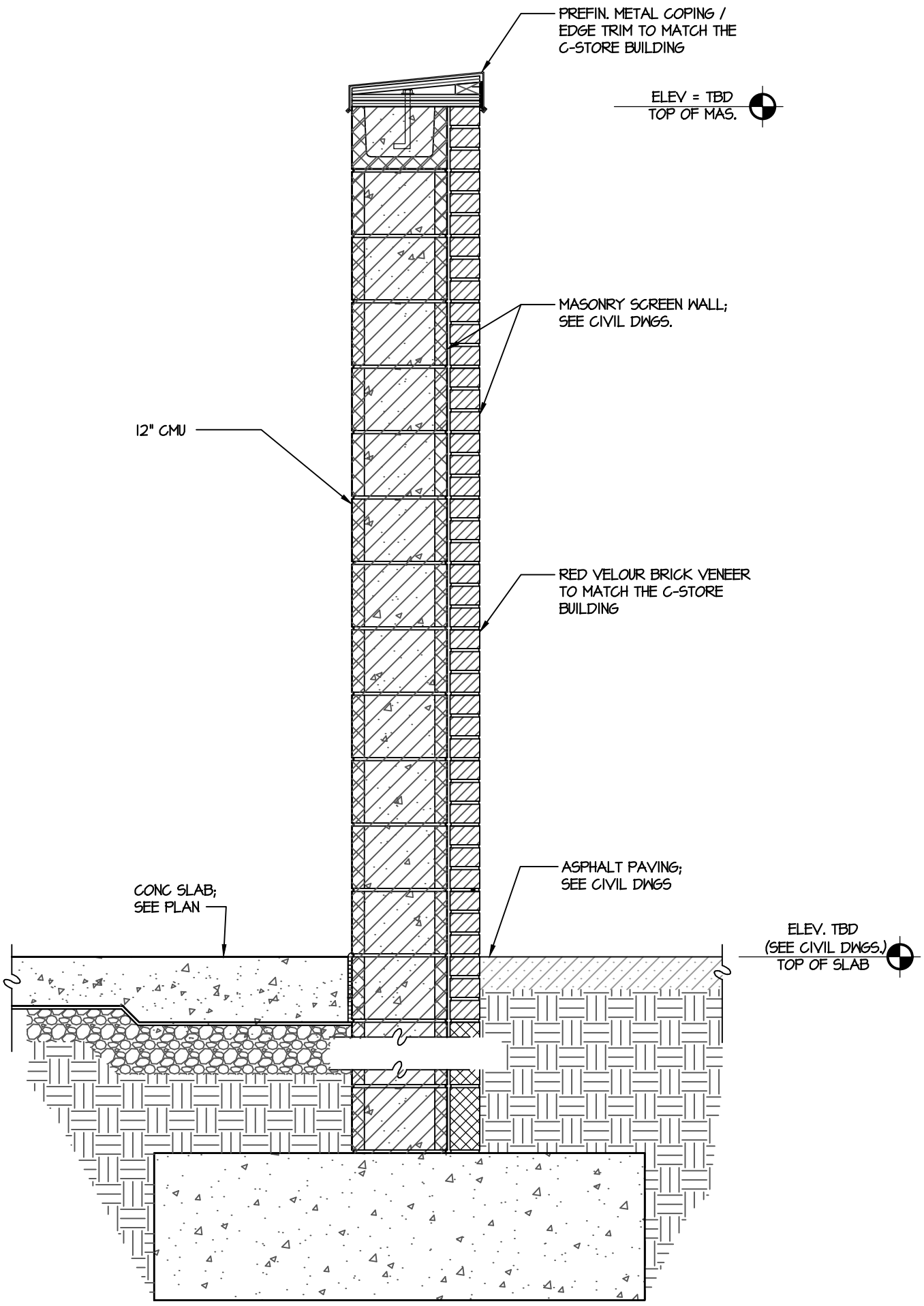
The exterior of the Full store generator enclosure will be brick, to match the main store, Red Velour See one of the attached Store elevations, previously sent, for materials.
The coping will match the store.
Attached is the Generator screen wall section.

Let us know if there are questions,

Thanks,

Calvin E Sherrill, PE

Bondurant Associates
757.713.8093 cell



SECTION AT DUMPSTER SCREEN WALL

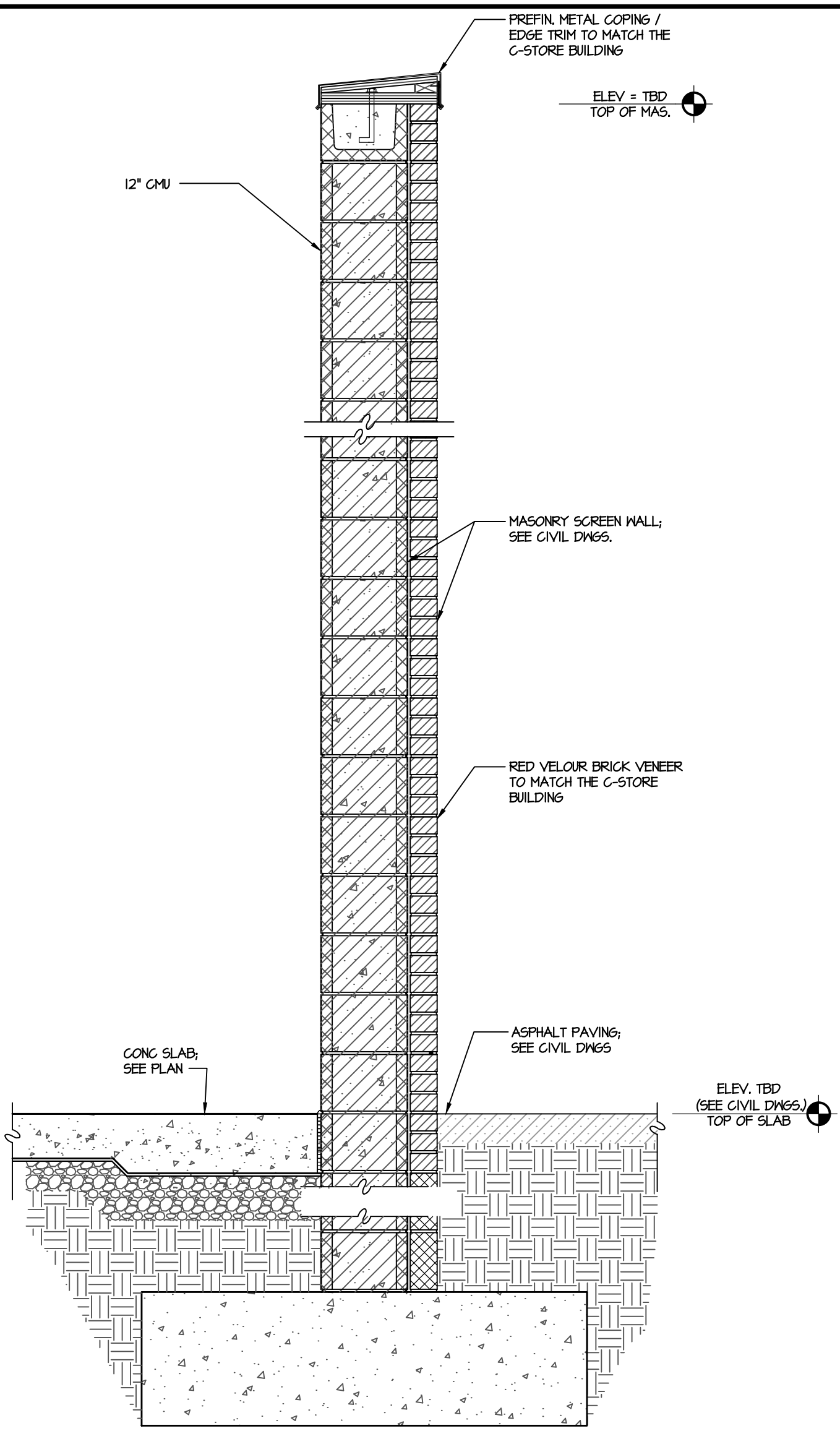
SCALE: 3/4" = 1'-0"

HT Convenience Store

Sam's Point Road
Lady's Island, Beaufort County, South Carolina
March 22, 2021

Harris Teeter
Neighborhood Food & Pharmacy

BONDURANT ASSOCIATES
ENGINEERING & ARCHITECTURE
444 CRAWFORD STREET
SUITE 300
PORTSMOUTH, VIRGINIA



SECTION AT GENERATOR SCREEN WALL

SCALE: 3/4" = 1'-0"

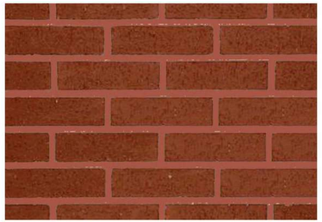
HT Grocery Store

Sam's Point Road
Lady's Island, Beaufort County, South Carolina
March 22, 2021

Harris Teeter
Neighborhood Food & Pharmacy

BONDURANT ASSOCIATES
ENGINEERING & ARCHITECTURE
444 CRAWFORD STREET
SUITE 300
PORTSMOUTH, VIRGINIA

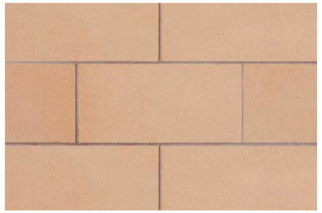
FINISH MATERIALS



BRICK B-1:
RED VELOUR
– MORTAR COLOR FOR BRICK B-1 HAS BEEN CHANGED FROM GREY TO RED



GLAZING G-1:
EVERGREEN TINT



PRECAST STONE VENEER:
CHAMPAGNE - RENAISSANCE
– IN LIEU OF PREVIOUSLY PROPOSED ROCKCAST - CREME BUFF



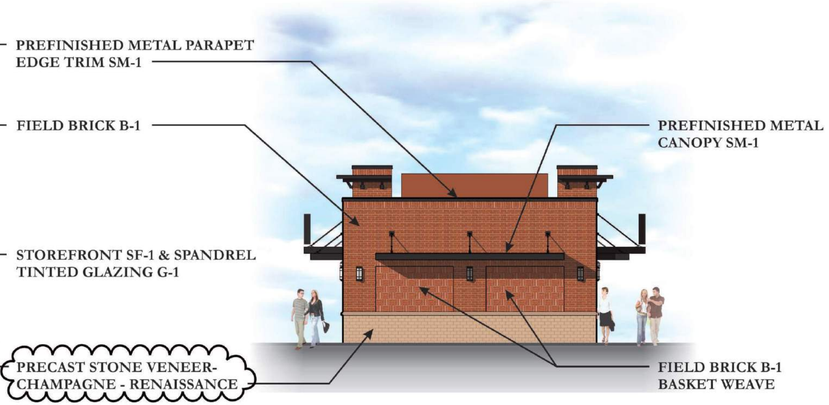
STOREFRONT SF-1:
HARTFORD GREEN



SHEET METAL SM-1:
BLACK



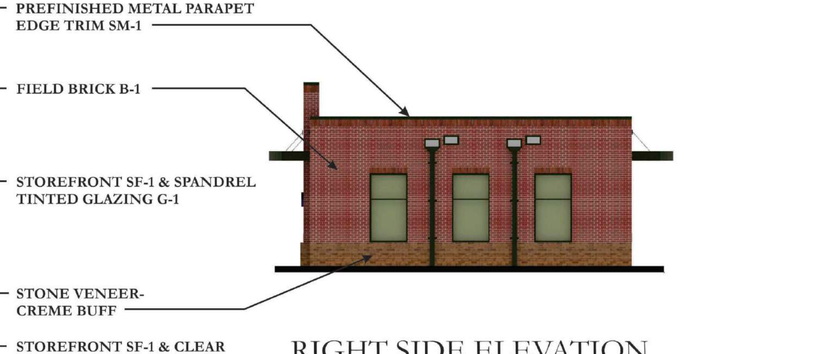
FRONT ELEVATION
(CURRENT PROPOSED)
FACING FUEL ISLAND



RIGHT SIDE ELEVATION
(CURRENT PROPOSED)



FRONT ELEVATION
(PREVIOSLY PROPOSED)
FACING FUEL ISLAND



RIGHT SIDE ELEVATION
(PREVIOUSLY PROPOSED)

Harris Teeter
Neighborhood Food & Pharmacy

Convenience Store

Sam's Point Road

Lady's Island, Beaufort County, South Carolina

BONDURANT ASSOCIATES
ENGINEERING & ARCHITECTURE
PORTSMOUTH, VIRGINIA
12-16-20



OLD REAR ELEVATION



NEW REAR ELEVATION

Legend

- Brick B-1: Red Velour
- Brick B-2: Oatmeal Velour
- Brick B-3: Winestone Velour
- Brick B-4
- Stone Veneer: Champagne - Renaissance
- Storefront SF-1 Hartford Green

Notes:
1. Window specification has not changed. Only the total number is different.
2. Mortar color for brick B-1 has been changed from grey to red.

ARCONS DESIGN STUDIO
architecture · planning · interiors

Harris Teeter #429
Lady's Island, SC

Date: 12.14.20

Harris Teeter
Neighborhood Food & Pharmacy

Harris Teeter Dumpster Gate Boards - color as selected by Architect, to compliment brick veneer

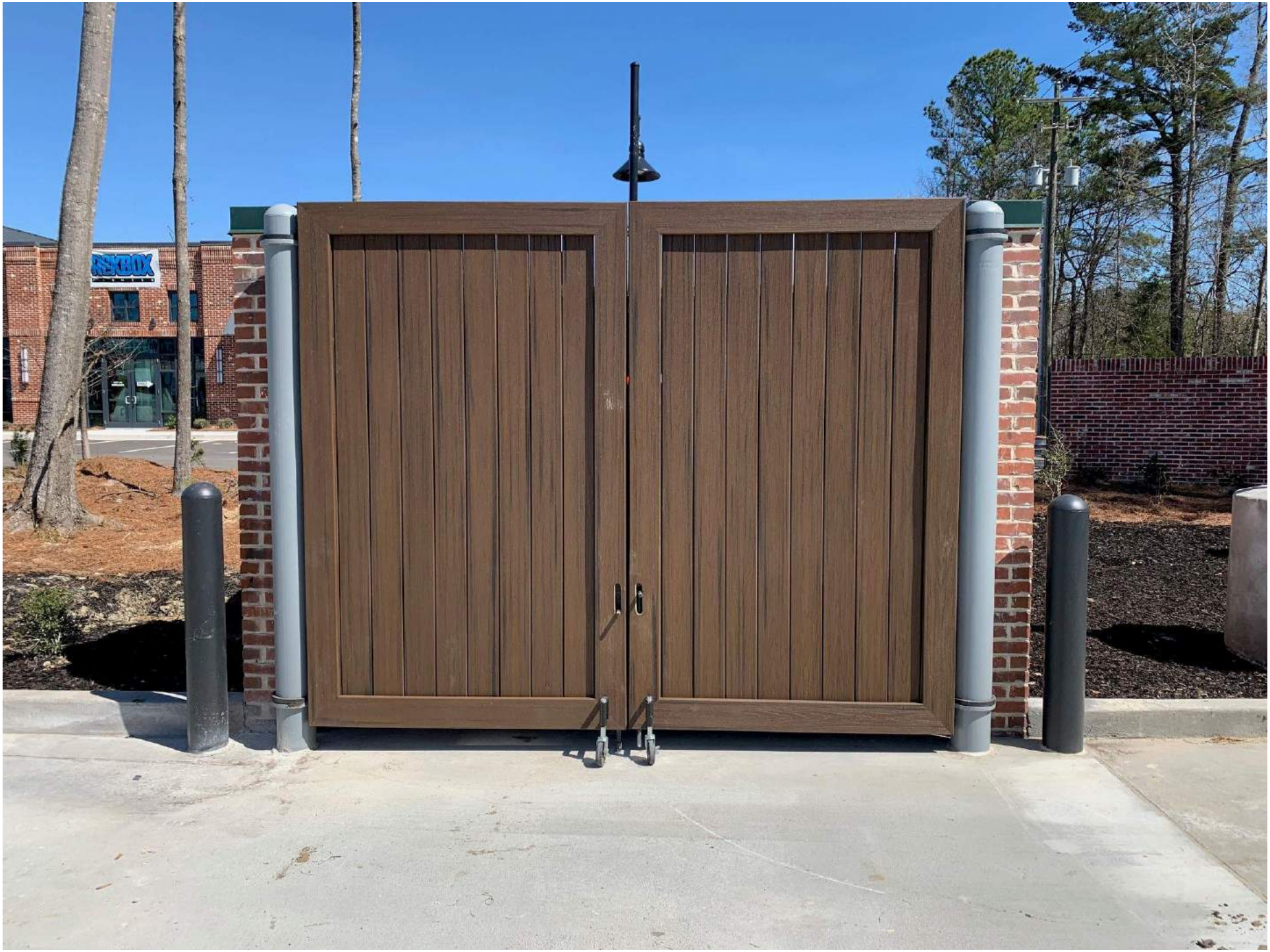
Trex Decking & Fascia

PROFILE	DESCRIPTION		ITEM NUMBER	COLORS
  **1" Square-Edge Board** *Actual dimensions:* Transcend & Enhance: ,94 in x 5.5 in x 12 ft / 16 ft / 20 ft (24 mm x 140 mm x 365 cm / 487 cm / 609 cm) Select: .82 in x 5.5 in x 12 ft / 16 ft / 20 ft (20 mm x 140 mm x 365 cm / 487 cm / 609 cm)	1 x 6 x 12'	Transcend Tropicals	XX010612TS01	IM, TT, HG, SR, LR
	1 x 6 x 16'	Transcend Tropicals	XX010616TS01	
	1 x 6 x 20'	Transcend Tropicals	XX010620TS01	
	1 x 6 x 12'	Transcend Earth Tones	XX010612T2S01	GP, RS, VL
	1 x 6 x 16'	Transcend Earth Tones	XX010616T2S01	
	1 x 6 x 20'	Transcend Earth Tones	XX010620T2S01	
	1 x 6 x 12'	Enhance Basics	XX010612E2S01	CS, BD, SD
	1 x 6 x 16'	Enhance Basics	XX010616E2S01	
	1 x 6 x 20'	Enhance Basics	XX010620E2S01	
	1 x 6 x 12'	Enhance Naturals	XX010612E2S01	FW, RH, TS, CB
	1 x 6 x 16'	Enhance Naturals	XX010616E2S01	
	1 x 6 x 20'	Enhance Naturals	XX010620E2S01	
	7/8 x 6 x 12'	Select	XX010612SS01	PG, WG, SD, WB, MB
	7/8 x 6 x 16'	Select	XX010616SS01	
	7/8 x 6 x 20'	Select	XX010620SS01	
  **1" Grooved-Edge Board** *Actual dimensions:* Transcend & Enhance: .94 in x 5.5 in x 12 ft / 16 ft / 20 ft (24 mm x 140 mm x 365 cm / 487 cm / 609 cm) Select: .82 in x 5.5 in x 12 ft / 16 ft / 20 ft (20 mm x 140 mm x 365 cm / 487 cm / 609 cm)	1 x 6 x 12'	Transcend Tropicals	XX010612TG01	IM, TT, HG, SR, LR
	1 x 6 x 16'	Transcend Tropicals	XX010616TG01	
	1 x 6 x 20'	Transcend Tropicals	XX010620TG01	
	1 x 6 x 12'	Transcend Earth Tones	XX010612T2G01	GP, RS, VL
	1 x 6 x 16'	Transcend Earth Tones	XX010616T2G01	
	1 x 6 x 20'	Transcend Earth Tones	XX010620T2G01	
	1 x 6 x 12'	Enhance Basics	XX010612E2G01	CS, BD, SD
	1 x 6 x 16'	Enhance Basics	XX010616E2G01	
	1 x 6 x 20'	Enhance Basics	XX010620E2G01	
	1 x 6 x 12'	Enhance Naturals	XX010612E2G01	FW, RH, TS, CB
	1 x 6 x 16'	Enhance Naturals	XX010616E2G01	
	1 x 6 x 20'	Enhance Naturals	XX010620E2G01	
	7/8 x 6 x 12'	Select	XX010612SG01	PG, WG, SD, WB, MB
	7/8 x 6 x 16'	Select	XX010616SG01	
	7/8 x 6 x 20'	Select	XX010620SG01	
 **1" x 8" Fascia** *Actual dimensions:* Transcend, Enhance, Select, Universal White: .56 in x 7.25 in x 12 ft (14 mm x 184 mm x 365 cm)	1 x 8 x 12'	Transcend Tropicals	XX010812TS01	IM, TT, HG, SR, LR
	1 x 8 x 12'	Transcend Earth Tones	XX010812T2S01	GP, RS, VL
	1 x 8 x 12'	Enhance Basics	XX010812E2S01	CS, BD, SD
	1 x 8 x 12'	Enhance Naturals	XX010812E2S01	FW, RH, TS, CB
	1 x 8 x 12'	Select	XX010812SS01	PG, WG, SD, WB, MB
	1 x 8 x 12'	Universal White	WW010812ES01	WW
 **1" x 12" Fascia** *Actual dimensions:* Transcend, Enhance, Select, Universal White: .56 in x 11.375 in x 12 ft (14 mm x 288 mm x 365 cm)	1 x 12 x 12'	Transcend Tropicals	XX011212TS01	IM, TT, HG, SR, LR
	1 x 12 x 12'	Transcend Earth Tones	XX011212T2S01	GP, RS, VL
	1 x 12 x 12'	Enhance Basics	XX011212E2S01	CS, BD, SD
	1 x 12 x 12'	Enhance Naturals	XX011212E2S01	FW, RH, TS, CB
	1 x 12 x 12'	Select	XX011212SS01	PG, WG, SD, WB, MB
	1 x 12 x 12'	Universal White	WW011212ES01	WW
 **2" Square-Edge Board** *Actual dimensions:* Transcend 2x4: 1.3 in x 3.4 in x 16 ft (33 mm x 86 mm x 487 cm) Transcend & Select 2x6: 1.3 in x 5.5 in x 12 ft / 16 ft / 20 ft (33 mm x 140 mm x 365 cm / 487 cm / 609 cm)	2 x 4 x 16'	Transcend Tropicals	XX020416TS01	IM, TT, HG, SR, LR
	2 x 6 x 12'	Transcend Tropicals	XX020612TS01	IM, TT, HG, SR, LR
	2 x 6 x 16'	Transcend Tropicals	XX020616TS01	
	2 x 6 x 20'	Transcend Tropicals	XX020620TS01	
	2 x 6 x 12'	Select	XX020612SS01	PG, SD, WB, MB
	2 x 6 x 16'	Select	XX020616SS01	
	2 x 6 x 20'	Select	XX020620SS01	

XX = COLOR PREFIX

IM	Island Mist	GP	Gravel Path	PG	Pebble Grey	FW	Foggy Wharf
TT	Tiki Torch	RS	Rope Swing	WG	Winchester Grey	RH	Rocky Harbor
HG	Havana Gold	VL	Vintage Lantern	SD	Saddle	TS	Toasted Sand
SR	Spiced Rum			WB	Woodland Brown	CB	Coastal Bluff
LR	Lava Rock			MB	Madeira		

CS	Clam Shell		
BD	Beach Dune		
SD	Saddle		
WW	Wood Grain White		



Design Review Board Meeting Staff Report

From the Department of Community and Economic Development
8 April 2021

1 Summary of Request

Harris Teeter Grocery and Convenience Store, PIN R123 015 000 0587 0000, R123 015 000 0592 0000, and R123 015 000 0606 0000, located at the northeast corner of Sams Point Road and Sea Island Parkway.

Applicant: Ryan Lyle / Andrews Engineering & Surveying
The applicant is requesting final approval for change after certification to the Site Plan, Landscape Plan and Lighting Plan associated with the Harris Teeter Grocery and Harris Teeter Fuel Center project.

Background: The Applicant received final approval of the Site Plan including the Harris Teeter Grocery and Harris Teeter Fuel Center in April of 2016, final approval for the Harris Teeter Grocery and Fuel Center Buildings and Liner Buildings portion of this project in August of 2016, and the applicant received final approval for the landscaping and Fuel Center gas station canopy portion of this project in November of 2016. Final Approvals for this project have since been extended until 2021 by the Administrator.

The applicant submitted after certification changes to the site plan and landscaping plan of this project in November 2020 and was granted preliminary approval. The applicant submitted after certification changes to the Harris Teeter building, Fuel Center building and gas station canopy in December 2020 and was granted preliminary approval. This project was granted final approval subject to staff comments for change after certification to the Harris Teeter Building, Fuel Center building and gas canopy on January 14, 2021.

2 Facts

Property Address:	Intersection of Sams Pt. Road and Sea Island Parkway
Parcel ID:	R123 015 000 0587 0000, R123 015 000 0592 0000 & R123 015 000 0606 0000
Case Number:	20-18 DRB.1
Applicant:	**Ryan Lyle**
Zoning:	T5-UC
Use:	Commercial - Retail

District Development Standards for T5-UC:

- **T5 – UC Setback requirements:**
  - *Front-0' min. – 15' max.*
  - *Rear – 5' min.*
  - *Side Corner/Alley – 0' min – 15' max.*
  - *Side Interior – 0'min.*

References:
The Beaufort Code



3 STAFF COMMENTS

Staff Acknowledgements:

- The project's site plan and landscape plan were granted final approval in 2016. The site plan and landscape plan received a change after certification preliminary approval as submitted on November 12, 2020, subject to staff comments. Only preliminary approval staff comments 2, 3, 4, & 8 required revisions to the site plan, landscape plan and lighting plan. The applicant has satisfactorily addressed these comments as follows:

  - Comment 2:
    This comment notes that on the originally approved 2016 site plan, 55% of the parking was screened by the primary Fuel Center building or liner buildings. Staff noted that only 48% of the parking was screened in the change after certification site plan and recommended revising the site plan to maintain the originally approved 55% parking lot screening. Staff recommended in the comment that "if the applicant processed a lot adjustment resulting in the Harris Teeter Fuel Center layout being fully contained within a parcel separate from the Harris Teeter Grocery and liner buildings, both the Harris Teeter Fuel Center and the Harris Teeter Grocery parcels would meet the originally approved screening of 55% of the parking". The applicant addressed this recommendation by proposing a new property line location that better distinguishes the Harris Teeter Fuel Center site plan from the Harris Teeter Grocery Store site plan. The new property line is identified on Sheet CO-1, Harris Teeter Fuel Center Existing Conditions, and results in a 55% screening of the fuel center parking and the grocery store parking.

  - Comment 3:
    This comment requires the applicant to revise the sidewalk at the corner of Sams Point Road and Sea Island Parkway to meet the intent of the previous staff comments and approval letter from November 2016, regarding a minimum planting strip being installed between the road and the sidewalk to provide protection from the street for pedestrians. The applicant has demonstrated that on November 3, 2016 the applicant met with Staff to agree upon specific locations where planting strips can be installed between the road and the sidewalk. Staff and the Applicant agreed upon the locations that are identified on submitted Landscape Sheets L3 and L4, and are located adjacent to the primary entrances from Sams Point Way, Sea Island Parkway and Sams Point Road.

  - Comment 4:
    Staff noted that a revised Tree Removal Plan was submitted reflecting changes that resulted from the site plan modifications to the loading dock configuration and rear drive on the grocery store parcel. However, the tree removal chart included on the plan was not updated, and this comment required the applicant to update the chart. The applicant has updated the chart and highlighted the changes from the approved 2016 Tree Removal Plan. The previously approved plan identified a total of 150 trees to be removed, and the revised plan identifies a total of 154 trees to be removed. Specifically, three less trees 24" or greater are being removed, and seven more trees less than 24" are being removed.

  - Comment 8:
    This comment notes that "the Applicant's cover letter and narrative noted changes to the previously approved Lighting Plan, however no new Lighting Plan was submitted for review

within the deadline requirements of this application. Applicant to submit Lighting Plan in future submission, ensuring that all changes from the previous approval are clearly noted." In the current application the Applicant has submitted a photometric plan that includes proposed locations of exterior lighting, a luminaire schedule and associated cutsheets for the Harris Teeter parking lot and fuel station. The plan meets the maximum lighting height and maximum illuminance level requirements of Section 5.8.4. Additional lighting requirements are included in the staff conditions.

Staff Conditions:

1. The applicant has submitted the staff-approved Arborist Report dated March 31, 2016. This report included an evaluation and recommendation for trees that are to remain in the parking lot and green space areas. The Arborist Report recommendations shall be implemented through all phases of demolition and construction.

2. Section 5.8.4.B of the Beaufort Code states the following: "Light fixtures in excess of 1,800 lumens shall use full cut-off lenses or hoods to prevent glare or spillover from the project site onto adjacent lands and streets. Applicant to ensure and demonstrate compliance with this section. Staff is specifically concerned with the following:
    a. Light Fixtures B, C, and H note that backlight shields will be provided. Applicant to verify if the backlight shield will provide a full cut-off lens for the fixture and ensure compliance with Section 5.8.4.B noted above.
    b. Light Fixtures D, E, I, J, M, and N do not note that any shielding will be provided, and all fixtures are in excess of 1,800 lumens. Applicant to ensure that full cut-off lenses will be provided for these fixtures to comply with Section 5.8.4.B noted above.
    c. Staff is in support of Shades 1-3 for fixtures PT5 and PT3, however, it is unclear whether or not these lights will have full cut-off lenses to comply with Section 5.8.4.B noted above. Applicant to verify this and ensure these fixtures have the required full cutoff lens.
    d. Light Fixture SP4 is in excess of 1800 lumens but does not note that a full cutoff lens will be used. Applicant to ensure a full cutoff lens is provided for this fixture to be compliant with Section 5.8.4.B of the Beaufort Code.

3. Section 5.8.3.B of the Beaufort Code states that "In all districts, lighting shall be directed downward. In addition, upwardly directed lighting shall not be used to illuminate structures, except for low wattage architectural lighting." Lighting fixtures S29, SP2, and SP3 for the Convenience Store showcase the same lighting fixture that was submitted in the building application for this project in January of 2021. The board required that this light be replaced with a downlight fixture per staff comments or changed to a different fixture of which Staff is in favor. This resubmitted fixture does not comply with Section 5.8.3.B of the Beaufort Code. Applicant to submit a different sconce option that directs light downward per the code.

4. Staff is in support of the proposed dumpster and generator screen wall designs. Screen walls for the dumpster and generators are not currently called out on the proposed site plan. Applicant to ensure that all generators and dumpsters are screened from view per the submitted screen wall design.

STAFF RECOMMENDATION:

Final Approval subject to staff conditions noted above.