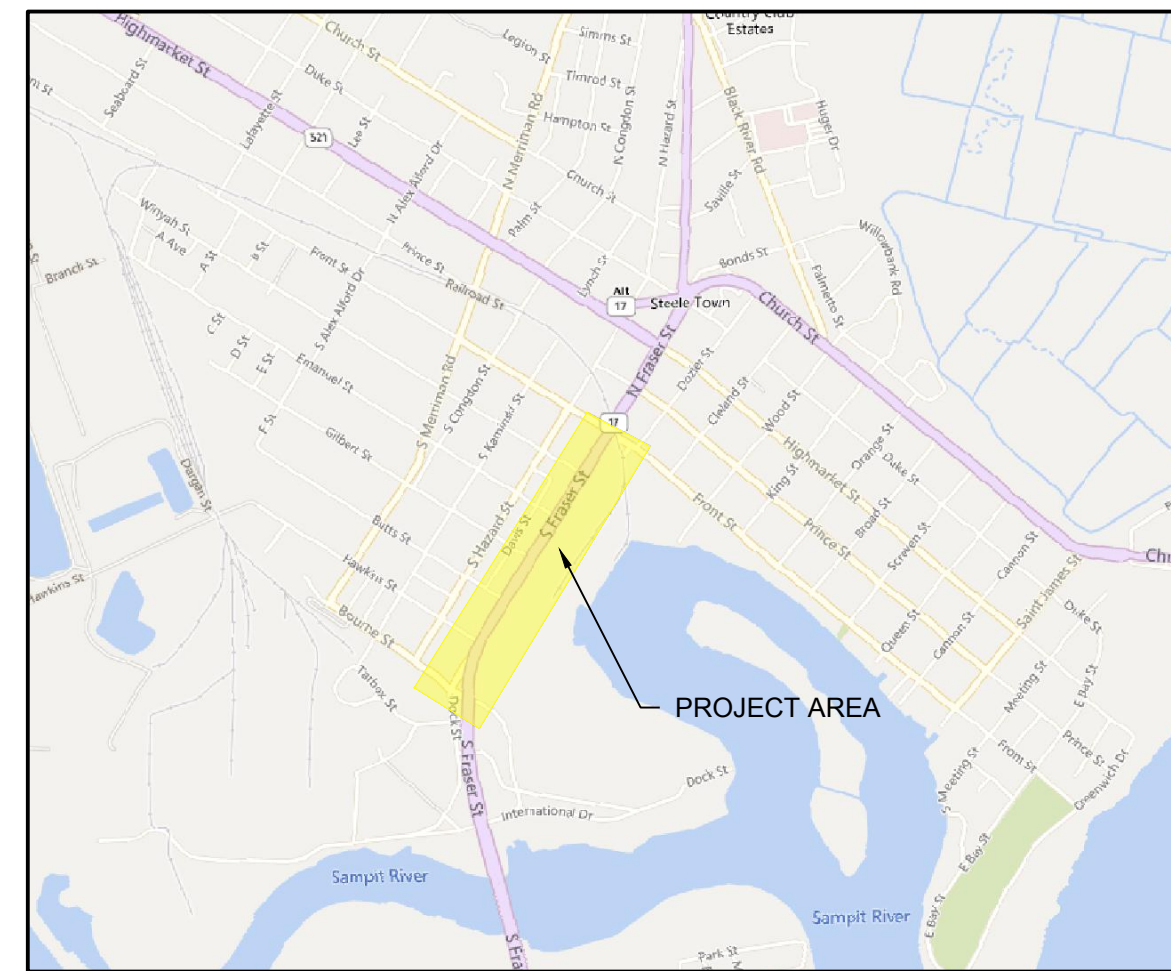


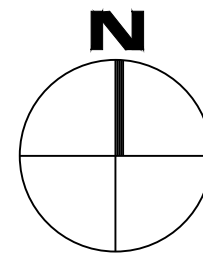
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SANITARY SEWER & MANHOLE REHABILITATION

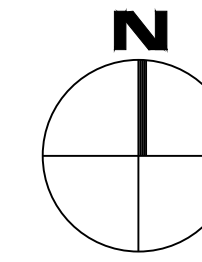
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LOCATION MAP
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VICINITY MAP
NOT TO SCALE



January 2024

MAYOR
CAROL JAYROE

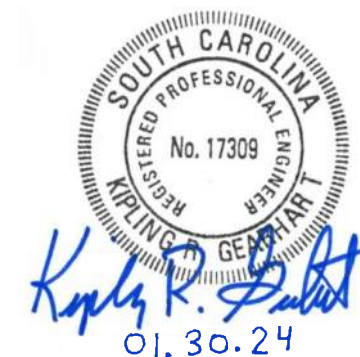
CITY COUNCIL
JIM CLEMENTS
JONATHAN ANGNER
BRUCE CARL
ERIN ETHRIDGE
JIMMY MORRIS
TAMIKA WILLIAMS-OBENG



CITY ADMINISTRATOR
SCOTT WHITTIER

CITY ENGINEER
ORLANDO ARTEAGA, P.E.

DRAWING INDEX	
SHEET	TITLE
G000	COVER AND DRAWING INDEX
G001	GENERAL NOTES
C100 - C102	INFRASTRUCTURE DATA MAPS
C200 - C202	RECOMMENDED REHABILITATION MAPS
C300	MANHOLE REHAB TABLE
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C400	CONSTRUCTION DETAILS
C401	CONSTRUCTION DETAILS
C402	SCDOT STANDARD DRAWINGS AND EROSION AND SEDIMENT CONTROL DETAILS
C403	SCDOT STANDARD TRAFFIC CONTROL DETAILS



Project:
CITY OF GEORGETOWN
2377 MAYBANK DRIVE
GEORGETOWN, SC 29440



SANITARY SEWER and
MANHOLE SURVEY
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PROJECT #1818



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Date: SEPTEMBER 2023

Drawn By: JAP

Reviewed By: NTS/JTB

Approved By: KG

W&S Project No.: ENG23-0476

W&S File No.:

Drawing Title:
COVER SHEET

Sheet Number:
G000

GENERAL NOTES:

- A COMPLETE SET OF APPROVED DRAWINGS MUST BE MAINTAINED ON SITE AT ALL TIMES WHILE THE CONTRACTOR IS PERFORMING WORK.
- WITHIN ALL NOTES, THE TERM CONTRACTOR SHALL MEAN THE GENERAL CONTRACTOR AND ANY SUBCONTRACTOR OR VENDOR PERFORMING CONSTRUCTION ON THE SITE.
- SHOULD THE CONTRACTOR FIND ANY DISCREPANCIES ON THE DRAWINGS, OR IN THE FIELD PRIOR TO BEGINNING WORK OR DURING CONSTRUCTION, THEY SHALL IMMEDIATELY NOTIFY THE ENGINEER AND THE OWNER.
- THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION AND IS RESPONSIBLE FOR ANY DAMAGE TO THEM DURING CONSTRUCTION. CONTRACTOR SHALL CONTACT PALMETTO UTILITY PROTECTION SERVICE (PUPS) AT 1-888-721-7877 OR 811 AT LEAST 72 HOURS BEFORE CONSTRUCTION BEGINS. CONTRACTOR SHALL HAVE COPIES OF ACTIVE DIG TICKETS ON-SITE DURING CONSTRUCTION.
- THE CONTRACTOR SHALL COMPLY WITH ALL RULES AND REGULATIONS OF FEDERAL, STATE, COUNTY, AND LOCAL MUNICIPALITIES.
- ALL MATERIALS, METHODS, AND DETAILS OF CONSTRUCTION SHALL CONFORM TO THE PROJECT SPECIFICATIONS AND DRAWINGS.
- ALL RIGHT-OF-WAY CONSTRUCTION SHALL MEET THE REQUIREMENTS OF LOCAL AND STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND DRAWINGS AND COMPLY WITH ALL PERMIT REQUIREMENTS.
- THE CONTRACTOR IS REQUIRED TO MEET ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS CONCERNING PROJECT SAFETY AND ASSUMES FULL RESPONSIBILITY FOR SAFETY ON THE PROJECT.
- GENERAL CONTRACTOR SHALL VERIFY THAT ALL NECESSARY PERMITS FOR CONSTRUCTION HAVE BEEN OBTAINED PRIOR TO THE START OF THE PROJECT.
- ANY CONSTRUCTION TRAILERS USED ON-SITE SHALL BE PERMITTED THROUGH LOCAL GOVERNING AGENCY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ACQUIRE ALL NECESSARY PERMITS.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO EXISTING INFRASTRUCTURE WITHIN THE SITE OR ADJOINING PROPERTIES (i.e. PAVEMENT, CURB, SIDEWALK, UTILITIES, LANDSCAPED AREAS, ETC.). CONTRACTOR SHALL REPAIR/REPLACE ALL DAMAGED ITEMS IMMEDIATELY, IF NECESSARY, OR PRIOR TO THE END OF THE JOB AT AT NO COST TO THE UTILITY IN ACCORDANCE WITH LOCAL REGULATORY REQUIREMENTS.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION OF ALL UTILITIES BY THE APPROPRIATE UTILITY COMPANY AND SUBCONTRACTORS PERFORMING WORK TO AVOID CONFLICTS. GENERAL CONTRACTOR IS ALSO RESPONSIBLE FOR SCHEDULING INSTALLATION OF ALL UTILITIES IN A TIMELY, ORGANIZED, AND SYSTEMATIC MANNER.
- IN THE EVENT OF A CONFLICT WITH WATER, SEWER, DRAINAGE, OR OTHER UTILITIES, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER PRIOR TO MAKING FIELD ADJUSTMENTS.
- ALL MATERIALS SHALL CONFORM TO THE UTILITY STANDARD SPECIFICATIONS AND DETAILS AS TO TYPE AND DESIGN.
- EXCEPT AT HIS OWN RISK, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER ON ALL MATERIALS PRIOR TO PURCHASE OR INSTALLATION.
- BIDDER SHALL VISIT THE SITE TO FAMILIARIZE THEMSELVES WITH THE WORK TO BE PERFORMED IN ACCORDANCE TO THE CONTRACT DOCUMENTS PRIOR TO BID.
- THE UTILITY SHALL MAINTAIN OWNERSHIP OF ALL DEMOLISHED ITEMS. ANY DEMOLISHED ITEMS DEEMED UNWANTED BY THE CITY BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED AND DISPOSED OF OFF-SITE IN A SATISFACTORY MANNER.

CONSTRUCTION NOTES:

- ALL MATERIALS, METHODS, AND DETAILS OF CONSTRUCTION SHALL CONFORM TO THE PROJECT SPECIFICATIONS AND DRAWINGS.
- THE CONTRACTOR(S) SHALL LOCATE AND PLACE SIGNAGE AT ALL OVERHEAD POWER CROSSINGS MARKING THEIR LOCATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ANY NECESSARY TRAFFIC CONTROLS THROUGHOUT THE DURATION OF THE PROJECT. IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION), SCDOT, AND LOCAL AGENCIES. CONTRACTOR SHALL ABIDE BY ALL REQUIREMENTS IN THE APPROVED ENCROACHMENT PERMITS.
- THE CONTRACTOR SHALL ENSURE THAT ALL-WEATHER ACCESS TO LOCAL RESIDENCES AND BUSINESSES IS MAINTAINED THROUGHOUT CONSTRUCTION.
- THE CONTRACTOR SHALL CLEAN AND MAINTAIN ALL ROADWAYS AS NECESSARY TO ENSURE THAT NO CONSTRUCTION DEBRIS IS PRESENT FOR EXTENDED PERIODS OF TIME.
- ALL EXCAVATION AND COMPACTION OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATIONS.
- ALL BACKFILL MATERIALS SHALL BE IN ACCORDANCE WITH SPECIFICATIONS.
- THE CONTRACTOR SHALL PERFORM IN-PLACE MOISTURE DENSITY TESTS FOR ALL COMPACTED MATERIAL USING A RECOGNIZED TESTING LABORATORY APPROVED BY THE ENGINEER OR OWNER.
- TRENCH EXCAVATION SHALL NOT EXCEED BACKFILL BY MORE THAN 100 FEET. NO TRENCH SHALL BE LEFT OPEN AFTER NORMAL WORKING HOURS.
- DURING WORKING HOURS, ALL OPEN EXCAVATIONS SHALL BE ENCLOSED WITH ORANGE SAFETY BARRICADE FENCE AND DRUMS. NO OPEN EXCAVATIONS SHALL REMAIN UNCOVERED OVERNIGHT.
- THE CONTRACTOR SHALL REMOVE ALL RUBBISH, TRASH, DEBRIS, AND EXCESS EXCAVATED MATERIALS FROM THE PROJECT AREA AND DISPOSE OF THEM IN A LEGAL MANNER.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY DEWATERING TO PERFORM AND MAINTAIN EXCAVATIONS AND GRADES. DEWATERING OPERATIONS SHALL NOT DISCHARGE DIRECTLY INTO MARSH OR WETLAND AREAS. WATER PUMPED FROM EXCAVATION AND OTHER WORK AREAS MUST BE HELD IN SETTLING BASINS OR FILTERED PRIOR TO DISCHARGE INTO SURFACE WATERS OR STORM DRAINAGE SYSTEMS. WATER MUST BE DISCHARGED THROUGH A PIPE, WELL-GRASSED OR LINED CHANNEL, OR EQUIVALENT MEANS SUCH THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENTATION.
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY OBSTRUCTIONS (FENCES, MAILBOXES, ETC.) IN THE PATH OF CONSTRUCTION AND REPLACING THEM IN THE SAME CONDITION INITIALLY FOUND OR AS SHOWN IN CONTRACT DRAWINGS.
- THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS REGARDING EROSION AND SEDIMENT CONTROL AND STORMWATER POLLUTION PREVENTION.
- CONNECTION TO EXISTING SEWER SYSTEM AND REQUIRED TESTS SHALL BE MADE IN THE PRESENCE OF UTILITY INSPECTOR. CONTRACTOR SHALL NOTIFY THE UTILITY AT LEAST 5 DAYS PRIOR TO TESTING AND CONNECTIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING WASTEWATER FLOWS AT ALL TIMES, WHETHER PERMANENT OR TEMPORARY IN NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES, FEES AND ANY CLEANUP COSTS ASSOCIATED WITH OVERFLOWS/SPILLS DURING CONSTRUCTION.
- THE CONTRACTOR SHALL INCORPORATE THE USE OF LINE STOPPERS AS NECESSARY TO AVOID ANY SPILLS DURING TIE-IN/CONNECTIONS TO EXISTING LINES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INTEGRITY OF THE EXISTING FACILITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR REMAINING IN COMPLIANCE WITH ALL OSHA, STATE, AND FEDERAL REGULATIONS PERTAINING TO WORKING WITH WASTEWATER GASES, COMBUSTIBLE OXYGEN DEFICIENT ATMOSPHERES, AND CONFINED SPACES.
- ANY EXISTING FENCE LINES WITHIN THE EXISTING UTILITY SEWER EASEMENTS SHALL BE REMOVED AND REINSTALLED AS REQUIRED FOR BYPASS PUMPING PURPOSES.
- THE CONTRACTOR SHALL NOTIFY/COORDINATE WITH THE APPROPRIATE UTILITY COMPANIES THE RELOCATION OF ANY UTILITY SERVICE AS INDICATED IN THE DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COSTS INCURRED IN THE RELOCATION OF THE UTILITIES.
- NOTIFY THE OWNER/ENGINEER AT A MINIMUM OF 48-HOURS BEFORE ANY BYPASS PUMPING ACTIVITIES BEGIN.

STANDARD EROSION CONTROL NOTES:

- 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.
- 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 ON THAT PORTION OF THE SITE.
- ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR EVERY WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP WAS CONDUCTED INAPPROPRIATELY, OR INCORRECTLY, THE PERMITTEE MUST ADDRESS 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 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. ALL 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 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.
- 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.
- 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.
- 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 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.
- 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.
- MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
- 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 ARE TO 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 EVERY 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 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.
- 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.
- THE CONTRACTOR SHALL STABILIZE ALL DISTURBED AREAS WITH TEMPORARY AND PERMANENT SEEDING. EXCAVATIONS WITHIN YARDS MUST BE RESTORED WITH SOD.
- ALL EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES MUST BE INSTALLED, INSPECTED, AND MAINTAINED PER SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL REQUIREMENTS.

ABBREVIATION REFERENCE TABLE

ABBREVIATION	REFERENCE
PUPS	PALMETTO UTILITY PROTECTION SERVICE
SCDOT	SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
S.C. REG	SOUTH CAROLINA REGULATION
WOS	WATERS OF THE STATE
SWPPP	STORMWATER POLLUTION PREVENTION PLAN
H	HORIZONTAL
V	VERTICAL
BMPS	BEST MANAGING PRACTICES
SC	SOUTH CAROLINA
MH	MANHOLE
N	NORTH
S	SOUTH
ML	MAINLINE
ST	STREET
REHAB	REHABILITATION
PROP	PROPOSED
ID	INNER DIAMETER
IN	INCHES (MEASUREMENT)
FT	FOOT (MEASUREMENT)
VCP	VITRIFIED CLAY PIPE
PVC	POLYVINYL CHLORIDE PIPE

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S. FRASER STREET
PROJECT #1818



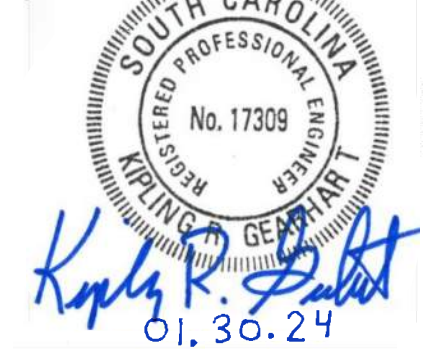
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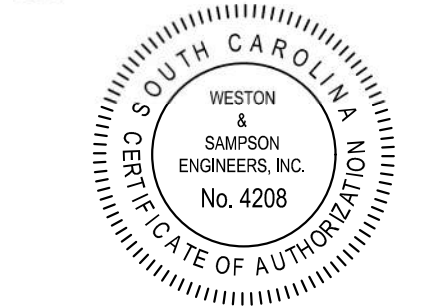
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Drawing Title:

GENERAL NOTES

Sheet Number:

G001



Legend

- SEWER MANHOLE
- ML RATING
- 1
- 2
- 3
- 4
- 5
- ↔ NO INSPECTION
- NON-PROJECT SEWER PIPES
- NON-PROJECT SEWER MANHOLES

Project:
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Reviewed By: PW/JB

Approved By: KG

W&S Project No.: ENG23-0476

W&S File No.:

Drawing Title:

INFRASTRUCTURE DATA MAP I

S. FRASER STREET
 FROM BOURNE STREET
 TO FRONT STREET

Sheet Number:

C100



Legend

- SEWER MANHOLE
- ML RATING
- 1
- 2
- 3
- 4
- 5
- ↔ NO INSPECTION
- ↔ NON-PROJECT SEWER PIPES
- NON-PROJECT SEWER MANHOLES

Project:
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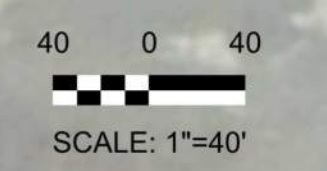
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INFRASTRUCTURE DATA MAP II

S. FRASER STREET
 FROM BOURNE STREET
 TO FRONT STREET

Sheet Number:

C101




Rev. 1.8 Date: 04/10/2019



Legend

- SEWER MANHOLE
- ML RATING
- 1
- 2
- 3
- 4
- 5
- NO INSPECTION
- NON-PROJECT SEWER PIPES
- NON-PROJECT SEWER MANHOLES

Project:
 CITY OF GEORGETOWN
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 GEORGETOWN, SC 29440



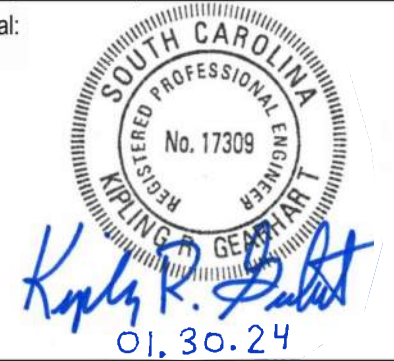
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 S. FRASER STREET
 PROJECT #1818

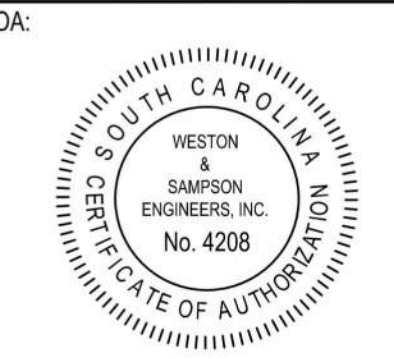
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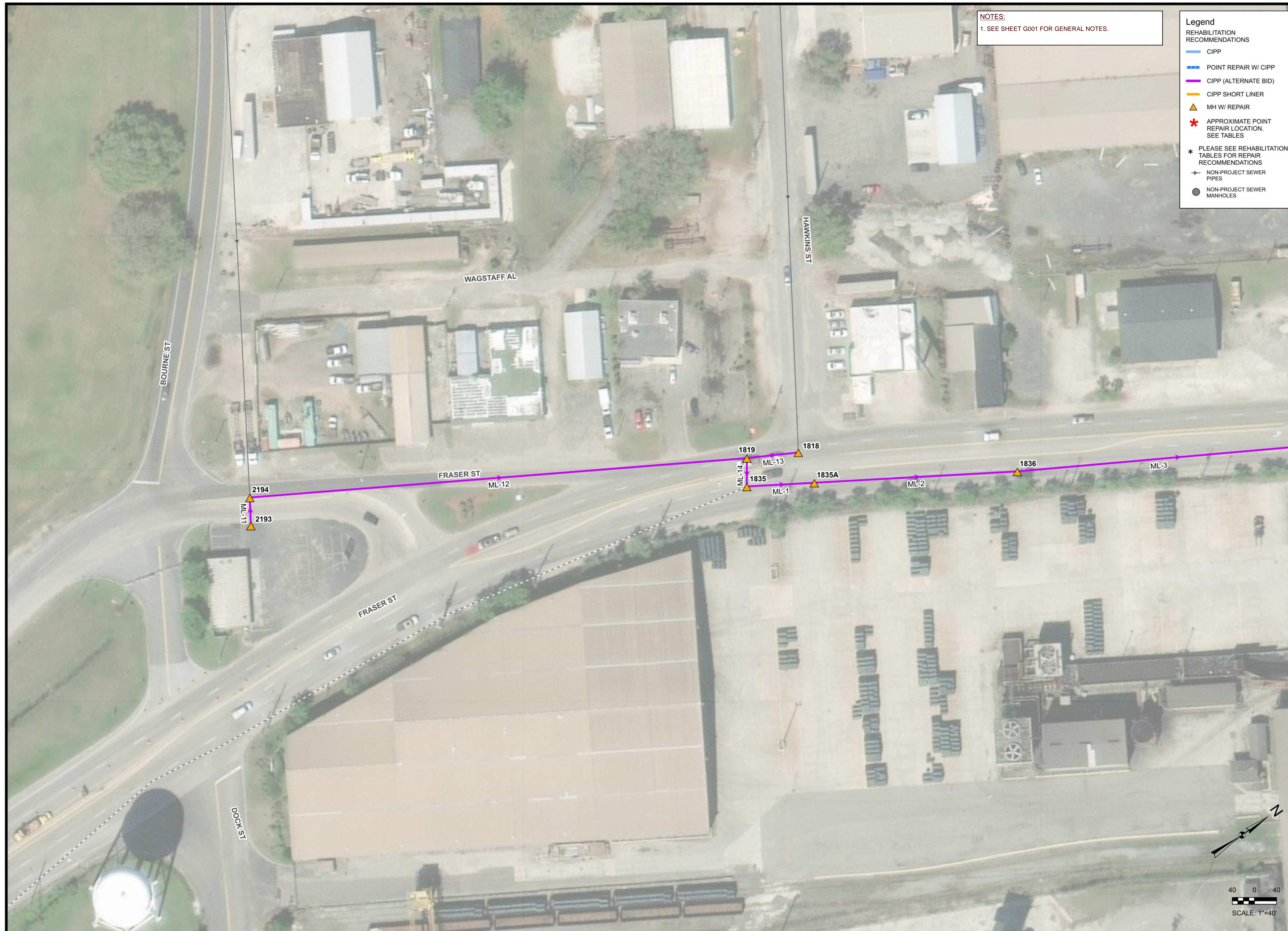
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 Reviewed By: PW/JB
 Approved By: KG
 W&S Project No.: ENG23-0476
 W&S File No.:

Drawing Title:
 INFRASTRUCTURE DATA MAP
 III
 S. FRASER STREET
 FROM BOURNE STREET
 TO FRONT STREET

Sheet Number:
C102



NOTES:
1. SEE SHEET G001 FOR GENERAL NOTES.

- Legend**
REHABILITATION RECOMMENDATIONS
- CIPP
 - POINT REPAIR W/ CIPP
 - CIPP (ALTERNATE BID)
 - CIPP SHORT LINER
 - ▲ MH W/ REPAIR
 - * APPROXIMATE POINT REPAIR LOCATION. SEE TABLES
 - * PLEASE SEE REHABILITATION TABLES FOR REPAIR RECOMMENDATIONS
 - NON-PROJECT SEWER PIPES
 - NON-PROJECT SEWER MANHOLES

Project:
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GEORGETOWN, SC 29440

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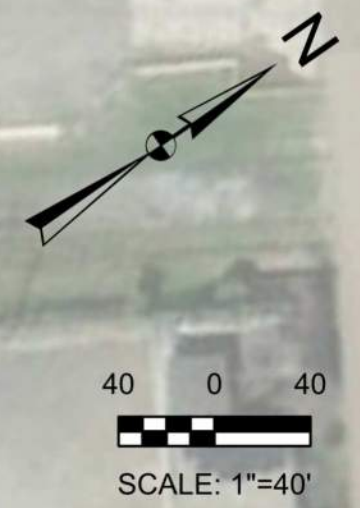
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W&S Project No.: ENG23-0476

W&S File No.:

Drawing Title:
RECOMMENDED REHABILITATION MAP I
S. FRASER STREET FROM BOURNE STREET TO FRONT STREET

Sheet Number:
C200



Rev: 1.8 Date: 04/10/2019



NOTES:
 1. SEE SHEET G001 FOR GENERAL NOTES.
 2. ALL INLETS SHALL RECEIVE APPROVED PROTECTION AS REQUIRED FOR THE POINT REPAIR ON LINE SEGMENT 1832_1831. SEE G001 FOR SEDIMENT AND EROSION NOTES.

Legend
 REHABILITATION RECOMMENDATIONS

- CIPP
- POINT REPAIR W/ CIPP
- CIPP (ALTERNATE BID)
- CIPP SHORT LINER
- ▲ MH W/ REPAIR
- * APPROXIMATE POINT REPAIR LOCATION. SEE TABLES
- * PLEASE SEE REHABILITATION TABLES FOR REPAIR RECOMMENDATIONS
- NON-PROJECT SEWER PIPES
- NON-PROJECT SEWER MANHOLES

Project:
 CITY OF GEORGETOWN
 2377 MAYBANK DRIVE
 GEORGETOWN, SC 29440

SANITARY SEWER AND MANHOLE SURVEY
 S. FRASER STREET
 PROJECT #1818

Weston & Sampson
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Consultants:

Revisions:

No.	Date	Description
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Drawing Title:
 RECOMMENDED REHABILITATION MAP II

S. FRASER STREET FROM BOURNE STREET TO FRONT STREET

Sheet Number:
C201

MANHOLE 1821 DOES NOT EXIST BASED ON CCTV FOOTAGE.

Rev. 1.8 Date: 04/10/2019



NOTES:
 1. SEE SHEET G001 FOR GENERAL NOTES.
 2. ALL INLETS SHALL RECEIVE APPROVED PROTECTION AS REQUIRED FOR THE MANHOLE REPLACEMENT AND POINT REPAIR ON LINE SEGMENT 1829_1828 AT THE INTERSECTION OF S. FRASER STREET AND FRONT STREET. SEE G001 FOR SEDIMENT AND EROSION NOTES.

- Legend**
 REHABILITATION RECOMMENDATIONS
- CIPP
 - POINT REPAIR W/ CIPP
 - CIPP (ALTERNATE BID)
 - CIPP SHORT LINER
 - ▲ MH W/ REPAIR
 - * APPROXIMATE POINT REPAIR LOCATION. SEE TABLES
 - * PLEASE SEE REHABILITATION TABLES FOR REPAIR RECOMMENDATIONS
 - NON-PROJECT SEWER PIPES
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 RECOMMENDED
 REHABILITATION MAP III
 S. FRASER STREET
 FROM BOURNE STREET
 TO FRONT STREET

Sheet Number:
C202

Rev. 1.8 Date: 04/10/2019

Repair Item	Sheet Number	Manhole ID	Location Details	MH Width (in)	MH Depth (ft)	NORTHING	EASTING	Replace Manhole with New 4' Dia. Precast Manhole	Replace Manhole with New 5' Dia. Precast Manhole	Remove and Replace Standard MH Frame & Cover	Remove and Reset Existing Frame & Cover	Install New Flexible Chimney Seal	Repairing & Rebuilding Brickwork for Inverts, Channels, Benches, Wall, Cone & Chimneys	Coating Inverts w/ Quick Setting Grout	Sewer Monolithic Lining 4-ft Dia.	Lining Type	Level 2 MACP MH Inspection	Defect Location	Description of Defects	Manhole Report
MH-1	C200	1818	STREET	45.80	9.60	561679.69	2520471.41	NO	NO	NO	NO	YES	YES	YES	YES	CEMENTITIOUS	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	MISSING MORTAR LARGE; INFILTRATION STAIN; INFILTRATION WEEPER; INFILTRATION DRIPPER	1818MH.pdf
MH-2	C200	1819	STREET	45.90	9.80	561638.68	2520448.99	NO	NO	NO	NO	YES	NO	YES	YES	CEMENTITIOUS	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	MISSING MORTAR LARGE; INFILTRATION STAIN; INFILTRATION WEEPER; MISSING MORTAR SMALL; DEPOSITS SETTLED	1819MH.pdf
MH-3	C201	1822	PRIVATE PROP.	N/A	N/A	562522.39	2521056.80	NO	NO	NO	NO	NO	NO	NO	NO	N/A	NO		REMOVED FROM SCOPE (Manhole Located on Private Property)	N/A
MH-4	C201	1823	PRIVATE PROP.	43.30	5.10	562483.77	2521019.71	NO	NO	NO	NO	NO	NO	NO	NO	N/A	NO		REMOVED FROM SCOPE (Manhole Located on Private Property)	1823MH.pdf
MH-5	C202	1828	STREET	45.60	14.00	563869.70	2521822.41	NO	YES	NO	NO	YES	NO	NO	NO	N/A	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	BROKEN SOIL VISIBLE; DISPLACED BRICK; MISSING MORTAR LARGE	1828MH.pdf
MH-6	C202	1829	STREET	48.00	10.90	563425.98	2521551.15	NO	NO	NO	NO	YES	YES	YES	YES	CEMENTITIOUS	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	INFILTRATION WEEPER; MISSING MORTAR LARGE; HOLE VOID VISIBLE; INFILTRATION DRIPPER	1829MH.pdf
MH-7	C201	1830	STREET	47.40	9.30	562984.26	2521281.46	NO	NO	NO	NO	YES	YES	YES	YES	CEMENTITIOUS	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	MISSING MORTAR MEDIUM; INFILTRATION STAIN; MISSING MORTAR LARGE; HOLE SOIL VISIBLE; INFILTRATION WEEPER; DISPLACED BRICK; OBSTRUCTION CONSTRUCTION DEBRIS	1830MH.pdf
MH-8	C201	1831	STREET	48.00	8.00	562773.30	2521152.07	NO	NO	NO	NO	YES	NO	YES	YES	CEMENTITIOUS	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	MISSING MORTAR LARGE; INFILTRATION STAIN; INFILTRATION WEEPER; OBSTRUCTION CONSTRUCTION DEBRIS; SURFACE DAMAGE AGGREGATE PROJECTING	1831MH.pdf
MH-9	C201	1832	STREET	46.40	8.00	562550.69	2521017.36	NO	NO	NO	NO	YES	NO	YES	YES	CEMENTITIOUS	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	MISSING MORTAR LARGE; INFILTRATION STAIN; MISSING MORTAR MEDIUM	1832MH.pdf
MH-10	C201	1833	STREET	50.40	8.10	562329.59	2520882.83	NO	NO	NO	NO	YES	NO	YES	YES	CEMENTITIOUS	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	MISSING MORTAR LARGE; INFILTRATION STAIN; DEPOSITS SETTLED FINE	1833MH.pdf
MH-11	C201	1834	STREET	45.30	9.00	562114.95	2520752.50	NO	NO	NO	NO	YES	YES	YES	YES	CEMENTITIOUS	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	MISSING MORTAR LARGE; DISPLACED BRICK; INFILTRATION WEEPER; OBSTRUCTION CONSTRUCTION DEBRIS	1834MH.pdf
MH-12	C200	1835	STREET	54.00	9.50	561624.00	2520470.00	NO	NO	NO	NO	YES	NO	YES	YES	CEMENTITIOUS	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	MISSING MORTAR LARGE; SURFACE DAMAGE AGGREGATE VISIBLE; INFILTRATION WEEPER; DEPOSITS ATTACHED RAGGING	1835MH.pdf
MH-13	C200	1835A	STREET	-	9.00	N/A	N/A	NO	NO	NO	NO	YES	NO	YES	YES	CEMENTITIOUS	YES	CHIMNEY, CONE, WALL, BENCH, CHANNEL	MANHOLE PAVED OVER COMPLETE MANHOLE INSPECTION	
MH-14	C200	1836	STREET	-	7.45	561831.90	2520598.92	NO	NO	NO	NO	YES	NO	YES	YES	CEMENTITIOUS	YES	SURCHARGED	MANHOLE WAS SURCHARGED COMPLETE MANHOLE INSPECTION	
MH-15	C201	1837	STREET	48.00	10.10	562157.48	2520793.48	NO	NO	NO	NO	YES	YES	YES	YES	CEMENTITIOUS	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	MISSING MORTAR LARGE; DISPLACED BRICK; INFILTRATION STAIN; DEPOSITS ATTACHED RAGGING; SURFACE DAMAGE AGGREGATE VISIBLE; INFILTRATION WEEPER	1837MH.pdf
MH-16	C201	1838	STREET	48.00	9.90	562493.44	2521003.02	NO	NO	NO	NO	YES	NO	YES	YES	CEMENTITIOUS	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	MISSING MORTAR LARGE; INFILTRATION STAIN; DEPOSITS ATTACHED RAGGING; SURFACE DAMAGE AGGREGATE VISIBLE; CRACK LONGITUDINAL; INFILTRATION WEEPER	1838MH.pdf
MH-17	C201	1839	STREET	47.40	10.30	562837.03	2521208.08	NO	NO	NO	NO	YES	YES	YES	YES	CEMENTITIOUS	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	MISSING BRICK; MISSING MORTAR LARGE; INFILTRATION STAIN; DEPOSITS ATTACHED RAGGING; INFILTRATION WEEPER	1839MH.pdf
MH-18	C202	1840	STREET	48.00	12.00	563181.31	2521418.18	NO	NO	NO	NO	YES	NO	YES	YES	CEMENTITIOUS	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	MISSING MORTAR MEDIUM; INFILTRATION STAIN; MISSING MORTAR LARGE; DEPOSITS ATTACHED RAGGING; SURFACE DAMAGE AGGREGATE VISIBLE; INFILTRATION WEEPER	1840MH.pdf
MH-19	C202	1841	STREET	48.00	13.30	563476.11	2521598.14	NO	NO	NO	NO	YES	NO	YES	YES	CEMENTITIOUS	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	MISSING MORTAR SMALL; MISSING MORTAR LARGE; INFILTRATION STAIN; DEPOSITS ATTACHED RAGGING; SURFACE DAMAGE AGGREGATE VISIBLE	1841MH.pdf
MH-20	C202	1842	STREET	48.00	10.00	563813.84	2521801.79	NO	NO	NO	NO	YES	NO	YES	YES	CEMENTITIOUS	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	MISSING MORTAR LARGE; INFILTRATION STAIN; DEPOSITS ATTACHED RAGGING; SURFACE DAMAGE AGGREGATE VISIBLE; INFILTRATION WEEPER; OBSTRUCTION CONSTRUCTION DEBRIS	1842MH.pdf
MH-21	C200	2193	STREET	44.00	4.20	561236.75	2520241.97	NO	NO	NO	NO	YES	NO	YES	YES	CEMENTITIOUS	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	MISSING MORTAR LARGE; INFILTRATION WEEPER; DEPOSITS SETTLED FINE; DEPOSITS ATTACHED GREASE; MISSING MORTAR MEDIUM	2193MH.pdf
MH-22	C200	2194	STREET	44.30	4.20	561250.51	2520220.60	NO	NO	NO	NO	YES	NO	YES	YES	CEMENTITIOUS	NO	CHIMNEY, CONE, WALL, BENCH, CHANNEL	MISSING MORTAR MEDIUM; MISSING MORTAR LARGE; DEPOSITS SETTLED GRAVEL	2194MH.pdf

Project:
CITY OF GEORGETOWN
2377 MAYBANK DRIVE
GEORGETOWN, SC 29440



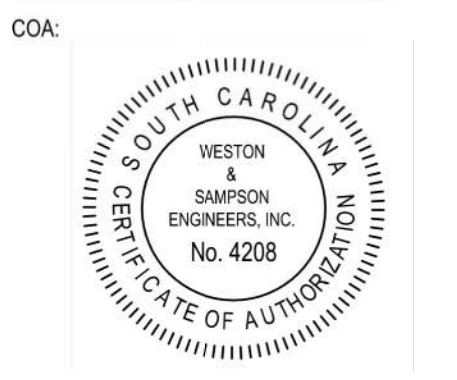
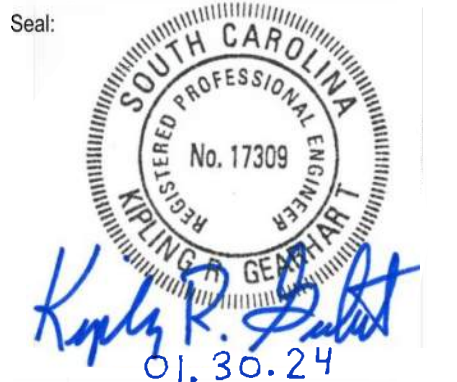
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W&S File No.:

Drawing Title:
MANHOLE REHAB TABLE

Sheet Number:
C300

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Rev: 1.6 Date: 04/10/2019

ML #	Sheet Number	Facility ID	Start MH	End MH	Material	CCTV Verified Diameter	CCTV Verified Length	Taps Active	Taps Inactive	Overall Inspection Grade	Proposed Rehab	Rehab Details
ML-1	C200	1835_1835A	1835	1835A	VCP	15	61.0	0	0	1	Alternate Bid	No work recommended; CIPP Line Segment (Alternate Bid Item)
ML-2	C200	1835A_1836	1835A	1836	VCP	15	181.1	0	0	1	Alternate Bid	No work recommended; CIPP Line Segment (Alternate Bid Item)
ML-3	C200/C201	1836_1837	1836	1837	VCP	15	378.0	0	0	1	No Work Recommended	No work recommended; CIPP Line Segment (Alternate Bid Item)
ML-4	C201	1837_1838	1837	1838	VCP	15	400.0	0	0	1	Alternate Bid	No work recommended; CIPP Line Segment (Alternate Bid Item)
ML-5	C201	1838_1839	1838	1839	VCP	15	400.0	0	0	3	CIPP Short Liner	CIPP Short Liner from 305 ft to 335 ft from USMH; Crack Multiple @ 310 ft to 330 ft from USMH.
ML-6	C201/C202	1839_1840	1839	1840	VCP	15	413.0	0	0	4	CIPP Short Liner	CIPP Short Liner centered at 355 ft from USMH; Large separated joint @ 355 ft from USMH
ML-7	C202	1840_1841	1840	1841	VCP	15	343.0	0	0	1	Alternate Bid	No work recommended; CIPP Line Segment (Alternate Bid Item)
ML-8	C202	1841_1842	1841	1842	VCP	15	398.0	0	0	1	Alternate Bid	No work recommended; CIPP Line Segment (Alternate Bid Item)
ML-9	C202	1842_1828	1842	1828	VCP	15	57.0	0	0	1	Alternate Bid	No work recommended; CIPP Line Segment (Alternate Bid Item)
ML-10	C201	1823_1838	1823	1838	VCP	8	30.0	1	0	5	Alternate Bid	CIPP Line Segment (Alternate Bid Item)
ML-11	C200	2193_2194	2193	2194	VCP	8	25.0	0	0	1	Alternate Bid	No work recommended; CIPP Line Segment (Alternate Bid Item)
ML-12	C200	2194_1819	2194	1819	VCP	8	450.0	7	2	3	Alternate Bid	CIPP Line Segment (Alternate Bid Item)
ML-13	C200	1818_1819	1818	1819	CIPP	12	50.0	0	0	1	Alternate Bid	No work recommended; CIPP Line Segment (Alternate Bid Item)
ML-14	C200	1819_1835	1819	1835	CAS	12	40.0	0	0	3	Alternate Bid	Heavy clean line segment to remove encrustations; CIPP Line Segment (Alternate Bid Item)
ML-15	C201	1834_1833	1834	1833	VCP	12	257.0	3	4	1	CIPP	CIPP Line Segment
ML-16	C201	1833_1832	1833	1832	VCP	12	252.0	4	4	5	Remove Intruding Tap, CIPP	Cut out intruding tap at 209 ft from USMH; CIPP Line Segment
ML-17	C201	1832_1831	1832	1831	VCP	12	255.0	2	4	5	Point Repair CIPP	20 ft Point Repair starting 235 ft from USMH to MH 1831; CIPP Line Segment
ML-18	C201	1831_1830	1831	1830	VCP	12	256.0	4	5	4	CIPP	CIPP Line Segment
ML-19	C201/C202	1830_1829	1830	1829	VCP	12	512.0	5	12	4	CIPP	CIPP Line Segment
ML-20	C202	1829_1828	1829	1828	VCP	12	530.0	8	24	5	Point Repair CIPP	30 ft Point Repair starting at DSMH headed upstream; CIPP Line Segment
ML-21	C201	1822_1823	1822	1823	Line removed from scope, Friday May, 19, 2023 by City of Georgetown. Line segment is on private property (steel mill).							

Project:
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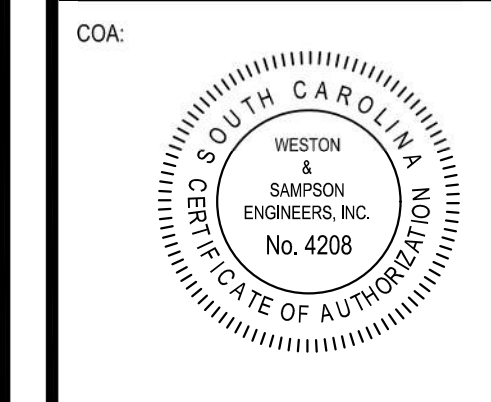
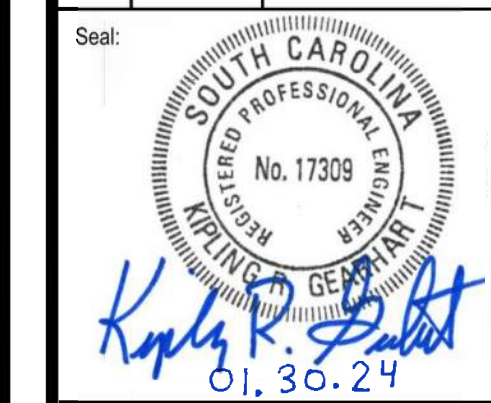
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MAINLINE REHAB TABLE

Sheet Number:
C301

Sheet Number	Pipe ID	Facility ID (USMH_DSMH)	Lateral Material	Lateral Distance from USMH	Active	Defective	Capped	End Seal	Abandon	No Work	Rehab Recommendations		
C200	ML-1	1835_1835A								X	No Main Line Service Connections		
C200	ML-2	1835A_1836								X	No Main Line Service Connections		
C200/C201	ML-3	1836_1837								X	No Main Line Service Connections		
C201	ML-4	1837_1838								X	No Main Line Service Connections		
C201	ML-5	1838_1839								X	No Main Line Service Connections		
C201/C202	ML-6	1839_1840								X	No Main Line Service Connections		
C202	ML-7	1840_1841								X	No Main Line Service Connections		
C202	ML-8	1841_1842								X	No Main Line Service Connections		
C202	ML-9	1842_1828								X	No Main Line Service Connections		
C201	ML-10	1823_1838	PVC	6.0	XX			XX			ALTERNATE BID: Reinstate lateral after main line CIPP is complete; Install end seal at main connection.		
C200	ML-11	2193_2194								X	No Main Line Service Connections		
C200	ML-12	2194_1819	VCP	63.4	XX			XX				ALTERNATE BID: Reinstate lateral after main line CIPP is complete; Install end seal at main connection.	
			VCP	114.7	XX			XX				ALTERNATE BID: Reinstate lateral after main line CIPP is complete; Install end seal at main connection.	
			VCP	165.8	XX			XX					ALTERNATE BID: Reinstate lateral after main line CIPP is complete; Install end seal at main connection.
			VCP	214.3		XX		XX					ALTERNATE BID: Contractor to verify if defective lateral is active. Reinstate if active; Abandon if defective cap.
			VCP	241.4	XX			XX					ALTERNATE BID: Reinstate lateral after main line CIPP is complete; Install end seal at main connection.
			VCP	271.5		XX		XX					ALTERNATE BID: Contractor to verify if defective lateral is active. Reinstate if active; Abandon if defective cap.
			VCP	334.9	XX			XX					ALTERNATE BID: Reinstate lateral after main line CIPP is complete; Install end seal at main connection.
			VCP	355.6	XX			XX					ALTERNATE BID: Reinstate lateral after main line CIPP is complete; Install end seal at main connection.
VCP	397.5	XX			XX					ALTERNATE BID: Reinstate lateral after main line CIPP is complete; Install end seal at main connection.			
C200	ML-13	1818_1819								X	No Main Line Service Connections		
C200	ML-14	1819_1835								X	No Main Line Service Connections		
C201	ML-15	1834_1833	DIP	83.3	X			X				Reinstate lateral after main line CIPP is complete. Install end seal at main connection.	
			VCP	85.7		X		XX				Contractor to verify if defective lateral is active. Reinstate if active; Abandon if defective cap.	
			VCP	140.3			X		X				Abandon capped lateral.
			VCP	142.7	X			X					Reinstate lateral after main line CIPP is complete. Install end seal at main connection.
			VCP	189.8			X		X				Abandon capped lateral.
			VCP	192.4	X			X					Reinstate lateral after main line CIPP is complete. Install end seal at main connection.
			VCP	239.9		X		XX					Contractor to verify if defective lateral is active. Reinstate if active; Abandon if defective cap.
C201	ML-16	1833_1832	VCP	35.7			X		X			Abandon capped lateral.	
			VCP	38.1	X			X				Reinstate lateral after main line CIPP is complete. Install end seal at main connection.	
			VCP	101.4			X		X				Abandon capped lateral.
			VCP	104.2	X			X					Reinstate lateral after main line CIPP is complete. Install end seal at main connection.
			VCP	154.1			X		X				Abandon capped lateral.
			VCP	156.5		X		XX					Contractor to verify if defective lateral is active. Reinstate if active; Abandon if defective cap.
			VCP	206.2			X		X				Abandon capped lateral.
VCP	208.9	X			X					Reinstate lateral after main line CIPP is complete. Install end seal at main connection.			
C201	ML-17	1832_1831	VCP	61.8			X		X			Abandon capped lateral.	
			VCP	64.4			X		X			Abandon capped lateral.	
			VCP	132.5			X		X				Abandon capped lateral.
			VCP	202.9			X		X				Abandon capped lateral.
VCP	205.4	X			X					Reinstate lateral after main line CIPP is complete. Install end seal at main connection.			

Sheet Number	Pipe ID	Facility ID (USMH_DSMH)	Lateral Material	Lateral Distance from USMH	Active	Defective	Capped	End Seal	Abandon	No Work	Rehab Recommendations		
C201	ML-18	1831_1830	VCP	37.5			X		X			Abandon capped lateral.	
			VCP	40.2		X		XX				Contractor to verify if defective lateral is active. Reinstate if active; Abandon if defective cap.	
			VCP	97.0			X		X				Abandon capped lateral.
			VCP	97.6	X			X					Reinstate lateral after main line CIPP is complete. Install end seal at main connection.
			VCP	99.5		X		XX					Contractor to verify if defective lateral is active. Reinstate if active; Abandon if defective cap.
			VCP	166.3			X						Abandon capped lateral.
			VCP	169.1			X		X				Abandon capped lateral.
			VCP	215.2			X		X				Abandon capped lateral.
			VCP	218.0		X		XX					Contractor to verify if defective lateral is active. Reinstate if active; Abandon if defective cap.
			VCP	46.0			X		X		X		Abandon capped lateral.
			VCP	48.6			X		X		X		Abandon capped lateral.
C201/C202	ML-19	1830_1829	VCP	118.1			X		X			Abandon capped lateral.	
			VCP	120.5			X		X			Abandon capped lateral.	
			VCP	164.0			X		X				Abandon capped lateral.
			VCP	166.5		X		XX					Contractor to verify if defective lateral is active. Reinstate if active; Abandon if defective cap.
			VCP	215.4		X		X		X			Abandon capped lateral.
			VCP	218.0	X			X					Reinstate lateral after main line CIPP is complete. Install end seal at main connection.
			ZZZ	246.8		X		XX					Contractor to verify if defective lateral is active. Reinstate if active; Abandon if defective cap.
			VCP	267.0			X		X		X		Abandon capped lateral.
			VCP	269.5			X		X		X		Abandon capped lateral.
			VCP	290.6		X		XX					Contractor to verify if defective lateral is active. Reinstate if active; Abandon if defective cap.
			VCP	314.5	X			X					Reinstate lateral after main line CIPP is complete. Install end seal at main connection.
			VCP	316.6	X			X					Reinstate lateral after main line CIPP is complete. Install end seal at main connection.
			VCP	332.1	X			X					Reinstate lateral after main line CIPP is complete. Install end seal at main connection.
VCP	388.6			X		X		X		Abandon capped lateral.			
VCP	391.2	X			X					Reinstate lateral after main line CIPP is complete. Install end seal at main connection.			
VCP	442.5			X		X		X		Abandon capped lateral.			
VCP	445.4			X		X		X		Abandon capped lateral.			

Project:
CITY OF GEORGETOWN
2377 MAYBANK DRIVE
GEORGETOWN, SC 29440



SANITARY SEWER and
MANHOLE SURVEY
S. FRASER STREET
PROJECT #1818

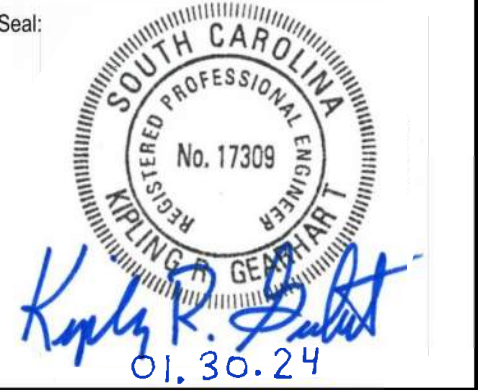


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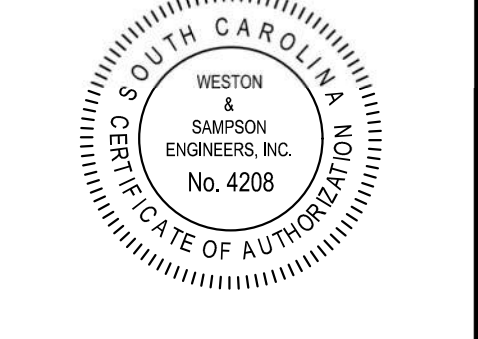
Subconsultants:

Revisions:

No.	Date	Description
1	1/31/24	ISSUED FOR REBID



COA:



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Scale: N.T.S.

Date: SEPTEMBER 2023

Drawn By: JAP

Reviewed By: NTS/JTB

Approved By: KG

W&S Project No.: ENG23-0476

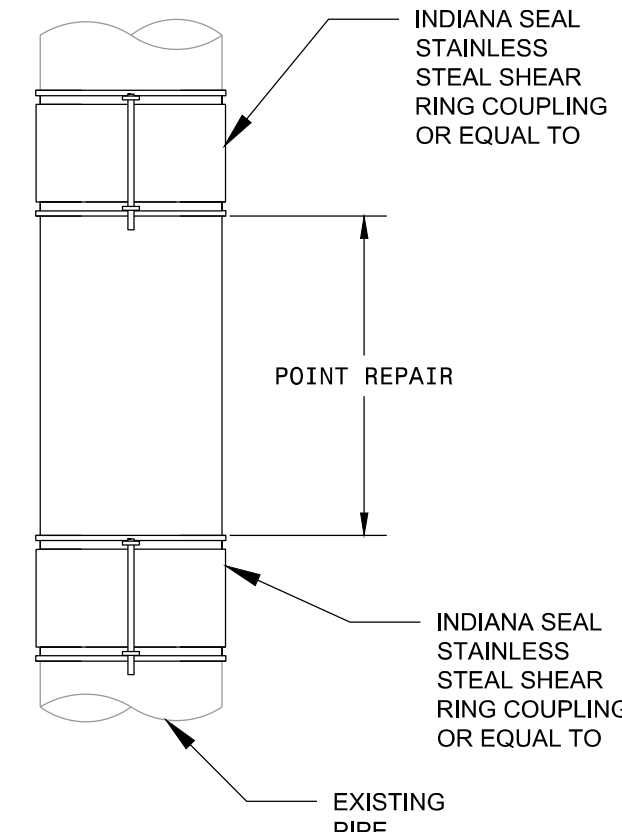
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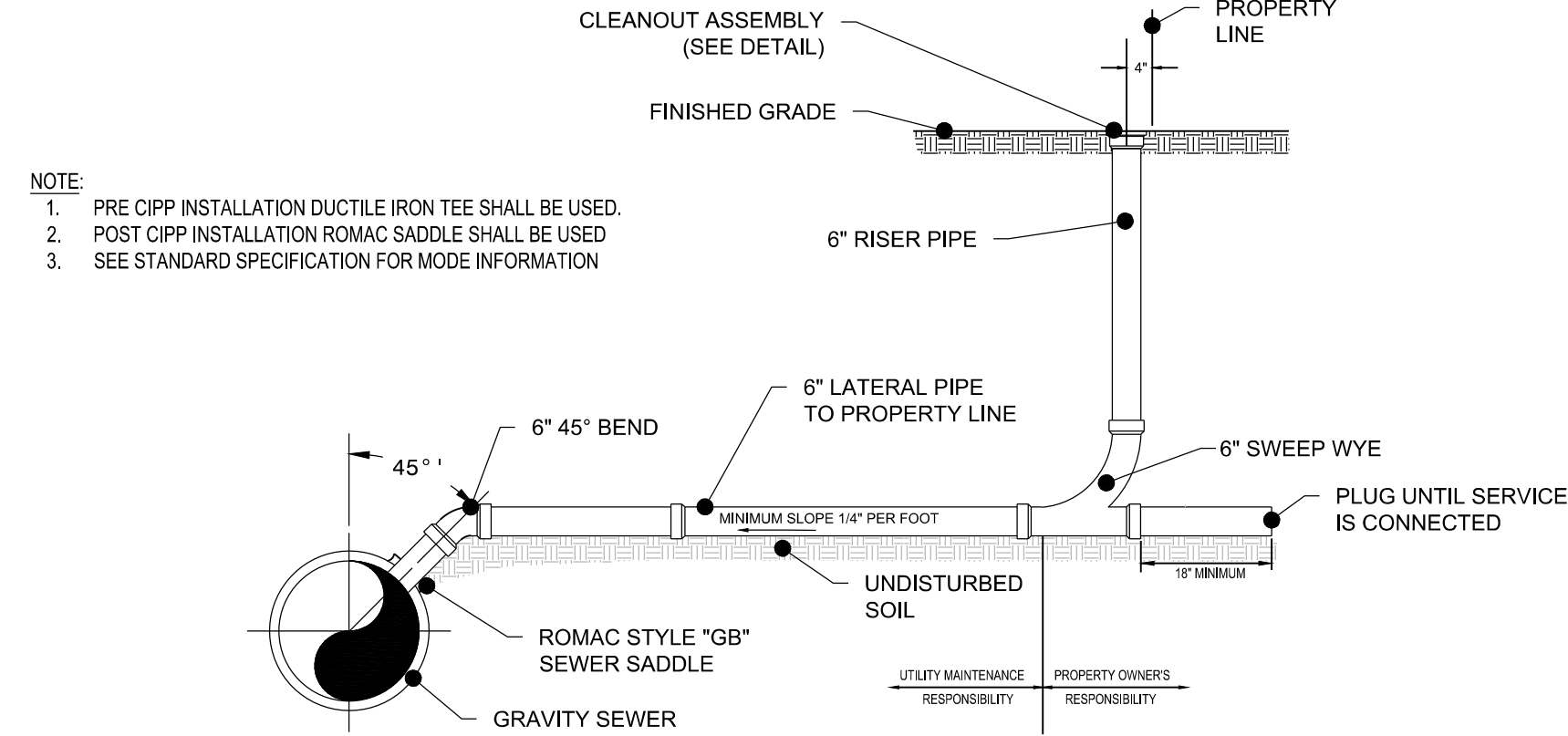
LATERAL REHAB TABLE

Sheet Number:

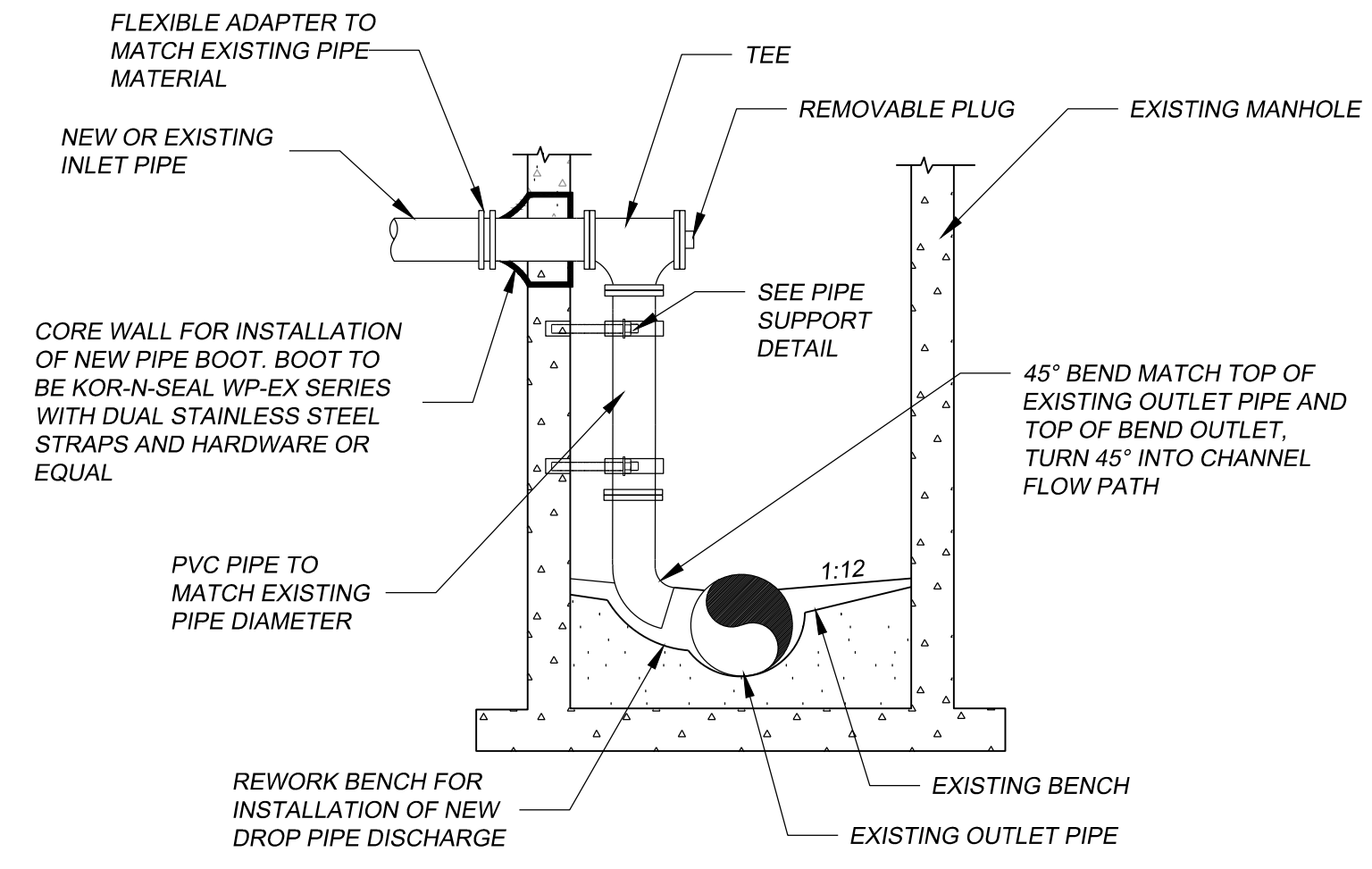
C302



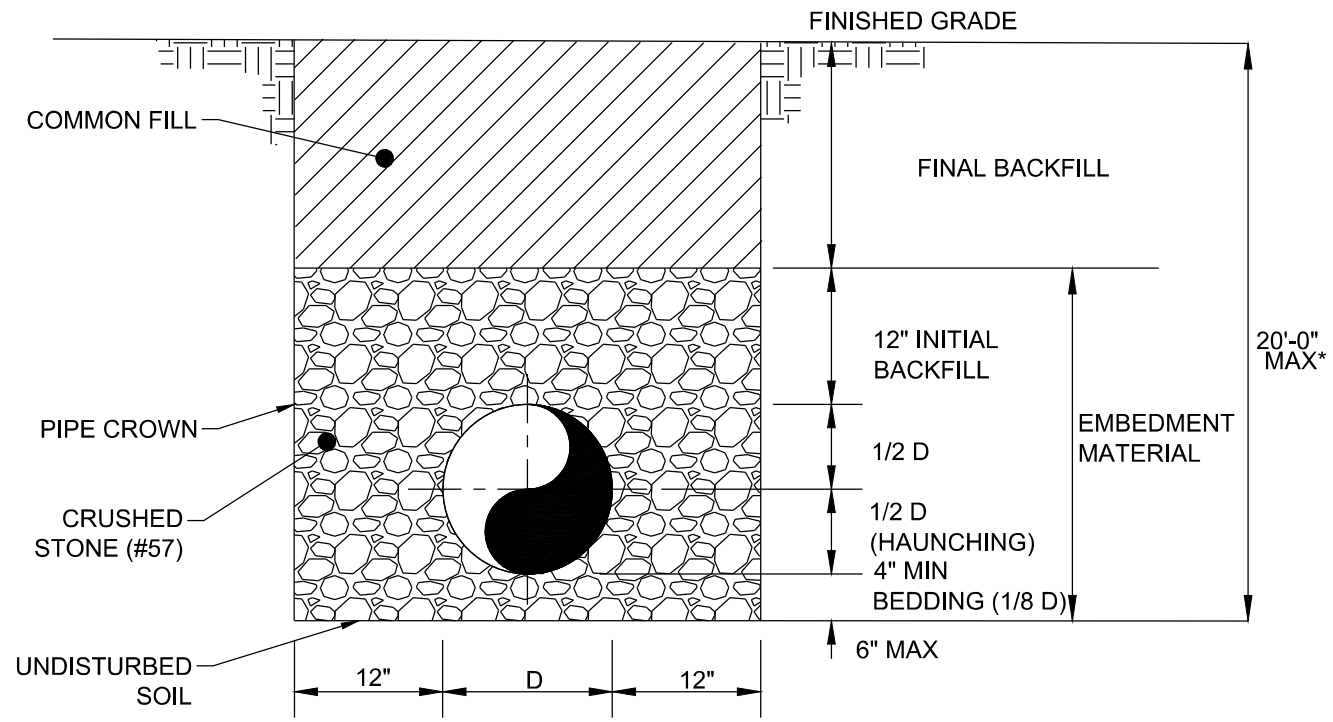
**TEMPORARY POINT REPAIR
FOR GRAVITY SEWER LINE**



**TAPPING SADDLE SANITARY SEWER LATERAL CONNECTION
TO EXISTING MAIN**

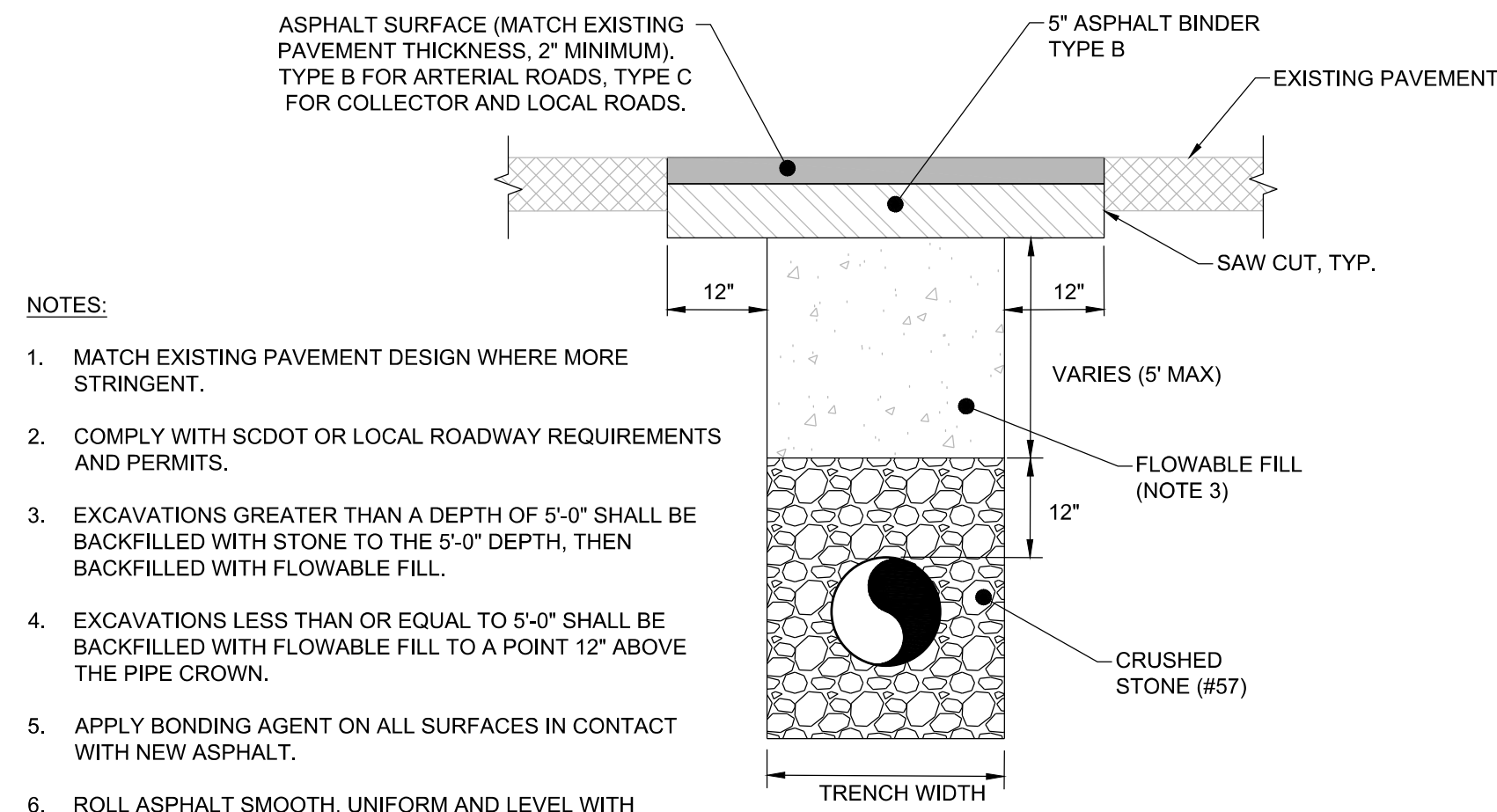


INSIDE DROP MANHOLE CONNECTION DETAIL



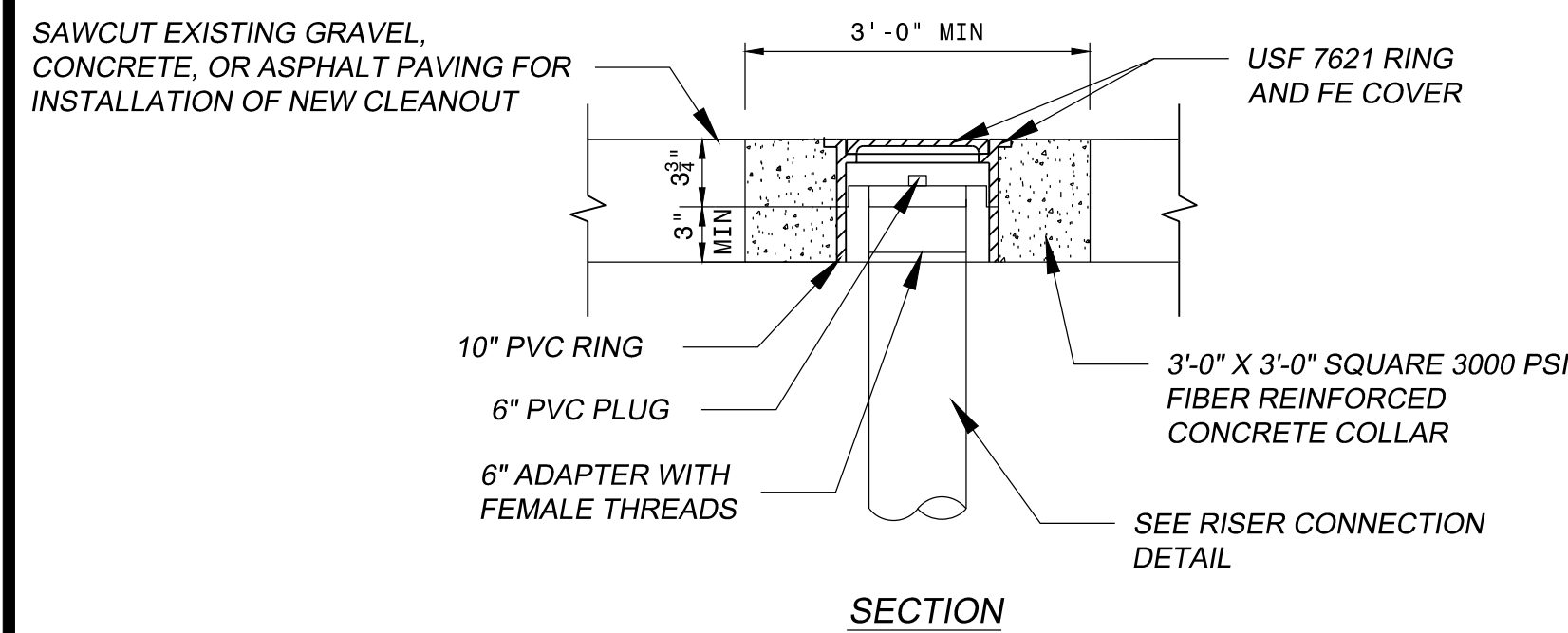
*NOTE: SPECIFIC DESIGN IS REQUIRED IF PIPE TRENCH DEPTH EXCEEDS 20'-0"

GRAVITY SEWER PIPE BEDDING

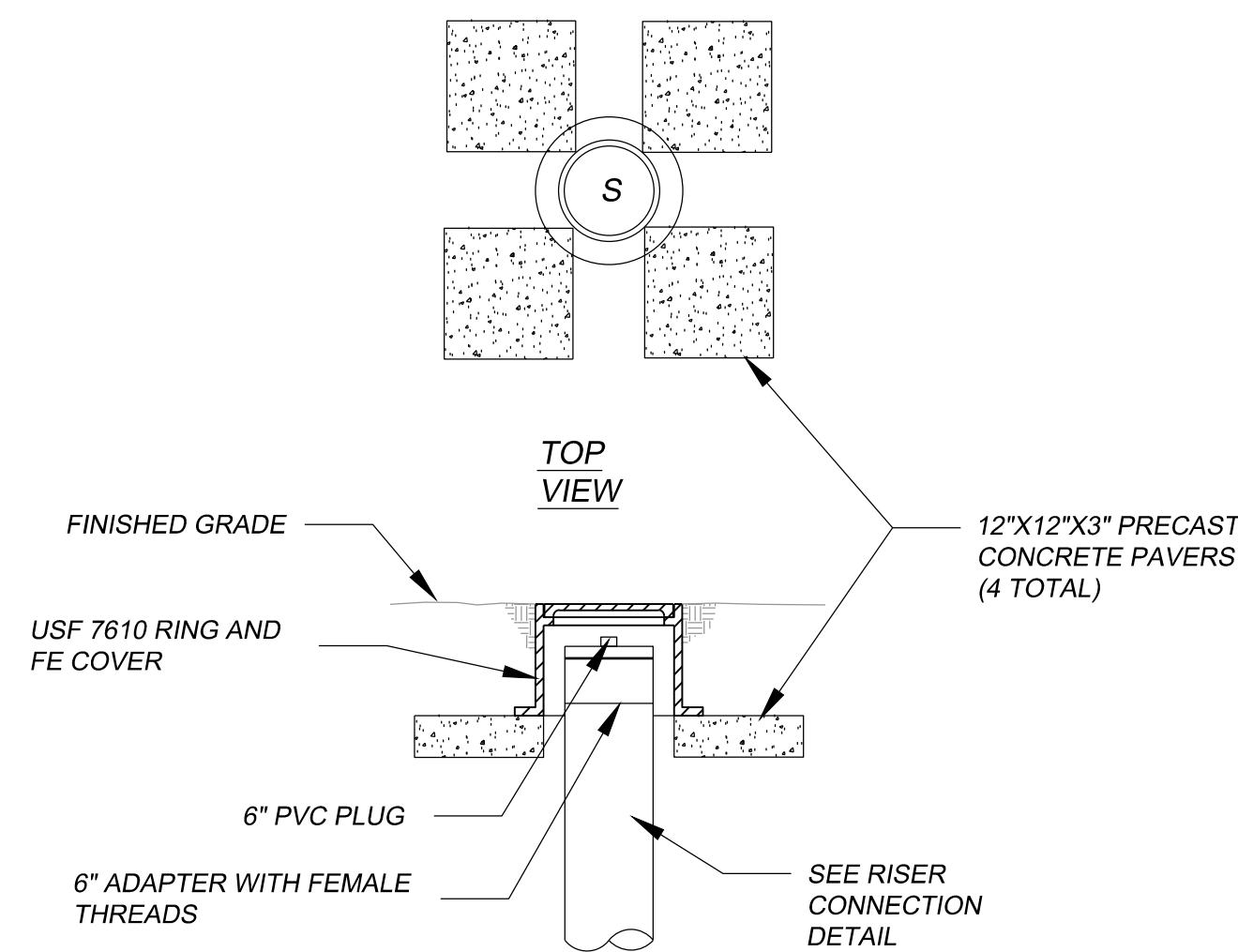


- NOTES:**
- MATCH EXISTING PAVEMENT DESIGN WHERE MORE STRINGENT.
 - COMPLY WITH SCDOT OR LOCAL ROADWAY REQUIREMENTS AND PERMITS.
 - EXCAVATIONS GREATER THAN A DEPTH OF 5'-0" SHALL BE BACKFILLED WITH STONE TO THE 5'-0" DEPTH, THEN BACKFILLED WITH FLOWABLE FILL.
 - EXCAVATIONS LESS THAN OR EQUAL TO 5'-0" SHALL BE BACKFILLED WITH FLOWABLE FILL TO A POINT 12" ABOVE THE PIPE CROWN.
 - APPLY BONDING AGENT ON ALL SURFACES IN CONTACT WITH NEW ASPHALT.
 - ROLL ASPHALT SMOOTH, UNIFORM AND LEVEL WITH EXISTING PAVEMENT.
 - ENSURE EDGE OF TRENCH BEYOND SAW CUT SURFACE IS NOT UNDERMINED.

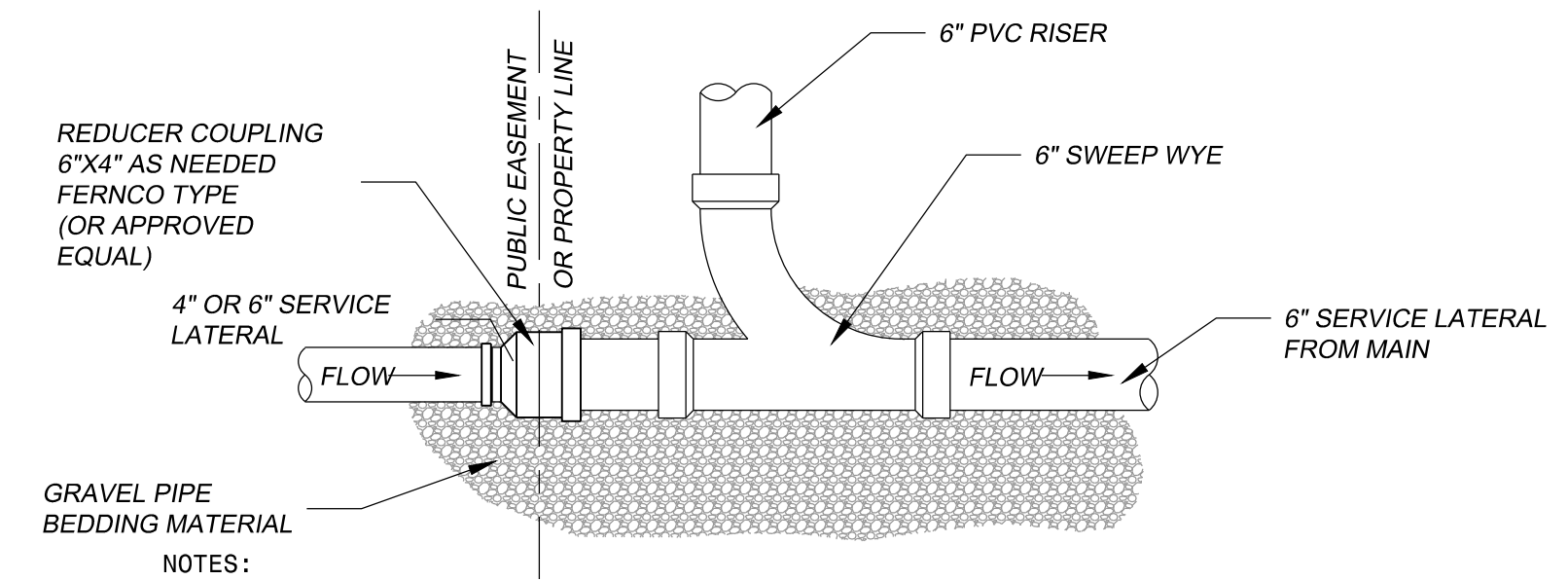
**SCDOT OR EQUAL ASPHALT PAVEMENT
REPLACEMENT IN ALL ROADWAYS**



**CLEANOUT ASSEMBLY DETAIL FOR
SIDEWALK OR PAVED AREA INSTALLATION**



**CLEANOUT ASSEMBLY DETAIL
FOR GRASSED AREA INSTALLATION**



- NOTES:**
- ALL FITTINGS AND LINES TO BE SCHEDULE 40 PVC, SOLVENT WELD (SDR-35).
 - SEE CITY SPECIFICATION 02761 FOR MORE DETAIL.
 - REPAIRS ON CLEANOUTS LOCATED WITHIN THE CITY RIGHT OF WAY SHALL INCLUDE BRINGING CLEANOUT CAP TO GRADE.
 - PROVIDE ADDITIONAL BENDS AS NEEDED TO AVOID CONFLICTS AND MAKE CONNECTION.
 - PROVIDE ALL ADAPTERS AND COUPLINGS REQUIRED TO CONNECT TO EXISTING SERVICE LATERAL, REGARDLESS OF SIZE OR MATERIAL.
 - FOR NEW SERVICE LATERAL INSTALLATION FROM MAIN LINE PROVIDE A MINIMUM OF 0.01 FT/FT SLOPE UNLESS OTHERWISE REQUIRED BY STATE OR LOCAL CODES.
 - COMPLY WITH ALL PERTINENT SECTIONS OF THE CITY OF COLUMBIA STANDARD SPECIFICATIONS.

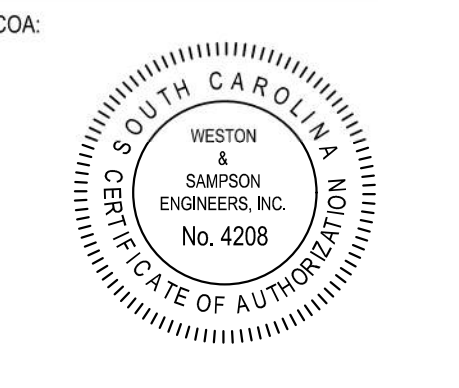
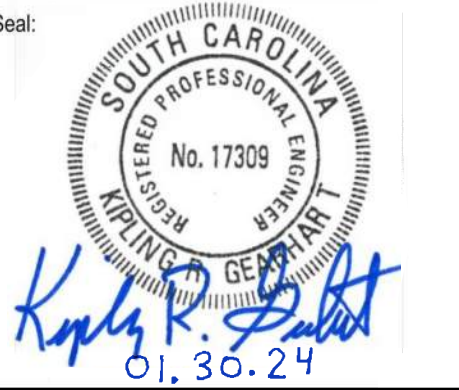
RISER CONNECTION DETAIL



Subconsultants:

Revisions:

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Scale: N.T.S.

Date: SEPTEMBER 2023

Drawn By: JAP

Reviewed By: NTS/JTB

Approved By: KG

W&S Project No.: ENG23-0476

W&S File No.:

Drawing Title:

CONSTRUCTION DETAILS

Sheet Number:

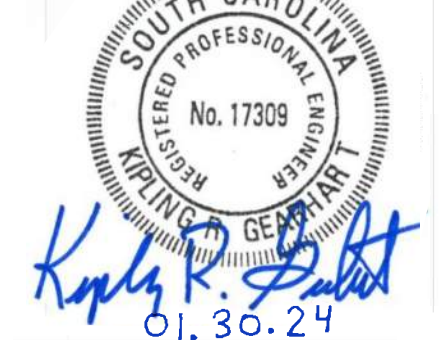
C400

Subconsultants:

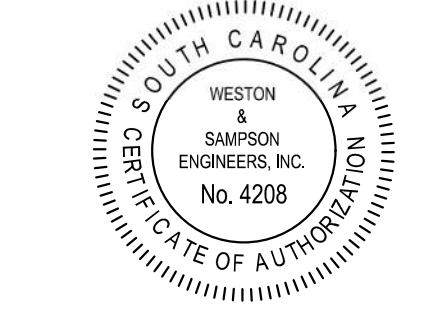
Revisions:

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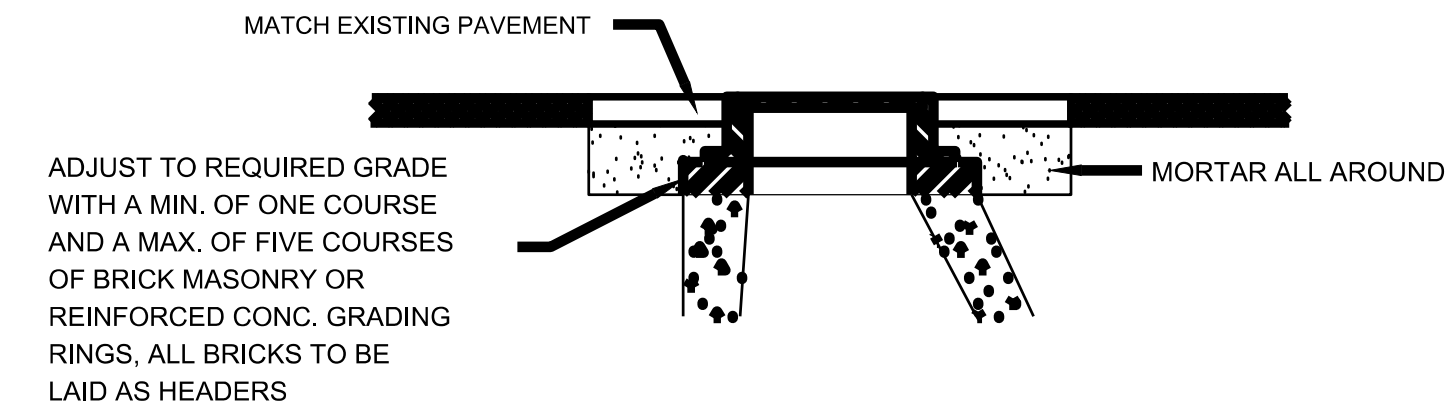
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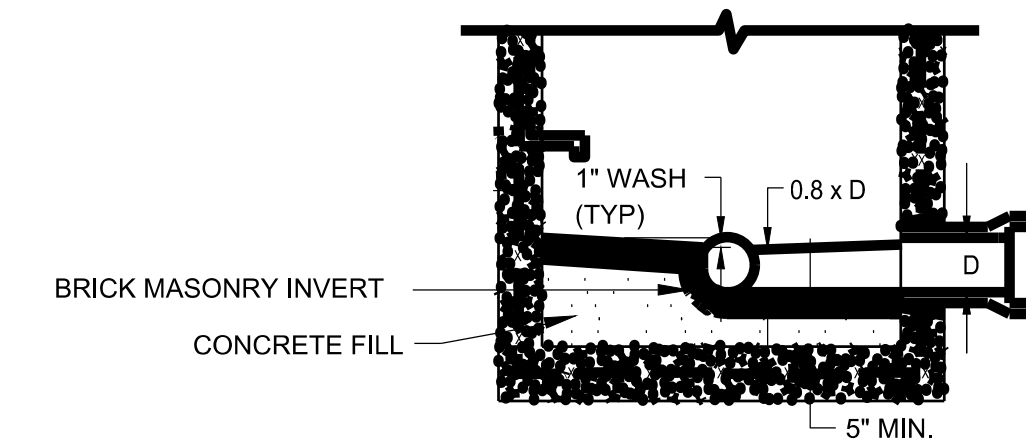
CONSTRUCTION DETAILS

Sheet Number:

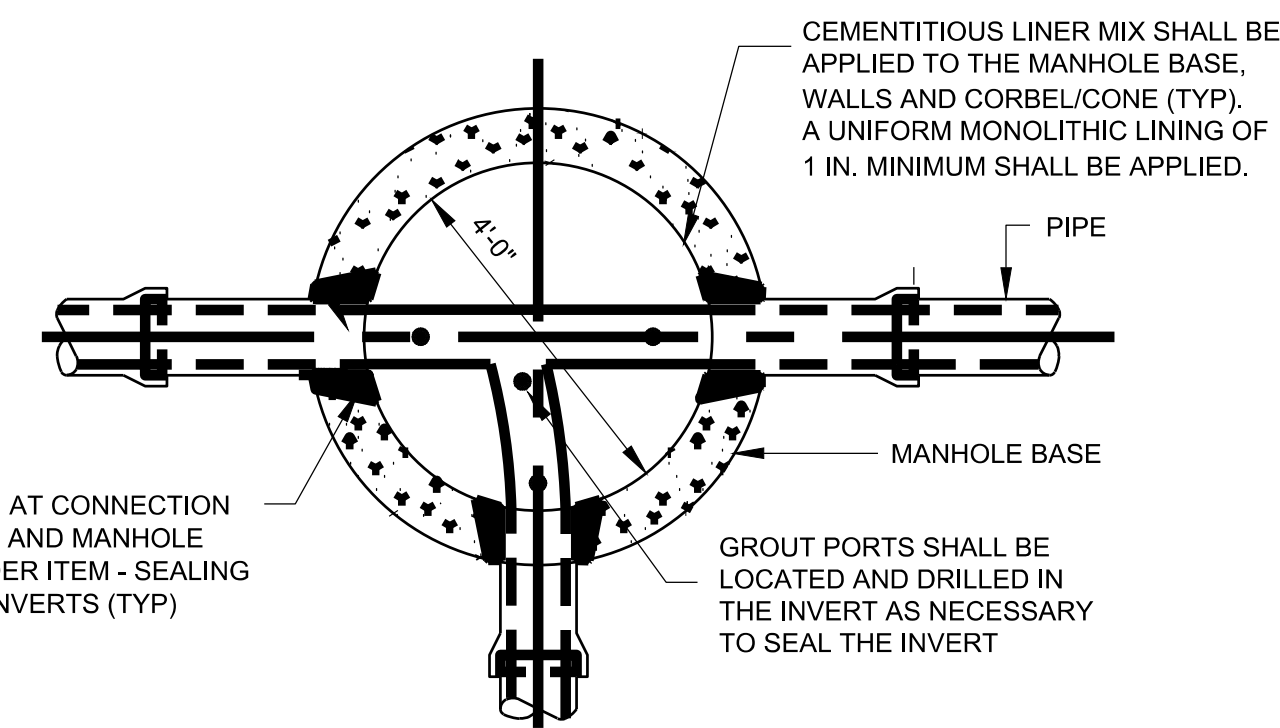
C401



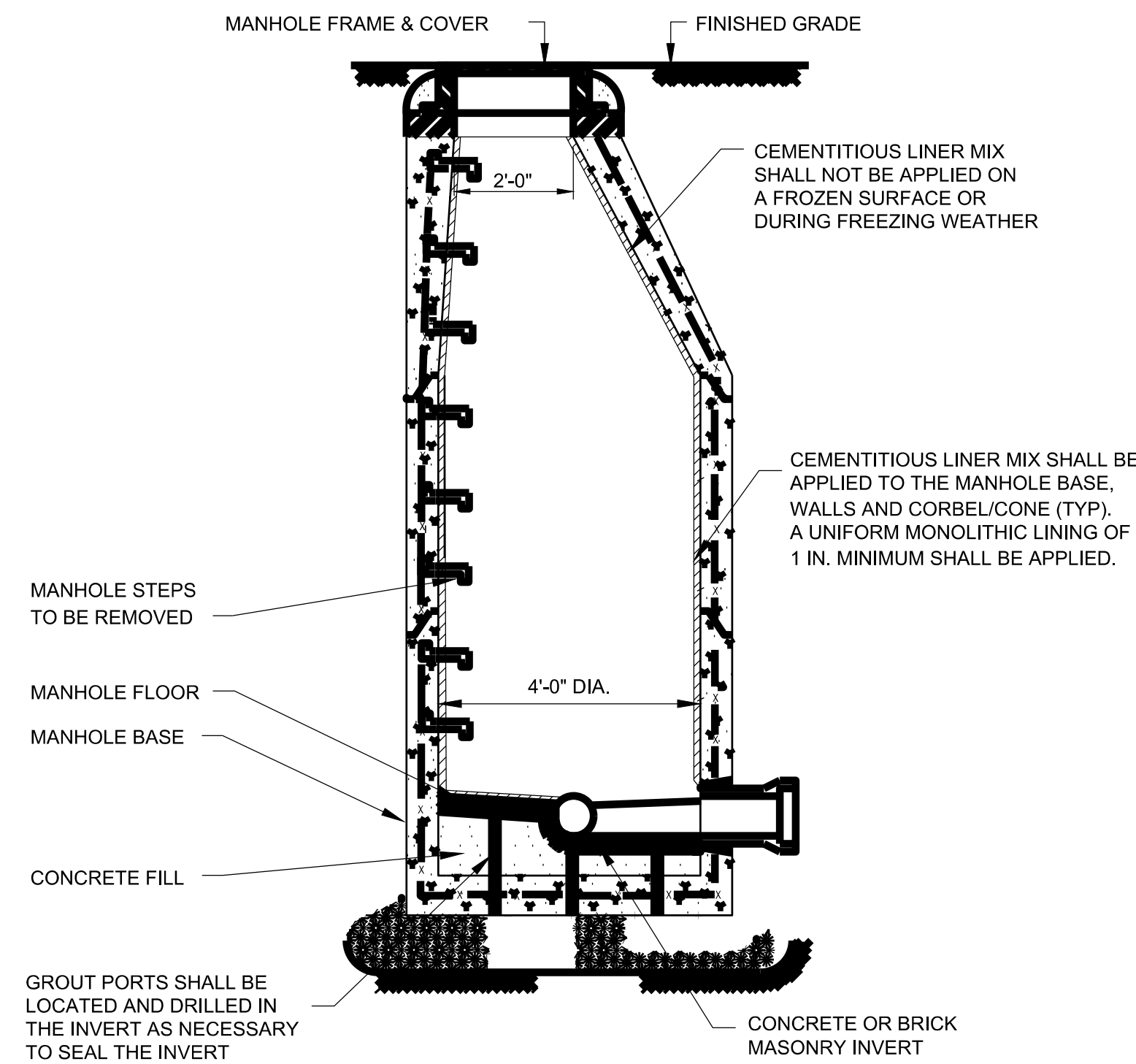
FURNISH AND INSTALL MANHOLE FRAME AND COVER
PAVEMENT REPLACEMENT DETAIL



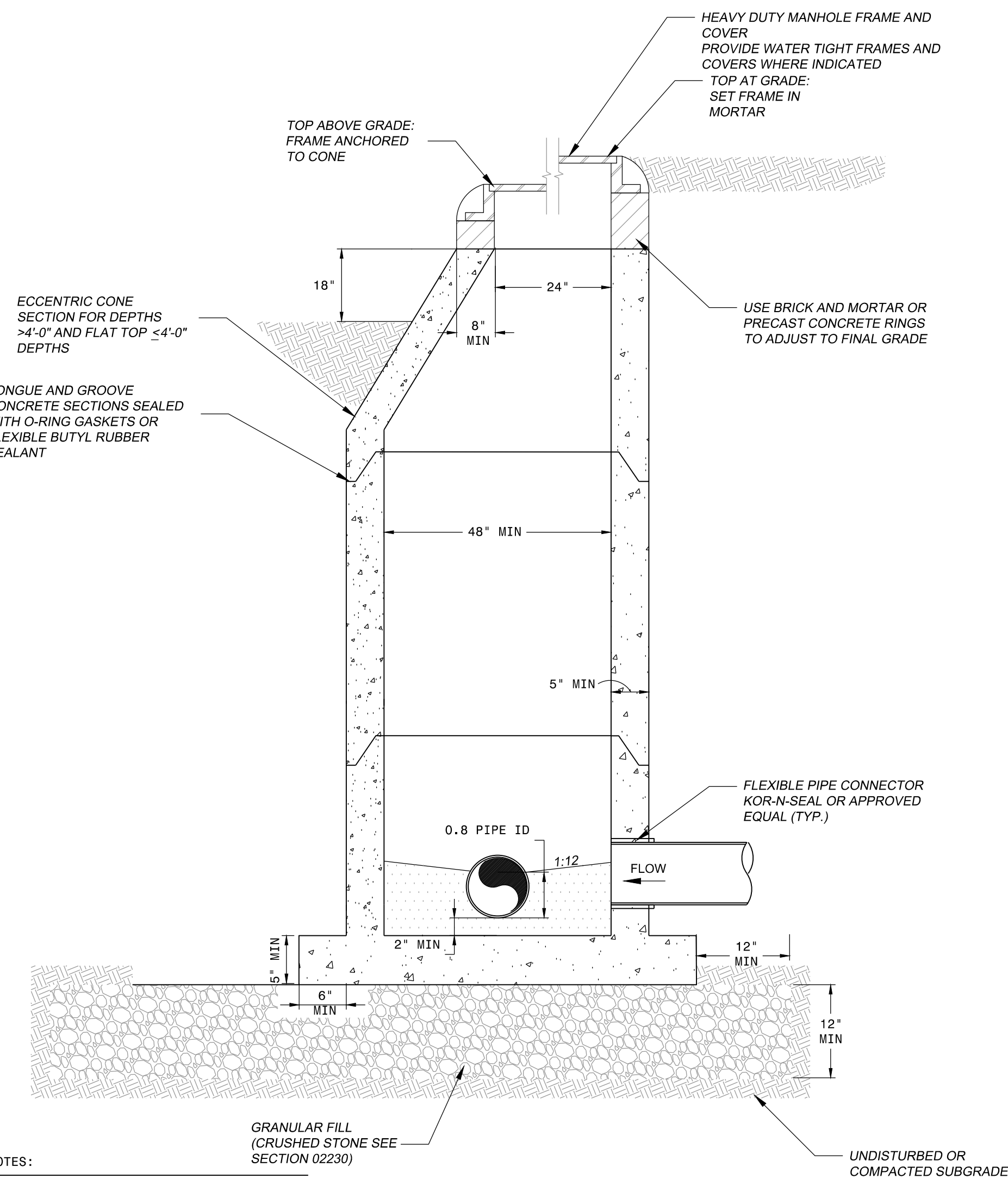
SEWER MANHOLE
BENCH AND INVERT DETAIL



4'-0" DIA. MANHOLE SEALING PLAN



BRICK, BLOCK OR CONCRETE MANHOLE SEALING DETAIL



PRECAST CONCRETE MANHOLE DETAIL

NOTES:

- REFER TO SECTION 02605 FOR MORE INFORMATION.
- PROVIDE 7" EXTERIOR JOINT COLLAR ON ALL JOINTS. PROVIDE MACWRAP BY MAR-MAC.

REFERENCES

NATIONAL DOCUMENTS

SCDOT DOCUMENTS

RELATED DRAWINGS & KEYWORDS

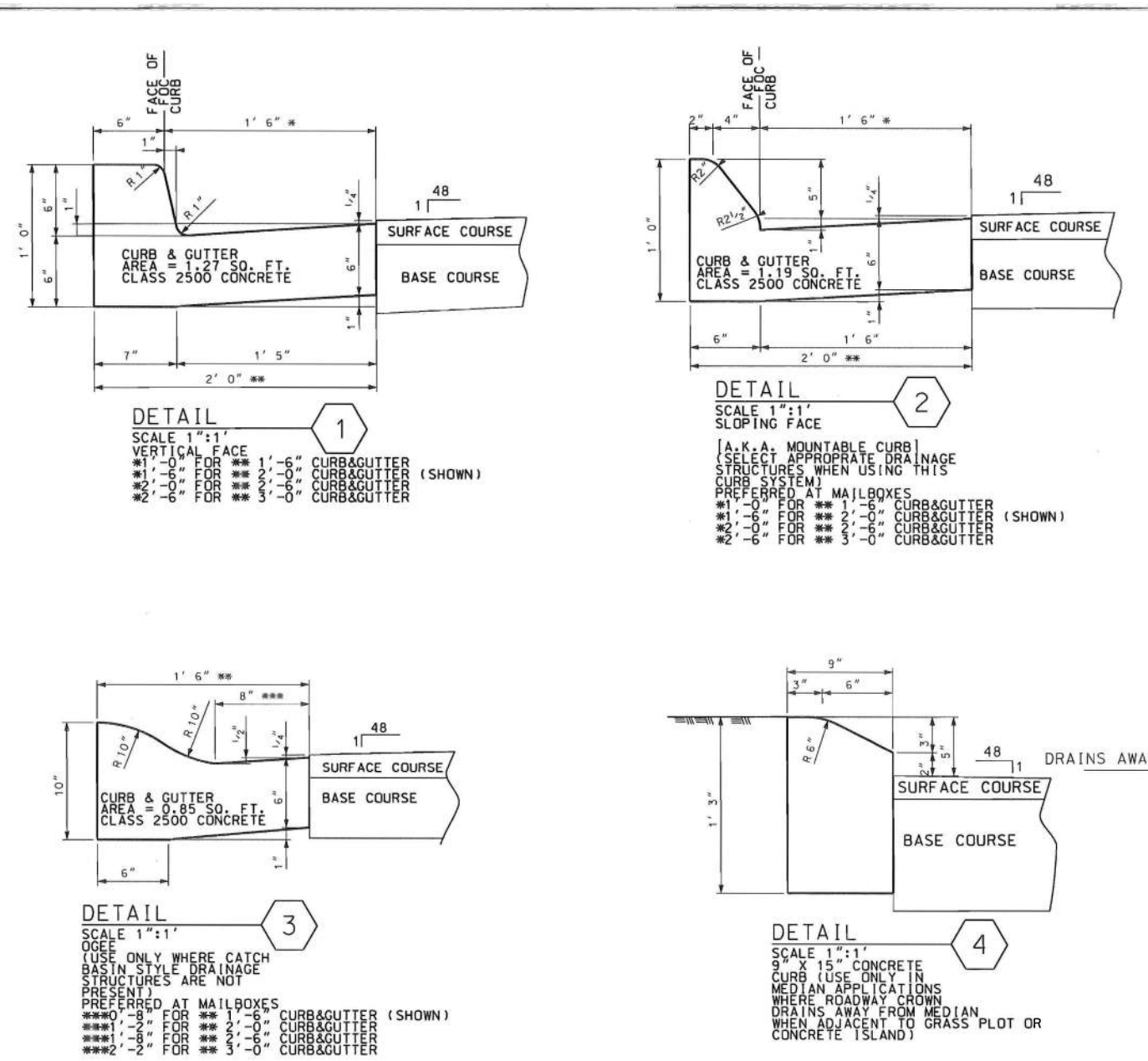
150-205-00, 720-905-02

PRECONSTRUCTION SUPPORT ENGINEER

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
No. 21242
JAMES W. KENDALL, JR.

Signature: *James W. Kendall, Jr.*
Date: AUGUST 27, 2012

720-105-01
EFFECTIVE LETTING DATE: JAN. 2015



NOTES:

- USE CONCRETE CURB AND GUTTER WITH VERTICAL FACE UNLESS OTHERWISE NOTED.
- USE MINIMUM CLASS 2500 CONCRETE.
- USE 3" TRANSITION AT END OF PANEL ON INTERSECTING STREETS AND WHERE CURB IS 6 FEET OR GREATER FROM MAINLINE TRAVEL LANE.
- USE 10" TRANSITION WHERE CURB IS LESS THAN 6 FEET FROM MAINLINE TRAVEL LANE.
- INCLUDE COST OF WORK TO CONSTRUCT TRANSITIONS IN THE COST PER LF OF CURB AND GUTTER.
- DEVELOP GUTTER SLOPE ON HIGH SIDE OF SUPERELEVATION AS SHOWN ON STANDARD DRAWING 150-205-00, EXCEPT ON GEEB CURB & GUTTER.
- USE DETECTABLE WARNINGS AS REQUIRED ON STANDARD DRAWING 720-905-01.
- WHEN MAILBOXES ARE PRESENT, USE APPROPRIATE CURB TYPE. INSTALL MAILBOXES BEHIND CURB OR SIDEWALK AS SHOWN ON STANDARD DRAWING 203-905-00.
- PAY ITEMS MAY NOT BE COMPLETE LIST OF PAY ITEMS:
FOR CURB & GUTTER:
720310 CONCRETE CURB AND GUTTER (1'-0" VERTICAL FACE)
720311 CONCRETE CURB AND GUTTER (1'-0" VERTICAL FACE)
720312 CONCRETE CURB AND GUTTER (1'-0" VERTICAL FACE)
720313 CONCRETE CURB AND GUTTER (1'-0" VERTICAL FACE)
720314 CONCRETE CURB AND GUTTER (1'-0" VERTICAL FACE)
720315 CONCRETE CURB AND GUTTER (1'-0" VERTICAL FACE)
720316 CONCRETE CURB AND GUTTER (1'-0" VERTICAL FACE)
720317 CONCRETE CURB AND GUTTER (1'-0" VERTICAL FACE)
720318 CONCRETE CURB AND GUTTER (1'-0" VERTICAL FACE)
720319 CONCRETE CURB AND GUTTER (1'-0" VERTICAL FACE)
720320 CONCRETE CURB AND GUTTER (1'-0" VERTICAL FACE)
720321 CONCRETE CURB AND GUTTER (1'-0" VERTICAL FACE)
720322 CONCRETE CURB AND GUTTER (1'-0" VERTICAL FACE)
720323 CONCRETE CURB AND GUTTER (1'-0" VERTICAL FACE)
720324 CONCRETE CURB AND GUTTER (1'-0" VERTICAL FACE)
720325 CONCRETE CURB AND GUTTER (1'-0" VERTICAL FACE)
720326 CONCRETE CURB AND GUTTER (1'-0" VERTICAL FACE)
720327 CONCRETE CURB AND GUTTER (1'-0" VERTICAL FACE)
720328 CONCRETE CURB AND GUTTER (1'-0" VERTICAL FACE)
720329 CONCRETE CURB AND GUTTER (1'-0" VERTICAL FACE)
720330 CONCRETE CURB AND GUTTER (1'-0" VERTICAL FACE)
720331 CONCRETE CURB AND GUTTER (1'-0" VERTICAL FACE)
720332 CONCRETE CURB AND GUTTER (1'-0" VERTICAL FACE)
720333 CONCRETE CURB AND GUTTER (1'-0" VERTICAL FACE)
720334 CONCRETE CURB AND GUTTER (1'-0" VERTICAL FACE)
720335 CONCRETE CURB AND GUTTER (1'-0" VERTICAL FACE)
FOR CONCRETE MEDIAN:
720100 CONCRETE CURB (19" x 15")
720200 CONCRETE MEDIAN
720510 CONCRETE MEDIAN OVERLAY

REFERENCES

NATIONAL DOCUMENTS

SCDOT DOCUMENTS

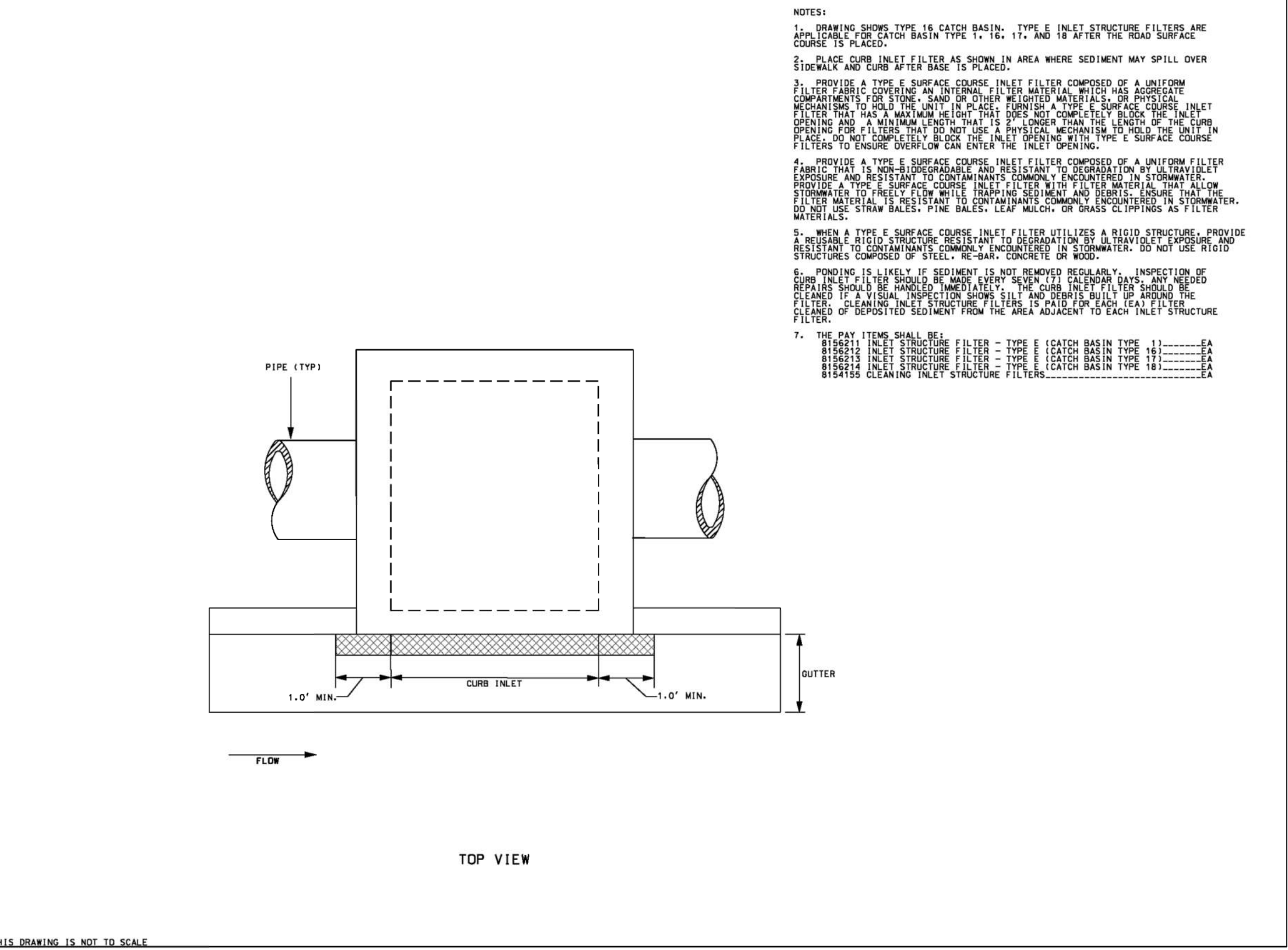
815-015-0
DPL 58

PRECONSTRUCTION SUPPORT ENGINEER

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
No. 21242
JAMES W. KENDALL, JR.

Signature: *James W. Kendall, Jr.*
Date: 11/18/2016

815-005-00
EFFECTIVE LETTING DATE: JUL 2011 THIS DRAWING IS NOT TO SCALE



NOTES:

- DRAWING SHOWS TYPE A, B, CATCH BASIN, TYPE E INLET STRUCTURE FILTERS ARE APPLICABLE FOR CATCH BASIN TYPES 1, 1A, 11, AND 18 AFTER THE ROAD SURFACE COURSE IS PLACED.
- PLACE CURB INLET FILTER AS SHOWN IN AREA WHERE SEDIMENT MAY SPILL OVER SIDEWALK AND CURB AFTER BASE IS PLACED.
- PROVIDE A TYPE E SURFACE COURSE INLET FILTER COMPOSED OF A UNIFORM FILTER FABRIC COVERING AN INTERNAL FILTER MATERIAL WHICH HAS ADEQUATE COMPARTMENTS FOR STONE, SAND OR OTHER WEIGHTED MATERIALS OR PROVIDE AN INLET STRUCTURE WITH A MAXIMUM HEIGHT THAT DOES NOT COMPLETELY BLOCK THE INLET OPENING AND A MINIMUM LENGTH THAT IS 2' LONGER THAN THE LENGTH OF THE CURB OPENING FOR FILTERS THAT DO NOT USE A PHYSICAL MECHANISM TO HOLD THE GATE IN PLACE. DO NOT COMPLETELY BLOCK THE INLET OPENING WITH TYPE E SURFACE COURSE FILTERS TO ENSURE OVERFLOW CAN ENTER THE INLET OPENING.
- PROVIDE A TYPE E SURFACE COURSE INLET FILTER UTILIZES A UNIFORM FILTER FABRIC THAT IS NON-SUPERABSORBENT AND RESISTANT TO DEGRADATION BY UV RADIATION EXPOSURE AND RESISTANT TO CONTAMINANTS COMMONLY ENCOUNTERED IN STORMWATER. PROVIDE A TYPE E SURFACE COURSE INLET FILTER WITH FILTER MATERIAL THAT 5/16" IN STORMWATER TO FREELY FLOW WHILE TRAPPING SEDIMENT AND DEBRIS. ENSURE THAT THE FILTER MATERIAL IS RESISTANT TO CONTAMINANTS COMMONLY ENCOUNTERED IN STORMWATER. DO NOT USE STRAW BALES, PINE BALES, LEAF MULCH, OR GRASS CLIPPINGS AS FILTER MATERIALS.
- WHEN A TYPE E SURFACE COURSE INLET FILTER UTILIZES A RIGID STRUCTURE, PROVIDE A RIGID RIGID STRUCTURE RESISTANT TO DEGRADATION BY UV RADIATION EXPOSURE AND RESISTANT TO CONTAMINANTS COMMONLY ENCOUNTERED IN STORMWATER. DO NOT USE RIGID STRUCTURES COMPOSED OF STEEL, REBAR, CONCRETE OR WOOD.
- PONDING IS LIKELY IF SEDIMENT IS NOT REMOVED REGULARLY. INSPECTION OF CURB INLET FILTER SHOULD BE MADE EVERY SEVEN (7) CLEANING DAYS. ANY NEEDED REPAIRS SHOULD BE HANDLED IMMEDIATELY. THE CURB INLET FILTER SHOULD BE CLEANED IF A VISUAL INSPECTION SHOWS SILL AND DEBRIS BUILD UP AROUND THE FILTER. CLEANING INLET STRUCTURE FILTERS IS PAID FOR EACH LEAF FILTER. CLEANING OF DEPOSITED SEDIMENT FROM THE AREA ADJACENT TO EACH INLET STRUCTURE FILTER.
- THE PAY ITEMS SHALL BE:
B186211 INLET STRUCTURE FILTER - TYPE (CATCH BASIN TYPE 1) -----EA
B186212 INLET STRUCTURE FILTER - TYPE (CATCH BASIN TYPE 1A) -----EA
B186213 INLET STRUCTURE FILTER - TYPE (CATCH BASIN TYPE 11) -----EA
B186214 INLET STRUCTURE FILTER - TYPE (CATCH BASIN TYPE 18) -----EA
B184155 CLEANING INLET STRUCTURE FILTERS (CATCH BASIN TYPE 1) -----EA

Project:
CITY OF GEORGETOWN
2377 MAYBANK DRIVE
GEORGETOWN, SC 29440

City of Georgetown
SOUTH CAROLINA

SANITARY SEWER and MANHOLE SURVEY
S. FRASER STREET
PROJECT #1818

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REFERENCES

NATIONAL DOCUMENTS

SCDOT DOCUMENTS

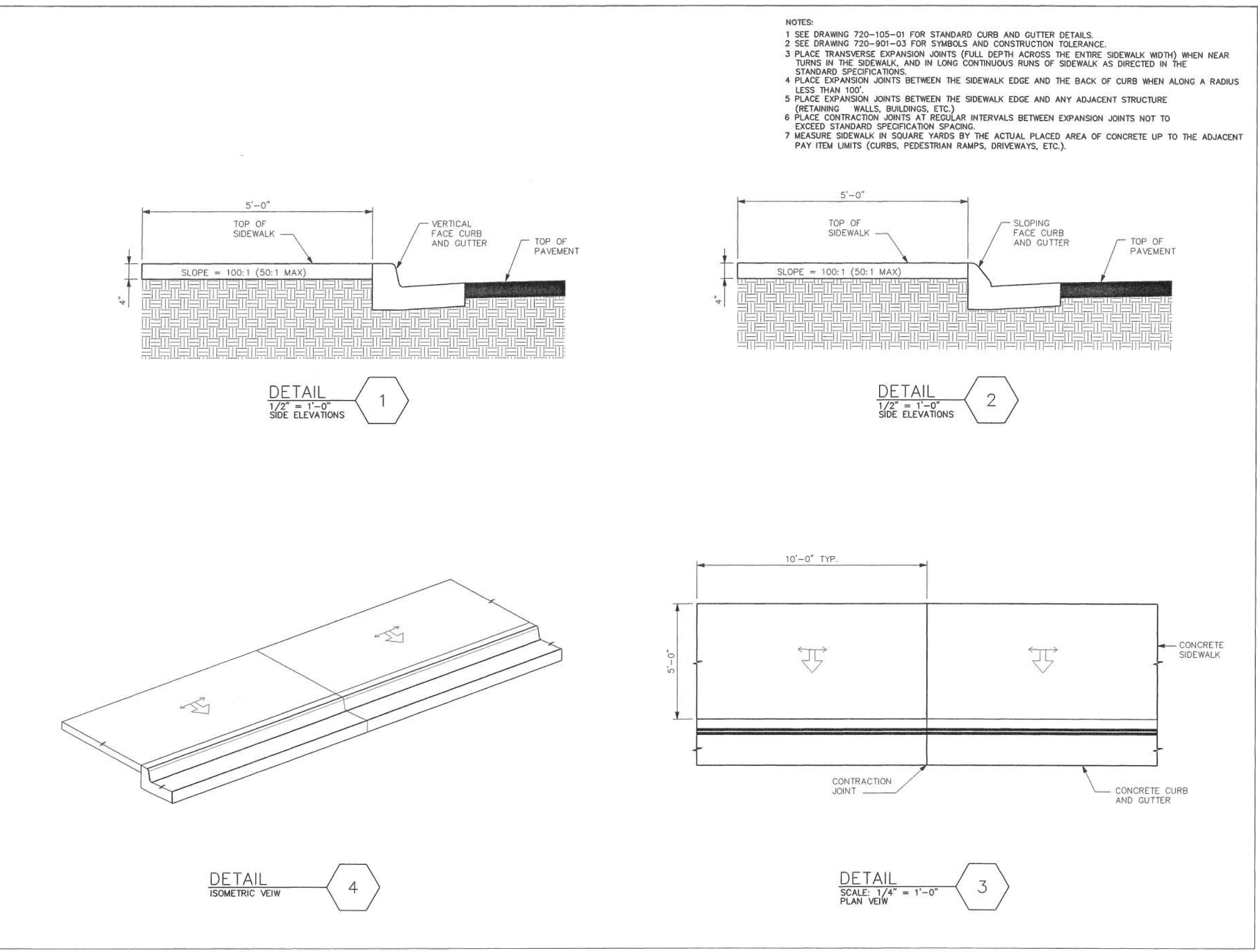
RELATED DRAWINGS & KEYWORDS

THIS DRAWING IS ONLY VALID FOR CONSTRUCTION WHEN SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF SOUTH CAROLINA. CHECK WWW.SCDOT.ORG FOR LATEST UPDATE.

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
No. 21242
JAMES W. KENDALL, JR.

Signature: *James W. Kendall, Jr.*
Date: 10/30/2015

720-150-00
EFFECTIVE LETTING DATE: JAN. 2015



NOTES:

- SEE DRAWING 720-105-01 FOR STANDARD CURB AND GUTTER DETAILS.
- SEE DRAWING 720-905-03 FOR SYMBOLS AND CONSTRUCTION TOLERANCE.
- PLACE TRANSVERSE EXPANSION JOINTS (FULL DEPTH ACROSS THE ENTIRE SIDEWALK WIDTH) WHEN NEAR CURBS IN THE SIDEWALK, AND IN LONG CONTINUOUS RUNS OF SIDEWALK AS DIRECTED IN THE STANDARD SPECIFICATIONS.
- PLACE EXPANSION JOINTS BETWEEN THE SIDEWALK EDGE AND THE BACK OF CURB WHEN ALONG A RADIUS LESS THAN 100'.
- PLACE EXPANSION JOINTS BETWEEN THE SIDEWALK EDGE AND ANY ADJACENT STRUCTURE (RETAINING WALLS, BUILDINGS, ETC.)
- PLACE CONTRACTION JOINTS AT REGULAR INTERVALS BETWEEN EXPANSION JOINTS NOT TO EXCEED STANDARD SPECIFICATION SPACING.
- MEASURE SIDEWALK IN SQUARE YARDS BY THE ACTUAL PLACED AREA OF CONCRETE UP TO THE ADJACENT PAY ITEM LIMITS (CURBS, FEEDSTRAIN RAMPS, DRIVEWAYS, ETC.).

Subconsultants:

Revisions:

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1	1/31/24	ISSUED FOR REBID

Seal:
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
No. 17309
Kathy R. Ebbert
01.30.24

COA:
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
WESTON & SAMPSON ENGINEERS, INC.
No. 4208

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Approved By: KG

W&S Project No.: ENG23-0476
W&S File No.:

Drawing Title:
SCDOT STANDARD DRAWINGS & EROSION AND SEDIMENT CONTROL DETAILS

Sheet Number:
C402

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S. FRASER STREET
PROJECT #1818



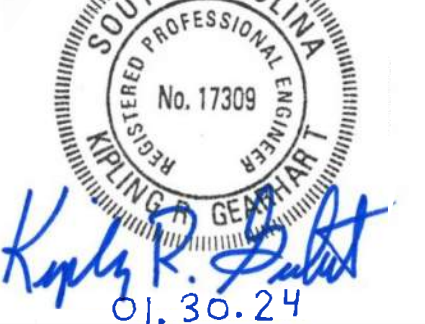
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W&S Project No.: ENG23-0476

W&S File No.:

Drawing Title:

SCDOT STANDARD
TRAFFIC CONTROL DETAILS

Sheet Number:

C403

