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SITE DEVELOPMENT PLANS
FOR
LOVEJOY SANITARY SEWER REALIGNMENT
BEAUFORT, SC

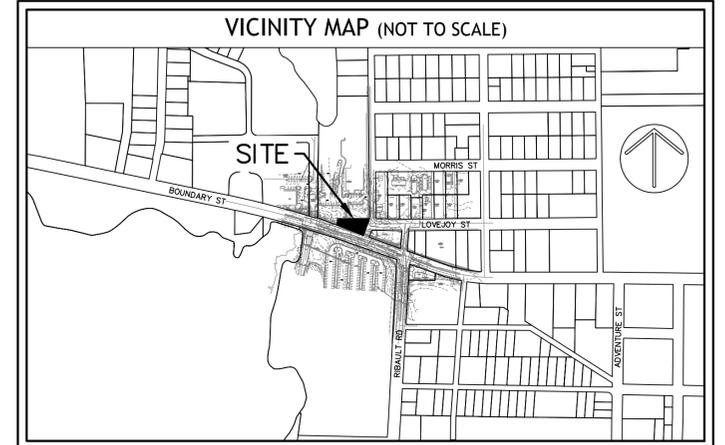
PREPARED FOR
CITY OF BEAUFORT

PROJECT NUMBER 130215H

PREPARED BY



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

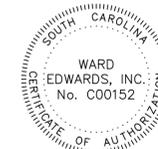


| PROJECT DATA | |
|--|--|
| DEVELOPER: | CITY OF BEAUFORT PUBLIC WORKS 16 BURTON HILL ROAD BEAUFORT, SC 29906 |
| 24 HOUR CONTACT: | LAMAR TAYLOR, OPERATIONS OFFICER |
| TELEPHONE: | (843)-525-7054 |
| FAX: | (843)-525-7095 |
| JURISDICTION: | BEAUFORT, SC |
| TAX MAP #: | R122 001 000 0012 0000 |
| 911 / STREET ADDRESS: | 2015 BOUNDARY STREET SUITE 300 |
| PROPERTY OWNER OF RECORD: | TOWN CENTER INN LLC |
| FEMA FLOOD ZONE: | 11-A & C |
| FEMA FLOOD PANEL: | COMMUNITY NO. 450026, PANEL 0005D, DATED: 09/29/1986 |
| NPDES DISTURBED AREA: | 0.05 ACRES |
| APPROXIMATE LOCATION OF SITE: | INTERSECTION OF RIBAUT ROAD AND BOUNDARY STREET |
| LONGITUDE: | W 80° 41' 11" |
| LATITUDE: | N 32° 26' 26" |
| <input checked="" type="checkbox"/> NOT FOR CONSTRUCTION <input type="checkbox"/> RELEASED FOR CONSTRUCTION | |

| SCHEDULE OF DRAWINGS | |
|----------------------|---|
| SHEET NO. | DESCRIPTION |
| C101 | COVER SHEET (THIS SHEET) |
| C102 | CONSTRUCTION LEGENDS |
| C103 | EXISTING CONDITIONS & DEMOLITION PLAN |
| C104 | UTILITY PLAN |
| C105-6 | CONSTRUCTION DETAILS & SANITARY SEWER PROFILE |
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| RELEASE SCHEDULE | | |
|------------------|------------------------------------|----------|
| RELEASE NO. | DESCRIPTION | DATE |
| A. | RELEASED FOR PERMITTING | 10-03-14 |
| B. | RELEASED FOR BIDDING | 11-11-14 |
| C. | RELEASED FOR BIDDING - REVISIONS | 12-31-14 |
| D. | RELEASED FOR BIDDING - JACK & BORE | 01-16-15 |
| | | |

SCDHEC-OCRM CERTIFICATION:
 "I HAVE PLACED MY SIGNATURE AND SEAL ON THE DESIGN DOCUMENTS SUBMITTED SIGNIFYING THAT I ACCEPT RESPONSIBILITY FOR THE DESIGN OF THE SYSTEM. FURTHER, I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE DESIGN IS CONSISTENT WITH THE REQUIREMENTS OF TITLE 48, CHAPTER 14 OF THE CODE OF LAWS OF SC, 1976 AS AMENDED, PURSUANT TO REGULATION 72-300 ET SEQ. (IF APPLICABLE), AND IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF SCR100000."



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GENERAL NOTES:

- BOUNDARY INFORMATION TAKEN FROM TREE AND TOPO SURVEY PREPARED FOR 303 ASSOCIATES, LLC, CITY OF BEAUFORT, R120-001-000-0012-000, DATED 10-19-1978 REVISED 11-4-2013, BEAUFORT SURVEYING, INC.
- TOPOGRAPHIC DATA PROVIDED BY BEAUFORT SURVEYING, INC., DATED 10-19-1978 REVISED 11-4-2013.
- 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 PALMETTO UTILITY PROTECTION SERVICE AT 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.
- COMPLY WITH SOUTH CAROLINA UNDERGROUND UTILITY DAMAGE PREVENTION ACT (S.C. CODE ANN. 58-35-10, CT-SEQ, SUPP. 1978). NOTIFICATION OF INTENT TO EXCAVATE MAY BE GIVEN BY CALLING THE TOLL FREE NUMBERS 1-800-822-0085.
- 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.
- OFF-STREET PARKING FOR THE CONTRACTOR'S EMPLOYEES AND AUTHORIZED VISITORS TO THE SITE MUST BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION.
- 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.
- AT LEAST ONE DRIVING LANE ON PUBLIC ROADS SHALL REMAIN OPEN TO TRAFFIC AT ALL TIMES. TRAFFIC LANES MAY 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.
- 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:

- ALL WATER AND SEWER LINE CONSTRUCTION SHALL CONFORM TO APPLICABLE STATE AND BEAUFORT JASPER WATER AND SEWER REQUIREMENTS, STANDARDS AND SPECIFICATIONS.
- BUNSA WILL BE RESPONSIBLE FOR INSPECTION AND APPROVAL OF ALL WATER AND SEWER SYSTEM CONSTRUCTION AND FOR ACCEPTANCE FOR OPERATION AND MAINTENANCE.
- 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.
- NOTIFY THE PROJECT ENGINEER, IF CONFLICTS WITH EXISTING STRUCTURES REQUIRE THAT PROPOSED UTILITIES BE RELOCATED.
- THE CONTRACTOR MUST NOTIFY BUNSA FORTY-EIGHT (48) HOURS PRIOR TO ANY CONSTRUCTION, INSPECTION OR TESTING OF THE WATER DISTRIBUTION SYSTEM.
- PIPE, FITTINGS, VALVES AND APPURTENANCES FOR WATER AND SEWER LINES SHALL ALL BE IN ACCORDANCE WITH THE REQUIREMENTS CONTAINED IN THE BEAUFORT-JASPER WATER AND SEWER AUTHORITY TECHNICAL SPECIFICATIONS.
- INSTALLATION OF WATER AND SEWER LINES AND APPURTENANCES SHALL BE IN ACCORDANCE WITH THE WATER AND SEWER AUTHORITY STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS.
- CONTRACTOR SHALL INSTALL MECHANICAL RESTRAINTS ON ALL BENDS, PLUGS AND TEES, 2" OR LARGER, ON WATER LINES AND SANITARY SEWER FORCE MAINS.
- ALL WATER MAINS SHALL BE STERILIZED AND PRESSURE TESTED IN ACCORDANCE WITH BUNSA SPECIFICATIONS.
 - PARALLEL INSTALLATION: UNLESS OTHERWISE SPECIFICALLY SHOWN IN A SPECIAL DETAIL ON THE PLANS, HORIZONTAL SEPARATION OF 18-INCHES BETWEEN 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.
 - 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 18-INCH CLEARANCE 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 BOTH THE WATER AND THE SEWER LINE AT THE CROSSING WITH BOTH PIPES POSITIONED SO THAT THE JOINTS ON EACH 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.
- THE CONTRACTOR SHALL CUT AND PATCH EXISTING PAVEMENT AS REQUIRED FOR THE INSTALLATION OF WATER AND SEWER LINES.
- SANITARY MANHOLE RIM GRADES SHOWN ARE APPROXIMATE. ADJUST RIM ELEVATIONS TO BE FLUSH WITH FINISHED GRADE.
- 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 BEAUFORT-JASPER WATER AND SEWER AUTHORITY. ALL WATER AND SEWER IMPROVEMENTS UNDER THIS CONTRACT MUST BE CONSTRUCTED COMPLETE, TESTED, INSPECTED AND APPROVED BY THE BEAUFORT-JASPER WATER AND SEWER AUTHORITY BEFORE ANY AUTHORIZATION TO CONNECT WILL BE GIVEN. COORDINATION OF TESTING, INSPECTION AND CONNECTIONS WITH THE BEAUFORT-JASPER WATER AND SEWER AUTHORITY IS THE RESPONSIBILITY OF THE CONTRACTOR UNDER THIS CONTRACT.
- 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.

SITE CLEARING AND DEMOLITION:

- 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.
- ONLY THOSE TREES DESIGNATED ON THE DRAWINGS FOR REMOVAL ARE TO BE REMOVED AS PART OF THE SITE CLEARING OPERATIONS.
- 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.
- EXERCISE CAUTION DURING CLEARING OPERATIONS TO AVOID FELLING TREES INTO DESIGNATED TREE PROTECTION ZONES.
- NO BURNING WILL BE ALLOWED WITHIN 50 FEET OF A TREE PROTECTION ZONE OR TREE DRIP LINE.
- SELECTIVE CLEARING AREAS SHALL BE CLEARED OF ALL BRUSH AND UNDERSTORY GROWTH.

TREE PROTECTION-BEAUFORT:

- ALL TREES HAVING A TRUNK DIAMETER OF 8-INCHES (8db) OR LARGER, AND SPECIMEN TREES MUST BE PRESERVED UNLESS SPECIFICALLY APPROVED FOR REMOVAL IN ACCORDANCE WITH THE CITY OF BEAUFORT ZONING AND DEVELOPMENT STANDARDS ORDINANCE AND INDICATED ON THE PLANS TO BE REMOVED.
- 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 7, SECTION 7.1, PAR. D.3 OF THE CITY OF BEAUFORT, SOUTH CAROLINA UNIFORM DEVELOPMENT ORDINANCE.
- A TREE PROTECTION ZONE SHALL BE ESTABLISHED IN ACCORDANCE WITH THE PROVISIONS CONTAINED IN ARTICLE 7, SECTION 7.1, PAR. D.3 OF THE CITY OF BEAUFORT, SOUTH CAROLINA UNIFORM DEVELOPMENT ORDINANCE FOR EACH GROUP OF TREES 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 THE GREATER OF 0-FT. OR ONE-HALF FOOT PER INCH DBH (DIAMETER AT BREAST HEIGHT) THE SIZE OR CONFIGURATION OF THE TREE PROTECTION ZONE MAY BE ADJUSTED AT THE DISCRETION OF THE CITY'S ADMINISTRATOR OF THE ORDINANCE.
 - PLACEMENT OR STORAGE OF ANY SOIL, DEBRIS, OILS, FUEL, PAINTS, BUILDING MATERIALS OR ANY OTHER MATERIALS.
 - BURNING.
 - VEHICLE PARKING.
 - PAVING.
 - TRENCHING FOR UTILITIES.
- WHERE UTILITY LINES MUST PASS THRU THE TREE PROTECTION ZONE, THEY SHALL BE INSTALLED BY HORIZONTAL BORING BENEATH THE ROOTS OF THE TREE.
- WHERE IT IS NECESSARY FOR MACHINERY AND EQUIPMENT TO PASS WITHIN THE TREE PROTECTION ZONE, APPROVAL MUST BE OBTAINED FROM THE DISTRICT ENGINEERING REPRESENTATIVE. SPECIAL MEASURES WILL BE REQUIRED TO PROTECT THE ROOTS FROM EXCESSIVE COMPACTION.
- 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.

SITE GRADING AND DRAINAGE:

- 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.
- TEMPORARY CONTROL OF STORM WATER DRAINAGE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBSTRUCTION OF STORM SEWERS, PONDING IN TRAFFIC AREAS OR RISING OF WATER LEVELS WHICH WOULD ENTER ADJACENT BUILDINGS OR STRUCTURES.
- FULL WIDTH OF STREET AND DRIVE RIGHTS-OF-WAY MUST BE CARED AND GRADED AS SHOWN IN THE DETAILS ON THE DRAWINGS.
- SUBGRADE PREPARATION: TOP SOIL SHALL BE REMOVED FROM PAVED AREAS TO A MINIMUM DEPTH OF 4". ALL EXCAVATION SHALL BE TO SUBGRADE LIMITS.
- ALL UTILITY PIPE LINES, CONDUITS AND SLEEVES UNDER PAVED AREAS MUST BE IN PLACE PRIOR TO COMPLETION OF THE ROADWAY SUBGRADE COMPACTION.
- 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.

SDHC/DCRM SEDIMENT AND EROSION CONTROL STANDARD NOTES (REVISED DEC-2012):

- IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO TOPSOILING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
- 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.
 - WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
 - 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 UNTIL THE PORTION OF THE SITE IS Brought back to its original condition.
- 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, PERMITS MUST BE REVISED AND THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.
- 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 WHEN ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE SEDIMENT BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
- 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. ANY TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
- 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. RESIDENTIAL SUBURBS REQUIRE EROSION CONTROL DEVICES OR 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. 727-300 ET SEQ. AND SCRI0000.
- TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TREATMENT OR STABLE OUTLET.
- 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 SHALT 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.
- 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.
- A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION LOCATION OR A NEARBY LOCATION EASILY ACCESSIBLE TO THE BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
- INITIATE STABILIZATION MEASURES ON ANY OSEEP 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.
- MINIMIZE SOIL COMPACTION AND, UNLESS OTHERWISE SPECIFICALLY SHOWN, 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.
- MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES SHALL BE ROUTED THROUGH APPROPRIATE BMPs (SEDIMENT BASIN, FILTER BAG, ETC.).
- THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
 - WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL.
 - WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS.
 - FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE, AND
 - SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
- AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE PER CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.
- IF EXISTING BMPs NEED TO BE MODIFIED OR IF ADDITIONAL BMPs ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS ORDER, THE CONTRACTOR MUST NOTIFY THE DISTRICT ENGINEERING REPRESENTATIVE. 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.
- A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE COMMENCEMENT 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.

WATER SYSTEM SYMBOLS:

| | | |
|-----------------------------|--|--|
| WATER METER | | |
| WATER VALVE | | |
| REDUCER | | |
| POST INDICATOR VALVE | | |
| FIRE HYDRANT | | |
| BLOWOFF HYDRANT | | |
| YARD HYDRANT | | |
| FIRE DEPART. CONNECT. (FDC) | | |
| CAP | | |
| PLUG | | |

MATERIAL SYMBOLS:

| | | |
|-------------------------------------|--|--|
| PROPOSED DEMOLITION | | |
| PROPOSED SIDEWALK/ CONCRETE | | |
| EXISTING WETLANDS | | |
| PROPOSED AGGREGATE/ STONES | | |
| PROPOSED ASPHALT (STANDARD ASPHALT) | | |
| PROPOSED ASPHALT (HEAVY DUTY) | | |
| PERVIOUS PAVERS | | |

WORK ON SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY:

- COMPLY WITH ALL SPECIAL PROVISIONS CONTAINED IN THE DEPARTMENT OF TRANSPORTATION ENFORCEMENT PERMIT ISSUED FOR THE WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION AND COORDINATION OF ALL WORK ON DOT RIGHTS-OF-WAY WITH THE DISTRICT ENGINEERING REPRESENTATIVE.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A DOT APPROVED TRAFFIC CONTROL PLAN FOR SITE ACCESS AND FOR CONSTRUCTION ON DEPARTMENT OF TRANSPORTATION RIGHTS-OF-WAY. ALL TRAFFIC CONTROL PROVISIONS MUST COMPLY WITH DEPARTMENT OF TRANSPORTATION MINIMUM REQUIREMENTS, LIGHTS, SIGNS, FLAGMEN AND ALL OTHER TRAFFIC CONTROL DEVICES MUST CONFORM TO THE REQUIREMENTS CONTAINED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- PROVIDE ALL REGULATORY SIGNS, PAVEMENT STRIPING AND MARKINGS, AS REQUIRED BY THE SOUTH CAROLINA DOT DISTRICT ENGINEERING INSPECTOR. ALL SIGNS MUST CONFORM TO THE REQUIREMENTS CONTAINED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND TO THE SOUTH CAROLINA DOT STANDARD DETAILS WITH RESPECT TO COLOR, SIZE, REFLECTIVITY, HEIGHT AND PLACEMENT.
- ALL PAVEMENT MARKINGS ON DOT RIGHTS-OF-WAY SHALL BE THERMOPLASTIC (125 MIL THICKNESS) AND MUST COMPLY WITH THE REQUIREMENTS IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. PLACEMENT SHALL BE IN ACCORDANCE WITH SOUTH CAROLINA DOT STANDARD DRAWINGS 603-3 AND 603-4, AS APPLICABLE.
- ALL PAVEMENT MARKINGS TO BE REMOVED MUST BE ERADICATED BY GRINDING.

DRY UTILITY CONDUITS FOR ELECTRIC, TELEPHONE AND CABLE TV:

- ALL DRY UTILITY CONDUIT ENDS SHALL BE CAPPED AND MARKED WITH A STEEL REBAR STAKE IMBEDDED ONE (1) FOOT BELOW GROUND SURFACE.
- 248" MINIMUM DEPTH FOR ALL ELECTRICAL CONDUITS.
- MAINTAIN MINIMUM 12" VERTICAL CLEARANCE WHEN CROSSING WATER, SEWER, AND STORM DRAIN LINES.
- MAINTAIN MINIMUM 18" HORIZONTAL CLEARANCE WHEN PARALLELING WATER, SEWER AND STORM DRAIN LINES.
- EXTEND CONDUIT BEYOND PAVEMENT, CURB, AND SIDEWALKS.
- 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 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.
- LOCATIONS SHOWN ON THE PLANS FOR PROPOSED DRY UTILITY CONDUITS ARE APPROXIMATE ONLY. ALL DIMENSIONING AND STAKING SHOULD BE BASED ON ECONOMIC AND PRACTICAL CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE RESPECTIVE UTILITY REPRESENTATIVES, PRIOR TO ANY CONDUIT INSTALLATION.
- TRANSFORMER PADS SHALL BE LOCATED AS DIRECTED BY THE RESPECTIVE UTILITY REPRESENTATIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE CODE REQUIREMENTS.
- NOTIFY THE ENGINEER IF CONFLICTS WITH EXISTING OR PROPOSED STRUCTURES REQUIRE THAT PROPOSED UTILITIES BE RELOCATED.

SEQUENCE OF CONSTRUCTION ACTIVITIES PROJECT PHASING

ESTIMATED START DATE: 01/2015 ESTIMATED COMPLETION DATE: 02/2015

- ITEMS MUST OCCUR IN THE ORDER LISTED; ITEMS CANNOT OCCUR CONCURRENTLY UNLESS SPECIFICALLY NOTED.
- RECEIVE NPDES COVERAGE FROM DHEC.
 - PRE-CONSTRUCTION MEETING (ON-SITE IF MORE THAN 10 DISTURBED & NON-LINEAR)
 - NOTIFY DHEC EOC REGIONAL OFFICE OR OCRM OFFICE 48 HOURS PRIOR TO BEGINNING LAND-DISTURBING ACTIVITIES.
 - INSTALLATION OF CONSTRUCTION ENTRANCE(S).
 - CLEARING & GRUBBING ONLY AS NECESSARY FOR INSTALLATION OF PERIMETER CONTROLS.
 - INSTALLATION OF PERIMETER CONTROLS (E.G. SILT FENCE).
 - CLEARING & GRUBBING ONLY IN AREAS OF BASINS / TRAPS / PONDS.
 - INSTALLATION OF BASINS / TRAPS / PONDS AND INSTALLATION OF DIVERSIONS TO THOSE STRUCTURES (OUTLET STRUCTURES MUST BE COMPLETELY INSTALLED AS SHOWN ON THE DETAILS BEFORE PROCEEDING TO NEXT STEP; AREAS DRAINING TO THESE STRUCTURES CANNOT BE DISTURBED UNTIL THE STRUCTURES & DIVERSIONS TO THE STRUCTURES ARE COMPLETELY INSTALLED).
 - CLEARING & GRUBBING OF SITE OR DEMOLITION (SEDIMENT & EROSION CONTROL MEASURES FOR THESE AREAS MUST ALREADY BE INSTALLED).
 - ROUGH GRADING.
 - INSTALLATION OF STORM DRAIN SYSTEM AND PLACEMENT OF INLET PROTECTION AS EACH INLET IS INSTALLED.
 - FINE GRADING, PAVING, ETC.
 - PERMANENT / FINAL STABILIZATION.
 - CLEAN-OUT OF DETENTION BASINS THAT WERE USED AS SEDIMENT CONTROL STRUCTURES AND RE-GRADING OF DETENTION POND BOTTOMS; IF NECESSARY, MODIFICATION OF SEDIMENT BASIN RISER TO CONVERT TO DETENTION BASIN OUTLET STRUCTURE.
 - REMOVAL OF TEMPORARY SEDIMENT & EROSION CONTROL MEASURES AFTER ENTER AREA DRAINING TO THE STRUCTURE IS FINALLY STABILIZED (THE DEPARTMENT RECOMMENDS THAT THE PROJECT OWNER / OPERATOR HAVE THE SWPPP PREPARED OR REGISTRATION EQUIVALENT APPROVE THE REMOVAL OF TEMPORARY STRUCTURES).
 - PERFORM AS-BUILT SURVEYS OF ALL DETENTION STRUCTURES AND SUBMIT TO DHEC OR MS4 FOR ACCEPTANCE.
 - SUBMIT NOTICE OF TERMINATION (NOT) TO DHEC AS APPROPRIATE.

- NOTE: IF FLOWS FROM OFFSITE AREAS WILL BE DIVERTED AROUND THE SITE AND THE ON-SITE STRUCTURES ARE NOT DESIGNED TO HANDLE FLOWS FROM THE OFFSITE AREAS, THEN THE DIVERSIONS / PIPING FOR THE OFFSITE FLOWS MUST BE INSTALLED BEFORE LAND-DISTURBING ACTIVITIES BEGON ON THE SITE; INCLUDING THE SEQUENCE, SEDIMENT AND EROSION CONTROL MEASURES FOR THE DISTURBED AREAS FOR THE DIVERSION / PIPING MUST BE INSTALLED BEFORE THOSE AREAS ARE DISTURBED AND SHOULD BE SHOWN ON THE PLANS.
- NOTE: IF AN EXISTING DETENTION / SEDIMENT BASIN IS BEING MODIFIED TO HANDLE THE FLOWS FROM THE PROPOSED STRUCTURES, THEN THE MODIFICATION OF THE BASIN MUST BE COMPLETED BEFORE LAND-DISTURBING ACTIVITIES BEGON ON THE SITE. THIS SHOULD BE INCLUDED IN THE SEQUENCE.
- NOTE: INCLUDE INDIVIDUAL LOT DEVELOPMENT / CONSTRUCTION IN THE SEQUENCE IF THE SITE WILL NOT BE MASS-GRADED. NOTE: IF AN EXISTING DETENTION / SEDIMENT BASIN IS BEING MODIFIED TO HANDLE THE FLOWS FROM THE PROPOSED STRUCTURES, THEN THE MODIFICATION OF THE BASIN MUST BE COMPLETED BEFORE LAND-DISTURBING ACTIVITIES BEGON ON THE SITE. THIS SHOULD BE INCLUDED IN THE SEQUENCE.
- NOTE: MAINTENANCE OF SEDIMENT AND EROSION CONTROL MEASURES MUST CONTINUE UNTIL THE SITE IS PERMANENTLY STABILIZED AND THE CONTROLS ARE REMOVED.
- *B/E SURE TO NUMBER AND LIST ALL ITEMS IN NUMERICAL ORDER FOR YOUR CONSTRUCTION SEQUENCE.

LEGEND

| DESCRIPTION | EXISTING | PROPOSED |
|-------------|----------|----------|
|-------------|----------|----------|

LINE TYPES:

| | | |
|---------------------------|--|--|
| CENTERLINE | | |
| CONTOUR LINE | | |
| CURB & GUTTER (standard) | | |
| CURB & GUTTER (roll curb) | | |
| DRAIN LINE | | |
| EASEMENT | | |
| FORCE MAIN | | |
| PAVEMENT | | |
| PROPERTY LINE | | |
| SEWER LINE | | |
| WATER LINE | | |

TYPICAL SYMBOLS:

| | | |
|--------------------|--|--|
| TREE | | |
| TREE TO BE REMOVED | | |
| TREE PROTECTION | | |
| SPOT ELEVATION | | |
| TOP OF PAVING | | |
| TOP OF CURB | | |
| TOP OF WALK | | |
| DIRECTION OF FLOW | | |

STRUCTURE SYMBOLS:

| | | |
|--------------------------|--|--|
| WEIR INLET | | |
| CATCH BASIN | | |
| CURB INLET | | |
| CURB INLET (WITH GRATE) | | |
| STORM DRAIN JUNCTION BOX | | |
| STORM DRAIN MANHOLE | | |
| STORM GRATE INLET | | |
| SANITARY SEWER MANHOLE | | |
| SANITARY SEWER CLEANOUT | | |
| SANITARY SEWER WYE | | |

WATER SYSTEM SYMBOLS:

| | | |
|-----------------------------|--|--|
| WATER METER | | |
| WATER VALVE | | |
| REDUCER | | |
| POST INDICATOR VALVE | | |
| FIRE HYDRANT | | |
| BLOWOFF HYDRANT | | |
| YARD HYDRANT | | |
| FIRE DEPART. CONNECT. (FDC) | | |
| CAP | | |
| PLUG | | |

MATERIAL SYMBOLS:

| | | |
|-------------------------------------|--|--|
| PROPOSED DEMOLITION | | |
| PROPOSED SIDEWALK/ CONCRETE | | |
| EXISTING WETLANDS | | |
| PROPOSED AGGREGATE/ STONES | | |
| PROPOSED ASPHALT (STANDARD ASPHALT) | | |
| PROPOSED ASPHALT (HEAVY DUTY) | | |
| PERVIOUS PAVERS | | |

EROSION & SEDIMENT CONTROL LEGEND

| DESCRIPTION | SYMBOL |
|-------------|--------|
|-------------|--------|

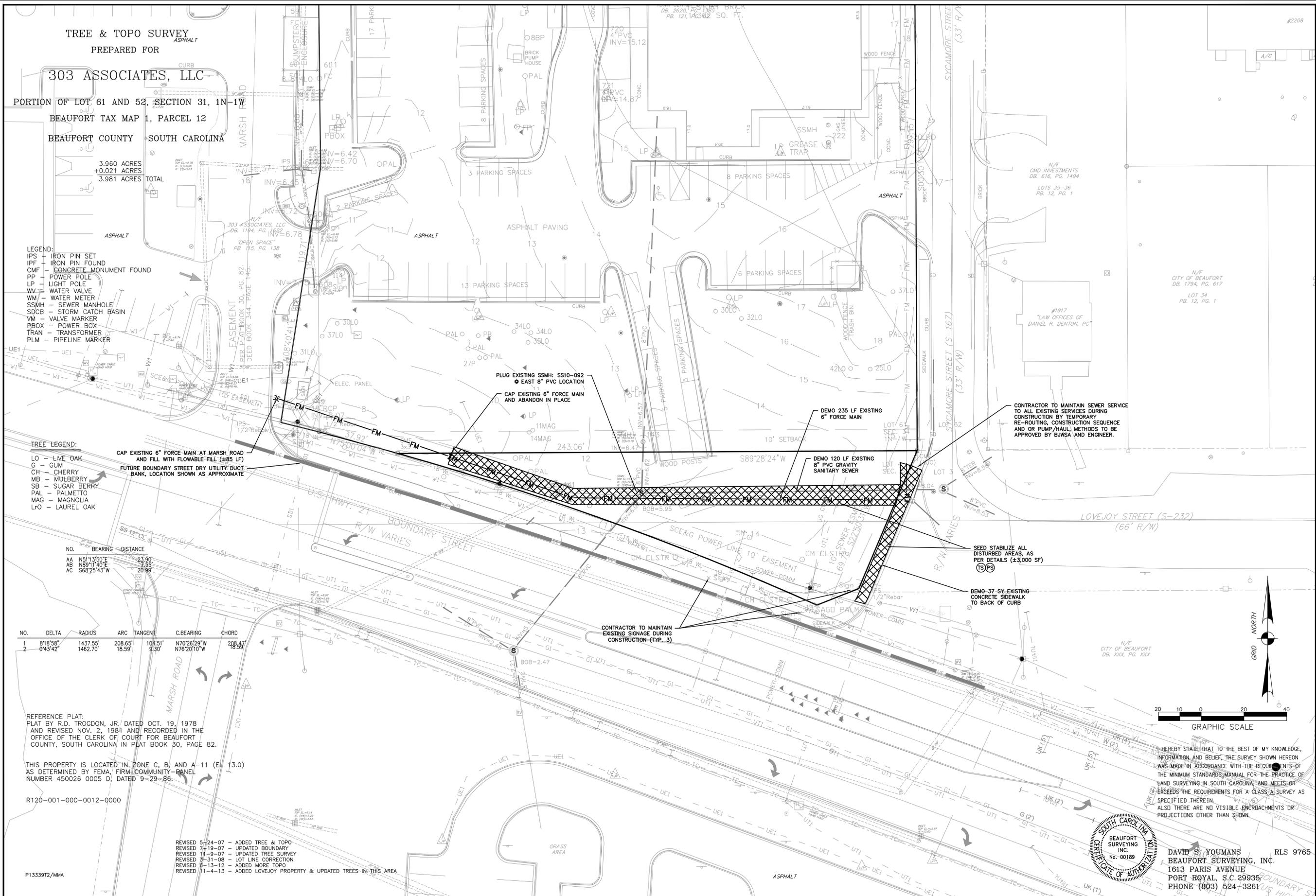
EROSION PREVENTION

| | | |
|-----------------------|--|--|
| LAND GRADING: | | |
| SURFACE ROUGHENING: | | |
| TOPSOILING: | | |
| DITCH CENTERLINE: | | |
| TEMPORARY SEEDING: | | |
| MULCHING: | | |
| ECB OR TRM: | | |
| FGM: | | |
| BFM: | | |
| PERMANENT SEEDING: | | |
| SODDING: | | |
| RIPRAP: | | |
| OUTLET PROTECTION: | | |
| DUST CONTROL: | | |
| POLYACRYLAMIDE (PAM): | | |

SEDIMENT CONTROL

| | | |
|---|--|--|
| SEDIMENT BASIN: | | |
| TEMPORARY SEDIMENT TRAP: | | |
| ROCK SEDIMENT DIKE: | | |
| ROCK CHECK DAM: | | |
| SEDIMENT TUBE: | | |
| SILT FENCE: | | |
| REINFORCED SILT FENCE: | | |
| TYPE A-FABRIC INLET PROTECTION: | | |
| TYPE A-SEDIMENT TUBE INLET PROTECTION: | | |
| TYPE B - WIRE MESH AND STONE DROP INLET PROTECTION: | | |
| TYPE C - BLOCK AND GRAVEL INLET PROTECTION: | | |
| TYPE D - RIGID INLET FILTERS: | | |
| TYPE E - SURFACE COURSE CURB INLET FILTER: | | |
| TYPE F - INLET | | |

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TREE & TOPO SURVEY
 PREPARED FOR
303 ASSOCIATES, LLC
 PORTION OF LOT 61 AND 52, SECTION 31, 1N-1W
 BEAUFORT TAX MAP 1, PARCEL 12
 BEAUFORT COUNTY SOUTH CAROLINA

3.960 ACRES
 +0.021 ACRES
 TOTAL
 3.981 ACRES

- LEGEND:
- IPS - IRON PIN SET
 - IPF - IRON PIN FOUND
 - CMF - CONCRETE MONUMENT FOUND
 - PP - POWER POLE
 - LP - LIGHT POLE
 - WV - WATER VALVE
 - WM - WATER METER
 - SSMH - SEWER MANHOLE
 - SDCB - STORM CATCH BASIN
 - VM - VALVE MARKER
 - PBOX - POWER BOX
 - TRAN - TRANSFORMER
 - PLM - PIPELINE MARKER

- TREE LEGEND:
- LO - LIVE OAK
 - G - GUM
 - CH - CHERRY
 - MB - MULBERRY
 - SB - SUGAR BERRY
 - PAL - PALMETTO
 - MAG - MAGNOLIA
 - LRO - LAUREL OAK

CAP EXISTING 6" FORCE MAIN AT MARSH ROAD AND FILL WITH FLOWABLE FILL (#85 LF)
 FUTURE BOUNDARY STREET DRY UTILITY DUCT BANK, LOCATION SHOWN AS APPROXIMATE

PLUG EXISTING SSMH: SS10-092
 EAST 8" PVC LOCATION

CAP EXISTING 6" FORCE MAIN AND ABANDON IN PLACE

DEMO 235 LF EXISTING 6" FORCE MAIN

DEMO 120 LF EXISTING 8" PVC GRAVITY SANITARY SEWER

CONTRACTOR TO MAINTAIN SEWER SERVICE TO ALL EXISTING SERVICES DURING CONSTRUCTION BY TEMPORARY RE-ROUTING, CONSTRUCTION SEQUENCE AND OR PUMP/HAUL, METHODS TO BE APPROVED BY BWSA AND ENGINEER.

SEED STABILIZE ALL DISTURBED AREAS, AS PER DETAILS (#3,000 SF) (TS/PS)

DEMO 37 SY EXISTING CONCRETE SIDEWALK TO BACK OF CURB

CONTRACTOR TO MAINTAIN EXISTING SIGNAGE DURING CONSTRUCTION (TYP. 3)

| NO. | BEARING | DISTANCE |
|-----|-------------|----------|
| AA | N51°13'50"E | 23.90' |
| AB | N89°11'40"E | 23.55' |
| AC | S68°25'43"W | 20.99' |

| NO. | DELTA | RADIUS | ARC TANGENT | C.BEARING | CHORD |
|-----|----------|----------|-------------|-----------|------------------------|
| 1 | 8°18'58" | 1437.55' | 208.65' | 104.51' | N70°26'29"W 208.57' |
| 2 | 0°43'42" | 1462.70' | 18.59' | 9.30' | N76°20'10"W 18.53' |

REFERENCE PLAT:
 PLAT BY R.D. TROGDON, JR. DATED OCT. 19, 1978 AND REVISED NOV. 2, 1981 AND RECORDED IN THE OFFICE OF THE CLERK OF COURT FOR BEAUFORT COUNTY, SOUTH CAROLINA IN PLAT BOOK 30, PAGE 82.

THIS PROPERTY IS LOCATED IN ZONE C, B, AND A-11 (EL 13.0) AS DETERMINED BY FEMA, FIRM COMMUNITY-PANEL NUMBER 450026 0005 D, DATED 9-29-86.

R120-001-000-0012-0000

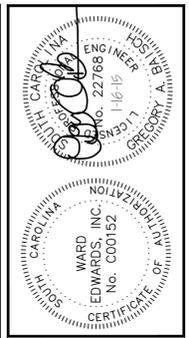
- REVISED 5-24-07 - ADDED TREE & TOPO
 REVISED 7-19-07 - UPDATED BOUNDARY
 REVISED 11-9-07 - UPDATED TREE SURVEY
 REVISED 3-31-08 - LOT LINE CORRECTION
 REVISED 6-13-12 - ADDED MORE TOPO
 REVISED 11-4-13 - ADDED LOVEJOY PROPERTY & UPDATED TREES IN THIS AREA

P1333972/MMA



I HEREBY STATE THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THE SURVEY SHOWN HEREON WAS MADE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MINIMUM STANDARDS MANUAL FOR THE PRACTICE OF LAND SURVEYING IN SOUTH CAROLINA, AND MEETS OR EXCEEDS THE REQUIREMENTS FOR A CLASS A SURVEY AS SPECIFIED THEREIN. ALSO THERE ARE NO VISIBLE ENCROACHMENTS OR PROJECTIONS OTHER THAN SHOWN.

DAVID S. YOUMANS RLS 9765
 BEAUFORT SURVEYING, INC.
 1613 PARIS AVENUE
 PORT ROYAL, S.C. 29935
 PHONE (803) 524-3261



| NO. | DESCRIPTION | DATE | PLAN REVISIONS |
|-----|--|----------|----------------|
| 7 | | | |
| 6 | | | |
| 5 | | | |
| 4 | | | |
| 3 | MOVED PRO. SAN. SEWER - JACK & BORE BOUNDARY | 01/16/15 | |
| 2 | MOVED PRO. SAN. SEWER TO CENTER OF EASEMENT | 12/31/14 | |
| 1 | | | |

Ward Edwards
 ENGINEERING
 P.O. BOX 381, BLUEFORD, SOUTH CAROLINA 29910
 PH: (803) 837-5555 FAX: (803) 837-2536
 WWW.WARDEDWARDS.COM

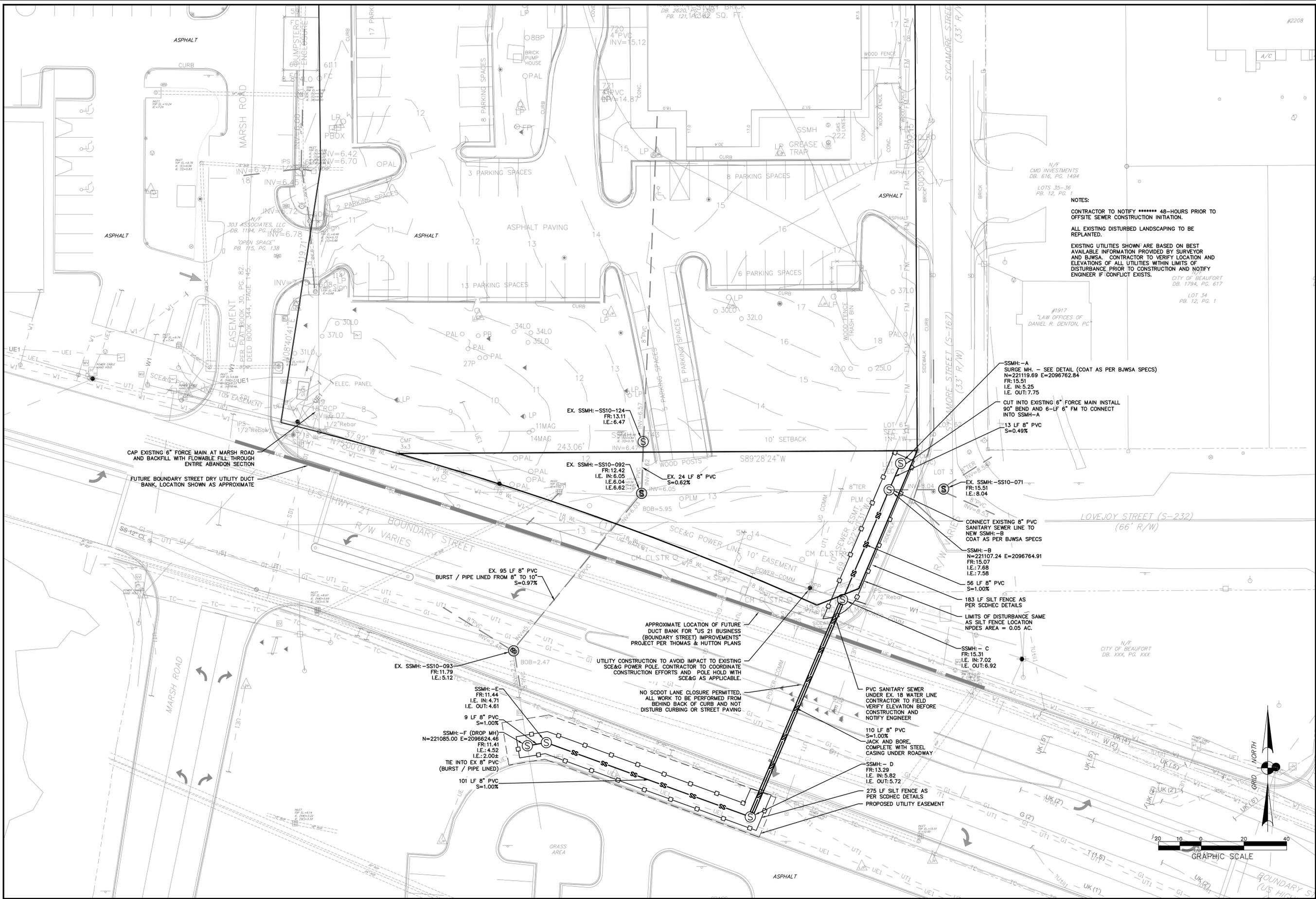
LOVEJOY SANITARY SEWER REALIGNMENT
 BEAUFORT COUNTY, SOUTH CAROLINA
 CITY OF BEAUFORT PUBLIC WORKS
 BEAUFORT, SOUTH CAROLINA
EXISTING CONDITIONS & DEMOLITION PLAN

NOT FOR CONSTRUCTION
 RELEASED FOR CONSTRUCTION

PROJECT #: 130215H
 DATE: 1/16/15
 DESIGNED BY: RB
 CHECKED BY: GAB
 SCALE: 1"=20'

SHEET
C103

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NOTES:
 CONTRACTOR TO NOTIFY ***** 48-HOURS PRIOR TO OFFSITE SEWER CONSTRUCTION INITIATION.
 ALL EXISTING DISTURBED LANDSCAPING TO BE REPLANTED.
 EXISTING UTILITIES SHOWN ARE BASED ON BEST AVAILABLE INFORMATION PROVIDED BY SURVEYOR AND BWSA. CONTRACTOR TO VERIFY LOCATION AND ELEVATIONS OF ALL UTILITIES WITHIN LIMITS OF DISTURBANCE PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IF CONFLICT EXISTS.

CITY OF BEAUFORT
 DB. 1794, PG. 617
 LOT 34
 PB. 12, PG. 1

SSMH-A
 SURGE MH - SEE DETAIL (COAT AS PER BWSA SPECS)
 N=22119.69 E=2096762.84
 FR:15.51
 I.E. IN:5.25
 I.E. OUT:7.75

EX. SSMH--SS10-124
 FR:13.11
 I.E.:6.47

EX. SSMH--SS10-092
 FR:12.42
 I.E. IN:6.05
 I.E.6.04
 I.E.6.62

EX. 24 LF 8" PVC
 S=0.62%

EX. SSMH--SS10-071
 FR:15.51
 I.E.:8.04

SSMH-B
 N=22107.24 E=2096764.91
 FR:15.07
 I.E.:7.68
 I.E.:7.58

EX. SSMH--SS10-093
 FR:11.79
 I.E.:5.12

SSMH-E
 FR:11.44
 I.E. IN:4.71
 I.E. OUT:4.61

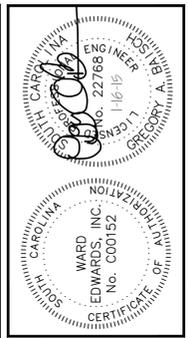
SSMH-F (DROP MH)
 N=221085.00 E=2096624.46
 FR:11.41
 I.E.:4.52
 I.E.:2.00

101 LF 8" PVC
 S=1.00%

SSMH-D
 FR:13.29
 I.E. IN:5.82
 I.E. OUT:5.72

110 LF 8" PVC
 S=1.00%

275 LF Silt Fence as per SCDHEC DETAILS



| NO. | DESCRIPTION | DATE | PLAN REVISIONS |
|-----|--|----------|----------------|
| 7 | | | |
| 6 | | | |
| 5 | | | |
| 4 | | | |
| 3 | MOVED PRO. SAN. SEWER - JACK & BORE BOUNDARY | 01/16/15 | |
| 2 | MOVED PRO. SAN. SEWER TO CENTER OF EASEMENT | 12/31/14 | |
| 1 | | | |

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LOVEJOY SANITARY SEWER REALIGNMENT
 BEAUFORT COUNTY, SOUTH CAROLINA
 CITY OF BEAUFORT PUBLIC WORKS
 BEAUFORT, SOUTH CAROLINA
UTILITY PLAN

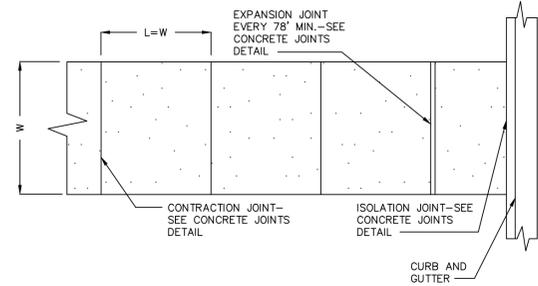
NOT FOR CONSTRUCTION
 RELEASED FOR CONSTRUCTION

PROJECT #: 150215H
 DATE: 1/16/15
 DESIGNED BY: RB
 CHECKED BY: GAB
 SCALE: 1"=20'

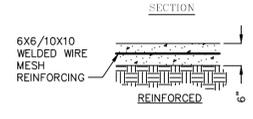
SHEET
C104

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

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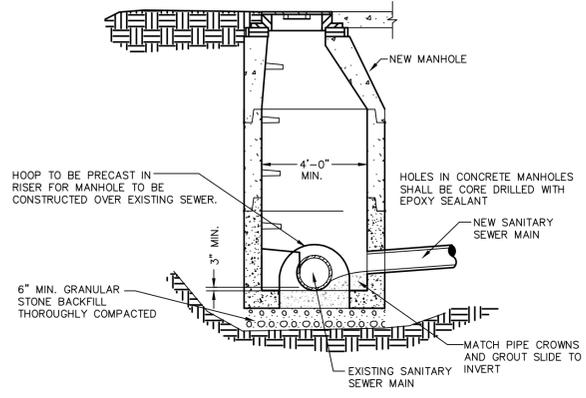


- NOTES:**
1. W = VARIES, REFER TO STAKING PLAN. FILL IN BASED ON SITE PLAN
 2. L = WIDTH OF PAVING UNLESS OTHERWISE INDICATED ON PLAN.
 3. SLOPE = AS INDICATED ON GRADING PLAN, NOT TO EXCEED 2% CROSS OR 8.33% LONGITUDINAL.
 4. ALL CONCRETE SHALL BE CLASS A 3000 PSI.
 5. FINISH: BROOM WITH HAND TOOLED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



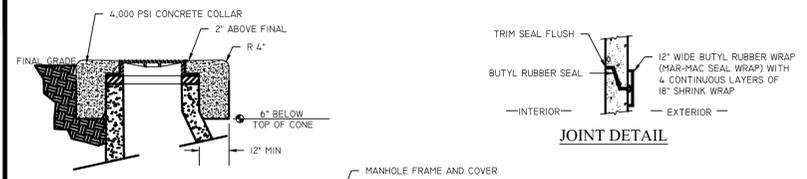
CONCRETE SIDEWALK

DETAIL 03300-006



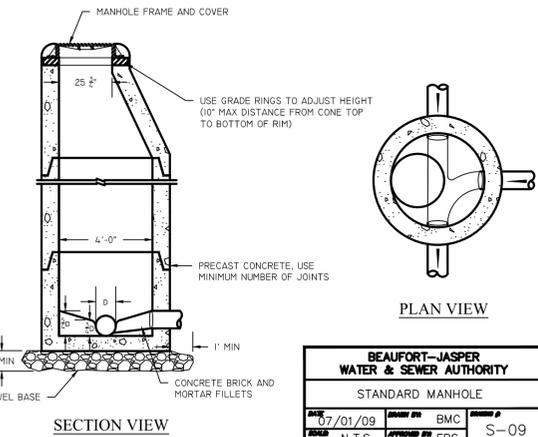
NEW MANHOLE OVER EXISTING SEWER LINE

DETAIL 02530-027

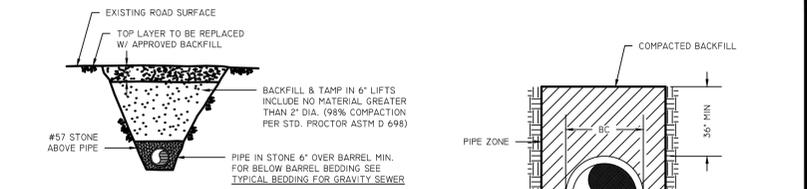


RURAL MANHOLE PROTECTIVE COLLAR

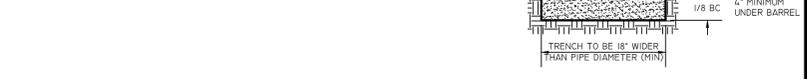
- NOTES:**
1. REFER TO STANDARD SPECIFICATIONS FOR INTERIOR COATING REQUIREMENTS.
 2. CONCRETE GROUTING IS NOT ALLOWED INSIDE MANHOLES.
 3. RIM ELEVATION ON RURAL MANHOLES SHALL BE 6" HIGHER THAN NEAREST MANHOLE OUTSIDE THE RURAL AREA.



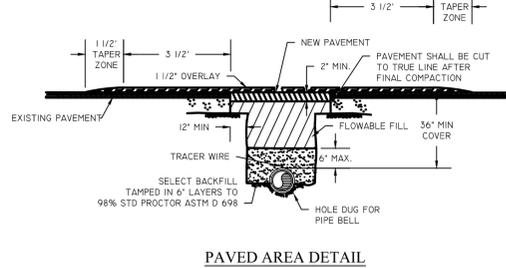
BEAUFORT-JASPER WATER & SEWER AUTHORITY
STANDARD MANHOLE
DATE: 07/01/09
SCALE: N.T.S. APPROVED BY: BMC ERS S-09



UNPAVED ROADWAY BEDDING DETAIL

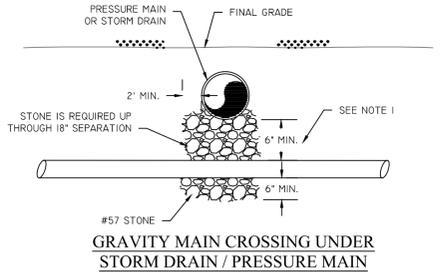


TYPICAL BEDDING FOR GRAVITY SEWER PIPE



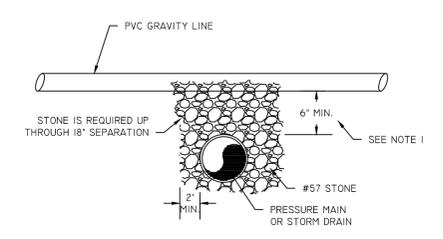
PAVED AREA DETAIL

BEAUFORT-JASPER WATER & SEWER AUTHORITY
BEDDING DETAIL, GRAVITY PIPE
DATE: 07/01/09
SCALE: N.T.S. APPROVED BY: BMC ERS S-01



GRAVITY MAIN CROSSING UNDER STORM DRAIN / PRESSURE MAIN

- NOTE:**
1. SYSTEMS SHOULD NOT BE DESIGNED WITH LESS THAN 12" SEPARATION. IF LESS SEPARATION IS UNAVOIDABLE, WRITTEN AUTHORIZATION FROM BJWSA IS REQUIRED.

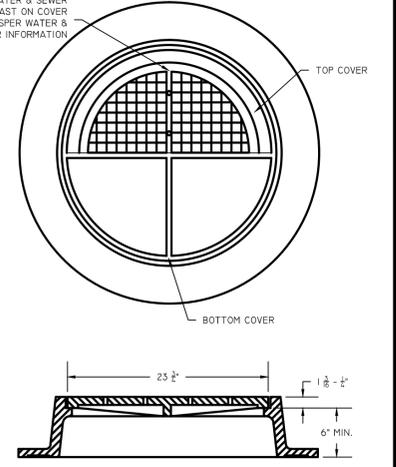


GRAVITY MAIN CROSSING OVER STORM DRAIN / PRESSURE MAIN

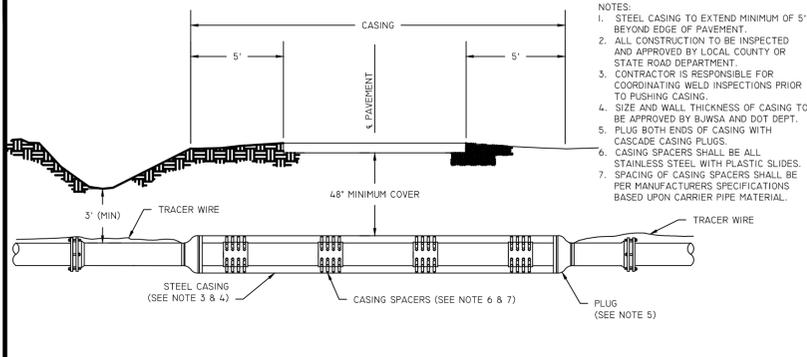
BEAUFORT-JASPER WATER & SEWER AUTHORITY
GRAVITY MAIN CROSSING
DATE: 07/01/09
SCALE: N.T.S. APPROVED BY: BMC ERS S-03



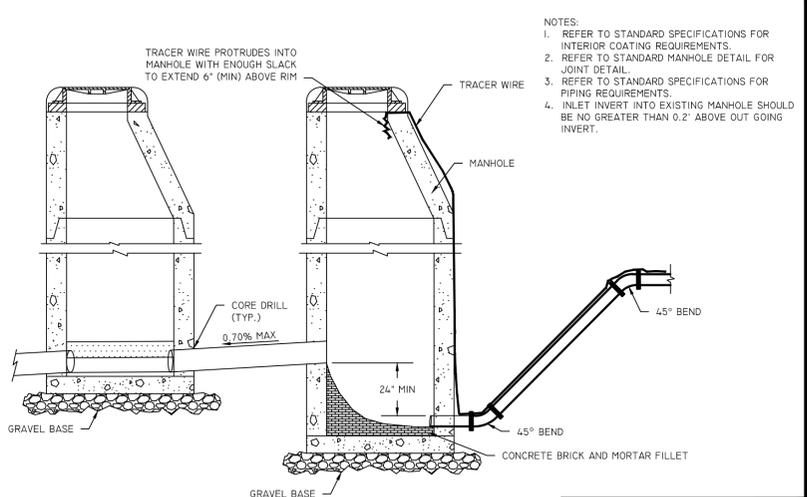
- NOTES:**
1. CASTINGS SHALL BE OF UNIFORM QUALITY, FREE FROM BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE, DISTORTION OR OTHER DEFECTS. THEY SHALL BE SMOOTH AND WELL CLEANED BY SHOT BLASTING OR BY SOME OTHER APPROVED METHOD UNLESS AN ALTERNATIVE SPECIFICATION IS MADE.
 2. MATERIALS USED IN THE MANUFACTURE OF CASTINGS SHOULD CONFORM TO ASTM, AASHTO, ASA, MIL, AMS OR FEDERAL SPECIFICATIONS FOR GRAY IRON OR DUCTILE IRON AS FOLLOWS: GRAY IRON-ASTM CLASS 35, DUCTILE IRON-GRADE 40-40-15.
 3. ALL CASTINGS SHALL BE MANUFACTURED TRUE TO PATTERN



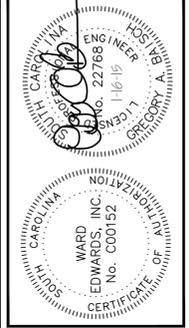
BEAUFORT-JASPER WATER & SEWER AUTHORITY
MANHOLE, COVER AND FRAME
DATE: 07/01/09
SCALE: N.T.S. APPROVED BY: BMC ERS S-05



BEAUFORT-JASPER WATER & SEWER AUTHORITY
BORE AND JACK DETAIL
DATE: 07/01/09
SCALE: N.T.S. APPROVED BY: BMC ERS G-03



BEAUFORT-JASPER WATER & SEWER AUTHORITY
FORCE MAIN CONTROL MANHOLE
DATE: 07/01/09
SCALE: N.T.S. APPROVED BY: BMC ERS S-08



| NO. | DESCRIPTION | DATE | PLAN REVISIONS |
|-----|--|----------|----------------|
| 7 | | | |
| 6 | | | |
| 5 | | | |
| 4 | | | |
| 3 | MOVED PRO. SAN. SEWER - JACK & BORE BOUNDARY | 01/16/15 | |
| 2 | MOVED PRO. SAN. SEWER TO CENTER OF EASEMENT | 12/31/14 | |
| 1 | | | |

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LOVEJOY SANITARY SEWER REALIGNMENT
BEAUFORT COUNTY, SOUTH CAROLINA
CITY OF BEAUFORT PUBLIC WORKS
BEAUFORT, SOUTH CAROLINA
CONSTRUCTION DETAILS

NOT FOR CONSTRUCTION
 RELEASED FOR CONSTRUCTION

PROJECT #: 150215H
DATE: 1/16/15
DESIGNED BY: RB
CHECKED BY: GAB
SCALE: AS NOTED

SHEET C106