

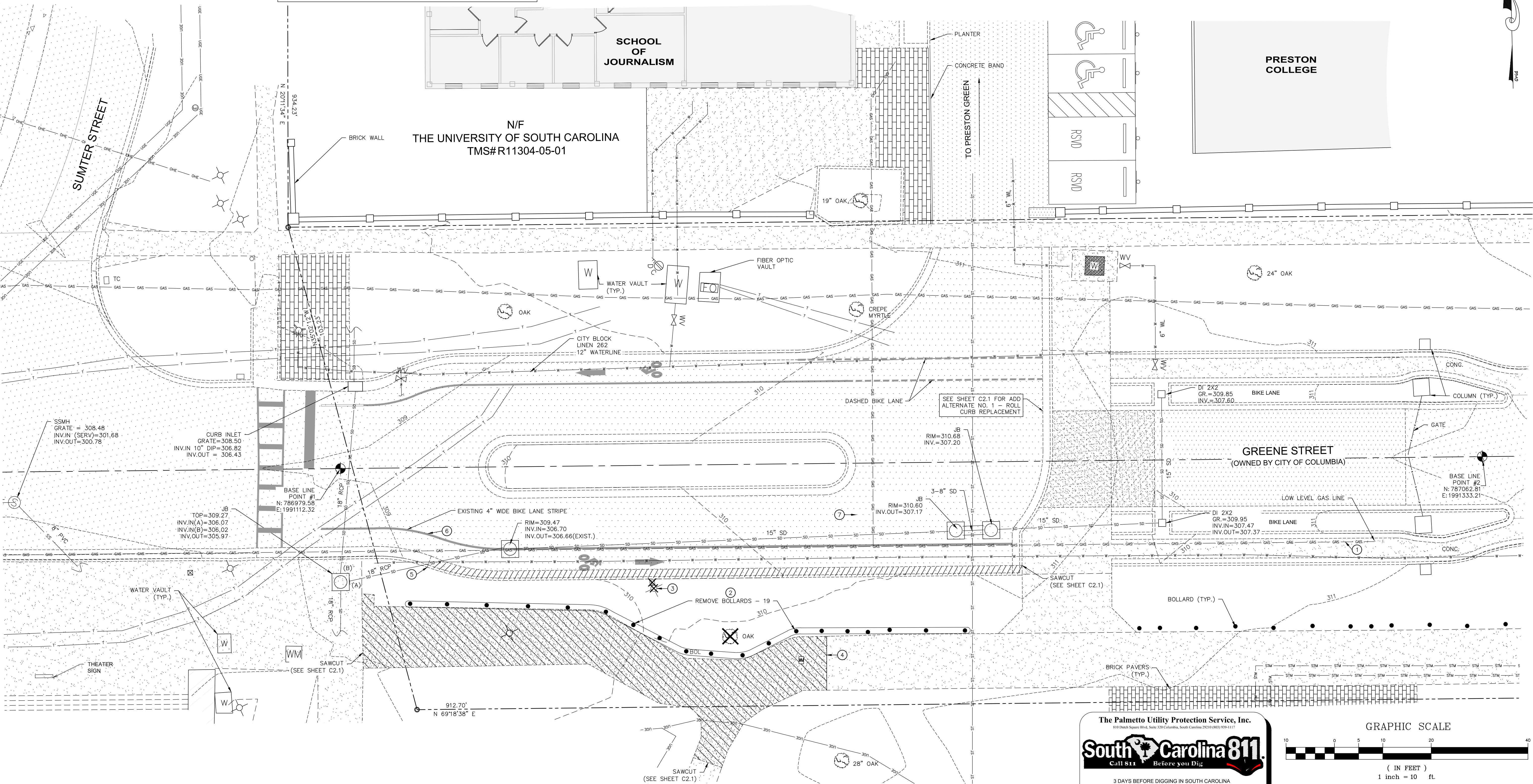
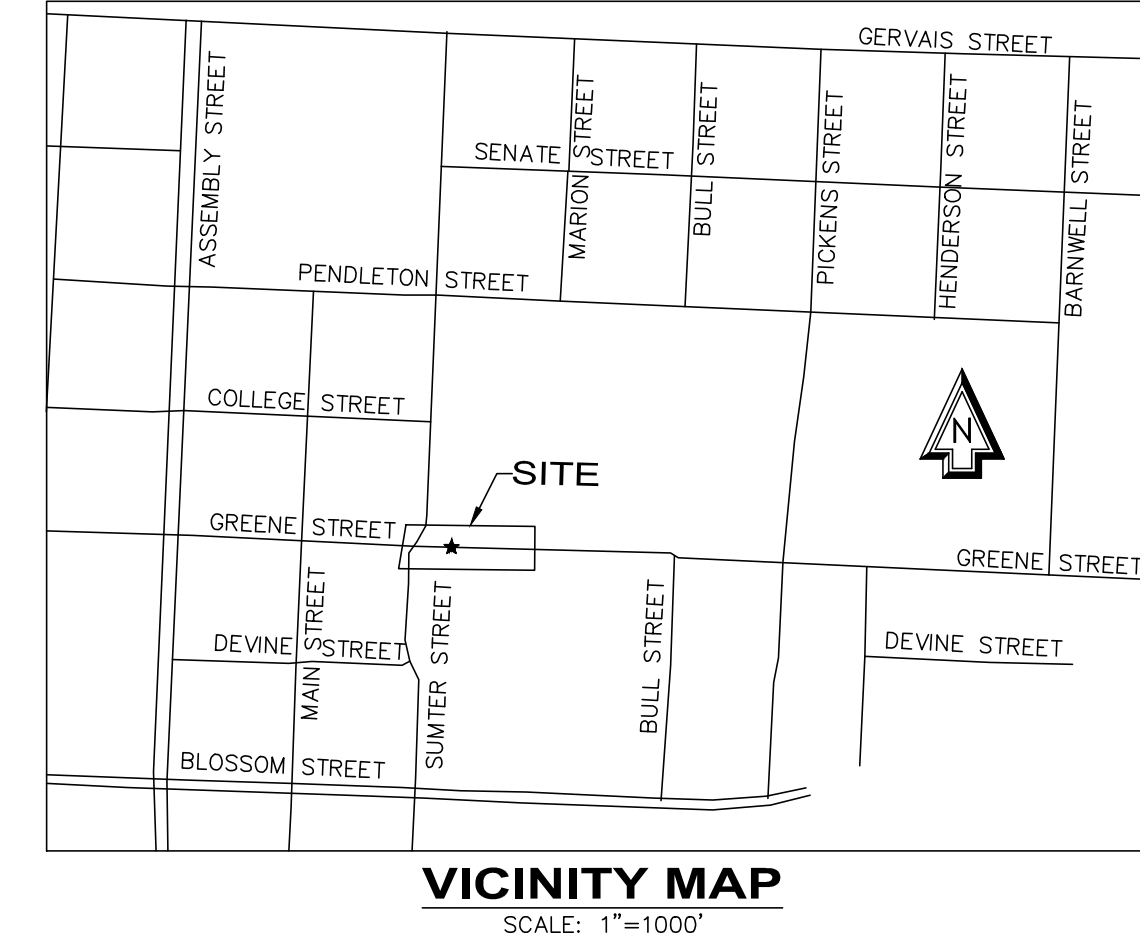
LEGEND (CIVIL)		
DEMOLITION	EXISTING	DESCRIPTION
N/A	---	RIGHT OF WAY
N/A	---	CURB AND GUTTER
N/A	---	BITUMINOUS SURFACE
N/A	---	CONCRETE SURFACE
N/A	---	BRICK PAVEMENT
N/A	---	CONTOURS
N/A	---	SPOT GRADE ELEVATION
N/A	---	BUILDING
N/A	---	STORM DRAIN LINE w/STRUCTURE
N/A	---	SANITARY SEWER LINE w/MANHOLE
N/A	---	FIRE HYDRANT
N/A	---	WATER LINE
N/A	---	WATER VALVE
N/A	---	WATER METER
N/A	---	NATURAL GAS LINE
N/A	---	UNDERGROUND ELECTRIC
N/A	---	LIGHT POLE w/UNDERGROUND ELECTRIC
N/A	---	OVERHEAD ELECTRIC w/POLE
N/A	---	TELEPHONE LINE
N/A	---	TREE
N/A	---	FENCE
N/A	---	SIGN
N/A	---	NATURAL GAS LINE
N/A	---	STEAM
N/A	①	KEY NOTE

GENERAL NOTES

- TOPOGRAPHIC SURVEY WAS COMPLETED BY CHAO AND ASSOCIATES, INC. IN MARCH OF 2016. NO BOUNDARY OR TOPOGRAPHIC SURVEY WAS PERFORMED BY R.B. TODD CONSULTING ENGINEERS.
- OWNER: UNIVERSITY OF SOUTH CAROLINA
OFFICE OF BUSINESS AFFAIRS
COLUMBIA, SC, 29208
PHONE NUMBER: 803-777-4674
CONTACT: EMILY JONES
EMAIL: E.JONES@BFA.MC.SC.EDU
TMS: R11304-05-01
ZONING: C-1
DEVELOPMENT ADDRESS: E/S SUMTER STREET COLUMBIA, SC, 29208
TOTAL ACREAGE: 100+ ACRES
DISTURBED AREA: 0.08 ACRES
- ACCORDING TO FEMA FLOOD INSURANCE RATE MAP 45079C0094H, DATED FEBRUARY 20, 2002, THIS PROPERTY IS LOCATED IN FLOOD ZONE "X".
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION OF ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS.
- THE CONTRACTOR SHALL NOTIFY PUPS AT 1-888-721-7877 AT LEAST 72 HOURS PRIOR TO CONSTRUCTION TO HAVE ALL UNDERGROUND UTILITIES LOCATED.

KEY NOTES

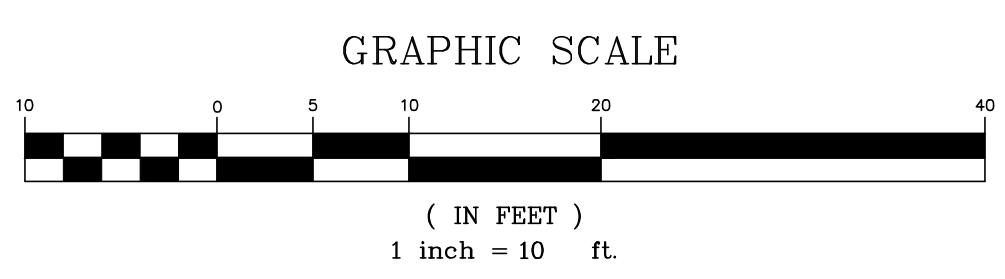
- UTILITY LINE NOT LOCATED BY SURVEY BUT SHOWN ON USC MASTER UTILITY DRAWING.
- REMOVE EXISTING BOLLARDS (19) INDICATED AND ASSOCIATED CHAINS. DELIVER BOLLARDS TO USC.
- SCE&G TO REMOVE AND RELOCATE EXISTING SECURITY LIGHT BEHIND NEW CURB. COORDINATE WITH SHEET C2.1 AND USC REPRESENTATIVE FOR EXACT LOCATION. CONTRACTOR TO COORDINATE WITH SCE&G ON RELOCATION.
- REMOVE CONCRETE AT FIRST SCORE JOINT EAST OF WATER METER BOX.
- SAWCUT CURB AND GUTTER AT TANGENT. COORDINATE WITH SHEET C2.1.
- REMOVE EXISTING BIKE LANE STRIPE FROM ROLL CURB TO PAINTED CROSSWALK BY POWER WASHING OR OTHER NON-MECHANICAL MEANS.



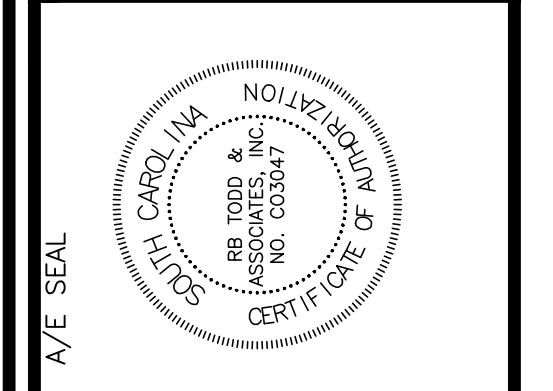
The Palmetto Utility Protection Service, Inc.
810 Duck Square Blvd., Suite 150 Columbia, South Carolina 29201 (803) 991-8117

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CONTRACTOR SHALL CONTACT THE UNDERGROUND LOCATORS EVERY 10 DAYS FOR AN UPDATE TO UTILITY LOCATIONS.



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Tel: 803.781.3141
Fax: 803.781.3142
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A/E SEAL
A/E SEAL

PROJECT TITLE
GREENE/SUMTER VEHICULAR IMPROVEMENTS II - DROP OFF

DRAWING TITLE
EXISTING CONDITIONS AND DEMOLITION PLAN

DRAWN BY: D.M.
CHECKED BY: R.B.T.
FILE:

PROJECT NO. 15-444
DATE 28 JUNE 2018
DRAWING NO. **C1.1**

Jul 03, 2018 - 5:06pm S:\Projects\15444 USC Greene Street Improvements\Drawings\Civil Phase I Revisions\15444-05 USC GREENE STREET.dwg

NEW	EXISTING	DESCRIPTION
N/A	+	BENCHMARK/CONTROL POINT
N/A	▭	BUILDING
N/A	⊗	LIGHT POLE
▬▬▬▬▬	▬▬▬▬▬	CURB AND GUTTER (BARRIER)
▬▬▬▬▬	▬▬▬▬▬	CURB AND GUTTER (ROLL)
▬▬▬▬▬	▬▬▬▬▬	CONCRETE PAVEMENT—HEAVY DUTY
▬▬▬▬▬	▬▬▬▬▬	CONCRETE PAVEMENT—LIGHT DUTY
▬▬▬▬▬	▬▬▬▬▬	BITUMINOUS SURFACE
N/A	⊙	TREE
N/A	⊙	KEY NOTE REFERENCE
N/A	●	BOLLARDS
▬▬▬▬▬	▬▬▬▬▬	BIKE LANE STRIPING

GENERAL NOTES

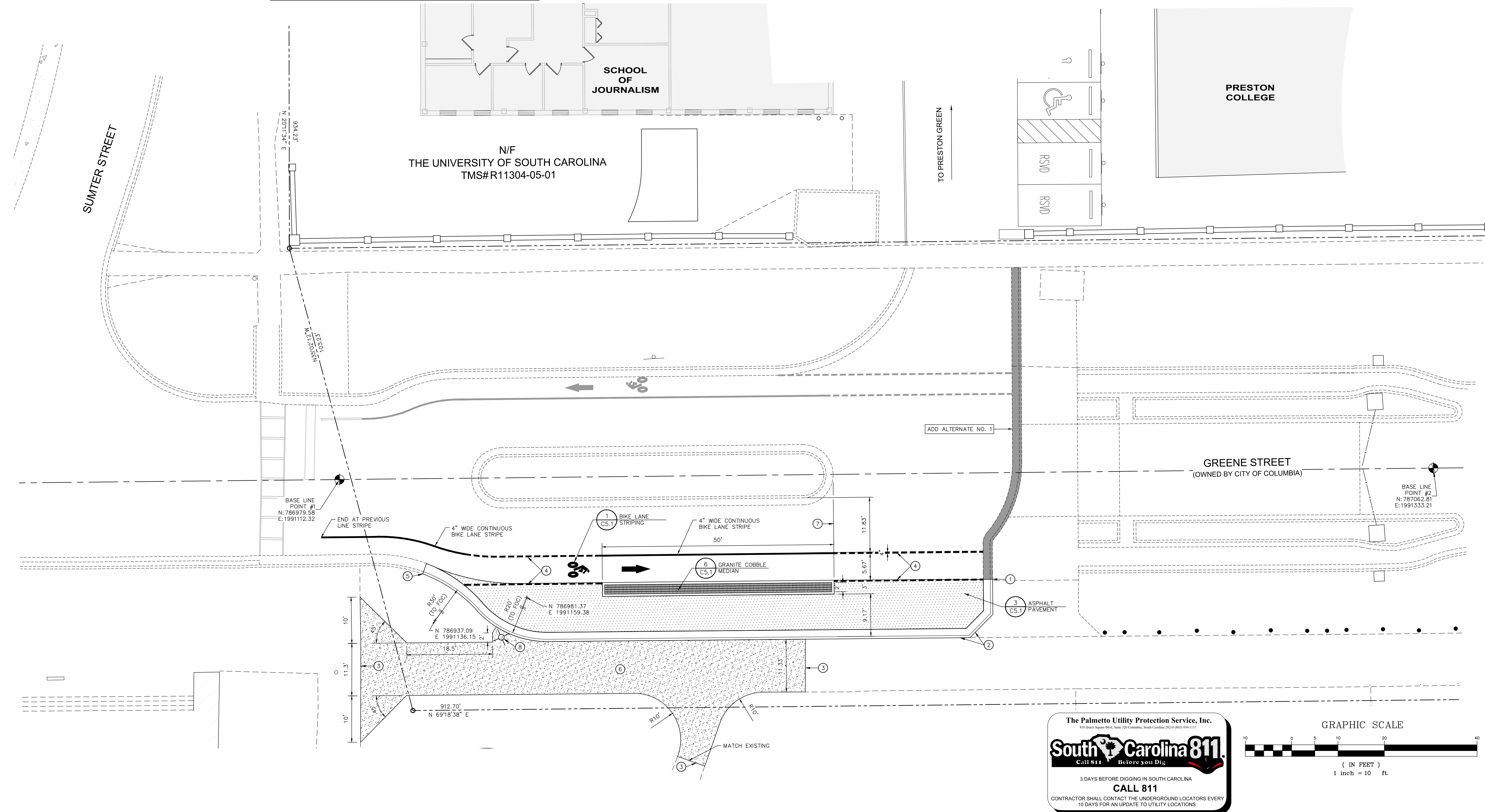
- ALL STRIPES SHOWN IN PAVED AREAS SHALL BE PERFORMED BY CONTRACTOR USING TRAFFIC MARKING PAINT. PAINT SHALL BE SHERWIN-WILLIAMS "PRO-MARK" TRAFFIC MARKING PAINT ON GLIDDEN TRAFFIC MARKING PAINT AND SHALL BE APPLIED IN TWO COATS IN STRICT ACCORDANCE WITH MANUFACTURE'S INSTRUCTIONS. ALL STRIPES TO BE 4" WIDE (WHITE).

KEY NOTES

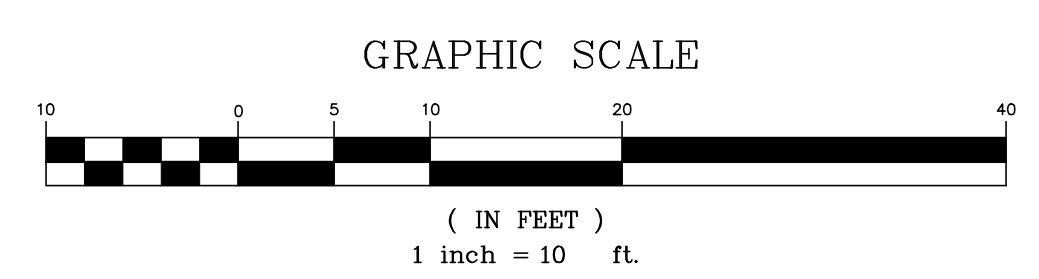
- CONNECT TO END OF EXISTING ROLL CURB AND TRANSITION TO BARRIER CURB OVER TWO FEET RUNNING LENGTH. IF ADD ALTERNATE NO. 1 IS ACCEPTED, TRANSITION FROM STRAIGHT GRADE TO BARRIER CURB IN SAME AREA.
- POUR TOP OF NEW CURB FLUSH WITH EDGE OF EXISTING SIDEWALK. INSTALL SELF LEVELING SILICONE CAULK IN JOINT THIRTY DAYS AFTER POUR.
- POUR NEW SIDEWALK (4"-3000psi) FLUSH WITH EXISTING. INSTALL SELF LEVELING SILICONE CAULK IN JOINT THIRTY DAYS AFTER POUR.
- DASHED BIKE LANE STRIPES (2' LONG WITH 3' GAPS).
- CONNECT TO END OF EXISTING CURB AND GUTTER MATCHING EXISTING PAVEMENT.
- SCORE NEW CONCRETE SIDEWALK TO MATCH EXISTING SCORING PATTERN EAST OF CONNECTION POINT.
- ALIGN END OF COBBLESTONE MEDIAN WITH PROJECTED FACE OF EXISTING MEDIAN GUTTER.
- RELOCATED LIGHT POLE. POUR CONCRETE AROUND 12" POST BASE ON WESTERN SIDE.

ADD ALTERNATE NO. 1 - ROLL CURB REPLACEMENT

REMOVE EXISTING CONCRETE ROLL CURB (SHADED) AND REPLACE WITH STRAIGHT GRADE CONCRETE RAMP SECTION FROM REMAINING ASPHALT PAVEMENT TO REMAINING CONCRETE CROSSWALK. INSTALL SELF LEVELING SILICONE CAULK IN JOINT ALONG EXISTING CONCRETE CROSSWALK THIRTY DAYS AFTER POUR SEE DETAIL 5/C5.1.



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STATE OF SOUTH CAROLINA
 PROFESSIONAL ENGINEER
 RBTODD & ASSOCIATES, INC.
 LICENSE NO. 10004
 CERTIFY DATE 06/18/18

A/E SEAL

A/E SEAL

PROJECT TITLE
GREENE/SUMTER VEHICULAR IMPROVEMENTS II - DROP OFF

DRAWING TITLE
STAKING PLAN

DRAWN BY: D.M.
 CHECKED BY: R.B.T.
 FILE:

PROJECT NO. 15-444
 DATE 28 JUNE 2018

DRAWING NO.
C2.1

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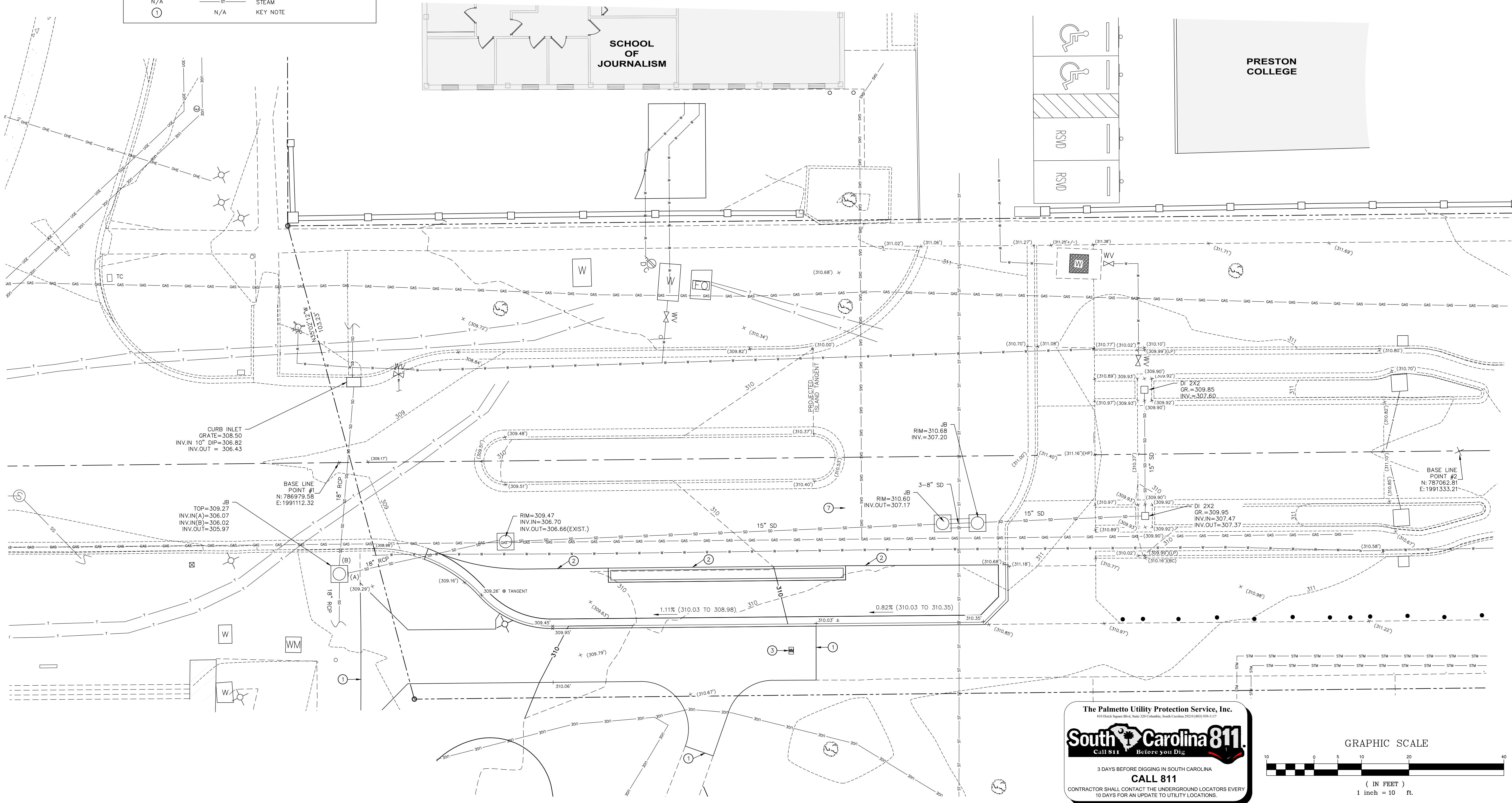
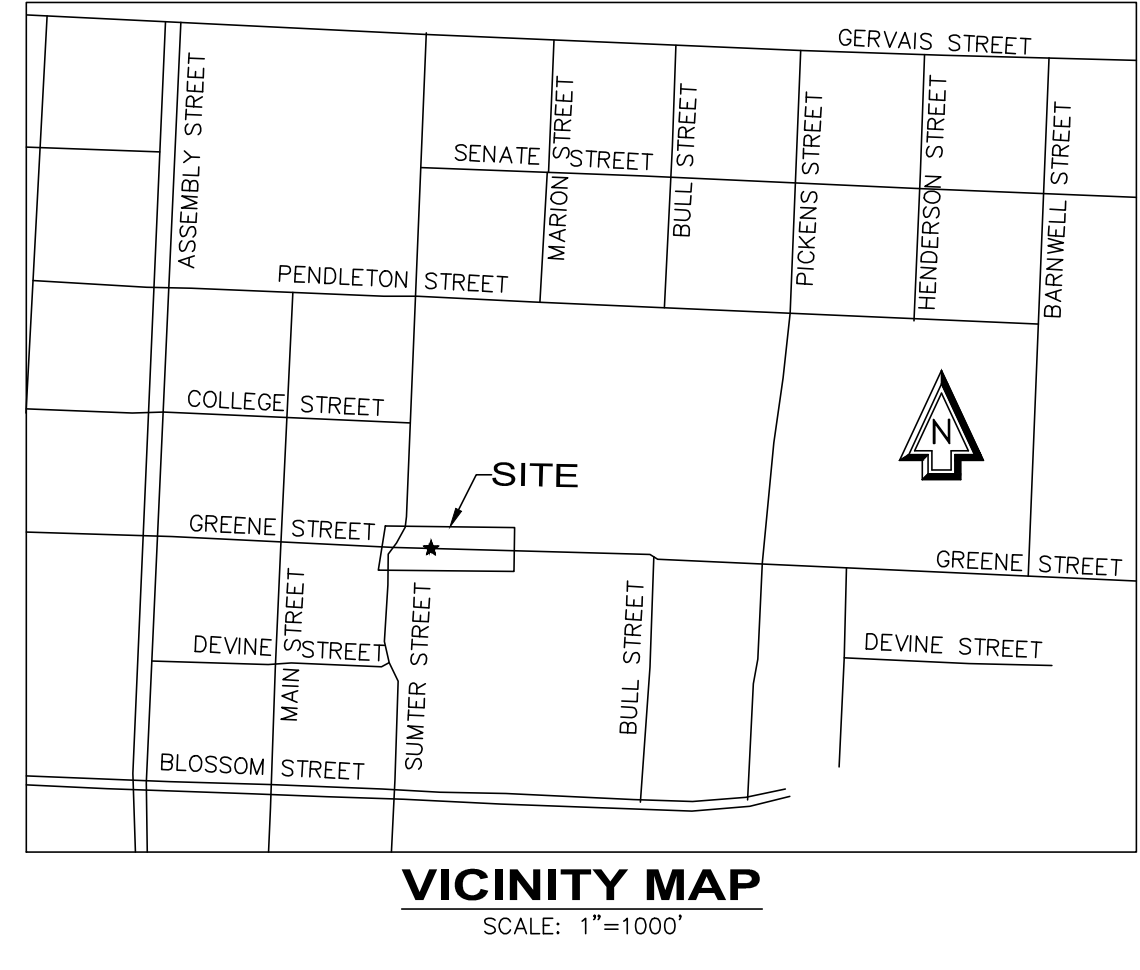
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Jul 03, 2018 - 5:11pm S:\Projects\15444 USC Greene Street Improvements\Drawings\Civil Phase I Revisions\160226\15444-USC GREENE STREET.dwg

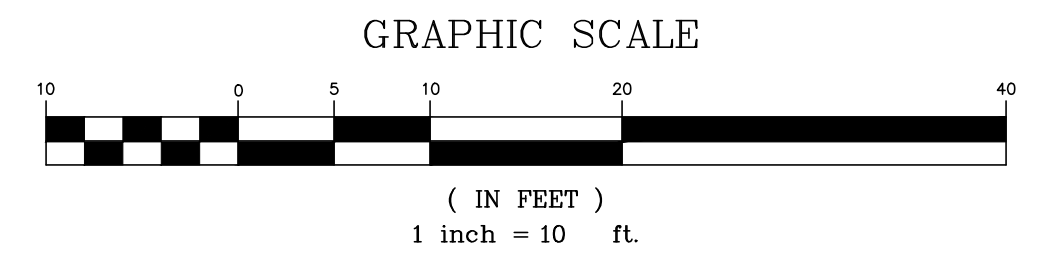
NEW	EXISTING	DESCRIPTION
N/A	+	BENCHMARK/CONTROL POINT
N/A	□	LIGHT POLE
N/A	⊗	CURB AND GUTTER
210	210	CONTOUR
x 210.50'	x (210.50')	SPOT ELEVATION
N/A	W	WATER VALVE
N/A	⊕	FIRE HYDRANT
N/A	BOL	BOLLARDS
N/A	SD	STORM DRAINAGE LINE w/ DROP INLET
N/A	SS	SANITARY SEWER LINE w/MANHOLE
N/A	W	FIRE HYDRANT
N/A	W	WATER LINE
N/A	W	WATER VALVE
N/A	W	WATER METER
N/A	GAS	NATURAL GAS LINE
N/A	USE	UNDERGROUND ELECTRIC
N/A	USE	LIGHT POLE w/UNDERGROUND ELECTRIC
N/A	OHE	OVERHEAD ELECTRIC w/POLE
N/A	TEL	TELEPHONE LINE
N/A	T	TREE
N/A	F	FENCE
N/A	SIGN	SIGN
N/A	GAS	NATURAL GAS LINE
N/A	ST	STEAM
①	N/A	KEY NOTE

- ### KEY NOTES
- POUR CONCRETE FLUSH WITH EXISTING CONCRETE.
 - PLACE NEW ASPHALT PAVEMENT AND COBBLESTONE CURB FLUSH WITH EDGE OF EXISTING ASPHALT.
 - ADJUST EXISTING WATER METER/VALVE BOX FLUSH WITH NEW CONCRETE SURFACE.

- ### GRADING NOTES
- CONTRACTOR TO LASER GRADE SUBGRADE AND CHECK ALL SPOT GRADES (ALLOWING FOR PAVEMENT SECTION) PRIOR TO INSTALLING BASE AND PAVEMENT. SUBMIT TO ENGINEER PRIOR TO INSTALLING PAVEMENT.
 - CONTRACTOR TO PROVIDE RECORD DRAWING OF SPOT GRADES IN GUTTER AND TOP OF CURB IN SAME LOCATIONS OF CONSTRUCTED AREA AS REFLECTED ON THIS SHEET AT THE END OF PROJECT. SUBMIT TO ENGINEER.



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PROJECT NO. 15-444
 DATE 28 JUNE 2018

DRAWING NO. C3.1

DRAWN BY D.M.
 CHECKED BY R.B.T.
 FILE

PROJECT TITLE
GRADING PLAN
GREENE/SUMTER VEHICULAR IMPROVEMENTS II - DROP OFF

PROJECT NO. 15-444
 DATE 28 JUNE 2018

DRAWING NO. C3.1

A/E SEAL

A/E SEAL

PROJECT NO. 15-444
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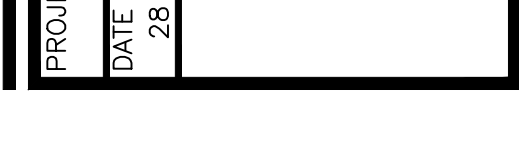
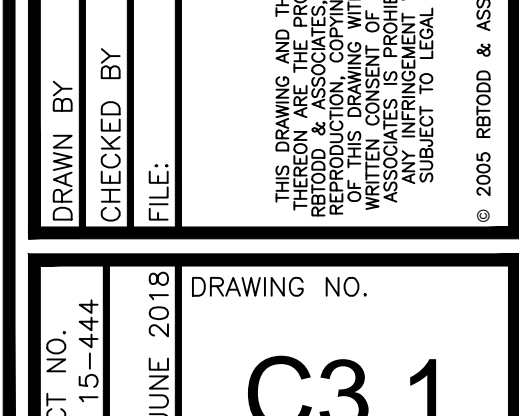
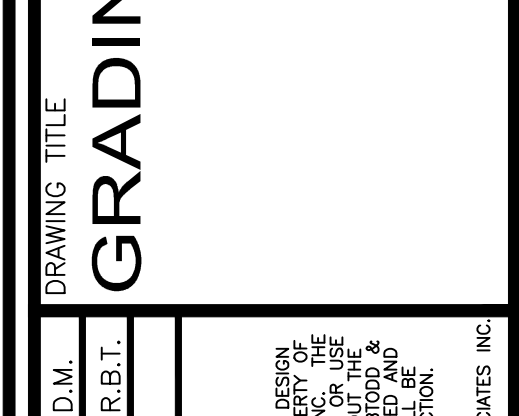
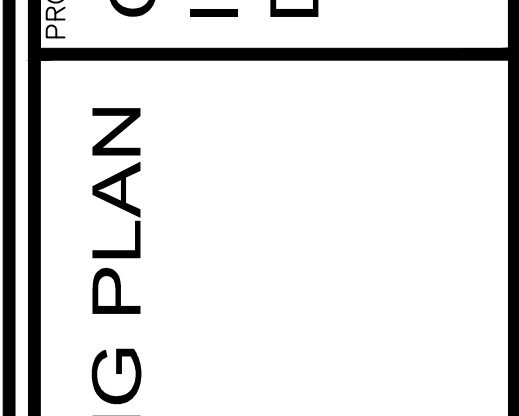
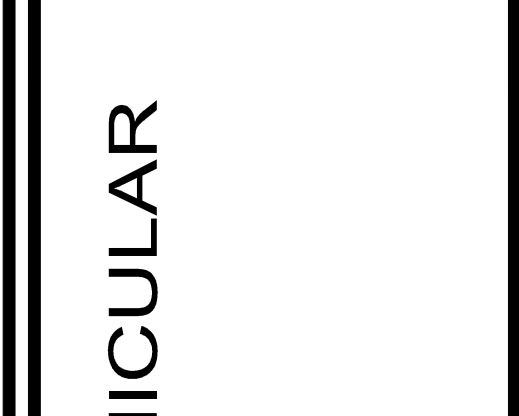
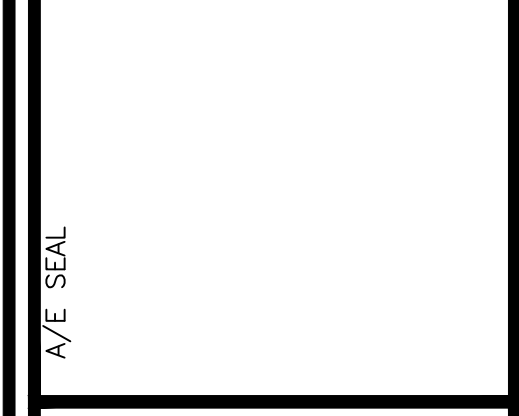
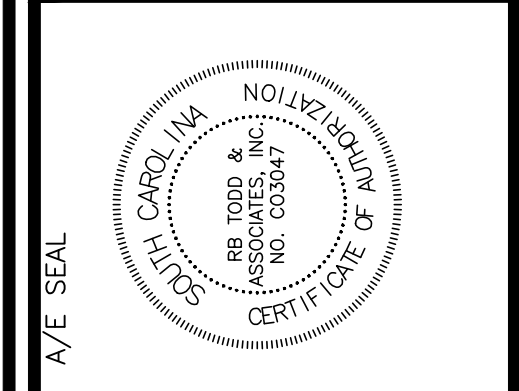
PROJECT NO. 15-444
 DATE 28 JUNE 2018

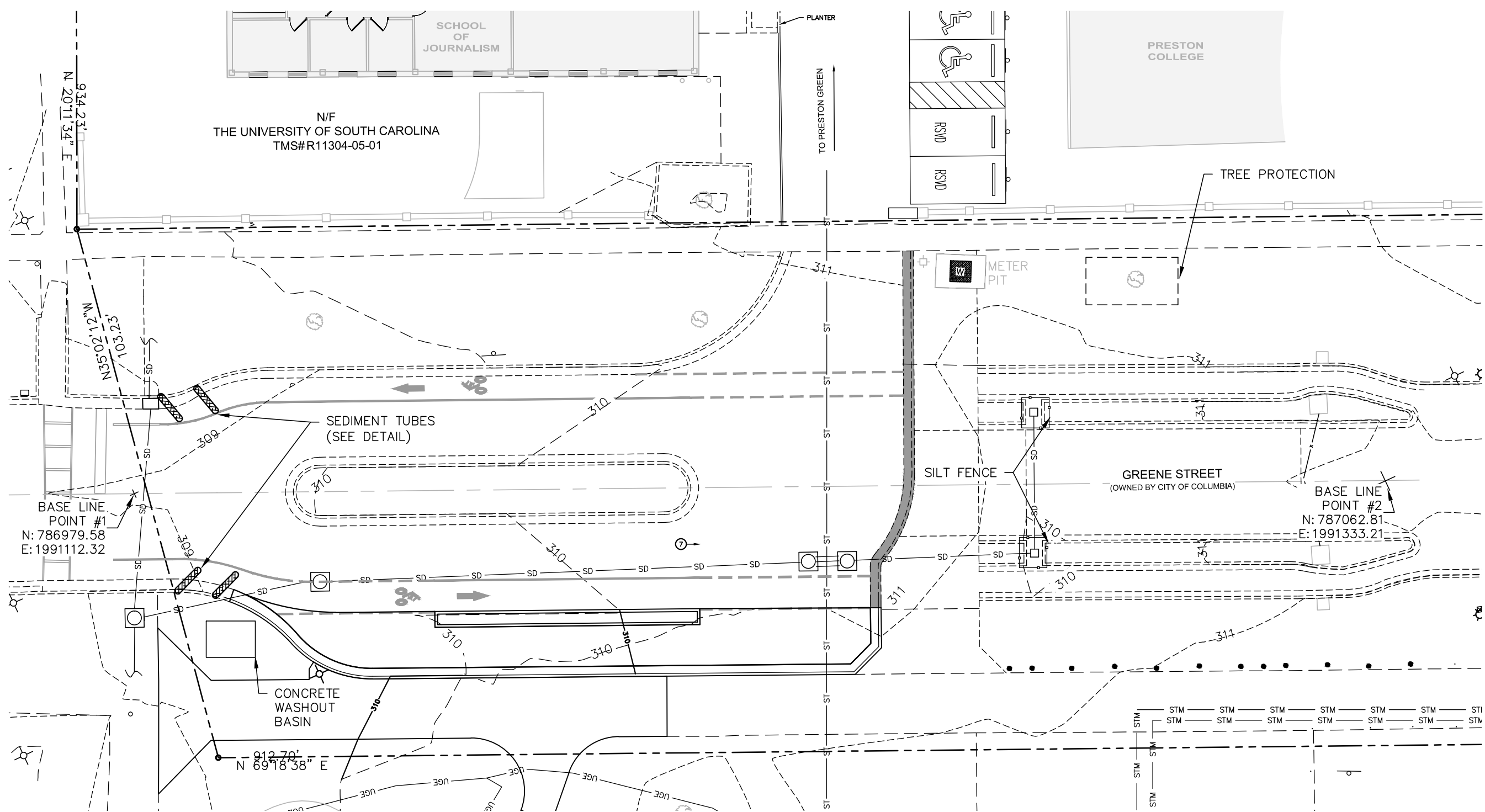
DRAWING NO. C3.1

PROJECT NO. 15-444
 DATE 28 JUNE 2018

DRAWING NO. C3.1

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 Irmo, S.C. 29063
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SIGNATURES AND CERTIFICATIONS

A. ONE COPY OF THE SWPPP, ALL SPECIFICATIONS, AND SUPPORTING CALCULATIONS, FORMS, AND REPORTS ARE HEREWITH SUBMITTED AND MADE A PART OF THIS APPLICATION. I HAVE PLACED MY SIGNATURE AND SEAL ON THE DESIGN DOCUMENTS SUBMITTED SHOWING 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 THE REGULATION 72-300 ET SEQ., AND IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF SCR100000. (THIS SHOULD BE THE PERSON IDENTIFIED IN SECTION V.A.)

Bruce Todd, P.E. S.C. REGISTRATION NO. 15310
 PRINTED NAME OF SWPPP PREPARED SIGNATURE OF SWPPP PREPARED
 I, I HEREBY CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.
 I HEREBY CERTIFY THAT ALL LAND-DISTURBING CONSTRUCTION AND ASSOCIATED ACTIVITY PERTAINING TO THIS SITE SHALL BE ACCOMPLISHED PURSUANT TO AND IN KEEPING WITH THE TERMS AND CONDITIONS OF THE APPROVED PLANS AND SCR100000. I ALSO CERTIFY THAT A RESPONSIBLE PERSON WILL BE ASSIGNED TO THE PROJECT FOR DAY-TO-DAY CONTROL. I HEREBY GRANT AUTHORIZATION TO THE DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL AND/OR THE LOCAL IMPLEMENTING AGENCY THE RIGHT OF ACCESS TO THE SITE AT ALL TIMES FOR THE PURPOSE OF ON-SITE INSPECTIONS DURING THE COURSE OF CONSTRUCTION AND TO PERFORM MAINTENANCE INSPECTIONS FOLLOWING THE COMPLETION OF THE LAND-DISTURBING ACTIVITY. (SEE SECTION 722.22 OF S.C. REG. 61-9 FOR SIGNATORY AUTHORITY INFORMATION.)

Thomas N. Opel S.C. REGISTRATION NO. 15310
 PRINTED NAME OF PROJECT OWNER/OPERATOR SIGNATURE OF PROJECT OWNER/OPERATOR TITLE/POSITION

APPLICANT'S CERTIFICATION STATEMENT

I (WE) HEREBY CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN.

07/20/2018
 APPLICANT **Thomas N Opel**

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER

DESIGN CERTIFICATION STATEMENT

I HEREBY CERTIFY THAT THIS PLAN IS DESIGNED TO MEET STORM DRAINAGE REQUIREMENTS AND TO CONTAIN SILT ON THE PROPERTY CONCERNED TO THE MAXIMUM EXTENT FEASIBLE. PROVISIONS FOR EROSION AND SEDIMENT CONTROL AND STORM DRAINAGE ARE IN ACCORDANCE WITH THE COLUMBIA SEDIMENT AND EROSION CONTROL AND STORM DRAINAGE ORDINANCE.

AIRBORNE DUST CONTROL

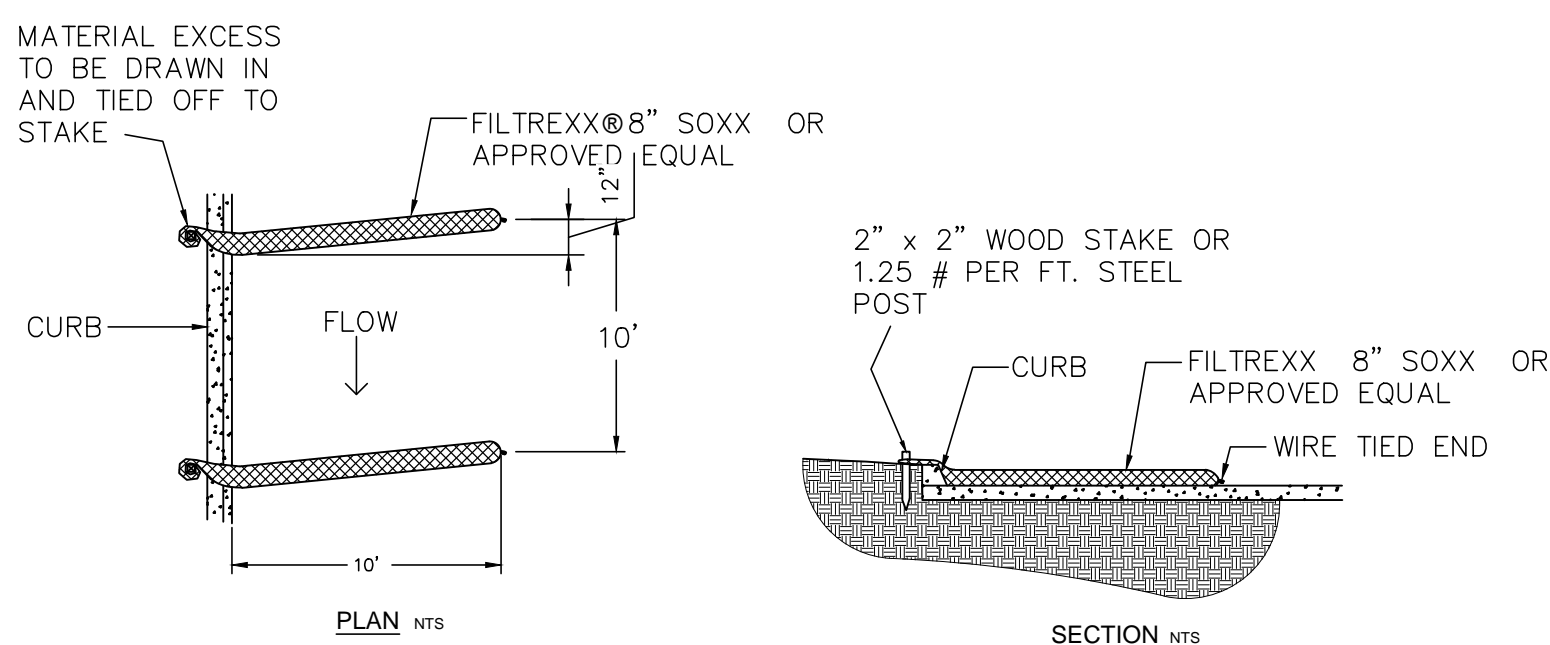
THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AS OUTLINED IN THE SOUTH CAROLINA DHEC STORMWATER MANAGEMENT BMP HANDBOOK AS NEEDED TO CONTROL AIRBORNE DUST DURING CONSTRUCTION. COORDINATE WITH ENGINEER PRIOR TO IMPLEMENTATION OF VARIOUS MEASURES.

PREDOMINANT SOIL TYPE

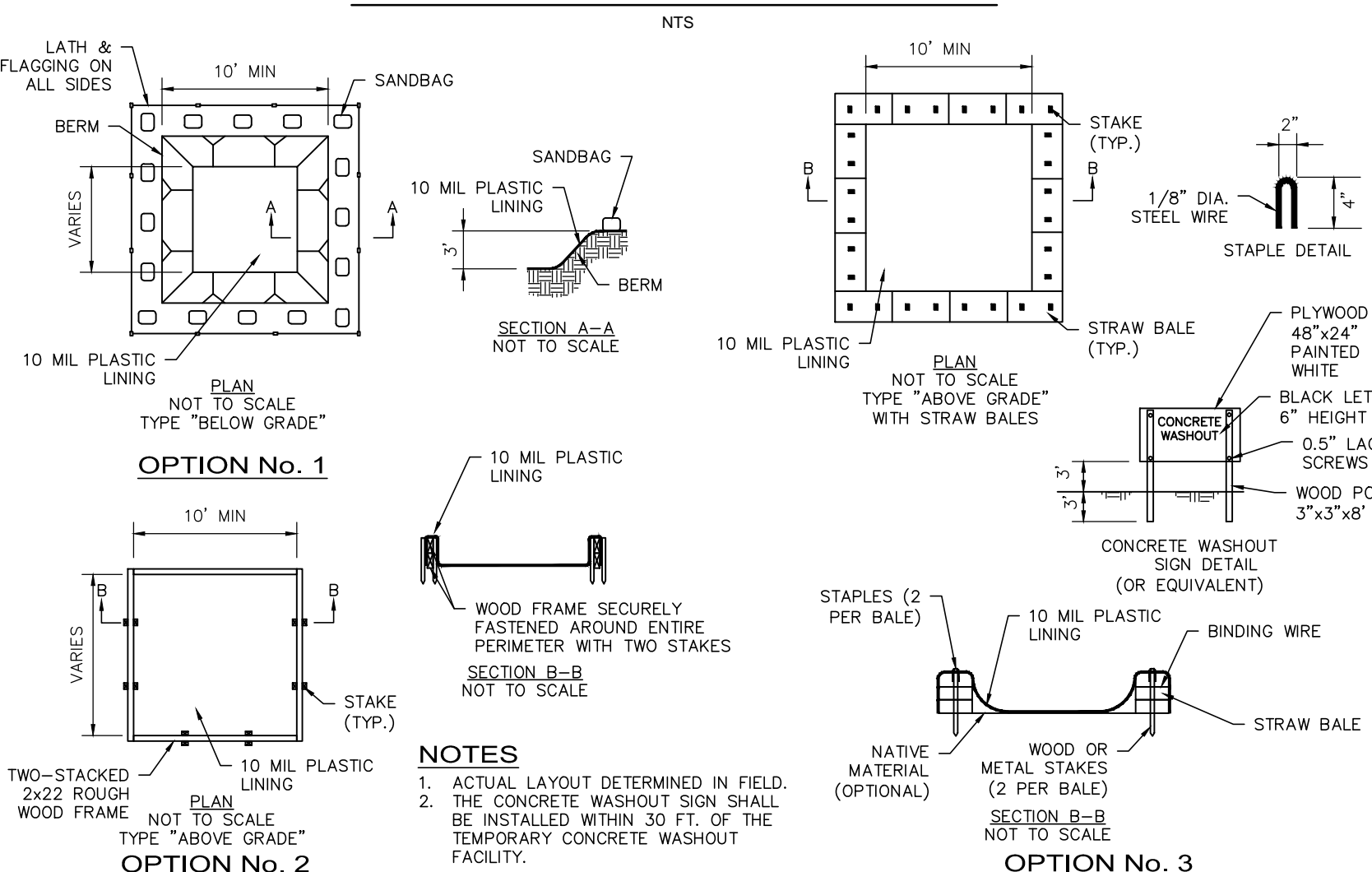
URBAN LAND U_r

GRASSING PER 1000 SQUARE FEET (TEMPORARY)

FROM MAY 1 TO AUGUST 30	FROM SEPTEMBER 1 TO APRIL 30
1 LB. BROWNTOP MILLET GRASS	6 LBS. ANNUAL RYEGRASS
15 LBS. 10-10-10 FERTILIZER	15 LBS. 10-10-10 FERTILIZER
5 LBS. MAGNESIUM SULFATE	5 LBS. MAGNESIUM SULFATE
10 LBS. CALCIUM (GYPSUM)	10 LBS. CALCIUM (GYPSUM)



SEDIMENT TUBES CURB CONTAINMENT



NOTES
 1. ACTUAL LAYOUT DETERMINED IN FIELD.
 2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

CONCRETE WASHOUT

CONSTRUCTION SEQUENCE OF ENTIRE CONSTRUCTION AREA FOR EROSION AND SEDIMENT CONTROL

1. SEE SWPPP FOR LIMITS OF DISTURBANCE AND FLAG LIMITS FOR CLEARING AS NEEDED.
2. INSTALL SILT FENCES AND CONTROL DEVICES AS SHOWN ON PLANS WHERE APPLICABLE FOR INITIAL GRADING.
3. CLEAR FLAGGED AREA.
4. SCRAPE EXISTING LAYER OF VEGETATION (MIN. 2" DEPTH) FROM CONSTRUCTION AREA AND DISPOSE OFF-SITE.
5. CONSTRUCT SEDIMENT/RETENTION BASIN. SEE EARTHWORK SPECIFICATIONS FOR POND FILL COMPACTION RATIO.
6. CONTRACTOR SHALL INSTALL TEMPORARY BAFFLING AT THE INLET OF THE SEDIMENT POND, TO DIRECT STORMWATER RUNOFF AWAY FROM THE OUTLET UNTILL THE SITE IS STABILIZED.
7. INSTALL STORM DRAINAGE SYSTEM AND SILT FENCES IN SEQUENCE WITH EARTHWORK OPERATIONS.
8. ALL DISTURBED AREAS SHALL RECEIVE STABILIZING MEASURES (TEMPORARY GRASSING) WITHIN 14 DAYS, EXCEPT WHERE CONSTRUCTION WILL RESUME WITH 21 DAYS.
9. SEE NOTE NO. 3 UNDER SEDIMENT AND EROSION CONTROL NOTES FOR INSPECTION INFORMATION.
10. COMPLETE CONSTRUCTION.
11. FINAL GRADING, GRASSING, AND LANDSCAPING.
12. EROSION CONTROL MEASURES TO BE REMOVED AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED.
13. SEDIMENT ACCUMULATIONS SHALL BE REMOVED FROM IMPOUNDED AREAS ONCE THE SITE IS STABILIZED. COORDINATE WITH OWNER/ARCHITECT PRIOR TO COMMENCING OPERATION.

EROSION AND SEDIMENT CONTROL MEASURES

GENERAL

THE CONTRACTOR IS ADVISED THAT ALL GRADING AND DRAINAGE WORK ON THE PROJECT IS PERMITTED UNDER THE REQUIREMENTS OF THE SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL, DIVISION OF STORMWATER MANAGEMENT. COMPLIANCE WITH THE PERMITTED CONDITIONS IS MANDATORY. THE CONTRACTOR SHALL RELY ON EXPERIENCE AND CONTROL OF THE WORK TO PROVIDE ADEQUATE AND ORDERLY CONSTRUCTION METHODS TO CONTROL STORMWATER RUNOFF AND PREVENT THE EXCESSIVE MIGRATION OF SEDIMENTS FROM THE SITE. THE CONTRACTOR ALSO SHALL DIRECT INSTALLATION OF NECESSARY TEMPORARY CONSTRUCTION MEASURES TO CONTROL STORMWATER RUNOFF. ALL STORMWATER MANAGEMENT MEASURES SHALL BE INSPECTED AFTER EACH RAIN EVENT, AND ANY REQUIRED MAINTENANCE SHALL BE PERFORMED.

SILT FENCES

SILT FENCES OR EQUIVALENT SEDIMENT CONTROL SHALL BE INSTALLED WHERE INDICATED AND MAINTAINED IN ACCORDANCE WITH THIS PLAN.

STORM DRAINAGE STRUCTURES

TEMPORARY BARRIERS OF EITHER SILT FENCING OR ROCK RIPRAP SHALL BE INSTALLED AND MAINTAINED AROUND STORM DRAINAGE STRUCTURES UNTIL THEIR DRAINAGE AREA IS STABILIZED. STORM DRAINAGE PIPES, INCLUDING OUTLET PROTECTION, SHALL BE INSTALLED AS SOON AS EARTH GRADING IS ADEQUATE TO ACCEPT PIPE INSTALLATION. INLET STRUCTURES SHALL BE CONSTRUCTED AS THE EARTH FILL IS PLACED, AND CONSTRUCTION SHALL AT ALL TIMES PROVIDE SURFACE DRAINAGE TO THEM. TEMPORARY BARRIERS SHALL BE INSTALLED AND MAINTAINED AT EACH INLET AS THE EARTH FILL RISES.

STABILIZATION OF DISTURBED AREAS

DISTURBED AREAS SHALL RECEIVE STABILIZING MEASURES WITHIN 14 DAYS AFTER DISTURBANCES, UNLESS CONSTRUCTION WILL RESUME IN THAT AREA WITHIN 21 DAYS FROM WHEN ACTIVITIES CEASED.

INSPECTION AND MAINTENANCE

SEDIMENT CONTROL SYSTEMS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER ANY RAINFALL EVENT EXCEEDING 0.5 INCH. ANY NEEDED CORRECTIONS OR MAINTENANCE SHALL BE ACCOMPLISHED IMMEDIATELY THEREAFTER.

REMOVAL OF SEDIMENT CONTROL SYSTEMS

TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AFTER EACH AFFECTED AREA HAS BEEN "FINALLY STABILIZED".

TEMPORARY DIVERSIONS

TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR DIVERT SEDIMENT LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.

TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO PREVENT FLOW OF STORMWATER OVER DISTURBED AREA. TEMPORARY DIVERSION OUTLETS SHALL HAVE ADEQUATE CAPACITY AND TERMINATE INTO DENSE VEGETATION, ROCK RIPRAP, STORM STRUCTURES, OR SIMILAR MEASURES TO REDUCE EROSION AT THE OUTLET. TEMPORARY DIVERSION CHANNELS SHALL BE CONSTRUCTED AND MAINTAINED AT A MINIMUM OF 1 PERCENT GRADE AND A MAXIMUM GRADE OF 2 PERCENT. THE CAPACITY OF TEMPORARY DIVERSIONS SHALL BE RESTORED ANYTIME THE EXCAVATED CHANNEL BECOMES FULL OF SEDIMENT AT ANY POINT IN THE LENGTH OF THE DIVERSION. THE RIDGE AND CHANNEL OF THE TEMPORARY DIVERSIONS SHALL BE STABILIZED WITH TEMPORARY VEGETATION IMMEDIATELY AFTER CONSTRUCTION AND RE-STABILIZED AFTER EACH DISTURBANCE.

SEDIMENT AND EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN THROUGHOUT THE LENGTH OF CONSTRUCTION SILT FENCES AT ALL STORM DRAINAGE STRUCTURES AND ALONG THE PERIMETER OF CONSTRUCTION AS NECESSARY TO CONTAIN ALL SEDIMENT RUNOFF WITHIN THE AREAS DISTURBED BY CONSTRUCTION.
2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED EXCEPT AS STATED BELOW:
 > 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.
3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED AT LEAST ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OR IDENTIFICATION.
4. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN THEY REACH ONE-THIRD THE HEIGHT OF THE SEDIMENT FENCE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STABILIZING ALL SLOPES FROM FINISH GRADE TO NATURAL GROUND AND FOR PREVENTING EXCESSIVE EROSION FROM OCCURRING. IMMEDIATELY AFTER ESTABLISHING THE INTERMEDIATE ROUGH GRADE SLOPES AND AFTER REACHING THE FINAL GRADE SLOPES, THE CONTRACTOR SHALL PROVIDE GRASSING OF THESE SLOPES WHEN SLOPES ARE DISTURBED BY SUBSEQUENT EXCAVATIONS FOR OTHER ITEMS. THE CONTRACTOR SHALL INSPECT THE REPAIRS AND CORRECT ANY DEFICIENCIES IN THE REPAIRS.
6. ALL GRADING WORK SHALL CONFORM SUBSTANTIALLY WITH THE GRADING PLANS. WHERE SPOT GRADES ARE INDICATED ON THE PLANS, THEY SHALL BE ESTABLISHED BY SCALING AND SHALL TAKE PRECEDENCE OVER CONTOURS. ALL GRADING BETWEEN SPOT GRADES SHALL BE SMOOTH AND UNIFORM.
7. THE CONTRACTOR SHALL ADEQUATELY COORDINATE THE INSTALLATION OF THE STORM DRAINAGE SYSTEM TO ENSURE THAT POSITIVE RUNOFF OF STORMWATER IS EFFECTED BOTH DURING CONSTRUCTION AND AFTER COMPLETION OF THE WORK.
8. IF NECESSARY, SLOPES WHICH EXCEED 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.
9. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
10. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE TRACKING OF MUD ONTO PAVED ROADWAY FROM CONSTRUCTION AREAS AND GENERATION OF DUST. THE CONTRACTOR SHALL REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
11. 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.
12. TEMPORARY DIVERSION BERMS AND/OR DITCHES SHALL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
13. 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 CANNOT BE MAINTAINED BETWEEN THE DISTURBED AREAS AND ALL WoS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WoS.
14. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER), AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORMWATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORMWATER DISCHARGES.
15. 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.
16. 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.
17. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
18. MINIMIZE 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.
19. 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.).
20. 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, FROM 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.
21. 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.
22. 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 PRACTICAL. 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.
23. 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.

MATERIALS
 USE FILTER FABRIC THAT CONFORMS TO SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION). REFER TO THE SILT FENCE GEOTEXTILE FABRICS APPROVAL SHEET #34.

- USE STEEL POSTS THAT MEET THE FOLLOWING MINIMUM PHYSICAL REQUIREMENTS:
- BE COMPOSED OF HIGH STRENGTH STEEL WITH MINIMUM YIELD STRENGTH OF 50,000 PSI.
 - HAVE A STANDARD "T" SECTION WITH A NOMINAL FACE WIDTH OF 1.38-INCHES AND NOMINAL "T" LENGTH OF 1.48-INCHES.
 - WEIGH 1.25 POUNDS PER FOOT ($\pm 8\%$).
 - BE PAINTED WITH A WATER BASED BAKED ENAMEL PAINT.

ATTACH FABRIC TO METAL POSTS WITH HEAVY-DUTY PLASTIC TIES.

INSTALLATION
 EXCAVATE A TRENCH 6-INCHES WIDE AND 6-INCHES DEEP AROUND THE OUTSIDE PERIMETER OF THE INLET UNLESS THE FABRIC IS PNEUMATICALLY INSTALLED.

EXTEND THE FILTER FABRIC A MINIMUM OF 12-INCHES INTO THE TRENCH. BACKFILL THE TRENCH WITH SOIL OR CRUSHED STONE AND COMPACT OVER THE FILTER FABRIC UNLESS THE FABRIC IS PNEUMATICALLY INSTALLED.

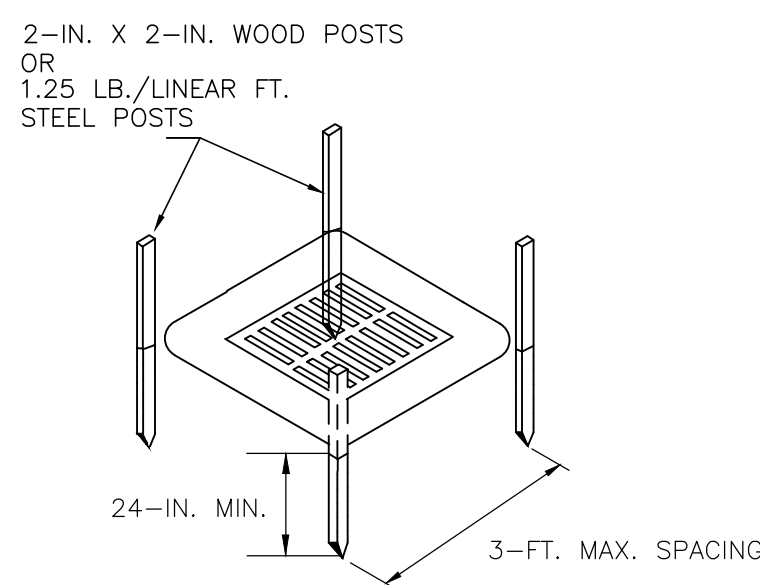
USE STEEL POSTS WITH A MINIMUM POST LENGTH OF 60-INCHES CONSISTING OF STANDARD "T" SECTIONS WITH A WEIGHT OF 1.25 POUNDS PER FOOT ($\pm 8\%$). INSTALL THE FILTER FABRIC TO A MINIMUM HEIGHT OF 24-INCHES ABOVE GRADE. SPACE THE STEEL POSTS AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3- FEET APART AND DRIVE THEM INTO THE GROUND A MINIMUM OF 24-INCHES. CUT THE FILTER FABRIC FROM A CONTINUOUS ROLL TO THE LENGTH OF THE PROTECTED AREA TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, WRAP FILTER FABRIC TOGETHER ONLY AT A SUPPORT POST WITH BOTH ENDS SECURELY FASTENED TO THE POST, WITH A MINIMUM 6-INCH OVERLAP.

ATTACH FABRIC TO STEEL POSTS WITH HEAVY-DUTY PLASTIC TIES.

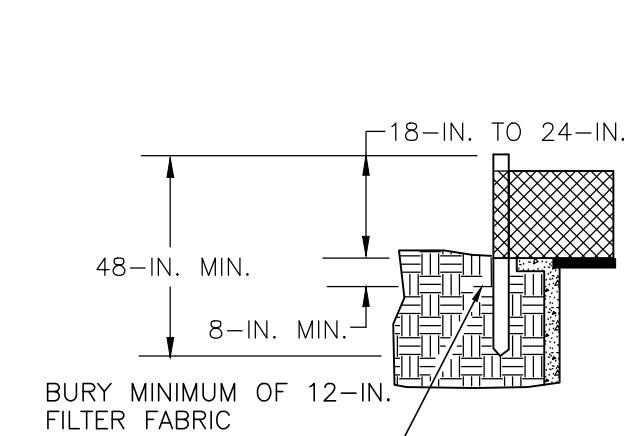
ATTACH AT LEAST FOUR (4) EVENLY SPACED TIES IN A MANNER TO PREVENT SAGGING OR TEARING OF THE FABRIC. IN ALL CASES, AFFIX TIES IN NO LESS THAN FOUR (4) PLACES.

INSPECTION AND MAINTENANCE
 ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED AT LEAST ONCE EVERY FOURTEEN (14) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER. IF THE FABRIC BECOMES CLOGGED, IT SHOULD BE REPLACED. SEDIMENT SHOULD BE REMOVED WHEN IT REACHES APPROXIMATELY 1/3 THE HEIGHT OF THE FENCE. TAKE CARE NOT TO DAMAGE OR UNDERCUT FABRIC WHEN REMOVING SEDIMENT. IF A SLUMP IS USED, SEDIMENT SHOULD BE REMOVED WHEN IT FILLS APPROXIMATELY 1/3 THE DEPTH OF THE HOLE. MAINTAIN THE POOL AREA, ALWAYS PROVIDING ADEQUATE SEDIMENT STORAGE VOLUME FOR THE NEXT STORM.

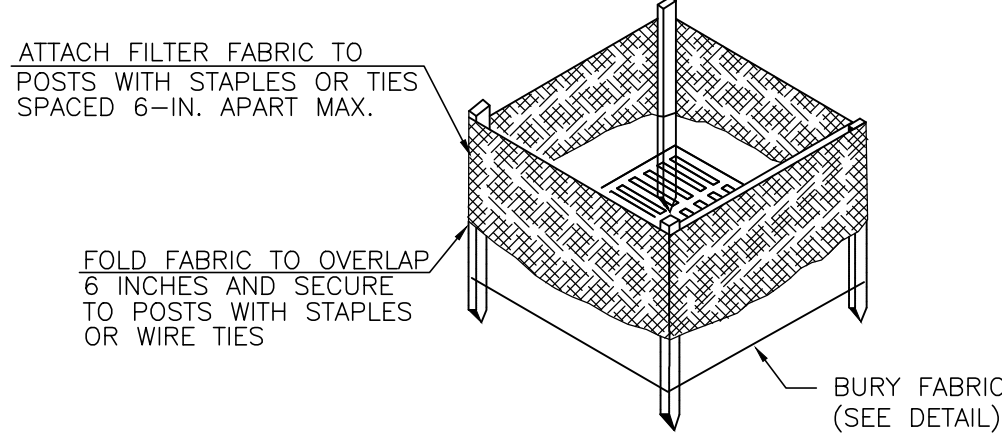
STORM DRAIN INLET PROTECTION STRUCTURES SHOULD BE REMOVED ONLY AFTER THE DISTURBED AREAS ARE PERMANENTLY STABILIZED. REMOVE ALL CONSTRUCTION MATERIAL AND SEDIMENT, AND DISPOSE OF THEM PROPERLY. GRADIE THE DISTURBED AREA TO THE ELEVATION OF THE DROP INLET STRUCTURE CREST. USE APPROPRIATE PERMANENT STABILIZATION METHODS TO STABILIZE BARE AREAS AROUND THE INLET.



POST INSTALLATION DETAIL



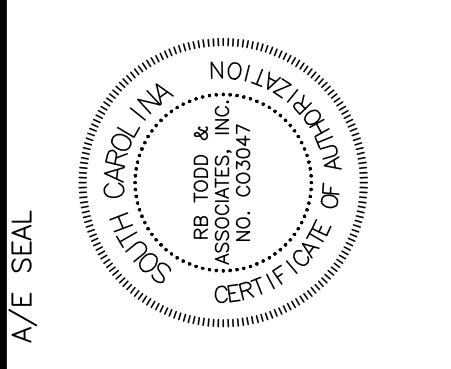
FILTER FABRIC BURIAL DETAIL



FILTER FABRIC INSTALLATION DETAIL

TYPE A - FILTER FABRIC INLET PROTECTION

NOT TO SCALE



A/E SEAL

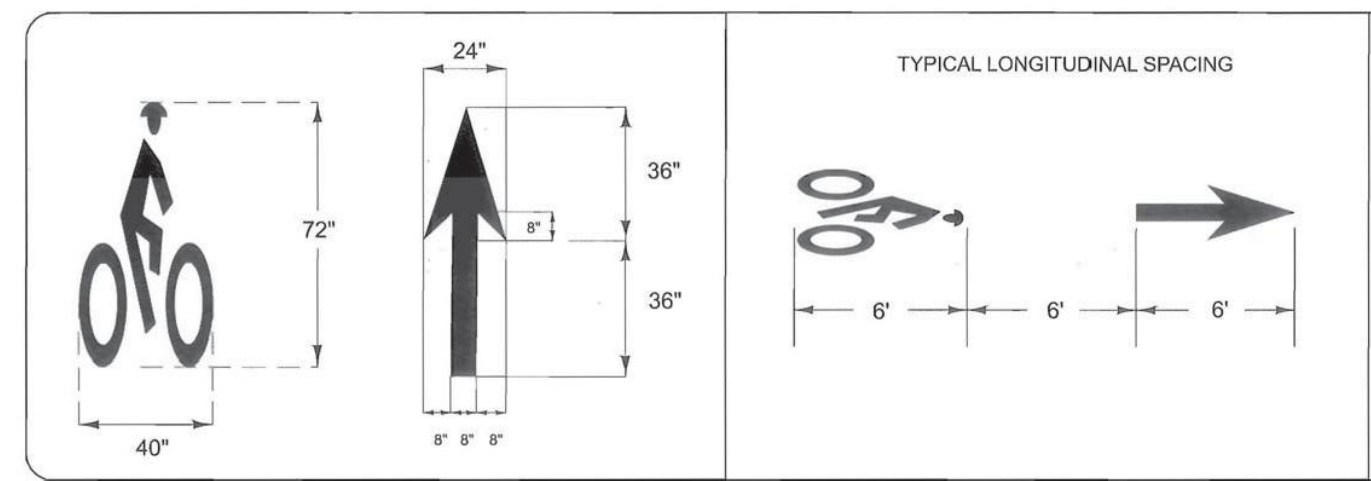
PROJECT TITLE
GREENE/SUMTER VEHICULAR IMPROVEMENTS II - DROP OFF

DRAWING TITLE
STORMWATER POLLUTION PREVENTION PLAN

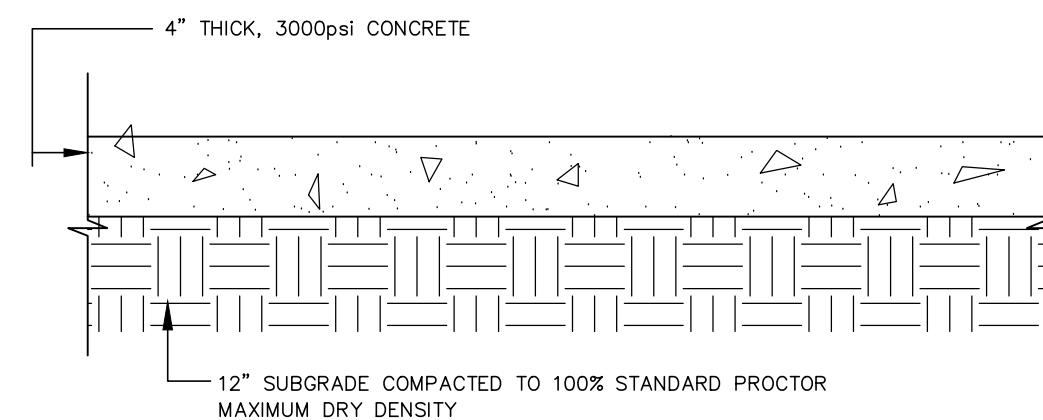
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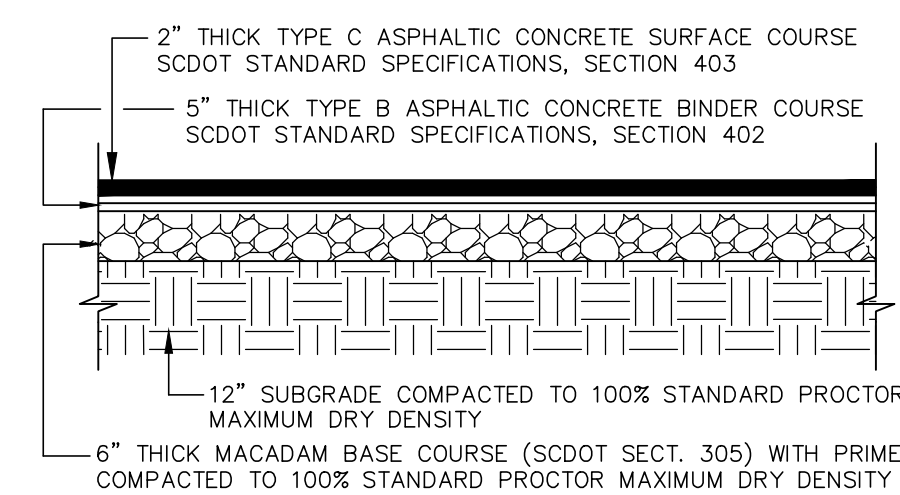
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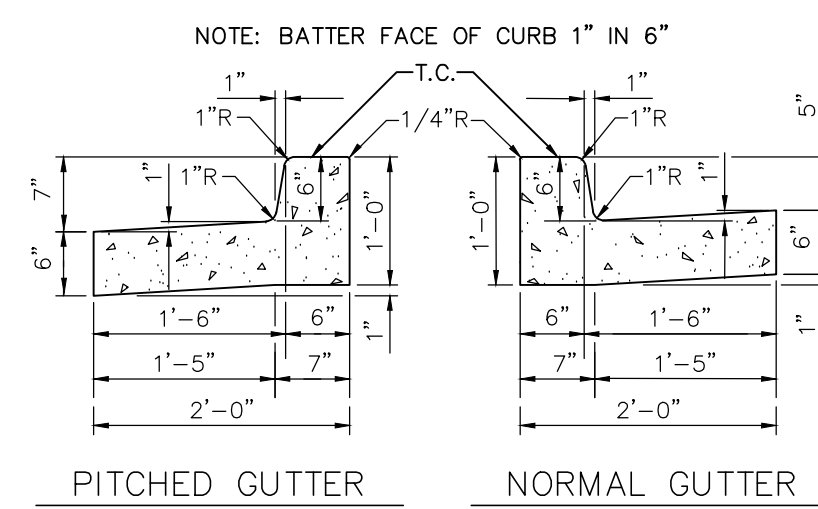
1 BIKE LANE STRIPING
 C5.1 NOT TO SCALE NOTE: ALL STRIPING PER SCDOT MUTCD.



2 CONCRETE PAVEMENT - LIGHT DUTY
 C5.1 NOTES: NOT TO SCALE

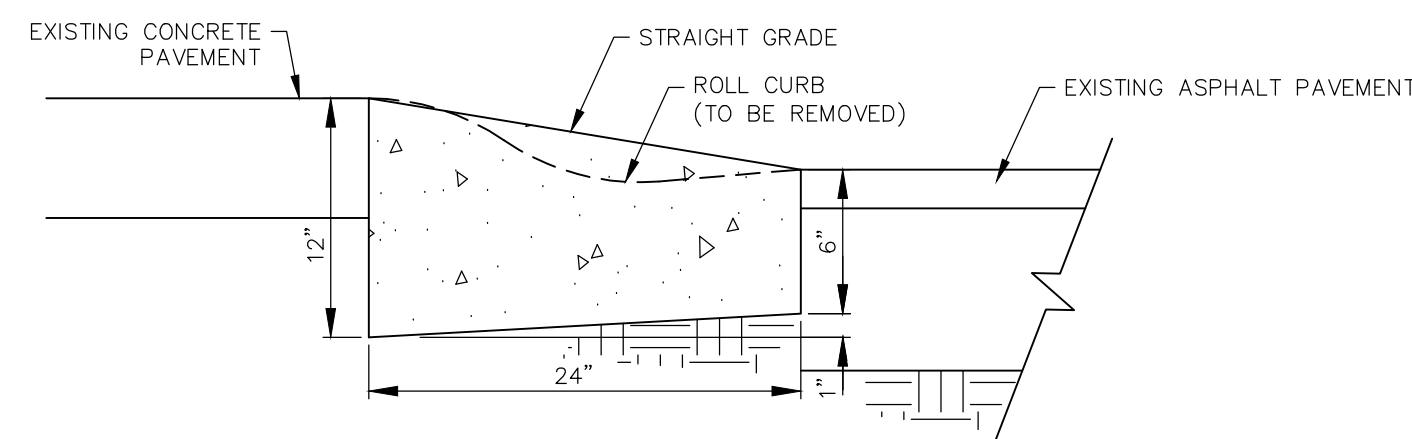


3 ASPHALT PAVEMENT
 C5.1 NOT TO SCALE



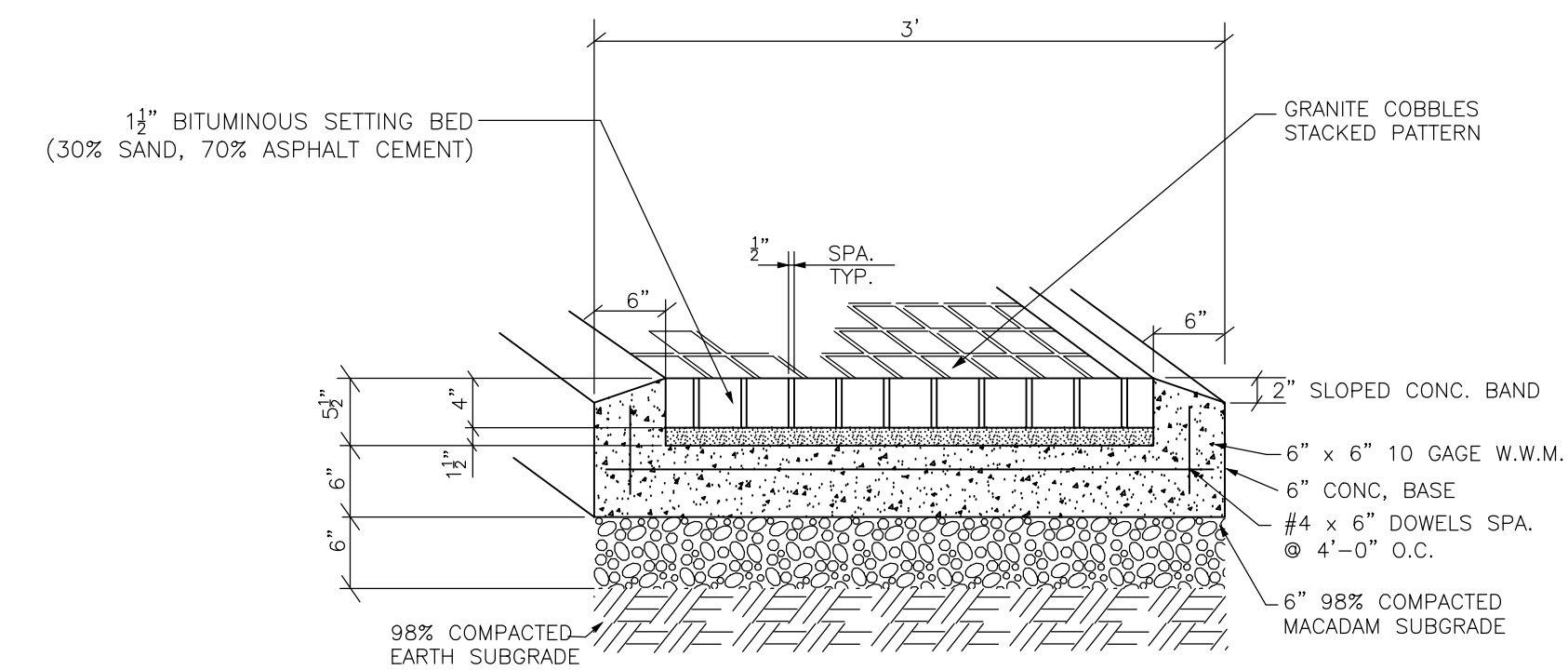
4 24" CURB AND GUTTER
 C5.1 NOT TO SCALE

NOTES:
 1. CURB AND GUTTER TO BE CONSTRUCTED IN 10-FOOT LENGTHS.
 2. 1/2 INCH EXPANSION JOINT SHALL BE PROVIDED AT INTERVALS NOT TO EXCEED 100 FEET, AT THE ENDS AND MID-POINT OF RETURNS, AND AT ANY POINT WHERE THE NEW CURB AND GUTTER ABUTS OTHER CONCRETE STRUCTURES.
 3. 5-FOOT LONG TRANSITIONS SHALL BE PROVIDED BETWEEN NORMAL GUTTER AND PITCHED GUTTER, UNLESS OTHERWISE NOTED ON THE PAVING PLANS.

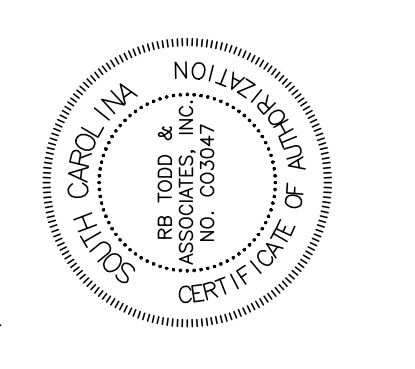


5 ROLLED CURB REPLACEMENT - ADD ALTERNATE NO. 1
 C5.1 NOTES: NOT TO SCALE

NOTES:
 1. REMOVE EXISTING ROLL CURB BETWEEN EXISTING ASPHALT PAVEMENT AND ELEVATED CROSSWALK. REPLACE WITH STRAIGHT GRADE CONCRETE RAMP BETWEEN EXISTING PAVEMENTS. COORDINATE WITH SHEET C2.1



6 GRANITE COBBLE MEDIAN
 C5.1 NOT TO SCALE



PROJECT TITLE
GREENE/SUMTER VEHICULAR IMPROVEMENTS II - DROP OFF

DRAWING TITLE
DETAILS

DRAWN BY: D.M.
 CHECKED BY: R.B.T.
 FILE:

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PROJECT NO. 15-444
 DATE 28 JUNE 2018
 DRAWING NO. **C5.1**