

USC Greene Street Pedestrian Improvements H27-6052



UNIVERSITY OF SOUTH CAROLINA
COLUMBIA, SOUTH CAROLINA

INDEX OF DRAWINGS

C1.1	EXISTING CONDITIONS & DEMOLITION PLAN
C2.1	STAKING PLAN
C3.1	GRADING PLAN
C4.1	SWPPP
C5.1	DETAILS
L-1	PLANTING PLAN
L-2	PLANTING DETAILS
L-3	SITE DETAILS
I-1	IRRIGATION PLAN
I-2	IRRIGATION DETAILS
E001	ELECTRICAL NOTES, SCHEDULES, DETAILS
ES100	ELECTRICAL SITE DEMOLITION PLAN
ES101	ELECTRICAL SITE PLAN-NEW WORK

OWNER:
USC FACILITIES
743 GREENE STREET
COLUMBIA, SC 29208
(803) 777-7592

CIVIL ENGINEER:
RB TODD & ASSOCIATES
7436 BROAD RIVER ROAD, STE. 212
IRMO, SC 29063
(803) 781-3141

LANDSCAPE ARCHITECT:
GRIMBALL COTTERILL
600 BELTLINE BOULEVARD
COLUMBIA, SC 29205
(803) 738-9525

ELECTRICAL ENGINEER:
GWA
AVE.
COLUMBIA, SC 29210
(803) 252-6919

5/6/2016

PLAN SET NO.

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: EFJONES@FMC.SC.EDU
TMS: R11304-05-01
ZONING: C-1
DEVELOPMENT ADDRESS: E/S SUMTER STREET COLUMBIA, SC, 29208
TOTAL ACREAGE: 100+ ACRES
DISTURBED AREA: 0.22 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

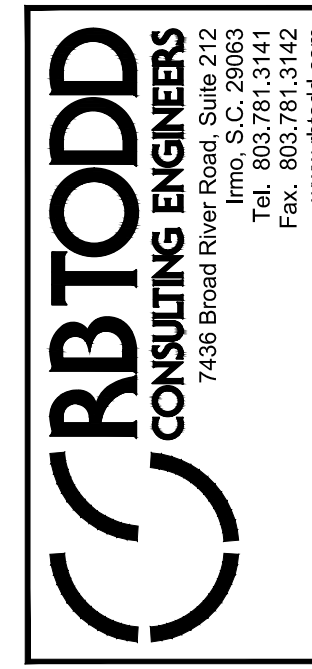
- UTILITY LINE NOT LOCATED BY SURVEY BUT SHOWN ON USC MASTER UTILITY DRAWING.
- REMOVE EXISTING PAVERS EAST OF PROJECTED EDGE OF PAVERS TO REMAIN.
- EXISTING 24" CONCRETE GUTTER PAVED WITH ASPHALT.
- SAWCUT EXISTING CURB AND GUTTER AT TANGENTS INDICATED AND CONTINUE SAWCUT THROUGH ASPHALT PAVEMENT. REMOVE PAVEMENT WEST OF SAWCUT.
- SAWCUT AND REMOVE EXISTING CURB AND GUTTER AND CONCRETE BIKE LANE PAVEMENT STARTING AT PROJECTED WESTERN EDGE OF EXISTING COLUMN.
- SAWCUT EXISTING CURB AND GUTTER AT PROJECTED END OF EXISTING CONCRETE BIKE PATH. COORDINATE WITH SHEET C2.1 FOR CONNECTION OF NEW CURB AND GUTTER.
- REMOVE EXISTING SIDEWALK CONNECTORS AS INDICATED.
- REMOVE EXISTING PAVERS AND INSTALL NEW LANDSCAPING. COORDINATE WITH LANDSCAPE PLANS.
- RELOCATE EXISTING LIGHT POLES (4) TO NORTH SIDE OF NEW CURB. COORDINATE WITH ELECTRICAL PLANS.
- SAWCUT EXISTING CURB AND GUTTER AND ASPHALT PAVEMENT FROM PROPERTY LINE ON SOUTH SIDE TO EASTERN SIDE OF EXISTING CURB INLET ON NORTHERN SIDE.
- REMOVE EXISTING CURB INLET FRAME AND GRATE. CONVERT TOP TO MANHOLE FRAME AND LID. ADJUST LID ELEVATION TO MATCH NEW GRADES COORDINATE WITH SHEET C3.1.
- REMOVE EXISTING CONCRETE DRIVE AT PROJECTED SOUTHERN EDGE OF EXISTING SIDEWALK AT LONGITUDINAL JOINT.
- RELOCATE EMERGENCY CALL BOX. COORDINATE WITH ELECTRICAL PLANS AND USC.

KEY NOTES (CONT.)

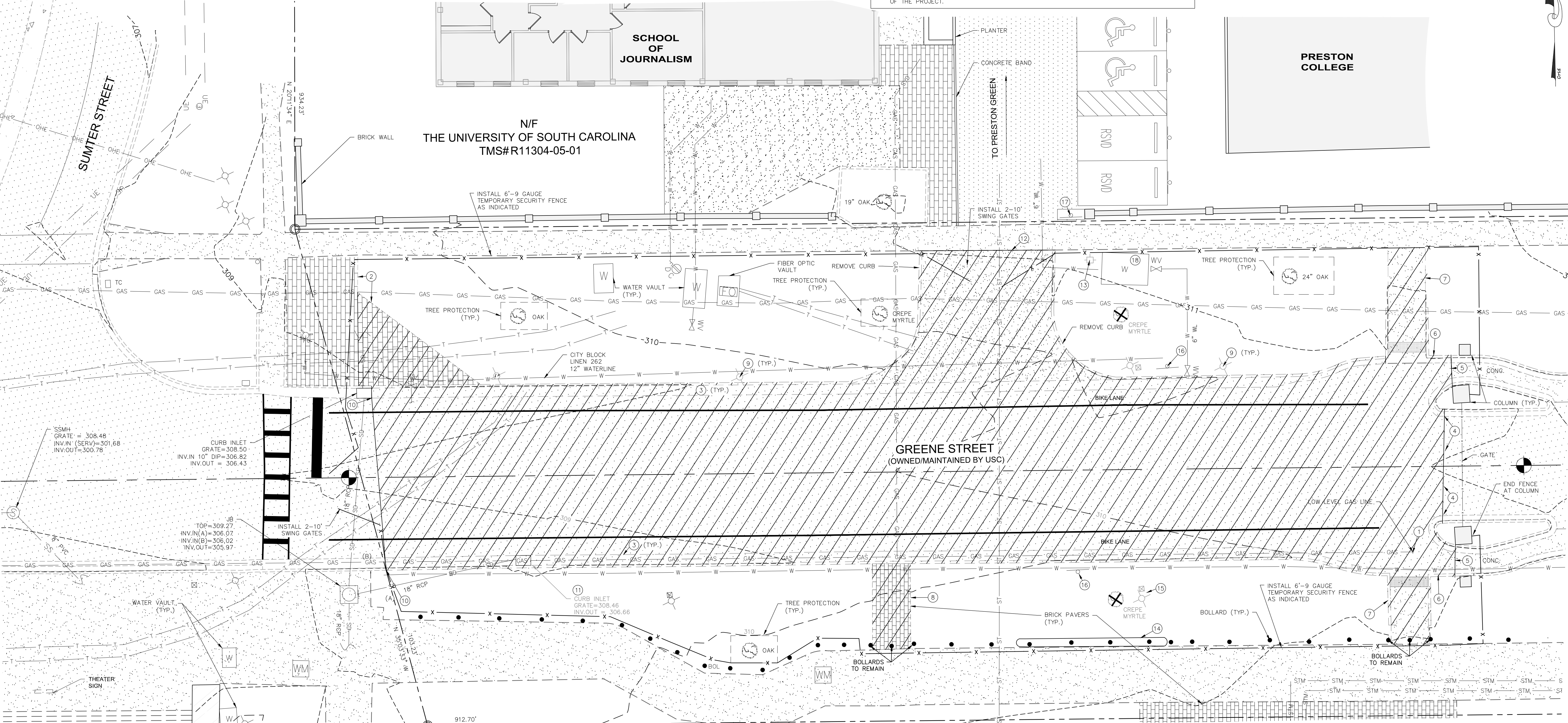
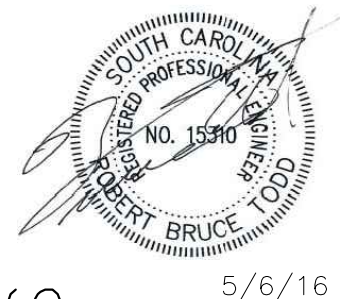
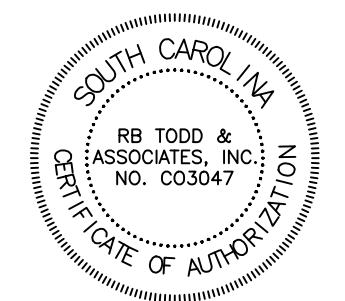
- REMOVE EXISTING BOLLARDS (4) INDICATED AND ASSOCIATED CHAINS. DELIVERS BOLLARDS TO USC.
- RELOCATE EXISTING LIGHT POLE EAST OF PROPOSED SIDEWALK IMPROVEMENTS. COORDINATE WITH SHEET C2.1 AND ELECTRICAL PLANS.
- REMOVE EXISTING "NO PARKING" SIGNS AND STORE FOR RE-INSTALLATION.
- EXISTING PARKING LOT SIGN. REMOVE SIGN AND RELOCATE CLOSE TO BRICK WALL. COORDINATE WITH USC.
- REMOVE EXISTING METAL PLATE OVER METER PIT. ADJUST METER PIT WALL ELEVATIONS TO ACCOMMODATE NEW METER PIT TOP ELEVATION FLUSH WITH NEW PAVERS. SEE SHEET C2.1 AND C3.1.

TRAFFIC CONTROL/SECURITY FENCE NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALLOWING A MINIMUM OF ONE PASSABLE VEHICULAR LANE TO AND FROM PRESTON GREEN. COORDINATE WITH USC (EMILY JONES: 777-4674) A MINIMUM OF 48 HOURS PRIOR TO CLOSING ACCESS TO PRESTON GREEN WHEN COMPLETING DRIVEWAY CONNECTION. SEE SHEET C2.1 AND C3.1.
- ADJUST SECURITY FENCE AND GATES AS NEEDED TO PROMOTE CONSTRUCTION WITHOUT IMPEDING PEDESTRIAN TRAFFIC.
- PROVIDE ADEQUATE SIGNAGE TO DIRECT AND INFORM PEDESTRIAN TRAFFIC AT ALL TIMES.
- PEDESTRIAN TRAFFIC SHALL BE PROTECTED BY A DIRECTION BARRICADE WHERE THE PEDESTRIAN WALKWAY EXTENDS INTO THE STREET. THE DIRECTIONAL BARRICADE SHALL BE OF SUFFICIENT SIZE AND CONSTRUCTION TO DIRECT VEHICULAR TRAFFIC AWAY FROM THE PEDESTRIAN PATH.
- COMPLY WITH ALL CONSTRUCTION SAFEGUARD REQUIREMENT OF ICB 2012, CHAPTER 33, LOCAL AHJ, AND SC OSE FOR THE ENTIRE DURATION OF THE PROJECT.



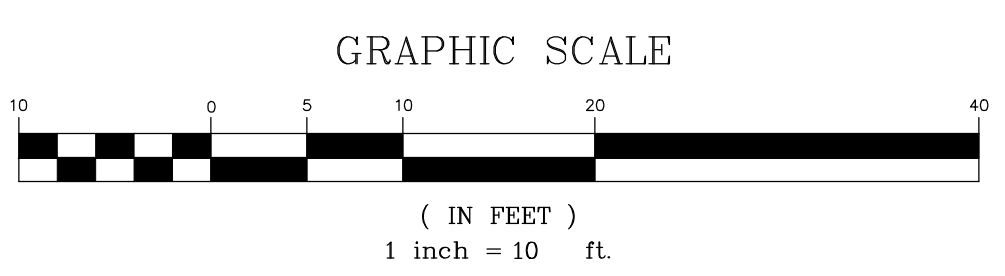
Date	Revisions



The Palmetto Utility Protection Service, Inc.
1411 Park Square Blvd., Suite 200 Columbia, South Carolina 29204 (803) 781-1111

South Carolina 811
Call 811 Before you Dig

3 DAYS BEFORE DIGGING IN SOUTH CAROLINA
CALL 811
CONTRACTOR SHALL CONTACT THE UNDERGROUND LOCATORS EVERY 10 DAYS FOR AN UPDATE TO UTILITY LOCATIONS.



GRIMBALL GREENE STREET PEDESTRIAN IMPROVEMENTS
& ASSOCIATES
COTTERILL

LANDSCAPE ARCHITECTS & LAND PLANNERS
600 BELTLINE BOULEVARD COLUMBIA, SC 29205 (803)788-9225

5/6/16

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Drawn by:	TLC
Checked by:	RBT
Date:	5/6/16
Drawing No.	C1.1
Sheet No.	OF

S:\PROJECTS\15444 USC GREENE STREET IMPROVEMENTS\DRAWINGS\CIVIL\160517\160517.DWG - 5/17/2016

NEW	EXISTING	DESCRIPTION
N/A		BENCHMARK/CONTROL POINT
N/A		BUILDING
N/A		LIGHT POLE
		CURB AND GUTTER (BARRIER) CURB AND GUTTER (ROLL)
	N/A	CONCRETE PAVEMENT-VEHICULAR
		CONCRETE PAVEMENT-BIKE LANE BITUMINOUS SURFACE
N/A		TREE
	N/A	KEY NOTE REFERENCE
		BOLLARDS
	N/A	BIKE LANE STRIPING

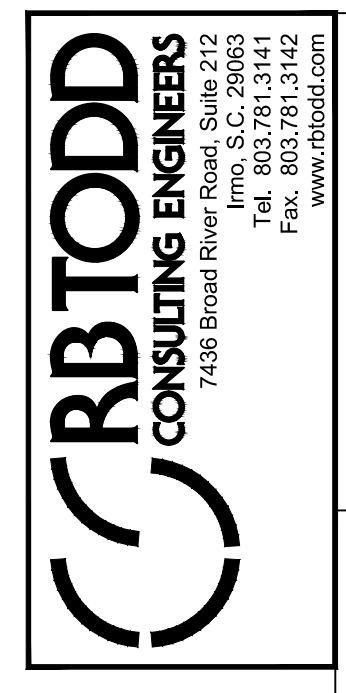
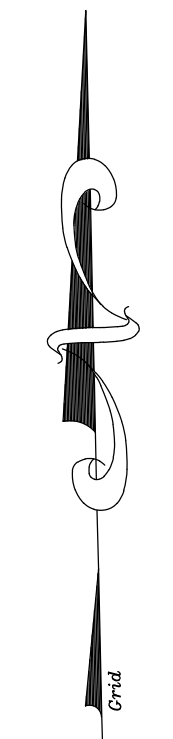
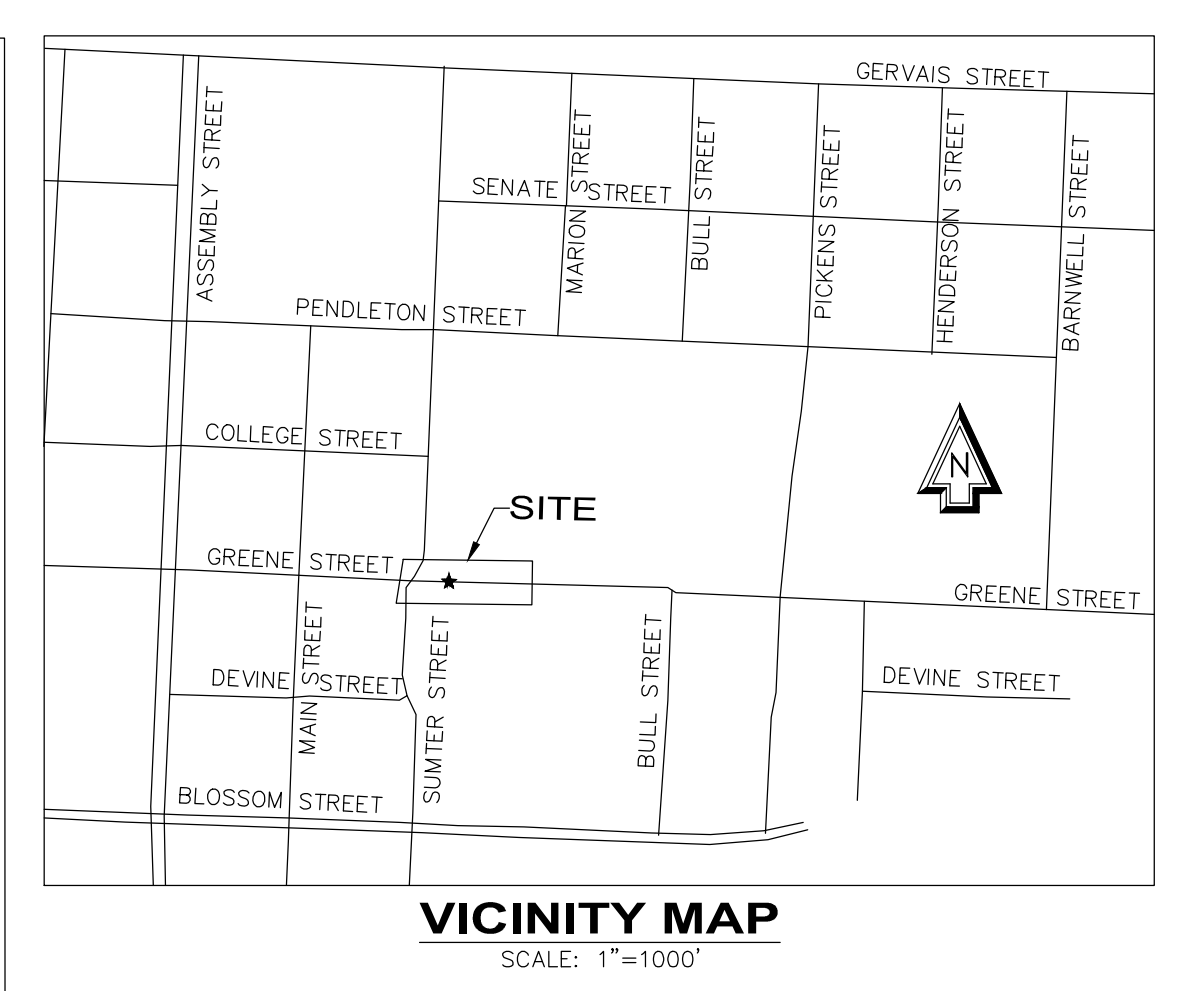
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2	RADIUS	786981.9704	1991138.4932
3	RADIUS	787062.4202	1991181.7843
4	RADIUS	787024.7853	1991225.3905
5	RADIUS	787012.0922	1991136.1796
6	RADIUS	786937.0922	1991136.1491

GENERAL NOTES

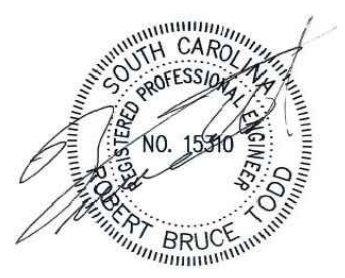
- SEE SHEET C1.1 FOR ADDITIONAL GENERAL NOTES.
- ALL DIMENSIONS ARE MEASURED TO THE FACE OF CURB (BARRIER CURBS), FACE OF GUTTER (ROLL CURBS), CENTERLINE OF PAINT STRIPES, EDGE OF SIDEWALK OR EDGE OF PAVERS.

KEY NOTES

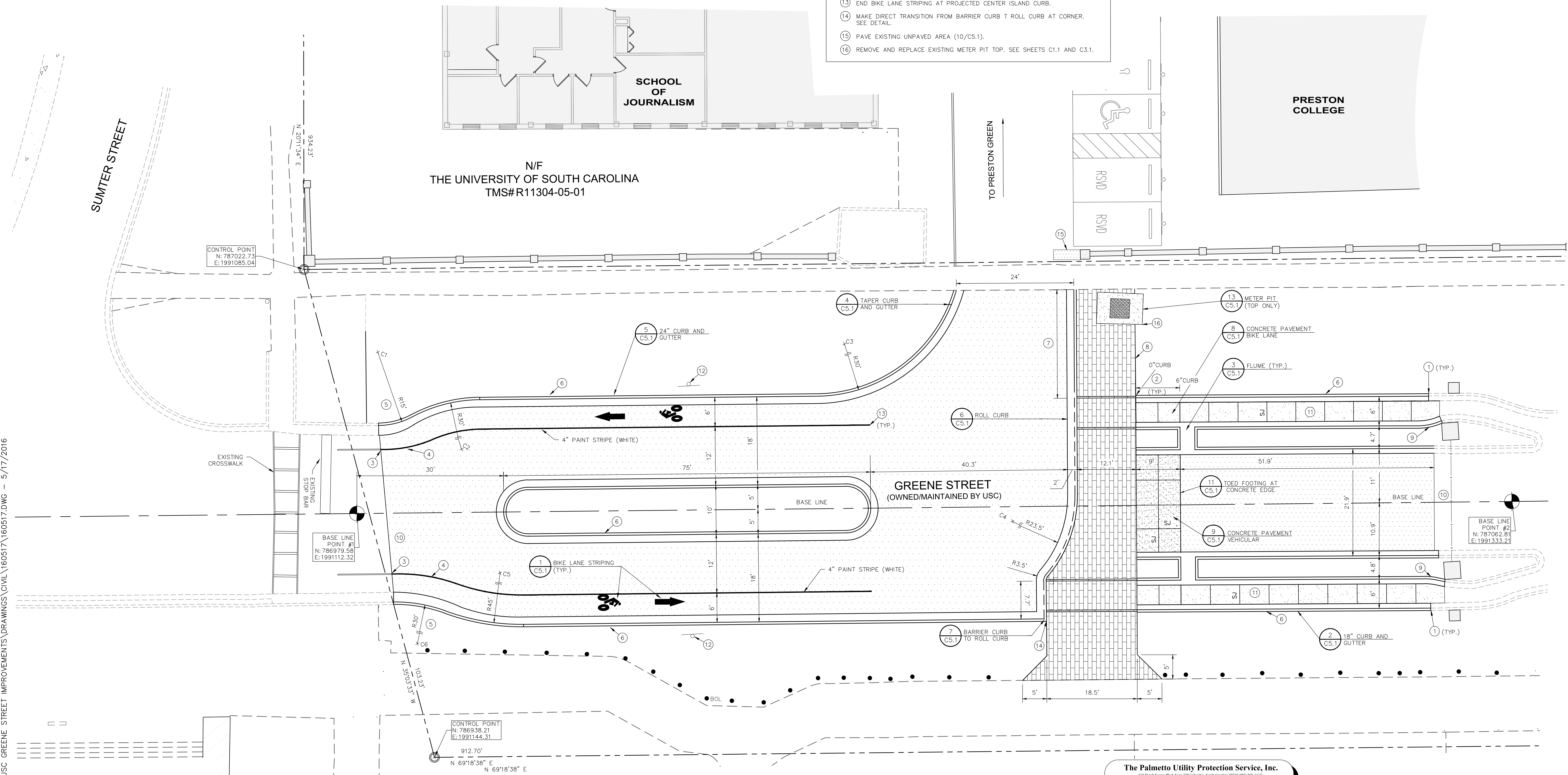
- CONNECT NEW CURB AND GUTTER TO END OF EXISTING. NOTCH EXISTING SECTION PROFILE.
- TAPER CURB FROM 6" (EAST) TO 0" (WEST). COORDINATE WITH SHEET C3.1.
- CONNECT NEW BIKE LANE STRIPING TO EXISTING.
- OFFSET BIKE PATCH STRIPING PARALLEL WITH CURB.
- TRANSITION FROM EXISTING 24" GUTTER TO NEW 18" GUTTER ALONG CURVE.
- CURB AND GUTTER SECTIONS WEST OF PAVERS ARE 24" (18" GUTTER). CURB AND GUTTER SECTIONS EAST OF PAVERS ARE 18" (12" GUTTER).
- TRANSITION NORTHWARD FROM ROLL CURB TO BARRIER CURB STARTING AT PROJECTED BIKE LANE PAVEMENT STRIP. TAPER CURB TO 0" FROM SOUTHERN END AT BIKE LANE (6") TO EDGE OF SIDEWALK ON NORTHERN END (0").
- SEE LANDSCAPE ARCHITECTURE PLANS FOR DETAILED INFORMATION ON PAVERS.
- INSTALL NEW PAVEMENT FLUSH WITH EXISTING.
- CONCRETE FOR BIKE LANES TO BE COLORED (GREY) TO MATCH EXISTING CONCRETE. SCORE AS INDICATED.
- INSTALL "NO PARKING" SIGN REMOVED UNDER DEMOLITION PHASE.
- END BIKE LANE STRIPING AT PROJECTED CENTER ISLAND CURB.
- MAKE DIRECT TRANSITION FROM BARRIER CURB TO ROLL CURB AT CORNER. SEE DETAIL.
- PAVE EXISTING UNPAVED AREA (10/C5.1).
- REMOVE AND REPLACE EXISTING METER PIT TOP. SEE SHEETS C1.1 AND C3.1.



Date	Revisions



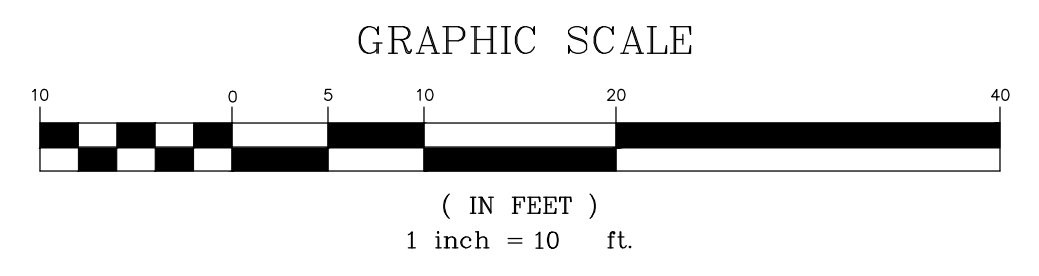
5/6/16



GRIMBALL & ASSOCIATES COTTERILL
 LANDSCAPE ARCHITECTS & LAND PLANNERS
 600 BELTLINE BOULEVARD COLUMBIA, SC 29205 (803)798-9925
 GREENE STREET PEDESTRIAN IMPROVEMENTS STAKING PLAN
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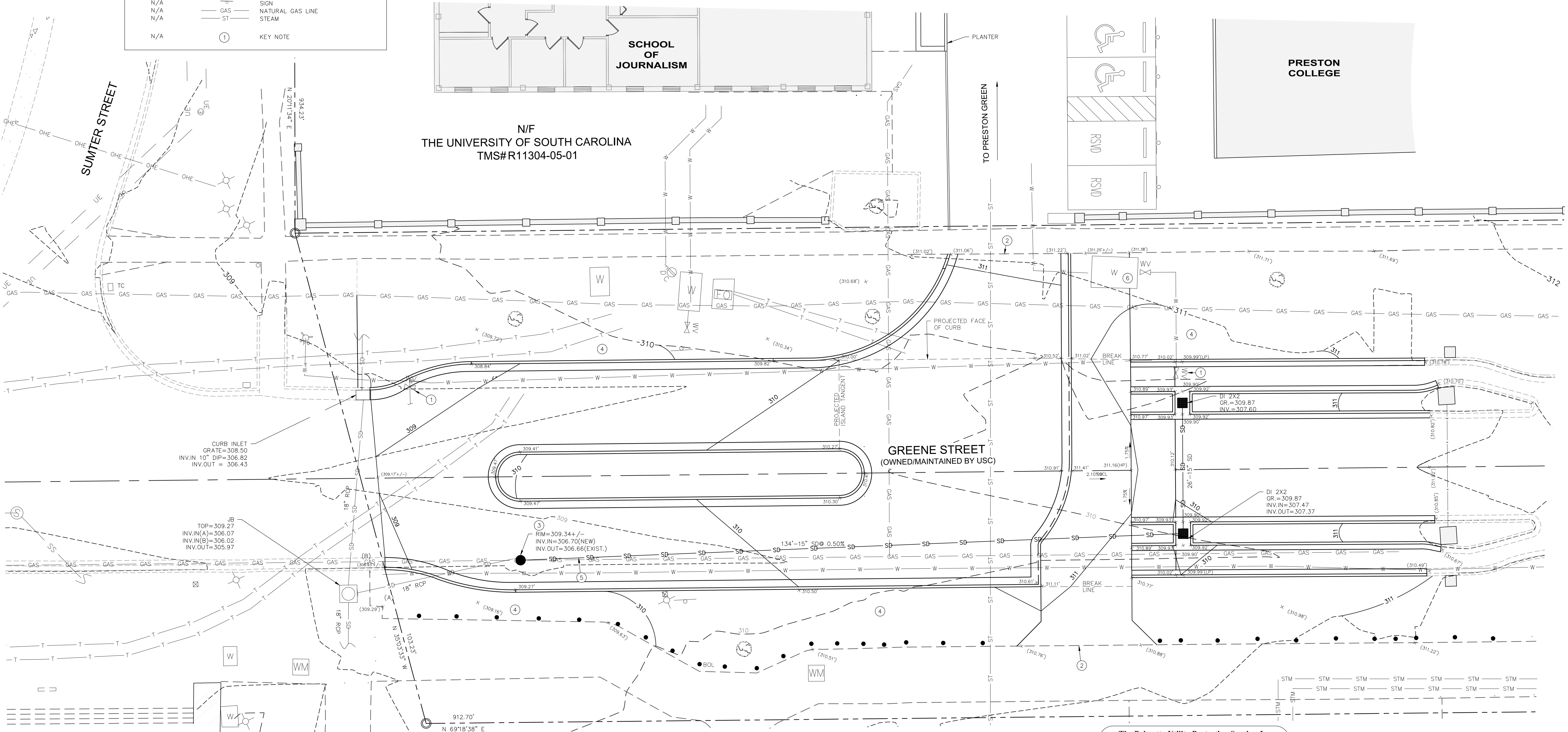
Drawn by:	TLC
Checked by:	RBT
Date:	5/6/16
Drawing No.	C2.1
Sheet No.	OF

NEW	EXISTING	DESCRIPTION
N/A		BENCHMARK/CONTROL POINT
N/A		BUILDING
N/A		LIGHT POLE
N/A		CURB AND GUTTER
		CONCRETE SIDEWALK
		BITUMINOUS SURFACE
N/A		CONTOUR
N/A		SPOT ELEVATION
N/A		WATER VALVE
N/A		FIRE HYDRANT
N/A		PAVEMENT BOLLARDS
SD		STORM DRAINAGE LINE
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		KEY NOTE

- KEY NOTES**
- ADJUST EXISTING WATER VALVE BOX ELEVATION TO ACCOMMODATE NEW GRADES.
 - INSTALL PAVERS FLUSH WITH EXISTING SIDEWALK.
 - EXISTING CURB INLET CONVERTED TO JUNCTION BOX. COORDINATE WITH SHEET C11.
 - SEE LANDSCAPE IMPROVEMENTS THIS AREA.
 - CONFIRM LOCATION OF EXISTING GAS LINE AND COORDINATE WITH UTILITY OWNER AS NEEDED FOR RELOCATION OF UTILITY.
 - ADJUST NEW METER PIT TOP TO SET FLUSH WITH NEW PAVERS.



VICINITY MAP
SCALE: 1"=1000'



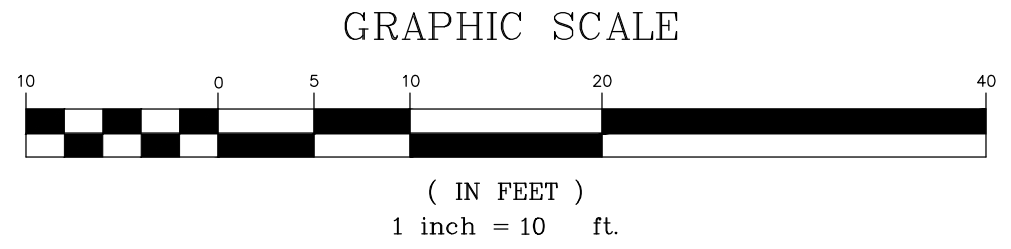
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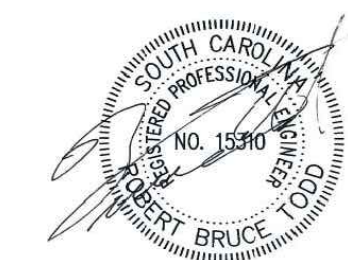
Drawn by:	TLC
Checked by:	RBT
Date:	5/6/16
Drawing No.	C3.1
Sheet No.	OF

GRIMBALL & ASSOCIATES COTTERILL
GREENE STREET PEDESTRIAN IMPROVEMENTS
GRADING PLAN

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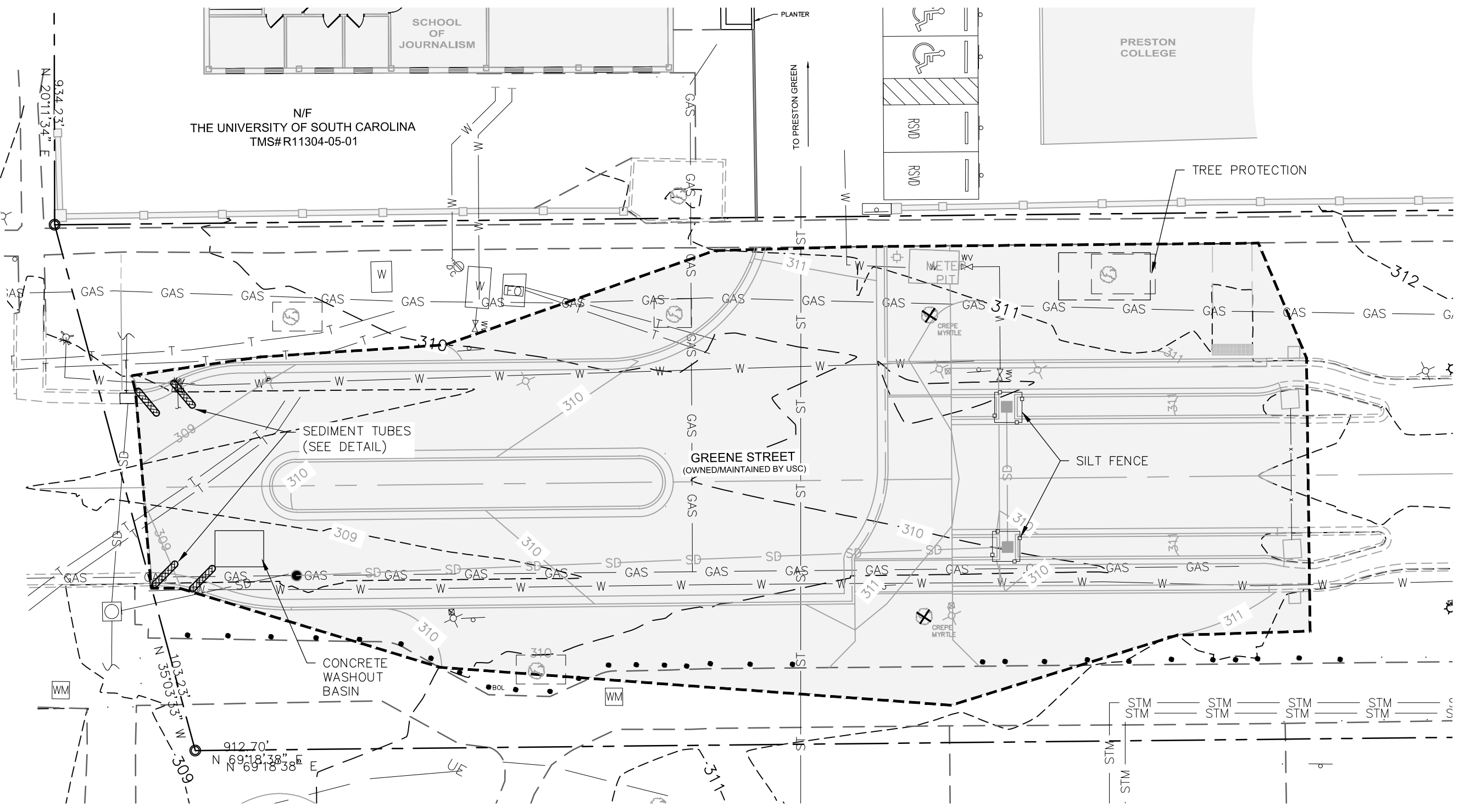
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7438 Broad River Road, Suite 212
Irmo, S.C. 29063
Tel. 803.781.3141
Fax. 803.781.3142
www.rbtodd.com



Date

Revisions



MATERIALS
 USE FILTER FABRIC THAT CONFORMS TO SCOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION). REFER TO THE SILT FENCE GEOTEXTILE FABRICS APPROVAL SHEET #54.

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.

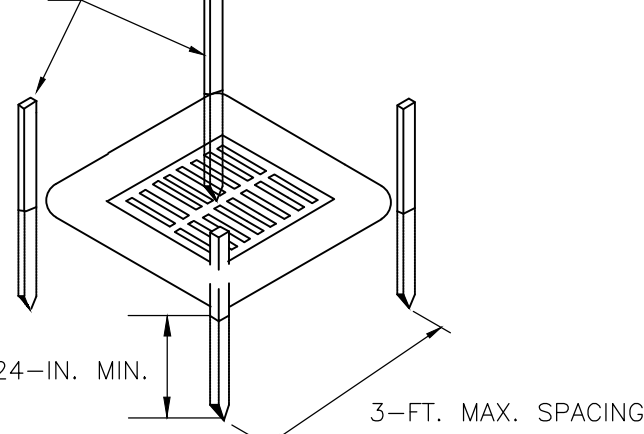
ATTACH FABRIC TO STEEL POSTS WITH HEAVY-DUTY PLASTIC TIES.

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 PUMP 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.

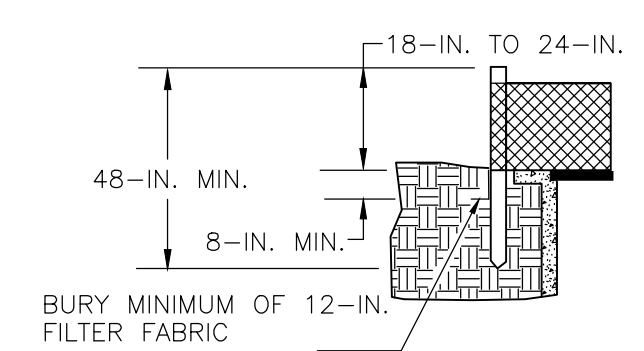
STORM DRAIN INLET PROTECTION STRUCTURES SHOULD BE REMOVED ONLY AFTER THE DISTURBED AREAS ARE PERMANENTLY STABILIZED. REMOVE ALL CONSTRUCTION MATERIAL AND SEDIMENT, AND DISPOSE OF THEM PROPERLY. GRADE THE DISTURBED AREA TO THE ELEVATION OF THE DRAIN INLET STRUCTURE. USE APPROPRIATE PERMANENT STABILIZATION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

2-IN. X 2-IN. WOOD POSTS
 OR
 1.25 LB./LINEAR FT.
 STEEL POSTS



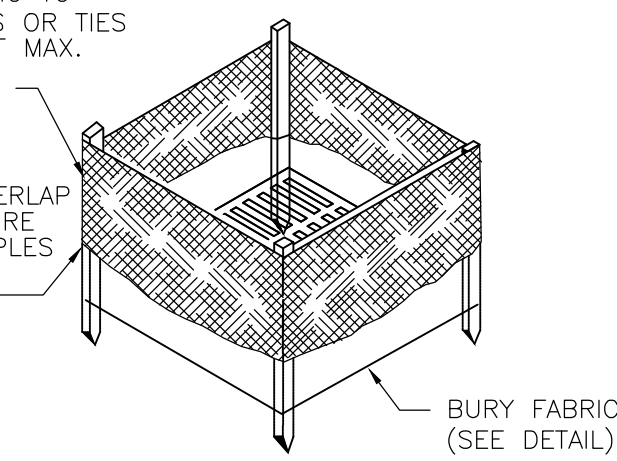
POST INSTALLATION DETAIL

ATTACH FILTER FABRIC TO POSTS WITH STAPLES OR TIES SPACED 6-IN. APART MAX.



FILTER FABRIC BURIAL DETAIL

FOLD FABRIC TO OVERLAP 6 INCHES AND SECURE TO POSTS WITH STAPLES OR WIRE TIES



FILTER FABRIC INSTALLATION DETAIL

TYPE A - FILTER FABRIC INLET PROTECTION

NOT TO SCALE

SIGNATURES AND CERTIFICATIONS

A. ONE COPY OF THE SWPPP, ALL SPECIFICATIONS, AND SUPPORTING CALCULATIONS, FORMS, AND REPORTS ARE HEREBY SUBMITTED AND MADE A PART OF THIS APPLICATION. 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. AND IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF SCRI00000. (THIS SHOULD BE THE PERSON IDENTIFIED IN SECTION V.A.)

Bruce Todd PE
 PRINTED NAME OF SWPPP PREPARER SIGNATURE OF SWPPP PREPARER 15310 S.C. REGISTRATION

B. I 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 IMPROVEMENT FOR THE SAME.

Thomas N. Opel PE
 PRINTED NAME OF PROJECT OWNER/OPERATOR SIGNATURE OF PROJECT OWNER/OPERATOR ASST. TRUCK DRIVER TITLE/POSITION

APPLICANT'S CERTIFICATION STATEMENT

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

16 May 2016 APPLICANT

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.

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER

AIRBORNE DUST CONTROL

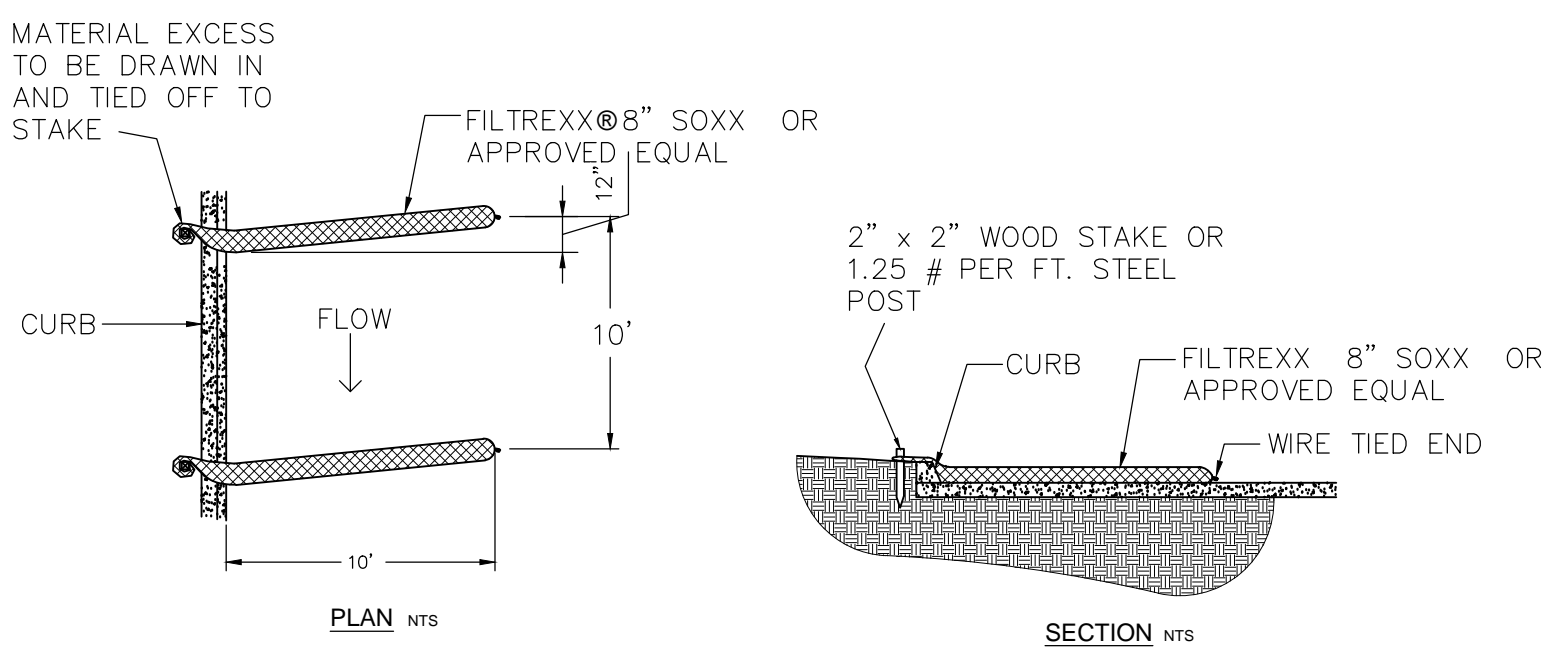
THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AS OUTLINED IN THE SOUTH CAROLINA DEHC STORMWATER MANAGEMENT BMP HANDBOOK AS NEEDED TO CONTROL AIRBORNE DUST DURING CONSTRUCTION. COORDINATE WITH ENGINEER PRIOR TO IMPLEMENTATION OF VARIOUS MEASURES.

PREDOMINANT SOIL TYPE

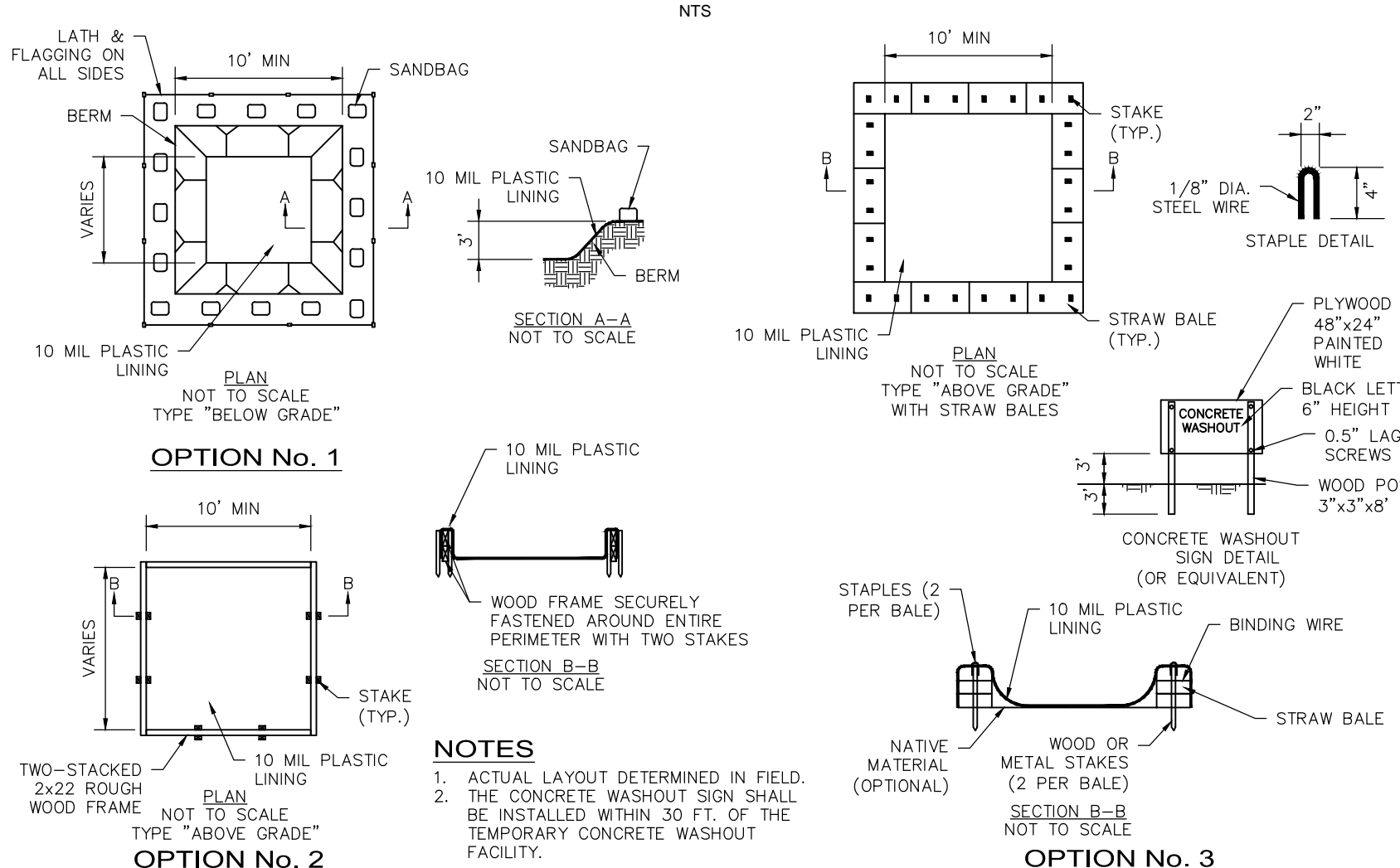
URBAN LAND Uf

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. SKRAPE EXISTING LAYER OF VEGETATION (MIN. 2" DEPTH) FROM CONSTRUCTION AREA AND DISPOSE OF OFFSITE.
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 UNTIL 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 AND RESUME WORK IS REQUIRED TO BE COMPLETED BEFORE THE 14-DAY PERIOD.
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".

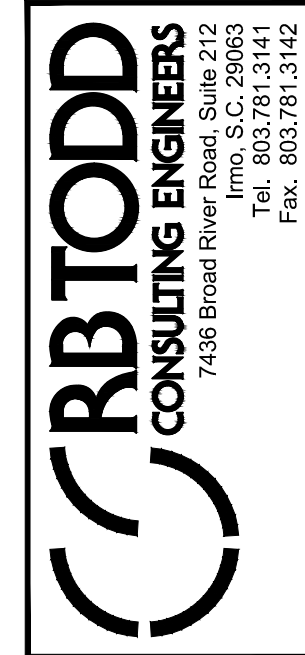
TEMPORARY DIVERSIONS

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

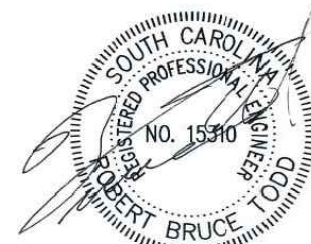
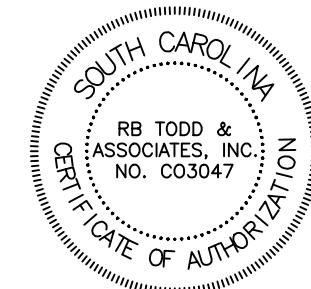
TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO PREVENT FLOW OF STORMWATER OVER DISTURBED AREA. TEMPORARY DIVERSIONS SHALL HAVE ADEQUATE CAPACITY AND TERMINATE INTO DENSE VEGETATION, ROCK RIPRAP, STORM STRUCTURES, OR SIMILAR MEASURES TO REDUCE EROSION AT THE OUTLET. TEMPORARY DIVERSION CHANNELS 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 RESTABILIZED 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 PERMITEE 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 INTENDED 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 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 GENERATOR 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-LOADED 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.

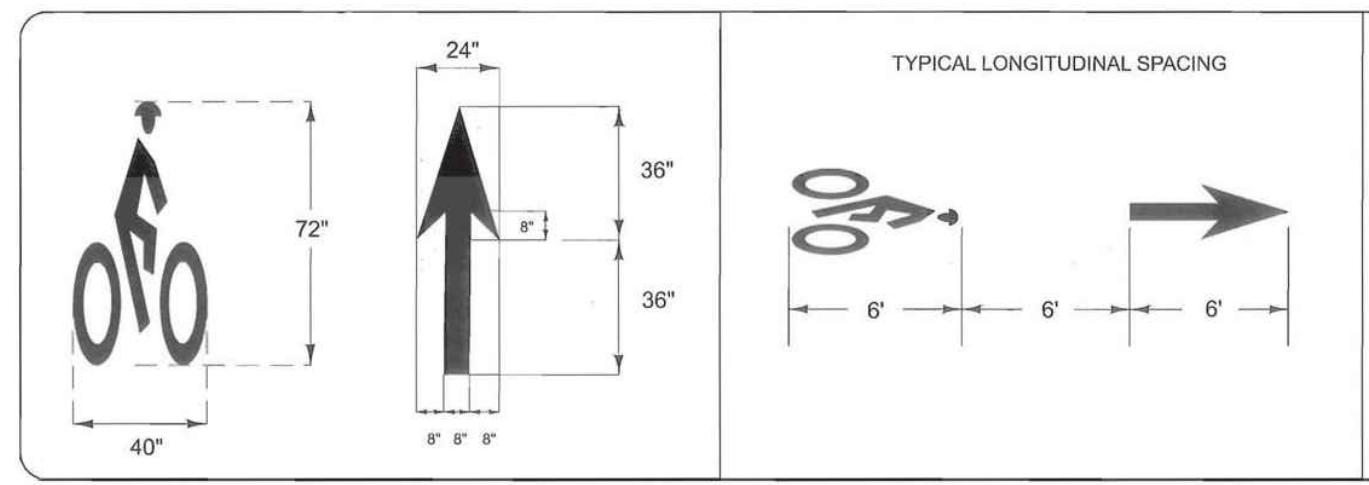


Date	Revisions

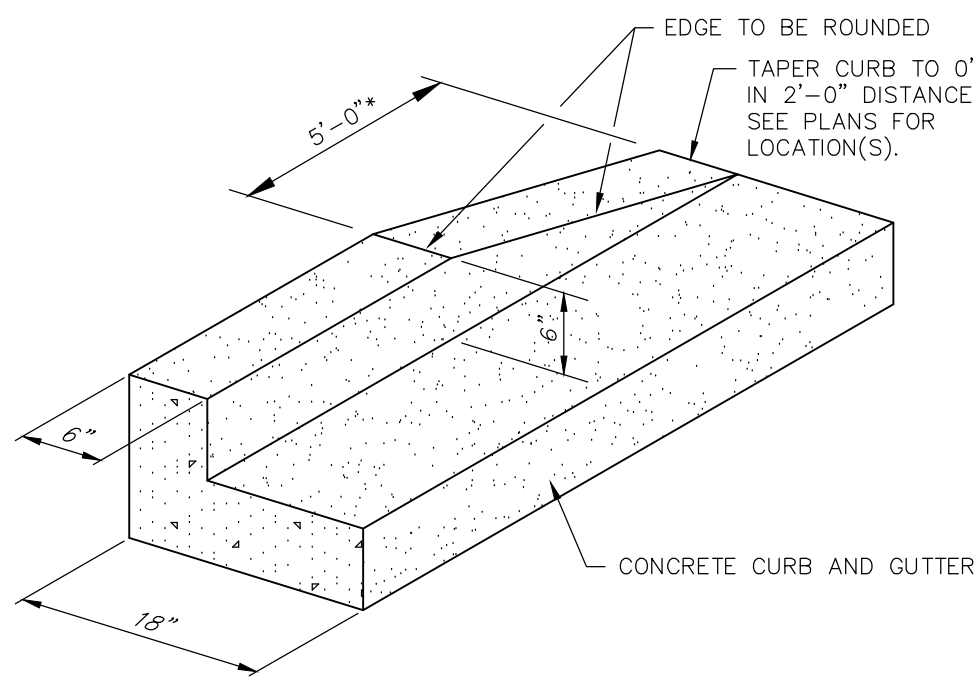


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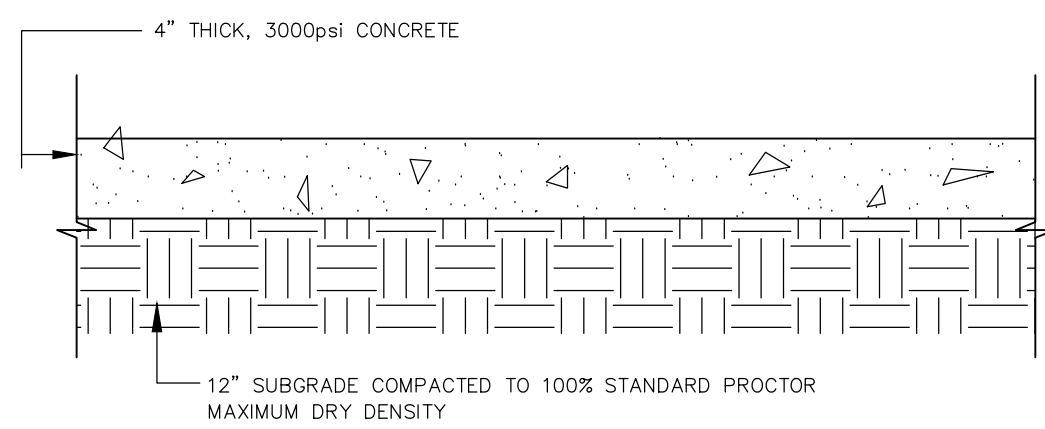
S:\PROJECTS\15444 USC GREENE STREET IMPROVEMENTS\DRAWINGS\CIVIL\160517.DWG - 5/17/2016



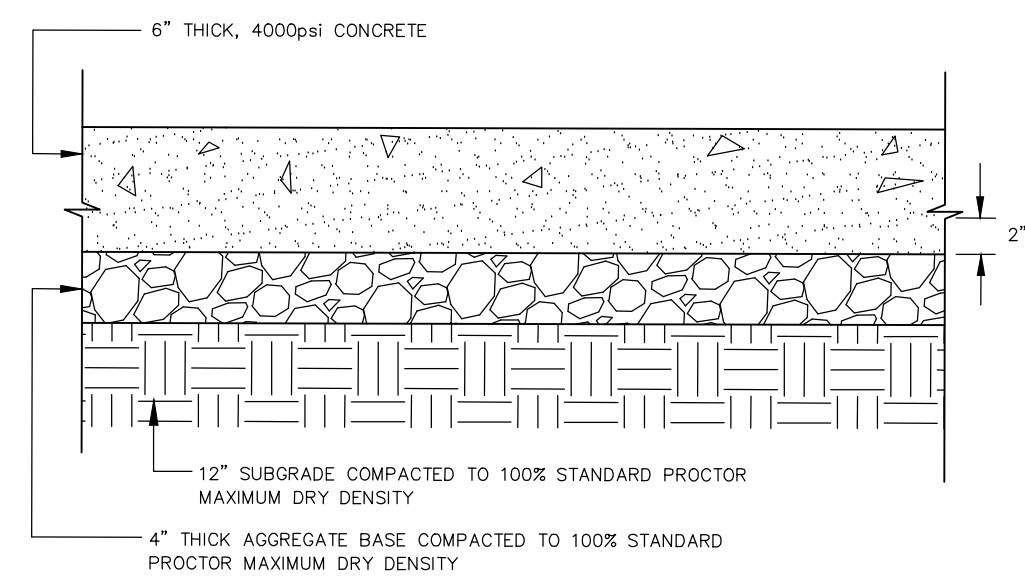
1 **C5.1** BIKE LANE STRIPING
NOT TO SCALE
NOTE: ALL STRIPING PER SCDOT MUTCD.



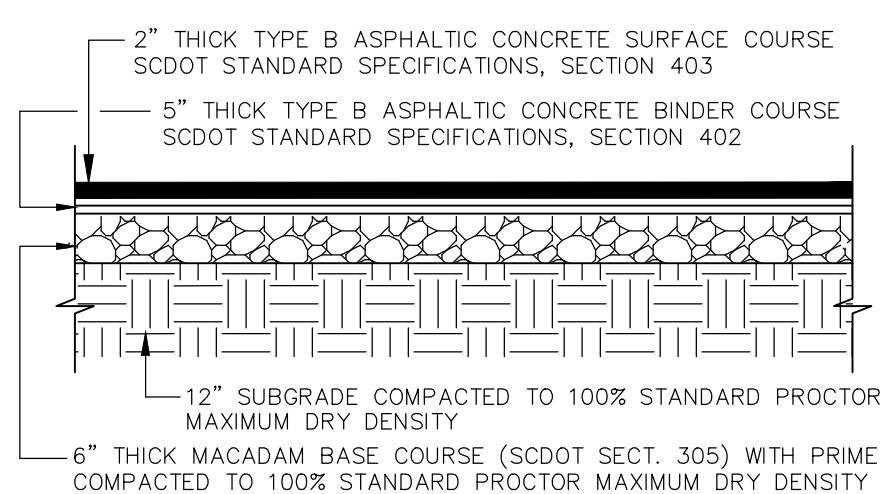
4 **C5.1** TAPERED CURB
NOT TO SCALE



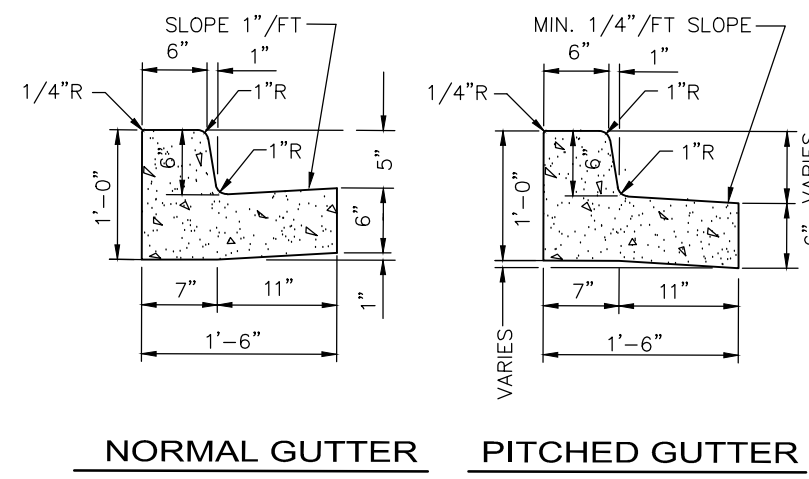
8 **C5.1** CONCRETE PAVEMENT - BIKE LANE
NOT TO SCALE
NOTES:
1. COLOR BIKE LANE CONCRETE GREY TO MATCH EXISTING.



9 **C5.1** CONCRETE PAVEMENT - VEHICULAR
NOT TO SCALE

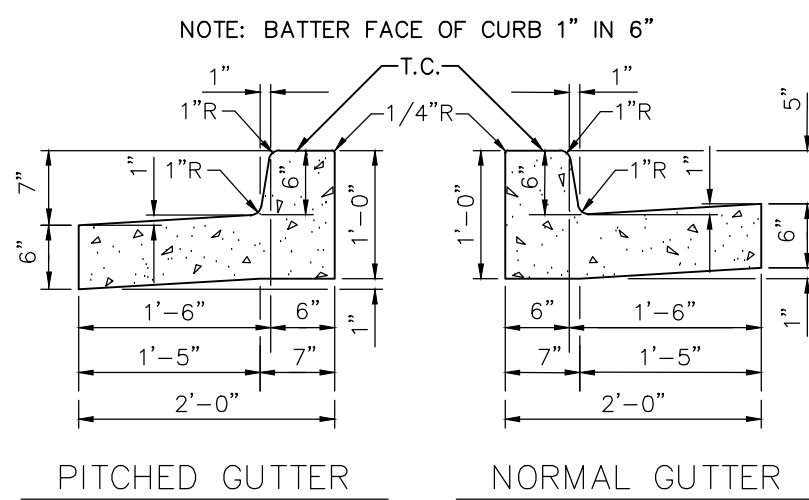


10 **C5.1** BITUMINOUS PAVEMENT
NOT TO SCALE



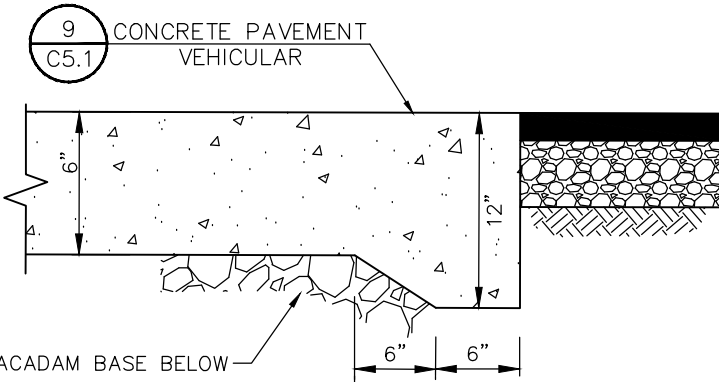
2 **C5.1** 18" CONCRETE CURB AND GUTTER
NOT TO SCALE

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

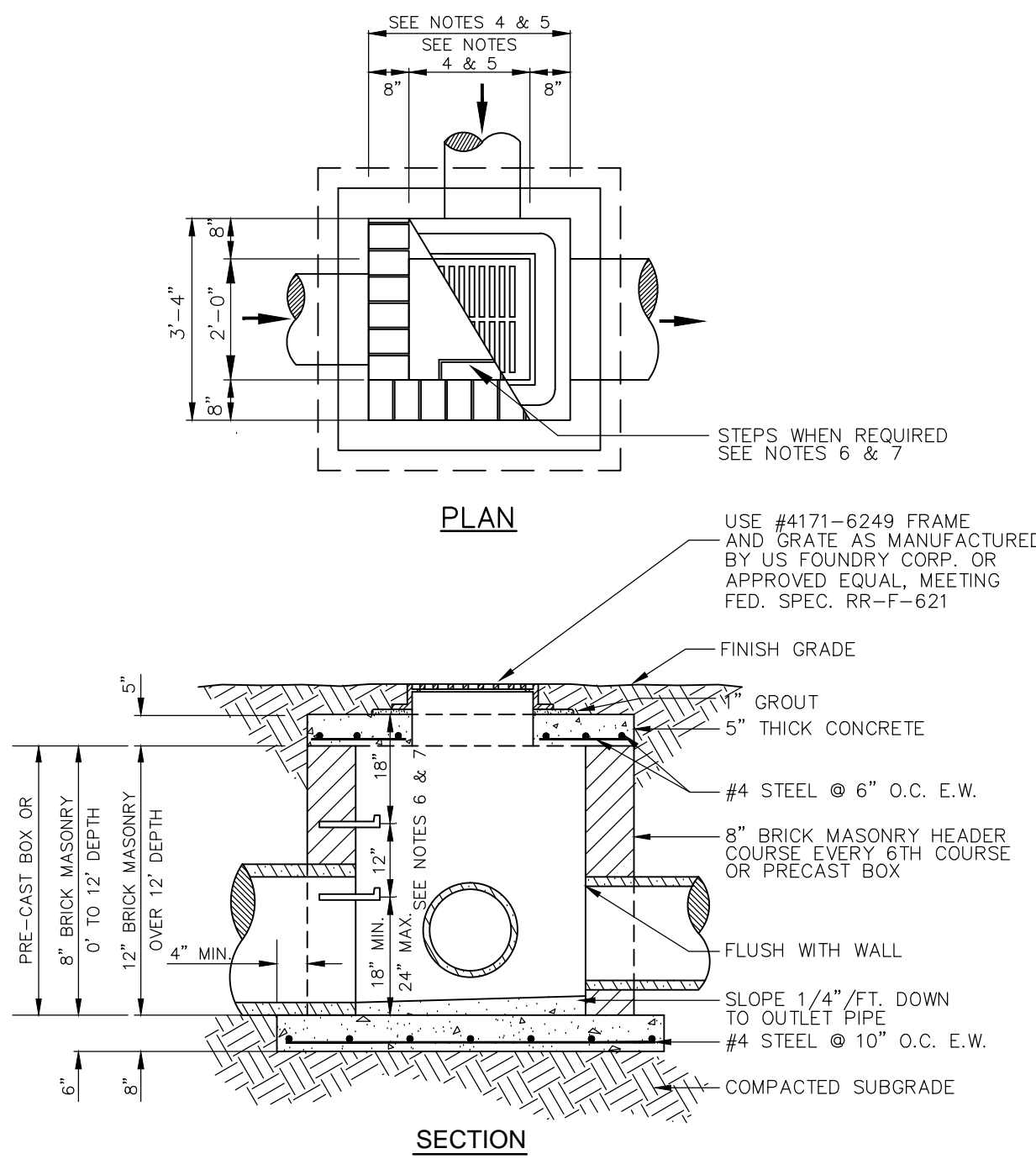


- NOTES:
1. CURB AND GUTTER TO BE CONSTRUCTED IN 10-FOOT LENGTHS.
2. 1/2 INCH EXPANSION JOINT SHALL BE PROVIDED AT INTERVALS NOT TO EXCEED 100 FEET, AT THE ENDS AND MID-POINT OF RETURNS, AND AT ANY POINT WHERE THE NEW CURB AND GUTTER ABUTS OTHER CONCRETE STRUCTURES.
3. 5-FOOT LONG TRANSITIONS SHALL BE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

5 **C5.1** 24" CURB AND GUTTER
NOT TO SCALE

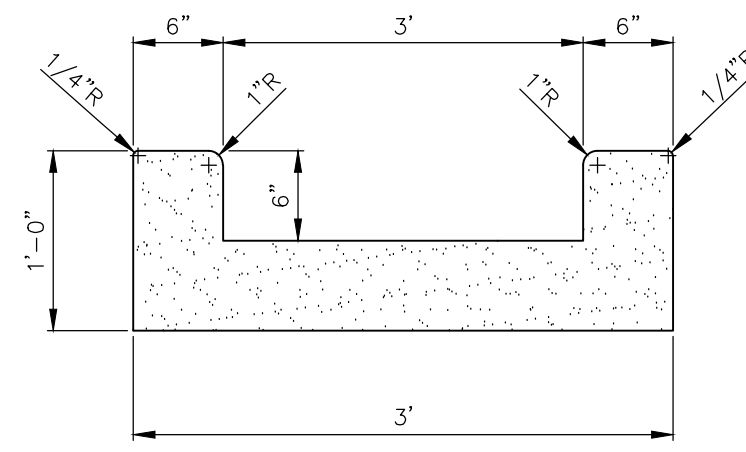


11 **C5.1** TOED FOOTING AT CONCRETE EDGE
NOT TO SCALE

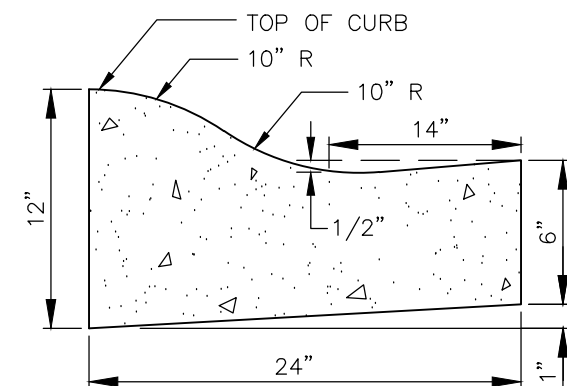


- NOTES:
1. ALL CONCRETE SHALL BE 3,000 PSI.
2. ENDS OF ALL PIPES SHALL BE FLUSH WITH INSIDE WALL.
3. ALL STEEL BARS SHALL BE PLACED 1-1/2" CLEAR FROM BOTTOM AND SIDES OF SLAB.
4. FOR 15" - 24" I.D. PIPES USE 3'-0" x 3'-0" BOX.
5. FOR PIPES OVER 24" I.D. BOX INSIDE DIMENSIONS SHALL BE PIPE O.D. + 6" EACH SIDE OF PIPE.
6. STEPS CONFORMING TO ASTM C478 SHALL BE REQUIRED WHEN STRUCTURE DEPTH IS GREATER THAN 4".
7. ALL STEPS SHALL BE PLACED 12" O/C AND PROTRUDE 4" FROM INSIDE FACE OF STRUCTURE WALL.
8. CONCRETE BRICK WALLS SHALL HAVE A 1/4" MORTAR COAT ON INSIDE SURFACE.
9. WALL THICKNESS IS TO BE 12" IF BOX DEPTH EXCEEDS 12'-0".
10. ALL MATERIALS AND CONSTRUCTION ARE TO COMPLY WITH SECTION 720 OF THE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
11. REINFORCED CONCRETE MAY BE SUBSTITUTED FOR BRICK WALLS. REINFORCING TO BE #4 BARS @ 12" E.W.

12 **C5.1** 2'x2' DROP INLET
NOT TO SCALE

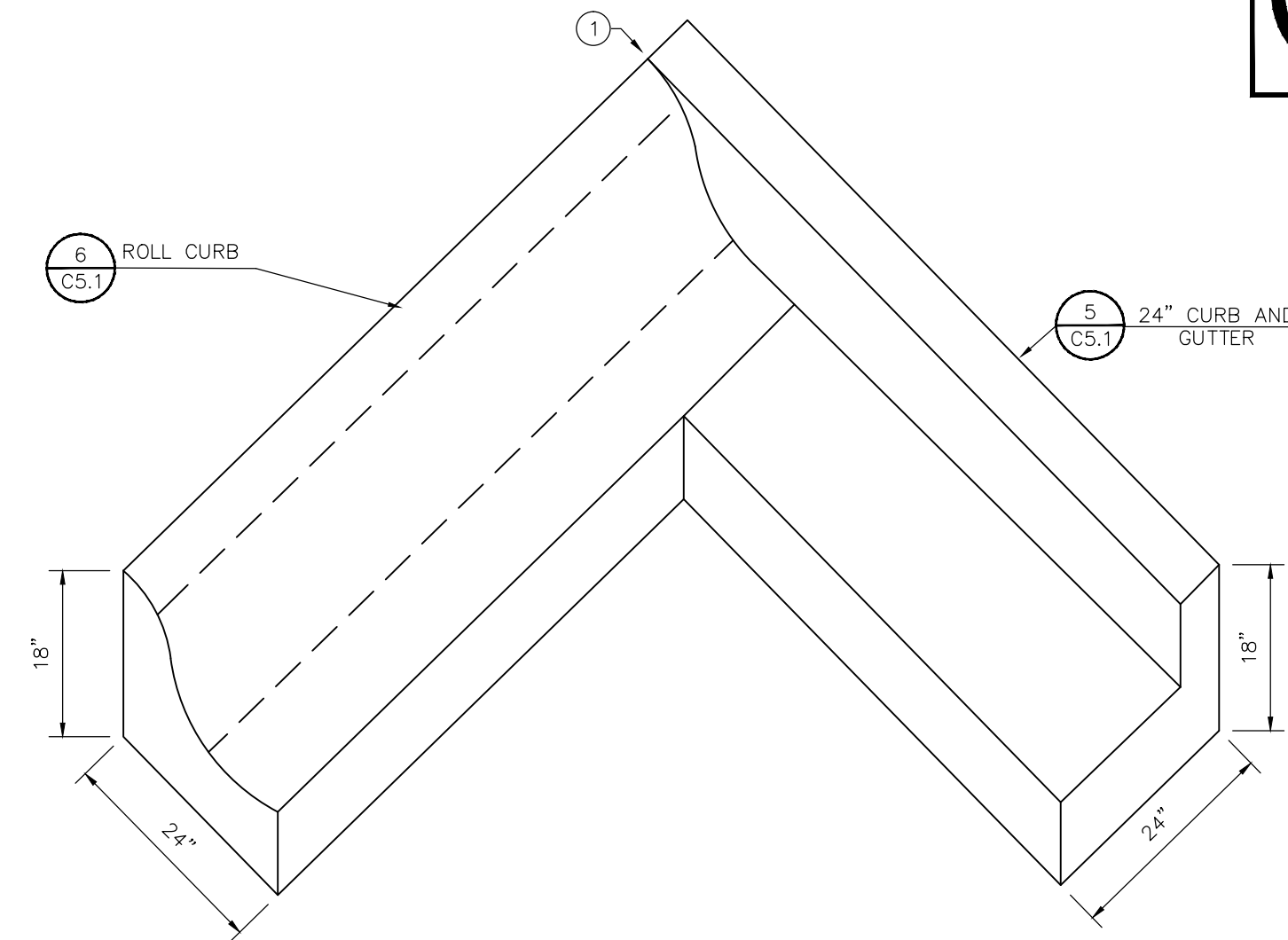


3 **C5.1** CONCRETE FLUME SECTION
NOT TO SCALE

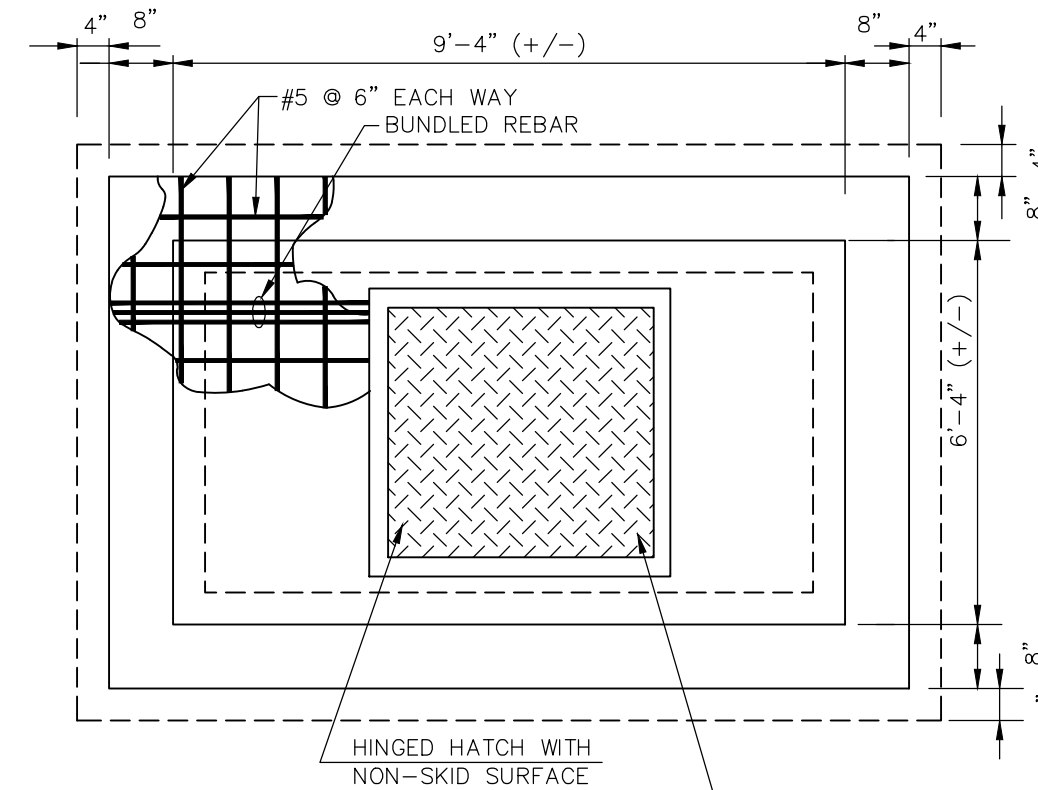


- NOTES:
1. CURB AND GUTTER TO BE CONSTRUCTED IN 10 FOOT LENGTHS.
2. 1/2 INCH EXPANSION JOINT SHALL BE PROVIDED AT INTERVALS NOT TO EXCEED 100 FEET, AT THE ENDS AND MID-POINT OF RETURNS, AND AT ANY POINT WHERE THE NEW CURB AND GUTTER ABUTS OTHER CONCRETE STRUCTURES.

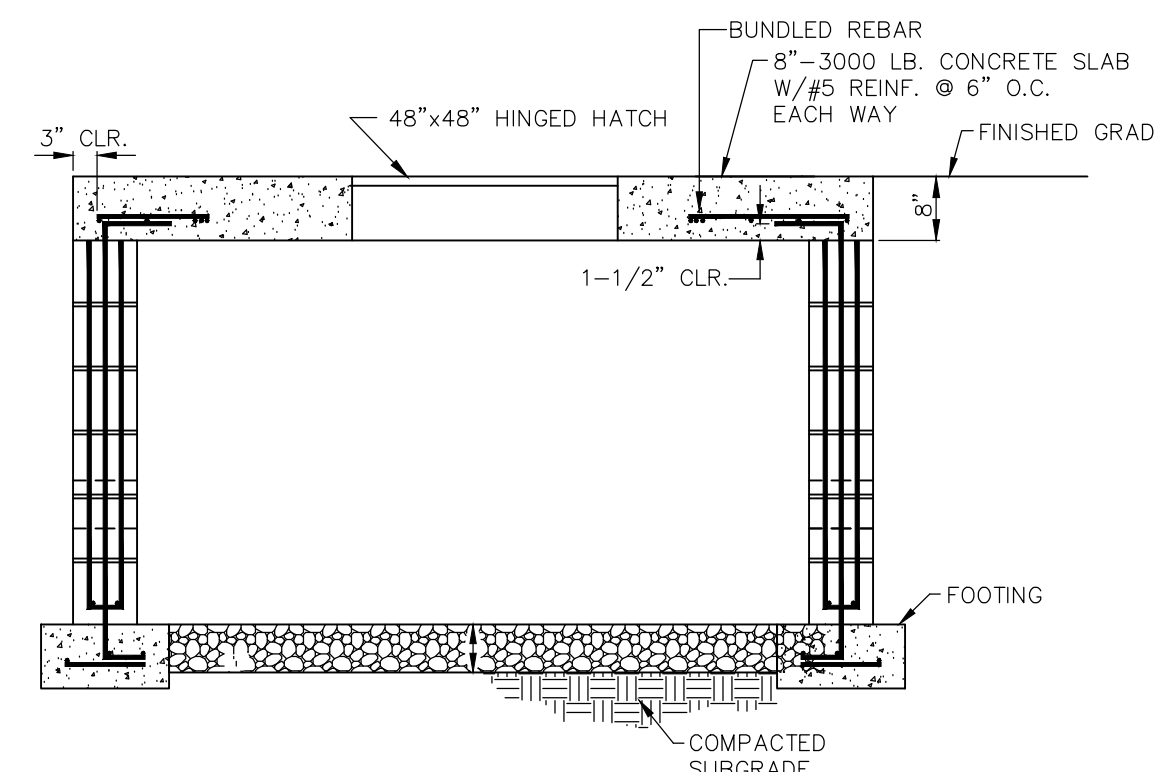
6 **C5.1** ROLLED CURB AND GUTTER
NOT TO SCALE



7 **C5.1** ROLL CURB TO BARRIER CURB AT CORNER
NOT TO SCALE
NOTES:
1. INSTALL FULL ROLL CURB SECTION AT CORNER.



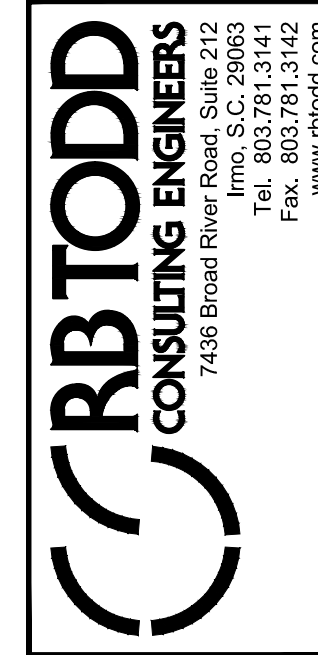
MODEL AHD (48"x48") AS MANUFACTURED BY USE FABRICATIONS, INC. (800-253-6873) OR APPROVED EQUAL.
TOP SLAB, HATCH REINFORCEMENT DETAIL



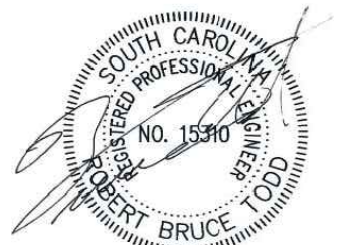
METER PIT IN TRAFFIC AREA

- NOTES:
1. THE BOX COVER SHALL BE FLUSH WITH THE SURROUNDING GROUND SURFACE.

13 **C5.1** WATER METER VAULT*
NOT TO SCALE
* REPLACE EXISTING METAL PLATE TOP WITH CONCRETE TOP AND ALUMINUM HATCH REFLECTED ON THIS DETAIL.



Date	Revisions



5/6/16

GREENE STREET PEDESTRIAN IMPROVEMENTS
DETAILS

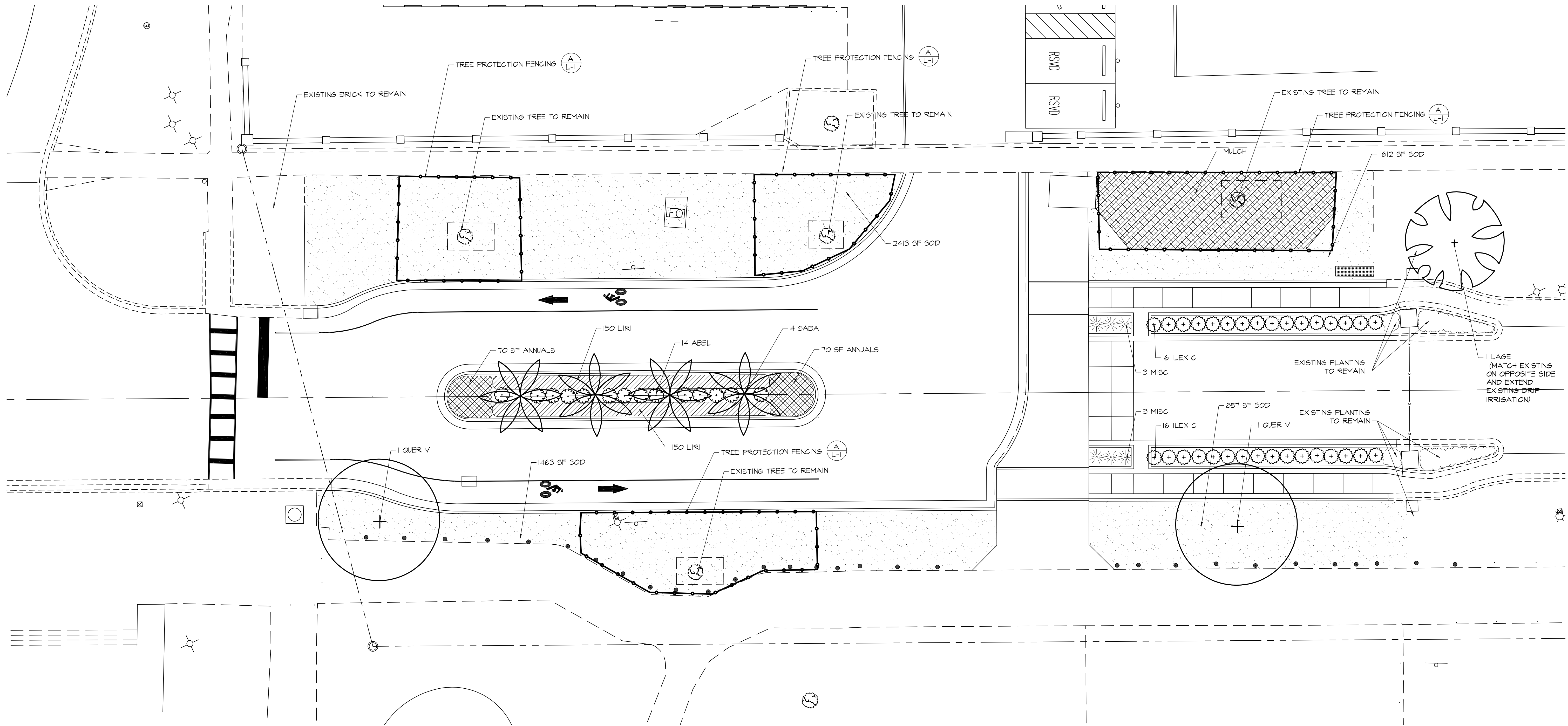
GRIMBALL & ASSOCIATES
COTTERILL

600 BELTLINE BOULEVARD COLUMBIA, SC 29205 (803)788-9525

LANDSCAPE ARCHITECTS & LAND PLANNERS

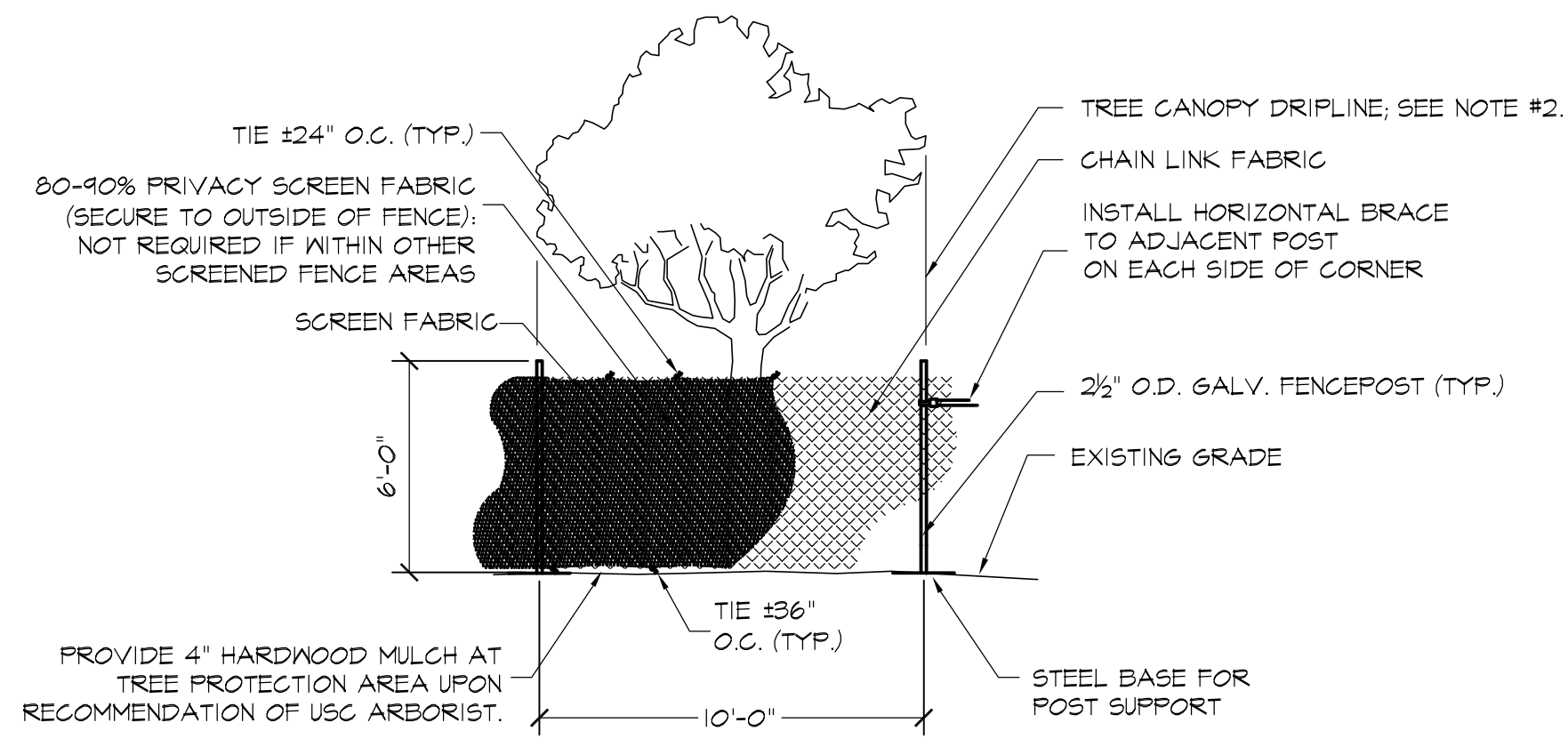
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Drawn by:	TLC
Checked by:	RBT
Date:	5/6/16
Drawing No.	C5.1
Sheet No.	OF



PLANT LIST

ABBR.	BOTANICAL NAME	COMMON NAME	MINIMUM				COMMENTS	QTY.
			GALIPER	SPREAD	HEIGHT	BALL DIA. NO. GANES		
QUER V	QUERCUS VIRGINIANA	LIVE OAK	4"	6'	14'-16'	32"	1	2
SABA	SABAL PALMETTO	PALMETTO			10'-12'		1	SPECIMEN 4
LAGE	LAGERSTROEMIA (MATCH EXISTING)	CRAPEMYRTLE (MATCH EXISTING)	1 1/2" EA.	4'-6"	10'-12'	28"	3 MIN	(MATCH EXISTING) 1
ABEL S	ABELIA X 'ROSE CREEK'	'ROSE CREEK' ABELIA		15"	12"	3 GAL.	3-5	PLANT 3' O.C. 14
ILEX C	ILEX CORNUTA 'CARISSA'	CARISSA HOLLY		15"-18"	12"	3 GAL.	3-5	PLANT 3' O.C. 32
MISC	MISCANTHUS SINENSIS	MAIDEN GRASS		18"	18"	3 GAL.	3-5	PLANT 3' O.C. 6
ANNUALS	ANNUAL FLOWERS	(VARIETY TO BE SELECTED)						140 SF
LIRI	LIRIOPE MUSCARI 'BIG BLUE'	'BIG BLUE' LIRIOPE				PINT		PLANT 12" O.C. 300
SOD	EREMOCHLOA OPHUROIDES	CENTPEDE GRASS						WELL ROOTED 5345 SF

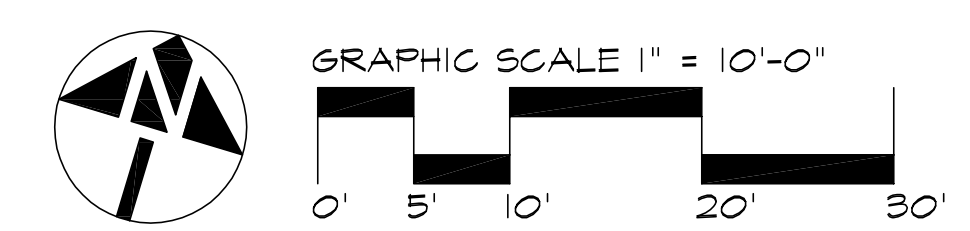


- NOTES:**
- PROVIDE PROTECTION FENCING FOR ALL TREES WITHIN AREA OF DISTURBANCE AND CONSTRUCTION ACCESS.
 - PROTECTION FENCING SHALL BE IN PLACE PRIOR TO BEGINNING CONSTRUCTION.
 - PROTECTION FENCING SHALL BE PLACED AT THE OUTSIDE OF THE CANOPY DRIPLINE, OR AT A DISTANCE OF ONE FOOT PER ONE INCH OF TREE DIAMETER, MEASURED AT BREAST HEIGHT, WHICHEVER IS LARGER, UNLESS OTHERWISE INDICATED ON LANDSCAPE PLAN OR APPROVED BY UNIVERSITY ARBORIST.
 - IN-GROUND POSTS ARE STANDARD. IF EXISTING ROOTS, UTILITIES OR PAVEMENT PRECLUDE USE OF IN-GROUND POSTS, FOOTED STANDS ARE ACCEPTABLE. SAND BAGS SHALL BE PLACED ON THE INSIDE OF FENCE.
 - DAMAGE TO ANY TREES DURING CONSTRUCTION SHALL BE ASSESSED BY UNIVERSITY ARBORIST AND THE UNIVERSITY ARBORIST SHALL STIPULATE WHAT ACTION WILL BE TAKEN FOR REMEDIATION OF DAMAGE. THE COST OF ANY AND ALL REMEDIATION WILL BE ASSUMED BY CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.
 - DISTURBANCE OF ROOT ZONE UNDER DRIPLINE OF TREE, INCLUDING COMPACTION OF SOIL, CUTTING OR FILLING OR STORAGE OF MATERIALS SHALL QUALIFY AS DAMAGE AND SUBJECT TO REMEDIATION.

GENERAL NOTES

- EXISTING ECOLOGY AND AESTHETICS WILL OFTEN CAUSE ADJUSTMENT OF THESE PLANS TO FIT THE SITE. STAKE-OUT BY THE CONTRACTOR AND ADJUSTMENT BY THE LANDSCAPE ARCHITECT IS ABSOLUTELY NECESSARY.
- LOCATIONS OF THOSE UTILITIES SHOWN ARE APPROXIMATE AND FOR INFORMATION PURPOSES ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXACT LOCATION OF ALL UTILITIES WHETHER SHOWN OR NOT SHOWN ON THESE PLANS, AND SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE RESULTING FROM THE FAILURE TO DO SO. CONTACT PALMETTO UTILITY PROTECTION SERVICE AT 1-888-721-7877 AT LEAST 12 HOURS PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR SHALL INFORM LANDSCAPE ARCHITECT IF PROPOSED DESIGN IS IN CONFLICT WITH EXISTING OR PROPOSED UTILITIES. CONTRACTOR SHALL COORDINATE WITH LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION TO ADJUST PROPOSED DESIGN OR UTILITIES AS NECESSARY TO RESOLVE CONFLICTS.
- BASE PLAN DATA DERIVED FROM SITE SURVEY. PROVIDED BY CHAO & ASSOCIATES DATED MARCH 2013.

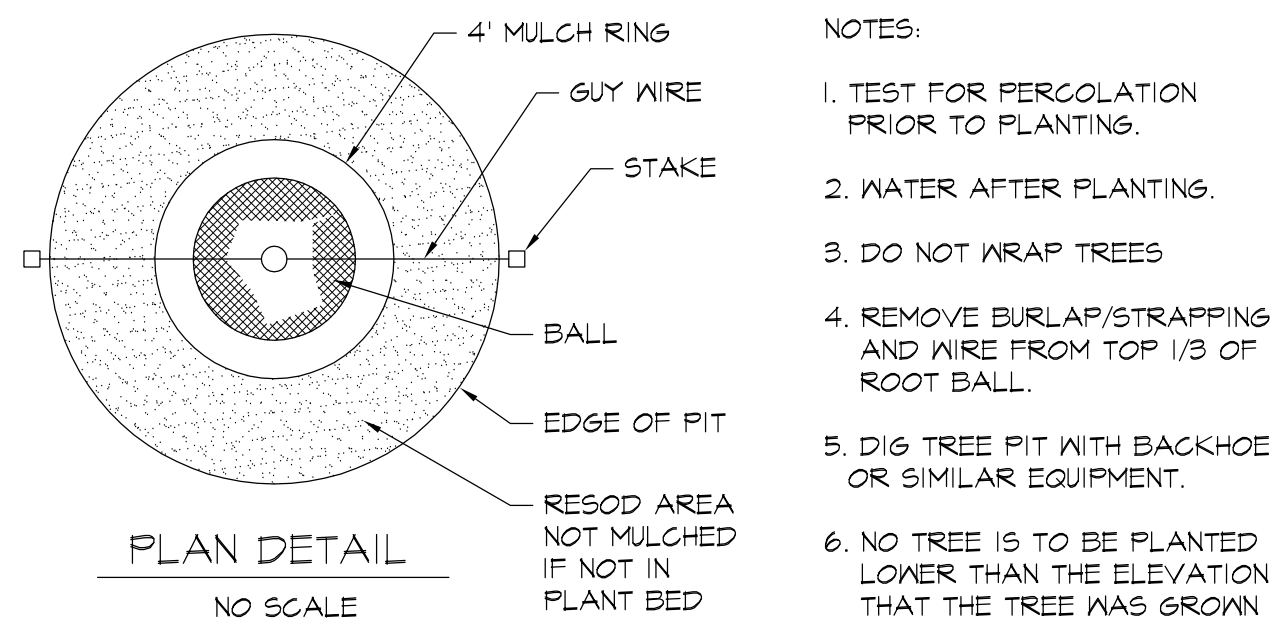
A L-1 TREE PROTECTION FENCING NOT TO SCALE



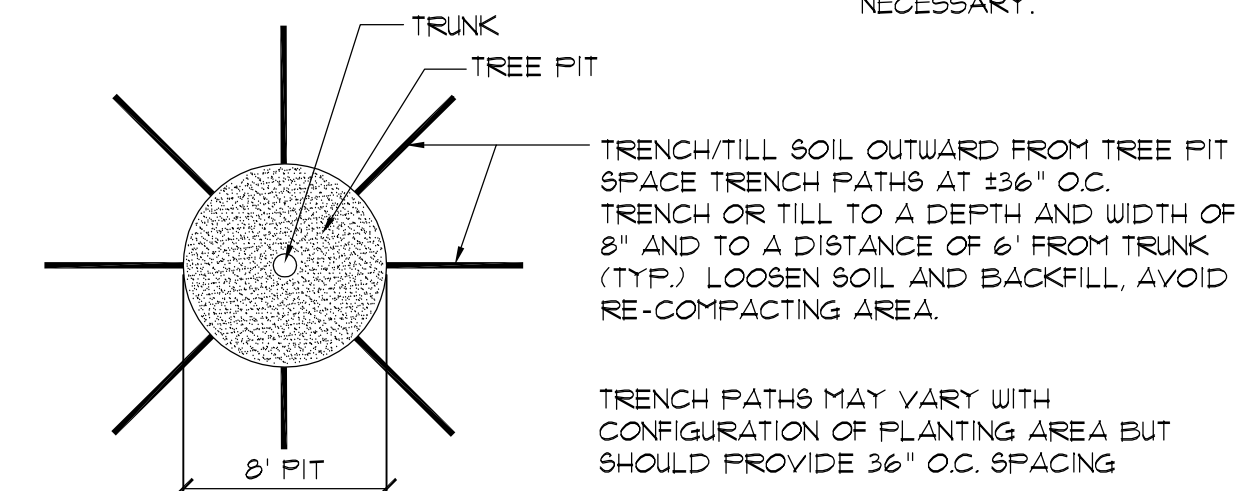
Date	Revisions

GRIMBALL & ASSOCIATES COTTERILL
 LANDSCAPE ARCHITECTS & LAND PLANNERS
 600 BELTLINE BOULEVARD COLUMBIA, SC 29205 (803)738-9525
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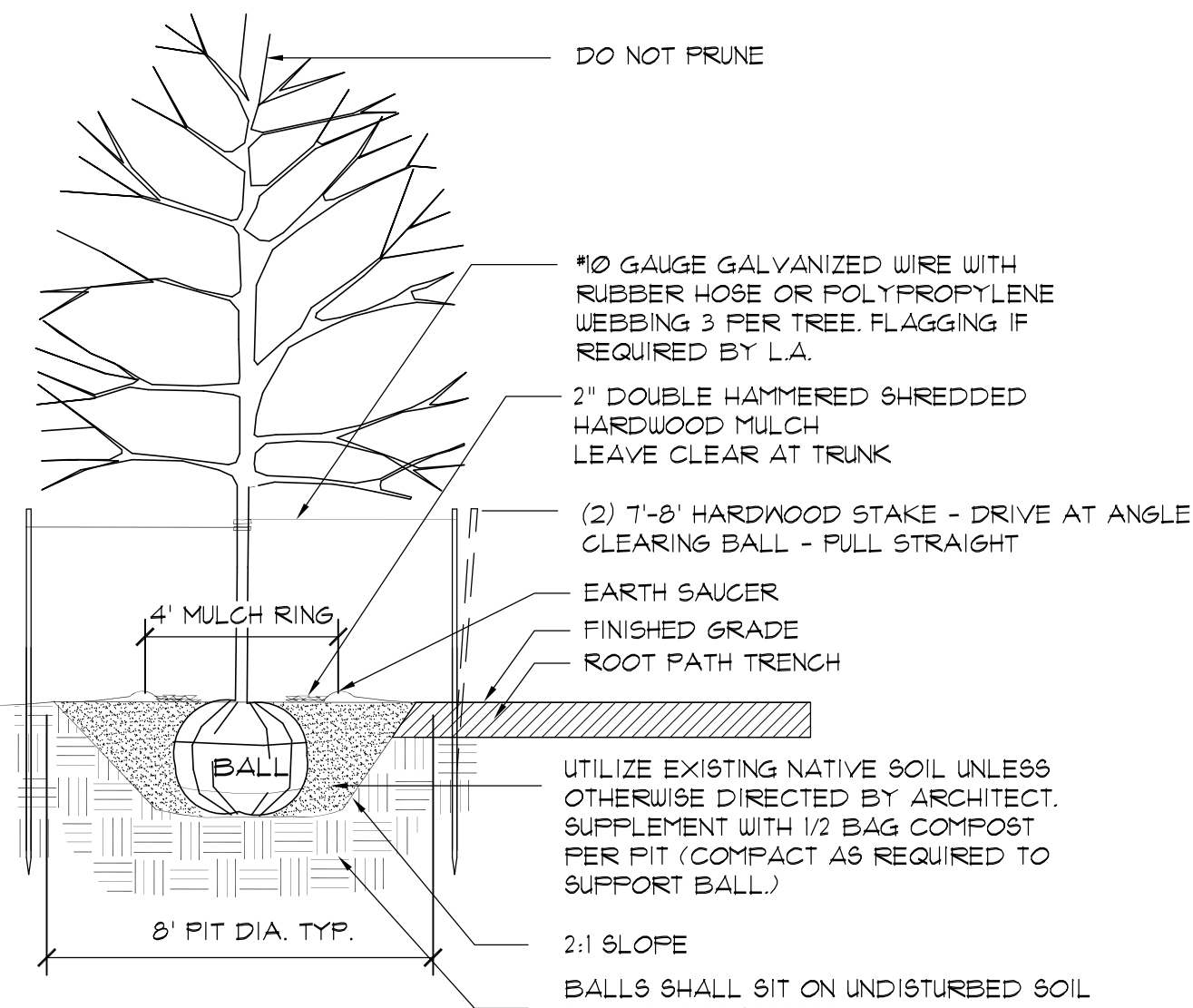
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 Date: 5/4/16
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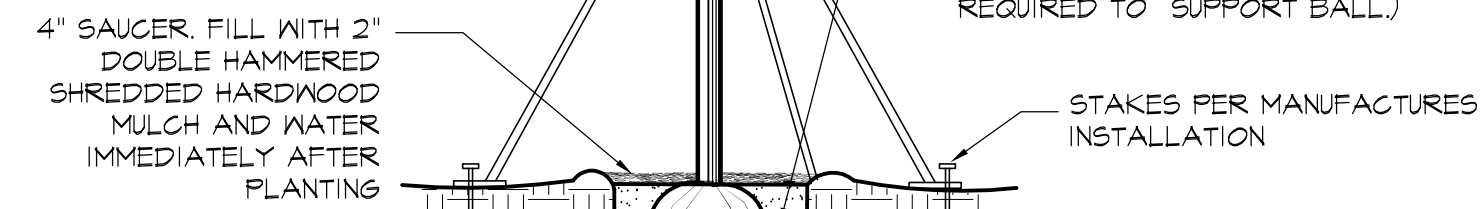
- NOTES:
1. TEST FOR PERCOLATION PRIOR TO PLANTING.
 2. WATER AFTER PLANTING.
 3. DO NOT WRAP TREES
 4. REMOVE BURLAP/STRAPPING AND WIRE FROM TOP 1/3 OF ROOT BALL.
 5. DIG TREE PIT WITH BACKHOE OR SIMILAR EQUIPMENT.
 6. NO TREE IS TO BE PLANTED LOWER THAN THE ELEVATION THAT THE TREE WAS GROWN AT THE NURSERY. REMOVE BUILT UP SOIL AS NECESSARY.



PLAN DETAIL: ROOT PATH TRENCHES
NO SCALE

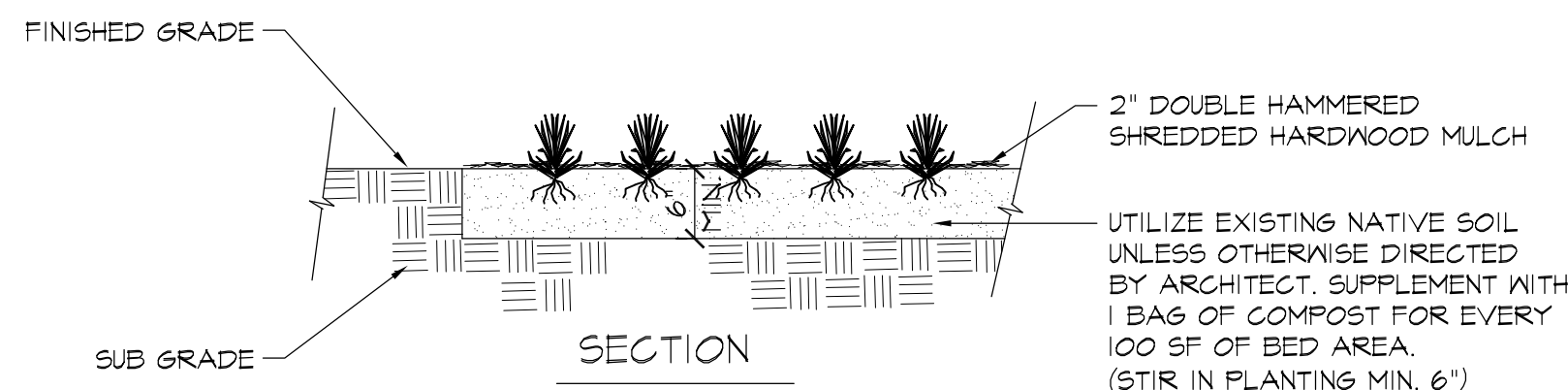
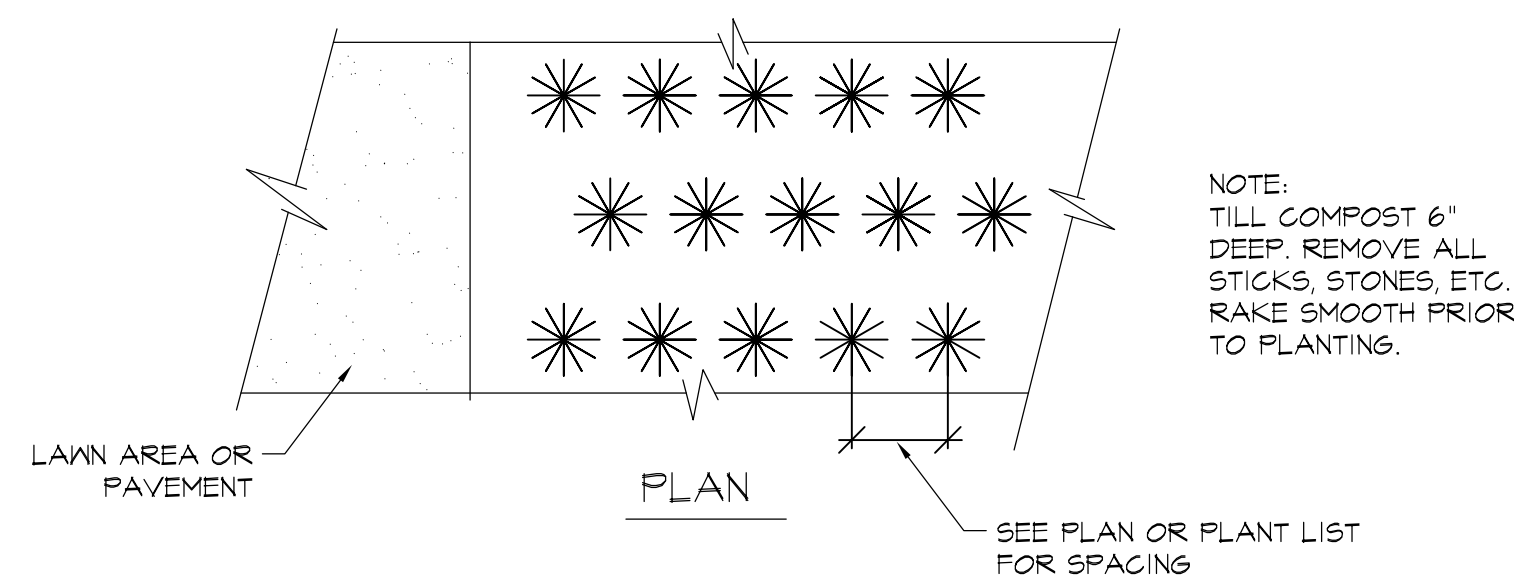


PALM TREE SUPPORTS TO BE MODEL BTB-2A BY BROOKS ADJUSTABLE TREE BRACE SYSTEM, WWW.BROOKSTREEBRACE.COM, 1-877-246-3390, OR APPROVED EQUAL. SEE MANUFACTURER'S SPECIFICATIONS AND DETAILS FOR INSTALLATION

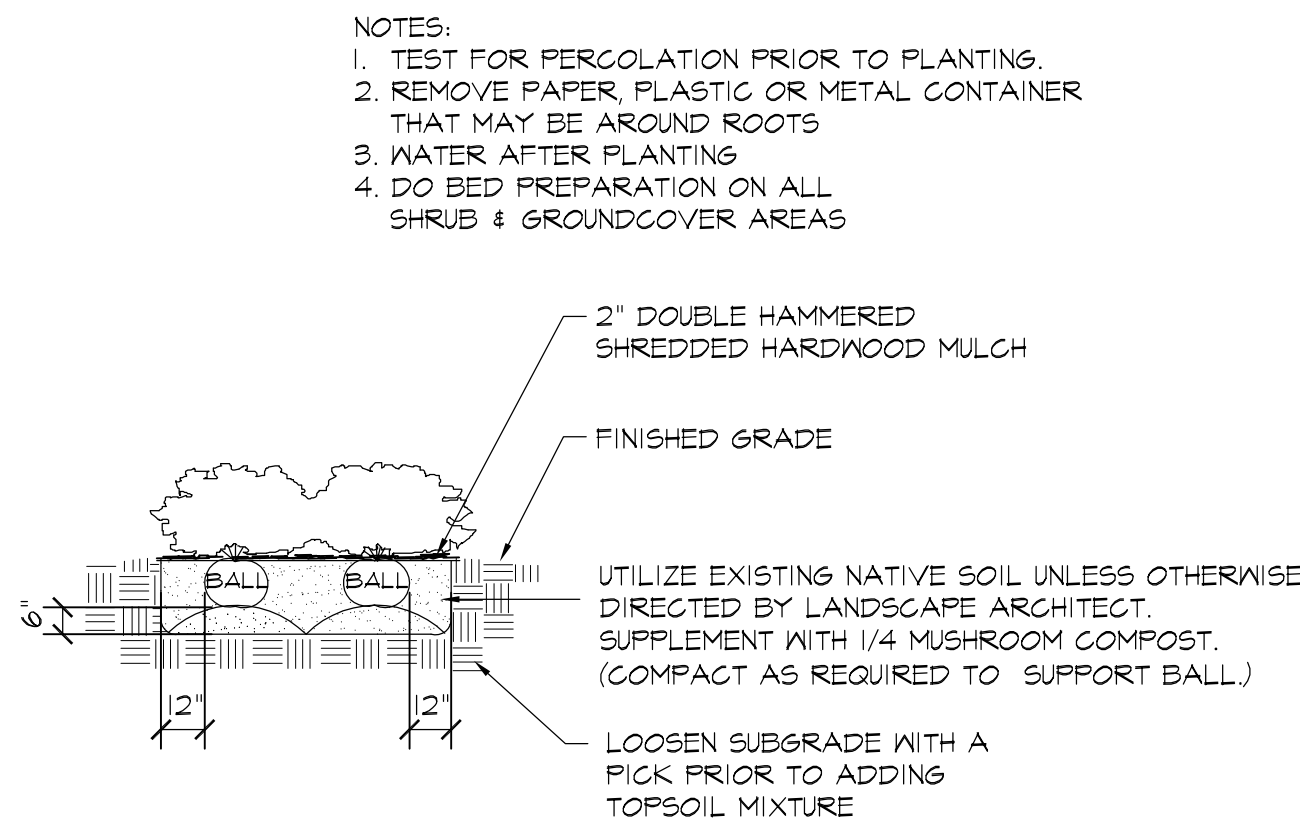


- NOTES
- PLANT SO THAT TOP OF ROOT BALL IS 1 1/2'-2' ABOVE FINISHED GRADE.
 - NAIL SUPPORT TO BRACE, DO NOT NAIL TO TRUNK.

A TREE PLANTING AND STAKING
L-2 SECTION NOT TO SCALE



C TYPICAL GROUNDCOVER PLANTING
L-2 SECTION NOT TO SCALE



E SHRUB PLANTING
L-2 SECTION NOT TO SCALE

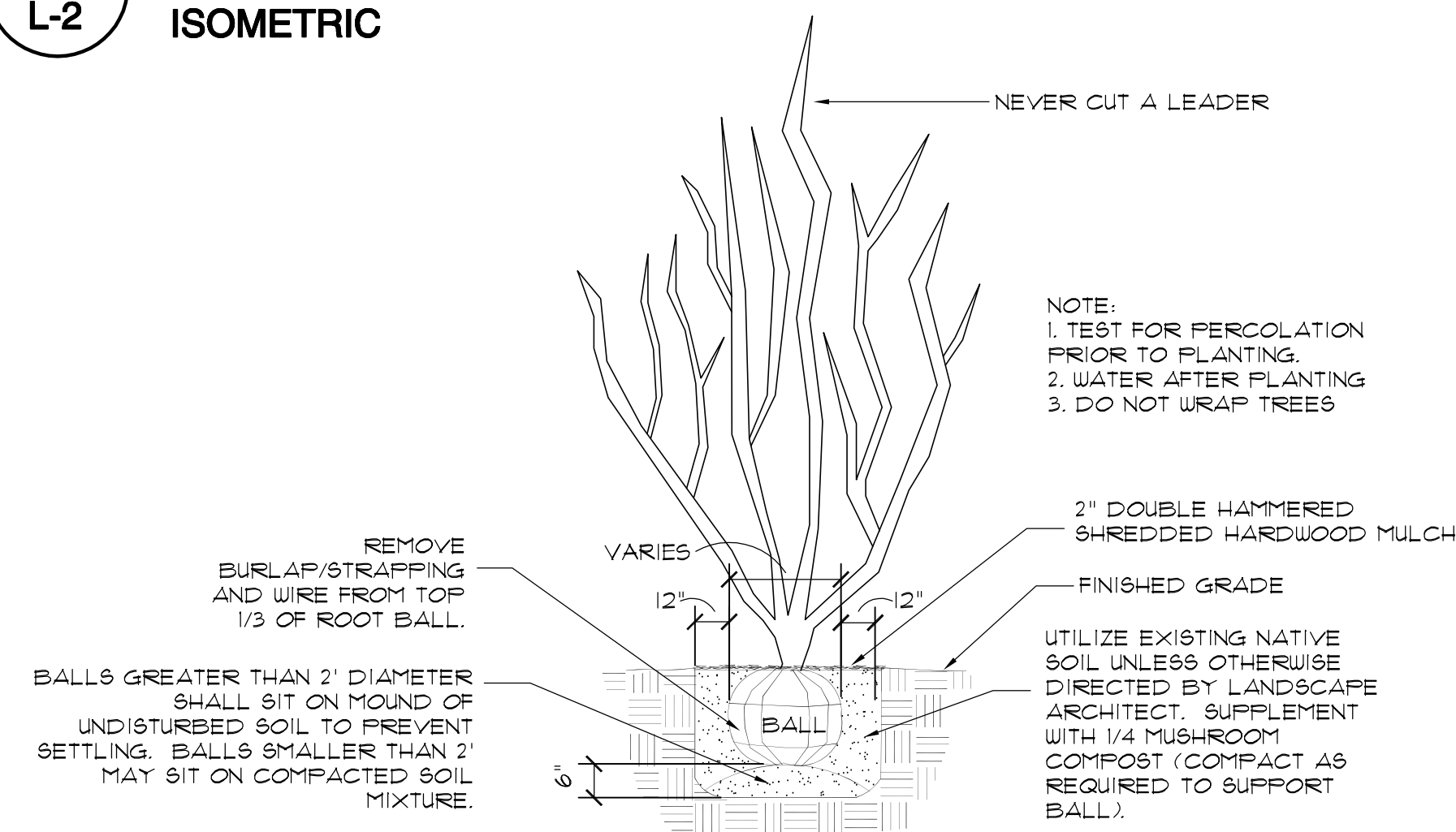
B PALMETTO PLANTING
L-2 SECTION NOT TO SCALE

INSTRUCTIONS FOR PERFORMING A PERCOLATION TEST

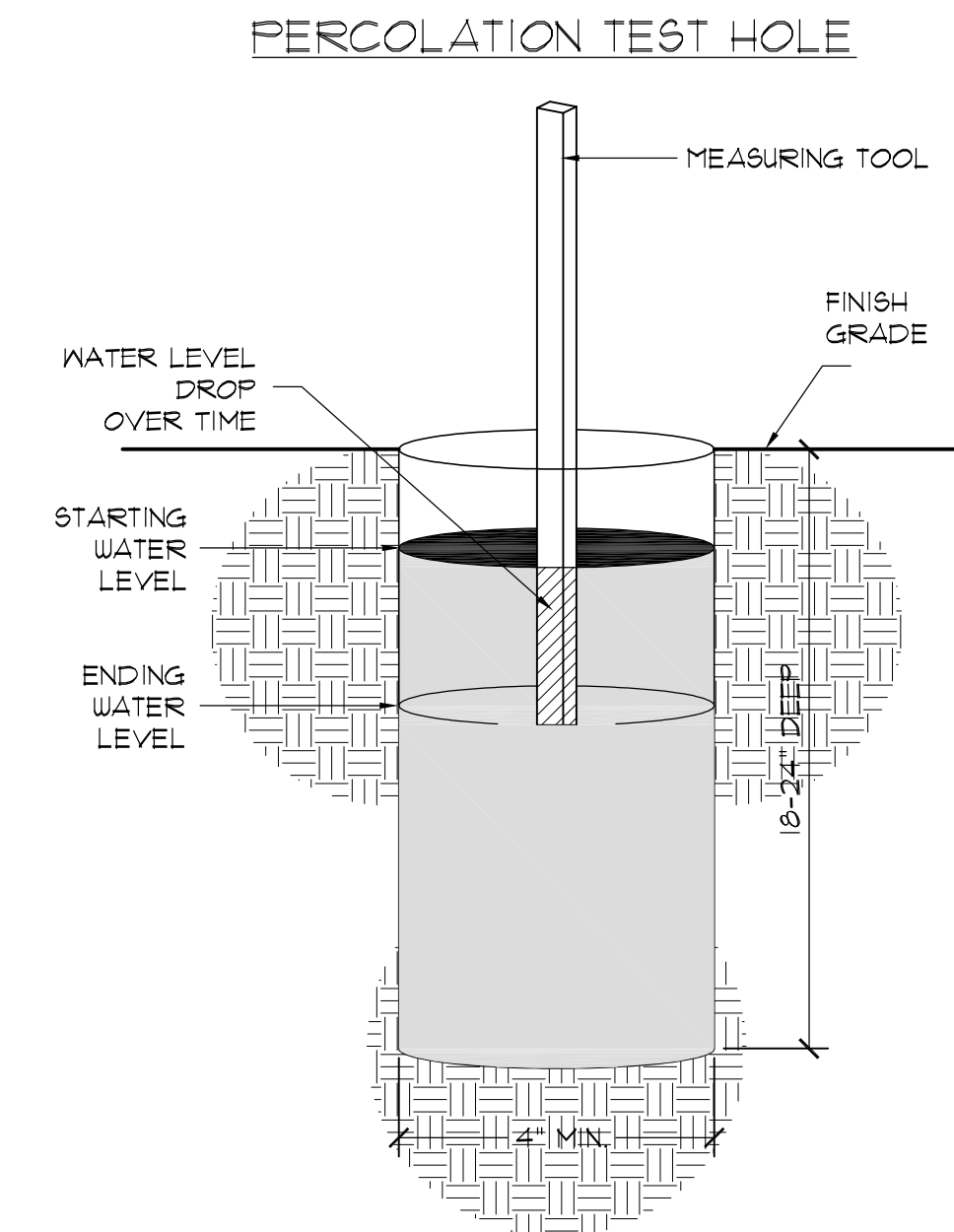
1. WITH A SHOVEL OR POSTHOLE DIGGER, DIG HOLE 18" TO 24" DEEP. HOLE DIAMETER SHOULD BE A MINIMUM OF 4 INCHES. THE DIAMETER OF THE HOLE SHOULD BE UNIFORM FROM TOP TO BOTTOM WITH THE BOTTOM BEING FLAT.
2. FILL HOLE WITH WATER TO THE TOP AND LET STAND FOR AT LEAST AN HOUR TO PRE-WET THE SOIL.
3. REFILL HOLE TO WITHIN A COUPLE INCHES OF THE TOP. DON'T OVERFLOW THE HOLE.
4. TO AID IN MEASUREMENT, PLACE A STICK ACROSS THE TOP OF THE HOLE AND USE A RULER OR MEASURING TAPE TO MARK PERIODIC DROPS IN WATER LEVEL.
5. ALLOW THE HOLE TO DRAIN FOR AT LEAST ONE HOUR. A LONGER PERIOD OF TIME (2 TO 3 HOURS) WILL GIVE A MORE ACCURATE READING OF AVERAGE PERCOLATION RATES.
6. DETERMINE AVERAGE DROP IN WATER LEVEL PER HOUR AND REFER TO THE TABLE BELOW TO INTERPRET RESULTS.

HOW TO INTERPRET RESULTS	
IF WATER LEVEL IN HOLE DROPS...	SITE IS...
LESS THAN ONE-HALF INCH PER HOUR	POORLY DRAINED AND SUITED TO NET-SITE SPECIES
ONE HALF-INCH TO ONE INCH PER HOUR	MODERATELY WELL DRAINED AND ACCEPTABLE FOR MANY SPECIES INCLUDING NET-SITE SPECIES
MORE THAN ONE INCH PER HOUR	WELL DRAINED AND SUITABLE FOR ALL SPECIES INCLUDING SENSITIVE SPECIES

D PERCOLATION TEST
L-2 ISOMETRIC NOT TO SCALE



F CRAPE MYRTLE PLANTING
L-2 SECTION NOT TO SCALE



NOT TO SCALE

PLANTING NOTES

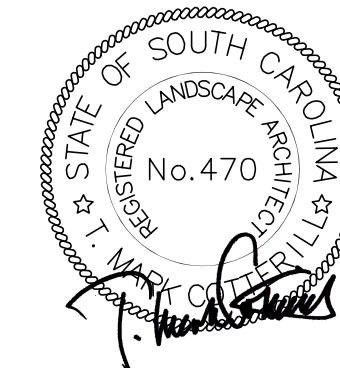
1. PLANTS LABELED NIC ARE NOT IN CONTRACT AND ARE NOT A PART OF THIS PHASE OF WORK.
2. REQUIREMENTS FOR THE MEASUREMENTS, BRANCHING, GRADING, QUALITY, BALLING AND BURLAPPING OF PLANTS IN THE PLANT LIST GENERALLY FOLLOWS OR EXCEEDS A CODE OF STANDARDS CURRENTLY RECOMMENDED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN THE AMERICAN STANDARD FOR NURSERY STOCKS. SEE THE PLANT LIST FOR MORE RESTRICTIVE REQUIREMENTS.
3. ALL PLANTS SHALL HAVE A WELL FORMED HEAD WITH MINIMUM CALIPER, HEIGHT AND SPREAD OF THE SIDE BRANCHES AS SHOWN ON THE PLANT LIST. TRUNKS SHALL BE UNDAMAGED AND SHAPE SHALL BE TYPICAL OF THE SPECIES.
4. MEASUREMENT OF CONIFER HEIGHT SHALL INCLUDE NOT MORE THAN FIFTY (50) PER CENT OF THIS YEAR'S VERTICAL GROWTH (TOP CANDLE).
5. THE LANDSCAPE CONTRACTOR IS HEREBY NOTIFIED OF THE EXISTENCE OF UNDERGROUND UTILITIES WITHIN THE LIMITS OF THE PROJECT AREA. THE CONTRACTOR SHOULD VERIFY THE EXACT LOCATION OF ALL UTILITY LINES PRIOR TO COMMENCEMENT OF DIGGING OPERATIONS.
6. THE CONTRACTOR WILL BE RESPONSIBLE FOR STAKING AND LAYOUT OF PLANTINGS ON THIS PROJECT. THE LANDSCAPE ARCHITECT OR OWNER SHALL BE ADVISED WHEN STAKES ARE READY FOR INSPECTION ON VARIOUS PLANTING AREAS. ALL LAYOUT WORK SHALL BE INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT AND OWNER PRIOR TO OPENING ANY PLANTING PITS.
7. IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO VERIFY THAT EACH EXCAVATED TREE OR SHRUB PIT WILL PERCOLATE (DRAIN) PRIOR TO ADDING TOPSOIL AND INSTALLING TREES OR SHRUBS. THE CONTRACTOR SHALL DO PERCOLATION TEST AS DETAILED ON DETAIL PL-102. THE OWNER OR LANDSCAPE ARCHITECT SHALL VERIFY ACCURACY AND EFFECT OF PERCOLATION TESTING. IF THE SOIL AT GIVEN AREA DOES NOT DRAIN PROPERLY, A PVC DRAIN OR GRAVEL SUMP SHALL BE INSTALLED OR THE PLANTINGS RELOCATED.
8. SHOULD THE LANDSCAPE CONTRACTOR ENCOUNTER UNSATISFACTORY SURFACE OR SUBSURFACE DRAINAGE CONDITIONS, SOIL DEPTH, LATENT SOILS, HARD PANS, STEAM OR OTHER UTILITY LINES OR OTHER CONDITIONS THAT WILL JEOPARDIZE THE HEALTH AND VIGOR OF THE PLANTS, HE MUST ADVISE THE LANDSCAPE ARCHITECT IN WRITING OF THE CONDITIONS PRIOR TO INSTALLING THE PLANTS. OTHERWISE, THE LANDSCAPE CONTRACTOR WARRANTS THAT THE PLANTING AREAS ARE SUITABLE FOR PROPER GROWTH AND DEVELOPMENT OF THE PLANTS TO BE INSTALLED.
9. PLANTING PITS FOR TREE AND SHRUBS SHALL BE PREPARED AS PER DETAILS.
10. DOUBLE HAMMERED SHREDDED HARDWOOD MULCH SHALL BE APPLIED TO ALL SHRUB BEDS BY THE CONTRACTOR. BEDS SHALL BE TREATED WITH PREEMERGENT HERBICIDE BY THE CONTRACTOR BEFORE MULCH IS APPLIED. SHREDDED HARDWOOD MULCH SHALL BE TWO INCHES DEEP. A SAMPLE OF SHREDDED HARDWOOD MULCH SHALL BE PRESENTED TO THE LANDSCAPE ARCHITECT FOR APPROVAL.
11. ALL TREES ARE TO BE STAKED IMMEDIATELY AFTER PLANTING AS DETAILED. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF STAKING HOSES, ETC. AT THE END OF THE ONE YEAR GUARANTEE PERIOD.
12. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING UP THE SITE AT THE COMPLETION OF THE PROJECT AND SHALL MAINTAIN THE SITE IN A REASONABLY NEAT AND CLEAN STATE THROUGHOUT THE INSTALLATION PROCESS. STREETS AND PAVED AREAS SHALL BE CLEANED REGULARLY TO REMOVE CONSTRUCTION MATERIALS AND OTHER DEBRIS RESULTING FROM WORK OF THE PROJECT.
13. PLANTS SHALL BE GUARANTEED FOR THE DURATION OF ONE (1) FULL YEAR AFTER THE FINAL ACCEPTANCE OF THE PLANTING BY THE OWNER AND SHALL BE ALIVE AND IN SATISFACTORY GROWTH AT THE END OF THE GUARANTEE PERIOD. ANY PLANT NOT IN A HEALTHY AND VIGOROUS STATE AT THE END OF THE GUARANTEE PERIOD SHALL BE REPLACED AT NO COST TO THE OWNER. PLANTS SEVERELY DAMAGED BY VANDALS ARE NOT SUBJECT TO REPLACEMENT BY THE CONTRACTOR DURING THE ONE YEAR GUARANTEE PERIOD.
14. REPLACEMENTS OF DEAD OR UNSATISFACTORY MATERIAL SHALL BE MADE AS SPECIFIED IN THE PLANT LIST. THE OWNER OR LANDSCAPE ARCHITECT SHALL INSPECT REPLACED PLANTS WHEN ALL REPLACEMENTS HAVE BEEN MADE. REPLACEMENTS ARE TO BE ALIVE AND IN A HEALTHY CONDITION WHEN THE REPLACEMENTS ARE COMPLETE, AND SHALL BE SUBJECT TO A ONE (1) YEAR GUARANTEE FROM THE DATE OF SATISFACTORY REPLACEMENT.
15. SHOULD THE CONTRACTOR NOT MAKE REPLACEMENTS IN A SATISFACTORY AND TIMELY FASHION IN ACCORD WITH THE PLANTING NOTES, THE OWNER, AFTER PROPER NOTIFICATION TO THE CONTRACTOR MAY UTILIZE THE FUNDS OF THE RETAINAGE TO HAVE THE REPLACEMENTS MADE IN ACCORD WITH THE SPECIFICATIONS BY ANOTHER CONTRACTOR.
16. NO EXCAVATION OR PLANTING PIT SHALL BE LEFT OPEN OR UNATTENDED OVERNIGHT.
17. PLANT MATERIAL QUANTITIES PROVIDED IN THE PLANT LIST ARE FOR REFERENCE ONLY AND THE CONTRACTOR IS RESPONSIBLE FOR THE ACTUAL PLANT MATERIAL COUNTS. DISCREPANCIES BETWEEN QUANTITIES SHOWN ON THE PLANTING PLAN AND THOSE IN THE PLANT LIST SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR CLARIFICATION. IF CLARIFICATION OF DISCREPANCIES FROM THE LANDSCAPE ARCHITECT IS NOT POSSIBLE, THEN QUANTITIES SHOWN ON THE PLANTING PLAN SHALL TAKE PRECEDENCE.

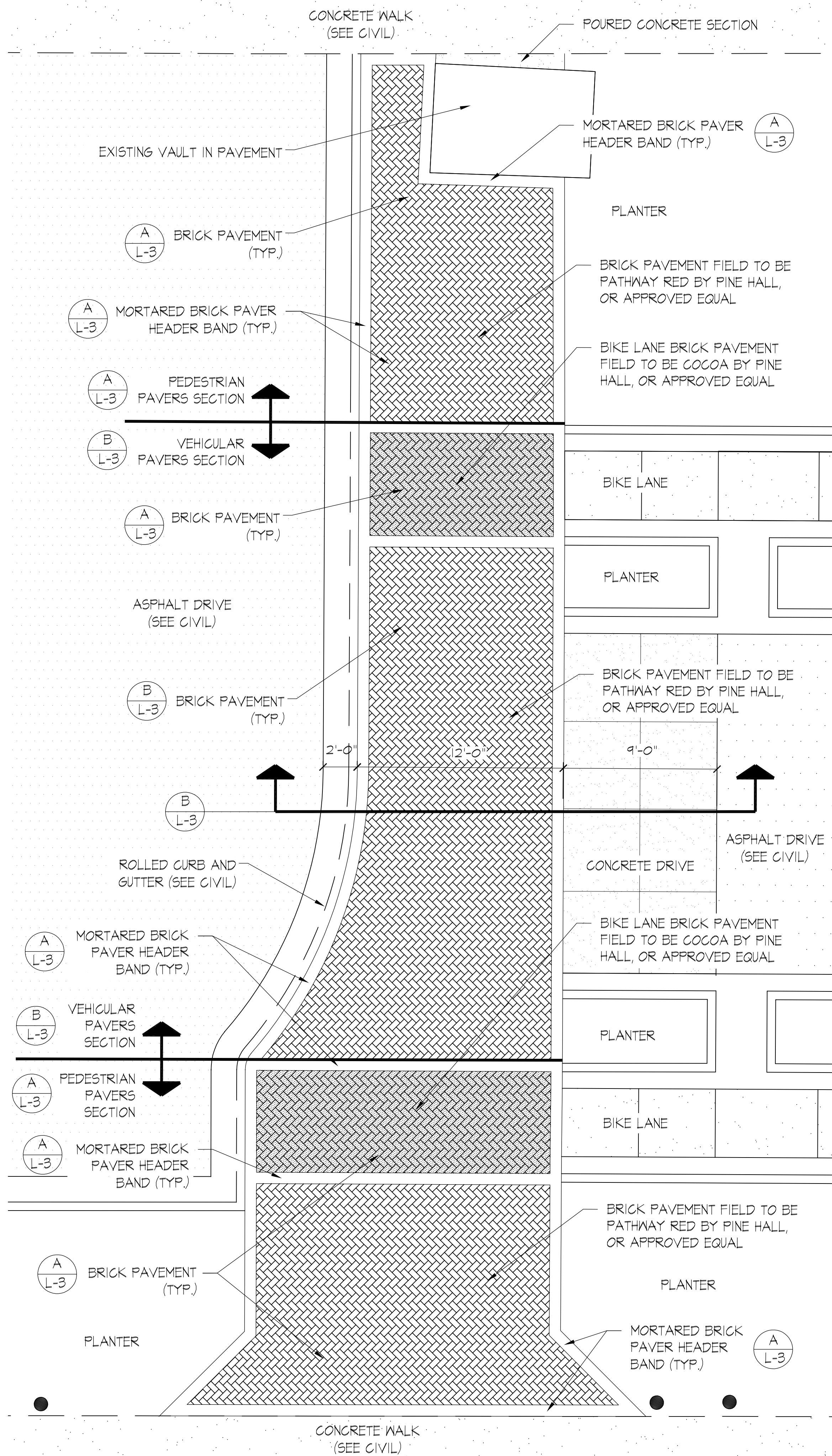
GREENE STREET PEDESTRIAN CORRIDOR
PLANTING DETAILS

GRIMBALL & ASSOCIATES
COTTERILL

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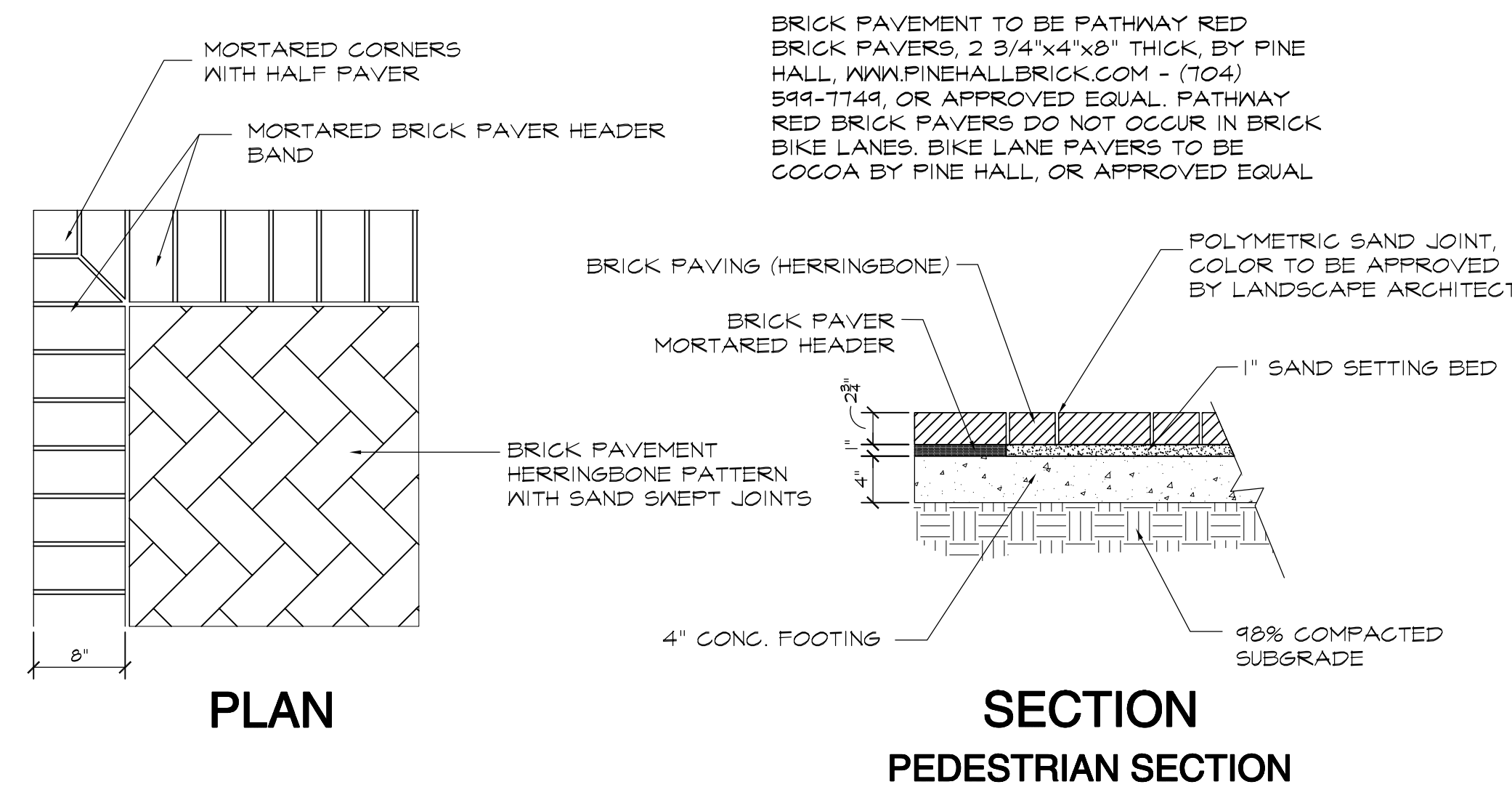
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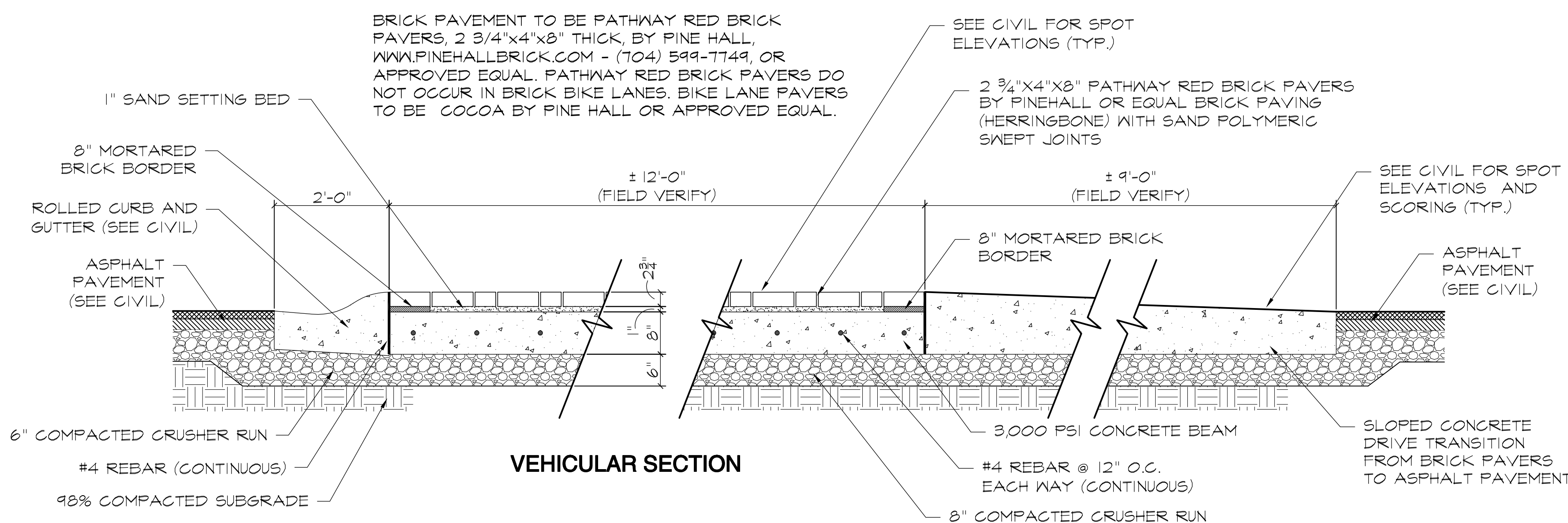
BRICK LAYOUT PLAN
PLAN

SCALE 1/4"=1'-0"



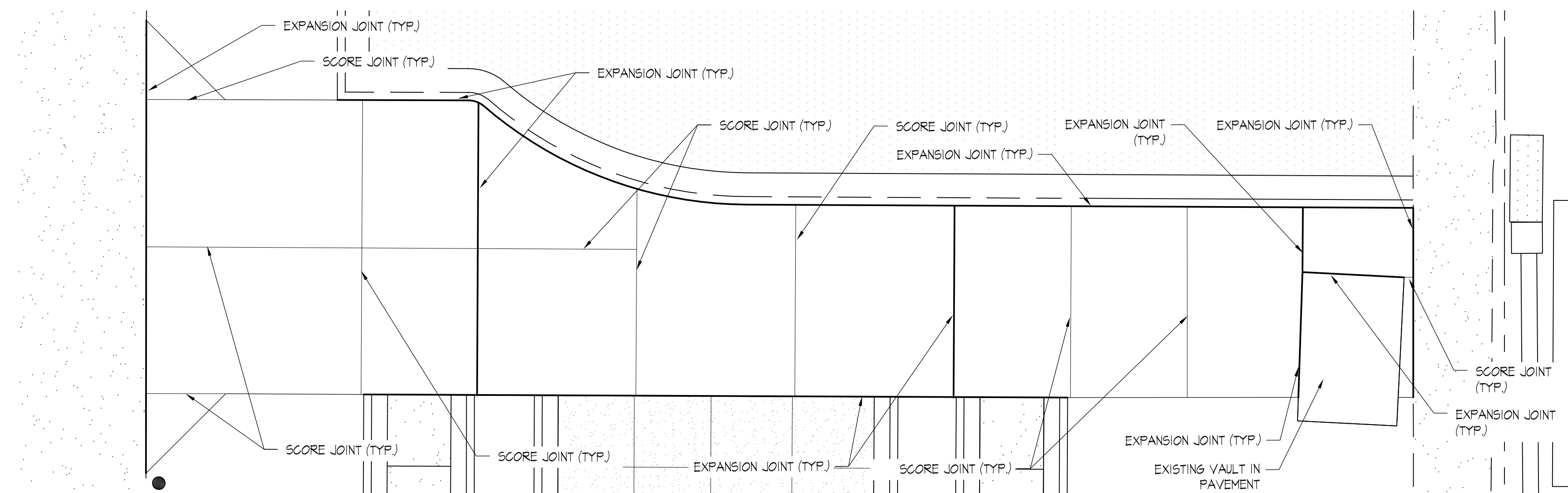
BRICK PAVEMENT
PLAN / SECTION

SCALE 1"=1'-0"



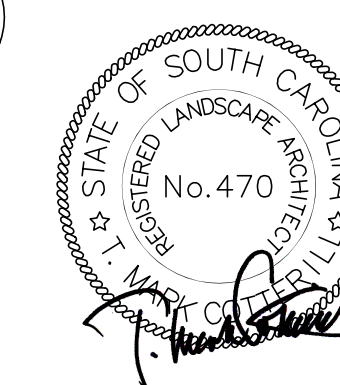
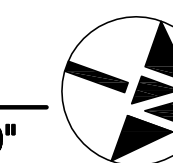
DRIVEWAY SECTION
SECTION

SCALE 3/4"=1'-0"



CONCRETE FOOTING UNDER BRICK PAVEMENT SCORING
PLAN

SCALE 3/16"=1'-0"



GENERAL NOTES

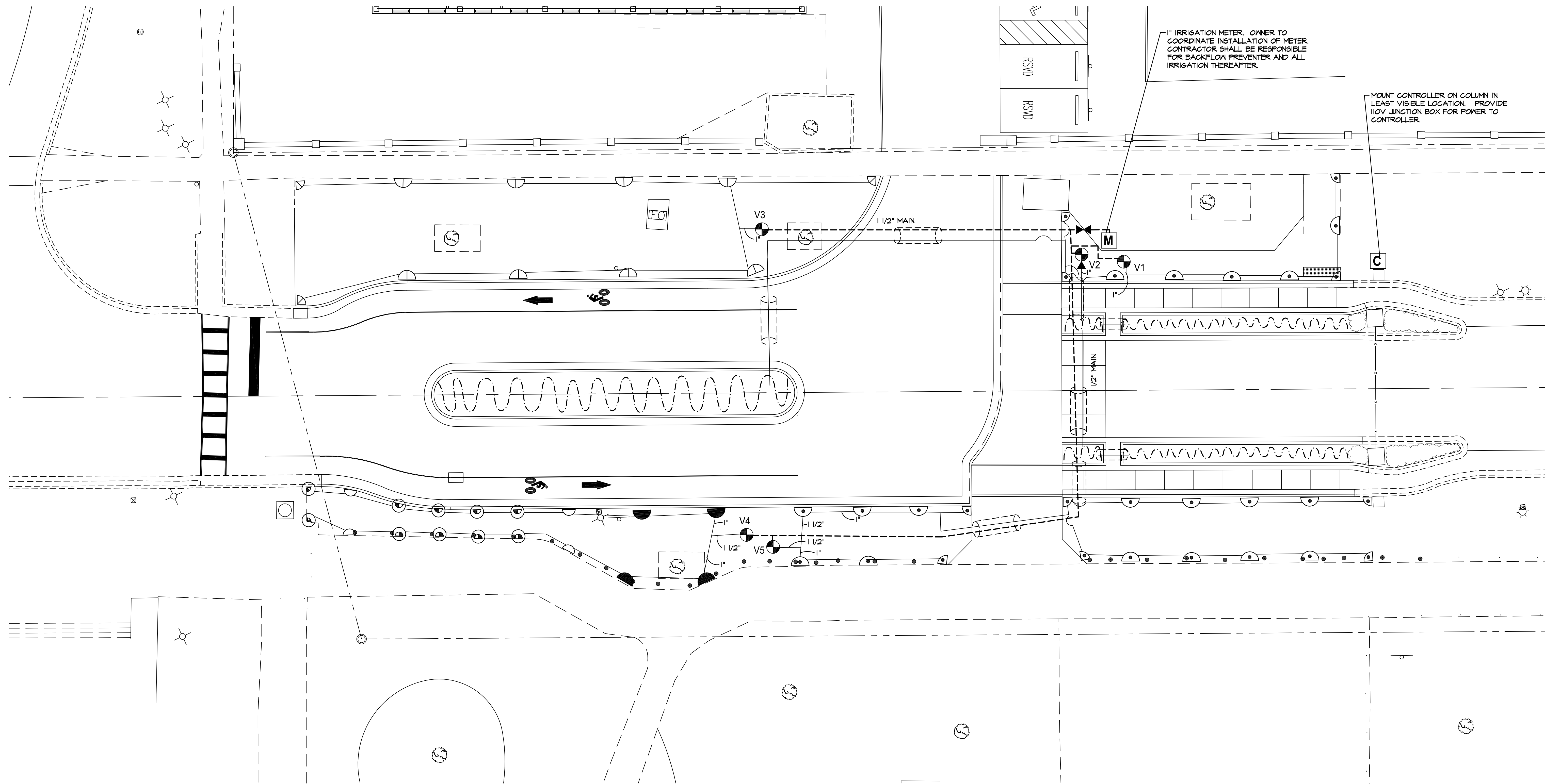
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- BASE PLAN DATA DERIVED FROM SITE SURVEY PROVIDED BY CHAO & ASSOCIATES DATED MARCH 2013.

Revisions	Date

GRIMBALL & ASSOCIATES
 COTTERILL
 LANDSCAPE ARCHITECTS & LAND PLANNERS
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\\PALMETTO\GRIMCOTT\ACTIVE PROJECTS ON MAPLE\T-Z PROJECTS\USC GREENE ST. PEDESTRIAN\DETAILS.DWG - 5/13/2016



IRRIGATION LEGEND

- M** 1" IRRIGATION METER
- C** RAINBIRD ESP-LXD CONTROLLER WITH RAIN SENSOR
- 1" DOUBLE CHECK VALVE BACKFLOW PREVENTER
- RAINBIRD P6A-100 SERIES ELECTRIC VALVE WITH DECODER FOR TWO-WIRE SYSTEM
- XGZ-100-B-COM
- MPROTATOR SERIES POP-UP ROTOR HEAD
- MP2000
- RAINBIRD SERIES POP-UP SPRAY HEAD**
 - 8Q 12Q
 - 8H 12H
 - 10H 15H
- 1/2" MAINLINE
- CLASS 160 OR 200 PVC PIPING SIZE AS NOTED
- RAINBIRD DRIP TUBING WITH RAIN-BUG EMITTERS
- 4" SCH. 40 PVC SLEEVING

VALVE SCHEDULE

VALVE	SIZE	TYPE	GPM
V1	1"	1804	9.1
V2	1"	DRIP	10±
V3	1"	MPROTATOR	8.09
V4	1"	1804	17.66
V5	1"	1804	22.15

IRRIGATION NOTES

- ALL IRRIGATION TO BE AS SPECIFIED OR APPROVED EQUAL.
- SYSTEM DESIGNED TO RUN AT 23 GPM WITH 65 PSI.
- CONTRACTOR TO COORDINATE WITH OWNER CONCERNING IRRIGATION METER PRIOR TO COMMENCEMENT OF WORK SO AS NOT TO DELAY COMPLETION OF IRRIGATION.
- CONTRACTOR SHALL PERFORM PRESSURE AND FLOW TESTS AT PROPOSED POINT OF CONNECTION PRIOR TO INSTALLATION TO VERIFY THAT ADEQUATE DESIGN CRITERIA IS PRESENT.
- ADJUSTMENT OF SPRINKLER HEADS AND DRIP LINES WILL BE NECESSARY IN THE FIELD.
- DRIP TUBE SYMBOLS AND IRRIGATION PIPING LAYOUT PROVIDED FOR GENERAL LOCATIONS IN THE FIELD ONLY, SYMBOLS DO NOT NECESSARILY PORTRAY AN ACCURATE QUANTITY. THE DESIGN INTENT IS TO PROVIDE 100% HEAD TO HEAD COVERAGE. IF THIS CANNOT BE ACHIEVED, NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY.
- UTILIZE EMITTER DISTRIBUTION TUBING AS DETAILED.
- INSTALL AUTO FLUSH VALVES ON DRIP TUBE AT ENDS AS NEEDED TO DRAIN DRIP TUBE AFTER EACH USE.
- ALL DRIP TUBE TO BE INSTALLED UNDER MULCH.
- WHERE IRRIGATION PIPING CROSSES SIDEWALKS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING A SLEEVE 2 SIZES LARGER THAN THE CROSSING PIPE.
- IRRIGATION CONTRACTOR TO ADJUST SPRAY PATTERNS TO SURROUNDING PLANT BEDS. OVERSPRAY ONTO BUILDINGS AND SIDE WALKS SHALL BE AVOIDED AS MUCH AS POSSIBLE.

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- BASE PLAN DATA DERIVED FROM SITE SURVEY. PROVIDED BY RB TODD DATED MARCH 2013.

1" IRRIGATION METER. OWNER TO COORDINATE INSTALLATION OF METER. CONTRACTOR SHALL BE RESPONSIBLE FOR BACKFLOW PREVENTER AND ALL IRRIGATION THEREAFTER.

MOUNT CONTROLLER ON COLUMN IN LEAST VISIBLE LOCATION. PROVIDE 110V JUNCTION BOX FOR POWER TO CONTROLLER.

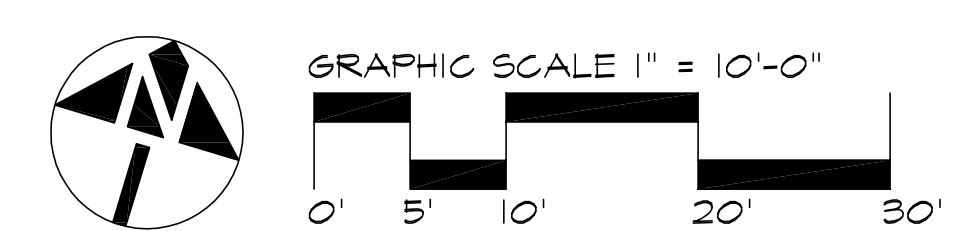
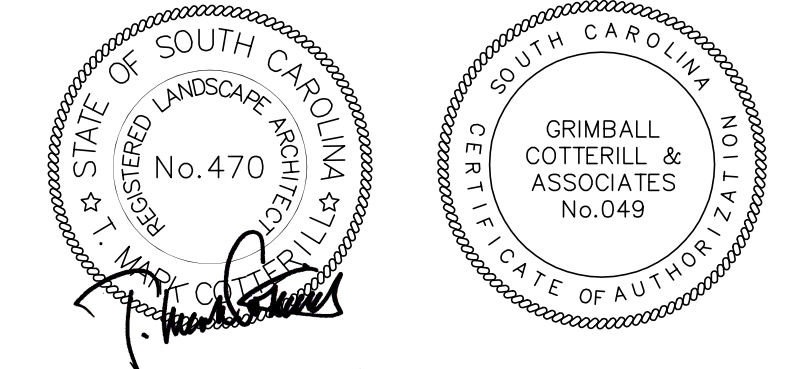
Date	Revisions

GRIMBALL & ASSOCIATES COTTERILL
GREENE STREET PEDESTRIAN CORRIDOR
IRRIGATION PLAN

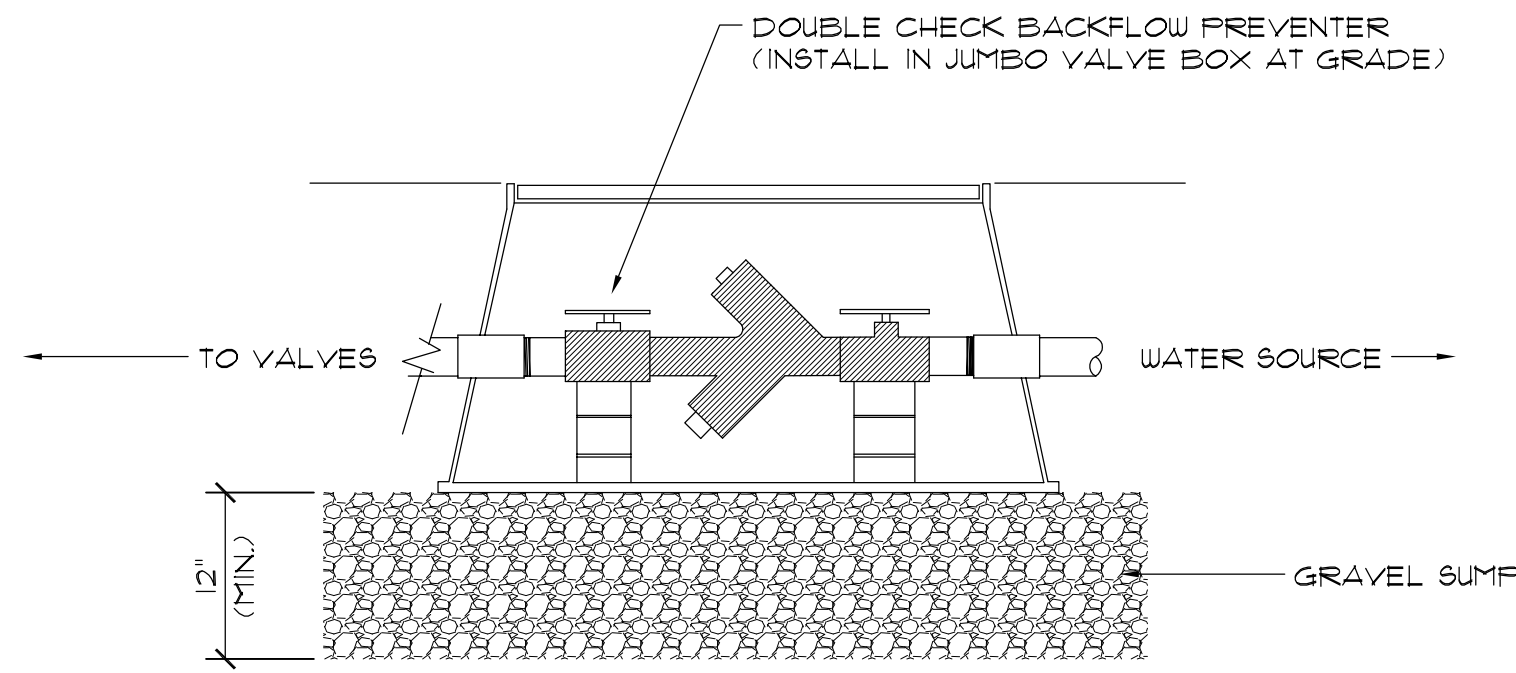
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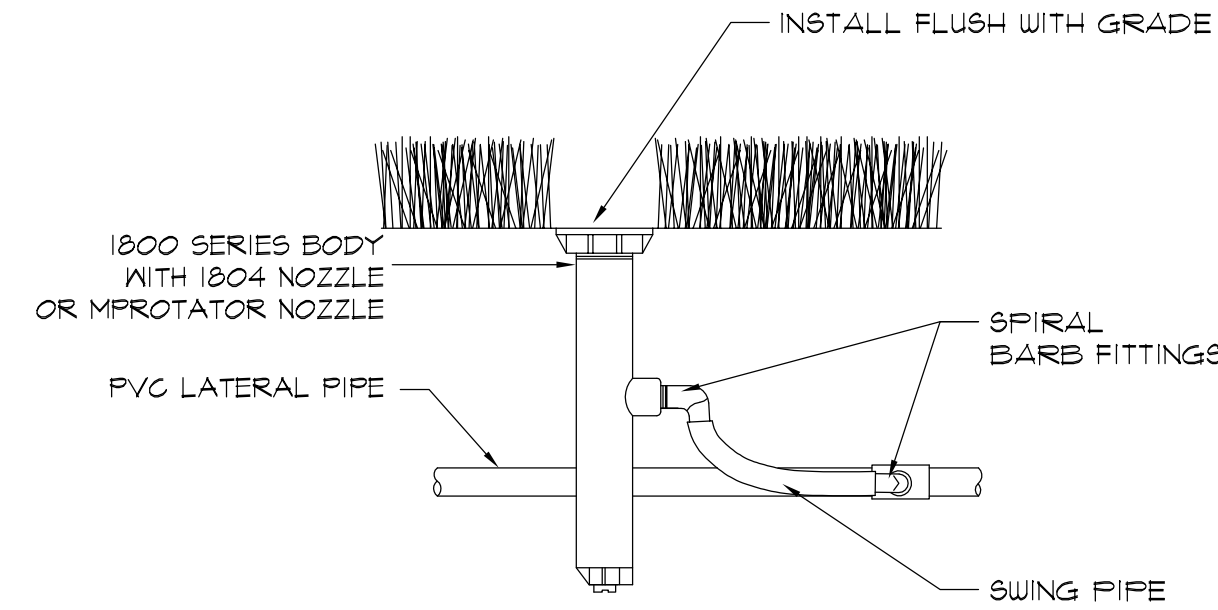
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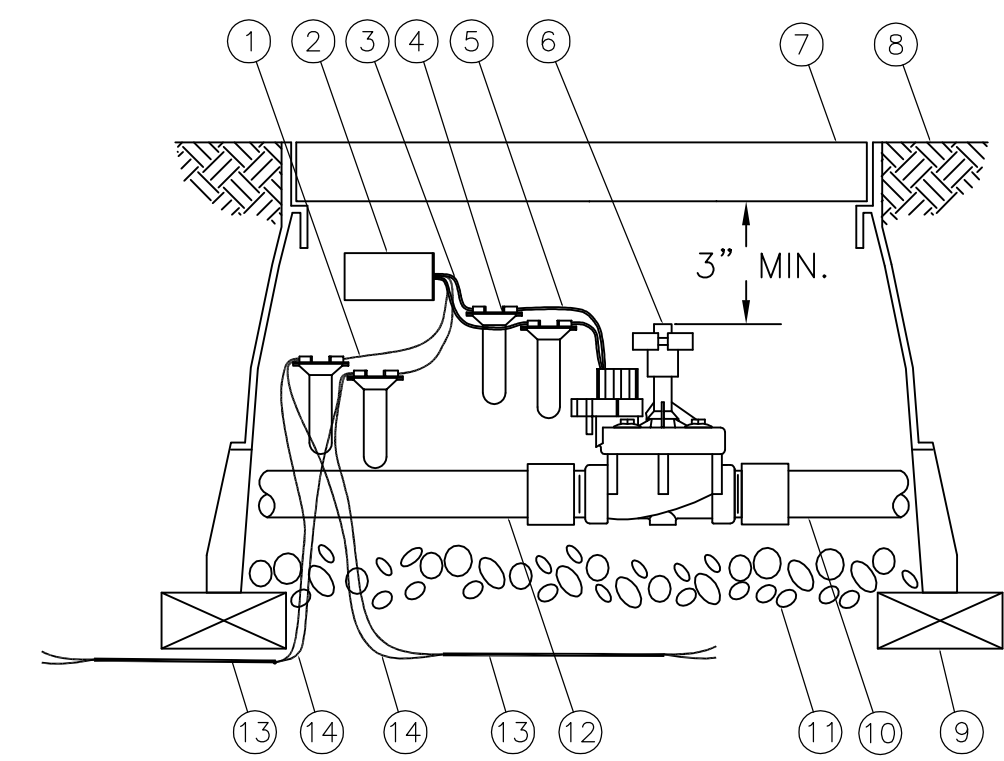
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A BACKFLOW PREVENTER
I-2 SECTION NOT TO SCALE

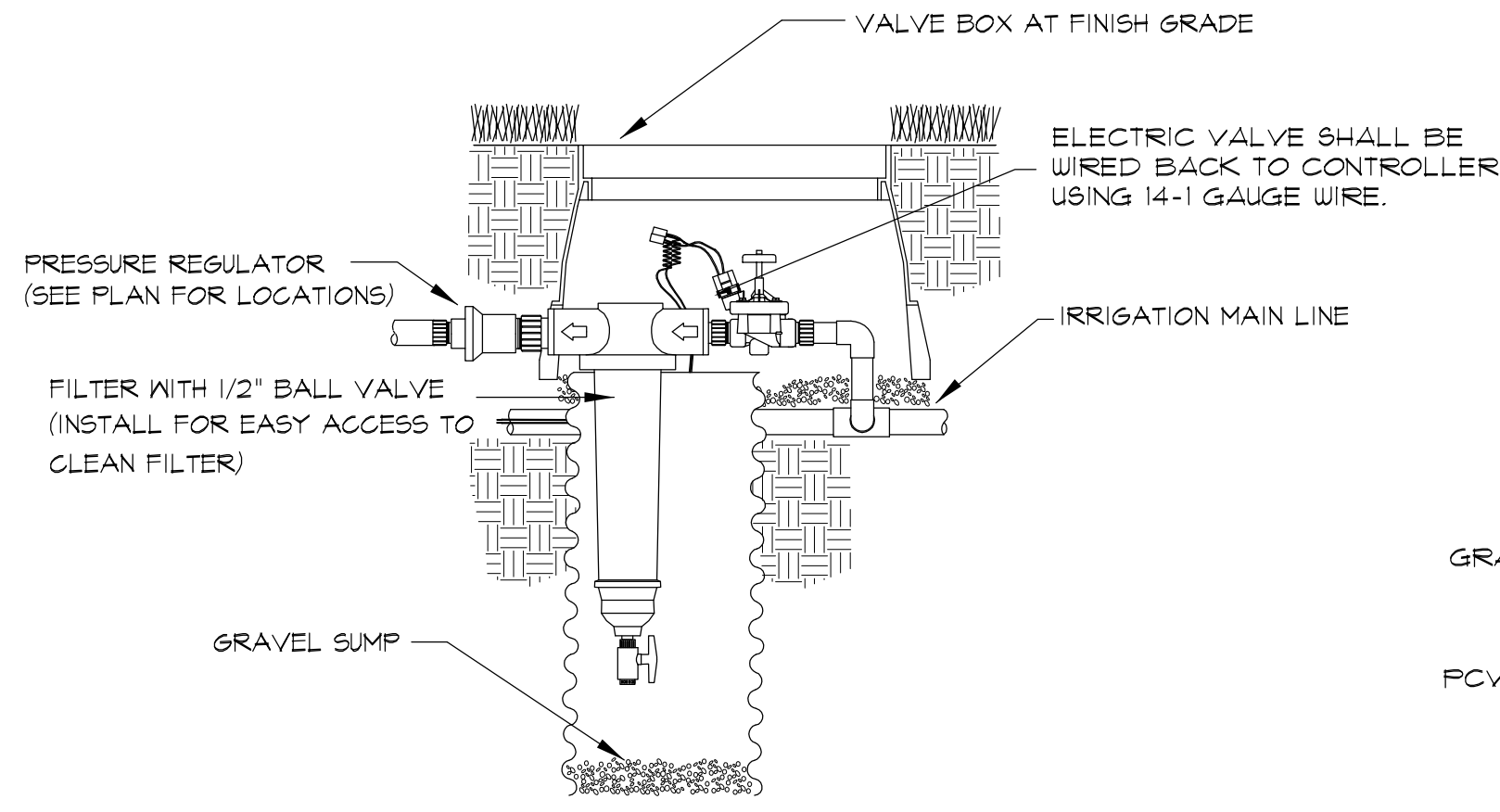


D POP-UP SPRAY SPRINKLER
I-2 SECTION NOT TO SCALE

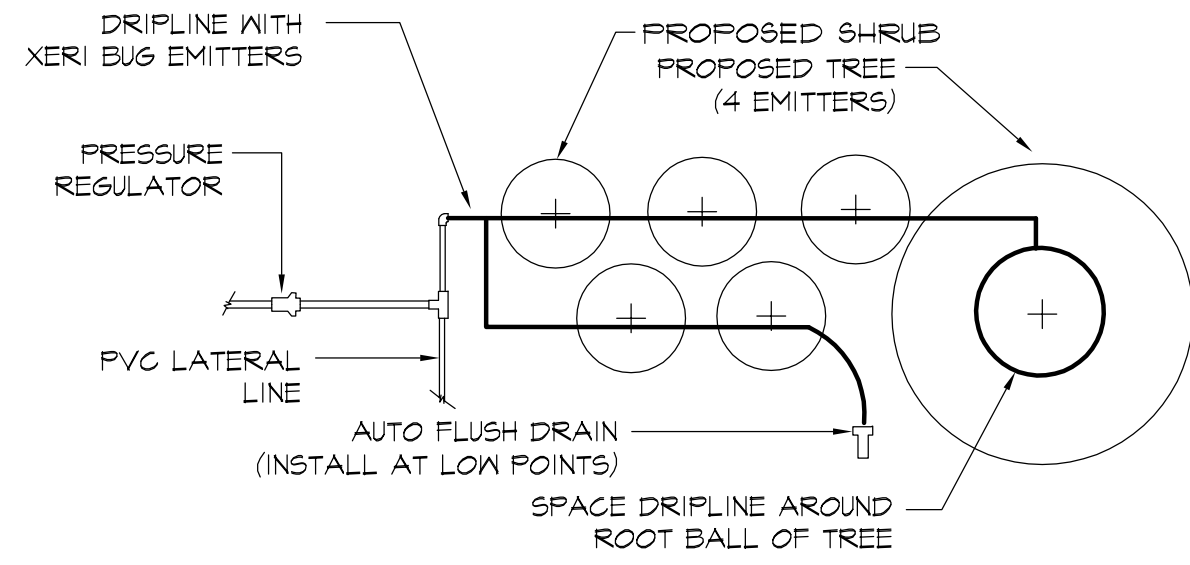


NOTES:
1. MAXIMUM LENGTH OF SECONDARY WIRE PATH (14 AWG) FROM FIELD DECODER TO SOLENOID IS 450 FEET.
2. PLACE 3 FEET OF EXTRA WIRE IN EVERY VALVE BOX FOR EASIER SERVICING.

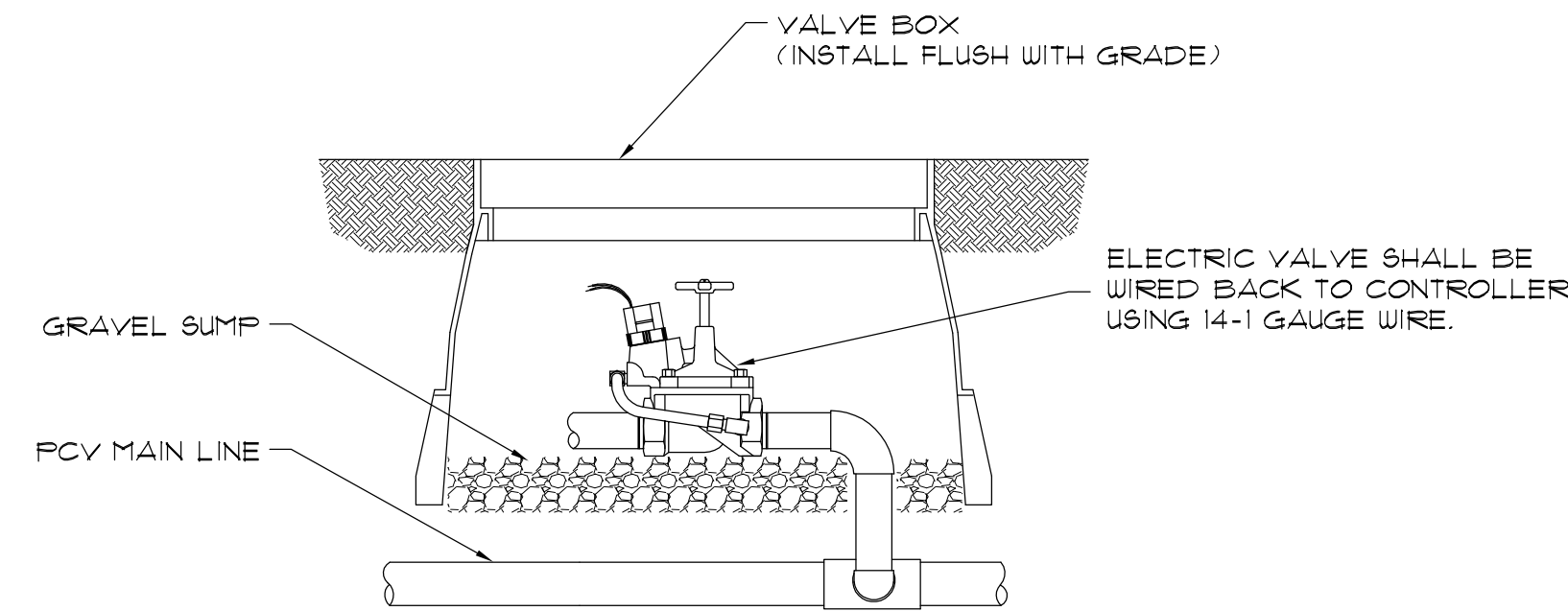
G DECODER CONNECTION TO VALVE
I-2 SECTION NOT TO SCALE



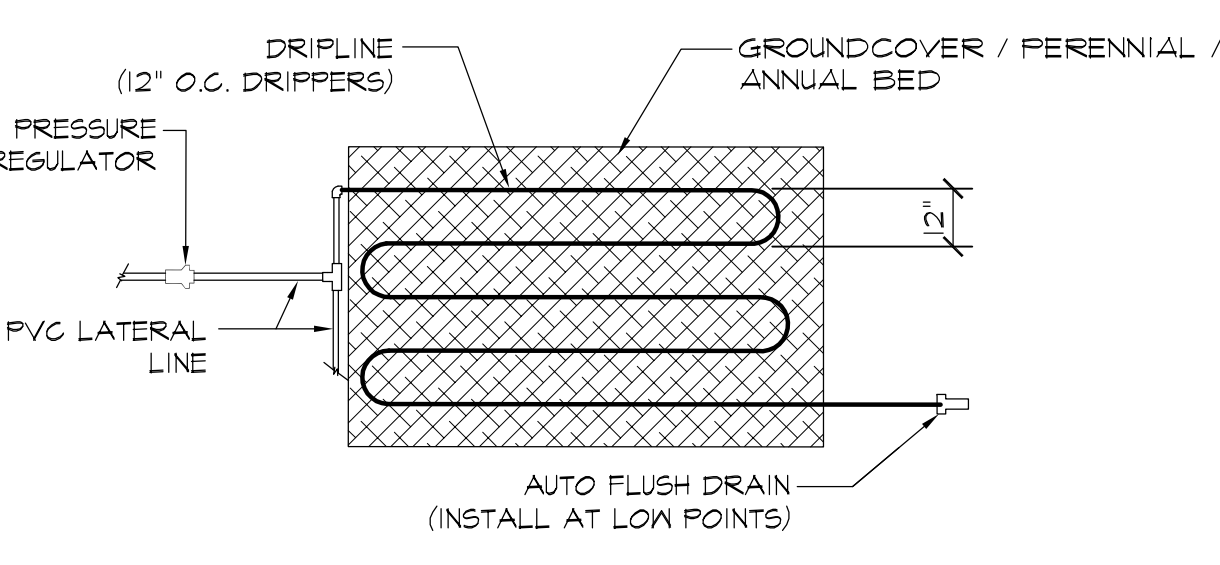
B ELECTRIC VALVE-DRIP ZONE
I-2 SECTION NOT TO SCALE



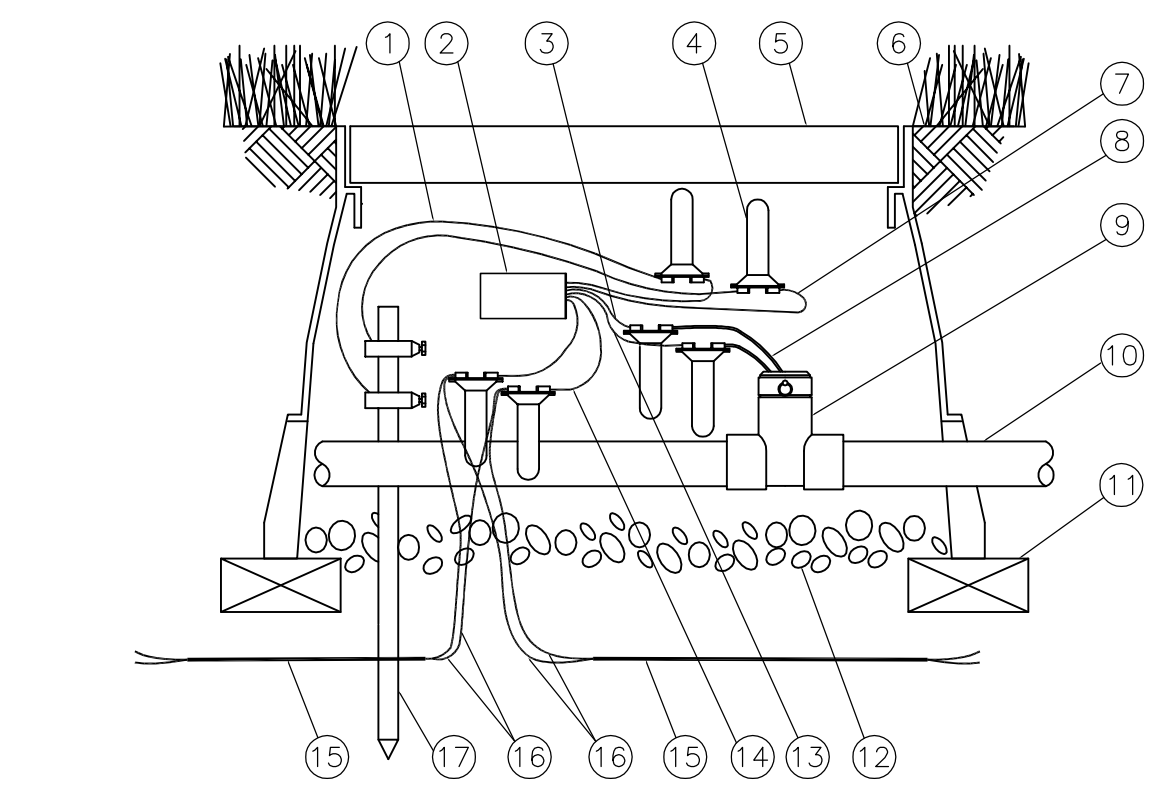
E DRIPLINE IN SHRUBS
I-2 PLAN NOT TO SCALE



C ELECTRIC VALVE
I-2 SECTION NOT TO SCALE



F DRIPLINE IN GROUNDCOVER
I-2 PLAN NOT TO SCALE



NOTES:
1. MAXIMUM LENGTH OF SECONDARY WIRE PATH (14 AWG) FROM DECODER TO RELAY IS 450 FEET.
2. PLACE 3- FEET OF EXTRA WIRE IN VALVE BOX FOR EASY SERVICING.
3. IN A SITE CONTROL DECODER SYSTEM A PULSE TRANSMITTER (PT322) SHOULD BE INSTALLED BETWEEN THE SENSOR DECODER AND THE FLOW SENSOR. THIS IS NOT NEEDED IN AN ESP-LXD CONTROLLER SYSTEM.
4. GROUNDING SHOULD BE TO 10 OHMS OR LESS.

H DECODER AND FLOW SENSOR
I-2 SECTION NOT TO SCALE

IRRIGATION NOTES

- ALL PLASTIC PIPE FITTINGS TO BE MINIMUM SCHEDULE 40 PVC.
- ALL MAIN LINES TO BE SCHEDULE 40 PVC OR SCHEDULE 200 PVC.
- ALL LATERAL LINES TO BE SCHEDULE 200 PVC OR SCHEDULE 160 PVC.
- COORDINATE WITH GENERAL CONTRACTOR FOR INSTALLATION OF SCHEDULE 40 PVC PIPE UNDER PAVED SURFACES AS NOTED ON THE DRAWINGS TO BE UTILIZED FOR IRRIGATION SLEEVING. THE LOCATION OF SLEEVING IS MARKED ON THE IRRIGATION PLAN. DEVIATIONS MAY OCCUR DURING CONSTRUCTION.
- TRENCHES FOR PVC PIPE MAINLINES SHALL BE EXCAVATED TO SUFFICIENT DEPTH OF 18" MINIMUM AND AN SUFFICIENT WIDTH TO PERMIT PROPER HANDLING AND INSTALLATION OF PIPE AND FITTINGS. TRENCHES FOR PVC PIPE LATERAL SPRINKLER LINES SHALL BE EXCAVATED TO SUFFICIENT DEPTH OF 12" MINIMUM AND AN SUFFICIENT WIDTH TO PERMIT PROPER HANDLING AND INSTALLATION OF PIPE AND FITTINGS.
- ALL CONTROL VALVES SHALL BE INSTALLED IN A VALVE BOX IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- ALL WIRING TO BE USED FOR CONNECTING THE AUTOMATIC REMOTE CONTROL VALVE TO THE AUTOMATIC CONTROLLERS SHALL BE TYPE "UF", 14-1, STRANDED OR SOLID COPPER, SINGLE CONDUCTION WIRE WITH PVC INSULATION AND BEAR UL APPROVAL FOR DIRECT UNDERGROUND BURIAL FEEDER CABLE. WIRE CONNECTIONS TO REMOTE CONTROL ELECTRIC VALVES AND SPLICES OF WIRE IN THE FIELD SHALL BE PEN-TITE WIRE CONNECTORS OR APPROVED EQUAL AND SCALING CEMENT.
- THE IRRIGATION CONTRACTOR SHALL CONNECT ALL VALVE WIRING TO A SPECIFIED CONTROLLER LOGGATED AS NOTED ON THIS PLAN.
- ALL CONTROL VALVE CABLES SHALL BE INSTALLED BY DIRECT BURIAL AT A MINIMUM DEPTH OF 12". WHERE PRACTICAL, THE WIRE SHALL BE INSTALLED IN THE SAME TRENCH AS THE MAINLINE PIPE.
- AFTER COMPLETION OF THE PIPING INSTALLATION, THE CONTRACTOR SHALL FURNISH AN "AS-BUILT" DRAWING SHOWING ALL SPRINKLER HEADS, VALVES, DRAINS AND PIPE LINES TO SCALE WITH DIMENSIONS WHERE REQUIRED. INSTRUCTION SHEETS AND PARTS LISTS COVERING ALL OPERATING EQUIPMENT WILL BE BOUND INTO A FOLDER AND FURNISHED TO THE OWNER IN DUPLICATE.
- FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK PERFORMED UNDER THIS CONTRACT, THE CONTRACTOR SHALL PROMPTLY FURNISH, WITHOUT COST TO THE OWNER, ANY AND ALL PARTS AND LABOR WHICH PROVE DEFECTIVE IN MATERIAL OR WORKMANSHIP.
- DURING THE LAST MONTH OF THE GUARANTEE PERIOD, THE LANDSCAPE ARCHITECT AND CONTRACTOR SHALL INSPECT THE INSTALLATION TO DETERMINE THE CONDITION OF THE COMPLETE SYSTEM. A LIST OF DEFECTIVE MATERIALS OR INSTALLATIONS TO BE REPLACED SHALL BE MADE BY THE CONTRACTOR WITHIN THIRTY DAYS OF RECEIVING WRITTEN NOTIFICATION. REPLACED MATERIALS AND INSTALLATION SHALL BE IN ACCORD WITH THESE SPECIFICATIONS, DRAWINGS AND OR SCHEDULES.

- GREEN/YELLOW WIRE FROM SD-210TURF TO GROUNDING ROD BRASS CLAMP (1 OF 2)
- SENSOR DECODER: RAIN BIRD SD-210TURF M13009 SENSOR DECODER
- RED WIRE FROM SD-210TURF TO FLOW SENSOR
- DB SERIES WIRE CONNECTOR: RAIN BIRD DBTWC25 (1 OF 6)
- 12-INCH VALVE BOX WITH COVER: RAIN BIRD VB-STD
- FINISH GRADE OR TOP OF MULCH
- GROUND WIRE FROM SD-210TURF TO DB SERIES WIRE CONNECTOR (1 OF 2)
- FLOW SENSOR WIRE (1 OF 2)
- FLOW SENSOR
- PVC MAINLINE PIPE
- BRICK (1 OF 4)
- 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
- BLACK WIRE FROM SD-210TURF TO FLOW SENSOR
- BLUE WIRE FROM SD-210TURF (1 OF 2)
- TWO-WIRE CABLE TO NEXT DEVICE (FIELD DECODER, SENSOR DECODER, LINE SURGE PROTECTOR OR ESP-LXD CONTROLLER)
- COMMUNICATION WIRE TO NEXT DEVICE (FIELD DECODER, SENSOR DECODER, LINE SURGE PROTECTOR, OR ESP-LXD CONTROLLER)
- GROUNDING ROD

Revisions

Date

GRIMBALL & ASSOCIATES
COTTERILL
GREENE STREET PEDESTRIAN CORRIDOR
IRRIGATION DETAILS

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GRIMBALL & ASSOCIATES
COTTERILL
REGISTERED LANDSCAPE ARCHITECT
No. 470
SOUTH CAROLINA
REGISTERED LANDSCAPE ARCHITECT
No. 049

Drawn by: SKC

Checked by: TMC

Date: 5/4/16

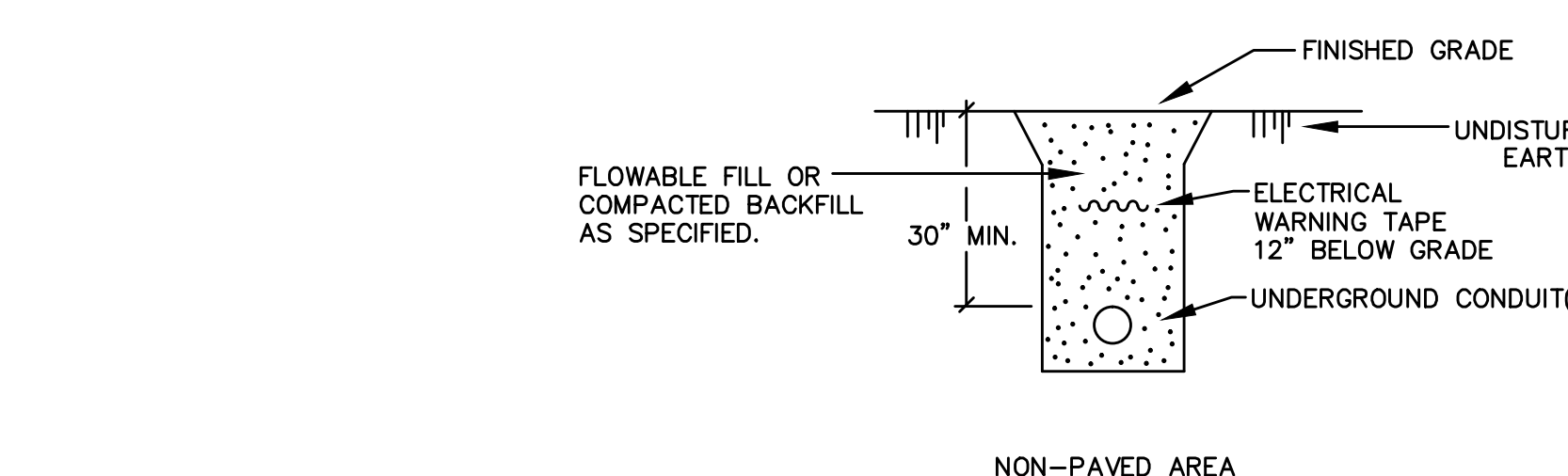
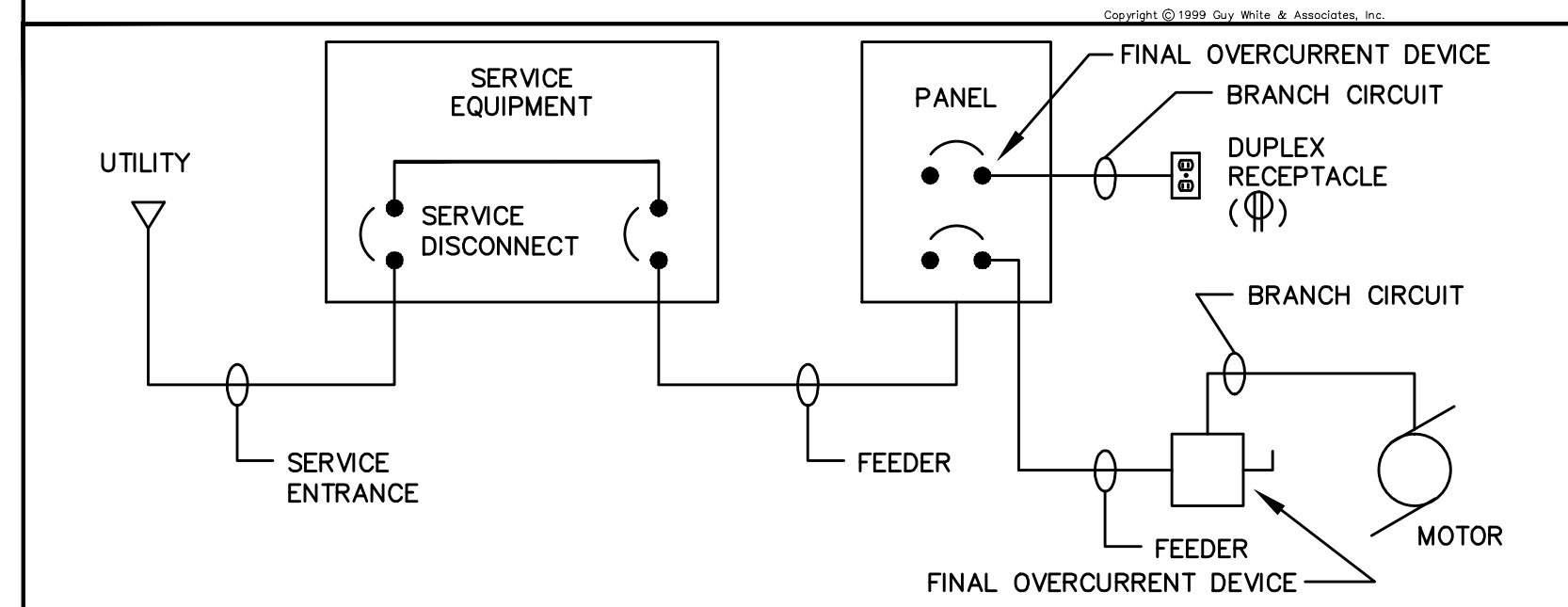
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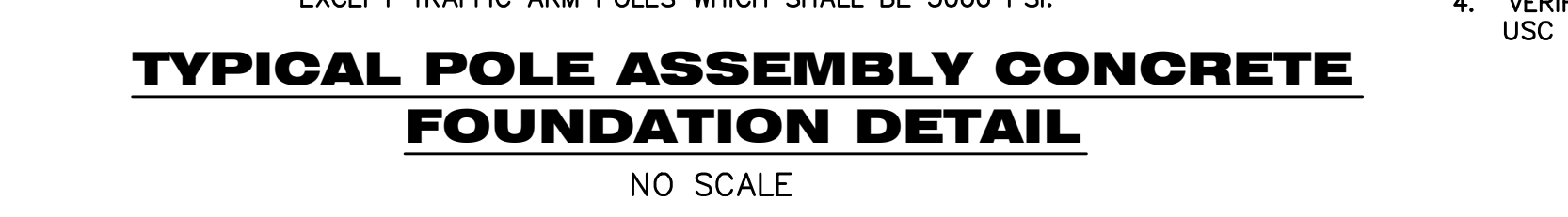
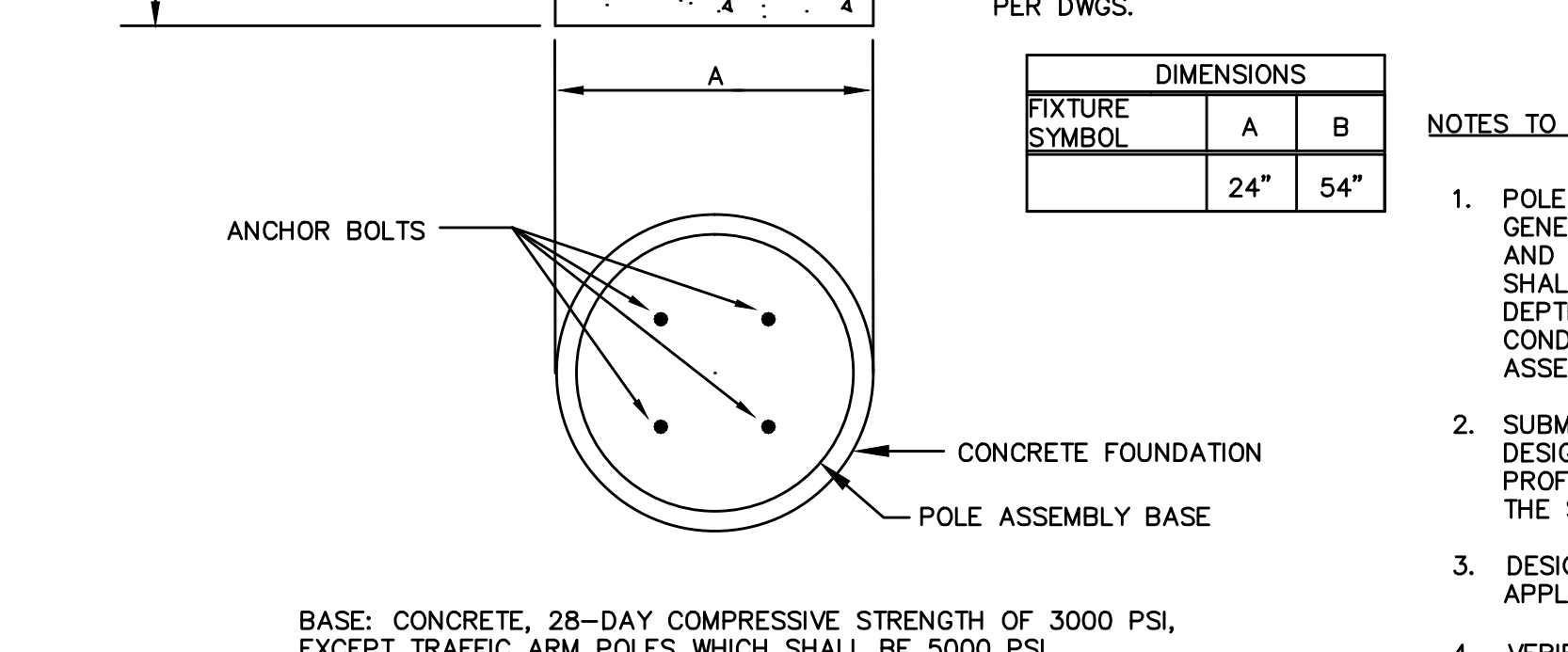
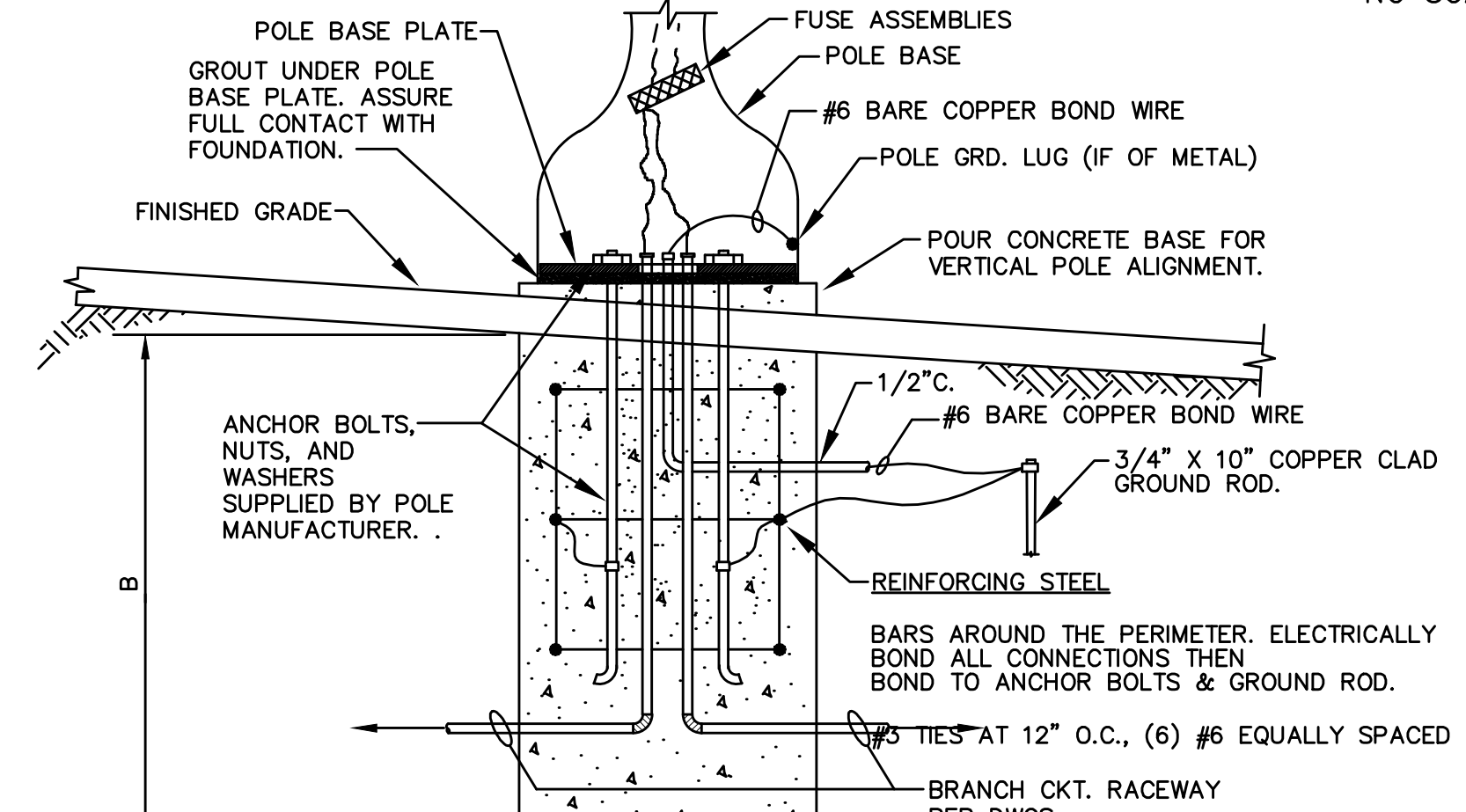
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RACEWAY MATERIAL USE TABLE

APPLICATION	RACEWAY MATERIAL						
	EMT	IMC	GRS	40 PVC	EMT	AC/AC CABLE	MFD. WIRING
CONCEALED ABOVE CEILING	●	●	●				
CONCEALED IN WALLS	●	●	●				
EXPOSED FROM FLOOR TO 7'-0" A.F.F. (INTERIOR)		●	●				
EXPOSED FROM 7'-0" A.F.F. AND ABOVE (INTERIOR)	●	●	●				
IN OR UNDER CONCRETE FLOORS		(1)	(1)		NOT PERMITTED	NOT PERMITTED	NOT PERMITTED
OUTDOORS - BELOW GRADE		(1)	(1)		NOT PERMITTED	NOT PERMITTED	NOT PERMITTED
OUTDOORS - EXPOSED		●	●				
STUB-UPS BELOW PANELS & ENCLOSURES		●	●				
FEEDER CONDUITS				(2)			
SERVICE ENTRANCE				(2)			



UNDERGROUND CONDUIT NOT IN A DUCTBANK



BASE: CONCRETE, 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI, EXCEPT TRAFFIC ARM POLES WHICH SHALL BE 5000 PSI.

ABBREVIATIONS

THE FOLLOWING STANDARD ABBREVIATIONS ARE USED IN THESE PLANS AND SPECIFICATIONS. CONTRACTOR IS CAUTIONED THAT ALL ABBREVIATIONS LISTED MAY NOT BE USED; CONSULT PLANS AND SPECIFICATIONS FOR ABBREVIATIONS APPLICABLE TO THIS PROJECT.

A.F.F. ABOVE FINISHED FLOOR
 B.F.F. BELOW FINISHED FLOOR
 A.F.G. ABOVE FINISHED GRADE
 B.F.G. BELOW FINISHED GRADE
 U.N.O. UNLESS NOTED OTHERWISE
 CKT. CIRCUIT
 C. CONDUIT
 E.C. EMPTY CONDUIT
 FLX. FLEXIBLE CONDUIT
 WFLX. WEATHERPROOF FLEXIBLE CONDUIT

BRANCH CIRCUIT WIRING - HASHMARK CODE

BRANCH CIRCUITS SHOWN ON THESE DRAWINGS MAY INCLUDE HASHMARKS WHICH INDICATE THE NUMBER OF WIRES TO BE PROVIDED IN A CONDUIT RUN BETWEEN OUTLETS OR JUNCTION BOXES. WIRE SIZES SHALL BE AS TABULATED IN PANELBOARD SCHEDULES UNLESS OTHERWISE INDICATED ON PLAN. SEE SYMBOL SCHEDULE FOR CONDUIT ROUTING NOTATION. HASHMARK CODE IS AS FOLLOWS:

EACH PHASE AND NEUTRAL WIRE IN A CONDUIT RUN IS REPRESENTED BY A HASHMARK. FOR EXAMPLE -

→ TWO WIRES (NO HASHMARKS)
 //→ THREE WIRES (3 HASHMARKS)
 ///→ FOUR WIRES (4 HASHMARKS)
 ////→ FIVE WIRES (5 HASHMARKS)
 ... AND SO FORTH.

NOTE: GROUND WIRES ARE NOT GENERALLY SHOWN. EXAMINE SPECIFICATIONS AND GENERAL NOTES TO DETERMINE REQUIREMENTS FOR GROUND WIRES AND WHERE SPECIFIED, PROVIDE IN ADDITION TO THE NUMBER OF WIRES INDICATED BY HASHMARK CODE.

NOTE: CONTRACTOR IS CAUTIONED THAT MULTI-WIRE (LINE-TO-NEUTRAL) BRANCH CIRCUITS DO NOT INDICATE ALL REQUIRED NEUTRAL CONDUCTORS. PROVIDE SEPARATE NEUTRAL CONDUCTORS (WITH COLORED STRIPE TO MATCH PHASE CONDUCTOR) FOR EACH PHASE CONDUCTOR.

EMPTY CONDUITS ARE NOTED BY "EC" WITH TRADE SIZE.

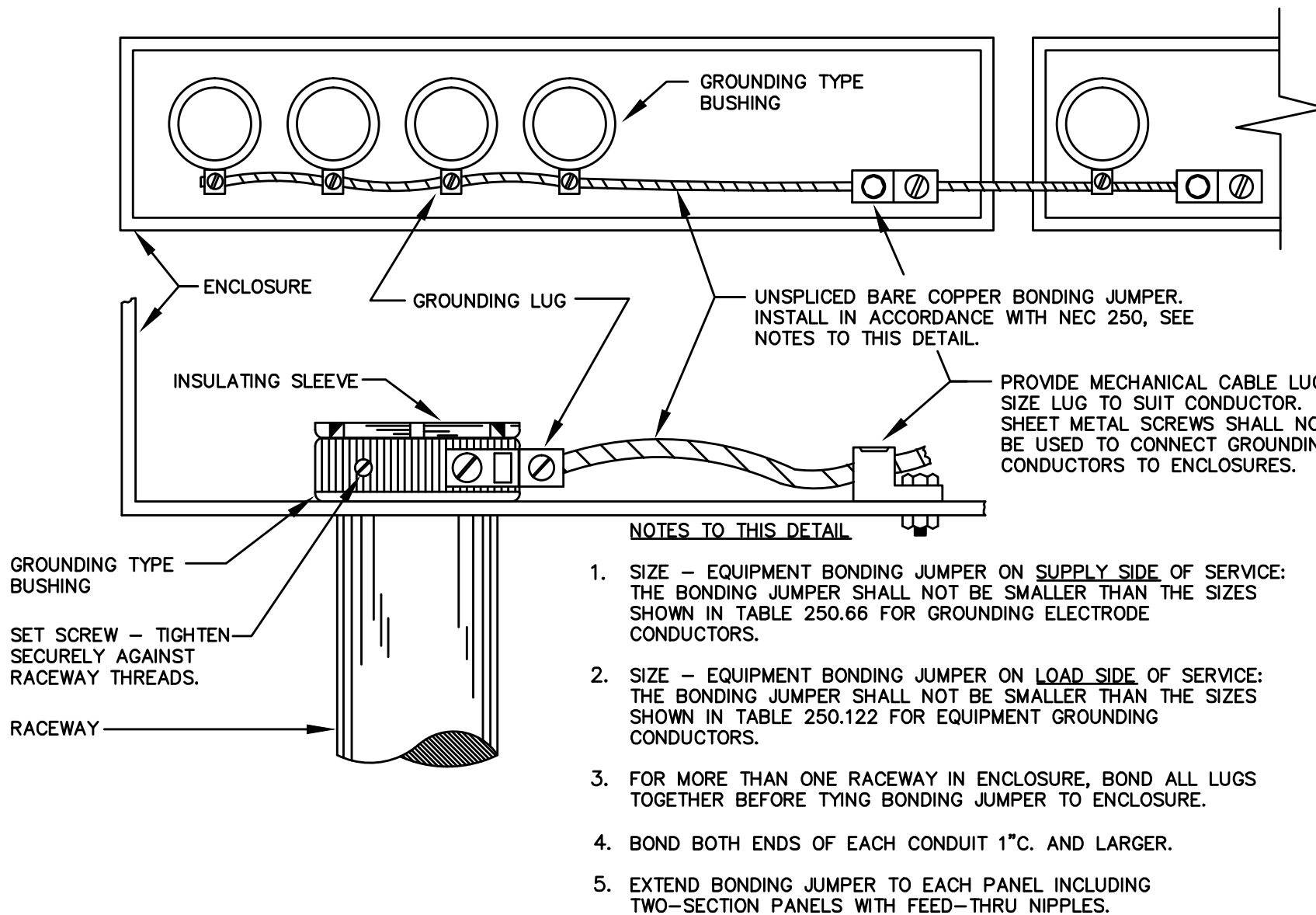
GENERAL NOTES

- DO NOT SCALE DRAWINGS UNLESS DIMENSIONS ARE SHOWN. LOCATE LIGHTING FIXTURES AND EQUIPMENT AS OBVIOUSLY INDICATED AND COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS. SEE CIVIL PLANS.
- MINIMUM SIZE CONDUCTOR FOR POWER SHALL BE NO. 12 AWG. ALL CONDUCTORS SHALL BE COPPER.
- ALL FUSES SHALL BE DUAL-ELEMENT TYPE, "FUSETRON" BY BUSSMAN, OR "ECON" BY ECONOMY.
- BRANCH CIRCUIT SIZES ARE AWG 12-3/4" C. UNLESS OTHERWISE NOTED IN PANELBOARD SCHEDULES.
- ALL BRANCH CIRCUIT LOADS SHALL BE BALANCED ACROSS PANELBOARD BUSES TO OBTAIN MINIMUM NEUTRAL CURRENT.
- ALL FLEXIBLE CONDUIT SHALL CONTAIN A GREEN WIRE BONDED TO RIGID RACEWAY, BOX OR FIXTURE AT EACH END OF FLEX. SIZE GROUND WIRE PER N.E.C. TABLE 250-122.
- CONTRACTOR IS CAUTIONED THAT WORK SHALL BE COMPLETED IN PHASES AS REQUIRED TO MAINTAIN USE OF STREETS, SIDEWALKS, BUSINESSES AND THE LIKE. REFER TO LANDSCAPE ARCHITECT AND CIVIL PLANS FOR PHASING OF WORK.
- ALL WORK SHALL COMPLY WITH NFPA, ADA, AASHTO, SCDOT, CITY OF COLUMBIA AND ALL OTHER APPLICABLE CODES AND STANDARDS.
- SEE CIVIL AND UTILITY PLANS FOR DUCTBANKS, MANHOLES, HANDHOLES AND ADDITIONAL NEW UTILITIES. VERIFY EXACT LOCATIONS OF HANDHOLES, RISER POLES, PEDASTALS AND THE LIKE WITH UTILITIES.
- NEW DUCTBANK WITH MANHOLES, HANDHOLES, SPLICE VAULTS, TRAFFIC INFRASTRUCTURE AND OTHER UTILITIES ARE INDICATED ON CIVIL PLANS.
- CONDUIT ROUTING SHOWN DOES NOT INDICATE PATH OF ROUTING-SHOWN FOR CLARITY ONLY. ROUTE CONDUITS IN R.O.W. SEE CIVIL PLANS.
- COORDINATE ALL NEW METER POINT LOCATIONS AND SERVICE LOCATIONS WITH SCE&G PRIOR TO BIDDING.
- ALL CONDUIT ELBOWS BELOW GRADE SHALL BE BITUMINOUS COATED GRS.
- IF REQUIRED TO SUIT LUGS, PROVIDE HYDRAULIC CRIMP TYPE WIRE REDUCERS IN METER CENTER AS REQUIRED TO CONNECT FEEDER CONDUCTORS TO CONTACTOR/CIRCUIT BREAKERS.
- MINIMUM COVER FOR LIGHTING, TRAFFIC CONTROL AND IRRIGATION POWER CIRCUITS SHALL BE 30".
- CONTRACTOR IS CAUTIONED THAT THESE PLANS ARE DIAGRAMMATIC ONLY AND THAT EXACT LOCATIONS AND ROUTINGS FOR NEW WORK SHALL BE AS OBVIOUSLY INDICATED AND AS DIRECTED BY OWNER, WITH MODIFICATIONS AS REQUIRED TO AVOID CONFLICTS IN THE FIELD. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND

ELECTRICAL SYMBOLS

○	OUTDOOR LIGHTING STANDARD & FIXTURE	□	PUSHBUTTON
□	OUTDOOR LIGHTING STANDARD & FIXTURE	○	BUZZER, BELL OR CHIME
■	TRANSFORMER	⊕	CONNECTION TO EXISTING CIRCUIT
□	PANELBOARD	—	BRANCH CIRCUIT RACEWAY - CONCEALED IN WALL OR CEILING
□	SAFETY SWITCH	—	BRANCH CIRCUIT RACEWAY - CONCEALED IN FLOOR OR UNDERGROUND
⊕	FLUSH JUNCTION BOX CEILING (⊕-WALL)	—	BRANCH CIRCUIT RACEWAY - EXPOSED
⊕	PULL BOX OR JUNCTION BOX IN FLOOR	⊗	TYPICAL: SYMBOLS DENOTE EXISTING. REMOVE COMPLETE.
⊕	CONDUIT STUB	⊗	TYPICAL: "X" ON PLAN SYMBOLS DENOTES EXISTING. REMOVE COMPLETE.
⊕	DUPLEX RECEPTACLE (⊕-HIGH MOUNT)		
⊕	WEATHERPROOF DUPLEX RECEPTACLE. 16" UP		
⊕	GROUND FAULT INTERRUPTER RECEPTACLE		
⊕	EMERGENCY CALL BOX		
EX	EXISTING; TO REMAIN		
ER	EXISTING; BEING RELOCATED		
EN	EXISTING; NEW LOCATION		

NOTE: ALL DEVICES SHOWN ON THIS SCHEDULE ARE SYMBOLIC ONLY. SEE ELECTRICAL SPECIFICATIONS FOR EXACT DEVICE REQUIREMENTS AND PERFORMANCE CHARACTERISTICS.

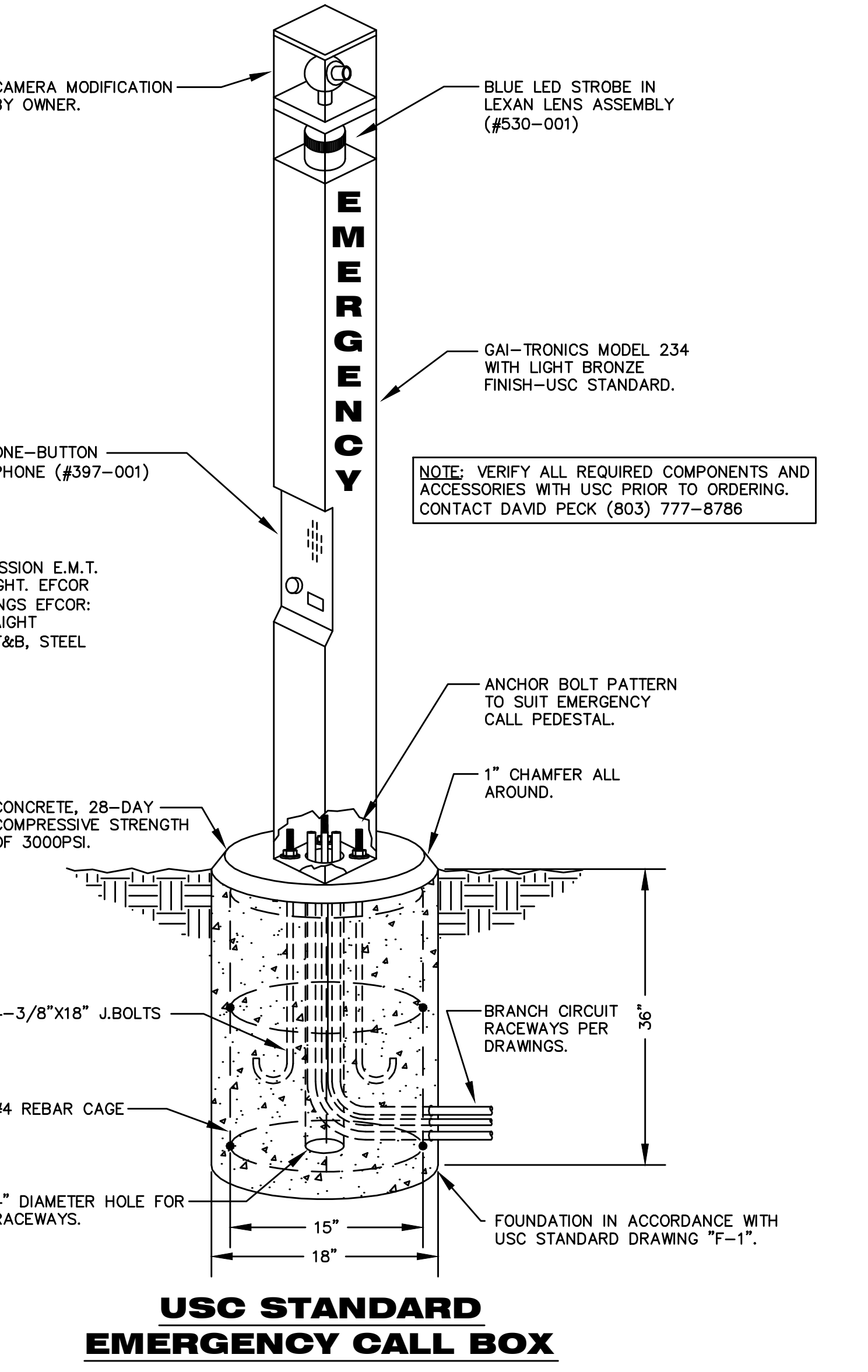


GROUNDING OF CONDUITS 1" C. AND LARGER

- SIZE - EQUIPMENT BONDING JUMPER ON SUPPLY SIDE OF SERVICE: THE BONDING JUMPER SHALL NOT BE SMALLER THAN THE SIZES SHOWN IN TABLE 250.66 FOR GROUNDING ELECTRODE CONDUCTORS.
- SIZE - EQUIPMENT BONDING JUMPER ON LOAD SIDE OF SERVICE: THE BONDING JUMPER SHALL NOT BE SMALLER THAN THE SIZES SHOWN IN TABLE 250.122 FOR EQUIPMENT GROUNDING CONDUCTORS.
- FOR MORE THAN ONE RACEWAY IN ENCLOSURE, BOND ALL LUGS TOGETHER BEFORE TYING BONDING JUMPER TO ENCLOSURE.
- BOND BOTH ENDS OF EACH CONDUIT 1" C. AND LARGER.
- EXTEND BONDING JUMPER TO EACH PANEL INCLUDING TWO-SECTION PANELS WITH FEED-THRU NIPPLES.

COMPRESSION TYPE CONDUIT FITTING

STEEL OR MALLEABLE IRON COMPRESSION E.M.T. FITTING RAIN TIGHT & CONCRETE TIGHT. EFCOR #761 FOR 3/4" E.M.T. (OTHER FITTINGS EFCOR: #771B 90° CONNECTOR; #751B STRAIGHT CONNECTOR). EQUALS BY REGAL, T&B, STEEL CITY.



USC STANDARD EMERGENCY CALL BOX

Revisions	Date

GRIMBALL GREENE STREET PEDESTRIAN IMPROVEMENTS & ASSOCIATES ELECTRICAL NOTES, SCHEDULES, AND DETAILS

600 BELTLINE BOULEVARD COLUMBIA, SC 29205 (803) 728-9525

LANDSCAPE ARCHITECTS & LAND PLANNERS

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GRIMBALL & ASSOCIATES COTTERILL

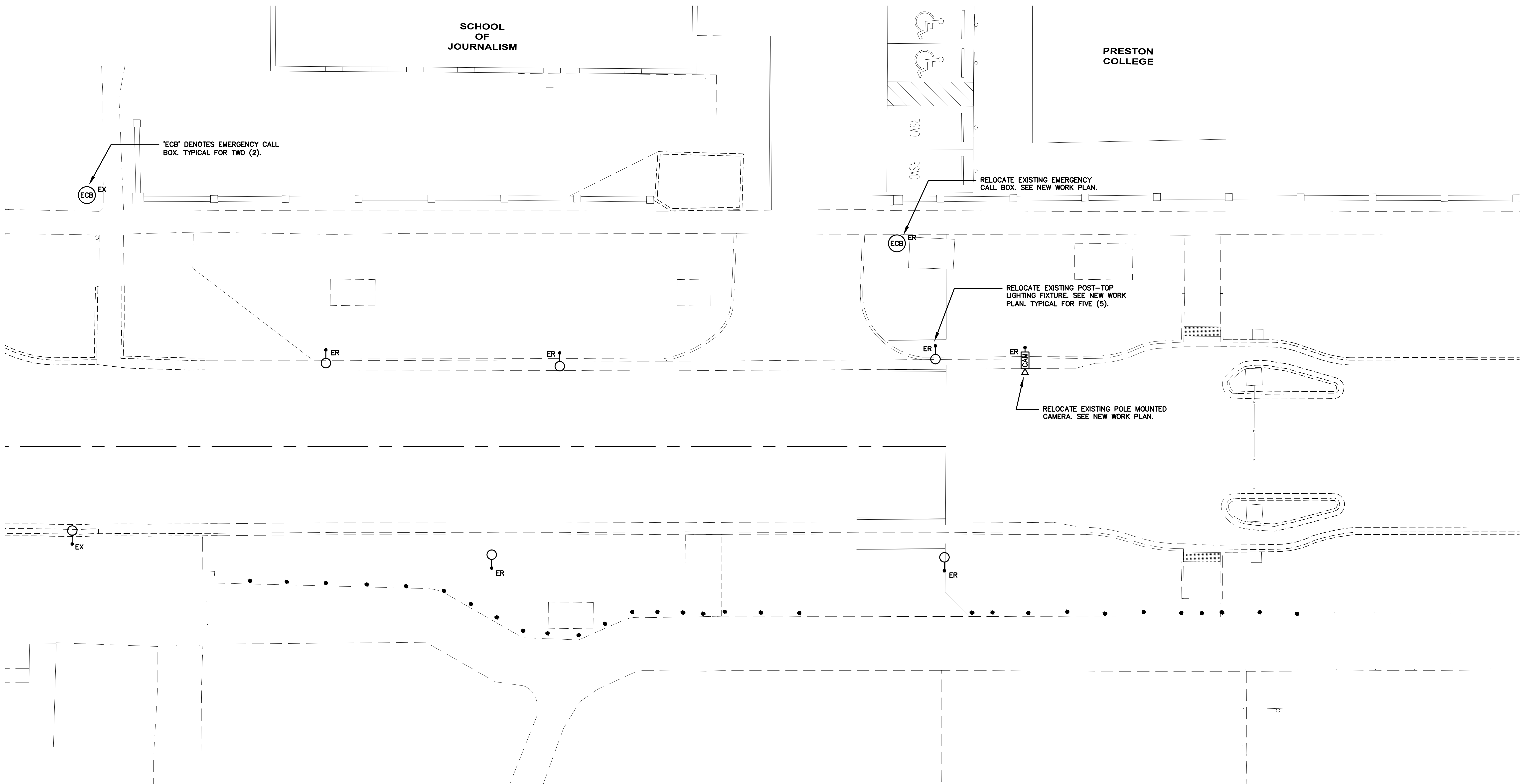
SOUTH CAROLINA ENGINEERS No. 000825

SOUTH CAROLINA ENGINEERS No. 5-6-16

Drawn by: CAW
 Checked by: SDO
 Date: 5/6/16
 Drawing No. E001
 Sheet No. 1 OF 3

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 http://www.gwainc.net

GWA inc. Electrical Engineers



"ECB" DENOTES EMERGENCY CALL BOX. TYPICAL FOR TWO (2).

RELOCATE EXISTING EMERGENCY CALL BOX. SEE NEW WORK PLAN.

RELOCATE EXISTING POST-TOP LIGHTING FIXTURE. SEE NEW WORK PLAN. TYPICAL FOR FIVE (5).

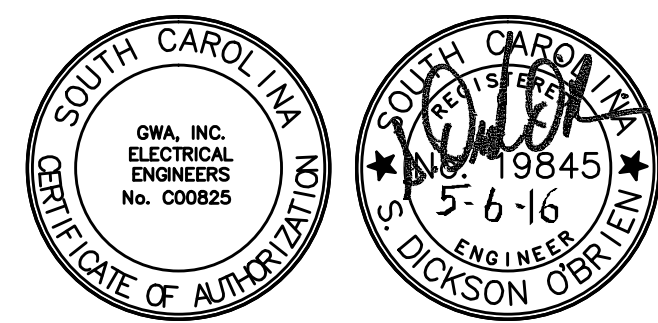
RELOCATE EXISTING POLE MOUNTED CAMERA. SEE NEW WORK PLAN.

ELECTRICAL SITE DEMOLITION PLAN

SCALE: 1" = 10'-0"



KEY PLAN
SCALE: 1" = 1000'



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Date	Revisions

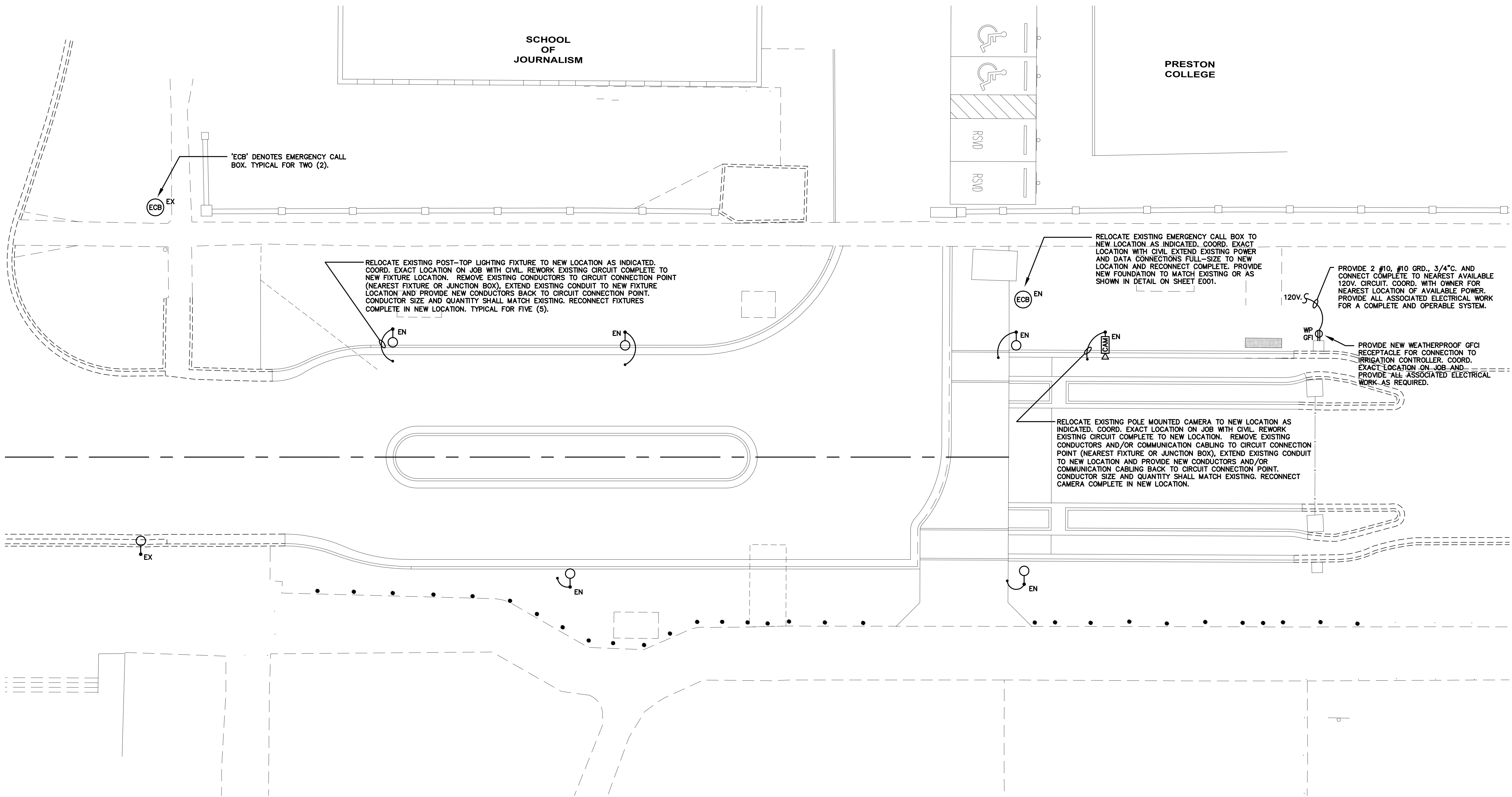
**GREENE STREET PEDESTRIAN IMPROVEMENTS
 ELECTRICAL SITE DEMOLITION PLAN**

**GRIMBALL
 & ASSOCIATES
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Drawing No.	ES100
Sheet No.	OF 3



'ECB' DENOTES EMERGENCY CALL BOX. TYPICAL FOR TWO (2).

RELOCATE EXISTING POST-TOP LIGHTING FIXTURE TO NEW LOCATION AS INDICATED. COORD. EXACT LOCATION ON JOB WITH CIVIL. REWORK EXISTING CIRCUIT COMPLETE TO NEW FIXTURE LOCATION. REMOVE EXISTING CONDUCTORS TO CIRCUIT CONNECTION POINT (NEAREST FIXTURE OR JUNCTION BOX), EXTEND EXISTING CONDUIT TO NEW FIXTURE LOCATION AND PROVIDE NEW CONDUCTORS BACK TO CIRCUIT CONNECTION POINT. CONDUCTOR SIZE AND QUANTITY SHALL MATCH EXISTING. RECONNECT FIXTURES COMPLETE IN NEW LOCATION. TYPICAL FOR FIVE (5).

RELOCATE EXISTING EMERGENCY CALL BOX TO NEW LOCATION AS INDICATED. COORD. EXACT LOCATION WITH CIVIL. EXTEND EXISTING POWER AND DATA CONNECTIONS FULL-SIZE TO NEW LOCATION AND RECONNECT COMPLETE. PROVIDE NEW FOUNDATION TO MATCH EXISTING OR AS SHOWN IN DETAIL ON SHEET E001.

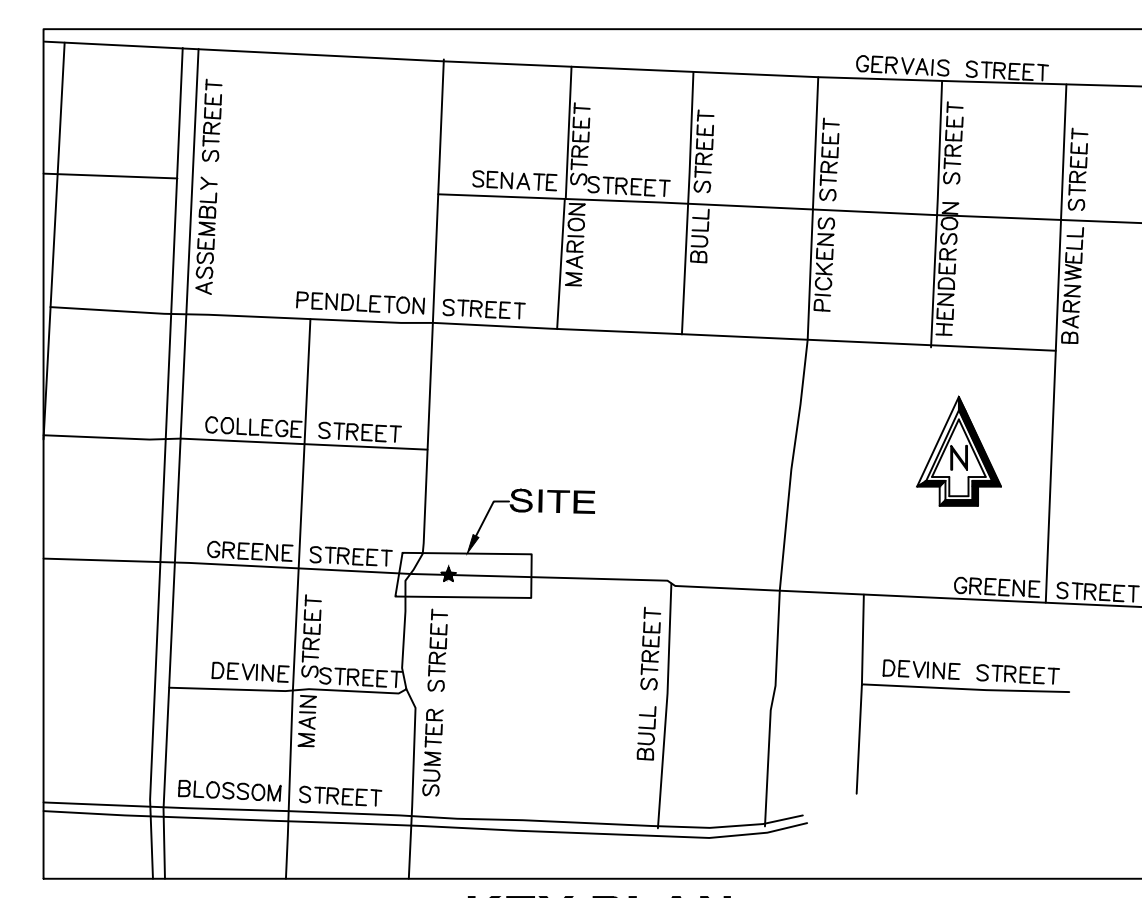
PROVIDE 2 #10, #10 GRD., 3/4" C. AND CONNECT COMPLETE TO NEAREST AVAILABLE 120V. CIRCUIT. COORD. WITH OWNER FOR NEAREST LOCATION OF AVAILABLE POWER. PROVIDE ALL ASSOCIATED ELECTRICAL WORK FOR A COMPLETE AND OPERABLE SYSTEM.

PROVIDE NEW WEATHERPROOF GFCI RECEPTACLE FOR CONNECTION TO IRRIGATION CONTROLLER. COORD. EXACT LOCATION ON JOB AND PROVIDE ALL ASSOCIATED ELECTRICAL WORK AS REQUIRED.

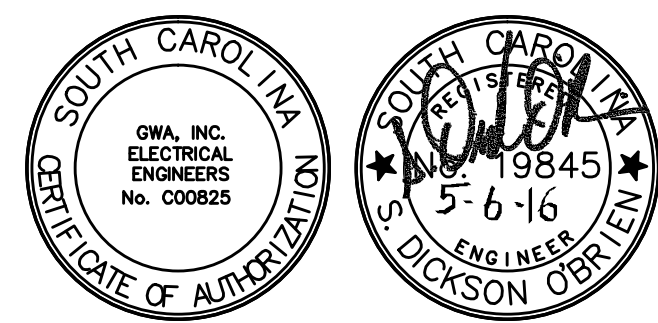
RELOCATE EXISTING POLE MOUNTED CAMERA TO NEW LOCATION AS INDICATED. COORD. EXACT LOCATION ON JOB WITH CIVIL. REWORK EXISTING CIRCUIT COMPLETE TO NEW LOCATION. REMOVE EXISTING CONDUCTORS AND/OR COMMUNICATION CABLING TO CIRCUIT CONNECTION POINT (NEAREST FIXTURE OR JUNCTION BOX), EXTEND EXISTING CONDUIT TO NEW LOCATION AND PROVIDE NEW CONDUCTORS AND/OR COMMUNICATION CABLING BACK TO CIRCUIT CONNECTION POINT. CONDUCTOR SIZE AND QUANTITY SHALL MATCH EXISTING. RECONNECT CAMERA COMPLETE IN NEW LOCATION.

ELECTRICAL SITE PLAN - NEW WORK

SCALE: 1" = 10'-0"



KEY PLAN
SCALE: 1"=1000'



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**GREENE STREET PEDESTRIAN IMPROVEMENTS
ELECTRICAL SITE PLAN - NEW WORK**

Date	Revisions