

USC Greene Street Pedestrian Improvements H27 - Z346



UNIVERSITY OF SOUTH CAROLINA
COLUMBIA, SOUTH CAROLINA

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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, INC.
168 LAURELHURST AVE.
COLUMBIA, SC 29210
(803) 252-6919

5/6/16 REV. 3/23/17

PLAN SET NO.

DEMOLITION	EXISTING	DESCRIPTION
N/A	---	RIGHT OF WAY
////	---	CURB AND GUTTER
////	---	BITUMINOUS SURFACE
////	---	CONCRETE SURFACE
////	---	BRICK PAVEMENT
N/A	---	CONTOURS
N/A	---	SPOT GRADE ELEVATION
N/A	---	BUILDING
N/A	SD	STORM DRAIN LINE w/STRUCTURE
N/A	SS	SANITARY SEWER LINE w/MANHOLE
N/A	---	FIRE HYDRANT
N/A	W	WATER LINE
N/A	WV	WATER VALVE
N/A	W	WATER METER
N/A	---	NATURAL GAS LINE
N/A	UE	UNDERGROUND ELECTRIC
N/A	UE	LIGHT POLE w/UNDERGROUND ELECTRIC
N/A	OHE	OVERHEAD ELECTRIC w/POLE
N/A	T	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

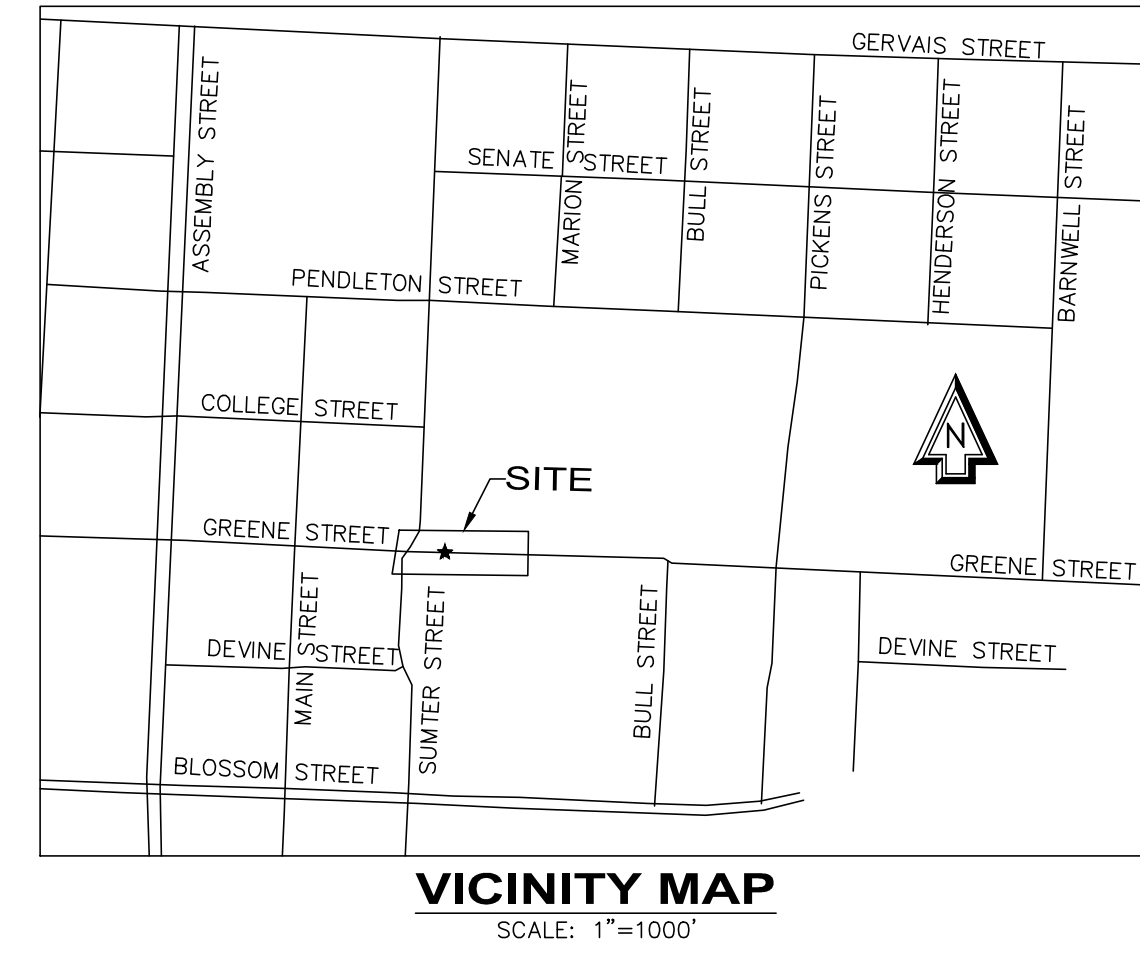
- TOPOGRAPHIC SURVEY WAS COMPLETED BY CHAO AND ASSOCIATES, INC. IN MARCH OF 2016. NO BOUNDARY OR TOPOGRAPHIC SURVEY WAS PERFORMED BY R.B. TODD CONSULTING ENGINEERS.
- OWNER: UNIVERSITY OF SOUTH CAROLINA
OFFICE OF BUSINESS AFFAIRS
COLUMBIA, SC, 29208
PHONE NUMBER: 803-777-4674
CONTACT: EMILY JONES
EMAIL: 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.

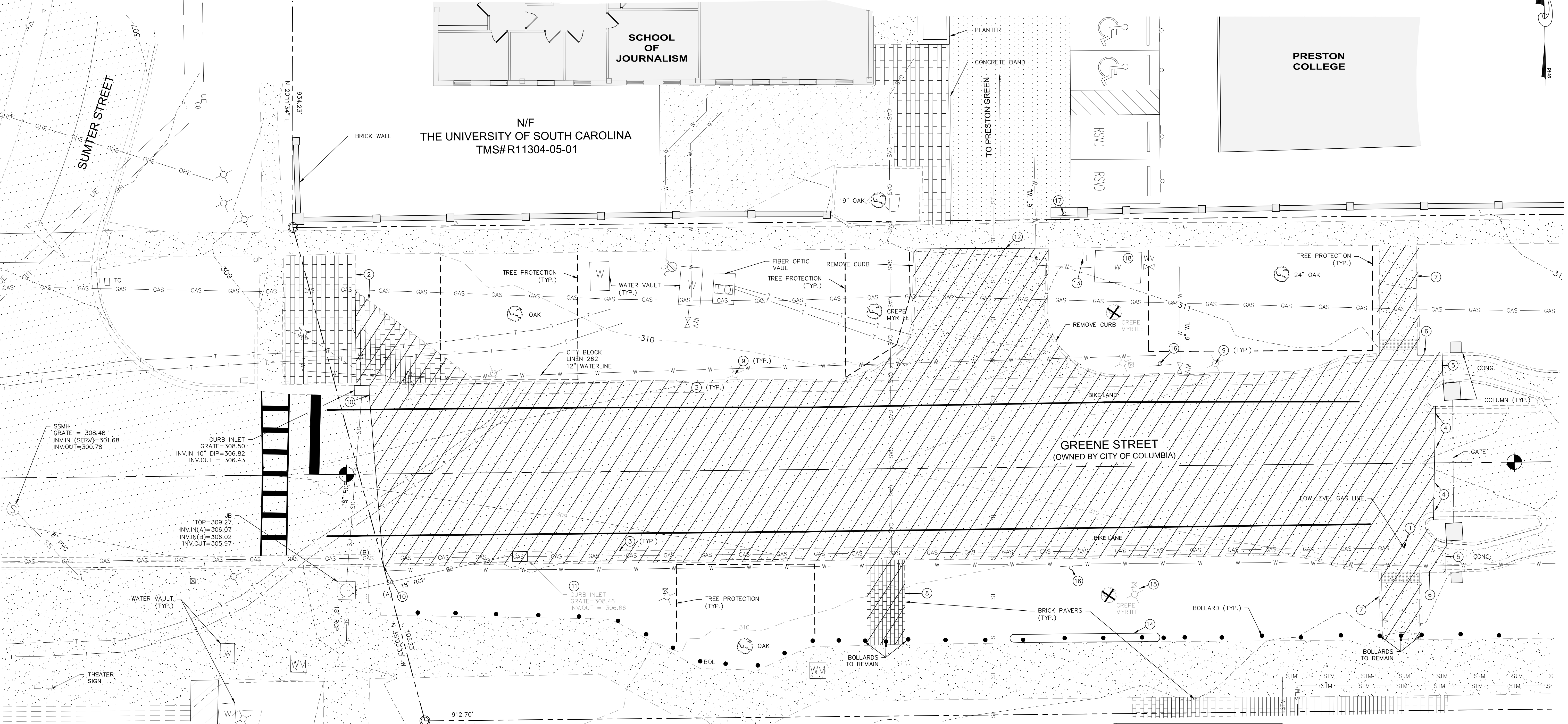
KEY NOTES (CONT.)

- 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.

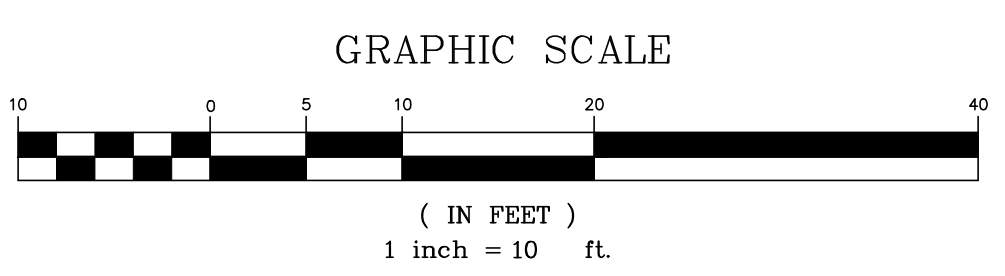


RBTODD CONSULTING ENGINEERS
7406 Broad River Road, Suite 212
Columbia, SC 29905
Tel: 803.761.3141
Fax: 803.761.3142
www.rbtodd.com

Date	Revisions



The Palmetto Utility Protection Service, Inc.
811 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 & ASSOCIATES COTTERILL
LANDSCAPE ARCHITECTS & LAND PLANNERS
600 BELTLINE BOULEVARD COLUMBIA, SC 29205 (803)738-9255

**GREENE STREET PEDESTRIAN IMPROVEMENTS
EXISTING CONDITIONS AND DEMOLITION PLAN**

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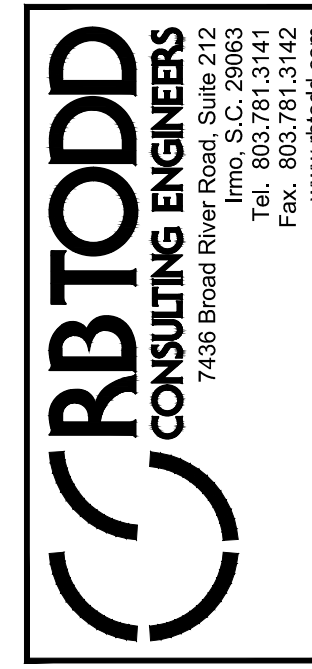
Drawn by:	TLC
Checked by:	RBT
Date:	3/23/17
Drawing No.	C1.1
Sheet No.	OF

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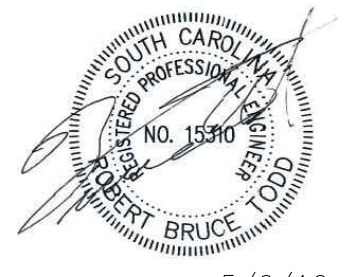
TRAFFIC CONTROL/SECURITY FENCE NOTES

1. INSTALL SECURITY FENCE AROUND AREA #1 AS INDICATED. COMPLETE DEMOLITION AND CONSTRUCTION (NO ASPHALT PAVING). ALLOW TRAFFIC FROM PRESTON GREEN TO FLOW EAST.
2. INSTALL SECURITY FENCE AROUND AREA #2 AS INDICATED. COMPLETE DEMOLITION AND CONSTRUCTION (NO ASPHALT PAVING). ALLOW TRAFFIC FROM PRESTON GREEN TO FLOW WEST.
3. PROVIDE ADEQUATE SIGNAGE TO DIRECT AND INFORM PEDESTRIAN TRAFFIC AT ALL TIMES.
4. 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.
5. COMPLY WITH ALL CONSTRUCTION SAFEGUARD REQUIREMENT OF ICB 2012, CHAPTER 33, LOCAL AHJ, AND SC OSE FOR THE ENTIRE DURATION OF THE PROJECT.
6. AFTER CONSTRUCTION OF ALL ITEMS OTHER THAN ASPHALT PAVING, COORDINATE WITH EMILY JONES (777-4674) PRIOR TO REMOVING SECURITY FENCE AND PAVING.

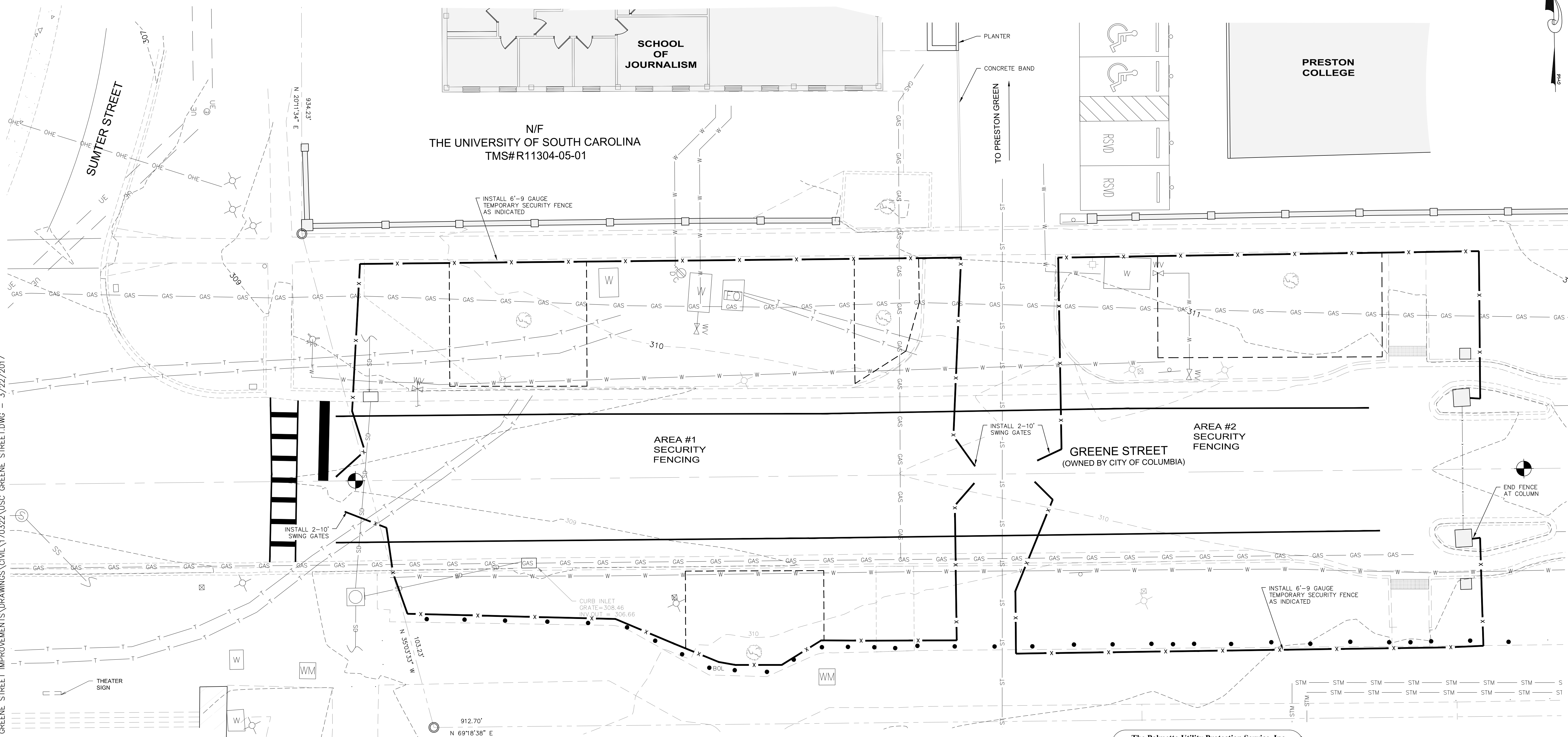


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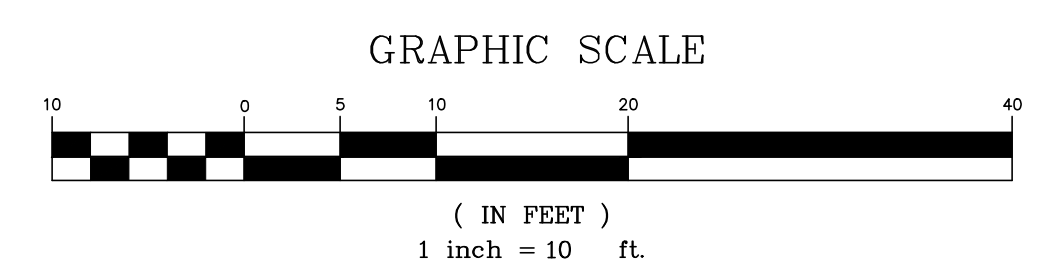
Revisions	Date



5/6/16



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GREENE STREET PEDESTRIAN IMPROVEMENTS
 TRAFFIC CONTROL AND FENCING PLAN

GRIMBALL & ASSOCIATES
 COTTERILL
 LANDSCAPE ARCHITECTS & LAND PLANNERS

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Drawn by:	TLC
Checked by:	RBT
Date:	3/23/17
Drawing No.	C1.2
Sheet No.	OF

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
①	N/A	KEY NOTE REFERENCE
N/A		BOLLARDS
		BIKE LANE STRIPING

Point #	Raw Description	Northing	Easting
1	RADIUS	787012.0301	1991105.0059
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.

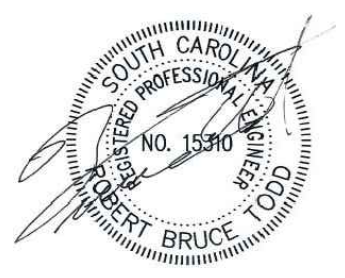
KEY NOTES

- 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 LINE (6") TO EDGE OF SIDEWALK ON NORTHERN END (0").
- DASHED STRIPES (2' LONG WITH 3' GAPS) AS INDICATED.
- RADIUS INDICATED IS APPROXIMATE. THE INTENT IS TO CURVE NEW CURB AND GUTTER AND CONNECT TO EXISTING CURB AND GUTTER AT TANGENT FOR SMOOTH REVERSE CURVE TRANSITION.
- 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.
- COLD JOINT. INSTALL SELF LEVELING SILICONE JOINT SEALANT 30 DAYS AFTER POUR.
- SEE LANDSCAPE ARCHITECTURAL PLANS FOR ALTERNATE PAVERS AT CROSSWALK.

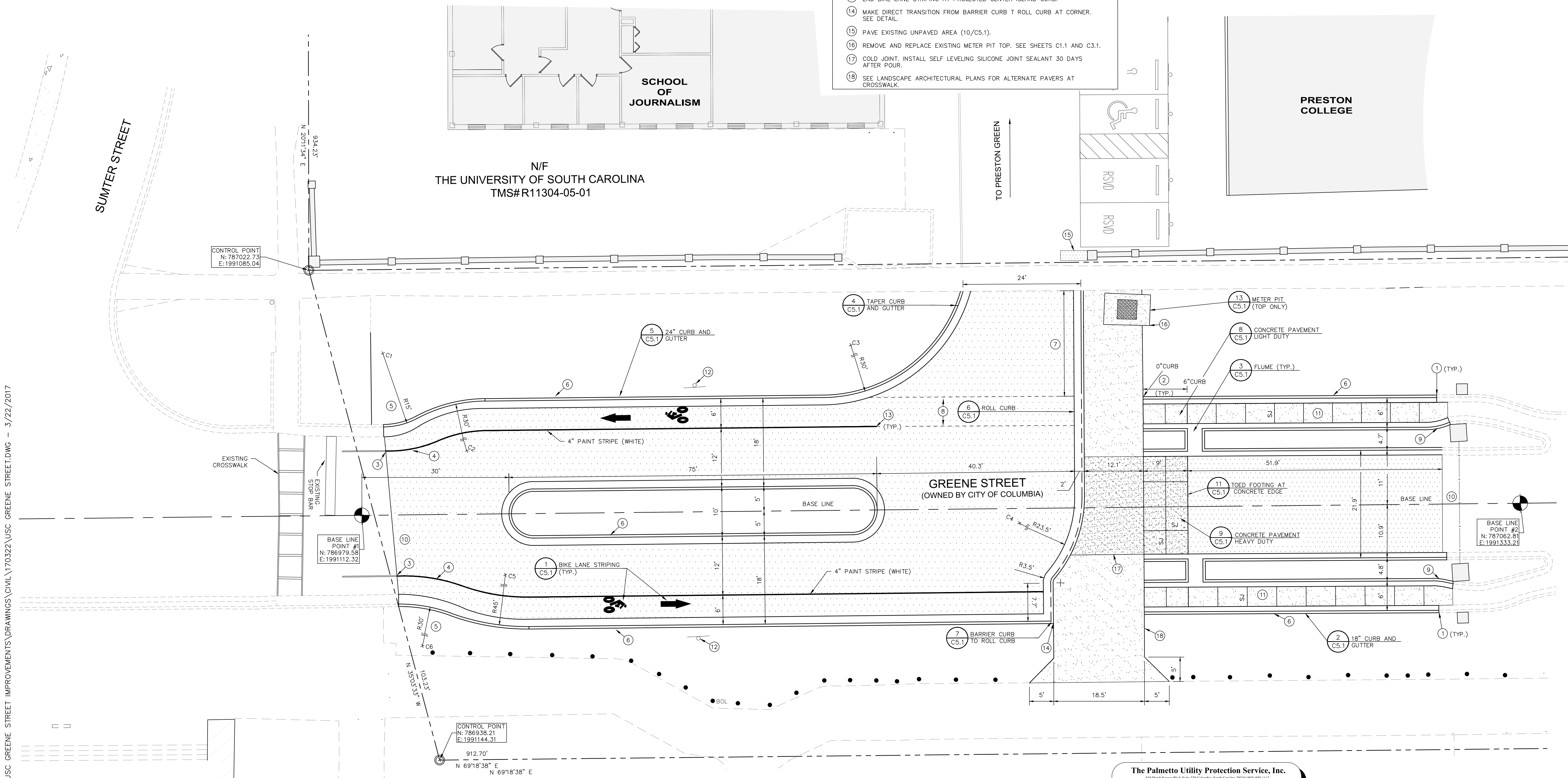


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Date	Revisions



5/6/16

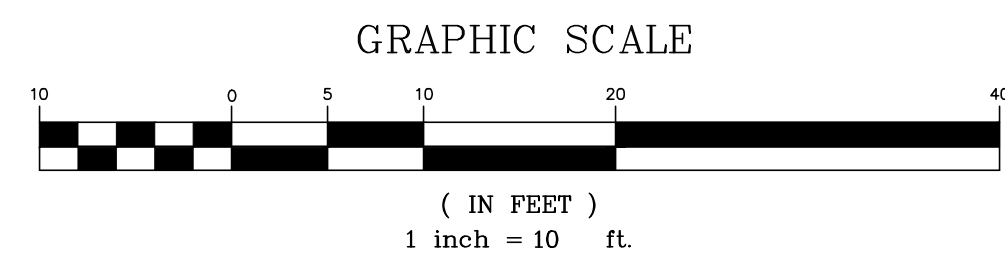


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 LANDSCAPE ARCHITECTS & LAND PLANNERS
 600 BELTLINE BOULEVARD COLUMBIA, SC 29205 (803)738-9225
 GREENE STREET PEDESTRIAN IMPROVEMENTS STAKING PLAN

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Drawn by:	TLC
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Date:	3/23/17
Drawing No.	C2.1
Sheet No.	OF

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South Carolina 811
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CALL 811
 CONTRACTOR SHALL CONTACT THE UNDERGROUND LOCATORS EVERY 10 DAYS FOR AN UPDATE TO UTILITY LOCATIONS.

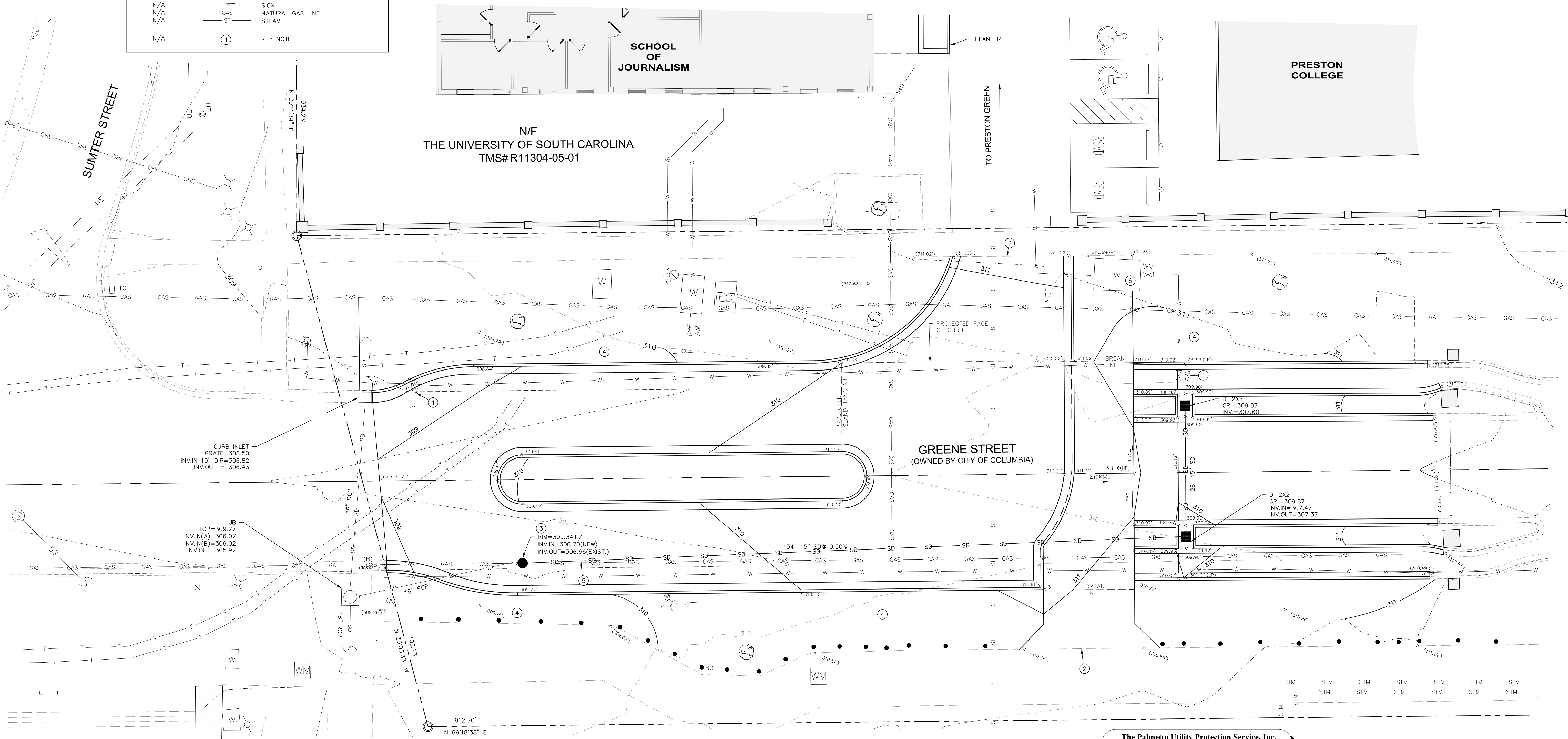
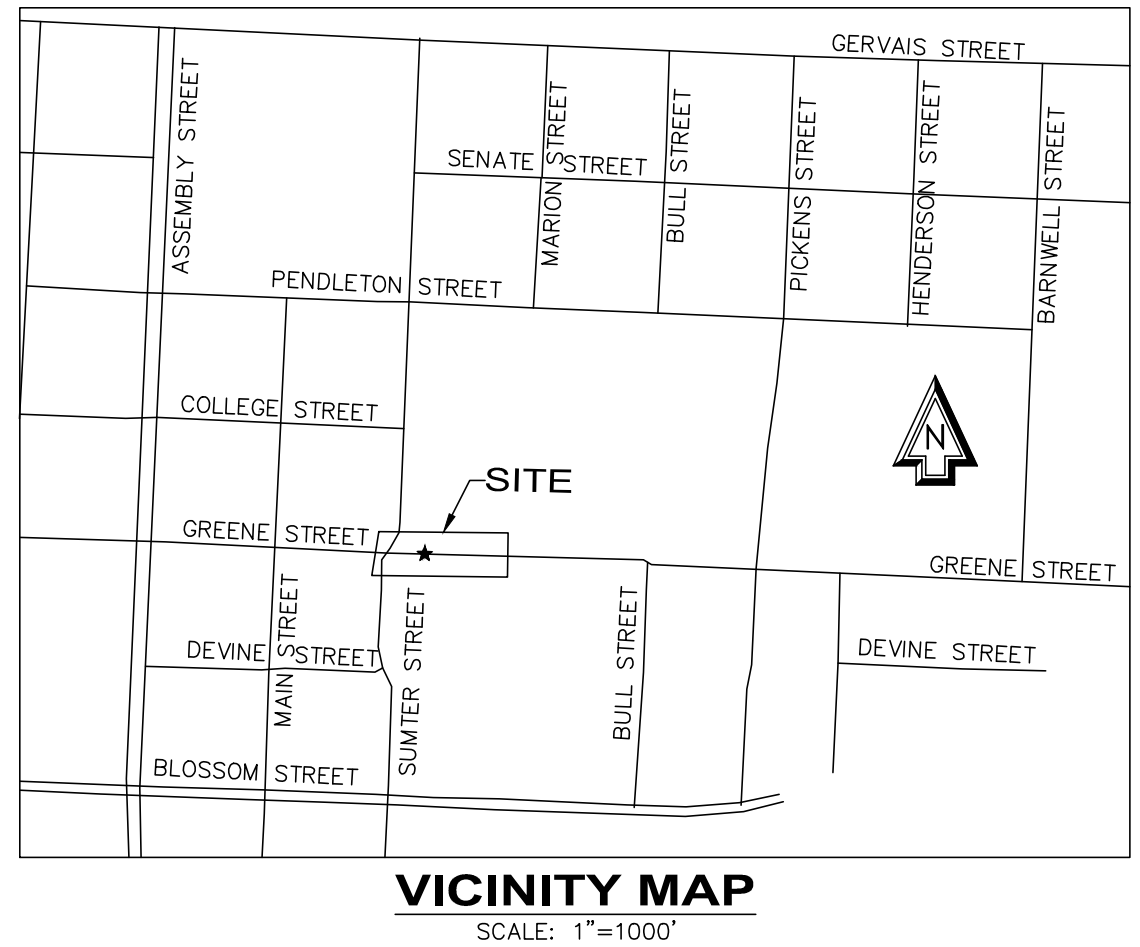


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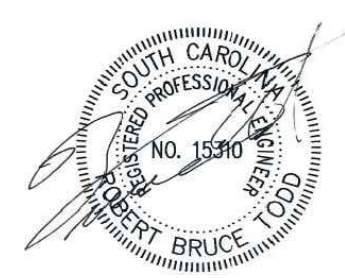
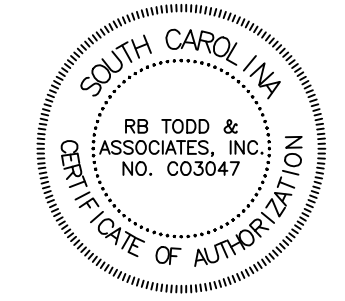
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NEW	EXISTING	DESCRIPTION
N/A		BENCHMARK/CONTROL POINT
N/A		BUILDING
N/A		LIGHT POLE
N/A		CURB AND GUTTER
N/A		CONCRETE SIDEWALK
N/A		BITUMINOUS SURFACE
N/A		CONTOUR
N/A		SPOT ELEVATION
N/A		WATER VALVE
N/A		FIRE HYDRANT
N/A		PAVEMENT BOLLARDS
N/A		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 C1.1.
 - 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.



Revisions	Date



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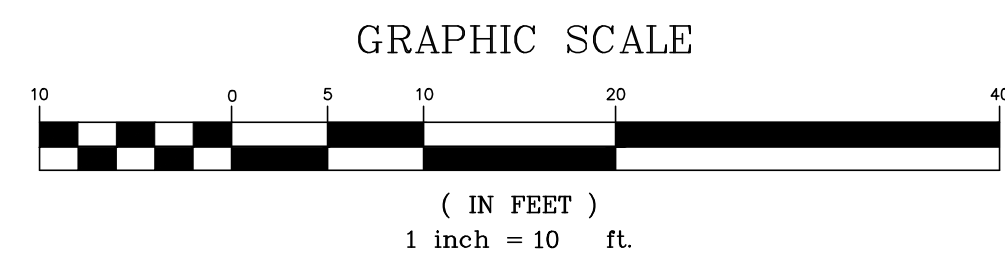
GREENE STREET PEDESTRIAN IMPROVEMENTS GRADING PLAN

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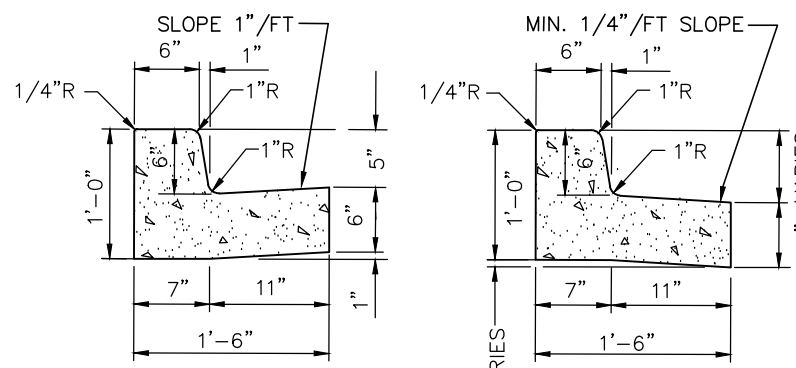
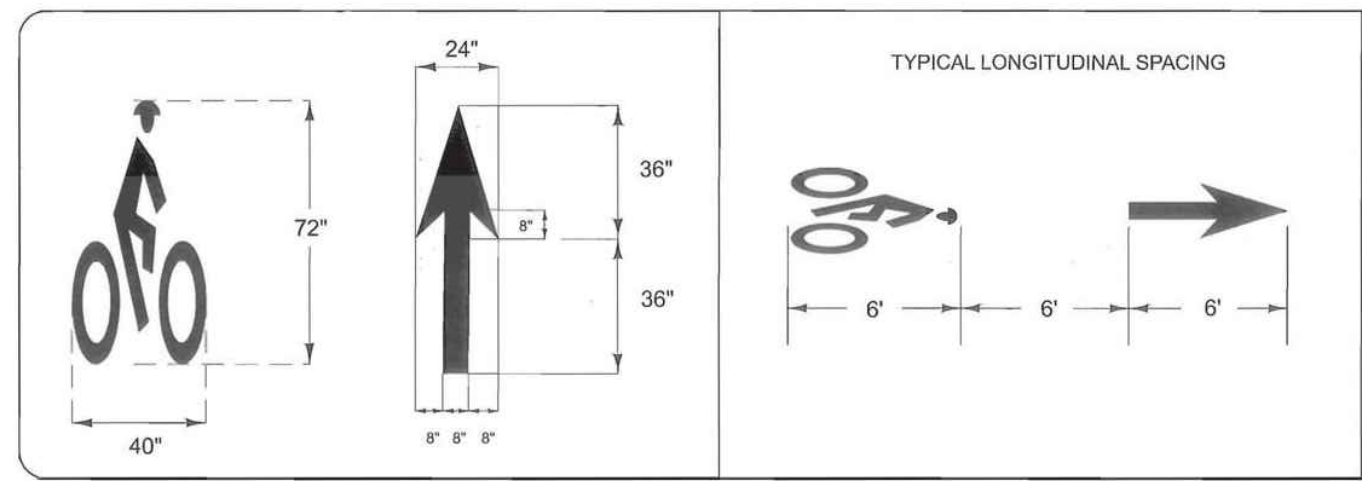
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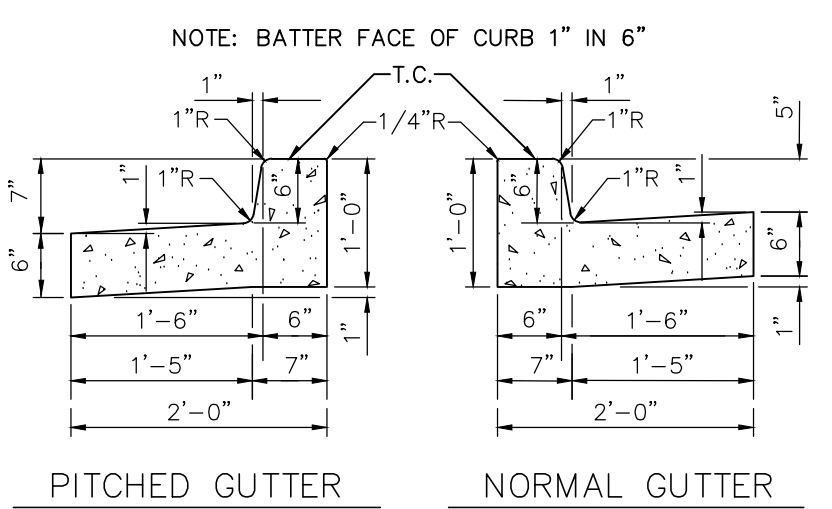
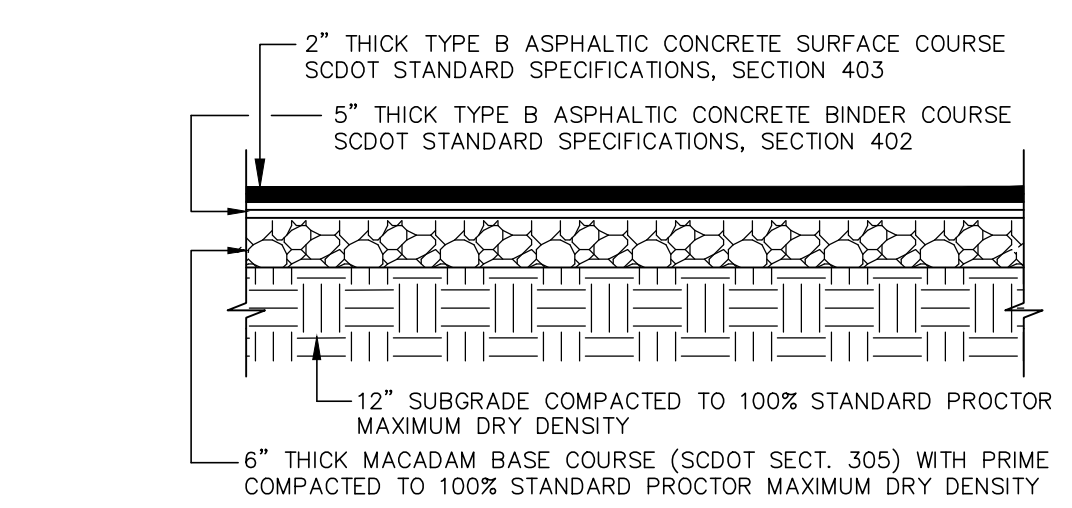
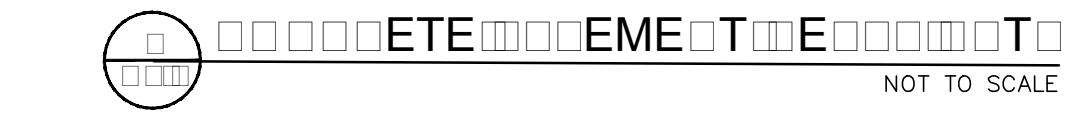
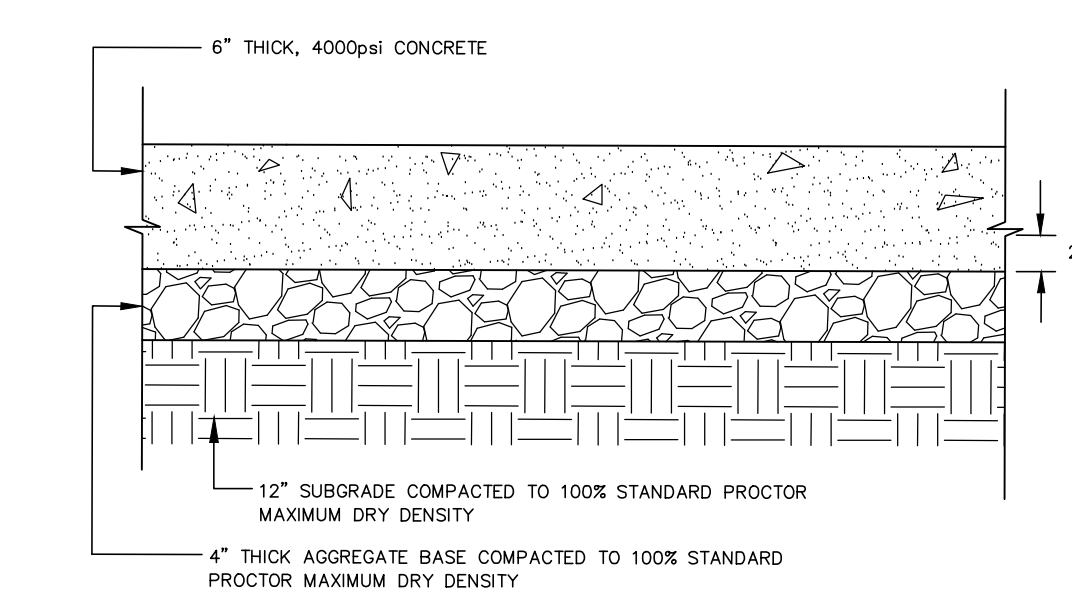
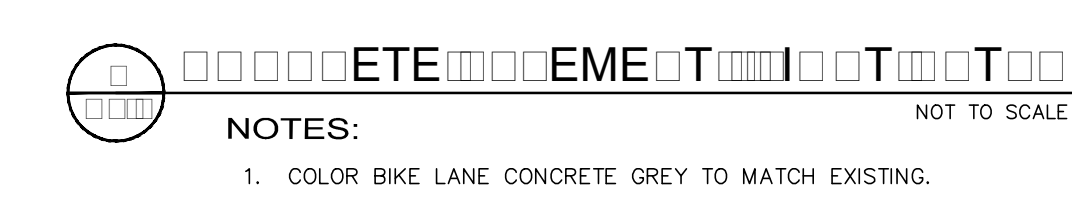
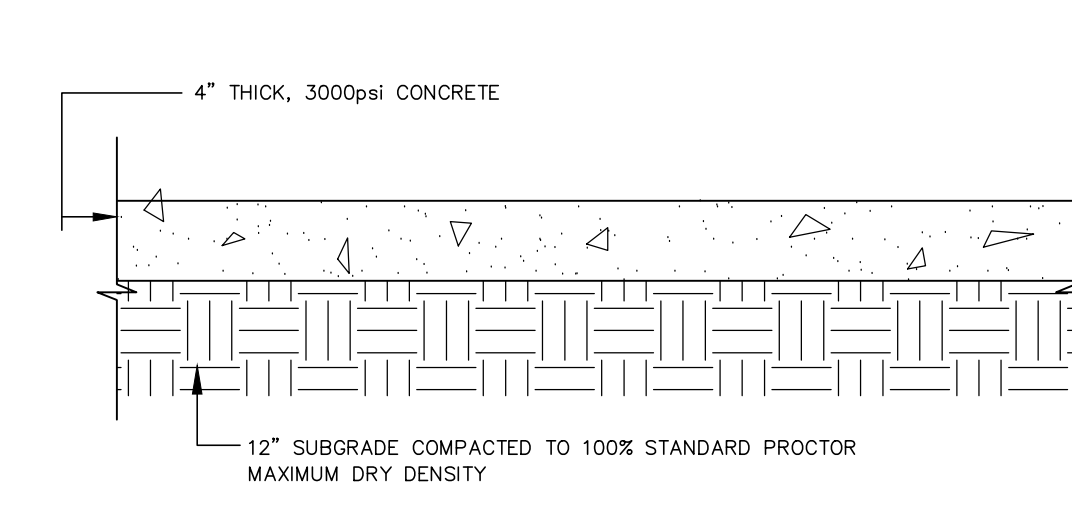
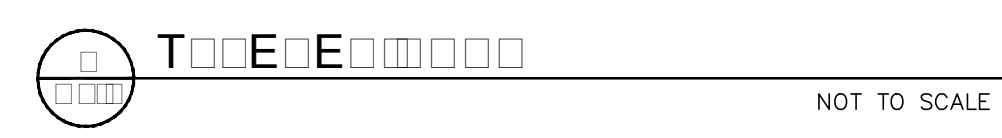
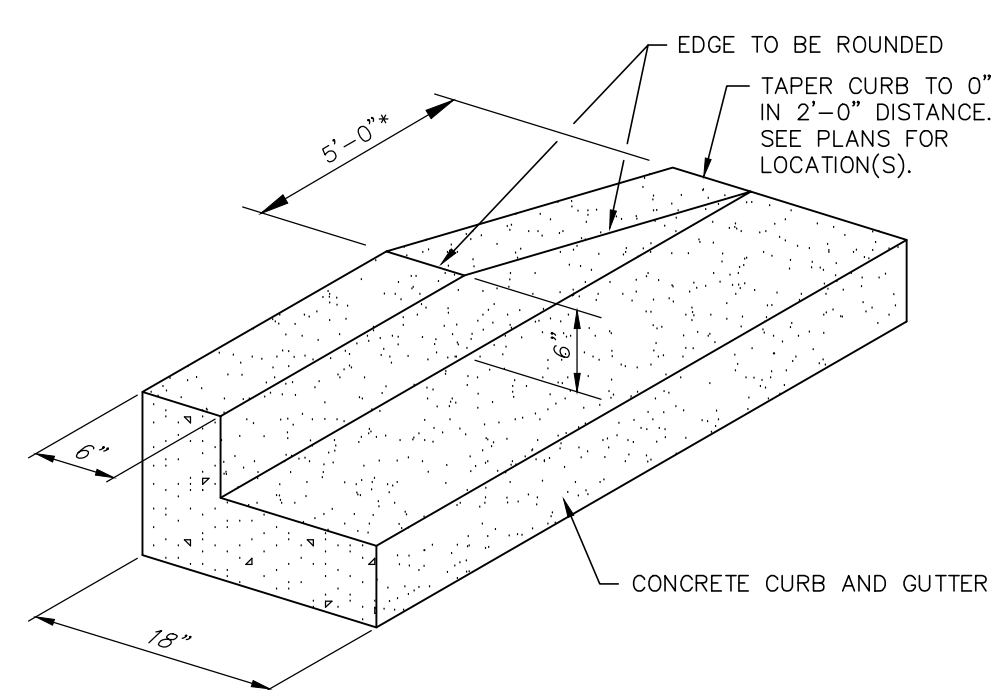
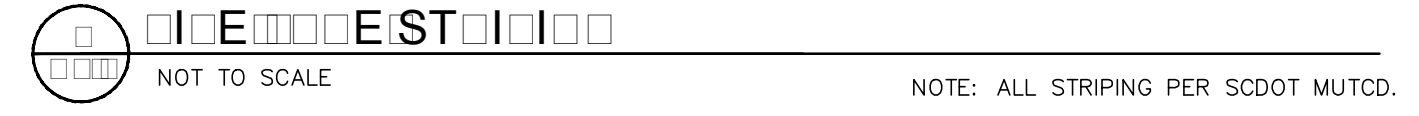
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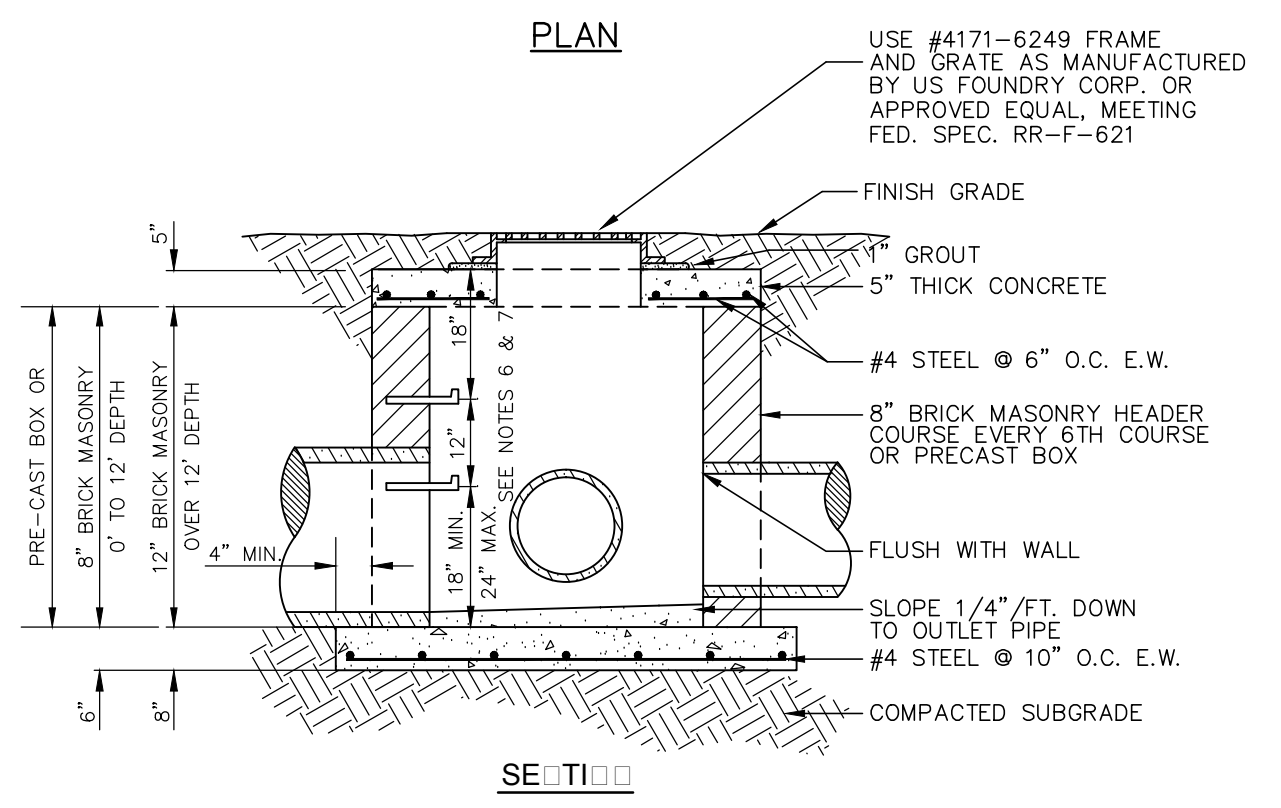
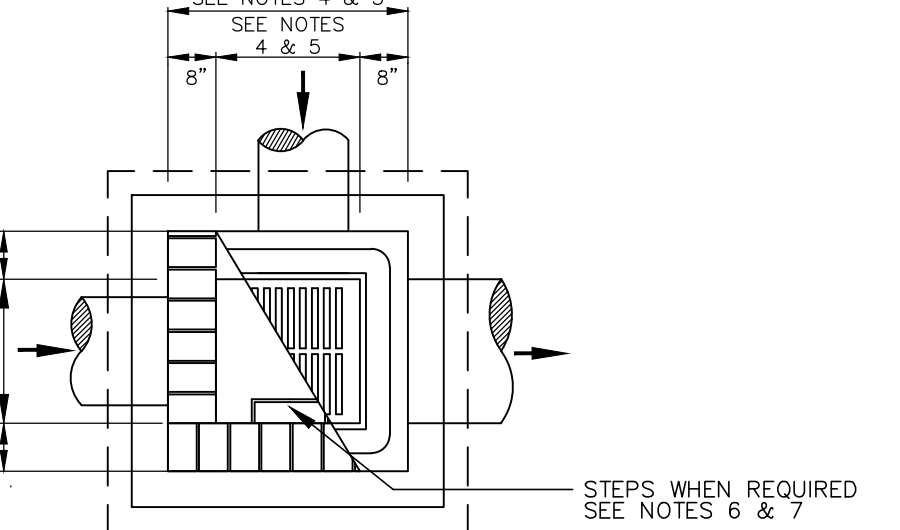
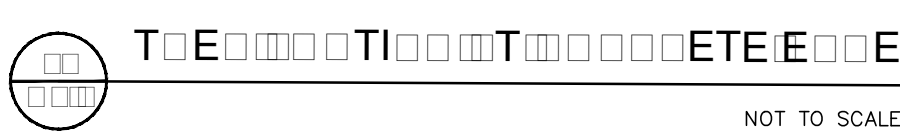
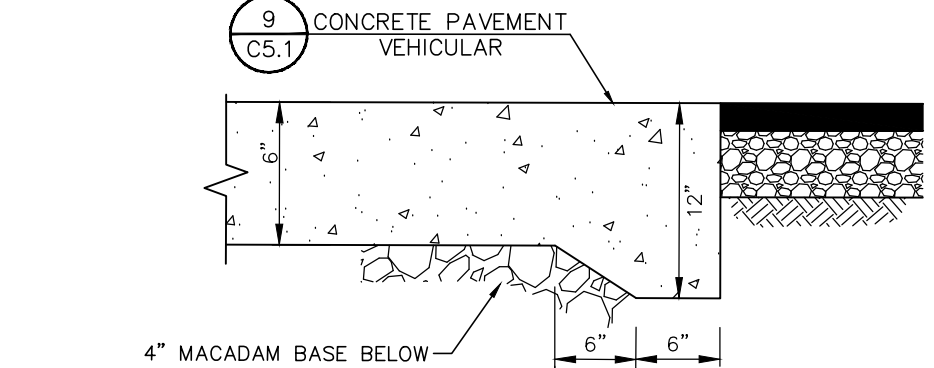
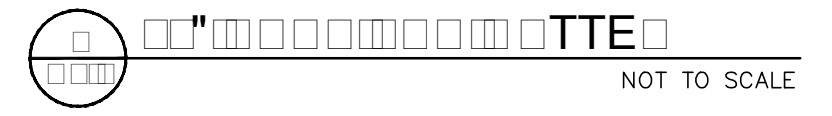
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Drawing No.	C3.1
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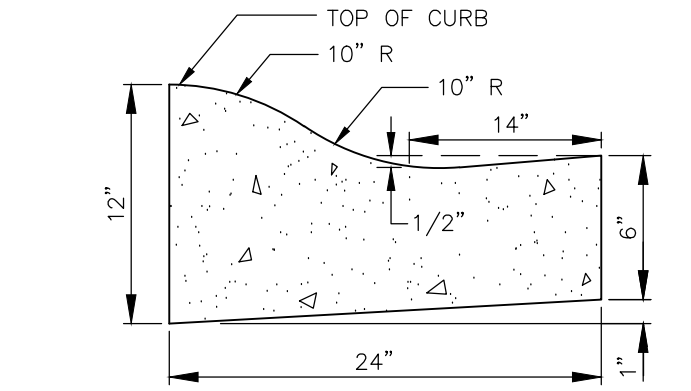
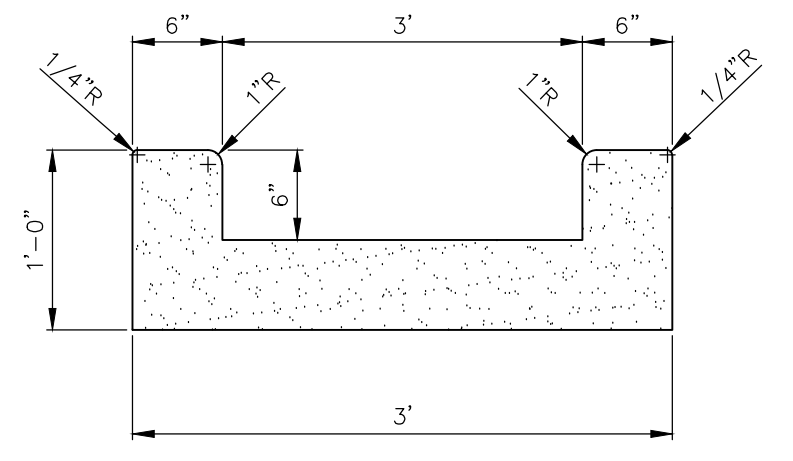
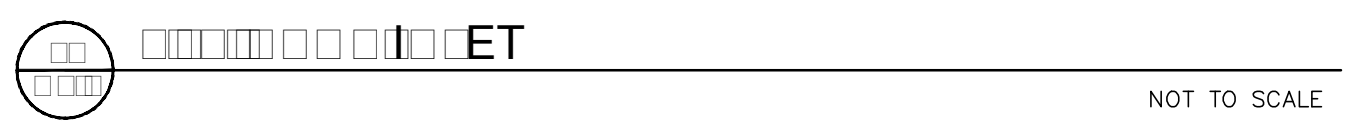
NOTES:
 1. CURB AND GUTTER TO BE CONSTRUCTED IN 10-FOOT LENGTHS.
 2. PROVIDE 1/2 INCH EXPANSION JOINT MATERIAL AT INTERVALS NOT TO EXCEED 100 FEET, AT THE ENDS AND MID-POINT OF RETURNS, AND AT ANY LOCATION WHERE THE NEW CURB AND GUTTER ABUTS OTHER CONCRETE STRUCTURES.
 3. PROVIDE A 5' LONG TRANSITION BETWEEN NORMAL GUTTER AND PITCHED GUTTER UNLESS OTHERWISE INDICATED ON PLANS.



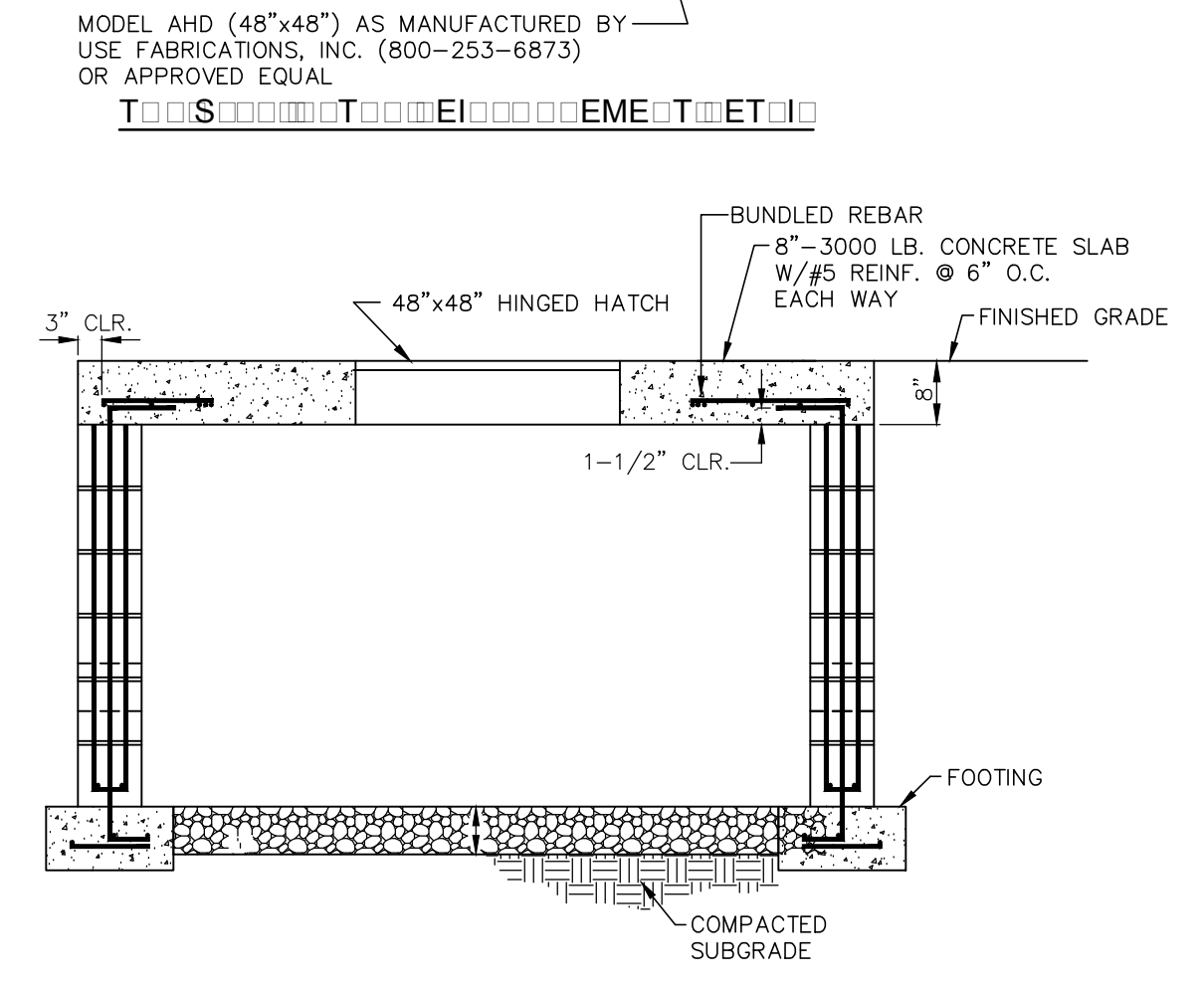
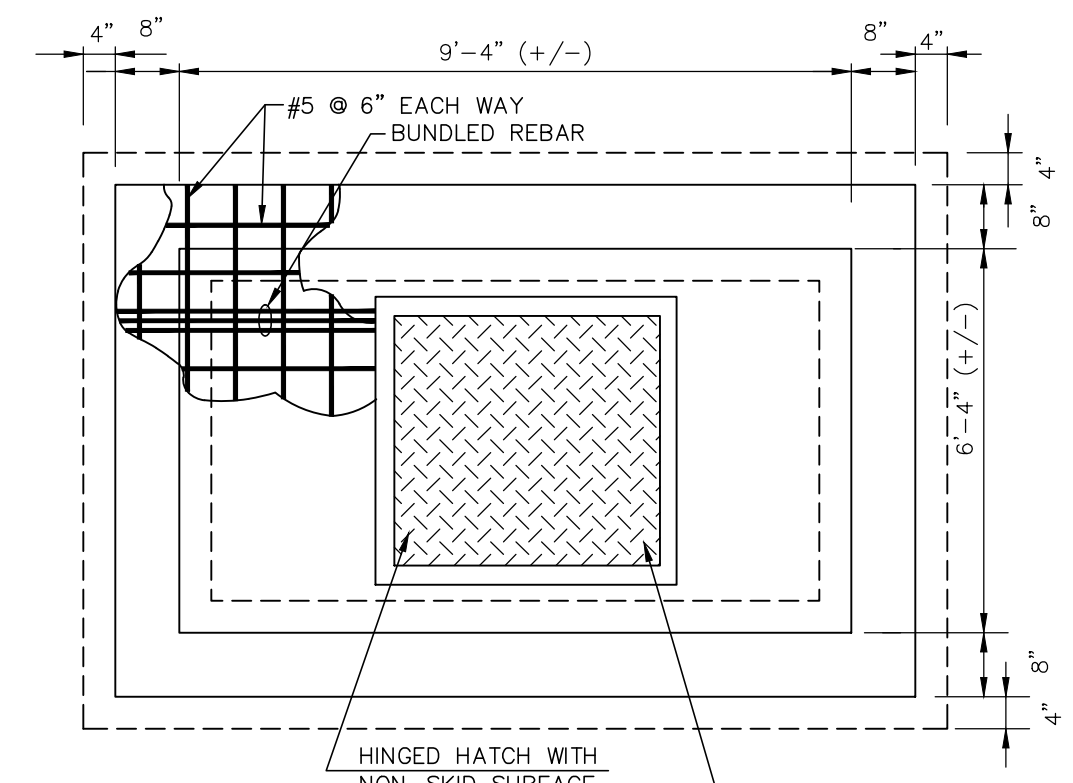
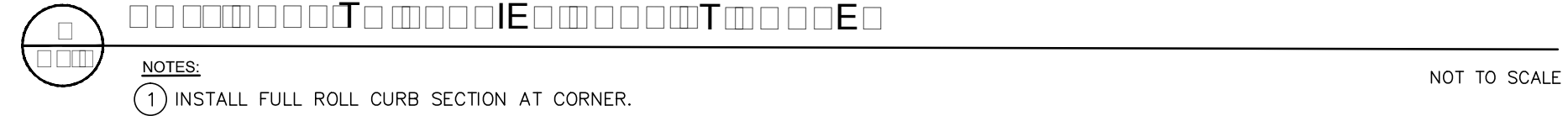
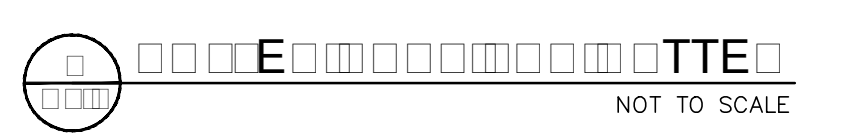
NOTES:
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 2. 1/2 INCH EXPANSION JOINT SHALL BE PROVIDED AT INTERVALS NOT TO EXCEED 100 FEET, AT THE ENDS AND MID-POINT OF RETURNS, AND AT ANY POINT WHERE THE NEW CURB AND GUTTER ABUTS OTHER CONCRETE STRUCTURES.
 3. 5-FOOT LONG TRANSITIONS SHALL BE PROVIDED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



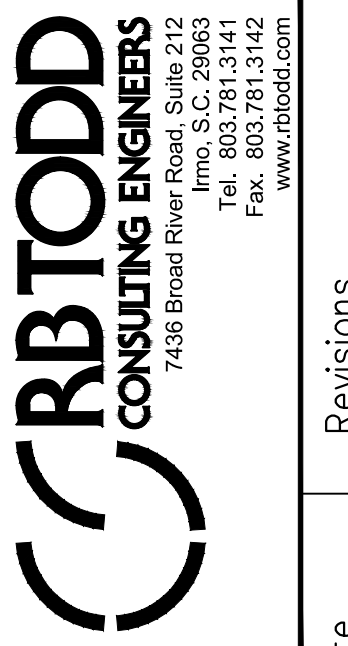
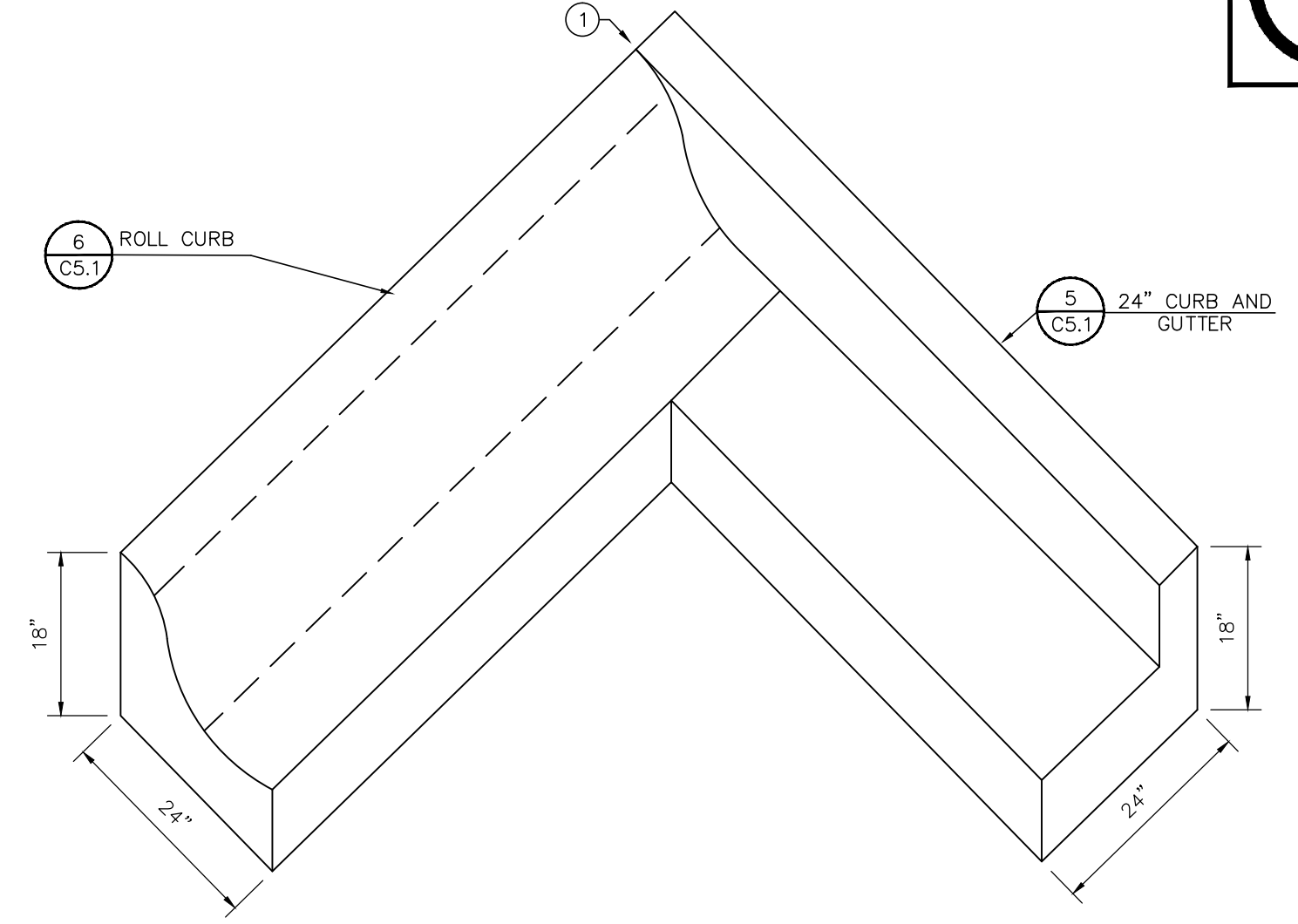
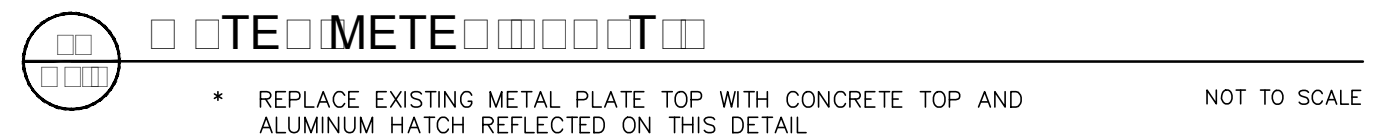
NOTES:
 1. ALL CONCRETE SHALL BE 3,000 PSI.
 2. ENDS OF ALL PIPES SHALL BE FLUSH WITH INSIDE WALL.
 3. ALL STEEL BARS SHALL BE PLACED 1-1/2" CLEAR FROM BOTTOM AND SIDES OF SLAB.
 4. FOR 15" - 24" I.D. PIPES USE 3'-0" x 3'-0" BOX.
 5. FOR PIPES OVER 24" I.D. BOX INSIDE DIMENSIONS SHALL BE PIPE O.D. + 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.



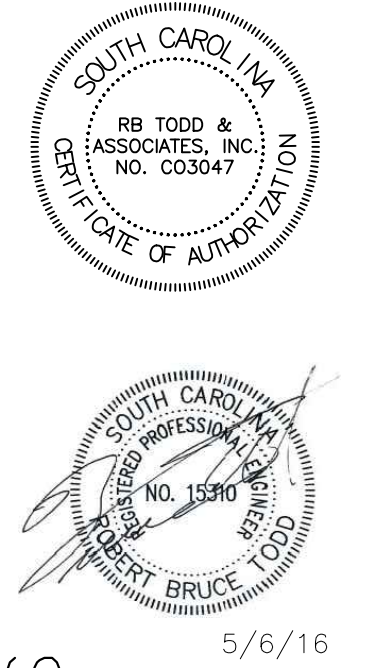
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NOTES:
 1. THE BOX COVER SHALL BE FLUSH WITH THE SURROUNDING GROUND SURFACE.



Date	Revisions



5/6/16

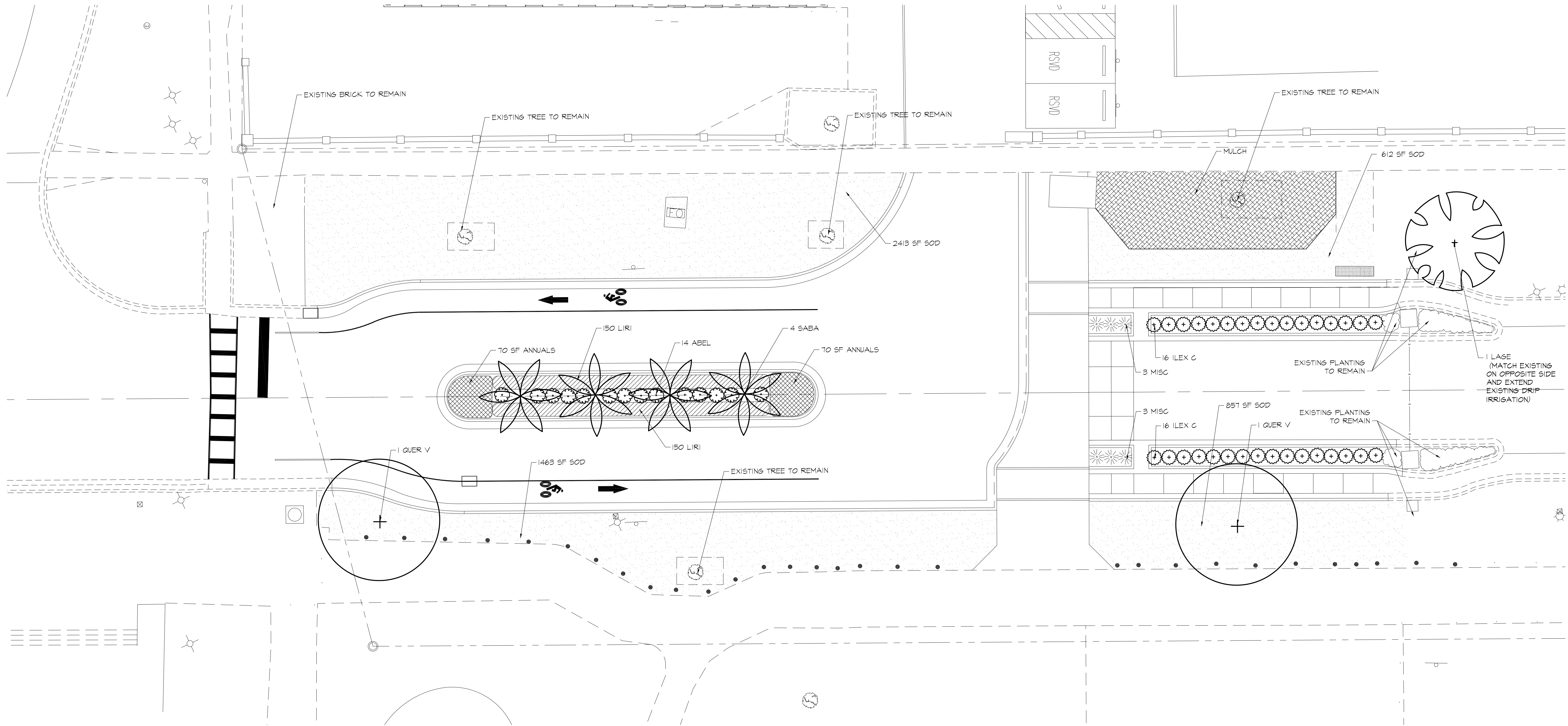
GREENE STREET PEDESTRIAN IMPROVEMENTS
 DETAILS

GRIMBALL & ASSOCIATES
 COTTERILL
 LANDSCAPE ARCHITECTS & LAND PLANNERS
 600 BELTLINE BOULEVARD COLUMBIA, SC 29205 (803)738-9255

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Checked by:	RBT
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Mar 23, 2017 10:25am C:\Users\Susan\Documents\Work\Greene St. Pedestrian\CD Base.dwg



BASE BID

**FINISH GRADE WITH 1" HARDWOOD MULCH SPREAD
IN ALL PLANTING AND TURF AREAS**

ALTERNATE #2

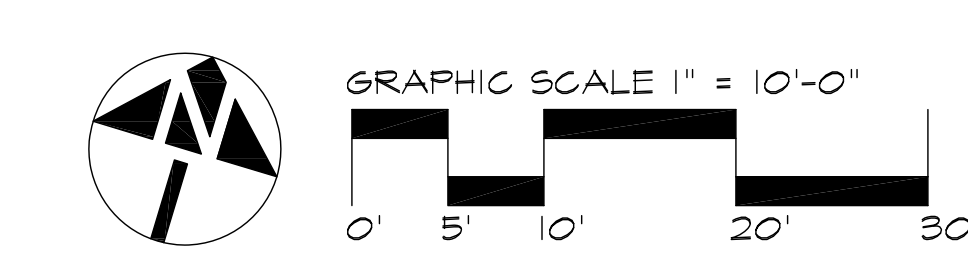
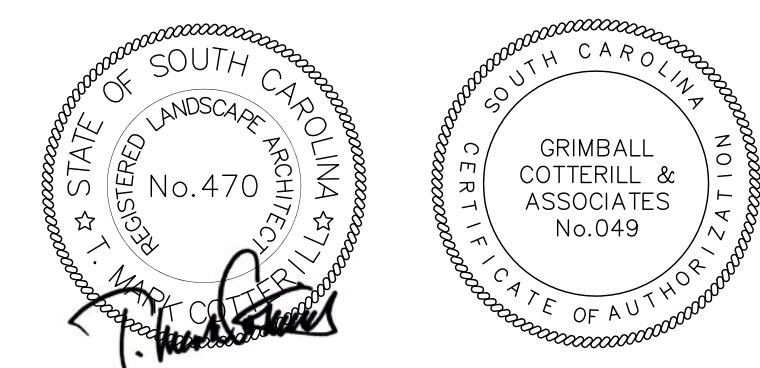
ALL OTHER PLANTING

PLANT LIST

ABBR.	BOTANICAL NAME	COMMON NAME	MINIMUM				COMMENTS	QTY.
			CALIFER	SPREAD	HEIGHT	BALL DIA.		
QUER V	QUERCUS VIRGINIANA	LIVE OAK	4"	6'	14'-16'	32"	1	
SABA	SABAL PALMETTO	PALMETTO			10'-12"		1	SPECIMEN
LAGE	LAGERSTROEMIA (MATCH EXISTING)	CRAPEMYRTLE (MATCH EXISTING)	1 1/2" EA.	4'-6'	10'-12"	28"	3 MIN	(MATCH EXISTING)
ABEL S	ABELIA X 'ROSE CREEK'	'ROSE CREEK' ABELIA		15"	12"	3 GAL.	3-5	PLANT 3' O.C.
ILEX C	ILEX CORNUTA 'GARISSA'	GARISSA HOLLY		15"-18"	12"	3 GAL.	3-5	PLANT 3' O.C.
MISC	MISCANTHUS SINENSIS 'LITTLE KITTEN'	'LITTLE KITTEN' MAIDEN GRASS		18"	18"	3 GAL.	3-5	PLANT 3' O.C.
ANNUALS	ANNUAL FLOWERS	(VARIETY TO BE SELECTED)						140 SF
LIRI	LIRIOPE MUSCARI 'BIG BLUE'	'BIG BLUE' LIRIOPE				PINT		300
SOD	EREMOCHLOA OPHIUROIDES	CENTPEDE GRASS						5345 SF

GENERAL NOTES

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- 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.



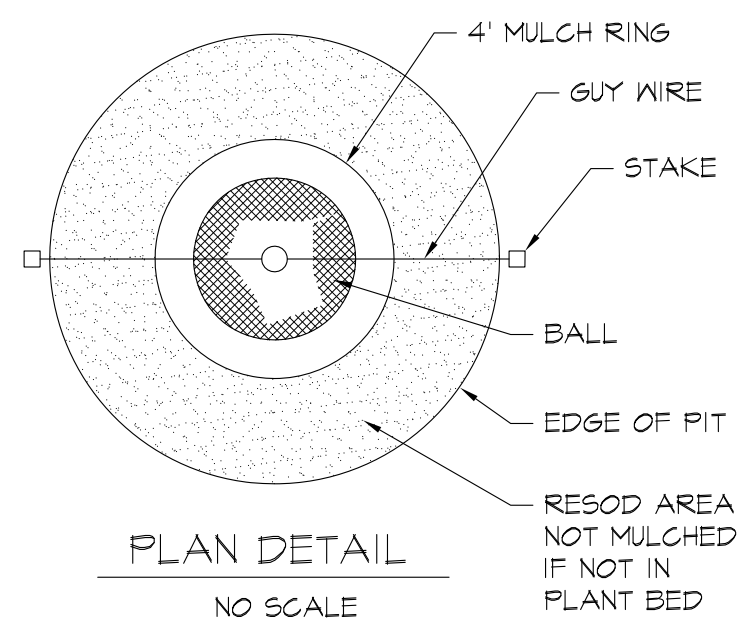
Date	Revisions

**GRIMBALL
& ASSOCIATES
COTTERILL**
GREENE STREET PEDESTRIAN CORRIDOR
PLANTING PLAN
(ALTERNATE #2)

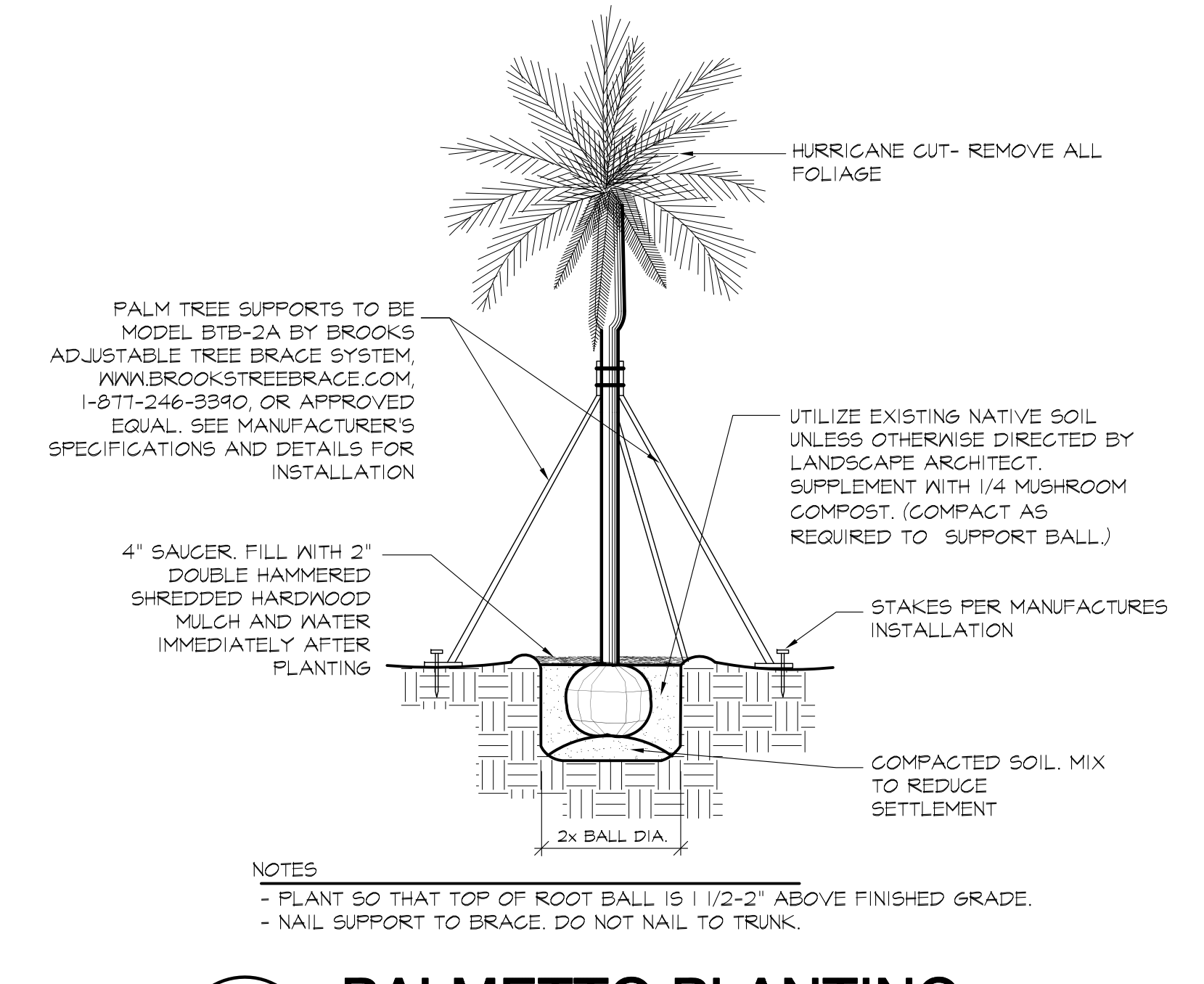
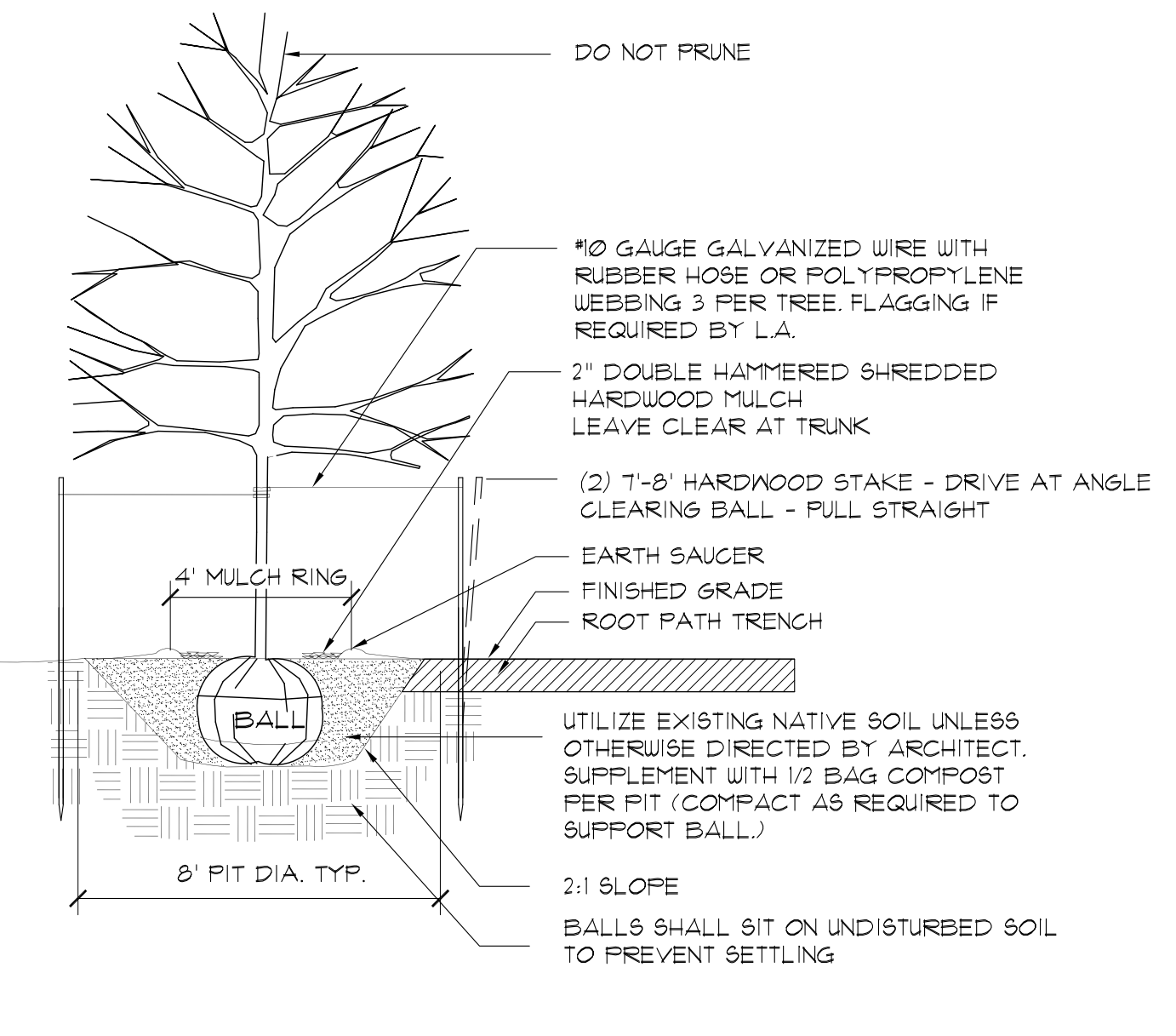
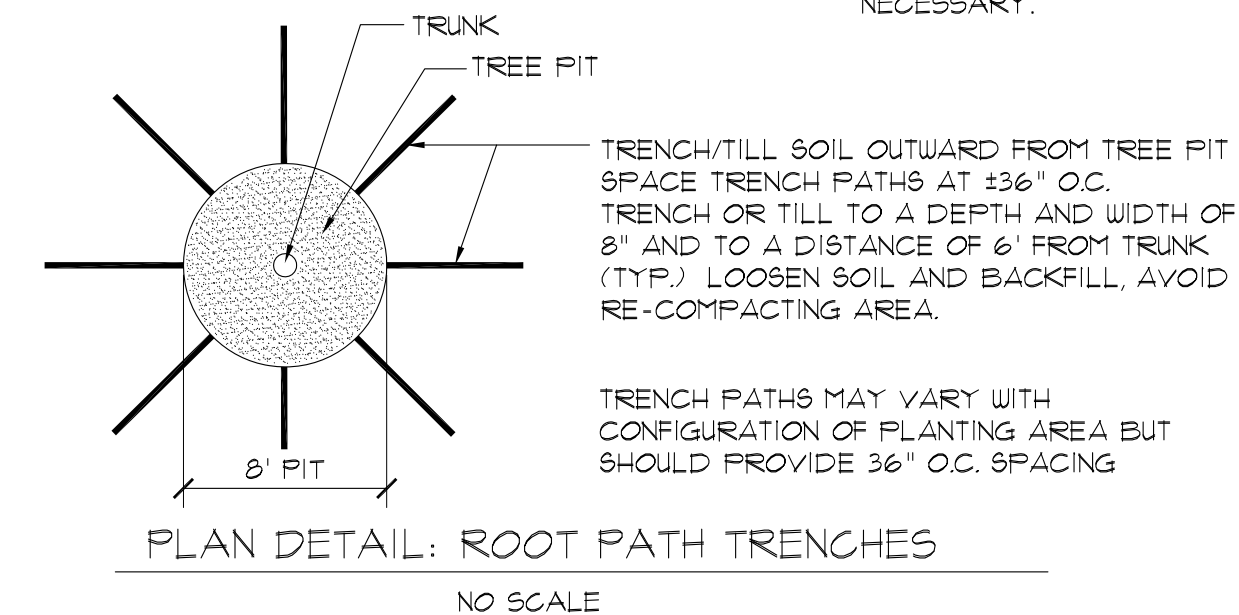
LANDSCAPE ARCHITECTS & LAND PLANNERS 600 BELTLINE BOULEVARD COLUMBIA, SC 29205 (803)738-9525

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Sheet No.	OF



- 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.



- ### 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 YEARS' 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 H/L-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, 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.

A TREE PLANTING AND STAKING

L-2 SECTION NOT TO SCALE

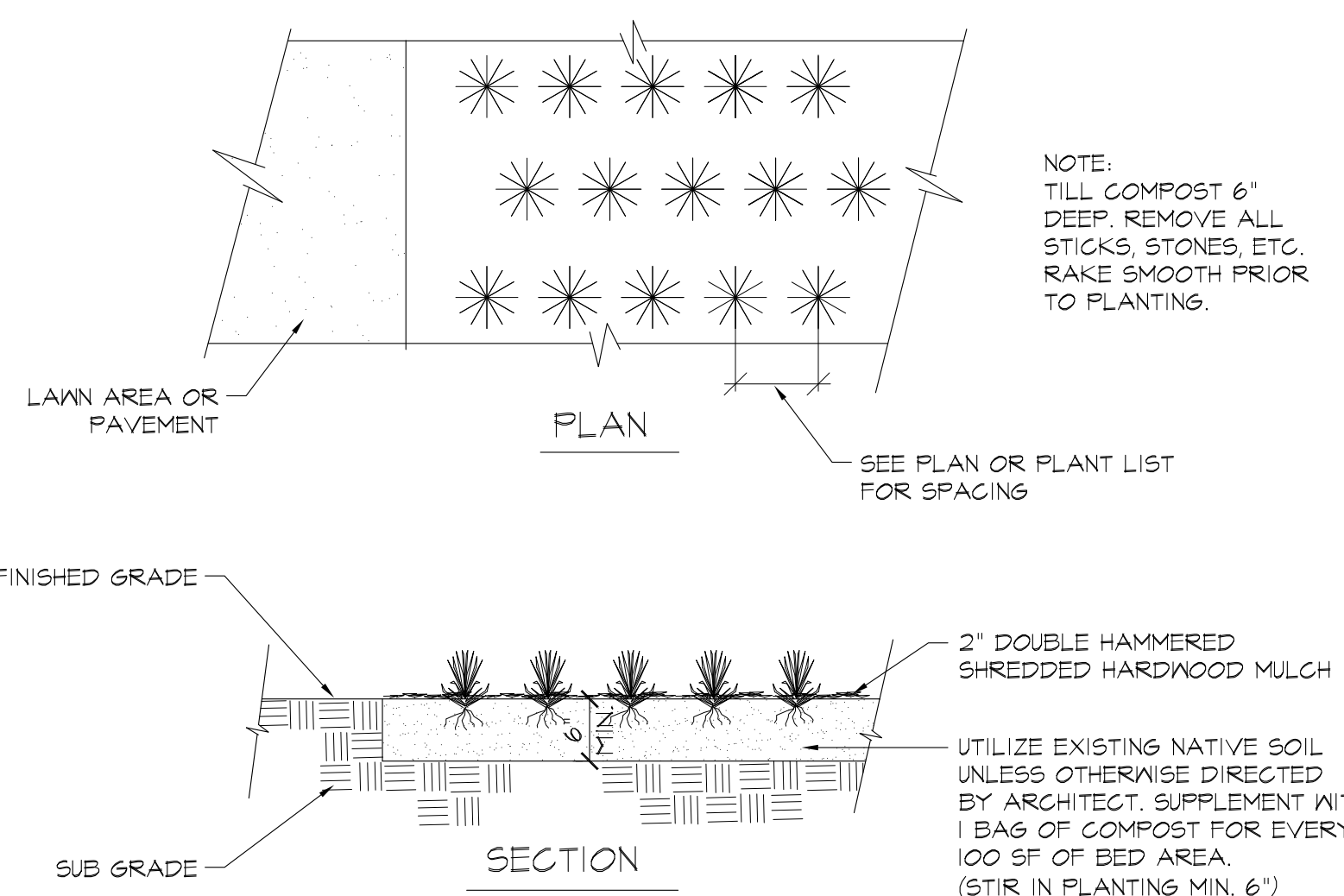
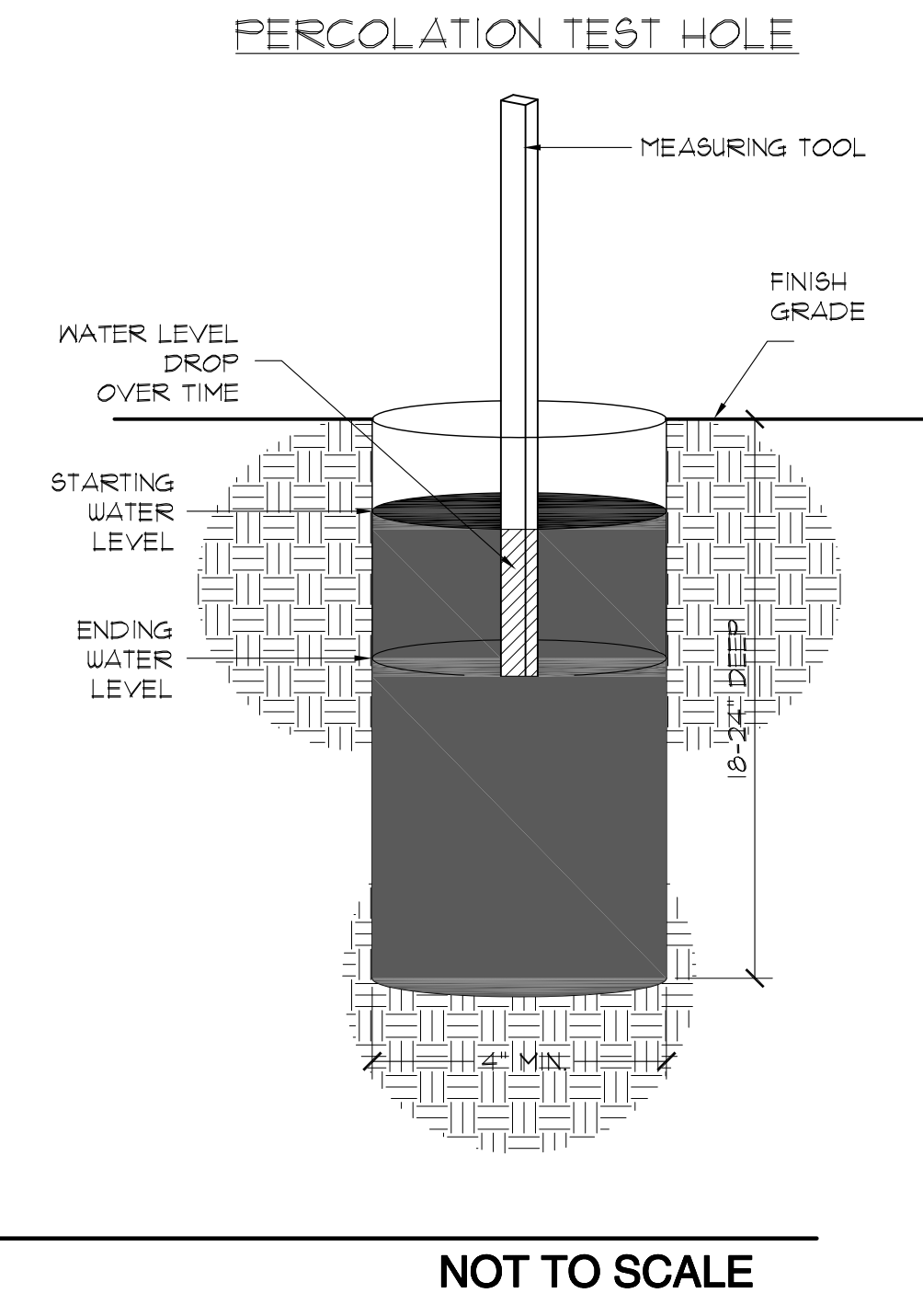
B PALMETTO PLANTING

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

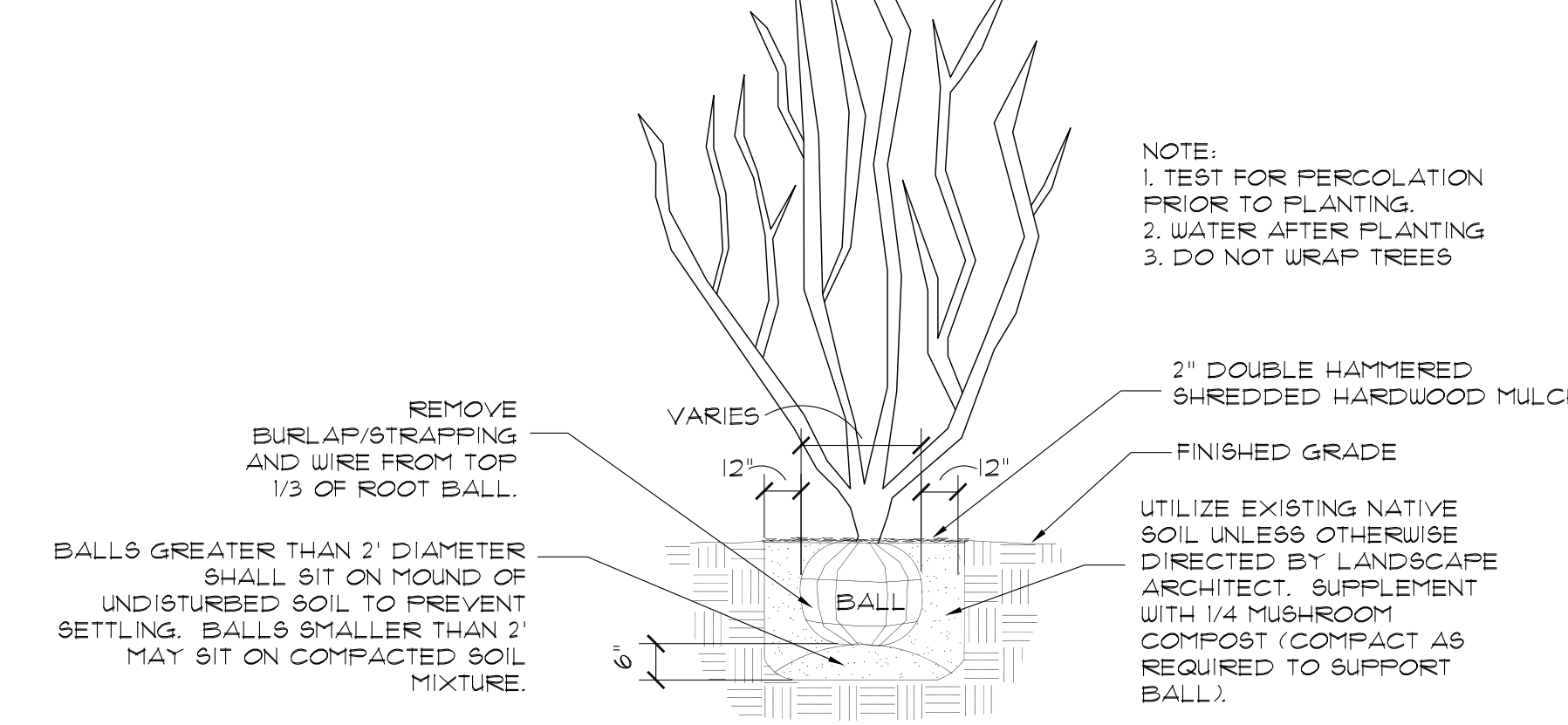
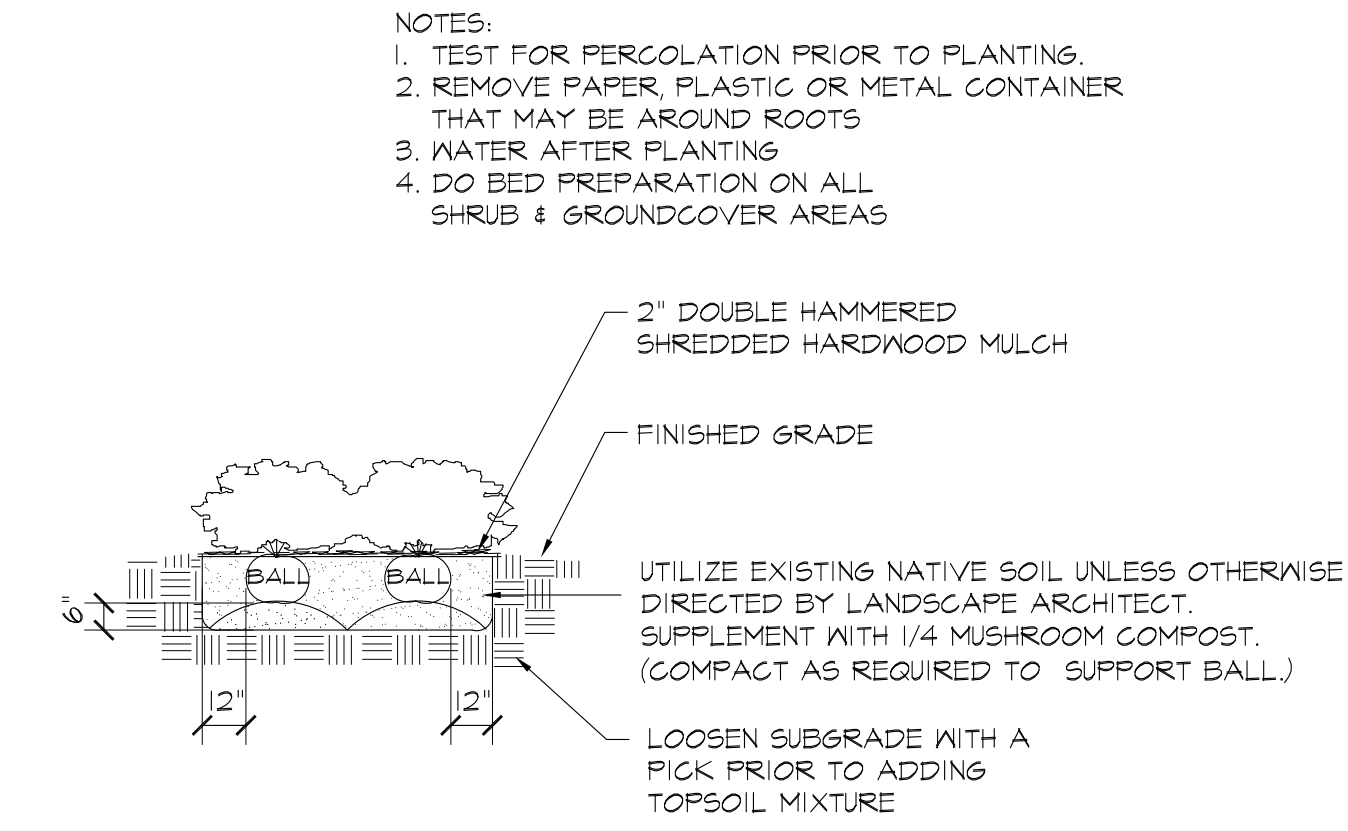


C TYPICAL GROUNDCOVER PLANTING

L-2 SECTION NOT TO SCALE

D PERCOLATION TEST

L-2 ISOMETRIC NOT TO SCALE



E SHRUB PLANTING

L-2 SECTION NOT TO SCALE

F CRAPE MYRTLE PLANTING

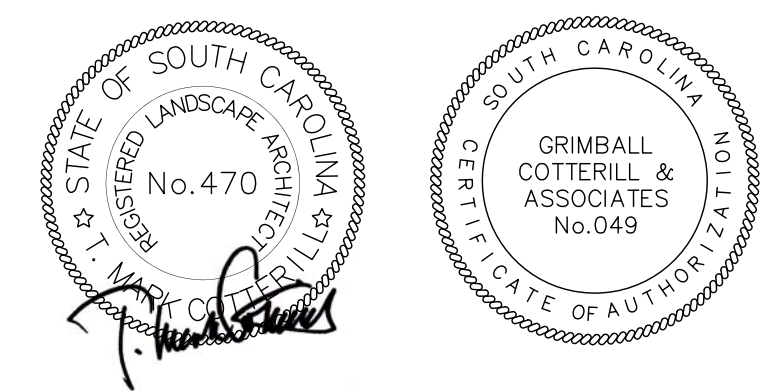
L-2 SECTION NOT TO SCALE

Date	Revisions

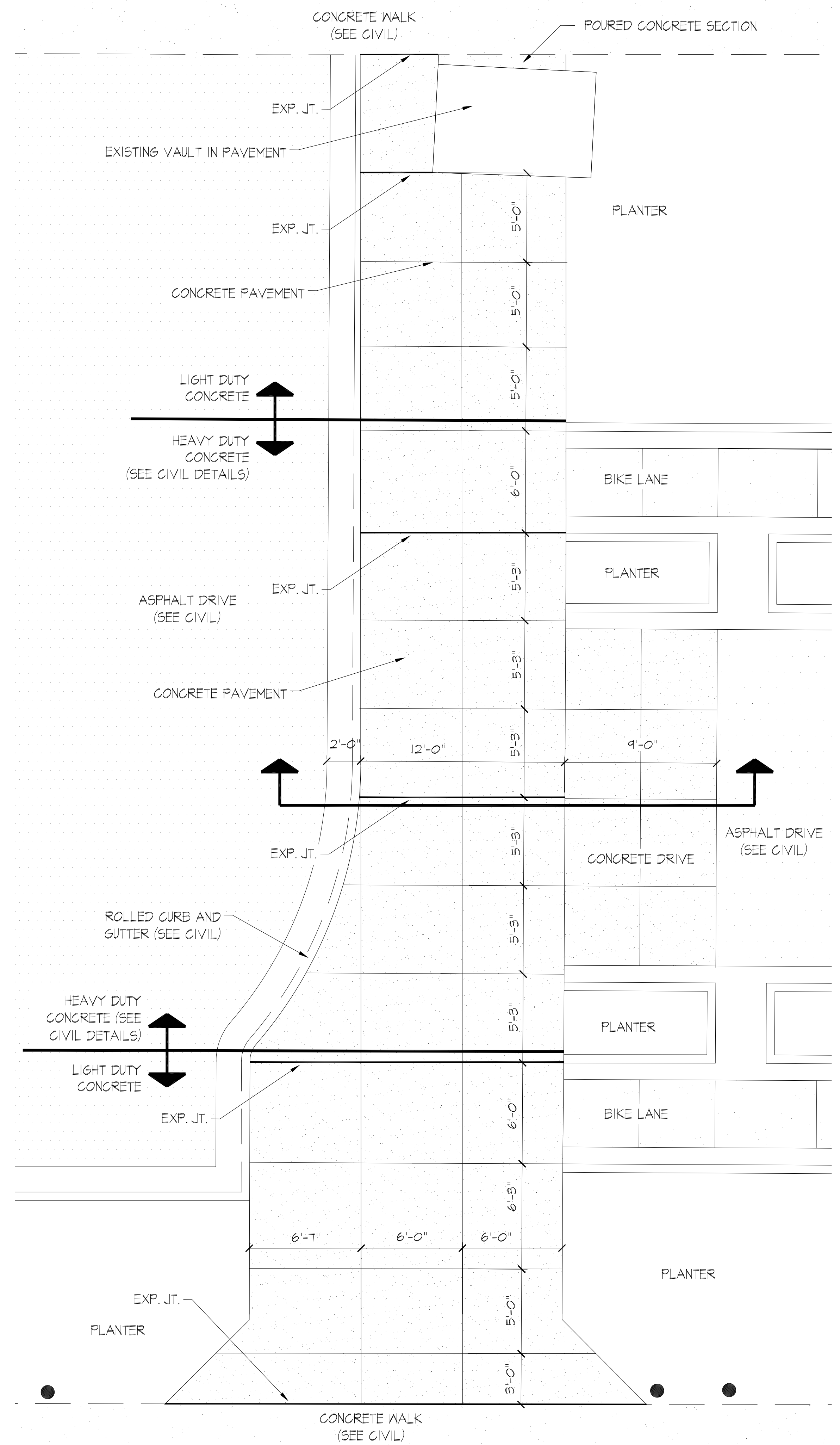
GRIMBALL GREENE STREET PEDESTRIAN CORRIDOR PLANTING DETAILS (ALTERNATE #2)

GRIMBALL & ASSOCIATES COTTERILL

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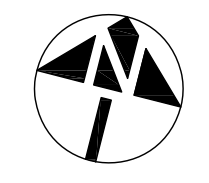


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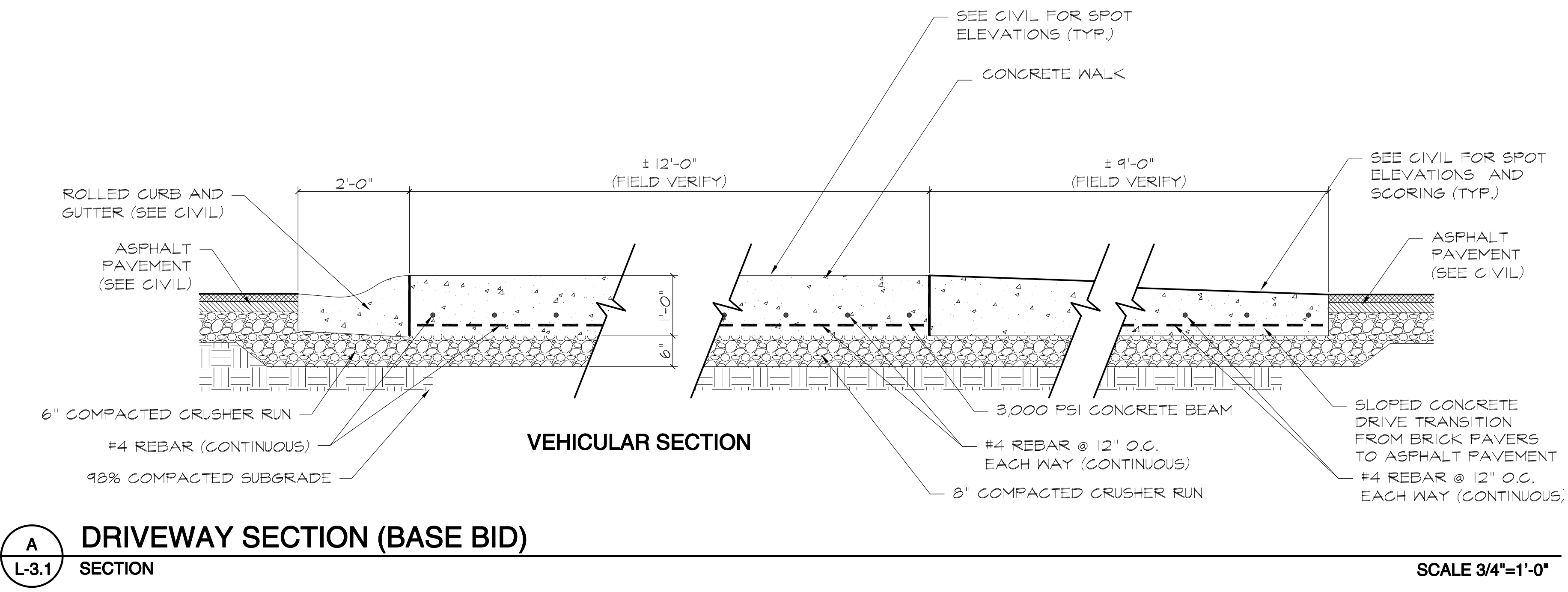
CONCRETE WALK LAYOUT PLAN - BASE BID
PLAN

SCALE 1/4"=1'-0"



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



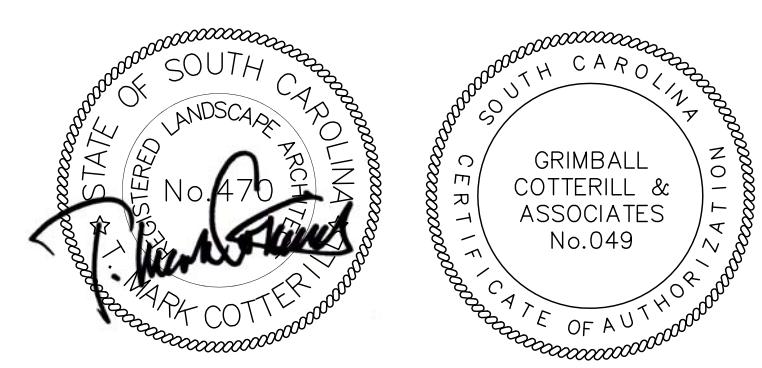
A
L-3.1 DRIVEWAY SECTION (BASE BID)
SECTION

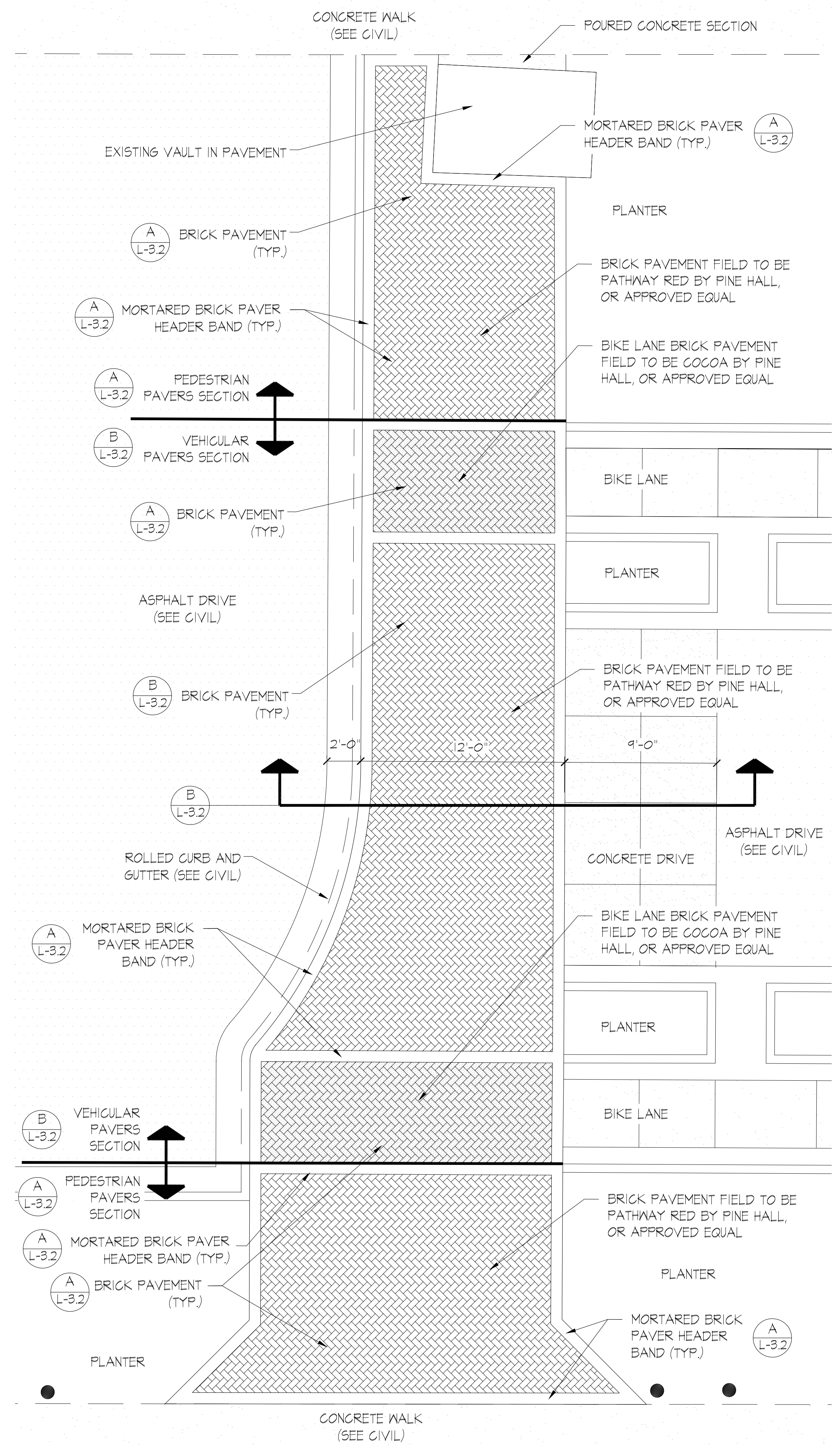
SCALE 3/4"=1'-0"

Date	Revisions

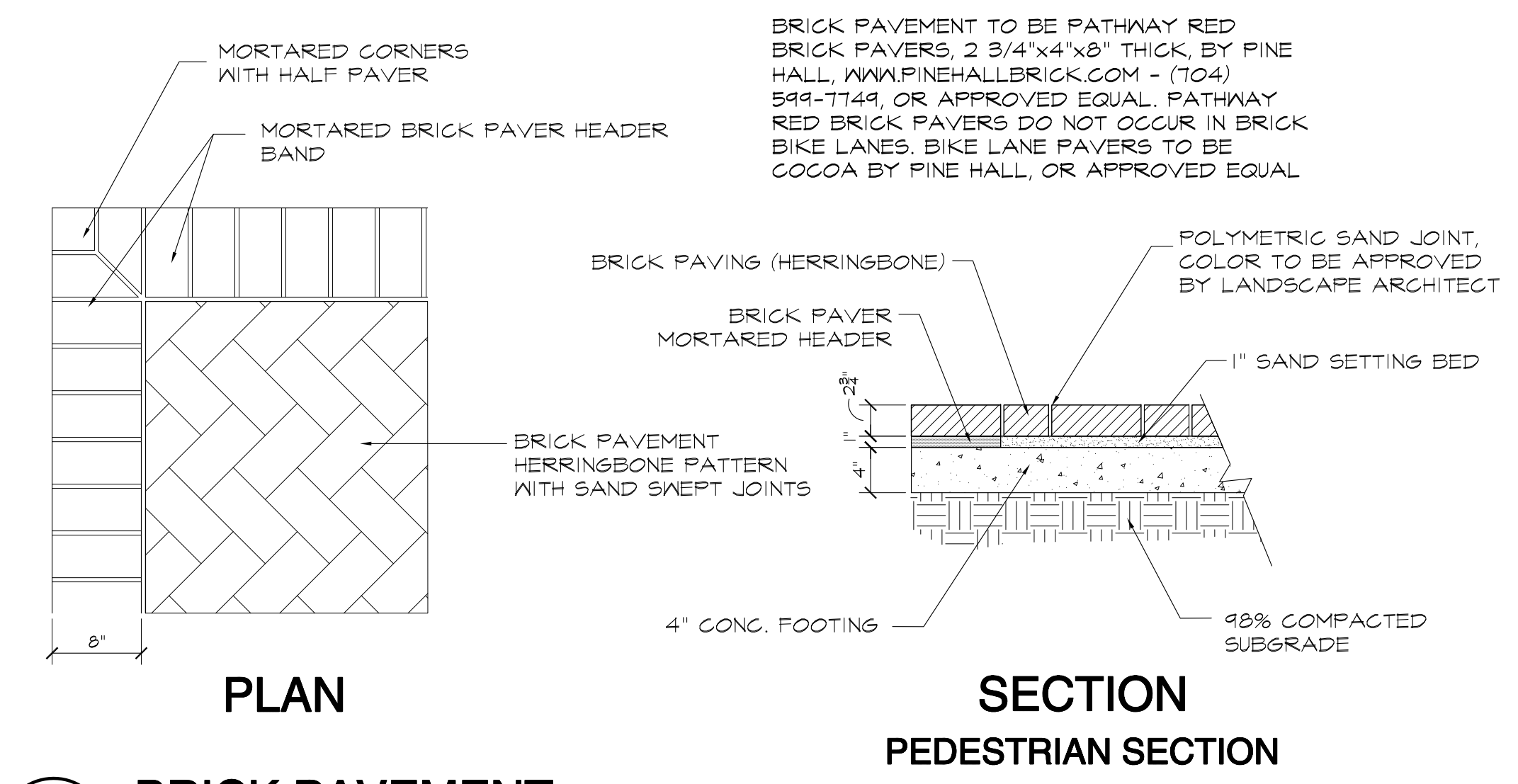
GRIMBALL & ASSOCIATES COTTERILL
 GREENE STREET PEDESTRIAN CORRIDOR
 SITE DETAILS
 (BASE BID)
 LANDSCAPE ARCHITECTS & LAND PLANNERS
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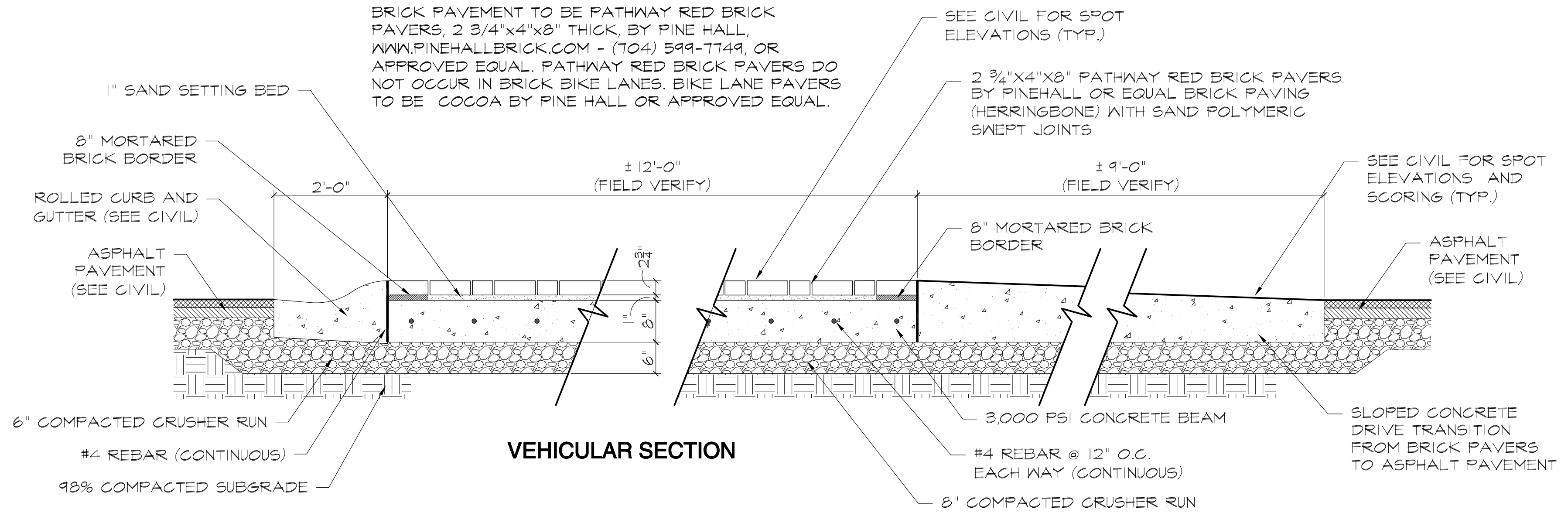




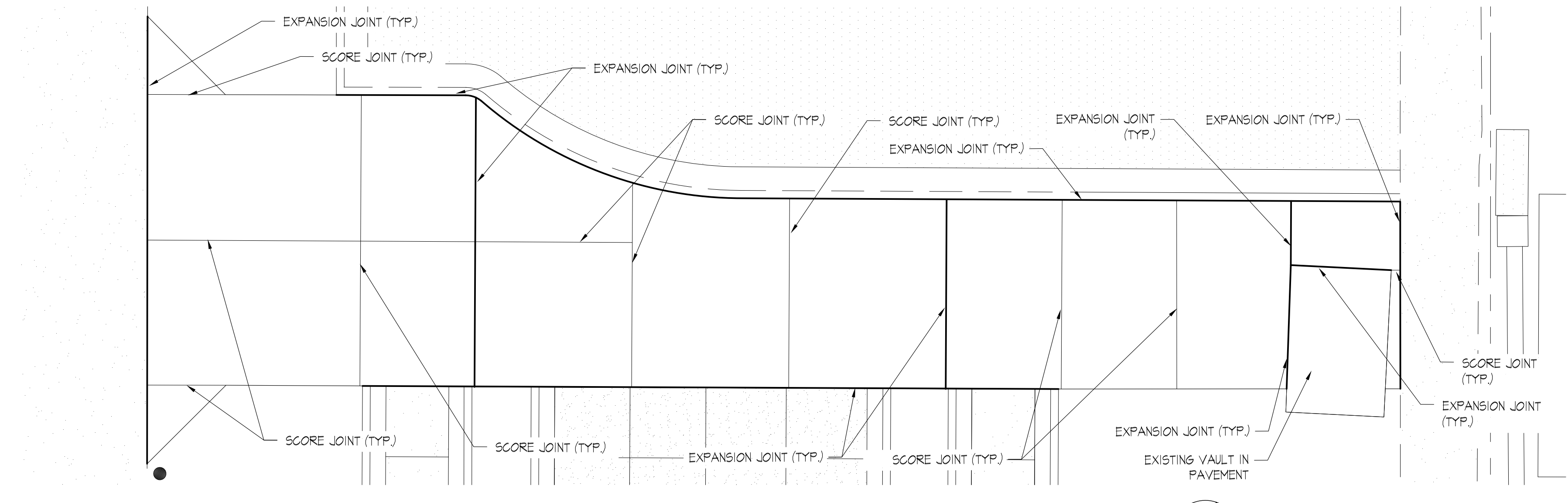
BRICK LAYOUT PLAN - ALTERNATE #1
PLAN
SCALE 1/4"=1'-0"



A L-3.2 BRICK PAVEMENT
PLAN / SECTION
SCALE 1"=1'-0"



B L-3.2 DRIVEWAY SECTION
SECTION
SCALE 3/4"=1'-0"



CONCRETE FOOTING UNDER BRICK PAVEMENT SCORING
PLAN
SCALE 3/16"=1'-0"

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Date	Revisions

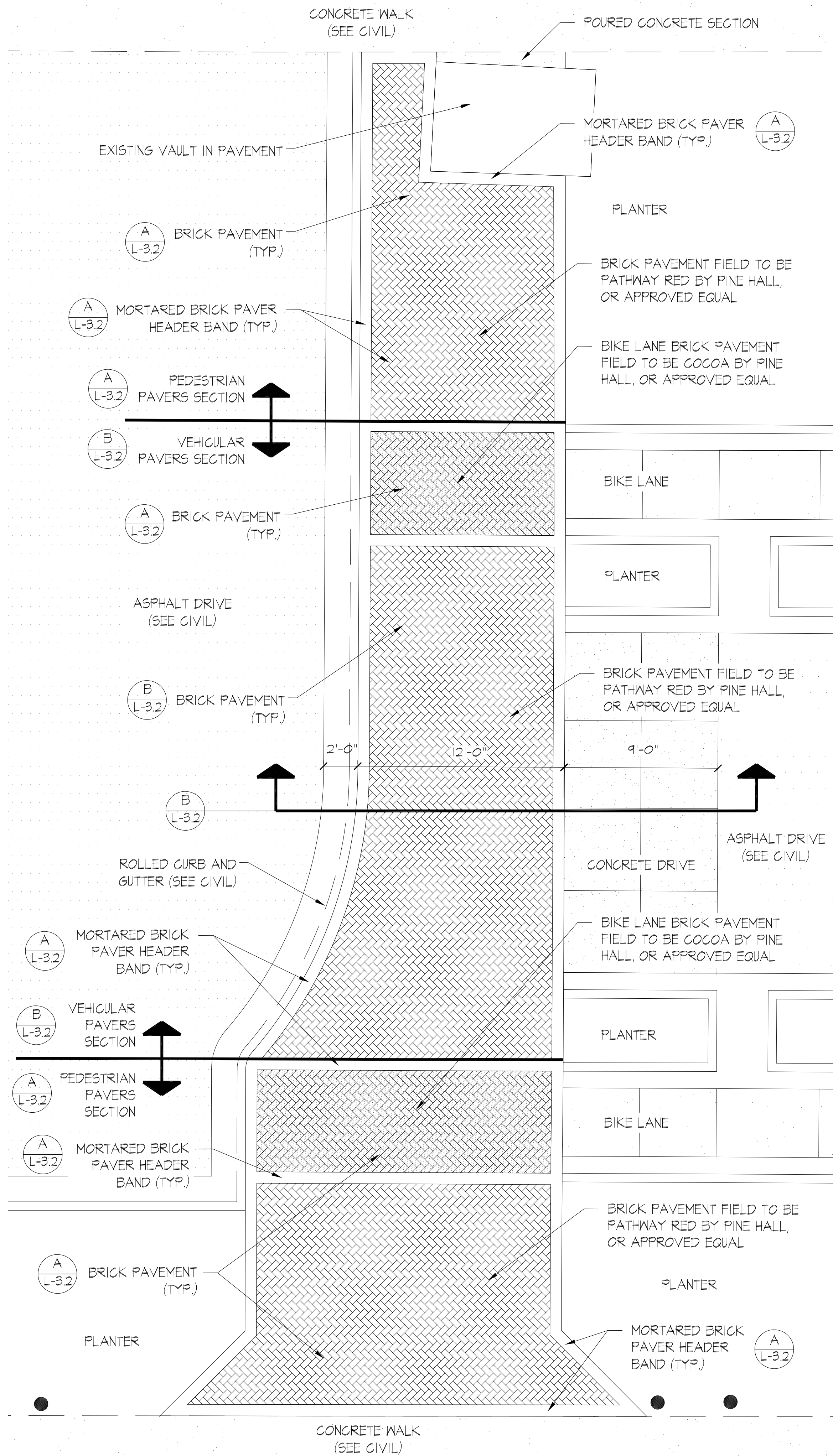
GRIMBALL & ASSOCIATES
COTTERILL
 GREENE STREET PEDESTRIAN CORRIDOR
 SITE DETAILS
 (BRICK PAVING ALTERNATE)

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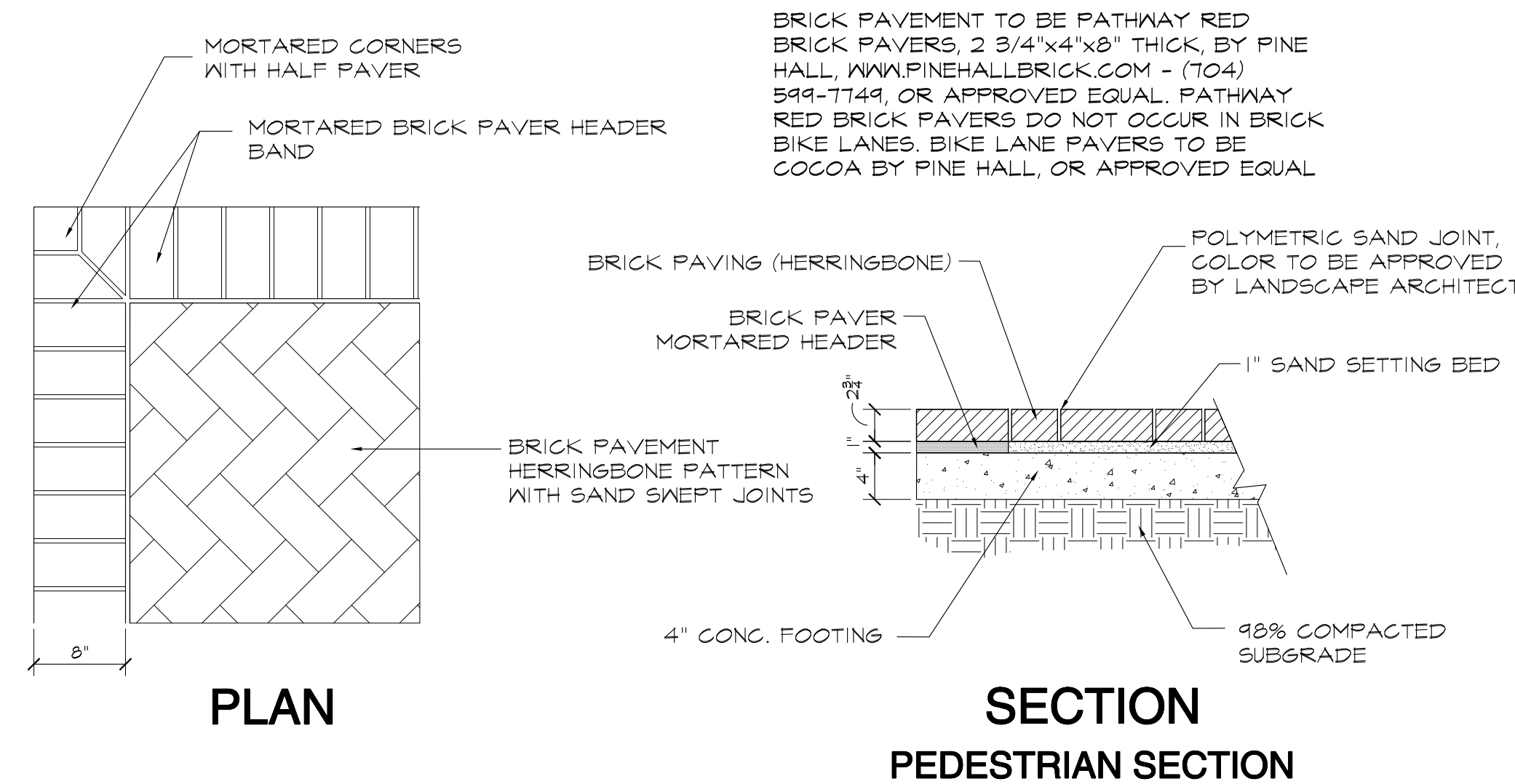


C:\USERS\SUSAN\DOCUMENTS\WORK\GREENE ST. PEDESTRIAN\DETAILS - BRICK.DWG - 4/27/2017



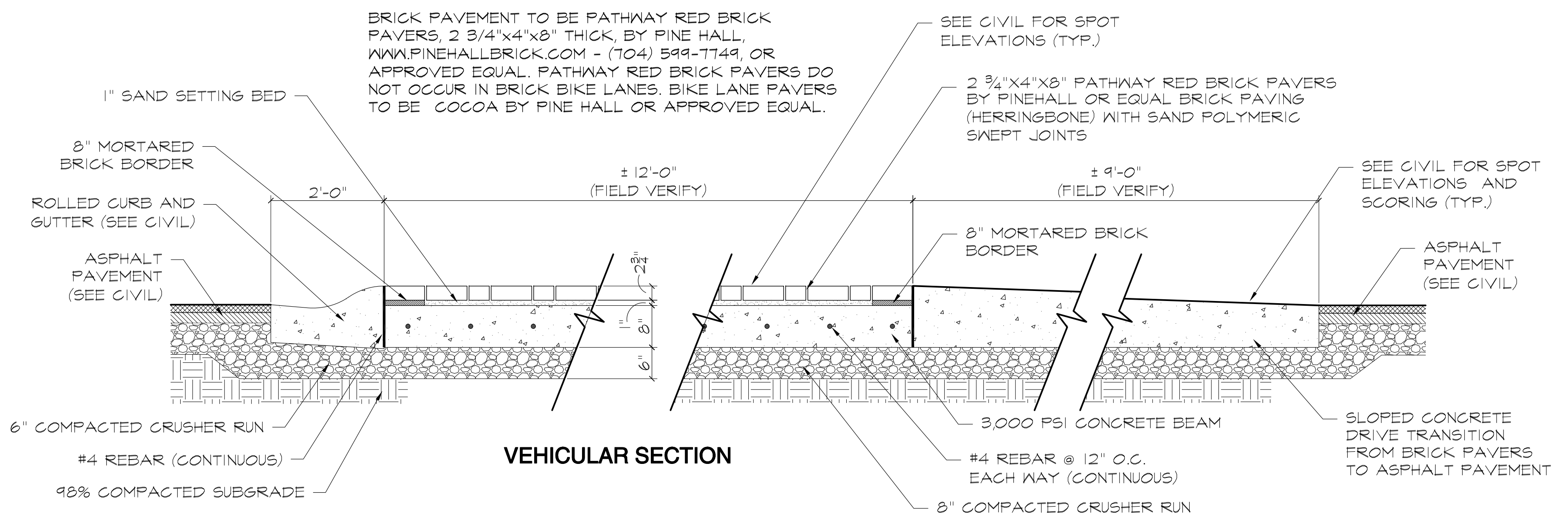
BRICK LAYOUT PLAN - ALTERNATE #1
PLAN

SCALE 1/4"=1'-0"



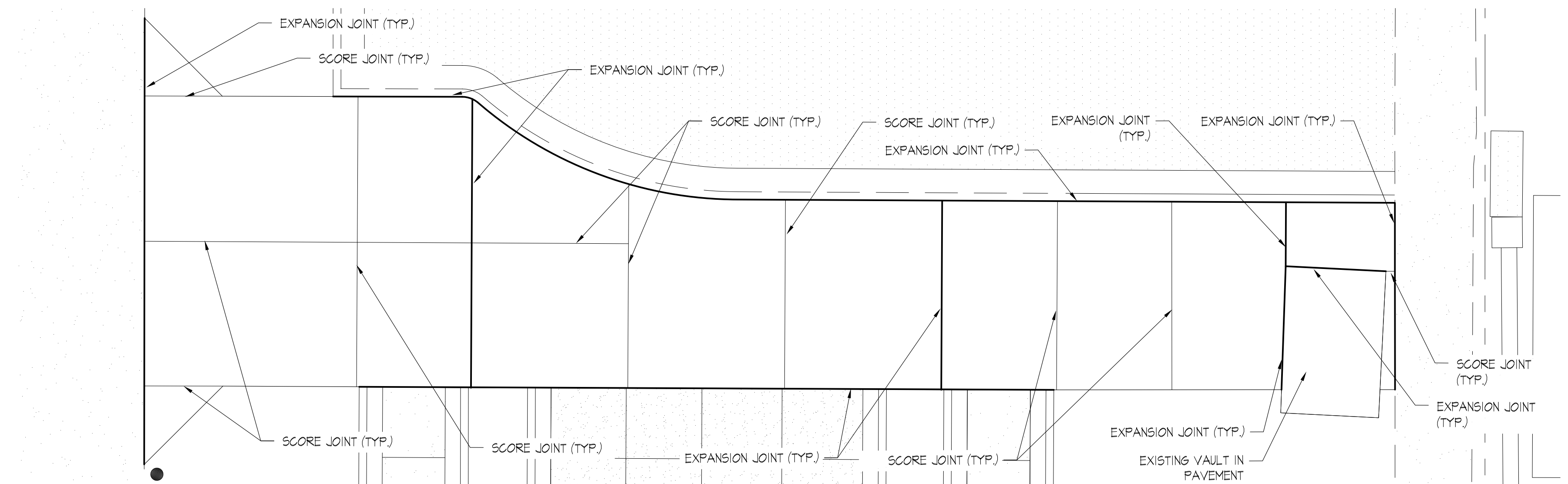
A L-3.2
BRICK PAVEMENT
PLAN / SECTION

SCALE 1"=1'-0"



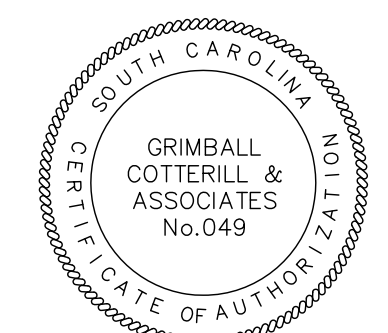
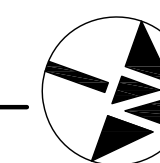
B L-3.2
DRIVEWAY SECTION
SECTION

SCALE 3/4"=1'-0"



CONCRETE FOOTING UNDER BRICK PAVEMENT SCORING
PLAN

SCALE 3/16"=1'-0"



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 72 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.

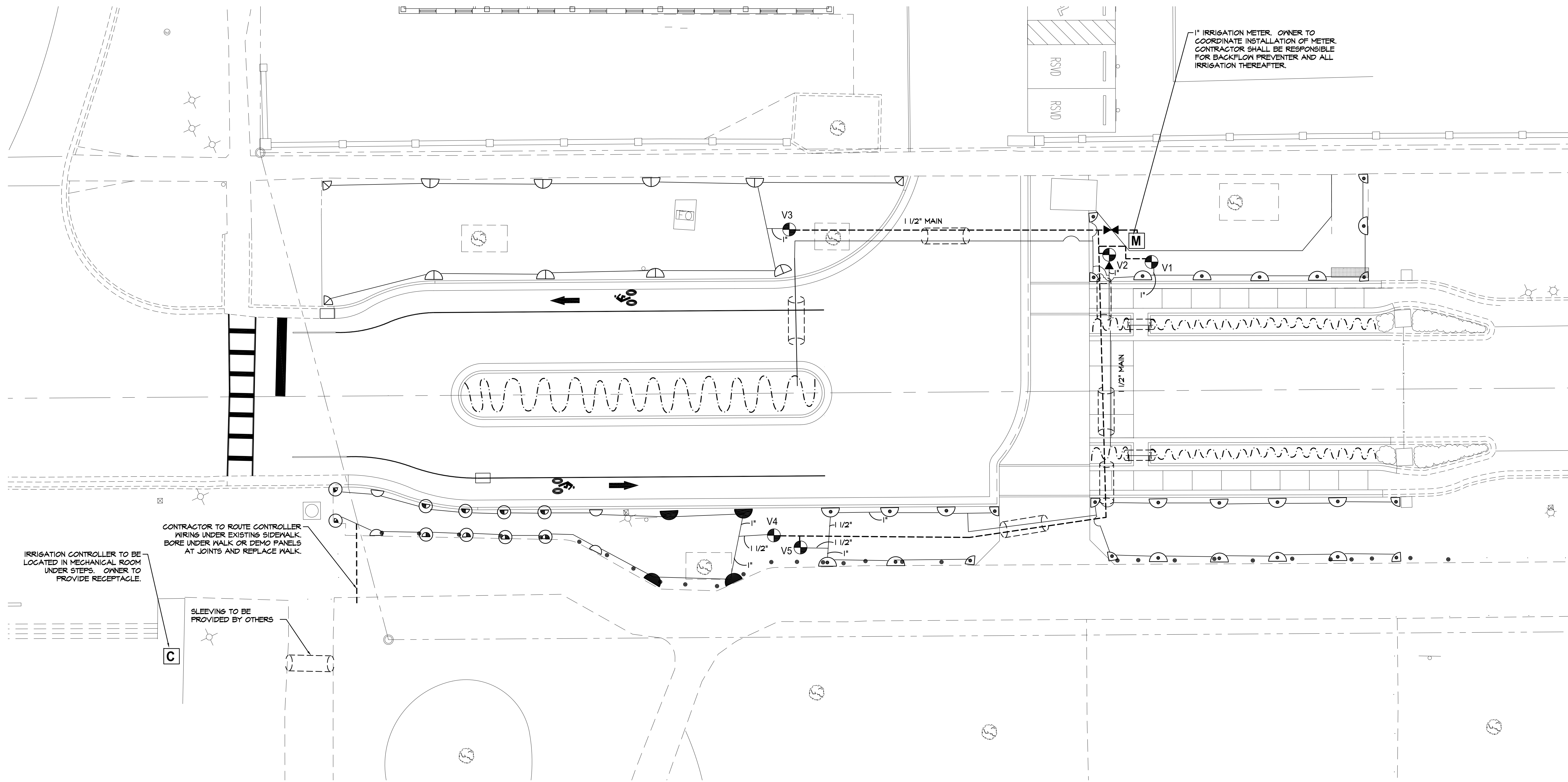
Date	Revisions

GRIMBALL & ASSOCIATES
COTTERILL
 GREENE STREET PEDESTRIAN CORRIDOR
 SITE DETAILS
 (BRICK PAVING ALTERNATE)

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Drawing No.	L-3.2
Sheet No.	OF

Mar 23, 2017 12:09pm C:\Users\Susan\Documents\Work\Greene St. Pedestrian\CD Base.dwg



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 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

BASE BID

ALL IRRIGATION SLEEVING

ALTERNATE #2

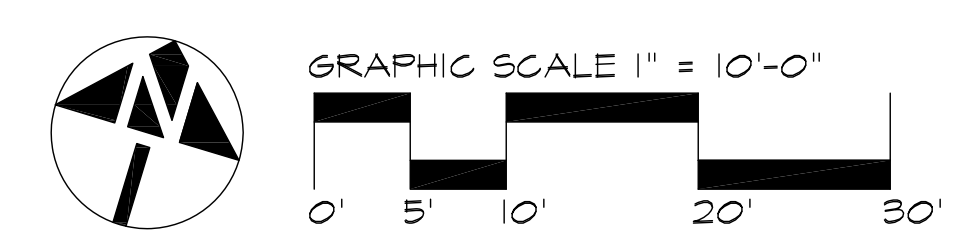
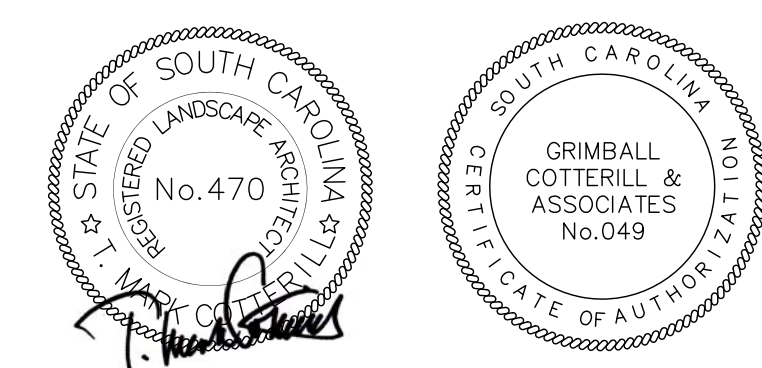
ALL OTHER IRRIGATION

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.

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

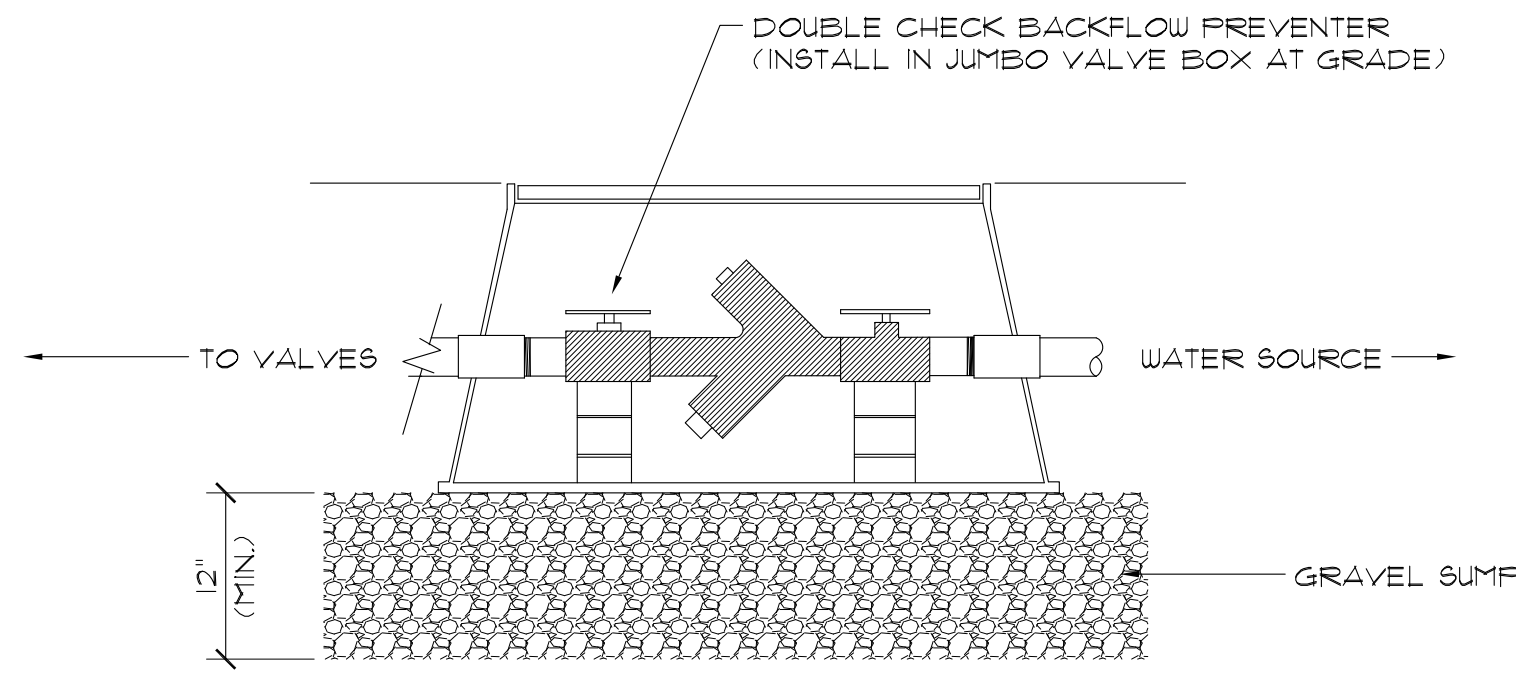


Date	Revisions

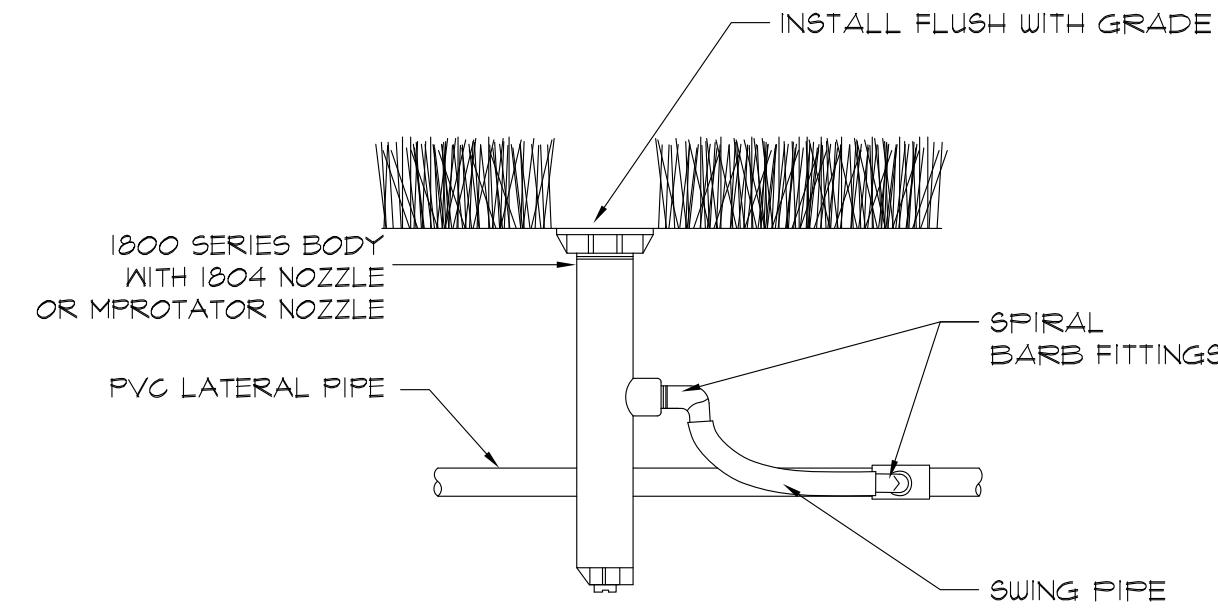
GRIMBALL & ASSOCIATES COTTERILL
 GREENE STREET PEDESTRIAN CORRIDOR
 IRRIGATION PLAN
 (ALTERNATE #2)

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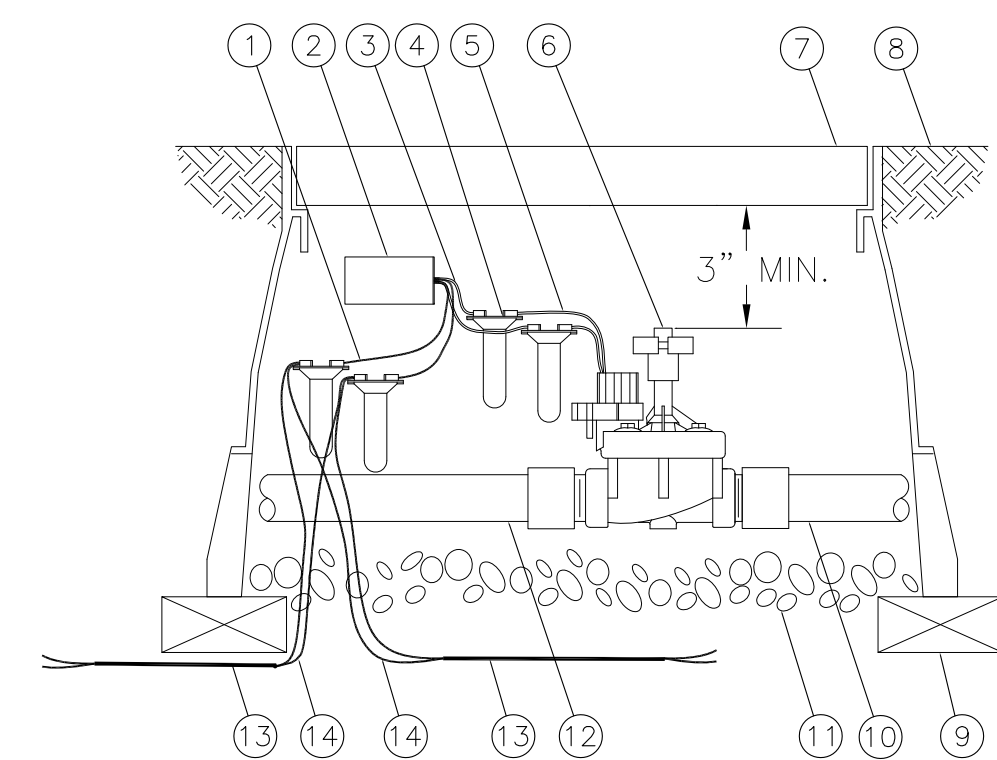
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 Drawing No. 1-1
 Sheet No. OF



A BACKFLOW PREVENTER
I-2 SECTION NOT TO SCALE

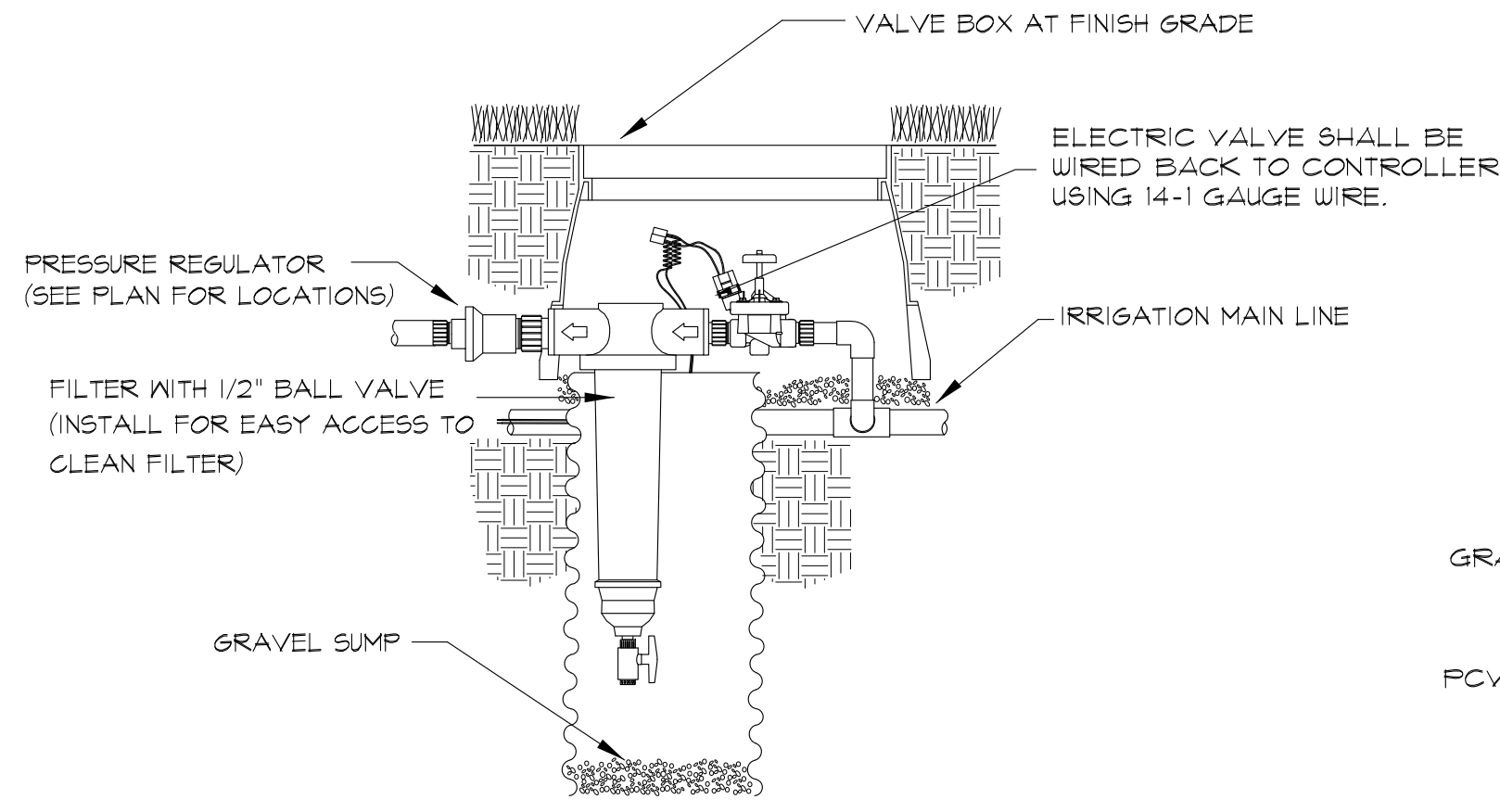


D POP-UP SPRAY SPRINKLER
I-2 SECTION NOT TO SCALE

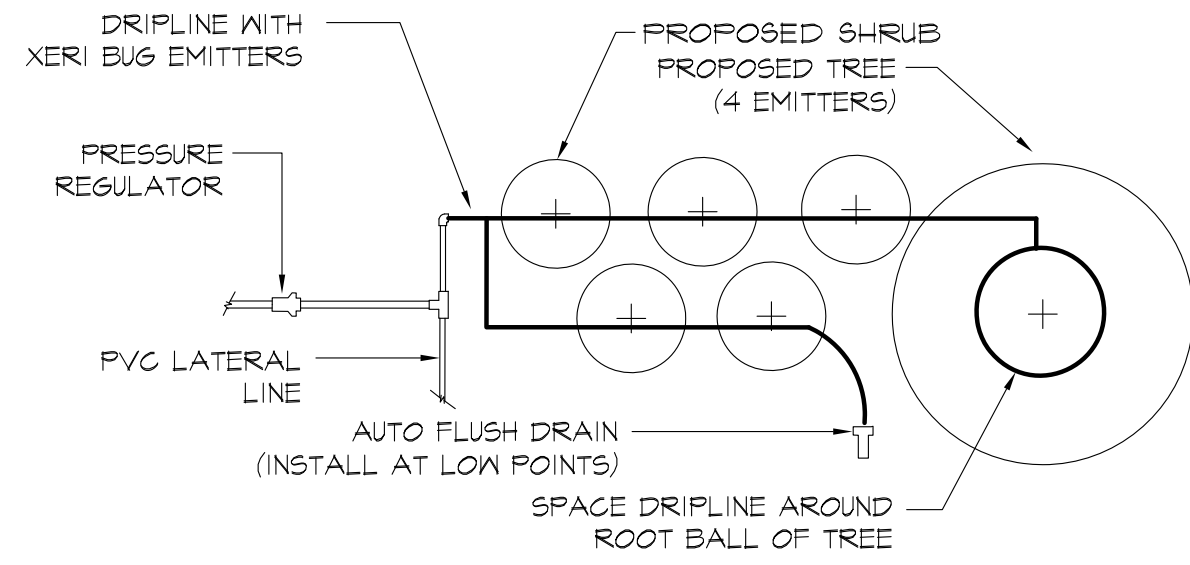


NOTES:
1. MAXIMUM LENGTH OF SECONDARY WIRE PATH (14 AWG) FROM FIELD DECODER TO SOLENOID IS 450 FEET.
2. PLACE 3 FEET OF EXTRA WIRE IN EVERY VALVE BOX FOR EASIER SERVICING.

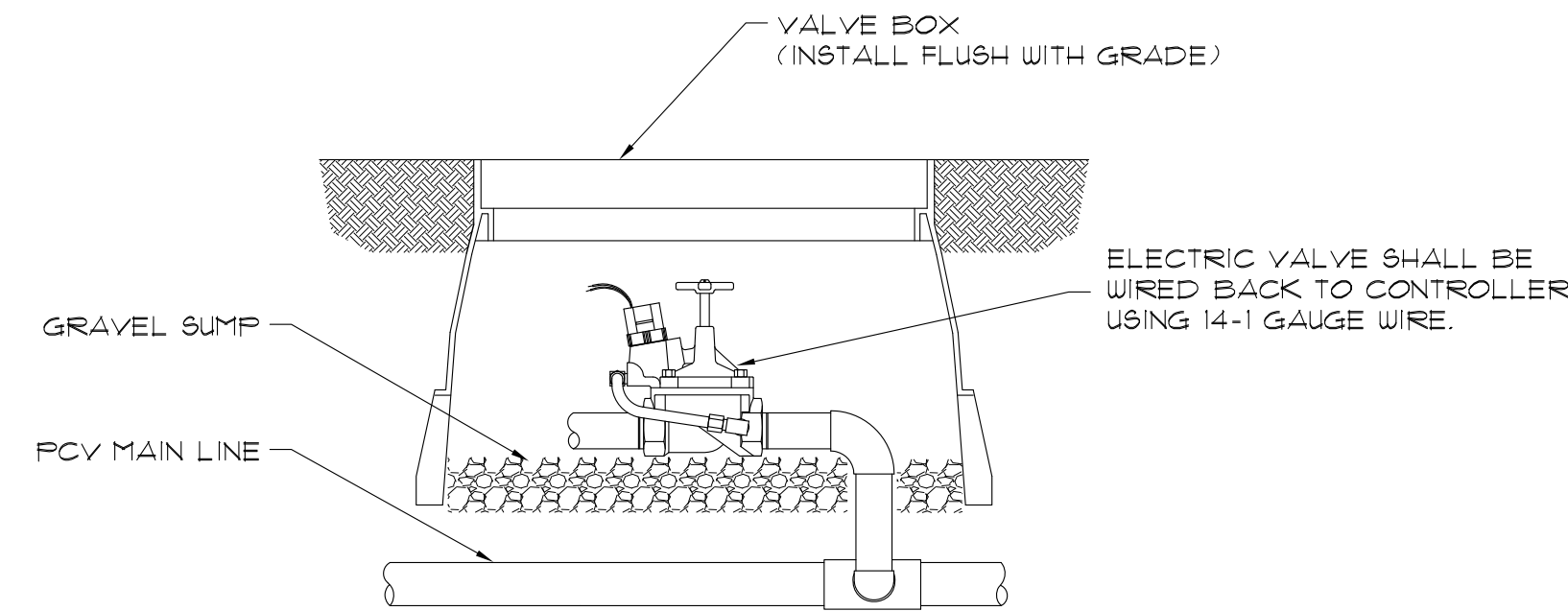
G DECODER CONNECTION TO VALVE
I-2 SECTION NOT TO SCALE



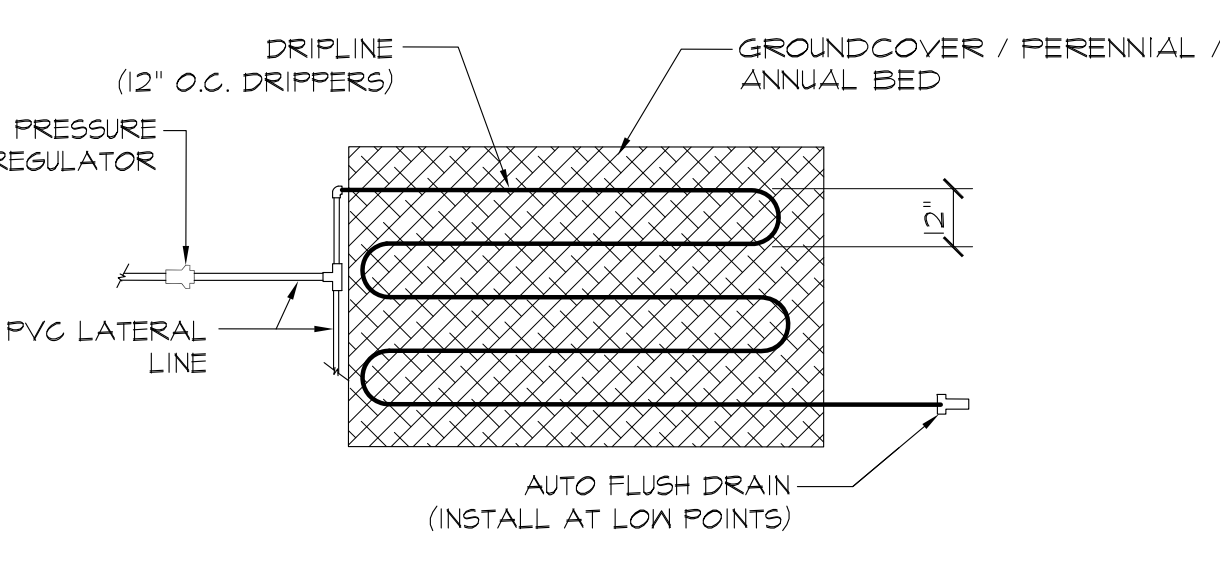
B ELECTRIC VALVE-DRIP ZONE
I-2 SECTION NOT TO SCALE



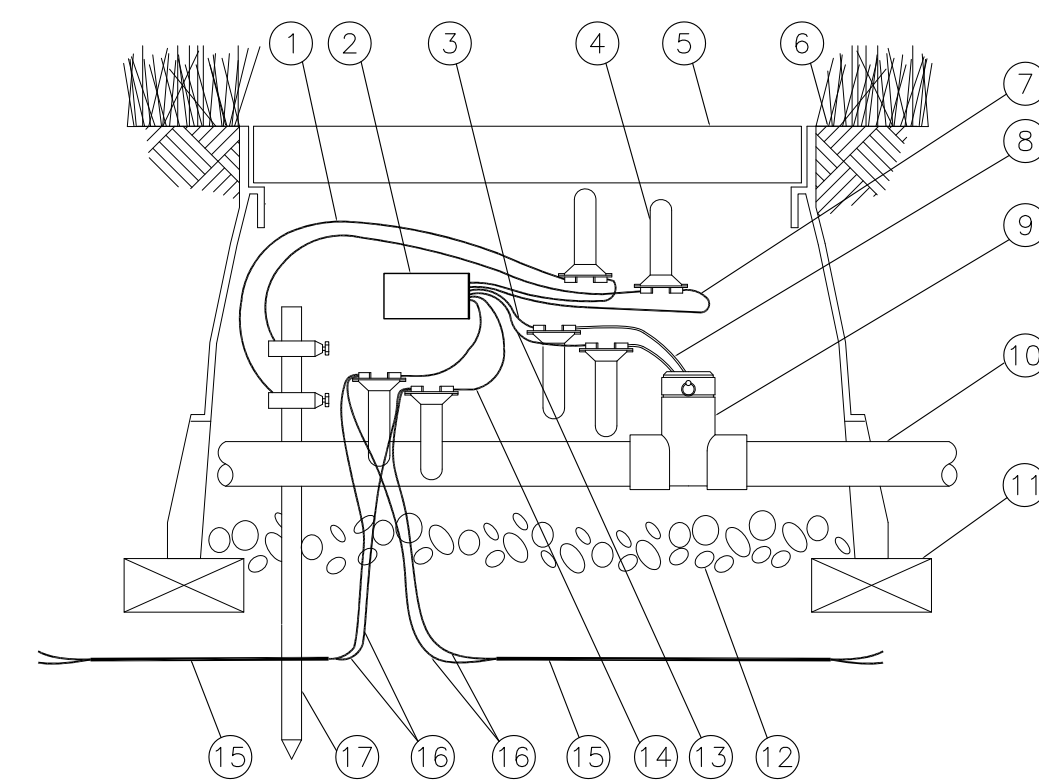
E DRIPLINE IN SHRUBS
I-2 PLAN NOT TO SCALE



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

Date	
Revisions	

GRIMBALL & ASSOCIATES
COTTERILL
GREENE STREET PEDESTRIAN CORRIDOR
IRRIGATION DETAILS
(ALTERNATE #2)

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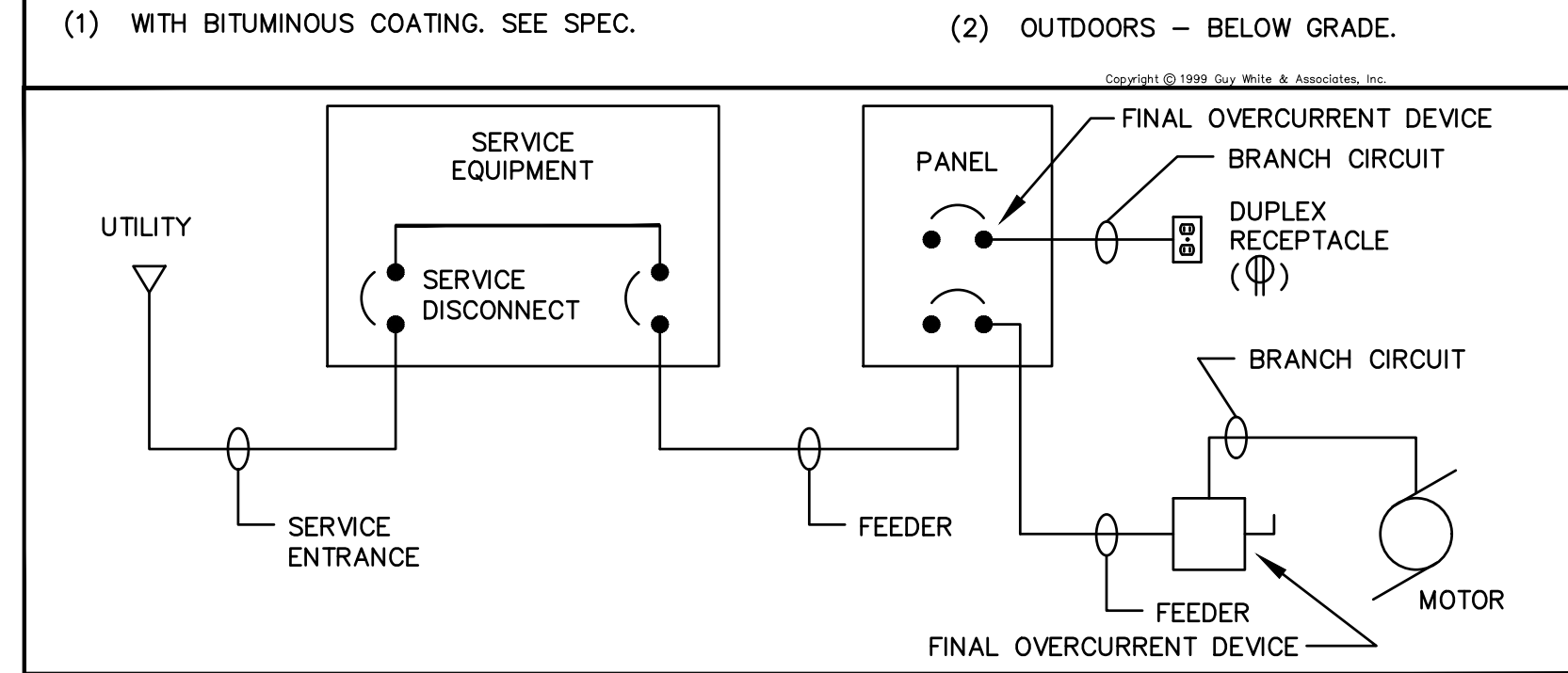
1-2

Sheet No. OF



RACEWAY MATERIAL USE TABLE

APPLICATION	RACEWAY MATERIAL						
	EMT	IMC	GRS	40 PVC	ENT	AC/MC CABLE	MFD. WIRING
CONTRACTOR MAY USE ANY MATERIAL MARKED (●) FOR APPLICATION LISTED. IF MATERIAL IS NOT MARKED FOR AN APPLICATION, IT SHALL NOT BE USED FOR THAT APPLICATION.							
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		●	●				
OUTDOORS - EXPOSED		●	●				
STUB-UPS BELOW PANELS & ENCLOSURES		●	●				
FEEDER CONDUITS		●	●				
SERVICE ENTRANCE		●	●				
(1) WITH BITUMINOUS COATING. SEE SPEC. (2) OUTDOORS - BELOW GRADE.							



ABBREVIATIONS

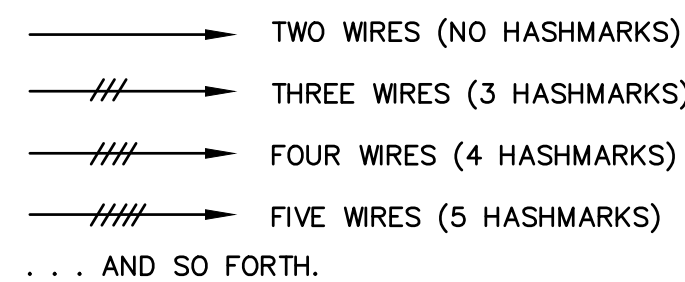
THE FOLLOWING STANDARD ABBREVIATIONS ARE USED IN THESE PLANS AND SPECIFICATIONS. CONTRACTOR IS CAUTIONED THAT ALL ABBREVIATIONS LISTED MAY NOT BE USED; CONSULT PLANS AND SPECIFICATIONS FOR ABBREVIATIONS APPLICABLE TO THIS PROJECT.

- 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:

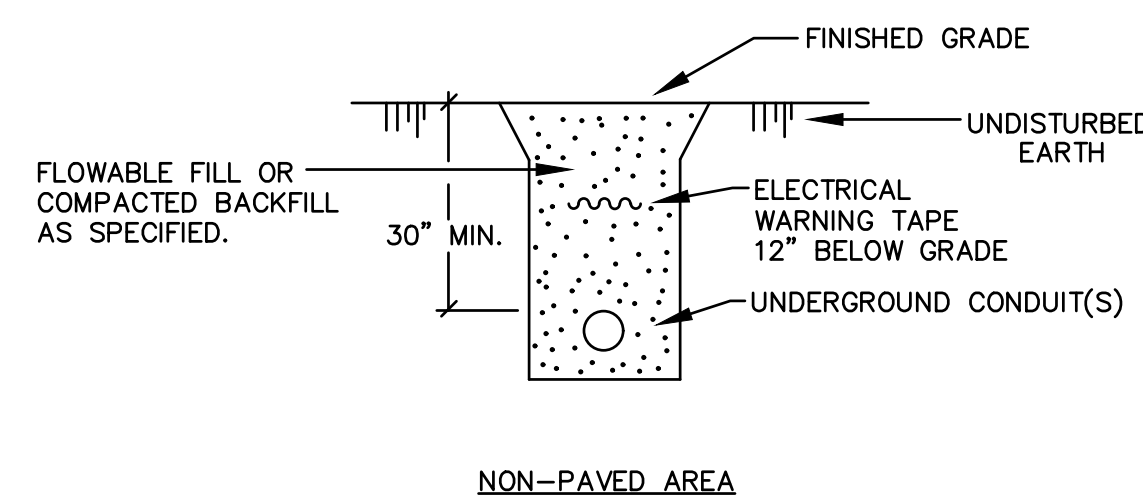
EACH PHASE AND NEUTRAL WIRE IN A CONDUIT RUN IS REPRESENTED BY A HASHMARK. FOR EXAMPLE -



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.

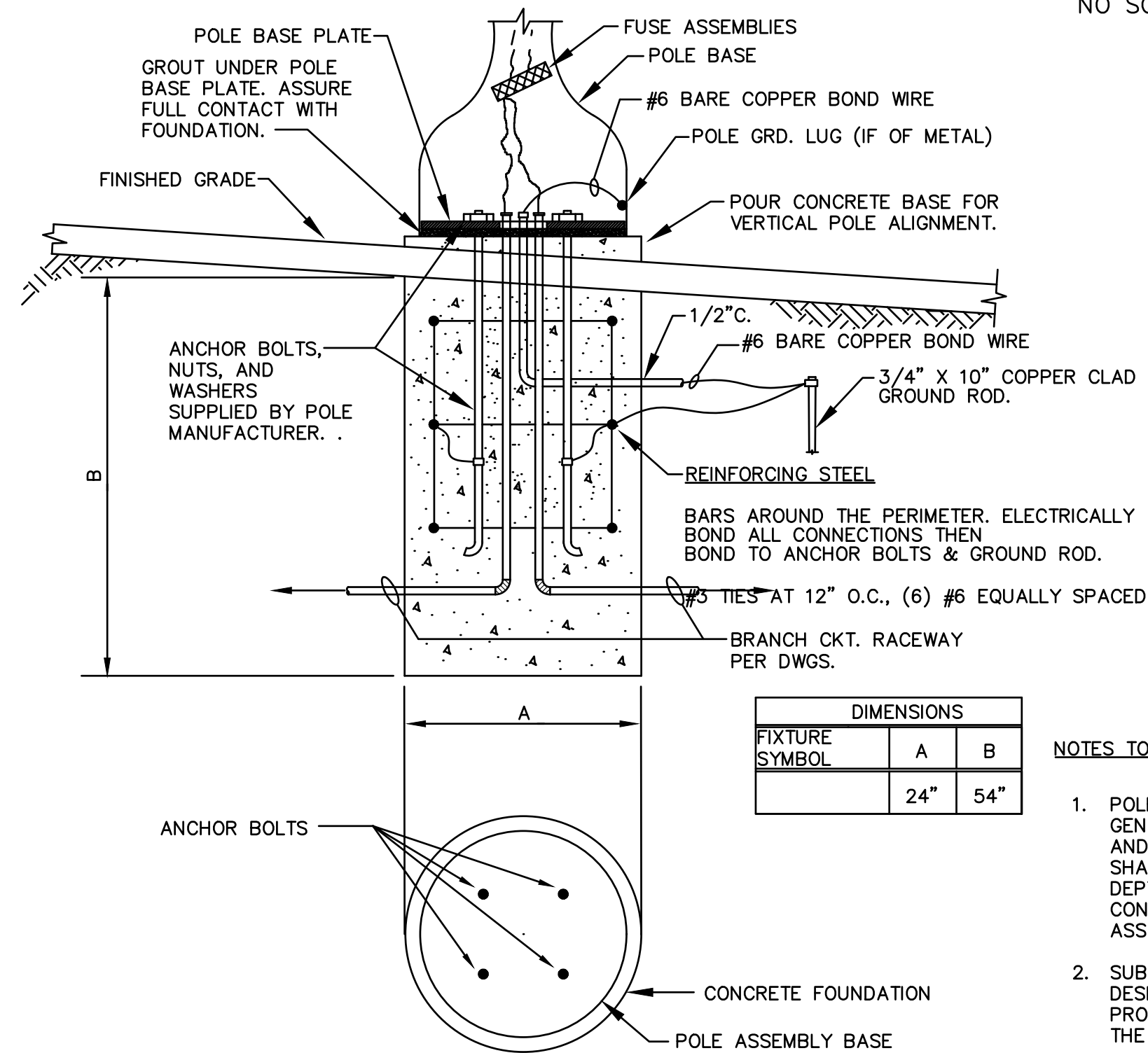
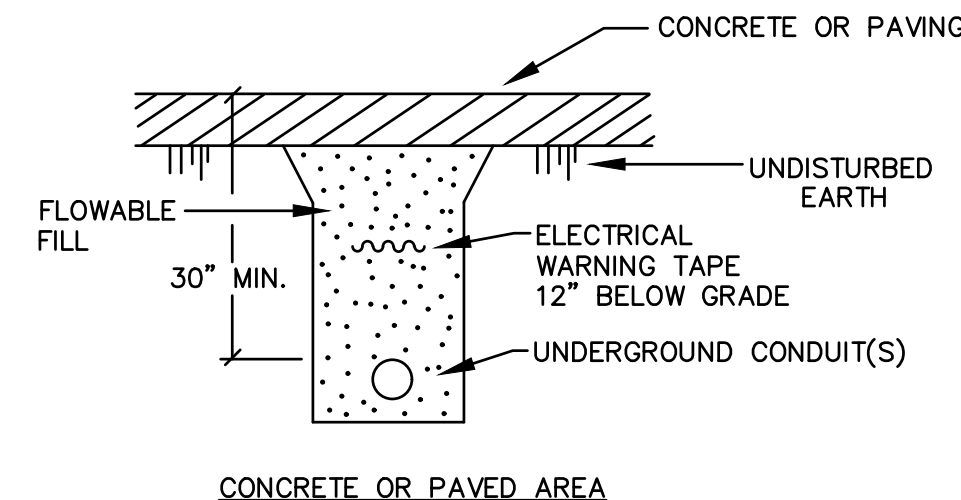
NOTE: CONTRACTOR IS CAUTIONED THAT MULTI-WIRE (LINE-TO-NEUTRAL) BRANCH CIRCUITS DO NOT INDICATE ALL REQUIRED NEUTRAL CONDUCTORS. PROVIDE SEPARATE NEUTRAL CONDUCTORS (WITH COLORED STRIPE TO MATCH PHASE CONDUCTOR) FOR EACH PHASE CONDUCTOR.

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



UNDERGROUND CONDUIT NOT IN A DUCTBANK

NO SCALE



FIXTURE SYMBOL	DIMENSIONS	
	A	B
	24"	54"

NOTES TO POLE ASSEMBLY CONCRETE FOUNDATION DETAIL

- POLE FOUNDATION DETAIL INDICATED IS FOR GENERAL REFERENCE FOR CONSTRUCTION METHOD AND GROUNDING REQUIREMENTS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, COMPONENTS, DEPTH AND OTHER REQUIREMENTS WITH SOIL CONDITIONS AND PROVIDE A COMPLETE POLE ASSEMBLY CONCRETE FOUNDATION DESIGN.
- SUBMIT DESIGN WITH FIXTURE SHOP DRAWINGS. DESIGN SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER LICENCED TO PRACTICE IN THE STATE OF SOUTH CAROLINA.
- DESIGN SHALL BE IN ACCORDANCE WITH APPLICABLE AASHTO, SCDOT AND USC.
- VERIFY ALL POLE BASE/FIXTURE LOCATIONS WITH USC AND CIVIL ENGINEER PRIOR TO INSTALLATION.

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

TYPICAL POLE ASSEMBLY CONCRETE FOUNDATION DETAIL

NO SCALE

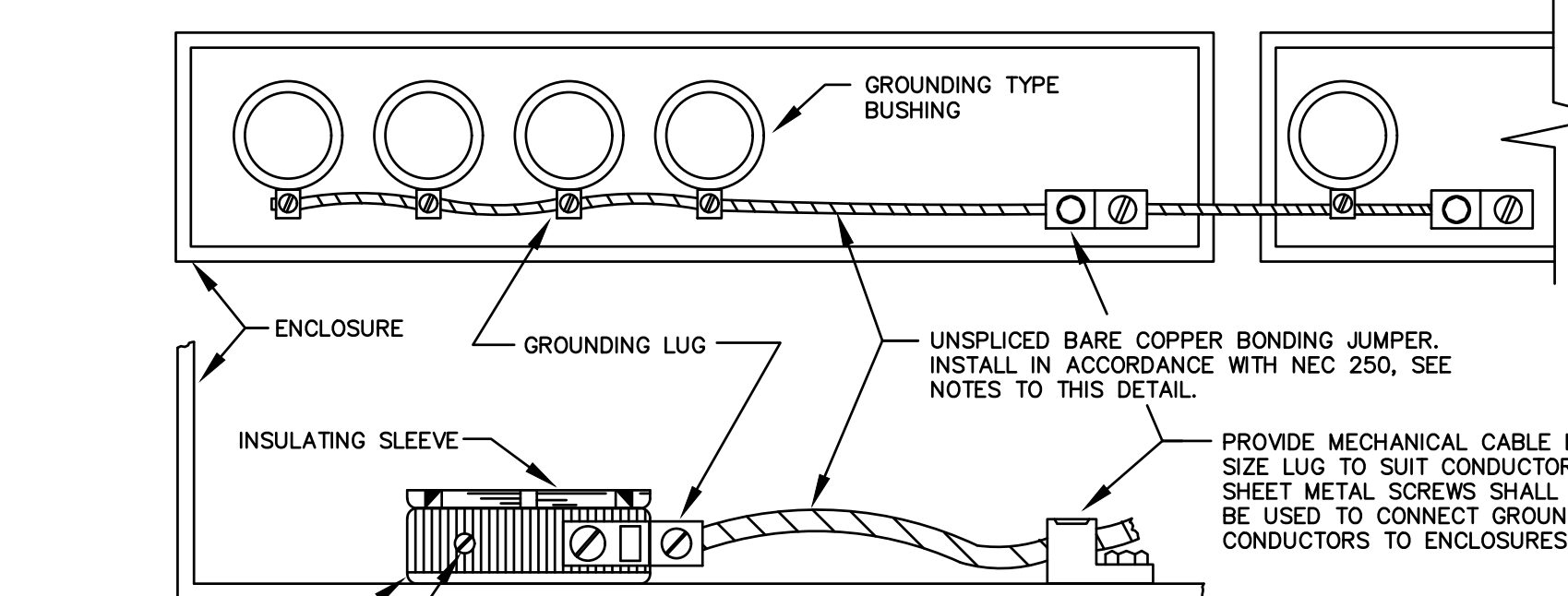
GENERAL NOTES

- 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 (①-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.

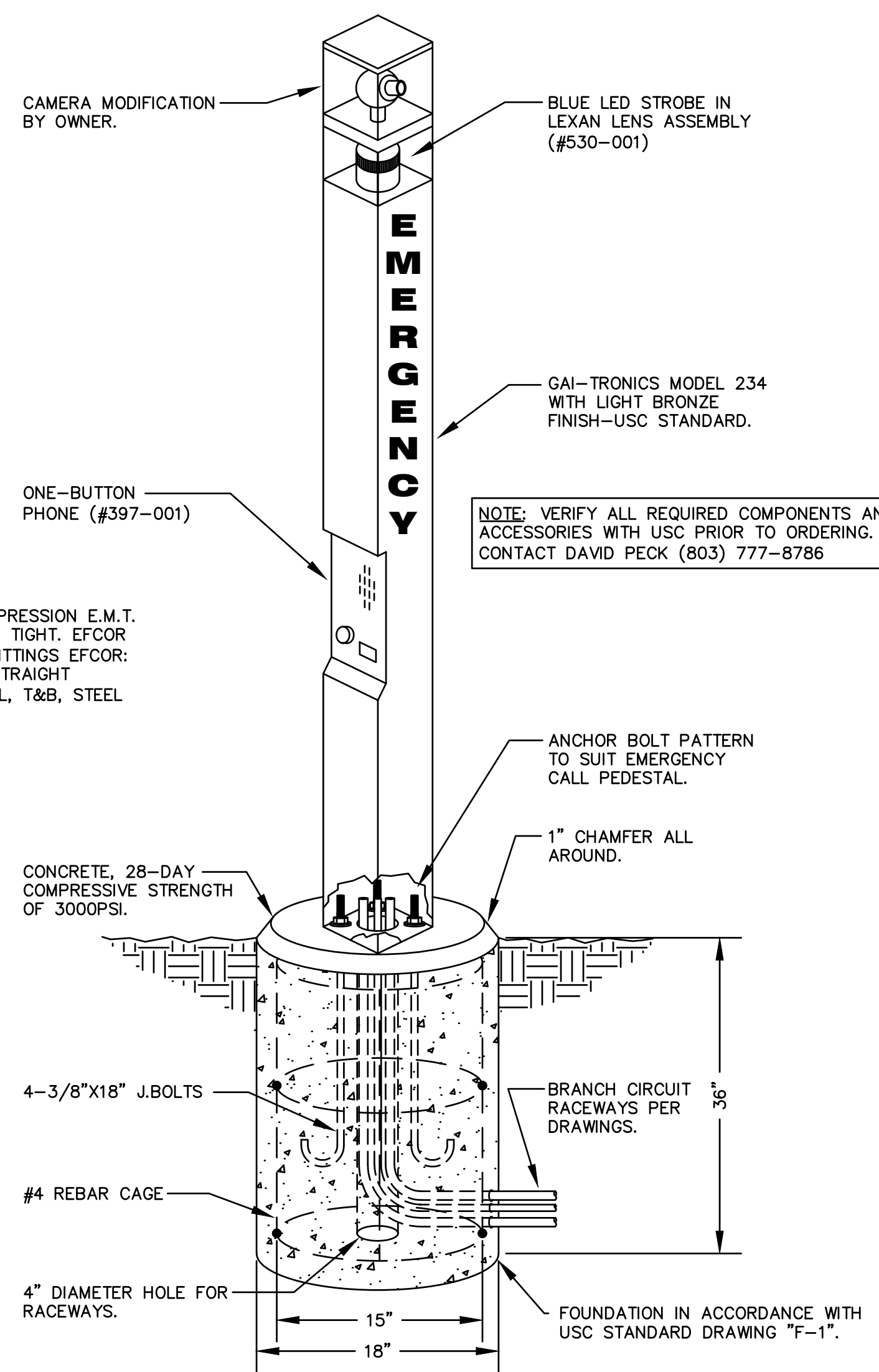


NOTES TO THIS DETAIL

- 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" AND LARGER.
- EXTEND BONDING JUMPER TO EACH PANEL INCLUDING TWO-SECTION PANELS WITH FEED-THRU NIPPLES.

GROUNDING OF CONDUITS 1" C. AND LARGER

NO SCALE



USC STANDARD EMERGENCY CALL BOX

NO SCALE

Revisions	Date

GREENE STREET PEDESTRIAN IMPROVEMENTS
ELECTRICAL NOTES, SCHEDULES, AND DETAILS

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Date: **3/23/17**

Drawing No. **E001**

Sheet No. **1 OF 3**

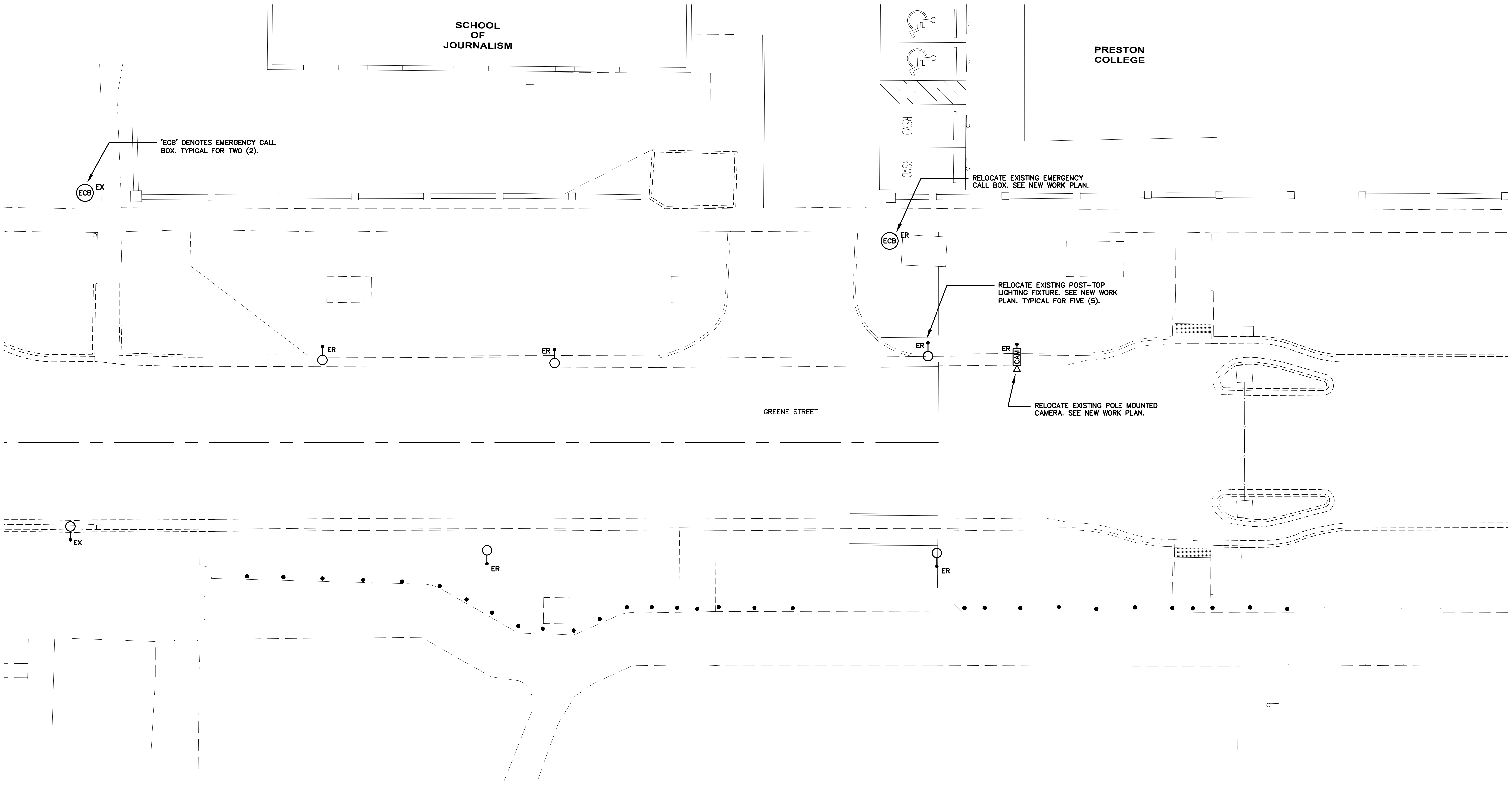
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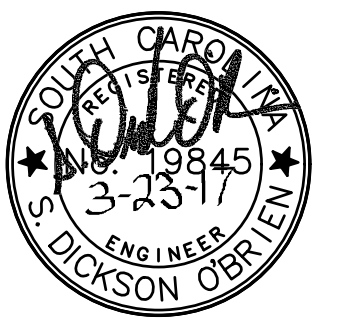
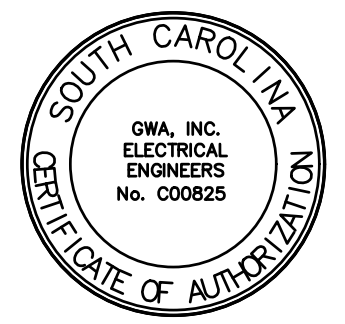
ELECTRICAL SITE DEMOLITION PLAN

SCALE: 1" = 10'-0"



KEY PLAN

SCALE: 1"=1000'



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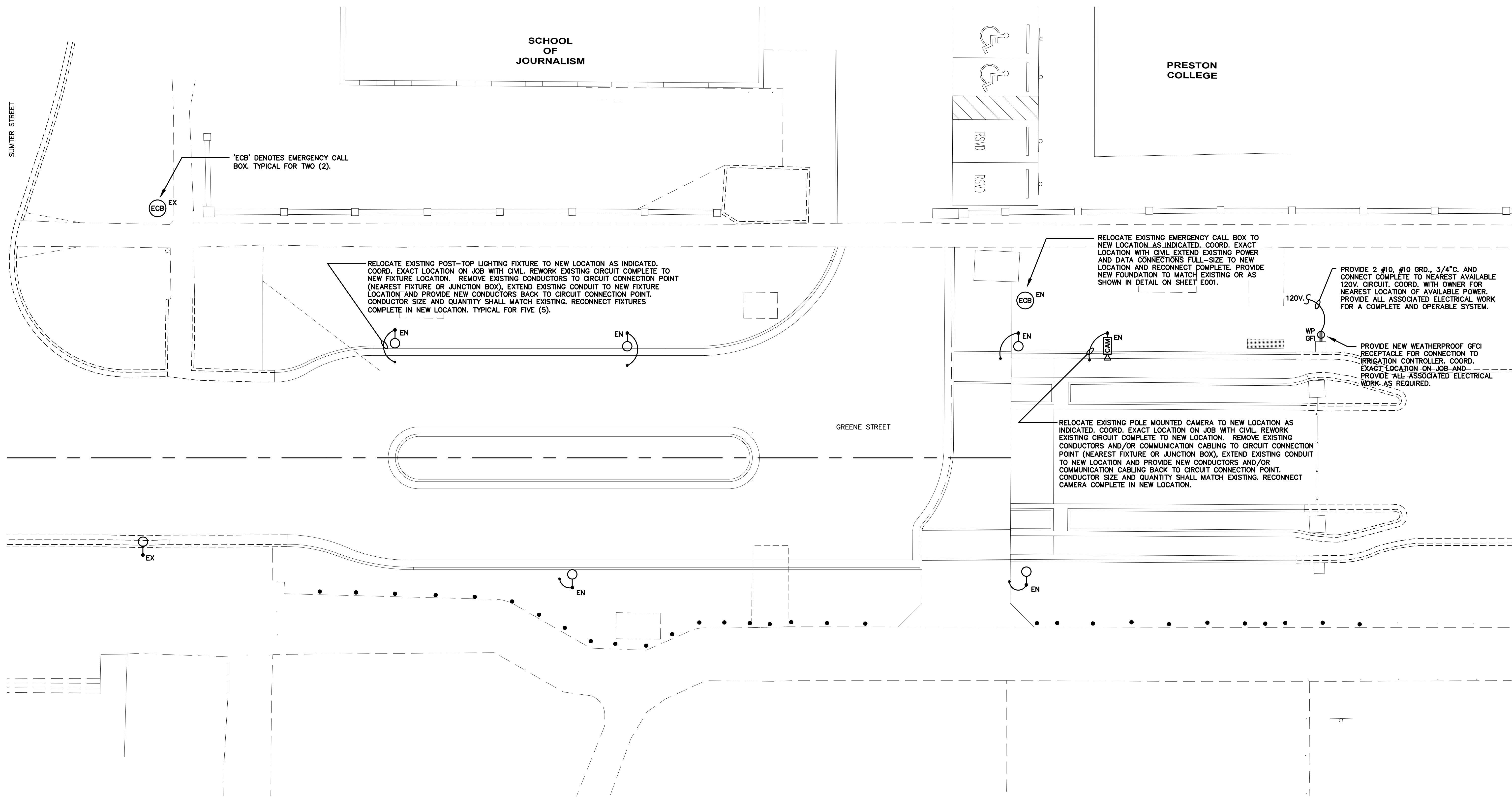
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Date	Revisions

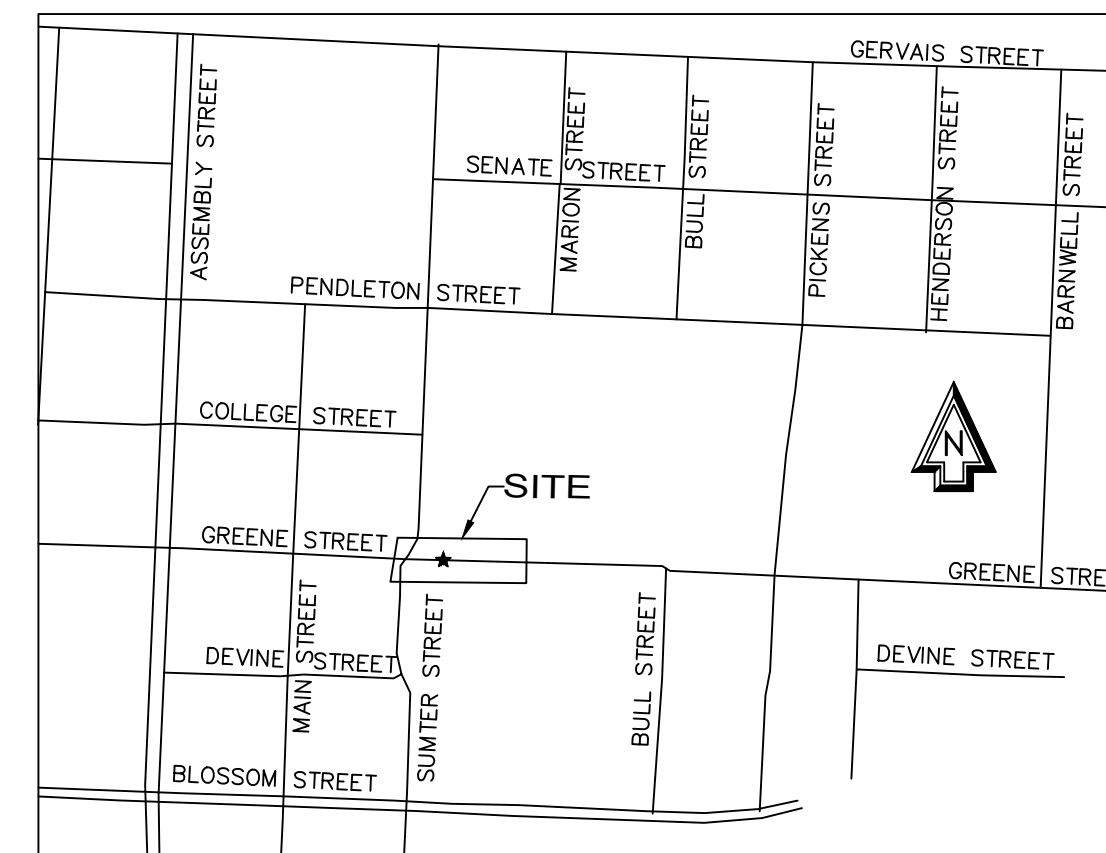
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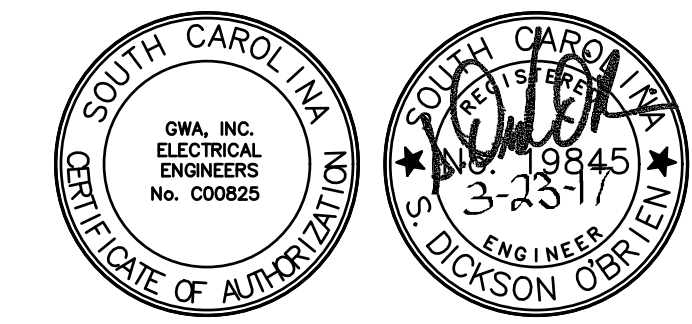
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ELECTRICAL SITE PLAN - NEW WORK
SCALE: 1" = 10'-0"



KEY PLAN
SCALE: 1"=1000'



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