

Stantec

Stantec Consulting Services Inc.

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North Charleston, SC 29418

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www.stantec.com

Town of Summerville

200 S. Main Street

Summerville, SC

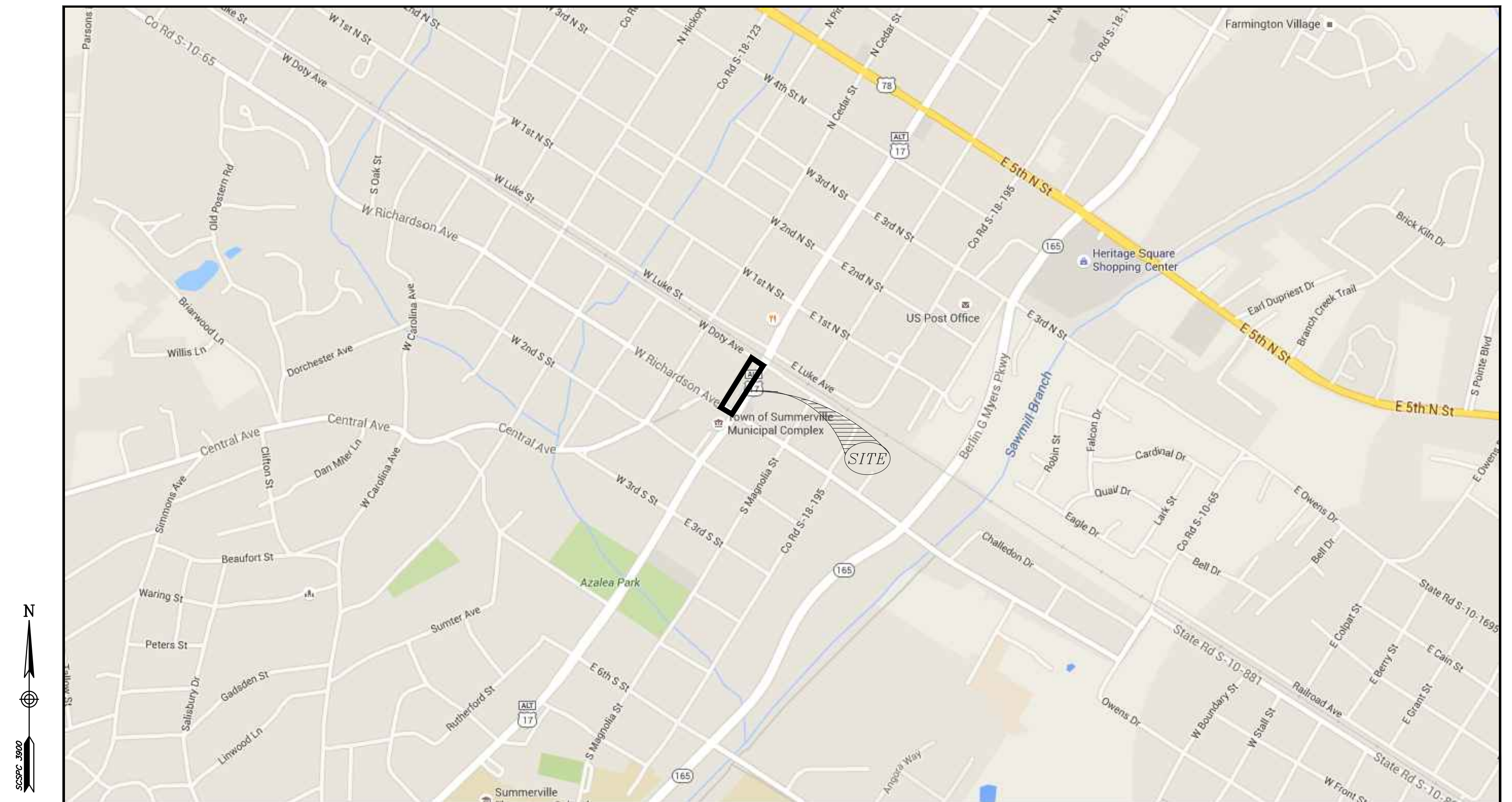
(843) 871-6000

Hutchinson Square Improvements - Phase II

BID SET - PARK

January 24, 2018

Project Number: 178420699



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2/16/17 2:45:44 PM J. L. Lilly

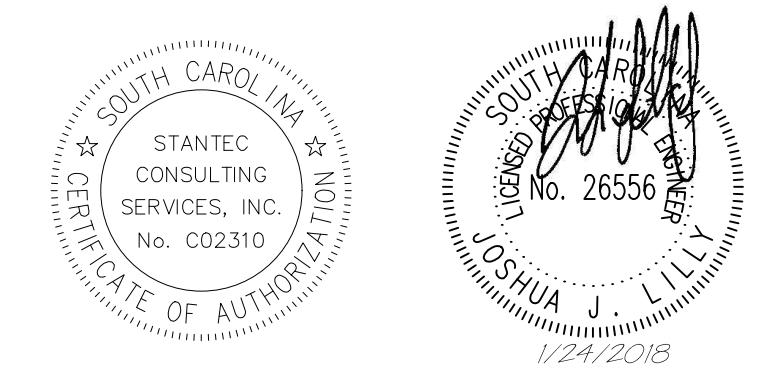


Know what's below.
Call before you dig.

PROJECT CONTACTS			
SUBJECT	MUNICIPALITY / UTILITY PROVIDER	CONTACT	TELEPHONE
PARKS DEPARTMENT	TOWN OF SUMMERVILLE	DOYLE BEST	(843) 851-5211
PLANNING & ZONING	TOWN OF SUMMERVILLE	JESSI SHULER	(843) 851-4217
ROADS AND DRAINAGE	TOWN OF SUMMERVILLE	RUSSELL CORNETTE	(843) 851-4226
WATER	SUMMERVILLE CPW	R. CHRISTOPHER KAHLER	(843) 875-8761
SEWER	SUMMERVILLE CPW	R. CHRISTOPHER KAHLER	(843) 875-8761
ELECTRICAL POWER	SCE&G	WILLIAM SEILGER	(843) 851-4970
NPDES LAND DIST.	SCDHEC - OCRM	RICHARD GEER	(843) 953-0238

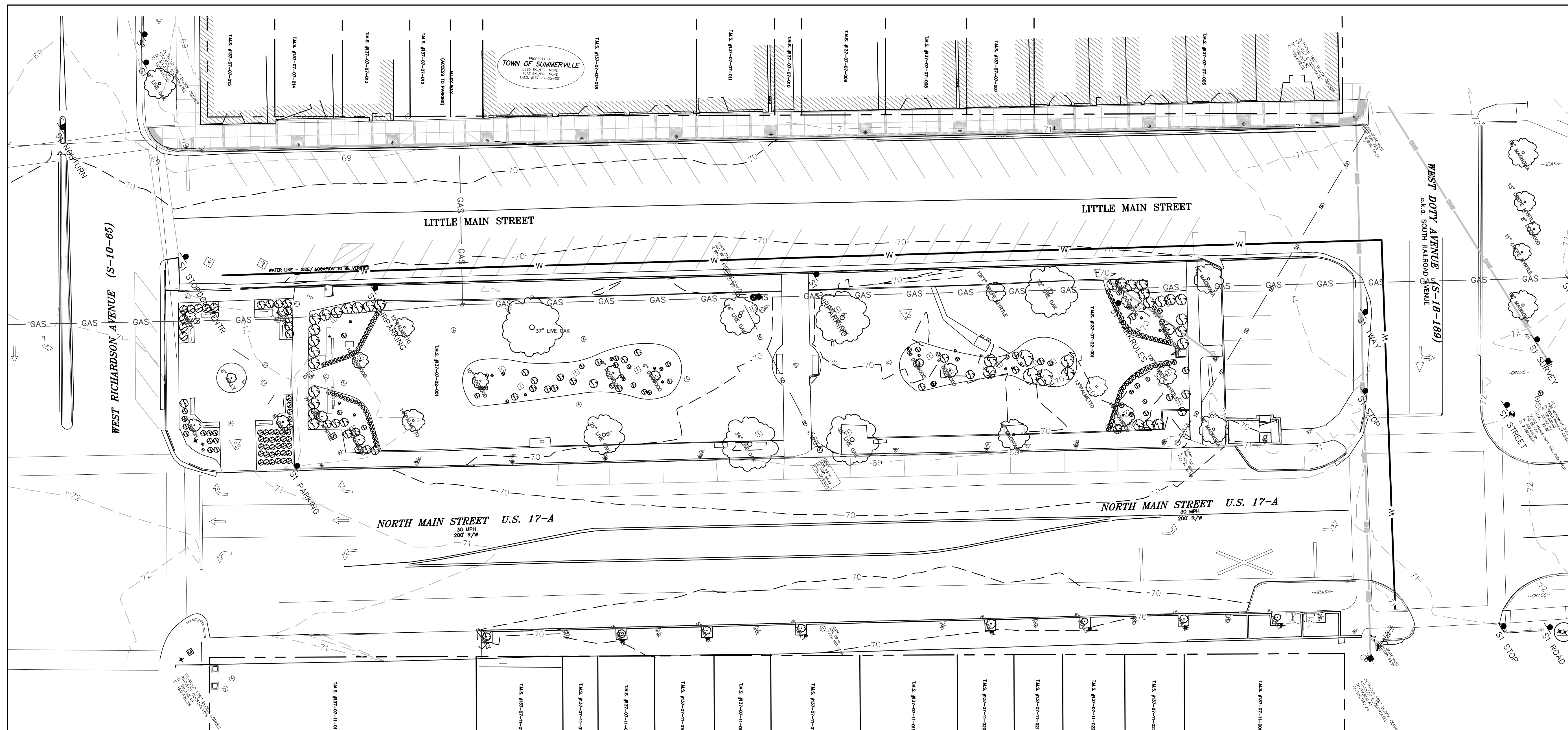
NOTE: Contractor shall retain an Arborist during construction to advise on any tree conflicts or required care during construction activities to preserve in good health existing trees to remain. All roots encountered during construction greater than 1" in diameter shall be coordinated with the Arborist for appropriate avoidance, care, pruning, hand digging, or similar measures.

SHEET INDEX		
SHEET NO.	TITLE	REVISION
	COVER SHEET	0
C1	PROJECT NOTES	0
C2	EXISTING CONDITIONS	0
C3	OVERALL SITE PLAN	0
C4	DEMOLITION & TREE PROTECTION PLAN	0
C5	EROSION AND SEDIMENT CONTROL PLAN	0
C6	EROSION AND SEDIMENT CONTROL DETAILS & NOTES	0
C7	OVERALL SITE LAYOUT & KEY PLAN	0
C8-C9	SITE LAYOUT & KEY PLAN	0
C10	GRADING & DRAINAGE PLAN	0
C11	GRADING & DRAINAGE DETAILS	0
L1	LANDSCAPE	0
L2	LANDSCAPE DETAILS	0
L3-L6	SITE & HARDSCAPE DETAILS	0
I1-I4	IRRIGATION PLANS	0
A1	FLOOR PLAN	0
A2	ROOF PLAN	0
A3	NORTH ELEVATION	0
A4	SOUTH ELEVATION	0
A5	REFLECTED CEILING PLAN	0
A6	EAST ELEVATION AND SECTION	0
A7	DETAILS	0
A8	SIGN ELEVATION	0
S1.1-S2.1	STRUCTURAL DRAWINGS	0
E1.1-E2.1	ELECTRICAL DRAWINGS	0
I1-I4	IRRIGATION DRAWINGS	0



This drawing is not to be used for construction purposes unless signed and sealed by the Engineer of Record and stamped "Approved For Construction." Use of this drawing for quantity take-offs and pricing is preliminary until all applicable permits have been obtained.

Revision	By	Appd.	MM.DD.YY
FOR BID	KV	JLL	01.24.18
BID SET FOR REVIEW	KV	JLL	12.01.17
DESIGN DEVELOPMENT	KV	JLL	08.24.17
Issued	By	Appd.	MM.DD.YY
File Name: 699_pk_cover_notes.dwg	JLL/KV	CJH	JLL/KV
	Dwn.	Chkd.	Dsgn.
			08.24.17
			MM.DD.YY



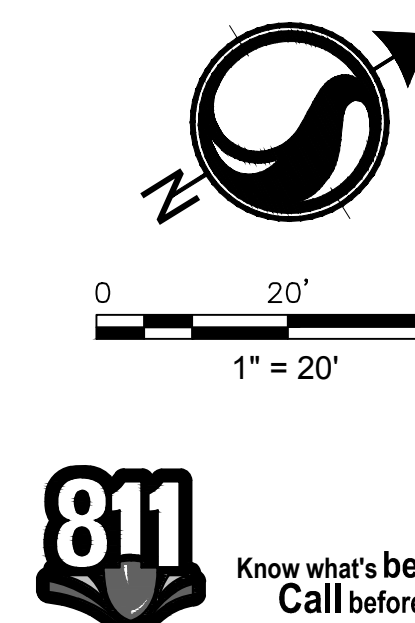
Property #	TMS #	Owners	Deed Book & Page	Plat Book & Page
1	137-07-22-001	Town of Summerville	None Found	None Found
3	137-07-06-002	Town of Summerville	None Found	None Found
4	137-07-07-015	Charles H. Dunning, Jr.	763-335	A-107
5	137-07-07-014	138 South Main St., LLC	8968-89	B-3
6	137-07-07-013	Main Street Partnership	1889-59	B-3
7	137-07-07-012	Main Street Partnership	1889-59	B-3
8	137-07-07-016	Chellis Building, LLC (The)	7778-121	13-115
9	137-07-07-011	Gen Partners Act I A SC	643-286	B-5
10	137-07-07-010	Elainey Y. Niketas, et al.	560-359	D-36
11	137-07-07-009	120 South Main St., LLC	7692-153	I-145
12	137-07-07-008	Southeastern Property Management, Inc	2479-274	G-55
13	137-07-07-007	Betty J. Johnson	8974-144	16-25
14-A	137-07-07-005.000	Summerville Town Square Venture 5 LLC	1721-70	F-31
14-B	137-07-07-005.001	Muckenfuss Properties, LLC	8978-321	F-31
14-C	137-07-07-005.002	Norbert E. Cummings, Jr.	3271-159	F-31
14-D	137-07-07-005.003	Cummings Law Firm	6618-268	F-31
14-E	137-07-07-005.004	Two Five Ninety Nine, LLC	3549-272	F-31
14-F	137-07-07-005.005	Two Five Ninety Nine, LLC	2470-223	F-31
14-G	137-07-07-005.006	Two Five Ninety Nine, LLC	2470-223	F-31
14-H	137-07-07-005.007	Muckenfuss Properties, LLC	8798-321	F-31
14-I	137-07-07-005.008	Rutherford P. C. Smith	2470-227	F-31
14-J	137-07-07-005.009	Cross Ties LLC	4540-285	F-31
14-K	137-07-07-005.010	Robert L. Pratt, LLC	4369-122	F-31
14-L	137-07-07-005.011	Maggie Enterprises, LLC	7573-341	F-31
14-M	137-07-07-005.012	Robert L. Pratt, LLC	4369-122	F-31
14-N	137-07-07-005.013	Robert L. Pratt, LLC	4369-122	F-31
14-O	137-07-07-005.014	Ramp Patch, LLC	8366-98	G-55
15	137-07-11-001	Mark J. Deitch	3288-210	02-151
16	137-07-11-023	Red Tide Construction	9242-350	02-151
17	137-07-11-022	Anna Louise Perry	626-112	02-151
18	137-07-11-021	Robert L. Pratt LLC	5307-36	A-27
19	137-07-11-020	Beryl A. Cox	1230-245	A-27
20	137-07-11-019	Beryl A. Cox	6960-211	A-27
21	137-07-11-018	123 S. Main St., LLC	5173-213	A-27
22	137-07-11-017	Penn Properties, LLC	2963-37	A-27
23	137-07-11-016	Seventeen-A Associates, LLC	7398-54	L-141
24	137-07-11-015	Eva B. Hinson	130-107	A-27
25	137-07-11-014	Helen L. Hiett (Knight)	126-97	A-27
26	137-07-11-013	Flowerdown Players, Inc.	570-158	A-27
27	137-07-11-012	139 Main Street, LLC	6567-270	L-96
28	137-07-10-001	Robert L. Pratt, LLC	3149-51	05-86



NOTES

- THE PURPOSE OF THIS DRAWING IS TO MAP THE EXISTING CONDITIONS OF HUTCHINSON SQUARE PARK AT THE INTERSECTION OF HWY. 17-A AND WEST DOTY AVENUE. IT DOES NOT CONSTITUTE A BOUNDARY SURVEY OF THE ADJACENT PARCELS. THE BOUNDARIES SHOWN FOR THE ADJACENT PARCELS ARE APPROXIMATIONS ONLY. THE ROAD/STREET/RIGHTS-OF-WAYS ARE BASED ON THE 1997 DETMOLD BASE LINE READJUSTMENT SURVEY.
- THE HORIZONTAL AND VERTICAL DATUM FOR THIS PROJECT ARE TIED TO THE 1997 DETMOLD BASE LINE READJUSTMENT SURVEY AND NAVD 88 RESPECTIVELY. THE PROJECT HAS BEEN SCALED TO GROUND AT CSE-1 (NGS MONUMENT 'DOTY'), DETMOLD SURVEY COORDINATES: N: 100,000.00, E: 200,000.00 AND AN ELEVATION OF 72.32' NAVD 88 (U.S. SURVEY FOOT, GEOID12A). THE PROJECT HAS ALSO BEEN TIED TO STATE PLANE COORDINATES AT CSE-1 (NGS MONUMENT 'DOTY'), NAD 83 (2011 ADJ. PUBLISHED, INTERNATIONAL FOOT): N: 432,841.30, E: 2,252,844.02. TO GET GRID SCALED COORDINATES MULTIPLY BY THE COMBINED SCALE FACTOR AT CSE-1 OF 0.999899078 FOR THIS PROJECT AREA.
- ALL DISTANCES AND LINE WORK ARE SCALED TO GROUND.
- NO OTHER SUBSURFACE OR ENVIRONMENTAL INVESTIGATIONS AND/OR SURVEYS WERE MADE FOR THIS PROPERTY; THEREFORE, THIS MAP DOES NOT REFLECT THE EXISTENCE OR NONEXISTENCE OF CONTAMINATION, ENDANGERED SPECIES, OR OTHER CONDITIONS, WHETHER NATURAL OR MANMADE, WHICH MAY AFFECT THIS PROPERTY AS POTENTIALLY REVEALED THROUGH ADDITIONAL TYPES OF SURVEYS OR INVESTIGATIONS.
- ALL T.M.S. NUMBERS NOTED HEREON ARE FROM THE DORCHESTER COUNTY GEOGRAPHIC INFORMATION SYSTEM (G.I.S) UNLESS NOTED OTHERWISE.
- CONTOUR INTERVAL IS ONE (1) FOOT, NAVD 88.

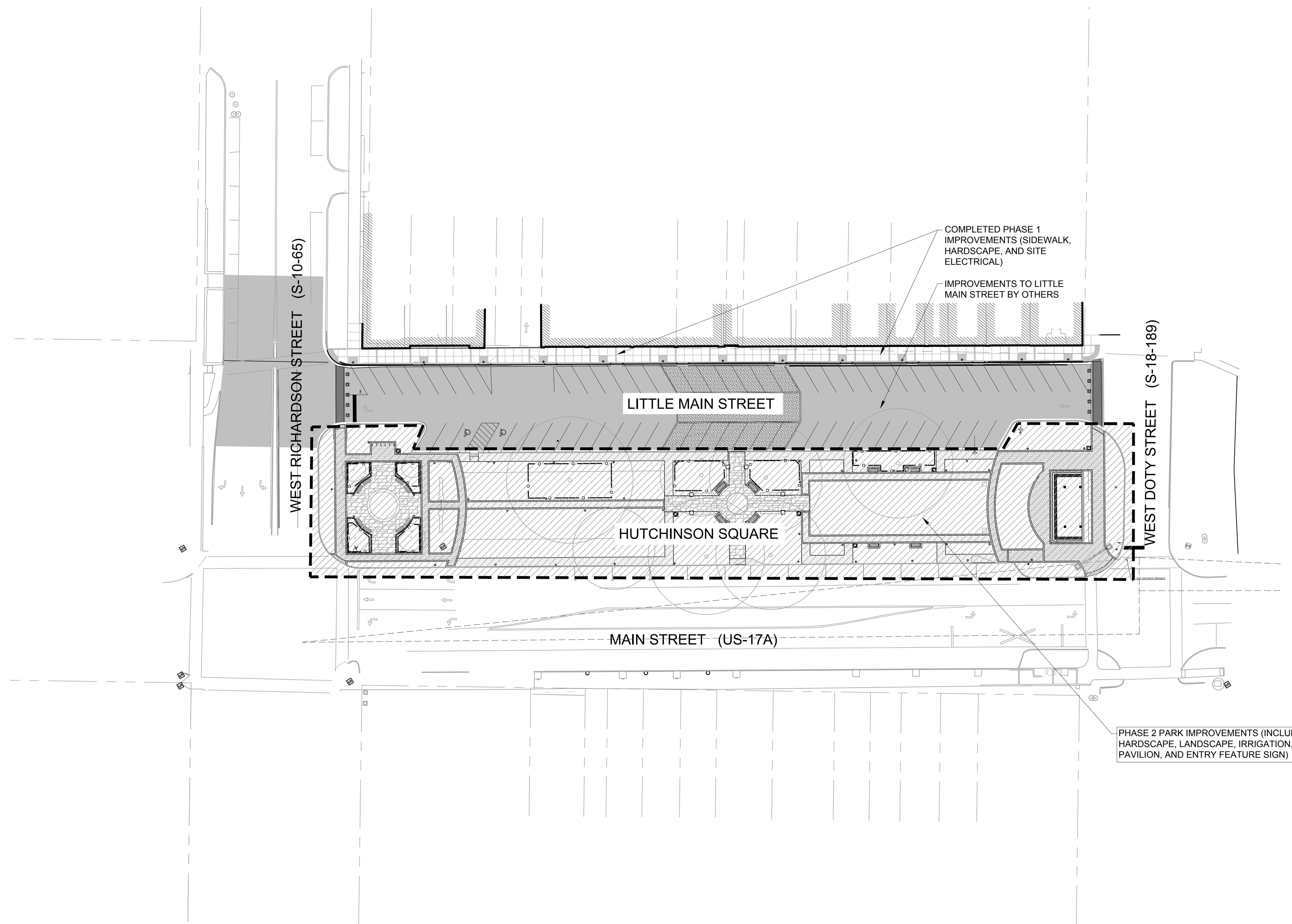
SURVEY PROVIDED TO STANTEC BY CORNERSTONE SURVEYING & ENGINEERING, INC. SURVEY COMPLETED JUNE 30, 2017.



Consultants

Legend

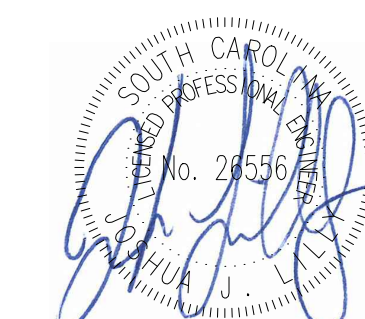
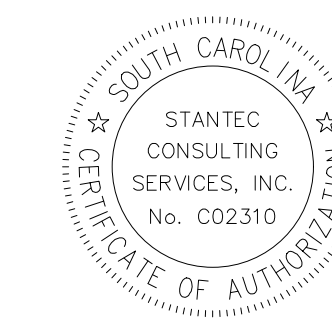
Notes



Revision	By	Appd.	YY.MM.DD
FOR BID	KV	JLL	18.01.24
DESIGN DEVELOPMENT	KV	JLL	17.08.24
Issued	By	Appd.	YY.MM.DD

File Name: _____
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Permit-Seal



Client/Project
 Town of Summerville
 HUTCHINSON SQUARE IMPROVEMENTS - PHASE II
 BID SET - PARK
 Summerville, SC

Title
 OVERALL SITE PLAN

Project No. 178420699	Scale 1" = 30'	Revision
Drawing No.	Sheet	Revision

Legend

- LD LIMITS OF DISTURBANCE
- 15 EXISTING CONTOURS
- 20 PROPOSED CONTOUR
- SF SILT FENCE
- DRAINAGE FLOW ARROW
- TS TEMPORARY SEEDING
- DC DUST CONTROL
- TYPE E INLET PROTECTION
- INLET FILTER BAG

Notes

1. SEE SHEET C6 FOR NOTES AND DETAILS.
2. EXISTING INLET PROTECTION ON BOXES IN LITTLE MAIN WILL BE INSTALLED BY OTHERS AS PART OF THE LITTLE MAIN IMPROVEMENT PROJECT. ONCE THAT PROJECT IS COMPLETE, THE INLET PROTECTION WILL REMAIN AND THE INSPECTION AND MAINTENANCE WILL BE THE RESPONSIBILITY OF THE PARK CONTRACTOR.

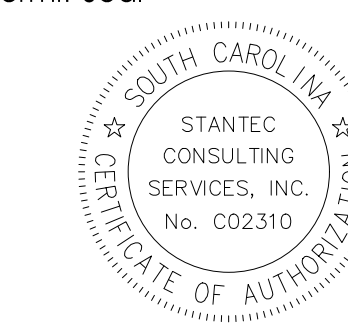
Revision

Revision	By	Appd.	YY.MM.DD
FOR BID	KV	JLL	18.01.24
DESIGN DEVELOPMENT	KV	JLL	17.08.24
Issued	By	Appd.	YY.MM.DD

File Name:

File Name:	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Permit-Seal



01/24/2018

Client/Project
Town of Summerville

HUTCHINSON SQUARE IMPROVEMENTS - PHASE II
BID SET - PARK

Summerville, SC

Title

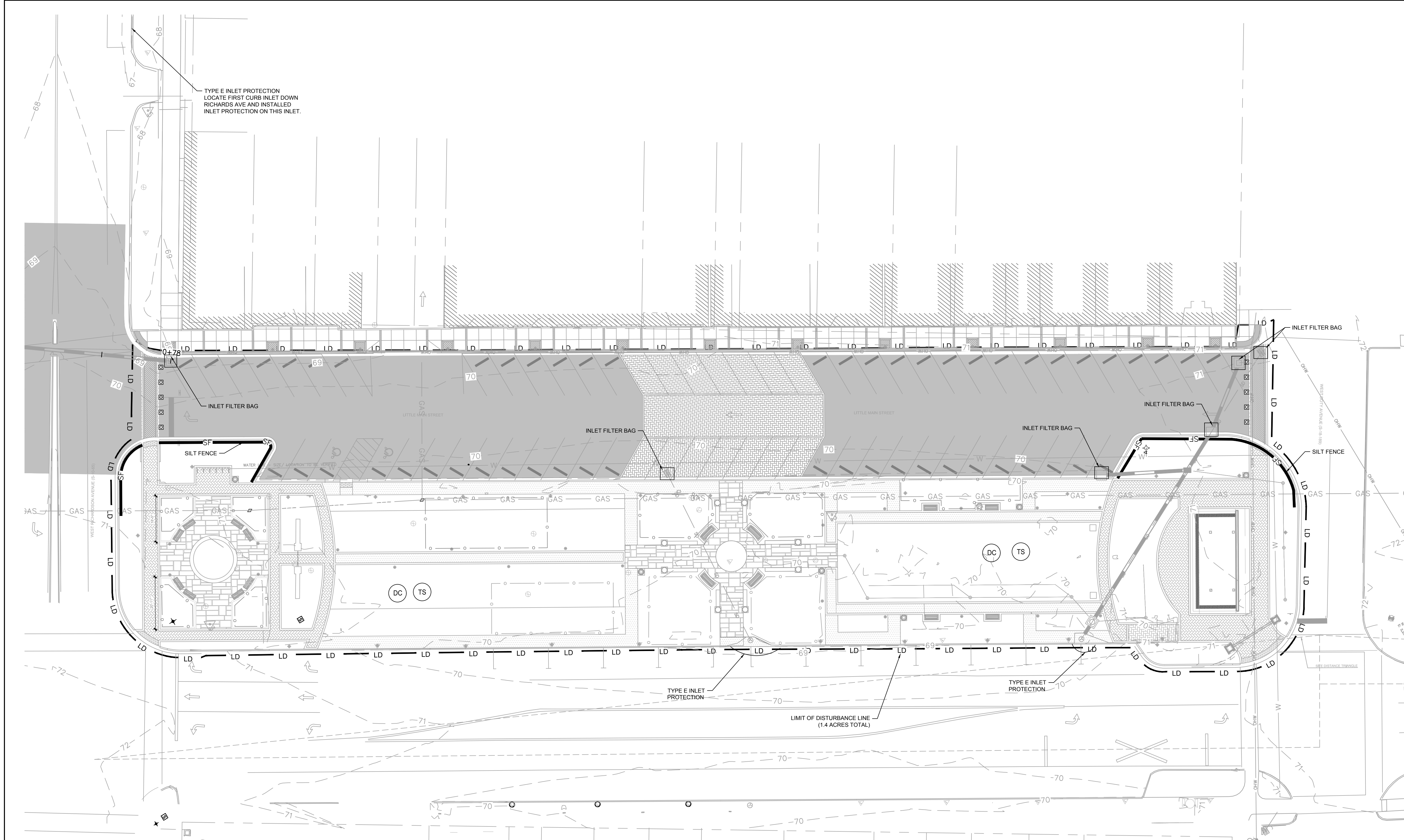
EROSION AND SEDIMENT CONTROL PLAN

Project No. Scale

178420699 1" = 20'

Drawing No. Sheet Revision

C5 6 of 26 0



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Consultants

Legend

	BRICK PAVERS
	SALT FINISH CONCRETE
	BLUESTONE PAVING
	ASPHALT PAVEMENT

Notes

- ALL ANGLES ARE 90° DEGREES UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION. ANY DAMAGE TO THE UTILITIES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL REVIEW THE EXISTING SITE CONDITIONS PRIOR TO BIDDING AND IF ANY DISCREPANCIES ARE FOUND, THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT.
- THE LIMIT OF WORK IS CONFINED TO AREAS WITHIN THE CLEARING LIMITS UNLESS OTHERWISE INDICATED.
- THE CONTRACTOR SHALL USE THIS DRAWING FOR STAKE OUT OF ALL SITE ELEMENTS IN THE FIELD AND SHALL OBTAIN APPROVAL FROM THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR FINE GRADING AND PROVIDING A SMOOTH TRANSITION INTO EXISTING GRADES. GRADE TO PREVENT PONDING AND TO PROVIDE POSITIVE DRAINAGE FROM STRUCTURES.

Revision	By	Appd.	YY.MM.DD
FOR BID	KV	JLL	18.01.24
DESIGN DEVELOPMENT	KV	JLL	17.08.24
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Permit-Seal



Client/Project
Town of Summerville

HUTCHINSON SQUARE IMPROVEMENTS - PHASE II
BID SET - PARK

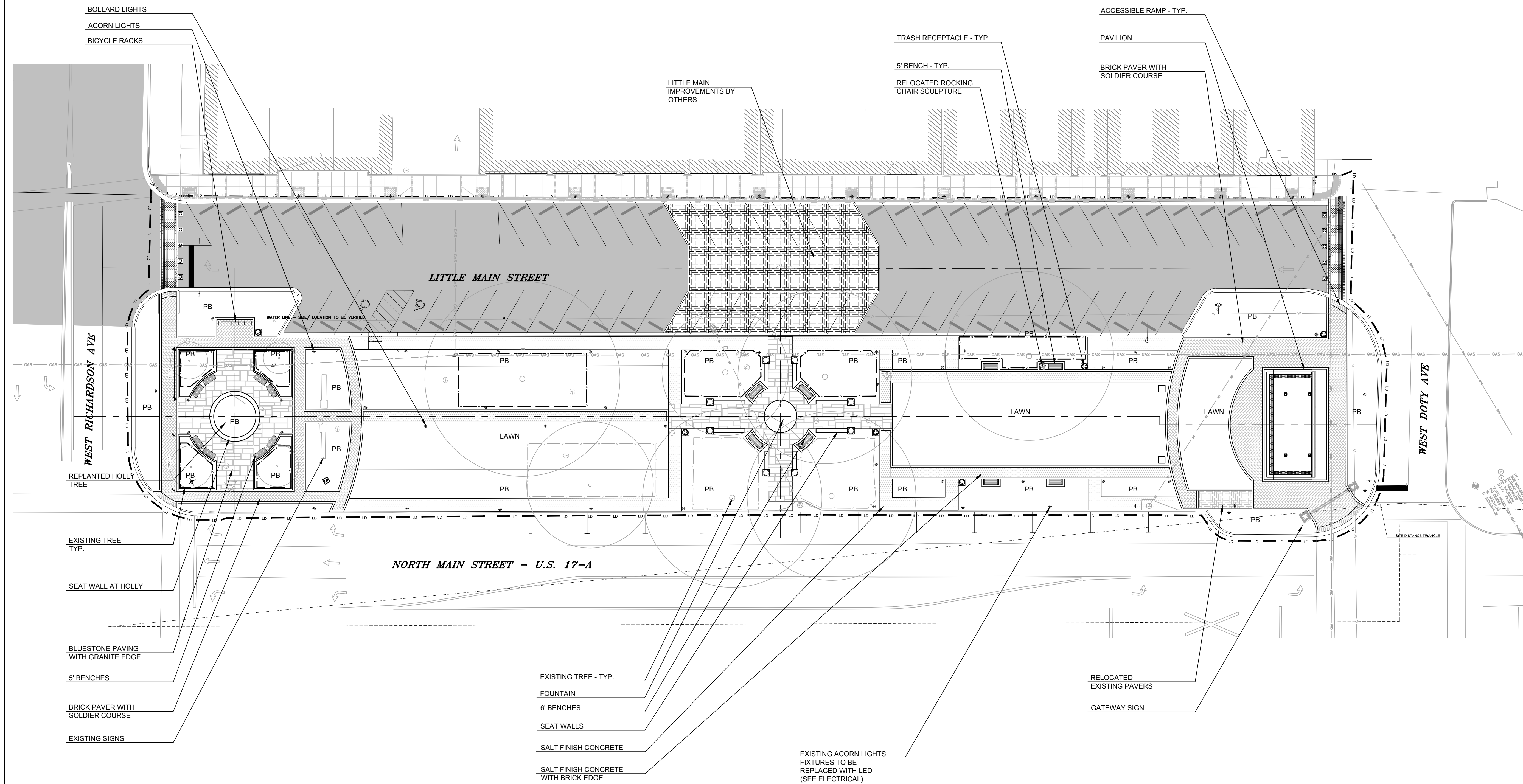
Summerville, SC

Title

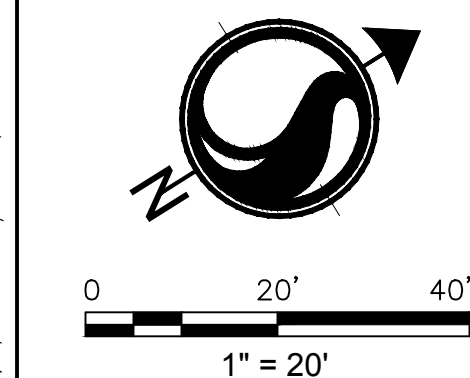
OVERALL SITE LAYOUT & KEY PLAN

Project No.	Scale
178420699	

Drawing No.	Sheet	Revision
C7		



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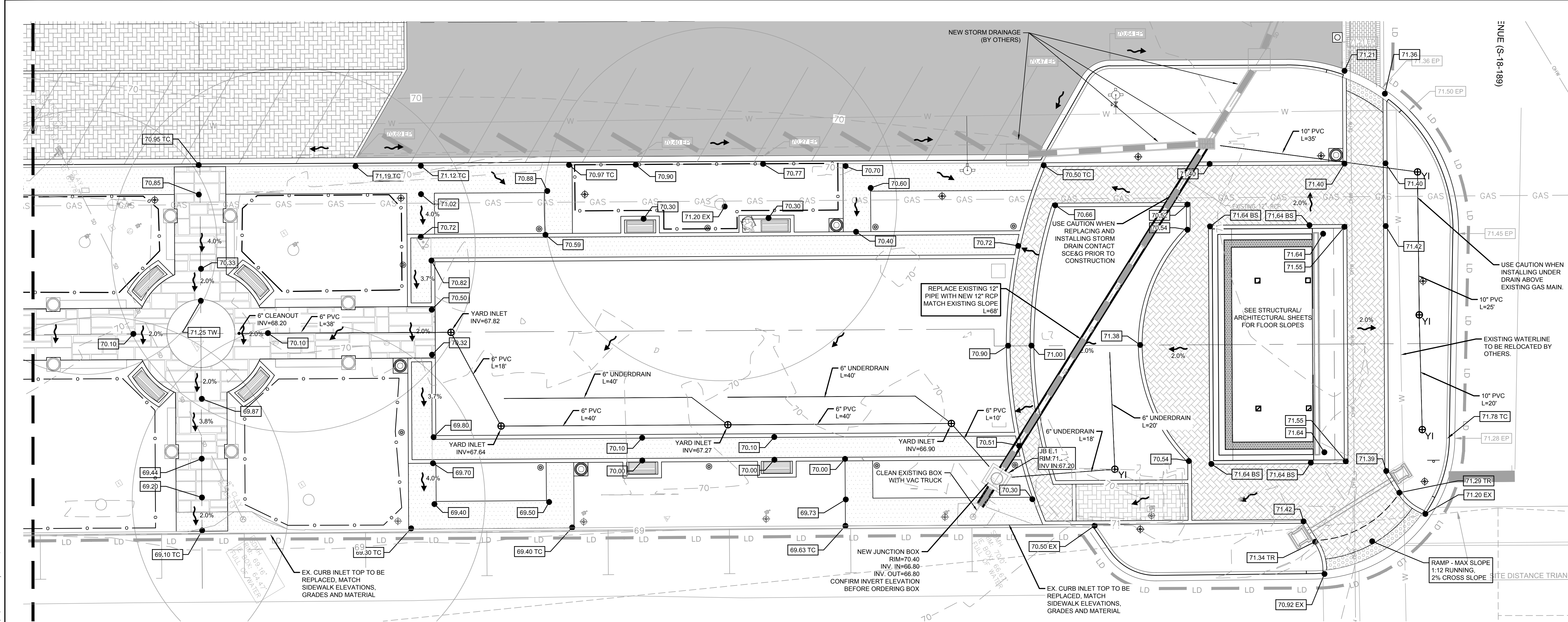
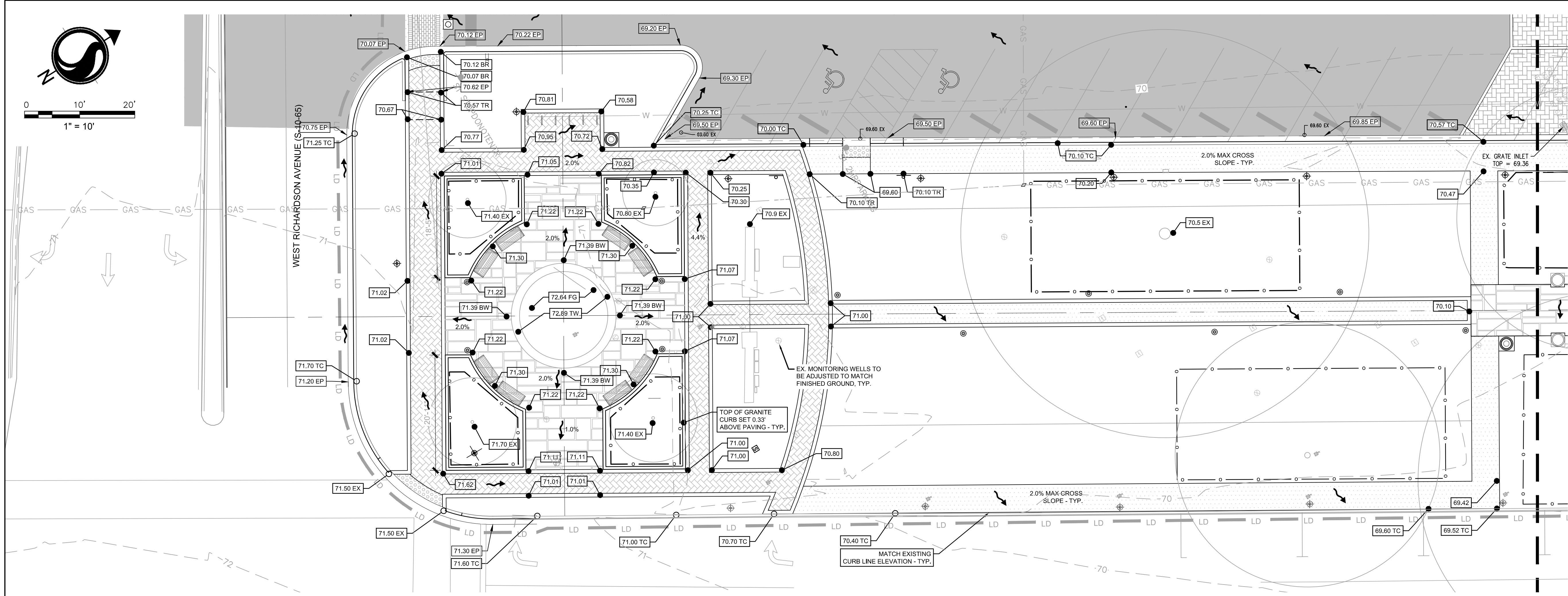
Consultants

Legend

- XEP - EXISTING PAVEMENT ELEVATION
- TC - TOP OF CURB
- TR - TOP OF RAMP
- BR - BOTTOM OF RAMP
- BS - BOTTOM OF STEP
- TW - TOP OF WALL
- BW - BOTTOM OF WALL
- YI - YARD INLET

Notes

1. NEW SIDEWALK IS TO COMPLY WITH THE MOST RECENT VERSION OF THE ADA STANDARDS FOR ACCESSIBLE DESIGN. THE CROSS SLOPE OF THE SIDE WALK SHALL NOT EXCEED 1:48 (2%). THE HORIZONTAL SLOPE SHALL NOT EXCEED 1:20 (5%).
2. ALL AREAS SHALL HAVE POSITIVE DRAINAGE. SLOPE AS NEEDED TO AVOID PONDING. NOTIFY CIVIL ENGINEER OF ANY DISCREPANCY BETWEEN SITE CONDITIONS AND CONSTRUCTION PLANS.



Revision	By	Appd.	YY.MM.DD

FOR BID	KV	JLL	18.01.24
DESIGN DEVELOPMENT			
Issued			

File Name:	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Permit-Seal

Client/Project
Town of Summerville

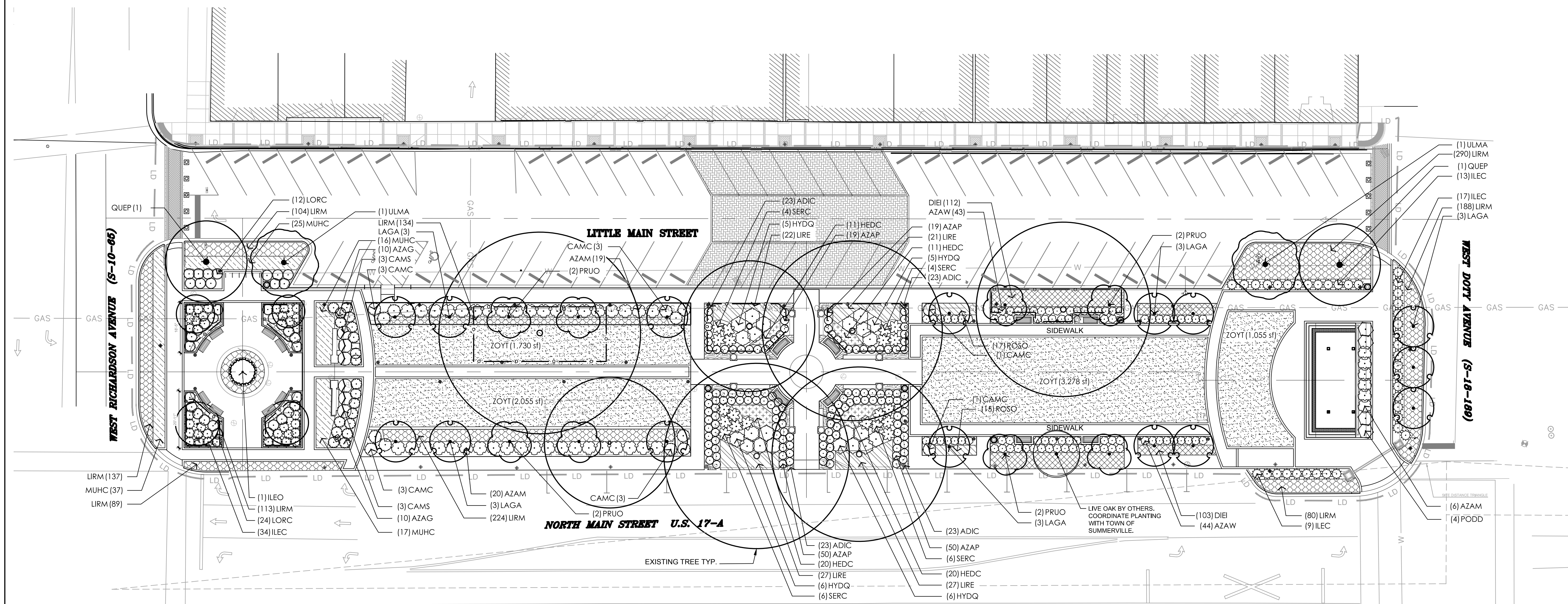
HUTCHINSON SQUARE IMPROVEMENTS - PHASE II
BID SET - PARK

Summerville, SC

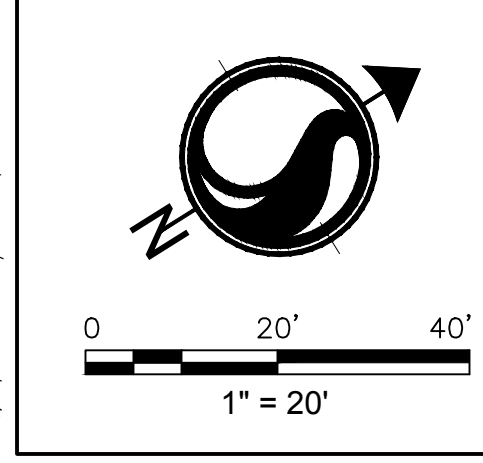
Title
GRADING PLAN

Project No.	Scale	
178420699	1" = 10'	
Drawing No.	Sheet	Revision
C10	11 of 26	0

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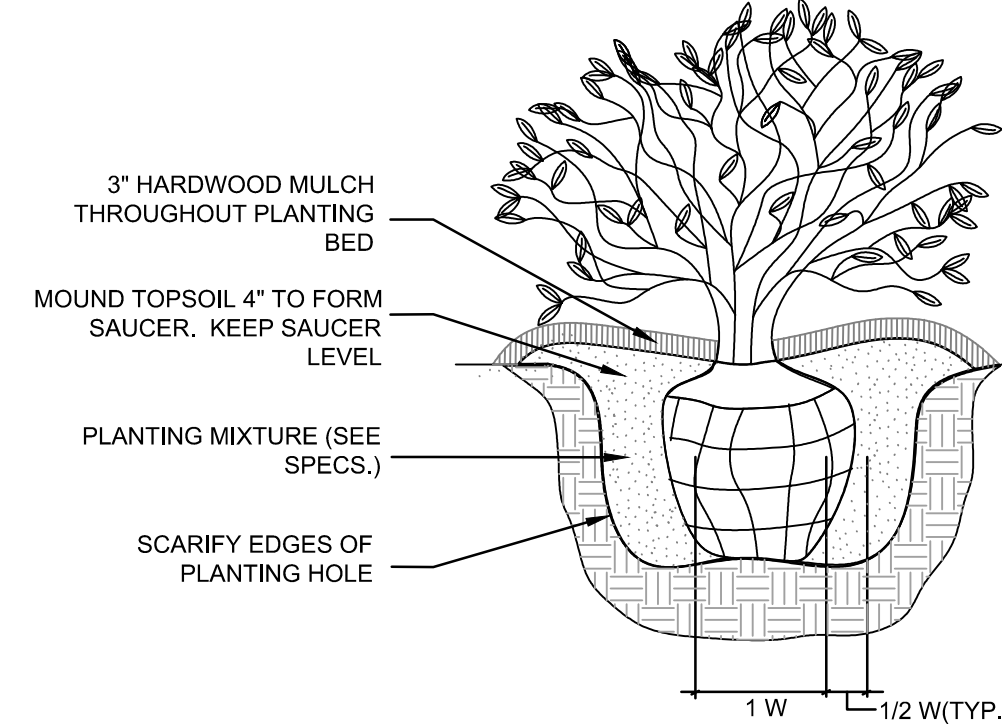
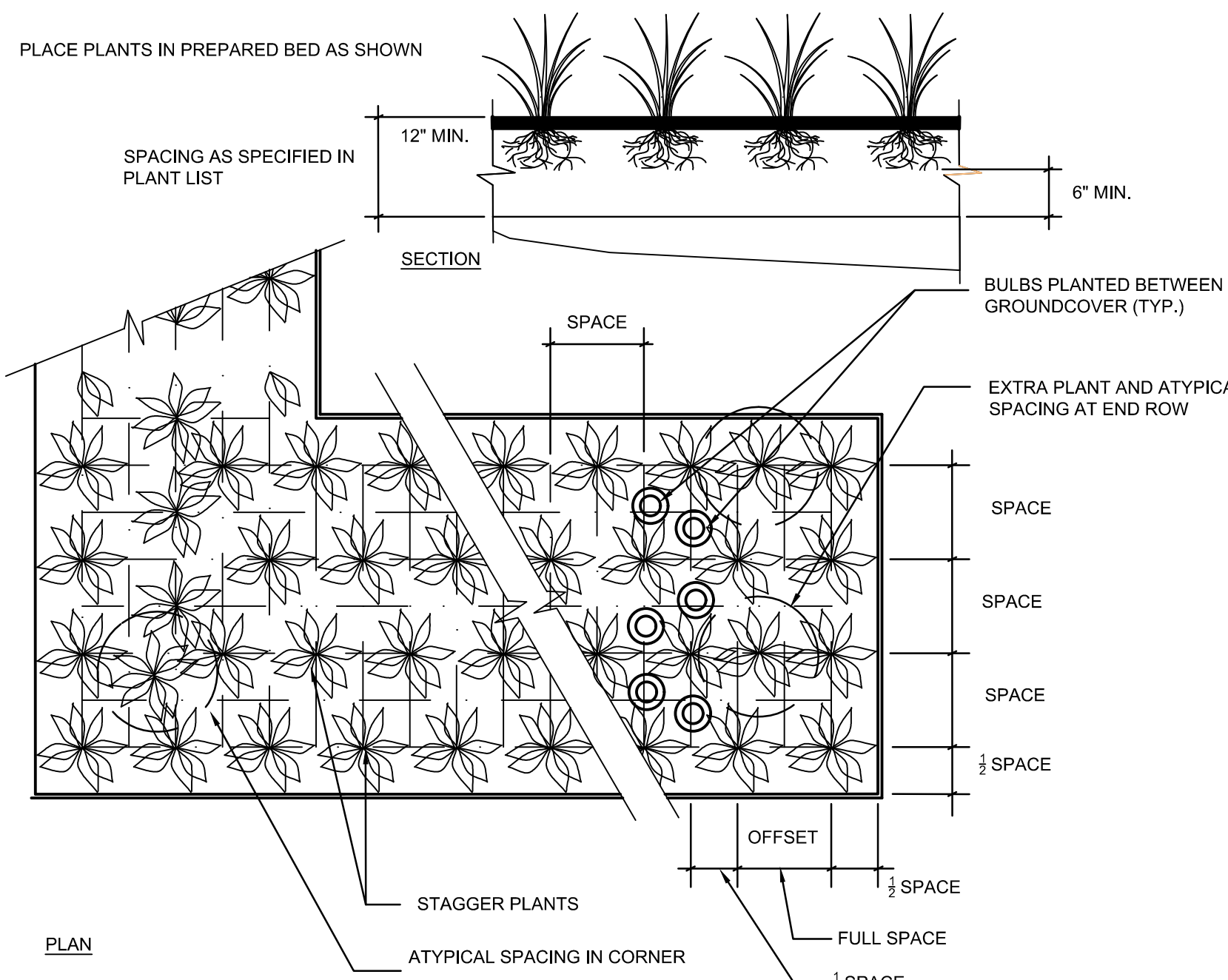


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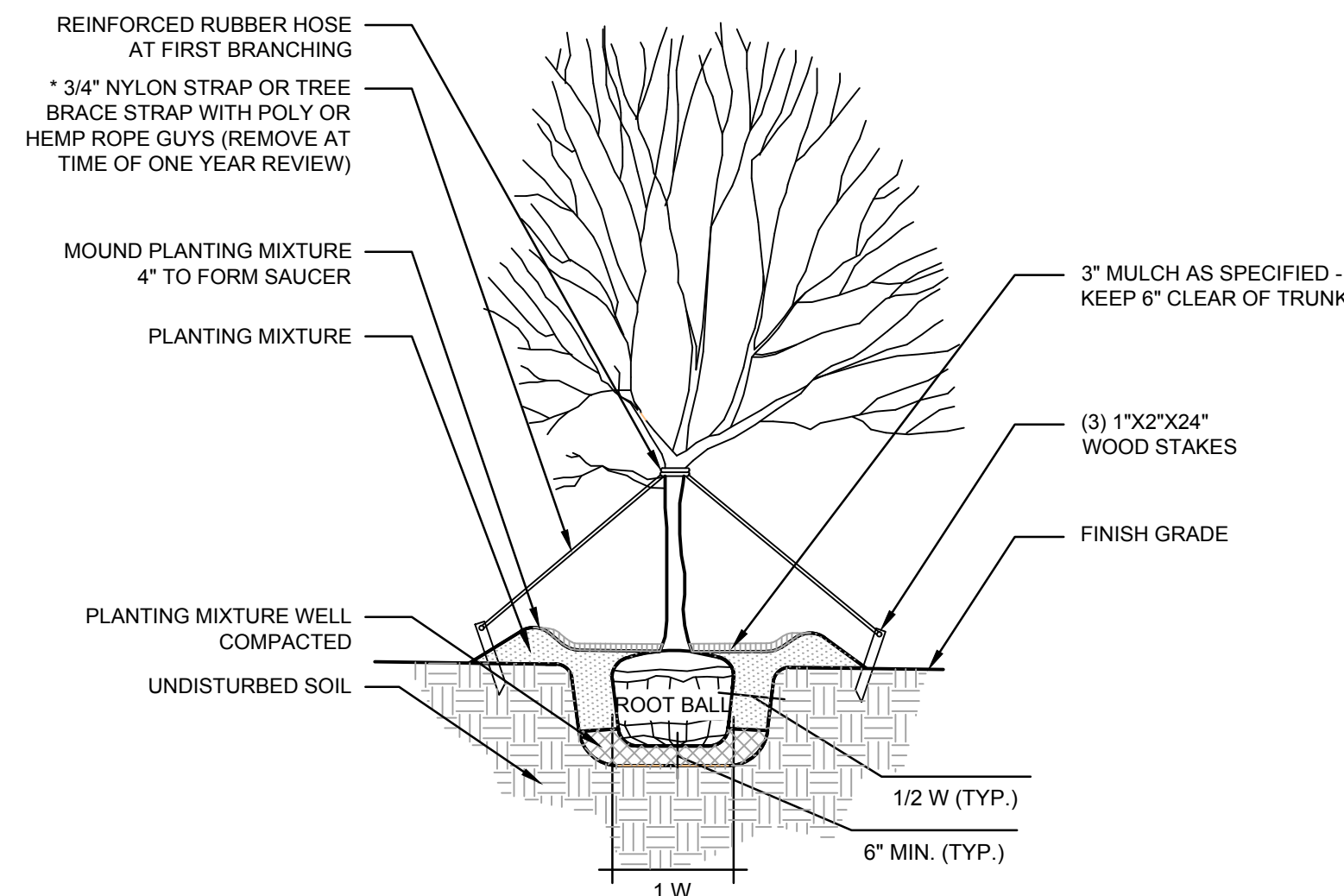


ORIGINAL SHEET - ARCH D





- NOTES:
1. REMOVE CONTAINERIZED PLANTS FROM THEIR CONTAINER.
 2. REMOVE BURLAP, TWINE, ROPE AND BASKET FROM 1/3 TOP OF ROOTBALL IF BOUND IN BURLAP.
 3. PRUNE ROOTS IF ROOTBOUND.
 4. REMOVE ALL CONTAINERS AND NON-BIODEGRADABLE BURLAP.
 5. WHEN BACKFILLING PLANT PIT, PLACE PLANTING SOIL IN TWO LIFTS. AFTER FIRST LIFT, PUDDLE SOIL IN WITH WATER TO REMOVE ALL AIR POCKETS. PLACE SECOND LIFT AND REPEAT. CONTINUE TO PUDDLE AND FILL AS NECESSARY.

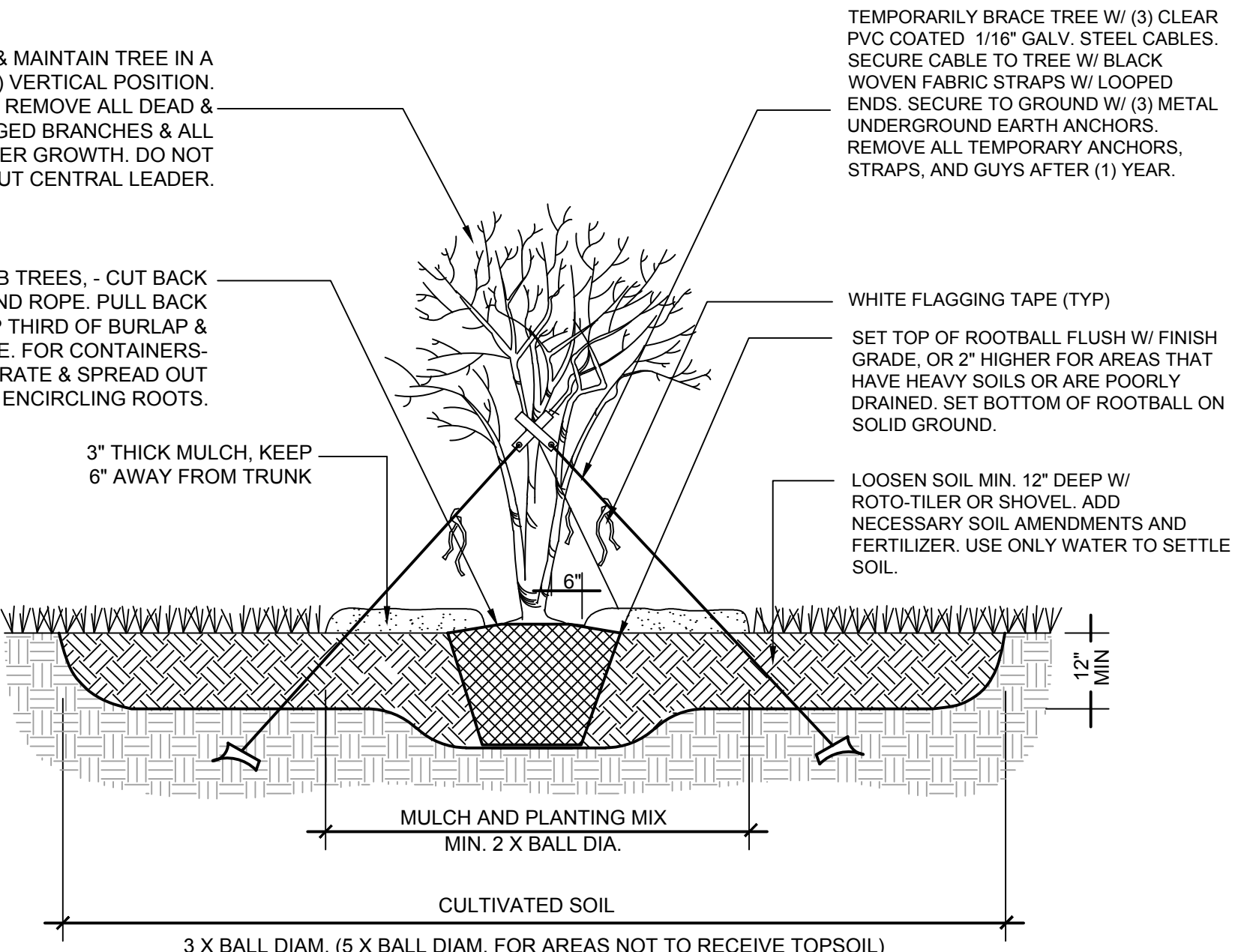


- NOTES:
1. NEVER CUT A CENTRAL LEADER. PRUNE BRANCHES ONLY IF BROKEN OR DAMAGED.
 2. REMOVE TOP 1/4 OF BURLAP, TWINE, ROPE, AND LOOSEN TOP OF BASKET FROM ROOT BALL.
 3. TOP OF ROOT BALL TO BE 2\"/>

1 GROUNDCOVER PLANTING DETAIL
SCALE: NTS

2 SHRUB PLANTING DETAIL
SCALE: NTS

3 SINGLE STEM PLANTING DETAIL
SCALE: NTS



- NOTES:
1. IF TREE IS MULT-STEM, MORE THAN ONE STEM MAY NEED GUYING.
 2. LOCATE GUYS WITHIN PLANT BED.
 3. ALL CABLE CLAMPS & BOLTS SHALL BE RUST RESISTANT.

4 MULTI-TRUNK PLANTING DETAIL
SCALE: NTS

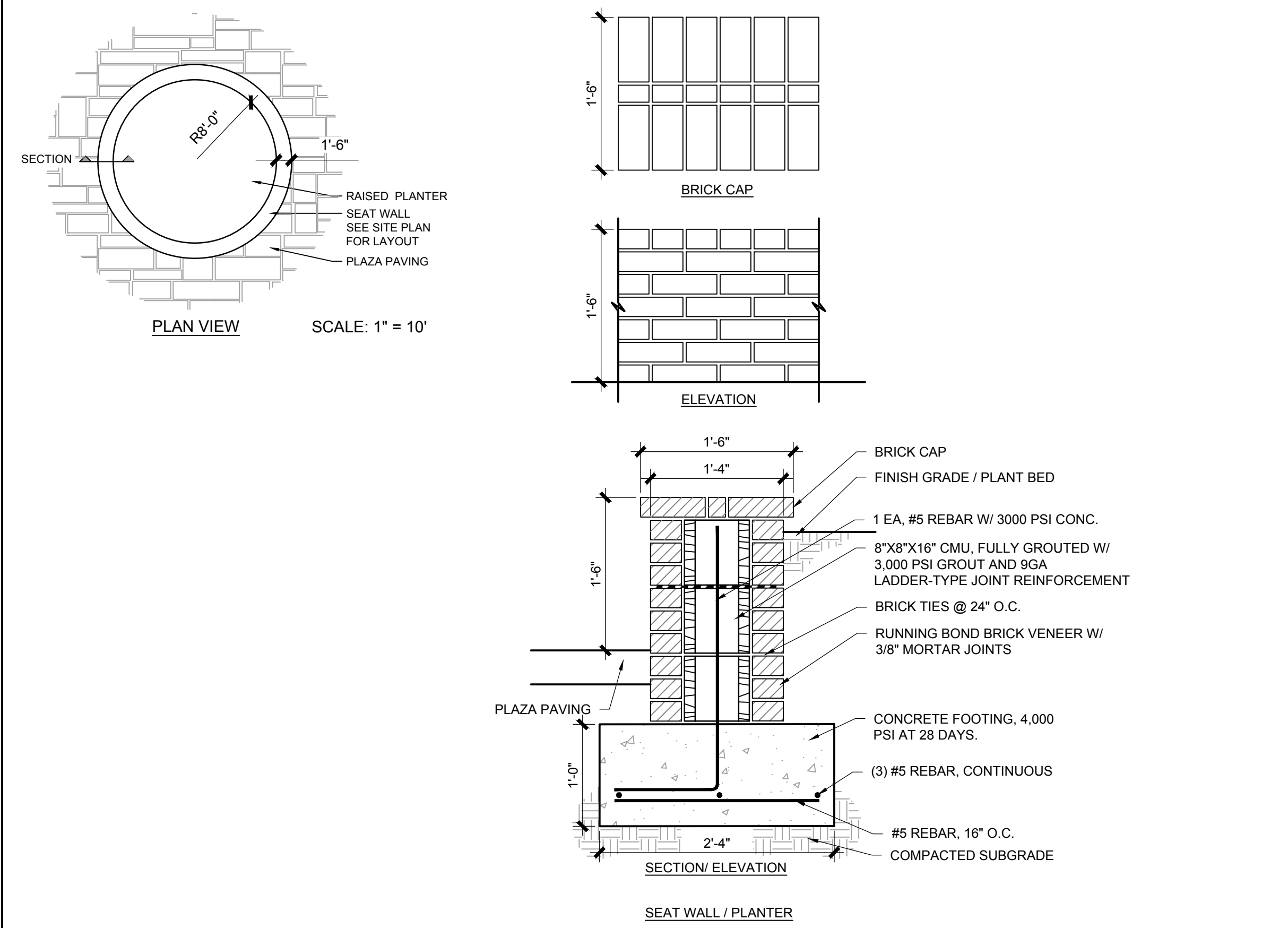
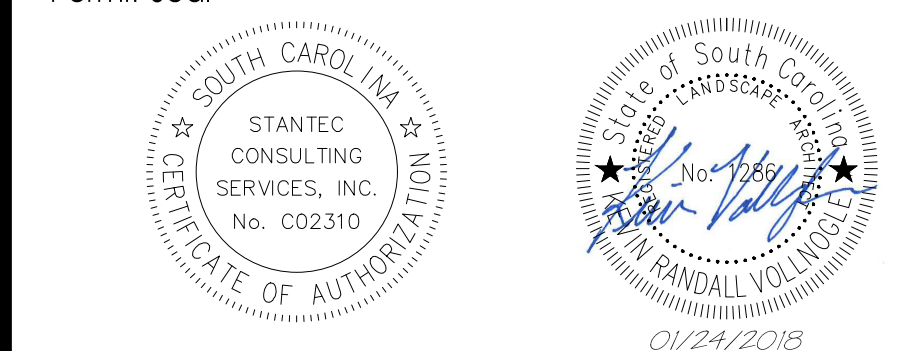
PLANT SCHEDULE							
TREES	CODE	QTY	BOTANICAL NAME / COMMON NAME	CONT	CAL	SIZE	SPREAD
	ILEO	1	ILEX OPACA 'SATYR HILL' / SATYR HILL AMERICAN HOLLY	B & B	5\"/>		

GENERAL LANDSCAPE NOTES

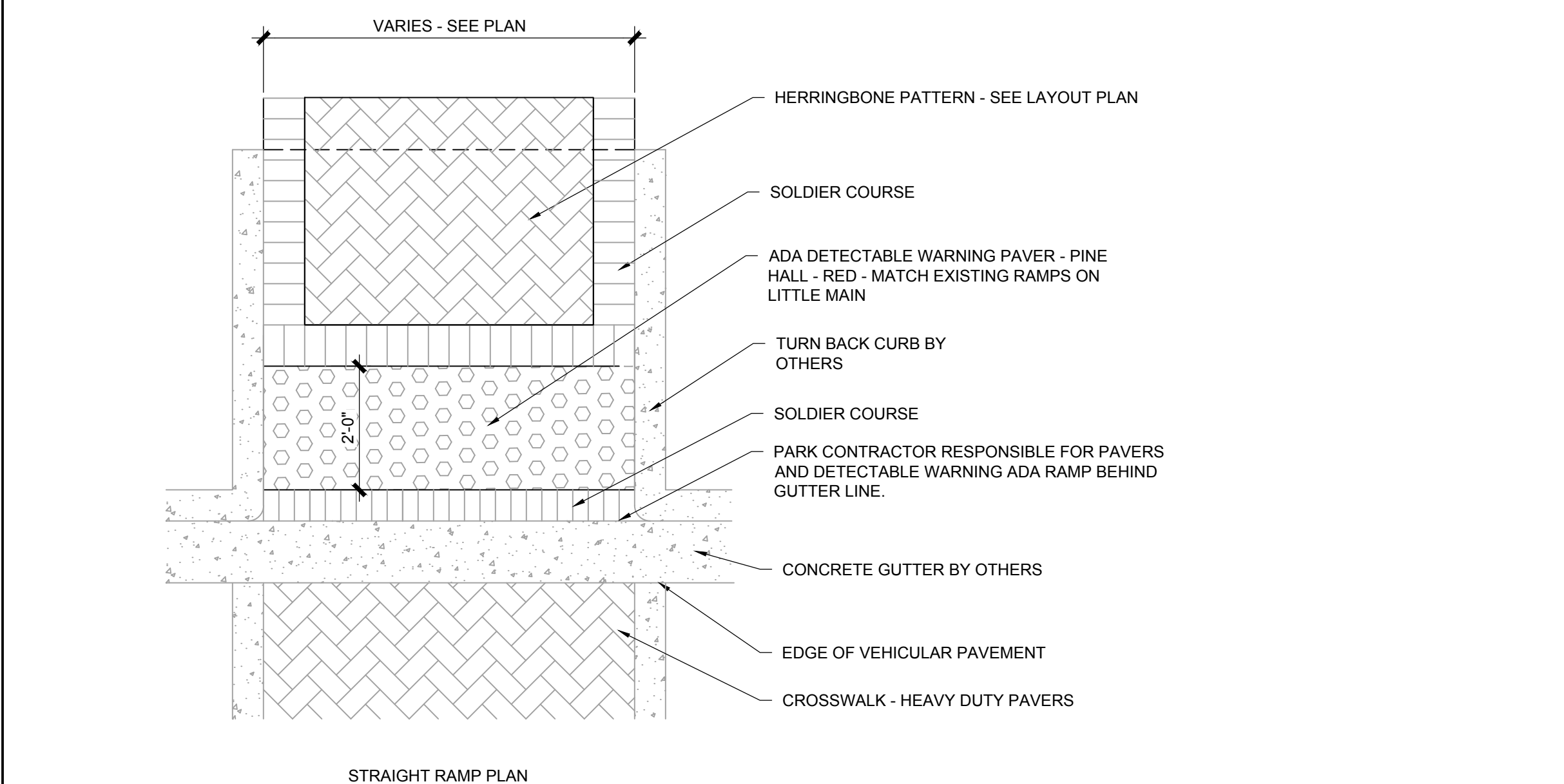
1. LANDSCAPE CONTRACTOR (CONTRACTOR) SHALL VISIT SITE, INSPECT EXISTING CONDITIONS, AND REVIEW PROPOSED PLANTINGS AND RELATED WORK. LANDSCAPE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS ON PROPERTY WITH THE GENERAL CONTRACTOR AND BY CALLING LOCAL ONE-CALL OR DIG-RITE PRIOR TO STAKING PLANT LOCATIONS.
2. IN CASE OF DISCREPANCY BETWEEN PLAN AND PLANT LIST, PLAN SHALL GOVERN QUANTITIES. CONTACT LANDSCAPE ARCHITECT AND/OR OWNER'S REPRESENTATIVE WITH ANY CONCERNS.
3. LANDSCAPE CONTRACTOR TO COORDINATE THE PHASES OF CONSTRUCTION AND PLANTING INSTALLATIONS WITH OTHER CONTRACTORS WORKING ON SITE.
4. WHERE EXISTING TREES AND/OR SIGNIFICANT SHRUB MASSINGS ARE FOUND ON SITE, WHETHER SHOWN ON THE DRAWING OR NOT, THEY SHALL BE PROTECTED AND SAVED UNLESS NOTED TO BE REMOVED AND/OR ARE IN AN AREA TO BE GRADED. ANY QUESTIONS REGARDING WHETHER PLANT MATERIAL SHOULD REMAIN OR NOT SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT AND/OR OWNER'S REPRESENTATIVE PRIOR TO REMOVAL.
5. ALL EXISTING TREES TO REMAIN TO BE FERTILIZED AND PRUNED TO REMOVE DEAD WOOD AND DAMAGED OR RUBBING BRANCHES.
6. NO PLANT MATERIAL SUBSTITUTIONS WILL BE ACCEPTED UNLESS APPROVAL IS REQUESTED OF THE LANDSCAPE ARCHITECT BY THE LANDSCAPE CONTRACTOR PRIOR TO INSTALLATION.
7. ALL PLANT MATERIAL SHALL COMPLY WITH THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, AMERICAN ASSOCIATION OF NURSERYMEN.
8. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ON-GOING MAINTENANCE OF ALL NEWLY INSTALLED MATERIALS UNTIL TIME OF OWNER ACCEPTANCE. ANY ACTS OF VANDALISM OR DAMAGE WHICH MAY OCCUR PRIOR TO OWNER ACCEPTANCE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
9. WARRANTY FOR LANDSCAPE MATERIALS SHALL BEGIN ON THE DATE OF ACCEPTANCE BY THE OWNER'S REPRESENTATIVE AFTER THE COMPLETION OF PLANTING OF ALL LANDSCAPE MATERIALS. NO PARTIAL ACCEPTANCE WILL BE CONSIDERED. LANDSCAPE CONTRACTOR SHALL PROVIDE A WRITTEN REQUEST FOR THE OWNER'S ACCEPTANCE INSPECTION. REMOVE AND REPLACE DEAD PLANT MATERIAL (25% + DEAD) IMMEDIATELY UNLESS REQUIRED TO PLANT IN THE SUCCEEDING PLANTING SEASON. A LIMIT OF ONE REPLACEMENT OF EACH TREE AND SHRUB WILL BE REQUIRED, EXCEPT FOR LOSSES CAUSED BY CONTRACTOR'S ERRORS.
10. CONTRACTOR WILL SUPPLY FINISHED GRADE AND EXCAVATE AS NECESSARY TO SUPPLY 4\"/>

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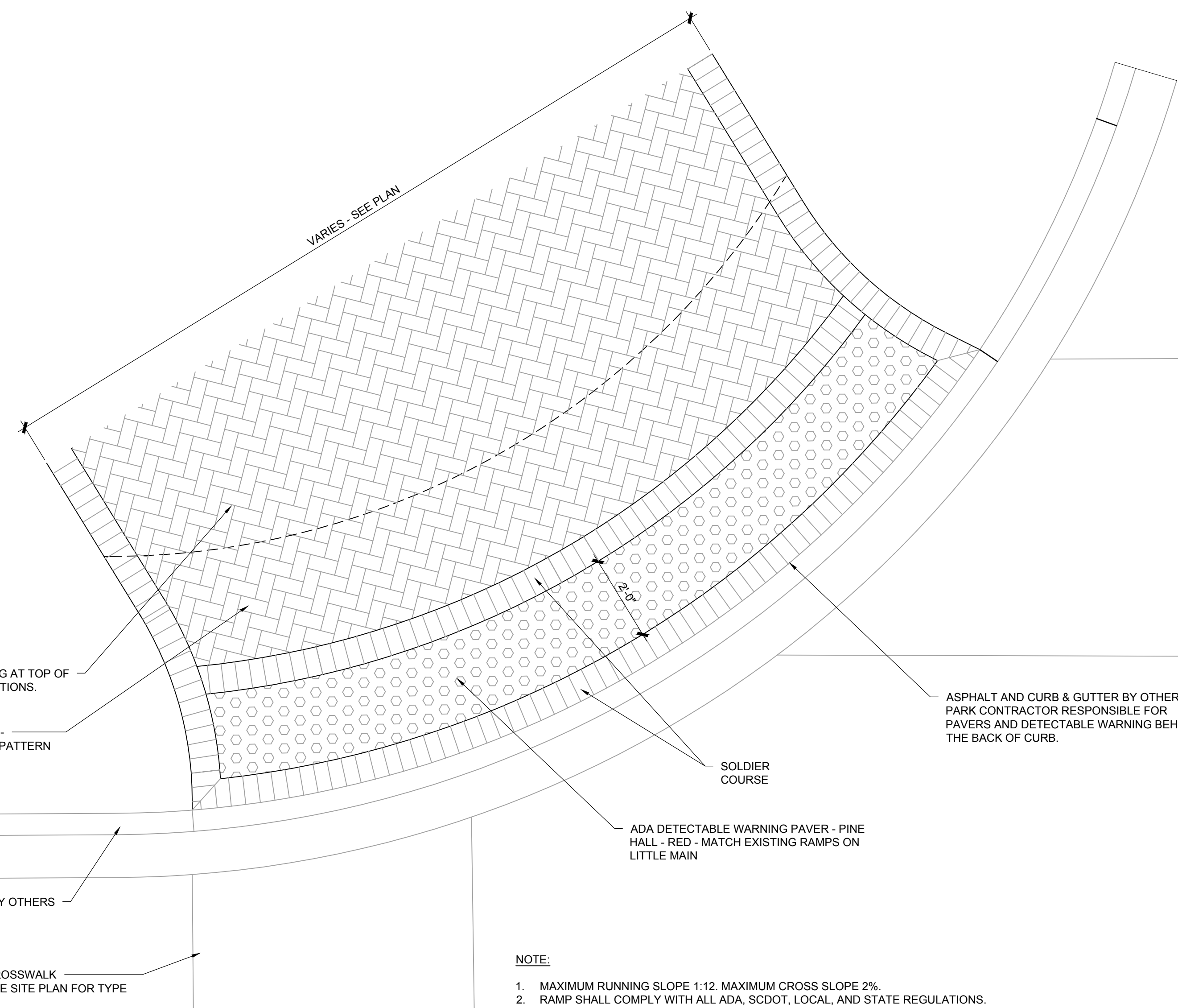
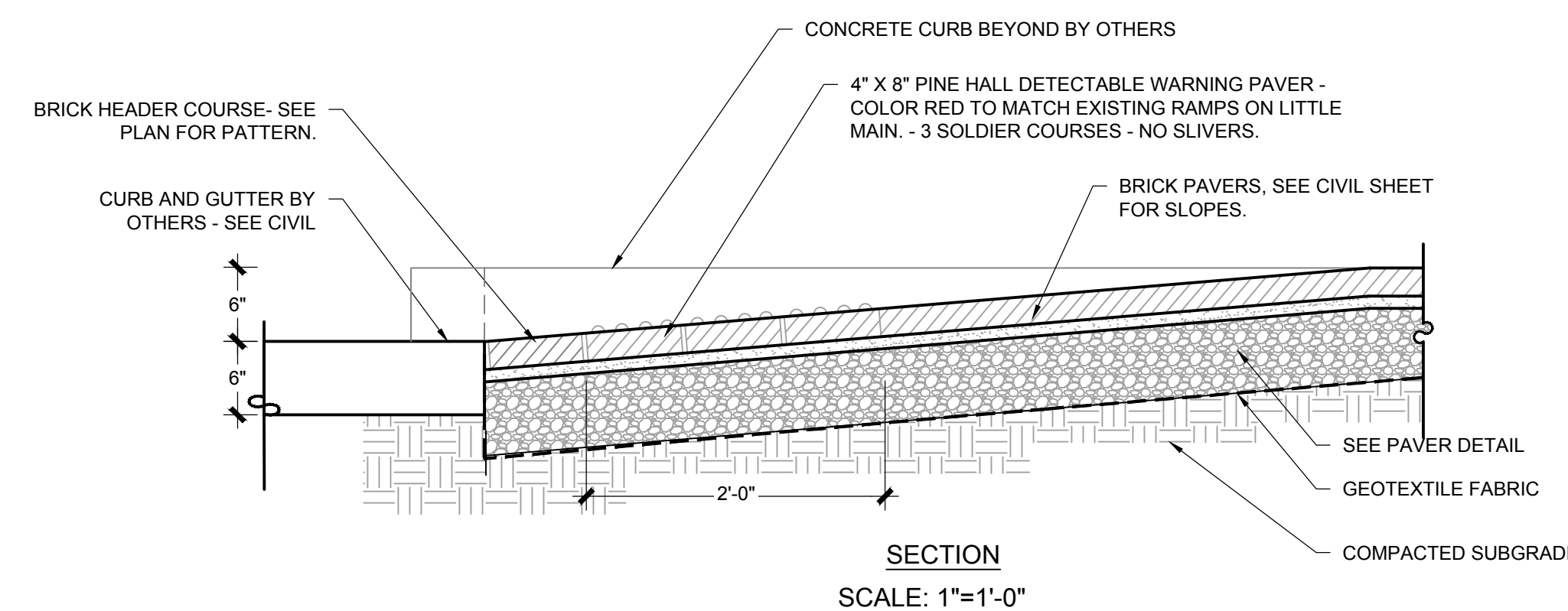


1 RAISED PLANTER / SEAT WALL
SCALE: 1"=1'-0"



- NOTES:
1. FOLLOW DETECTABLE WARNING MATERIAL MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SCDOT STANDARD DRAWINGS.
 2. USE PAVERS ONLY IN LOCATIONS OUTSIDE OF VEHICULAR TRAFFIC.
 3. MINIMIZE THE USE OF FIELD CUT PIECES UNLESS SPECIFIED IN THE PLANS OR SPECIAL PROVISIONS. INSTALL ALL FIELD CUT EDGES ALONG ONLY ONE SIDE OF THE WARNING PATTERN. CUT WARNING SURFACE TO THE MEET THE REQUIRED GEOMETRY OF THE RAMP WHILE MINIMIZING THE CUTTING OF DOMES.
 4. THE BASE OF EACH PAVER IS TO BE TIGHT AGAINST THE ADJOINING PAVER.
 5. APPLY SEALANT SPECIFIED BY MANUFACTURER AROUND ALL JOINTS AND PERIMETER OF WARNING PATTERN.
 6. MAX RUNNING SLOPE 1:12. MAX CROSS SLOPE 2%. RAMP AND LANDING SHALL MEET ALL ADA, LOCAL AND STATE REGULATIONS.

2 RAMP DETAILS
SCALE: 1/2"=1'-0"

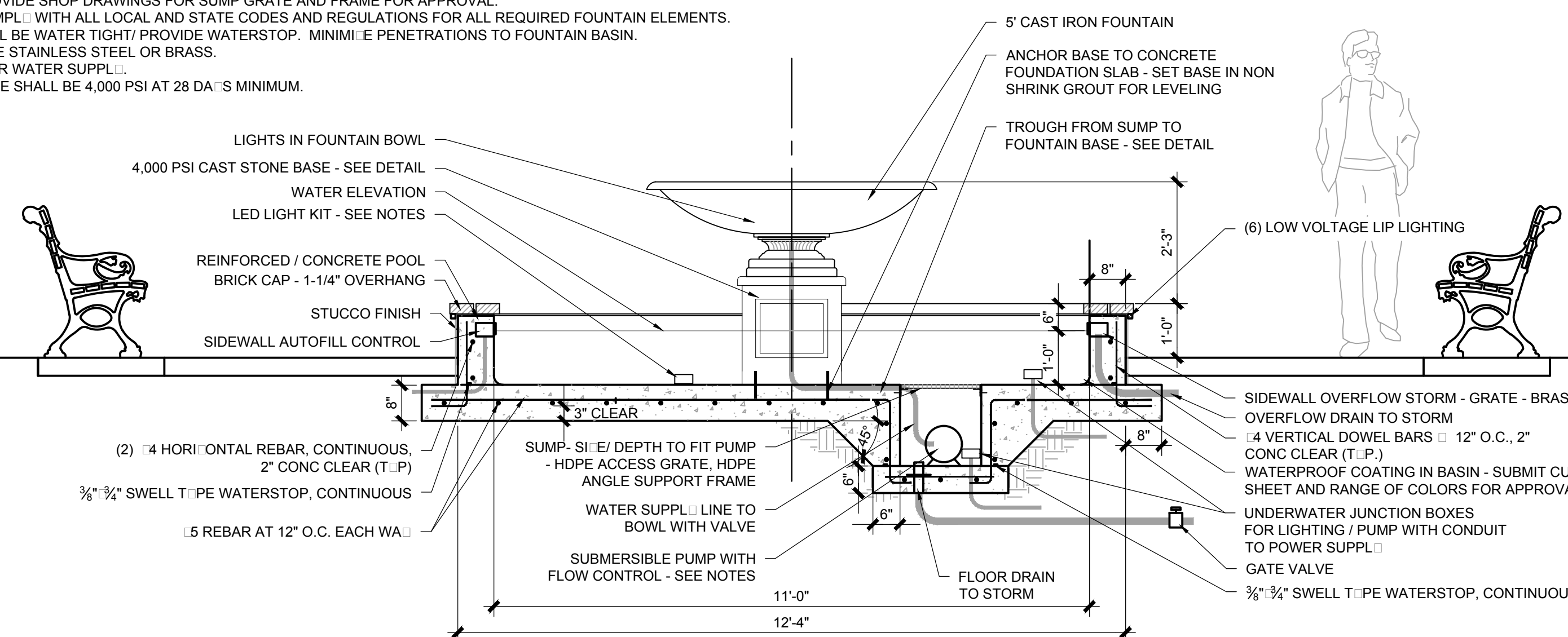


- NOTE:
1. MAXIMUM RUNNING SLOPE 1:12. MAXIMUM CROSS SLOPE 2%.
 2. RAMP SHALL COMPLY WITH ALL ADA, SCDOT, LOCAL, AND STATE REGULATIONS.

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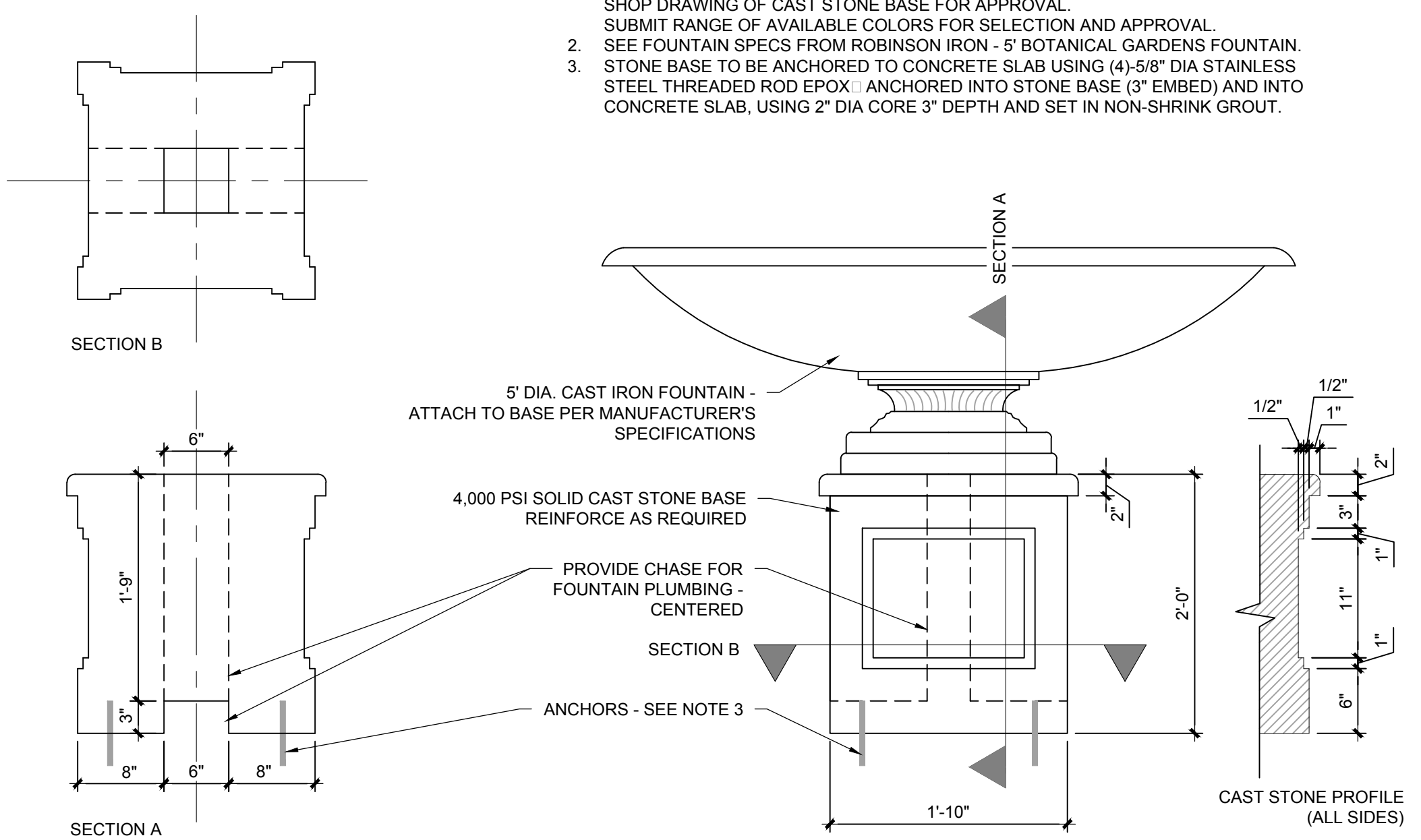
- NOTES:
1. FOUNTAIN BOWL B: ROBINSON IRON - 5' BOTANICAL GARDENS FOUNTAIN. COLOR: VERDE GRIS. INSTALL PER MANUFACTURERS SPECIFICATIONS. INCLUDE BOWL DRAIN PLUG AND ELECTRICAL CORD SEAL IN BOWL. SUBMIT CUT SHEET AND SHOP DRAWINGS FOR APPROVAL. WWW.ROBINSONIRON.COM
 2. CONTRACTOR SHALL COORDINATE ELECTRICAL SUPPLY TO FOUNTAIN.
 3. CONTRACTOR SHALL PROVIDE AUTO-FILL KIT MODEL AF-1000 3/8" B: ATLANTIC OR APPROVED EQUAL.
 4. CONTRACTOR SHALL PROVIDE OVERFLOW DRAIN - SUBMIT CUT SHEETS AND SHOP DRAWINGS FOR APPROVAL.
 5. CONTRACTOR SHALL SIZE PUMP WITH VARIABLE CONTROL TO PROVIDE CONSTANT RIBBON OF WATER OVER ALL EDGES OF FOUNTAIN BOWL. SUBMIT CUT SHEET AND DATA FOR PUMP PERFORMANCE. PUMP SHALL PROVIDE 1200 GAL. PER HOUR PER LINEAR FOOT OF BOWL EDGE.
 6. CONTRACTOR SHALL PROVIDE CUT SHEETS FOR LOW VOLTAGE FOUNTAIN LIGHTING SYSTEM TO INCLUDE:
 - 6.1. LOW VOLTAGE TRANSFORMER SI - FA-H20-J B: FOCUS INDUSTRIES OR APPROVED EQUAL. WWW.FOCUSINDUSTRIES.COM
 - 6.2. UNDERWATER JUNCTION BOXES - FA-H20-J B: FOCUS INDUSTRIES OR APPROVED EQUAL. QUANTITY AS REQUIRED. WWW.FOCUSINDUSTRIES.COM
 - 6.3. (5) UNDERWATER LED LIGHTING - SL11-LED-M B: FOCUS INDUSTRIES OR APPROVED EQUAL. PROVIDE COLOR LENSES FOR LIGHTS. WWW.FOCUSINDUSTRIES.COM
 - 6.4. (6) BASIN LIP LIGHTING (OUTSIDE FOUNTAIN) - VISTA 4260 B: VISTA PROFESSIONAL OUTDOOR LIGHTING OR APPROVED EQUAL. WWW.VISTAPRO.COM
 7. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR SUMP GRATE AND FRAME FOR APPROVAL.
 8. CONTRACTOR SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND REGULATIONS FOR ALL REQUIRED FOUNTAIN ELEMENTS.
 9. ALL PENETRATIONS SHALL BE WATER TIGHT/ PROVIDE WATERSTOP. MINIMIZE PENETRATIONS TO FOUNTAIN BASIN.
 10. ALL FASTENERS SHALL BE STAINLESS STEEL OR BRASS.
 11. SEE IRRIGATION PLAN FOR WATER SUPPLY.
 12. CAST-IN-PLACE CONCRETE SHALL BE 4,000 PSI AT 28 DAYS MINIMUM.



2 FOUNTAIN SECTION / ELEVATION

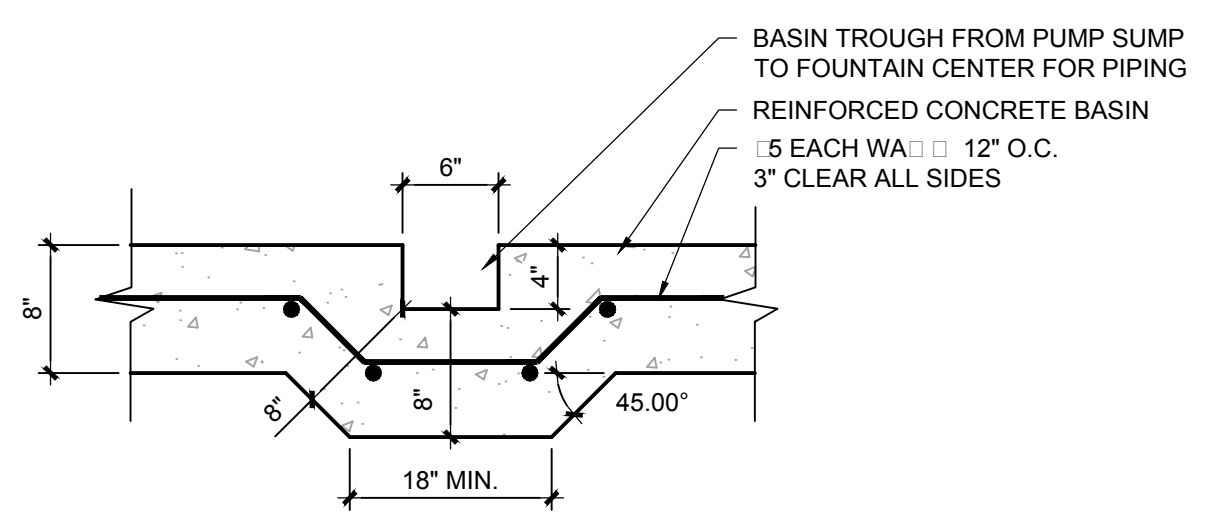
SCALE 1/2" = 1'-0"

- NOTES:
1. CONTRACTOR SHALL SUBMIT SEALED STRUCTURAL SHOP DRAWING OF CAST STONE BASE FOR APPROVAL. SUBMIT RANGE OF AVAILABLE COLORS FOR SELECTION AND APPROVAL.
 2. SEE FOUNTAIN SPECS FROM ROBINSON IRON - 5' BOTANICAL GARDENS FOUNTAIN.
 3. STONE BASE TO BE ANCHORED TO CONCRETE SLAB USING (4) 5/8" DIA STAINLESS STEEL THREADED ROD EPOXY ANCHORED INTO STONE BASE (3" EMBED) AND INTO CONCRETE SLAB, USING 2" DIA CORE 3" DEPTH AND SET IN NON-SHRINK GROUT.



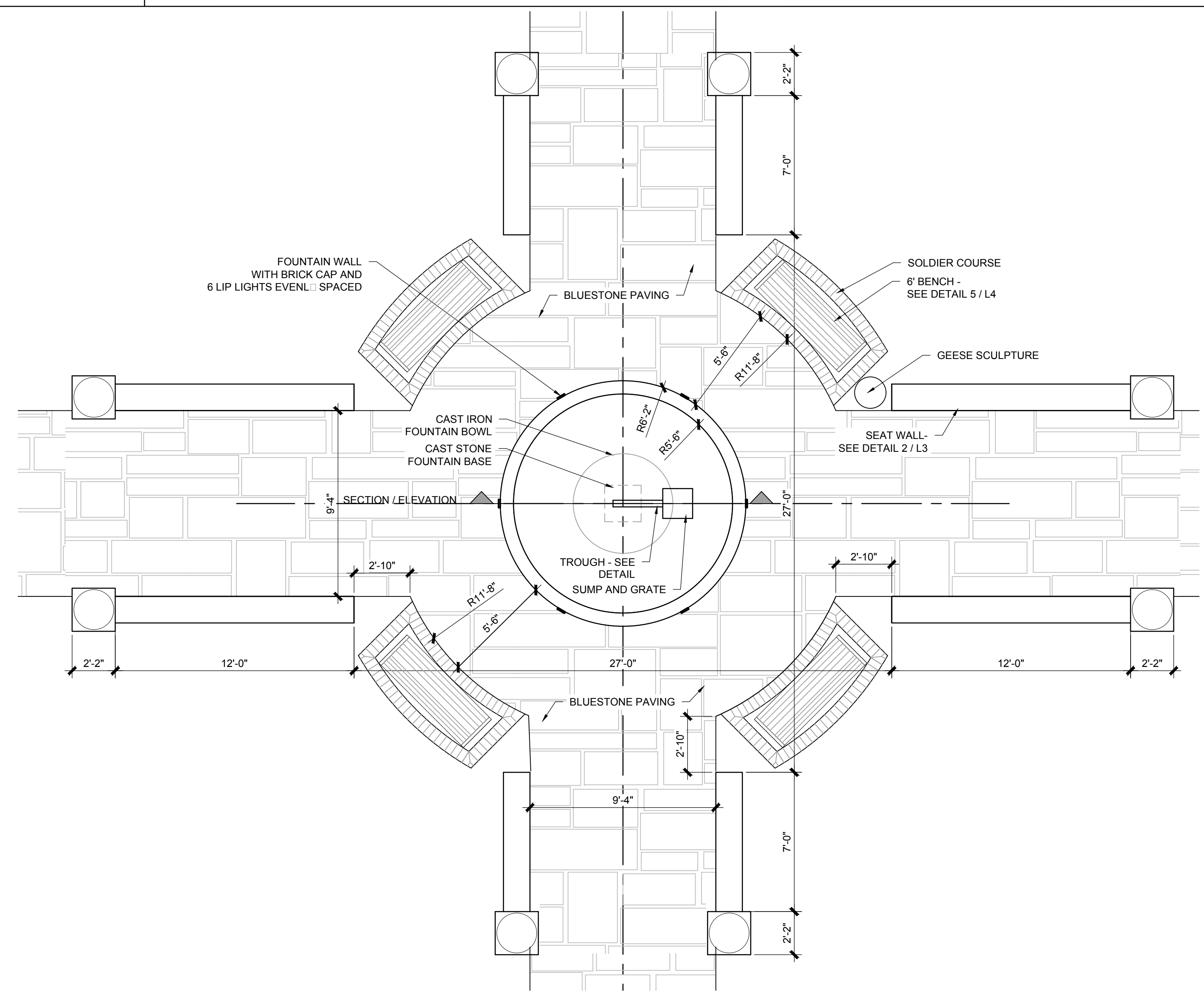
1 CAST STONE FOUNTAIN BASE

SCALE 1" = 1'-0"



3 TROUGH DETAIL

SCALE 1" = 1'-0"

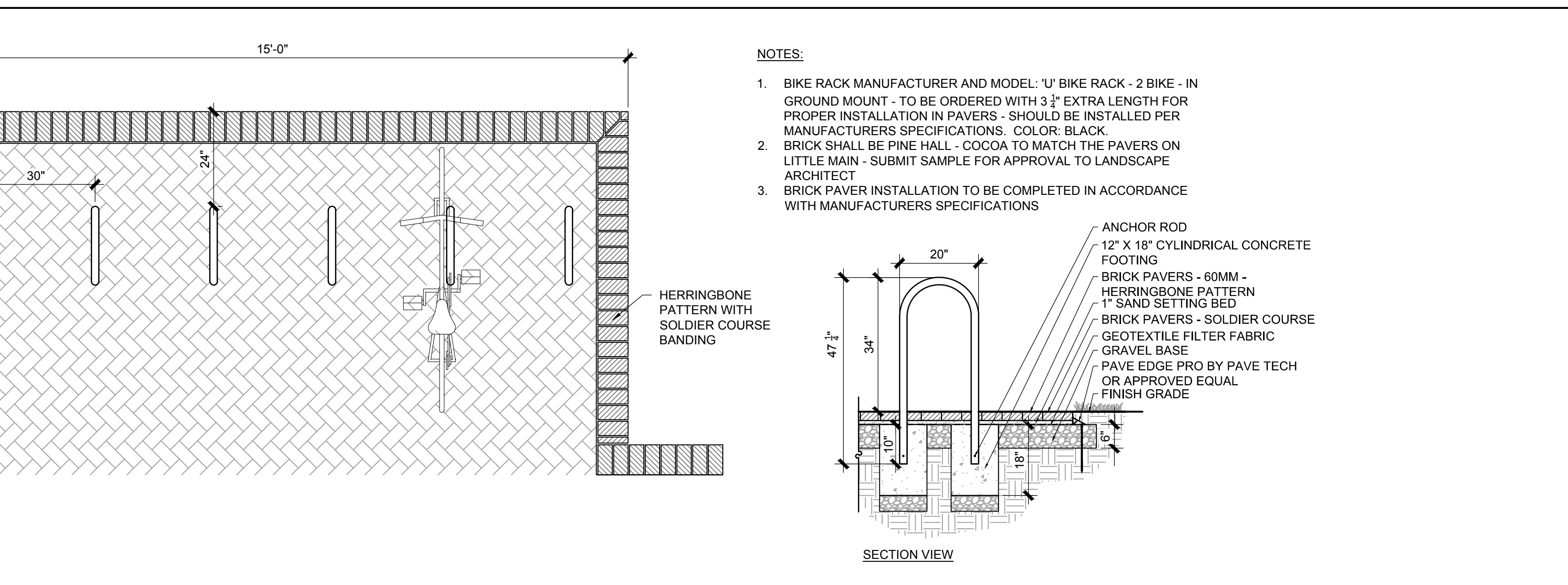
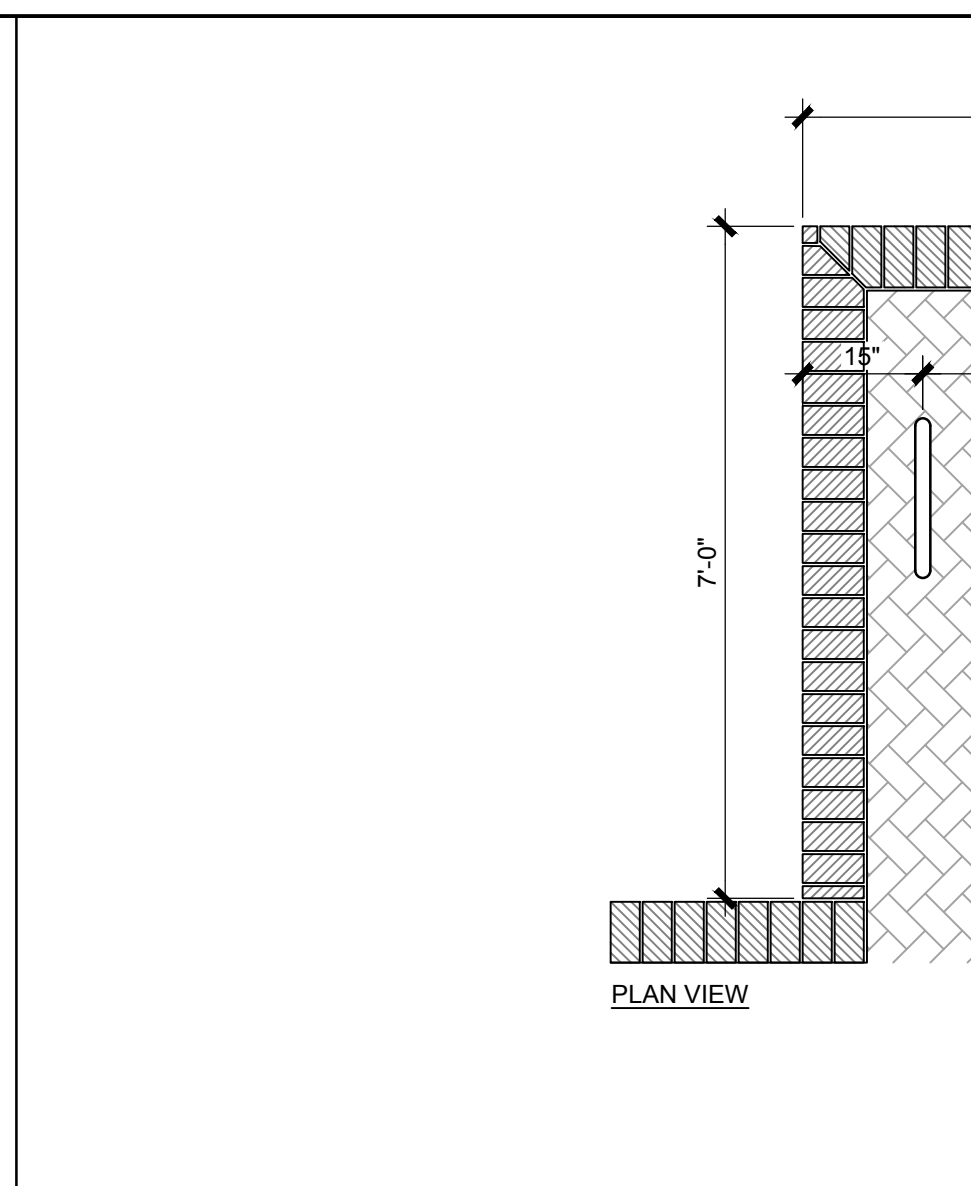
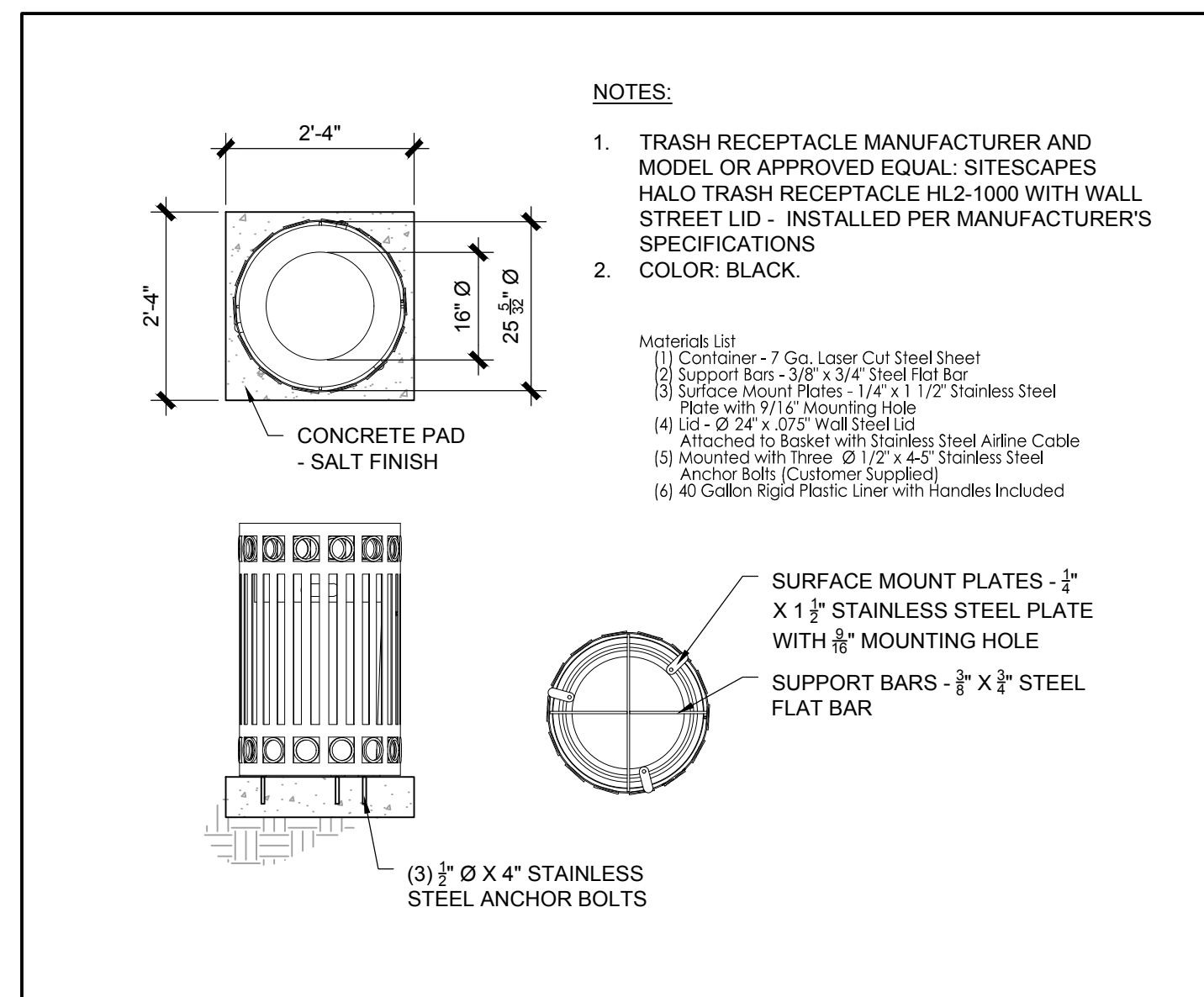


4 FOUNTAIN DETAIL PLAN

SCALE 1/4" = 1'-0"

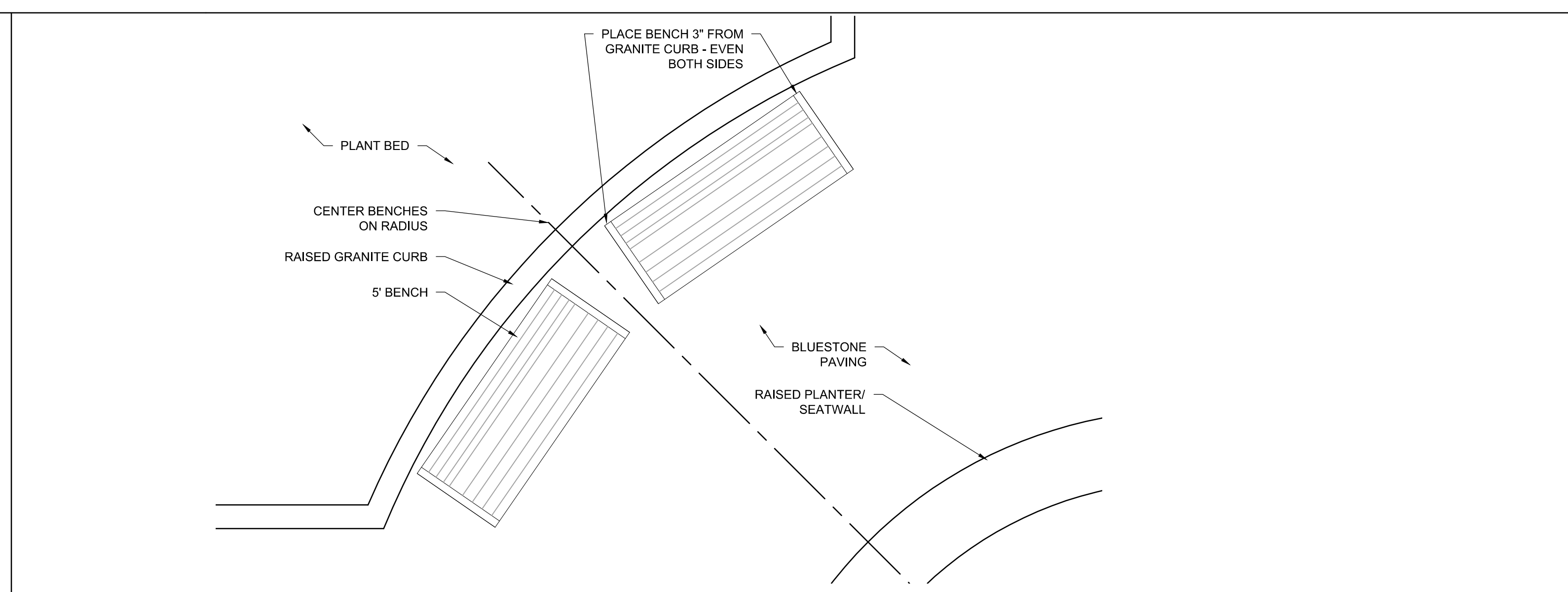
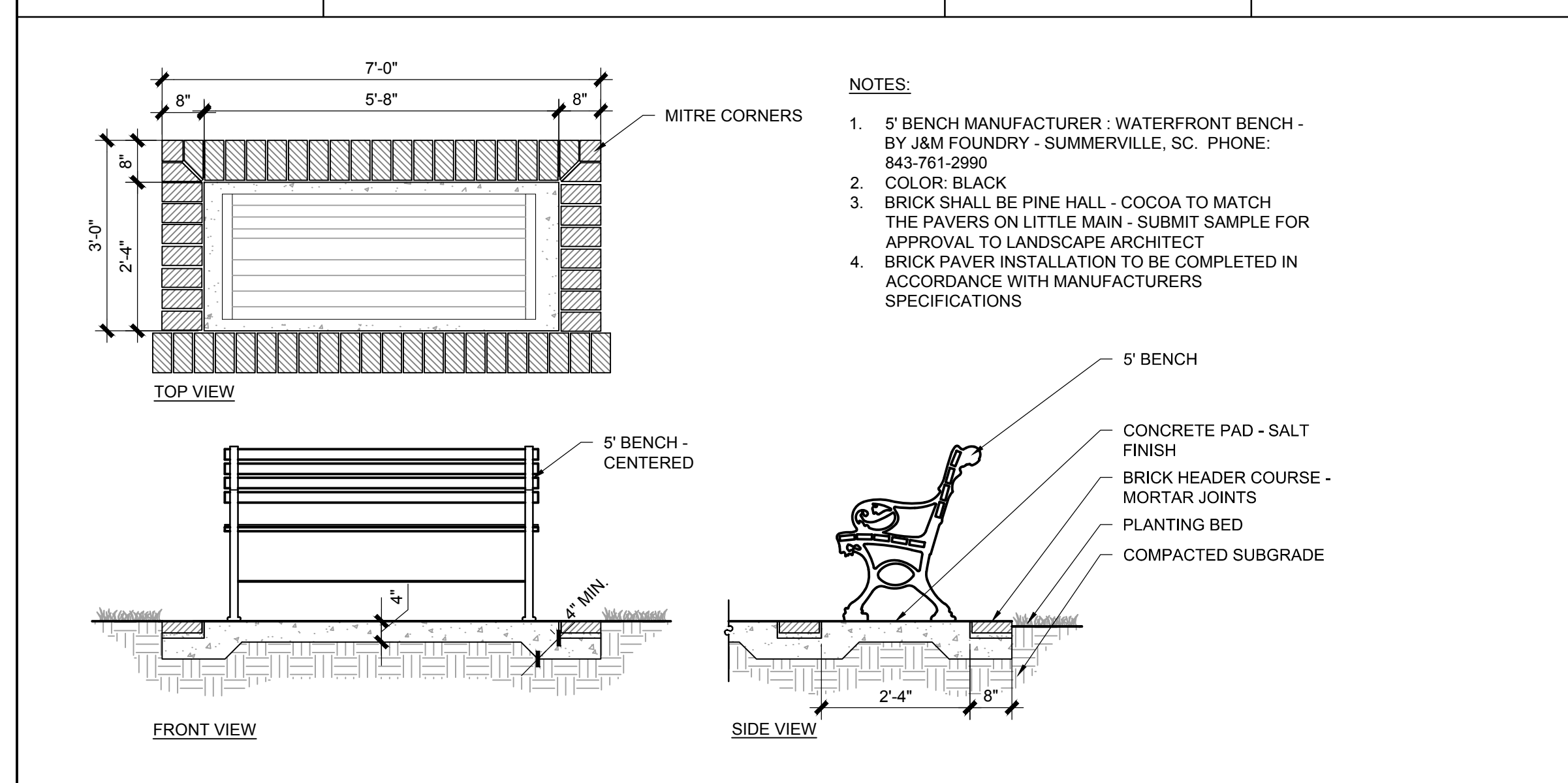
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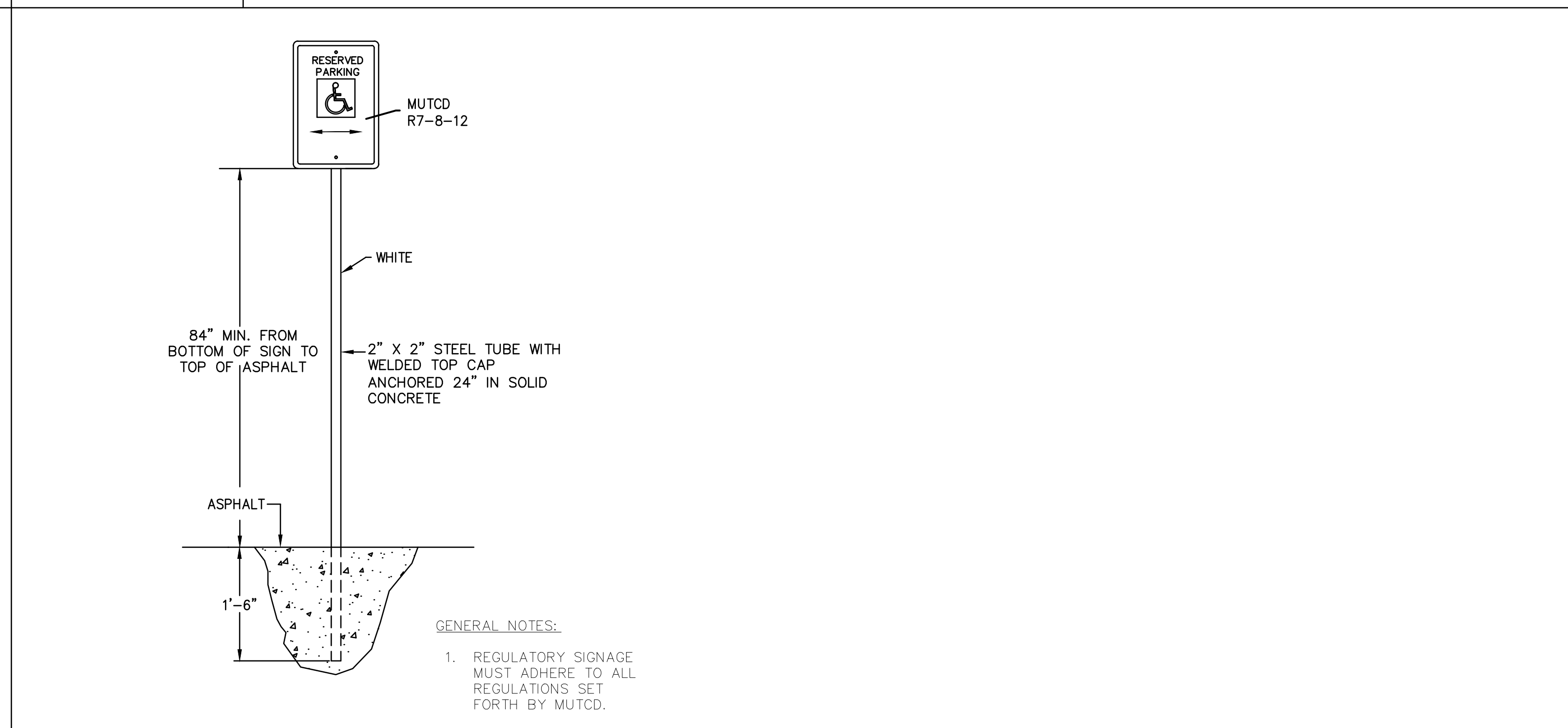
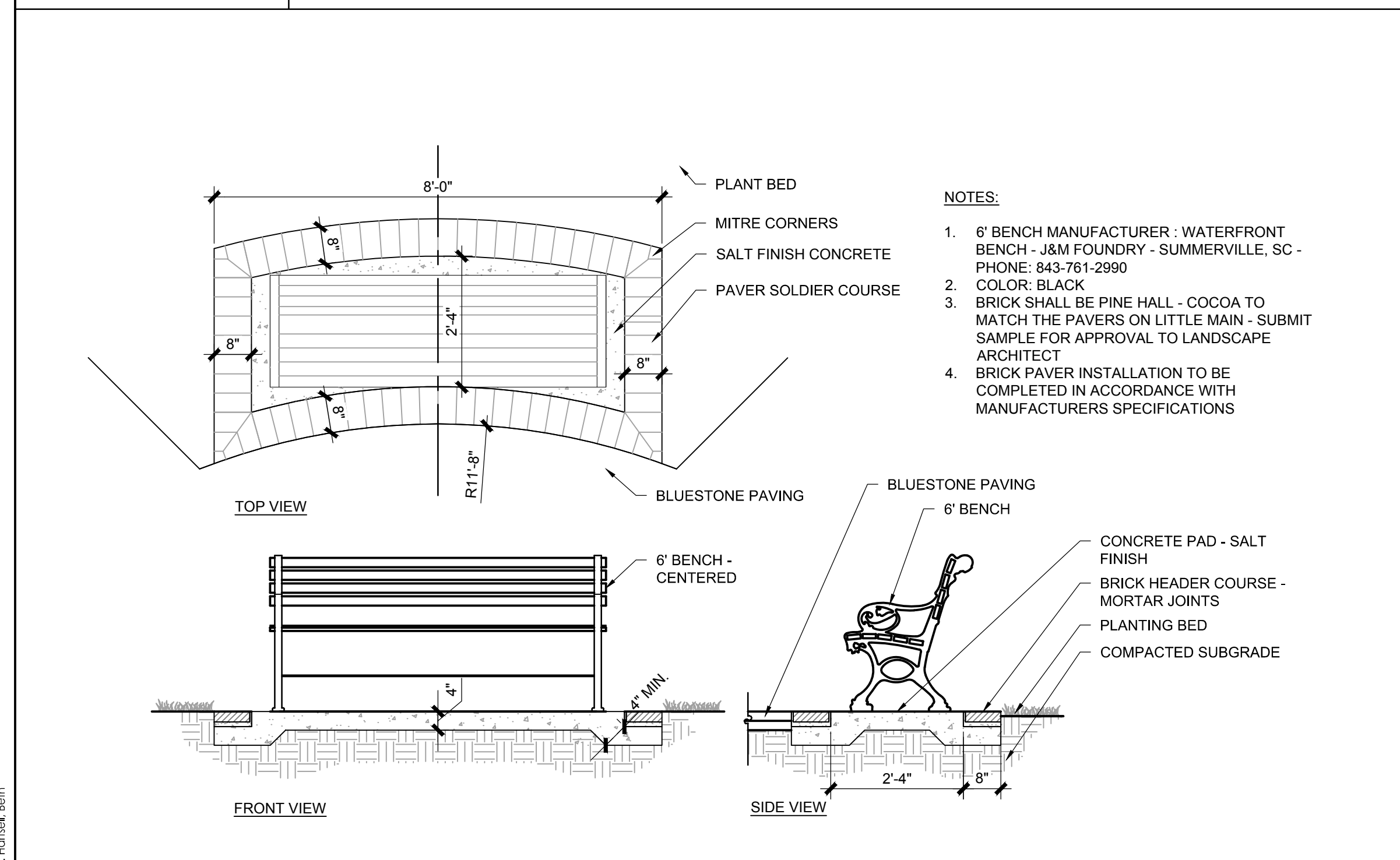
1 TRASH RECEPTACLE
SCALE: 1/2"=1'-0"

2 BIKE RACK
SCALE: 1/2"=1'-0"



3 5' BENCH
SCALE: 1/2"=1'-0"

4 5' DOUBLE BENCH
SCALE: 1/2"=1'-0"



5 6' BENCHES
SCALE: 1/2"=1'-0"

6 ADA PARKING SIGN
N.T.S.

NOTES:

1) CMU

Masonry Standard: Comply with TMS 602/ACI 530.1/ASCE 6

Concrete Masonry Unit: ASTM C90,
Lightweight or medium weight,
Minimum compressive strength f_c=4,000 PSI
Mortar: ASTM C 270, Portland Cement-Lime,
Type N

Proportion Specification,
Grout: ASTM C 476, 8-11 inch slump,
Fill reinforced cells
Reinforcing: Uncoated steel bars, ASTM A 615, See structural for sizing and spacing.
Horizontal Joint Reinforcing: ASTM A 951,
Ladder or truss type, 16" o.c. vert.
0.148-inch diameter wire, hot-dipped galvanized.
Lintel: Concrete, ASTM C 1623 or reinforced masonry bond beam,
Minimum bearing of 8 inches.

2) BRICK

Paver Brick: ASTM C 216, Grade MW or SW, Type FBS.
Product: Match Site/Landscape plans. Submittal required
Adjustable anchors for connecting to concrete: hot-dipped galvanized.
Provide minimum one tie per 24 square inches.
Mortar: ASTM C 270, Portland Cement-Lime,
Type N
Proportion Specification,
Fill collar joints solid.

3) BRICK

Wall Face Brick: ASTM C 216, Grade MW or SW, Type FBS.
Product: Match Site/Landscape plans. Submittal required
Adjustable anchors for connecting to concrete: hot-dipped galvanized.
Provide minimum one tie per 24 square inches.
Mortar: ASTM C 270, Portland Cement-Lime,
Type N
Proportion Specification,
Fill collar joints solid.

4) ROOF SHEATHING

- 1) Plywood Sheathing: Either DOC PS 1 or DOC PS 2, [Exterior, Structural I] [Exterior] sheathing,
Span Rating: Not less than 24/0,
Nominal Thickness: Not less than 15/32 inch.

Underlayment: Self-adhering, high temperature cold applied, minimum 30 mils thick.
Paint, for exposed underside: Latex over Alkyd Primer, MPI EXT 6.6.A, premium grade.
Color: Sherwin Williams "SW 6505 Atmospheric" or equivalent by PPG or Benjamin Moore.

5) METAL ROOF PANELS

Factory-formed exposed lap-seam metal roof panels.
Material: Metallic coated sheet steel per ASTM A 653, G90 (galvanized) or ASTM A 792, Class AZ50 (galvalume).
Weight: 26 gauge.
Pattern: 5 v-crimp, Standing seam
Clear acrylic coating, 25-year warranty.
Color: Hartford Green, submittal required.
Install to resist wind uplift as indicated on Structural Drawings based on testing according to ASTM E 1592:
Provide matching flashing and trim, including coping as indicated.

6) FIBER CEMENT SIDING

ASTM C 1186, Type A, Grade II, fiber-cement board, noncombustible per ASTM E 136; with a
Flame-spread index of 25 or less per ASTM E 84.
Thickness: 5/16-inch.
Pattern: Reverse Board and Batten.
Texture: Wood Grain.

Factory or machine primed all six sides
Finish System: Low-sheen finish latex, MPI EXT 5.3.J, premium grade
Color: To be determined
Install per manufacturer's written instruction over 20 gauge hot-dipped galvanized vertical zee furring.
Provide coated aluminum zee flashing at base of wall

7) STAIN

Exposed wood framing shall receive semi-transparent stain system, MPI EXT 6.2.L.

9) CAST STONE

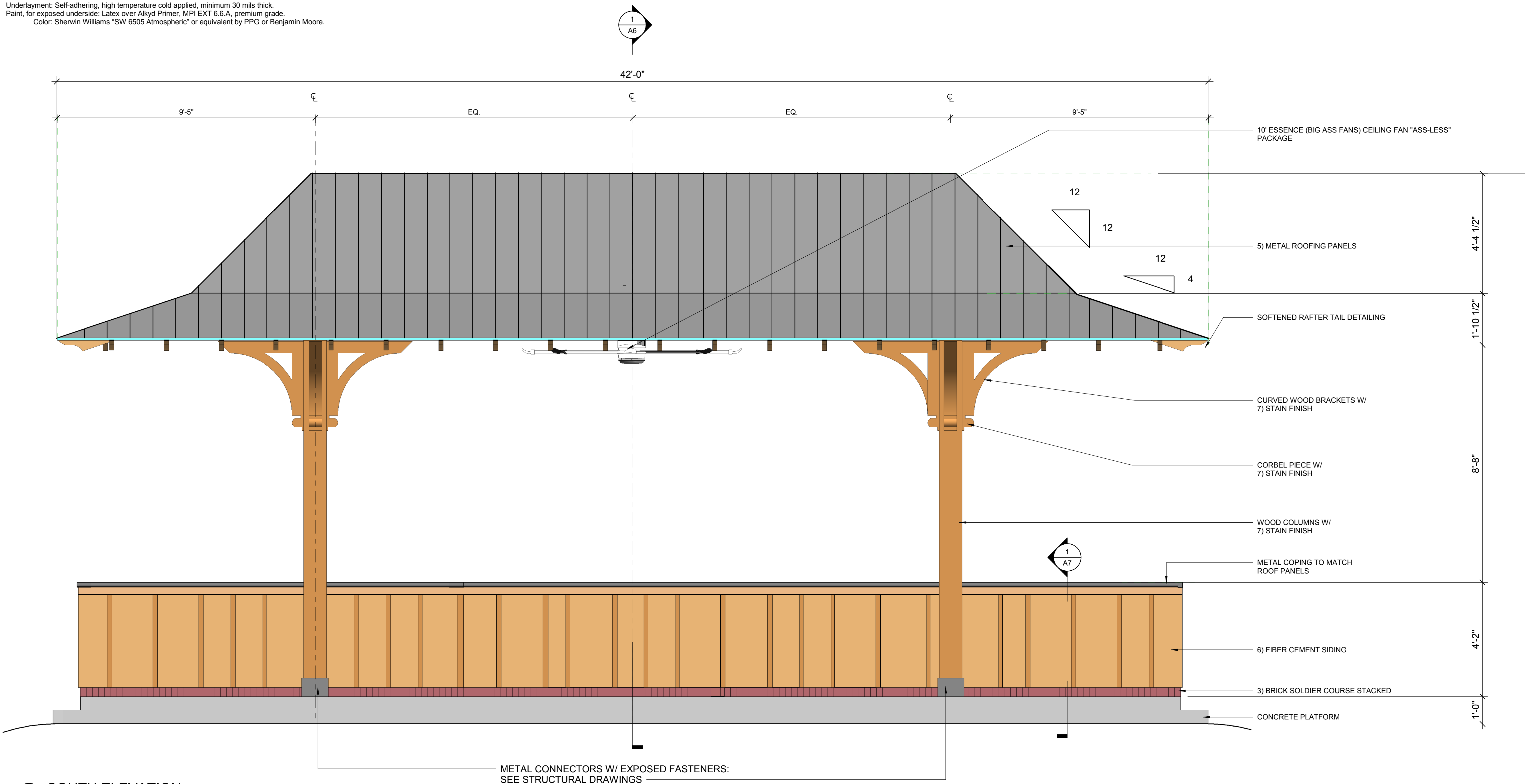
Cast Stone: ASTM C 1364.
Resistant to freezing and thawing as tested per ASTM C 666/C 666M, Procedure A.
Fabrication tolerances per Cast Stone Institute.
Acid etch units after curing to remove cement film from exposed surfaces.
Color and Texture: Match Architect's sample. Finish all exposed surfaces.
Anchors: Type 304 Stainless steel.

9) DAMPPROOFING

Bituminous Dampproofing, ASTM D 1227, Type II, Class 1.
2 coats, trowel applied, or sprayed and backrolled. Ensure complete coverage.

10) STEEL TUBE

Paint: Semi-gloss alkyd system, MPI EXT 5.3.B, premium grade.
Color: "Summerville Green"



A1 SOUTH ELEVATION
1/2" = 1'-0"

METAL CONNECTORS W/ EXPOSED FASTENERS:
SEE STRUCTURAL DRAWINGS

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The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
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Consultants



205 King St. Charleston
Charleston, SC 29401
Tel. 843-577-4444
www.LS3P.com

Legend

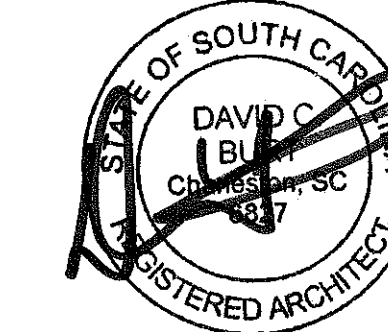
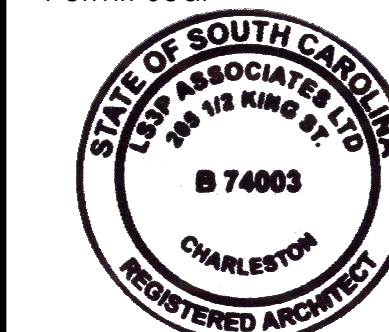
Notes

Revision

Revision	By	Appd.	YY.MM.DD
Construction Documents	JD	DB	17.10.24
Design Development	JD	DB	17.08.24
Issued	By	Appd.	YY.MM.DD

File Name:

Permit-Seal



Client/Project

Town of Summerville
Hutchinson Square Improvements
Phase II
Summerville, SC

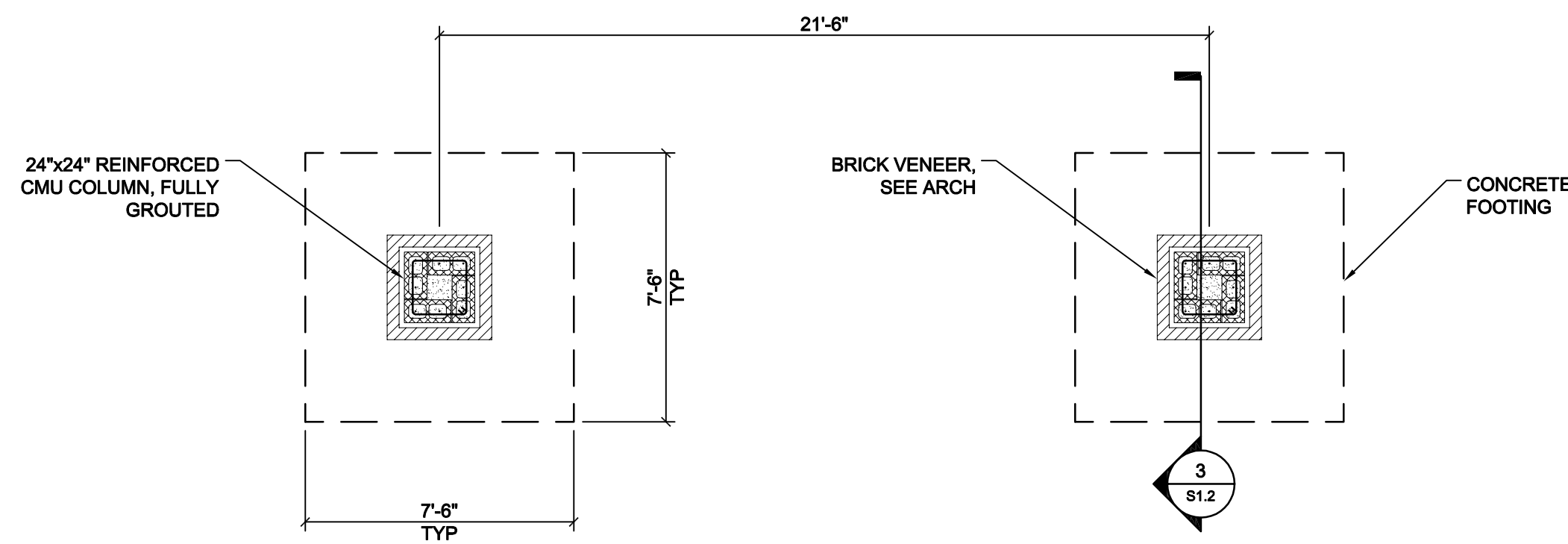
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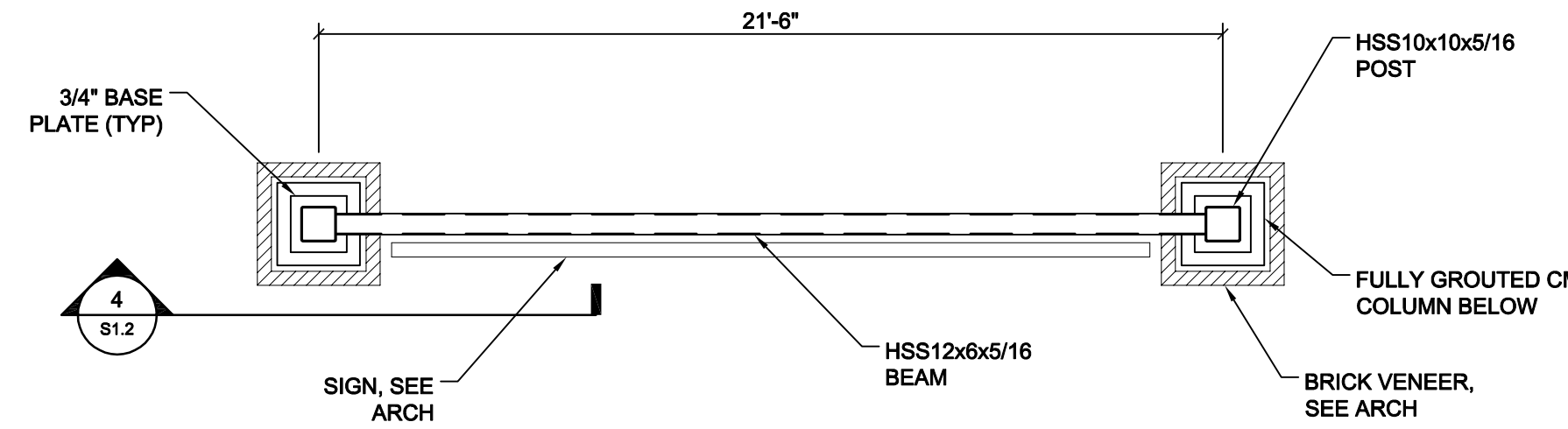
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Drawing No. Sheet of Revision

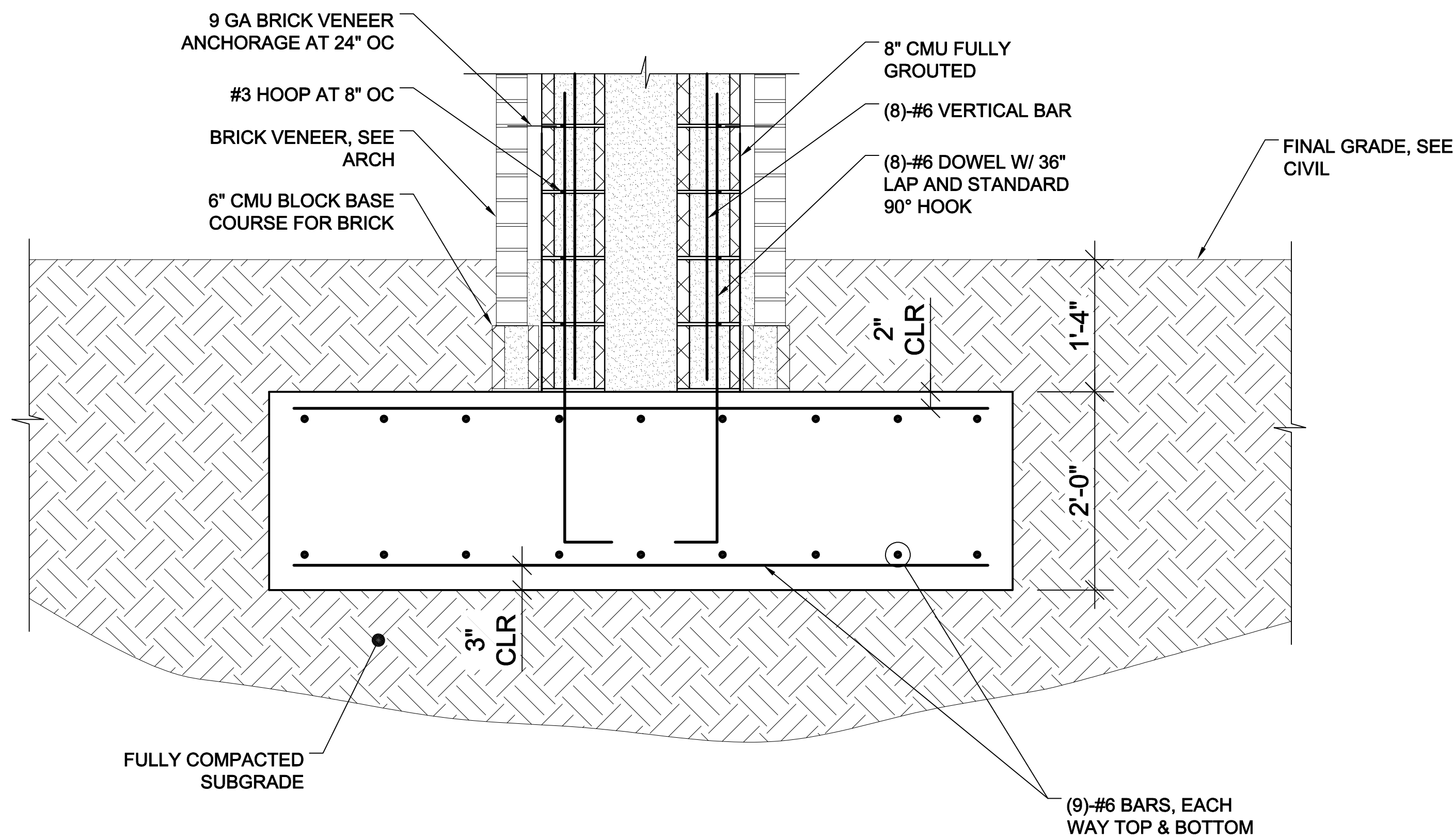
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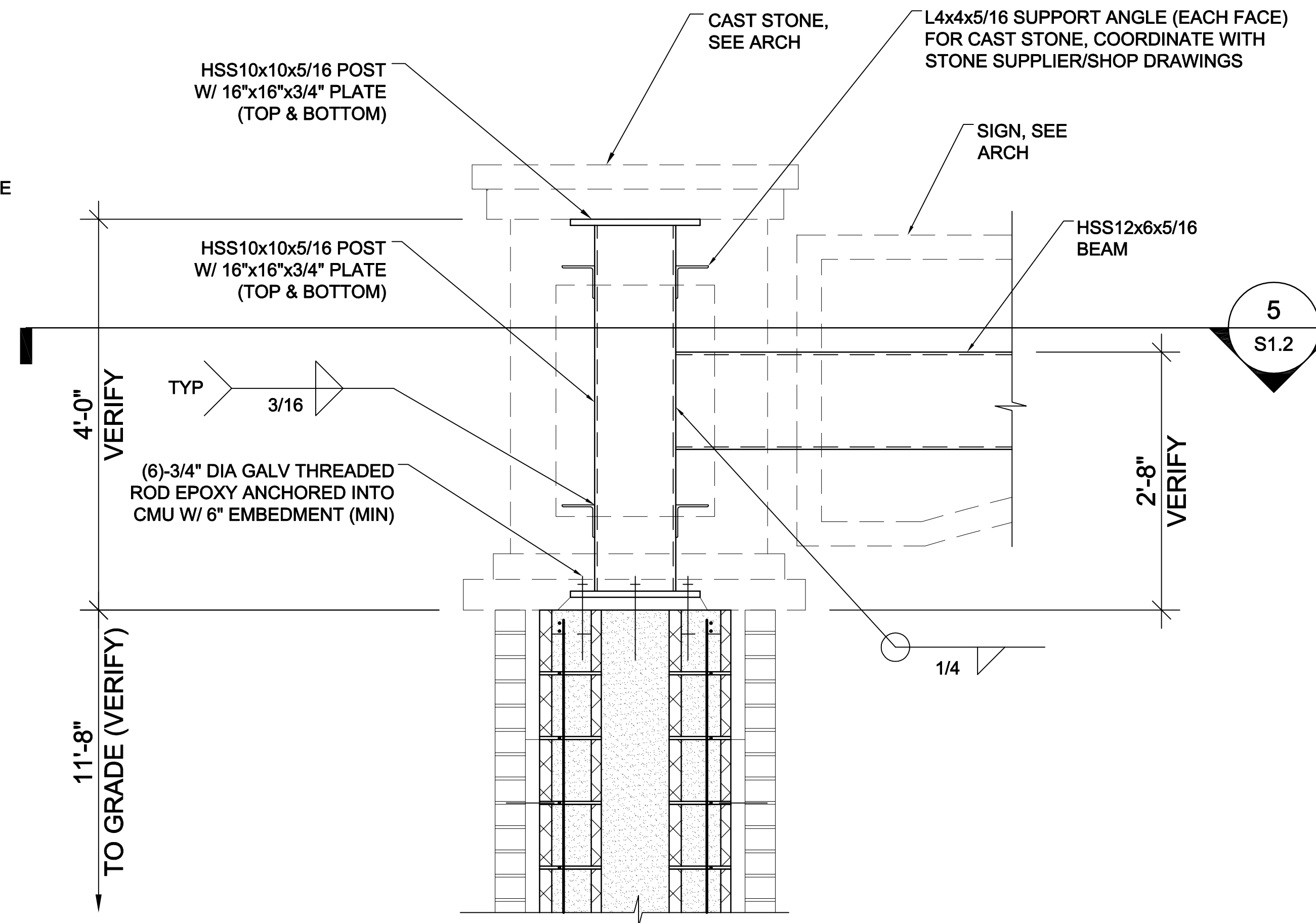
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SCALE: 1/4"=1'-0"



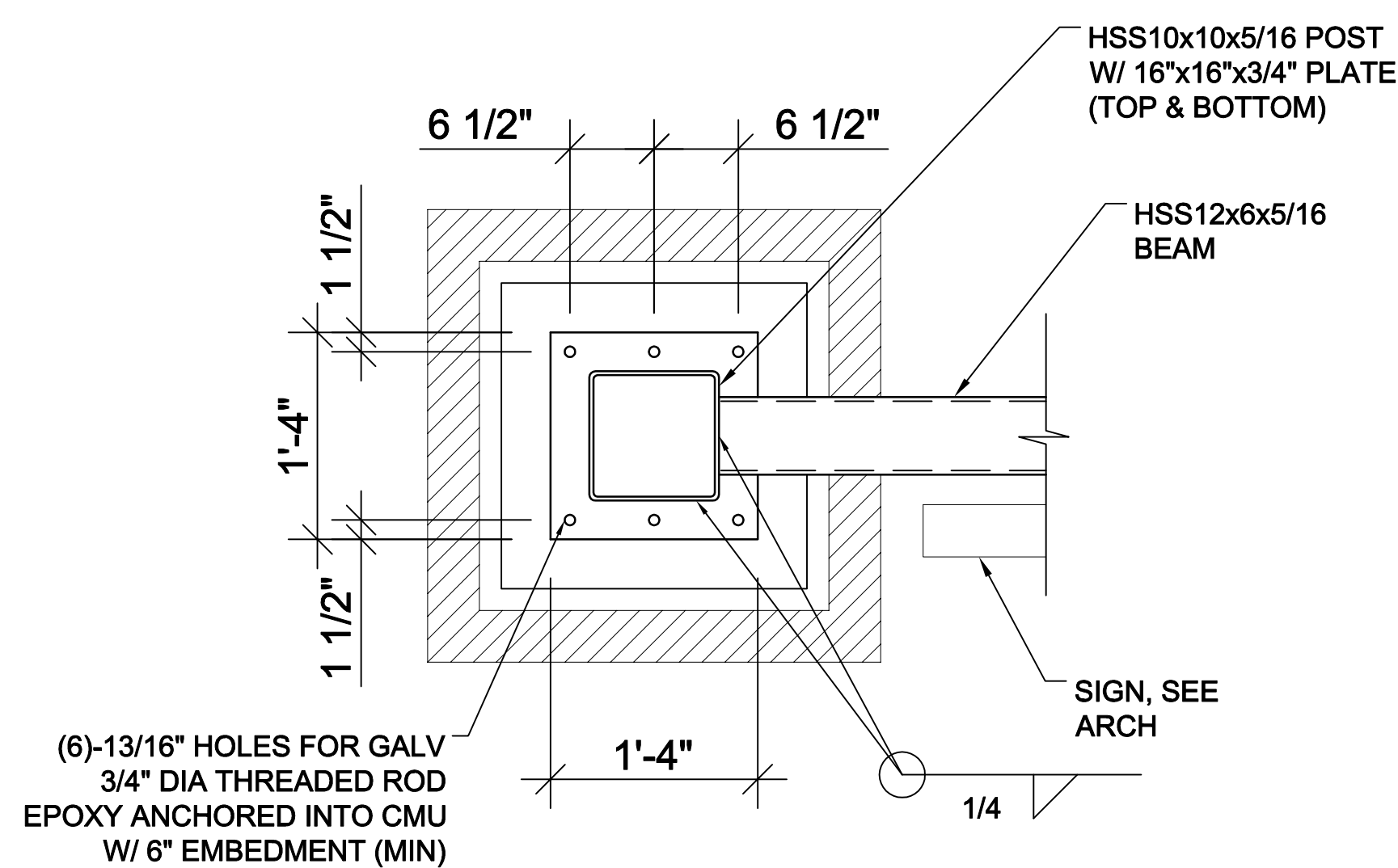
2 ENTRY SIGN - UPPER FRAMING PLAN
SCALE: 1/4"=1'-0"



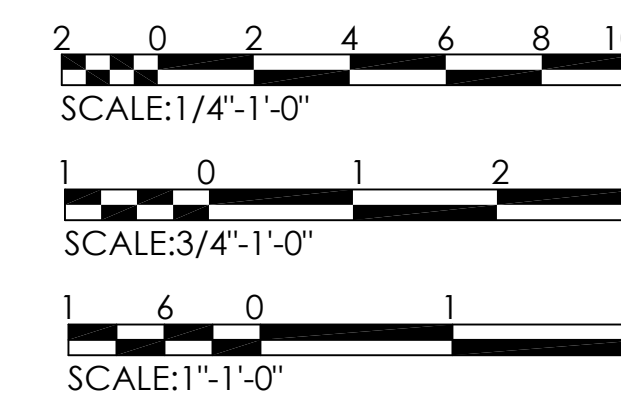
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4 SECTION
SCALE: 1"=1'-0"



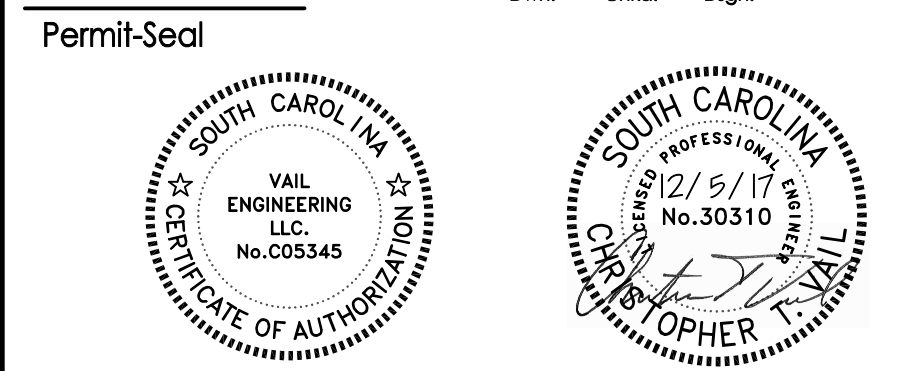
5 SECTION
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Revision	By	Appd.	YY/MM/DD

ISSUED FOR CONSTRUCTION	CTV	CTV	17/12/05
Issued	By	Appd.	YY/MM/DD

File Name:	Dwn.	Chkd.	Dign.	YY/MM/DD
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Client/Project
Town of Summerville

Hutchinson Square Improvements
Phase II
Summerville, SC

Title
Entry Sign
Plan & Sections

Project No.	Scale
178420699	As Noted

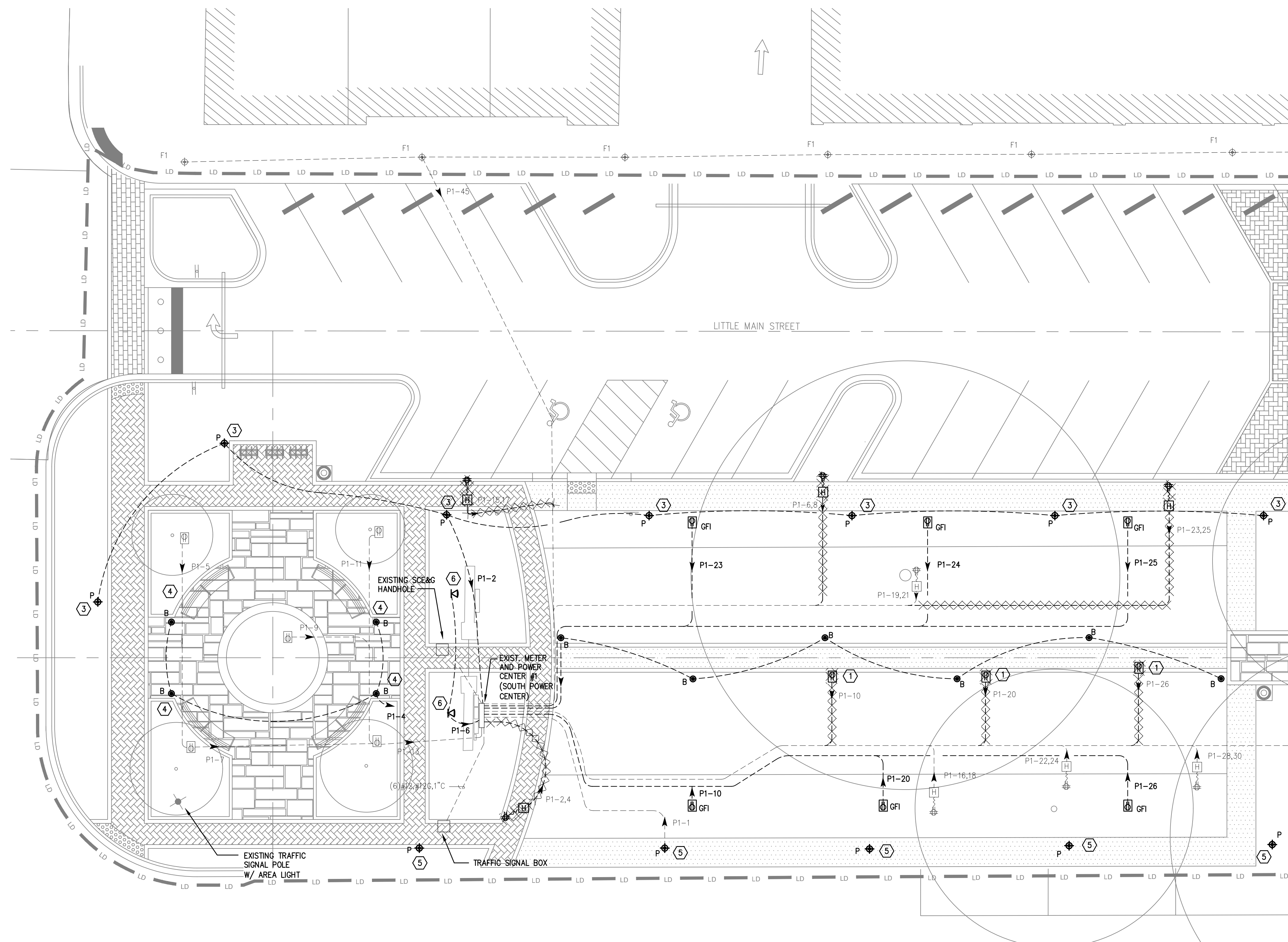
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Consultants

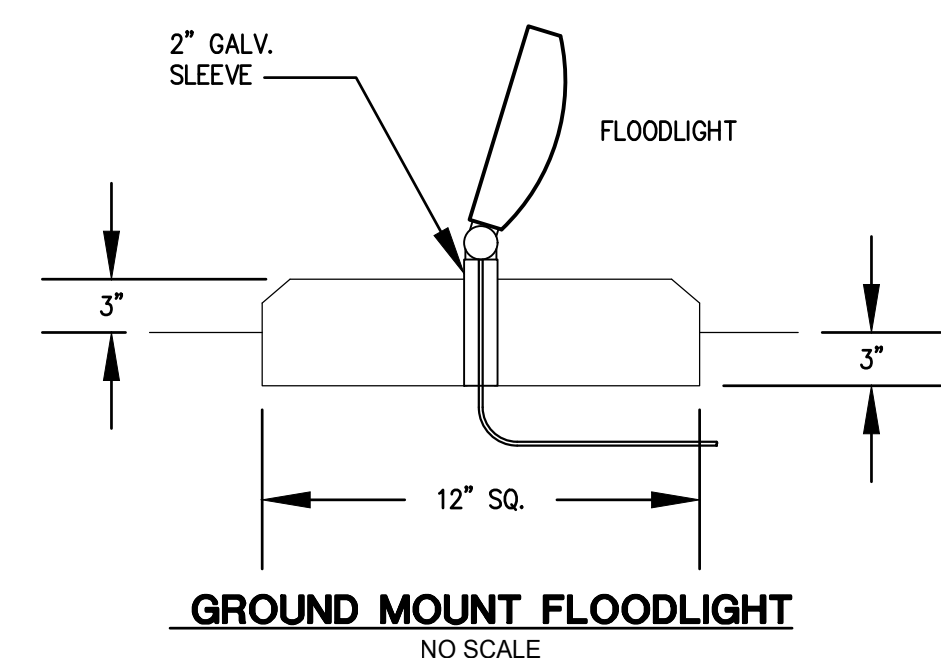
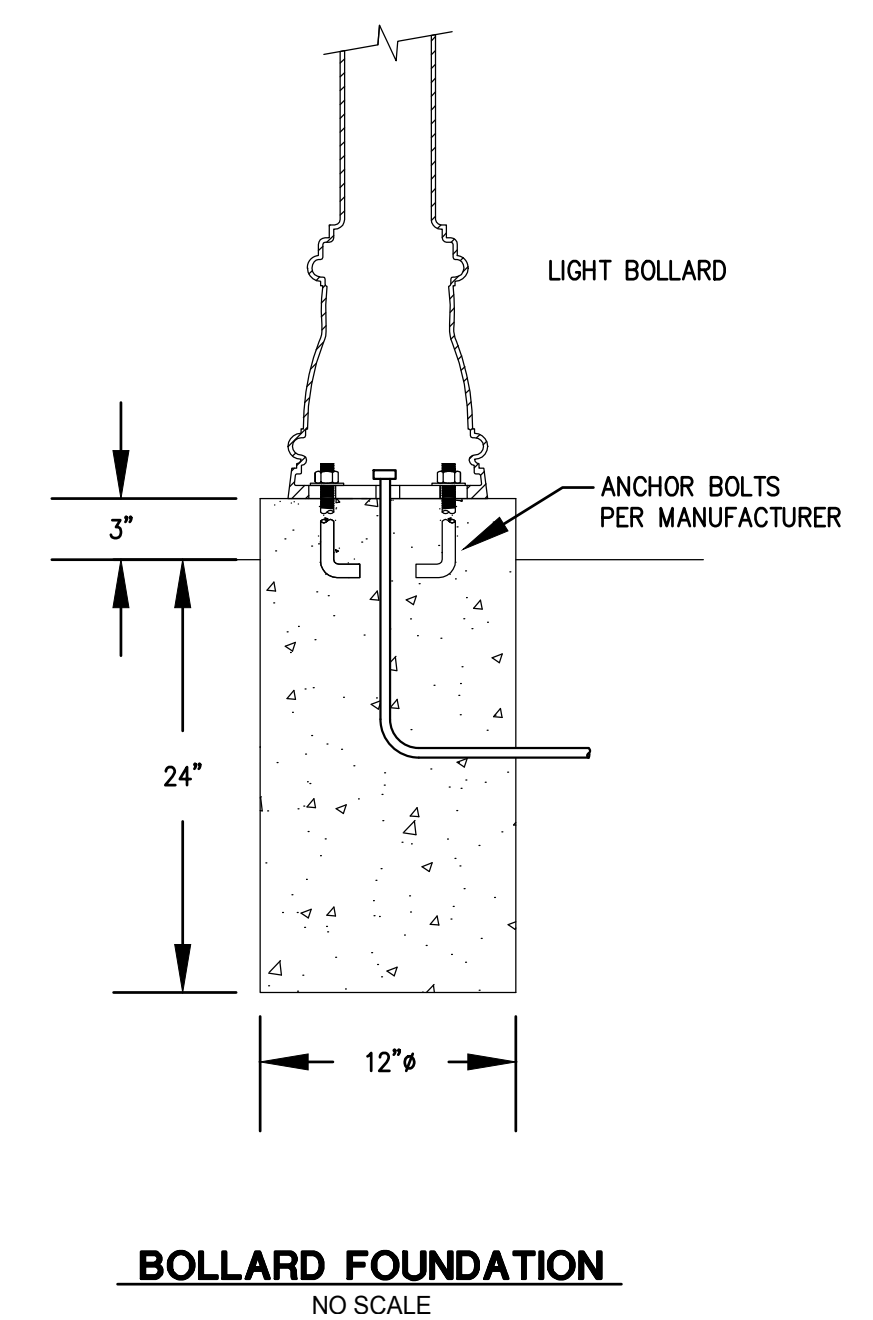
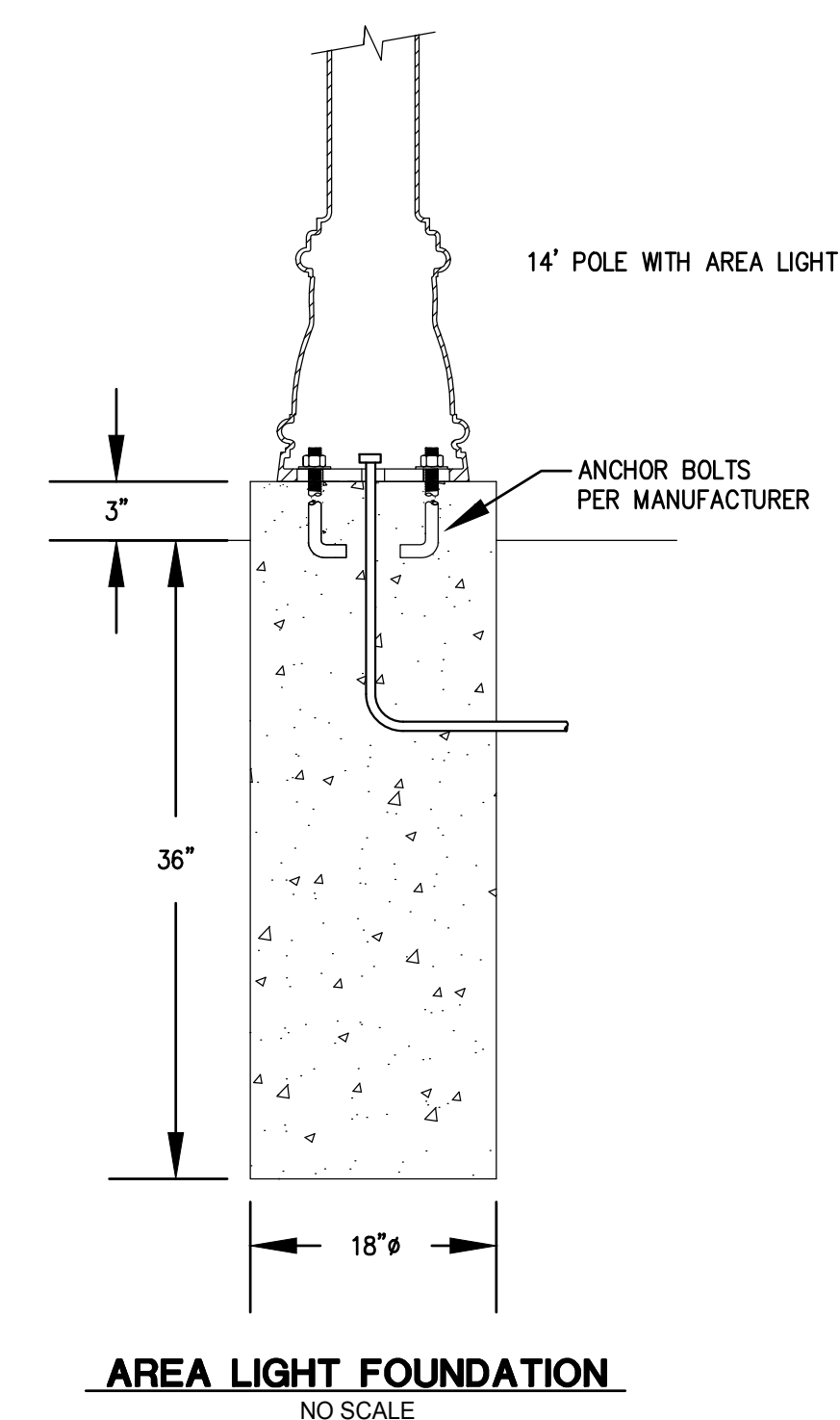
Charleston Engineering
125 B Wappoo Creek Dr.
Charleston, SC 29412
843-762-4242
Mechanical, Plumbing & Electrical

Legend

- LEGEND**
- ◆ AREA LIGHTING FIXTURE
 - ◆ EXISTING AREA LIGHTING FIXTURE
 - ◆ P AREA LIGHTING FIXTURE ON DECORATIVE POLE
 - ⊠ GROUND MOUNT FLOODLIGHT
 - ⊠ IN GROUND SUBMERSIBLE GFI DUPLEX RECEPTACLE EQUAL TO LEGRAND MODEL XB814
 - ⊠ HANDHOLE WITH FLEX CABLE ROUTED UP TREE TO QUAD GFI RECEPTABLES.
 - ⊠ JUNCTION BOX, COORDINATE LOCATION WITH EQUIPMENT SERVED
 - ⊠ INDICATES DEVICES AND ASSOCIATED WIRING TO BE REMOVED



MATCHLINE E1.2



LIGHTING CONTROL PANEL

1. PROVIDE LIGHTING CONTROL PANEL TO CONTROL ALL PARK LIGHTING AND RECEPTABLES CONNECTED TO PANEL P2.
2. LIGHTING CONTROL PANEL SHALL BE IN A NEMA 4 ENCLOSURE.
3. PROVIDE (8) 3 POLE 20 AMP LIGHTING CONTACTORS WITH 120 VOLT COILS.
4. PROVIDE ASTRONOMICAL TIME CLOCK TO CONTROL ALL CONTRACTORS.
5. LIGHTING CONTROL PANEL SHALL HAVE INNER DEADFRONT COVER TO ACCESS THE TIMER AND ON/OFF/AUTOMATIC SWITCH FOR EACH CONTRACTOR.
6. PROVIDE PHOTOSWITCH TO CONTROL AREA LIGHTS (TYPE P LIGHTS).
7. AREA LIGHTS SHALL ALSO BE CONTROLLED WITH DIMMER SWITCH IN PANEL.

GENERAL ELECTRICAL NOTES

- 1 EXACT ROUTING OF ALL CIRCUITS SHALL BE DETERMINED IN THE FIELD AFTER LOCATING ALL OTHER UTILITIES AND ROUTED TO MINIMIZE IMPACT TO EXISTING TREES.
- 2 ALL NEW WIRING SHALL BE MINIMUM (2)#10, #10 GROUND IN 1" SCHEDULE 40 PVC CONDUIT 24" BELOW GRADE.
- 3 ALL NEW PARK LIGHTING CIRCUITS SHALL BE ROUTED THROUGH AND CONTROLLED BY LIGHTING CONTROL PANELS. LIGHTING CONTROL PANEL IS EXISTING AT SOUTH POWER CENTER. PROVIDE NEW CONTROL PANEL FOR NORTH POWER CENTER.

ELECTRICAL NOTES

- 1 REMOVE EXISTING GROUND MOUNTED RECEPTACLE AND ASSOCIATED WIRING.
- 2 REMOVE EXISTING AREA LIGHT.
- 3 NEW AREA LIGHTING FIXTURE ON NEW CONCRETE FOUNDATION. SEE FOUNDATION DETAIL.
- 4 NEW BOLLARD LIGHTING FIXTURE IN CONCRETE FOUNDATION. SEE FOUNDATION DETAIL.
- 5 RETROFIT EXISTING FIXTURE WITH NEW LED LAMP. RETROFIT KIT SHALL BE HOLOPHANE MODEL AWDEORIGRETRO 80 4K AS G 3.
- 6 PROVIDE GROUND MOUNTED FLOODLIGHT TO LIGHT SIGN.

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ORIGINAL SHEET - ARCH'D

Notes

Revision	By	Appd.	YY.MM.DD

Issued	By	Appd.	12-14-2017

File Name:	Dwn.	Chkd.	Desgn.	YY.MM.DD

Permit-Seal

Client/Project

Town of Summerville

HUTCHINSON SQUARE IMPROVEMENTS
PHASE II
Summerville, SC

Title

ELECTRICAL PLAN "A"









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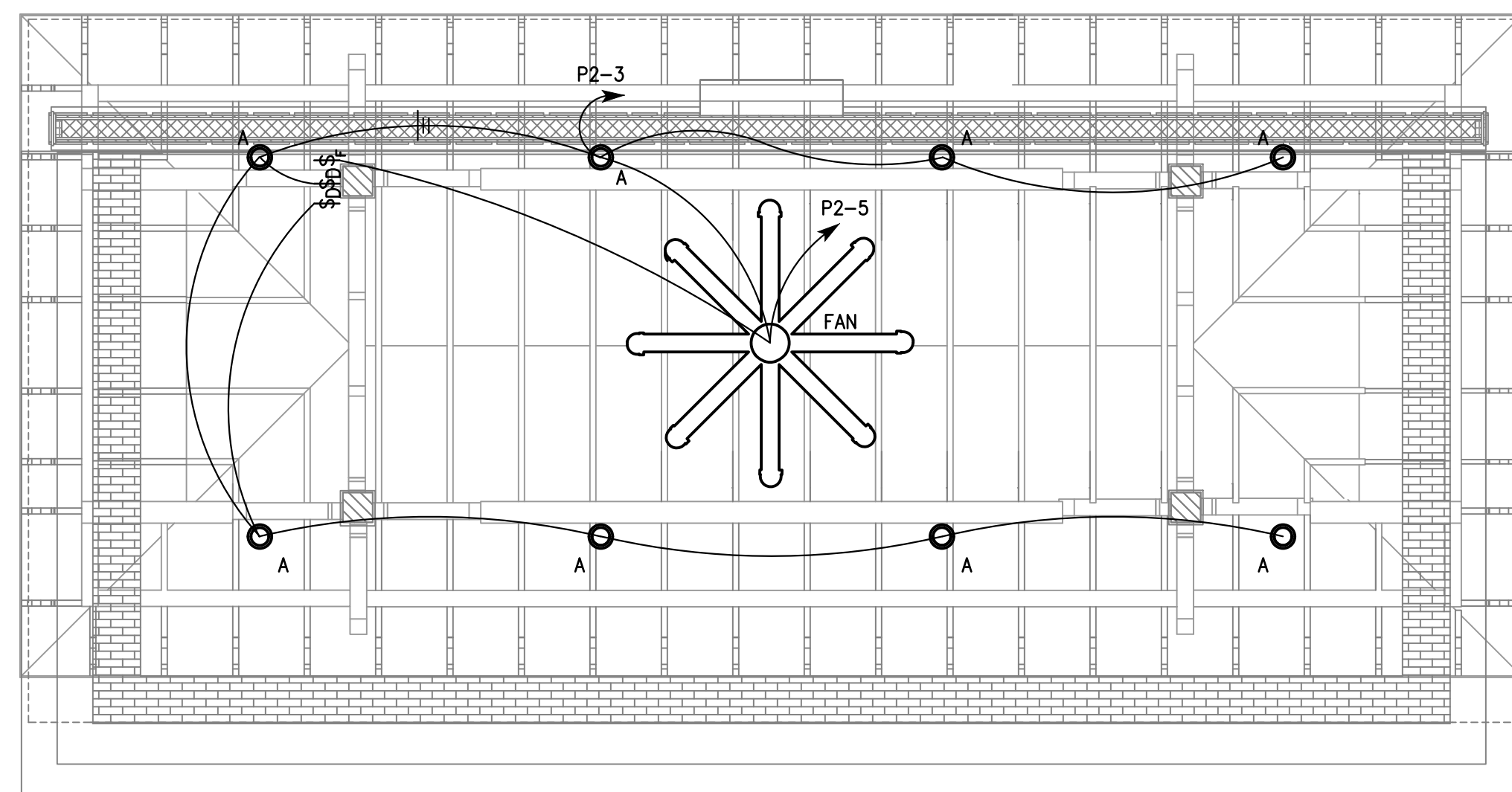
Drawing No.	Sheet	Revision
E1.1	1 of 4	0

Consultants

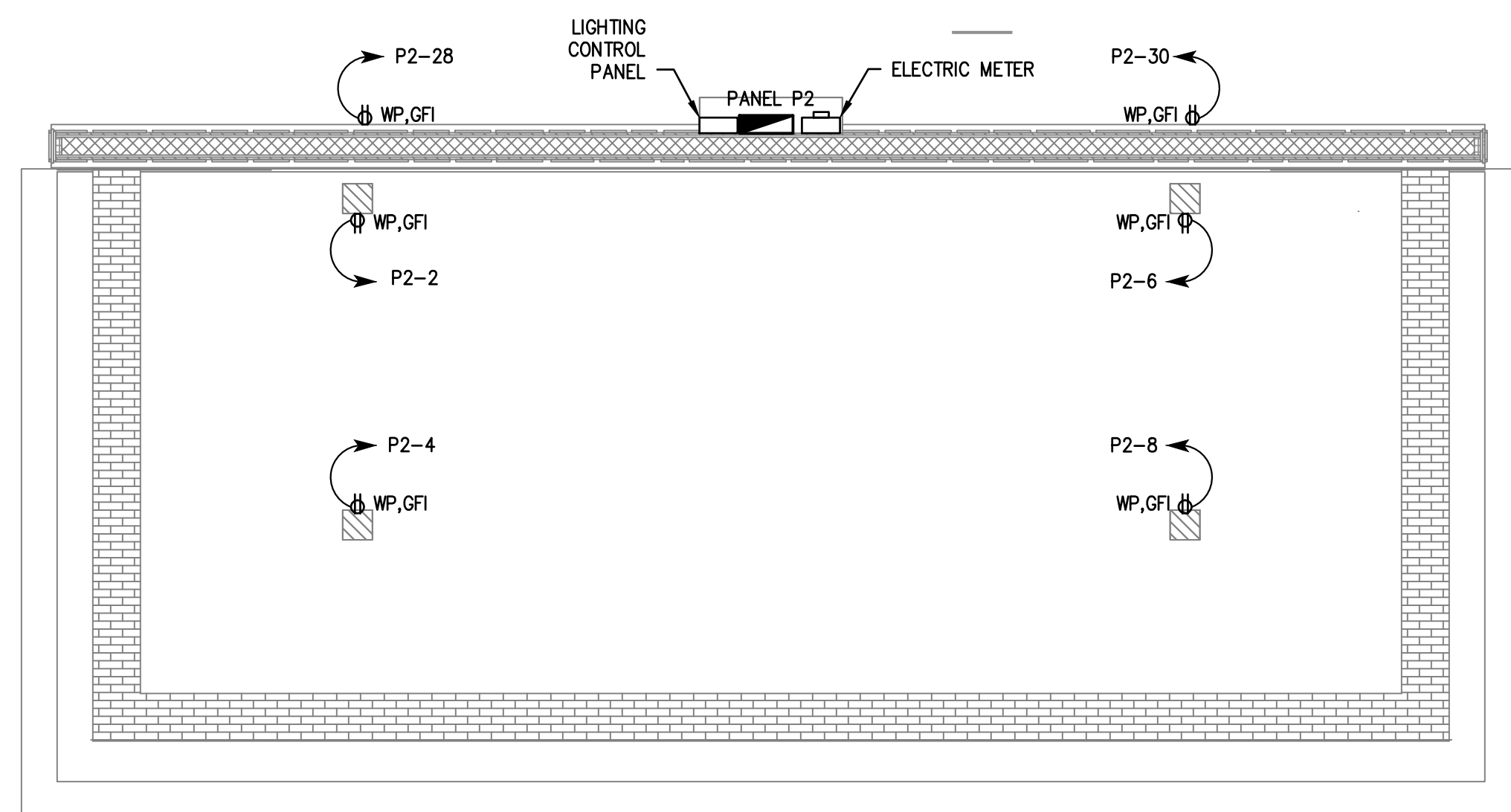


Legend

- LEGEND (THIS SHEET ONLY)**
-  DUPLEX RECEPTACLE
 -  ELECTRICAL PANEL; SEE PANEL SCHEDULE
 -  SINGLE POLE SWITCH; 20 AMP
 -  DIMMER SWITCH
 -  FAN SWITCH
 -  LIGHTING FIXTURES; SEE SCHEDULE
 -  GFI INDICATES "GROUND FAULT INTERRUPTER"
 -  WP INDICATES WEATHER PROOF COVER



ELECTRICAL LIGHTING PLAN
SCALE: 1/4" = 1'-0"



ELECTRICAL POWER PLAN
SCALE: 1/4" = 1'-0"

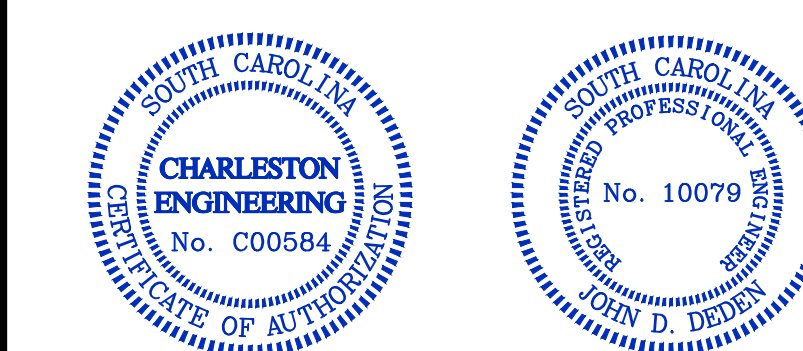
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Issued	By	Appd.	12-14-2017 YY.MM.DD

File Name:	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Permit-Seal



Client/Project

Town of Summerville

HUTCHINSON SQUARE IMPROVEMENTS
PHASE II
Summerville, SC

Title

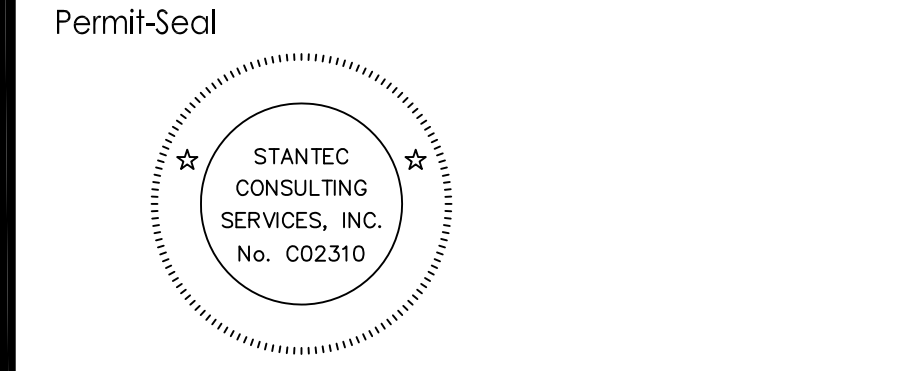
ELECTRICAL PLANS

Project No. 1756	Scale 1/4" = 1'-0"	Revision
Drawing No. E2.1	Sheet 3 of 4	Revision 0

Revision	By	Appd.	YY.MM.DD

Issued	By	Appd.	YY.MM.DD

Permit-Seal	Dwn.	Chkd.	Dsgn.	YY.MM.DD

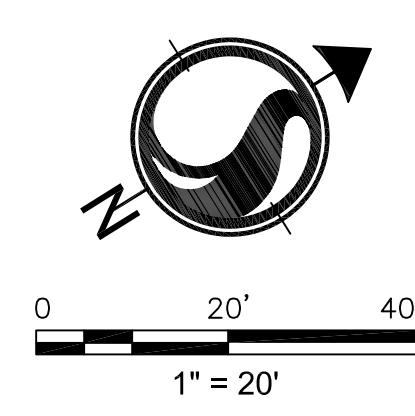
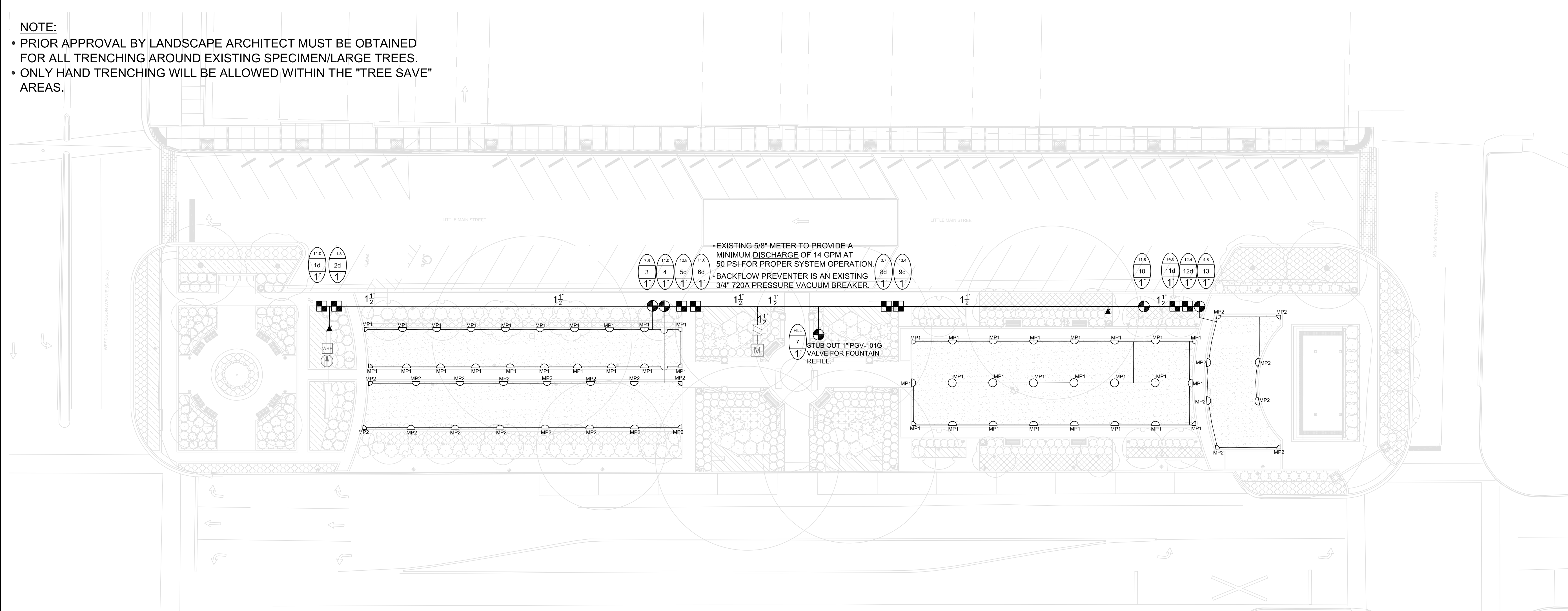


Client/Project
 Town of Summerville
 HUTCHINSON SQUARE IMPROVEMENTS - PHASE II
 BID SET - PARK
 Summerville, SC

Title
 SPRAY IRRIGATION

Project No.	Scale	
178420699	1" = 20'-0"	
Drawing No.	Sheet	Revision
11	1 of 4	0

- NOTE:**
- PRIOR APPROVAL BY LANDSCAPE ARCHITECT MUST BE OBTAINED FOR ALL TRENCHING AROUND EXISTING SPECIMEN/LARGE TREES.
 - ONLY HAND TRENCHING WILL BE ALLOWED WITHIN THE "TREE SAVE" AREAS.



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 2/18/17 11:42 AM By: [redacted]

ORIGINAL SHEET - ARCH.D

Simmons Irrigation Supply
 P.O. BOX 10
 526 SIDNEYS ROAD
 WALTERBORO, SC 29488
 PH: (843)538-5566
 FAX: (843)538-2068
 sisinc@lowcountry.com

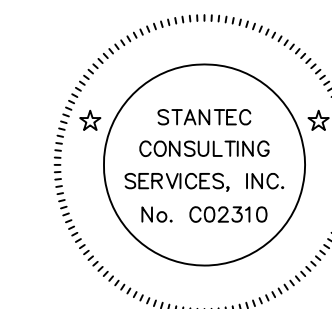


Revision	By	Appd.	YY.MM.DD

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File Name:	Dwn.	Chkd.	Dgn.	YY.MM.DD
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Permit-Seal

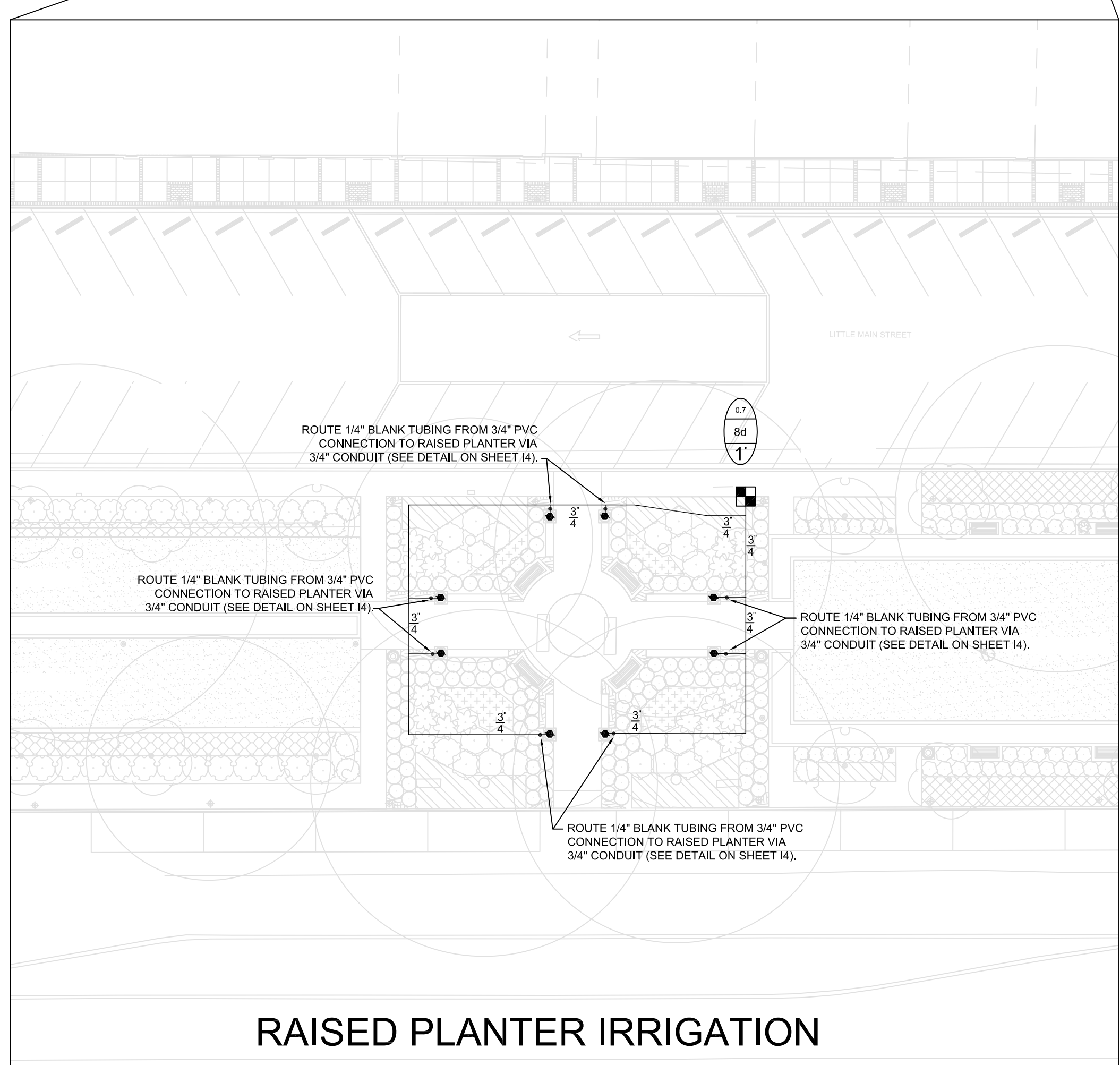
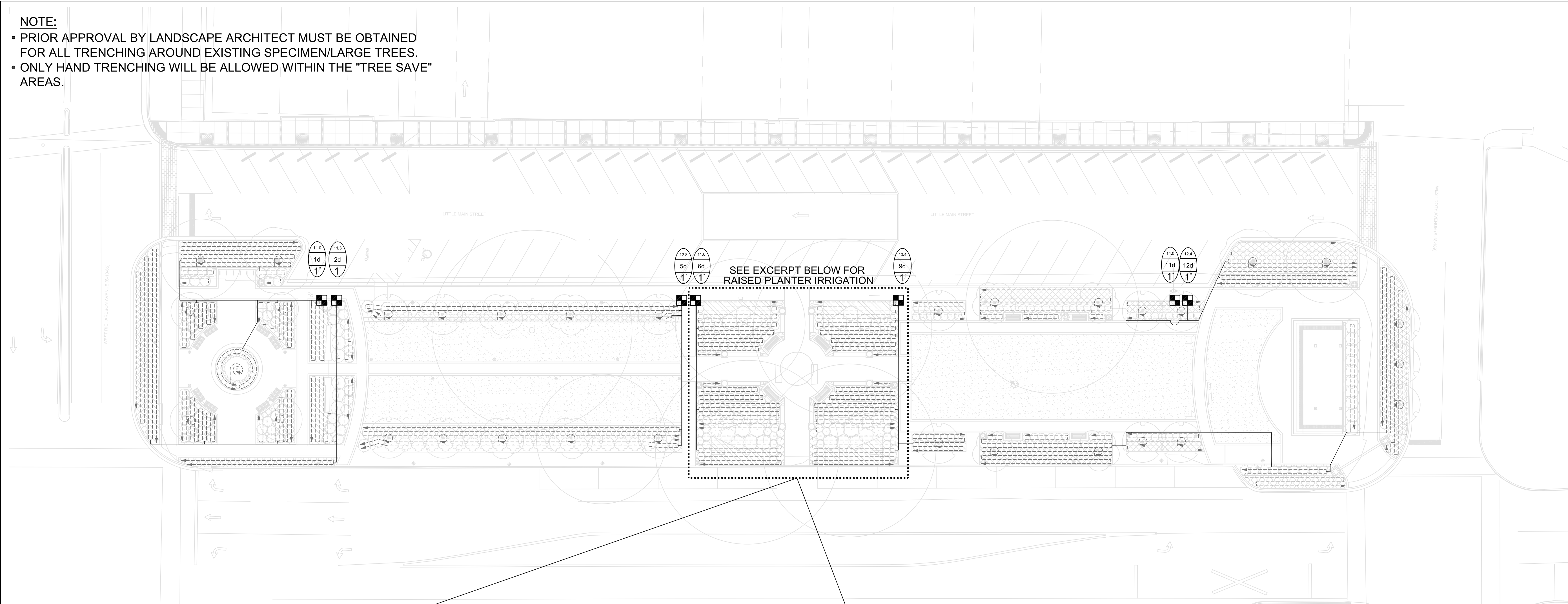


Client/Project
 Town of Summerville
 HUTCHINSON SQUARE IMPROVEMENTS - PHASE II
 BID SET - PARK
 Summerville, SC

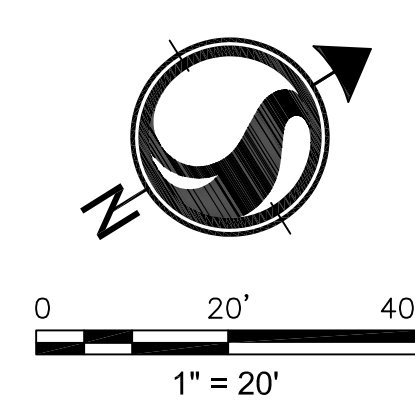
Title
 DRIP IRRIGATION

Project No.	Scale	
178420699	1" = 20'-0"	
Drawing No.	Sheet	Revision
12	2 of 4	0

- NOTE:
- PRIOR APPROVAL BY LANDSCAPE ARCHITECT MUST BE OBTAINED FOR ALL TRENCHING AROUND EXISTING SPECIMEN/LARGE TREES.
 - ONLY HAND TRENCHING WILL BE ALLOWED WITHIN THE "TREE SAVE" AREAS.

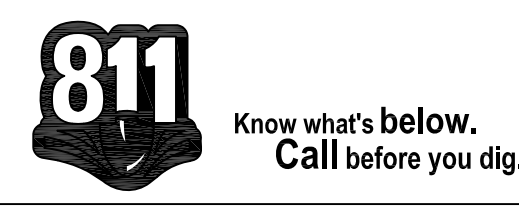


RAISED PLANTER IRRIGATION



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Simmons Irrigation Supply
 P.O. BOX 10
 526 SIDNEYS ROAD
 WALTERBORO, SC 29488
 PH: (843)538-5566
 FAX: (843)538-2068
 sisinc@lowcountry.com



HUNTER PRO-C SERIES CONTROLLER

- 3, 6, 9, & 12 STATIONS.
- VERSATILE MODULAR DESIGN SIMPLIFIES INVENTORY MANAGEMENT; EASILY CUSTOMIZE UNIT TO DESIRED NUMBER OF STATIONS.
- THREE PROGRAMS (A, B, & C) START TIMES, INDEPENDENT PROGRAMMING HANDLES MANY DIFFERENT WATERING REQUIREMENTS.
- CHOICE OF INDEPENDENT DAY SCHEDULING OPTIONS - DAYS OF THE WEEK, ODD/EVEN OR 31-DAY INTERVAL FOR MAXIMUM FLEXIBILITY.
- GLOBAL WATER BUDGET/SEASONAL ADJUSTMENT EASILY SPACE TO WORK.
- NON-VOLATILE MEMORY HOLDS PROGRAMS INDEFINITELY; EXCELLENT INSURANCE AGAINST UNRELIABLE POWER.
- SUPERIOR SURGE PROTECTION AND SELF-DIAGNOSTIC SHORT CIRCUIT PROTECTION. MICROCIRCUITS ARE PROTECTED FROM ELECTRICAL SPIKES, NO FUSES TO WORRY ABOUT.
- REMOTE CONTROL READY - SUPPLIED WITH CONNECTION FOR SRR AND ICR REMOTE CONTROL AND SRR PC PROGRAMMER.
- PROGRAMMABLE PUMP/MASTER VALVE CIRCUIT BY STATION.
- PROGRAMMABLE DELAY FOR MAXIMUM FLEXIBILITY.
- CAPABLE OF OPERATING EQUIVALENT OF 3 SOLENOIDS SIMULTANEOUSLY.
- TRANSFORMER OUTPUT: 24VAC, 1.0 AMP.
- STATION OUTPUT: 24VAC, 0.56A PER STATION.

HUNTER WIRELESS RAIN/FREEZE-CLIK SYSTEM

- MODELS: RAIN-CLIK, RAIN/FREEZE-CLIK, WIRELESS RAIN-CLIK, WIRELESS RAIN/FREEZE-CLIK
- QUICK RESPONSE FEATURE SHUTS OFF THE SYSTEM AS SOON AS IT STARTS RAINING.
- MAINTENANCE-FREE DESIGN WITH 10-YEAR BATTERY LIFE.
- ADJUSTABLE VENT RING ALLOWS FOR SETTING OF RESET DELAY.
- RUGGED POLYCARBONATE HOUSING AND METAL EXTENSION ARM.
- RAIN-CLIK INCLUDES 25' OF 20 GAUGE SHEATHED, TWO-CONDUCTOR, UL-APPROVED WIRE.
- WIRE-FREE OPERATION ALLOWS EASY INSTALLATION ON NEW OR EXISTING SYSTEMS.
- SENSOR OPERATES UP TO 800 FEET FROM RECEIVER UNIT.
- BUILT-IN BYPASS SWITCH ON RECEIVER PANEL.
- WIRELESS RAIN/FREEZE-CLIK SENSOR PROTECTS AGAINST ICE CAUSED BY IRRIGATION ON LANDSCAPES, ROADS, AND WALKWAYS.
- COMPATIBLE WITH MOST CONTROLLERS.
- GENERAL WARRANTY: 5 YEARS.
- BATTERY WARRANTY (WIRELESS MODEL): 10 YEARS.
- WIRING: NORMALLY CLOSED OR NORMALLY OPEN.
- TIME TO TURN OFF IRRIGATION SYSTEM: 2 TO 5 MINUTES APPROX. FOR QUICK RESPONSE.
- TIME TO RESET QUICK RESPONSE: 4 HOURS APPROX. UNDER DRY, SUNNY CONDITIONS.
- TIME TO RESET WHEN FULLY WET: 3 DAYS APPROX. UNDER DRY, SUNNY CONDITIONS.
- OPERATING TEMPERATURE: 32°F TO 130°F.
- OPTIONAL USER INSTALLED GUTTER MOUNT FOR RAIN-CLIK (ORDER SGM).
- SWITCH RATING: 24 VAC, 3 A.
- FREEZE SENSOR SHUTS SYSTEM OFF WHEN TEMPERATURES FALL BELOW 37°F (RAIN/FREEZE-CLIK MODEL).
- SYSTEM OPERATING FREQUENCY: 433 MHz.
- COMMUNICATION RANGE UP TO 800 FEET LINE OF SIGHT.
- WIRELESS RAIN/FREEZE-CLIK SENSOR PROTECTS AGAINST ICE CAUSED BY IRRIGATION ON LANDSCAPES, ROADS, AND WALKWAYS.
- RECEIVER INPUT POWER: 24 VAC (FROM CONTROLLER).

HUNTER PGV SERIES ELECTRIC VALVE

- 1", 1 1/2" & 2".
- HEAVY-DUTY SOLENOID PROVIDES DEPENDABLE OPERATION AND LONG LIFE.
- HIGH GRADE CONSTRUCTION, 150 PSI RATING, MADE OF DURABLE MATERIALS TO RESIST WATER.
- INTERNAL MANUAL BLEED - EASY TO USE AND KEEPS VALVE BOX DRY.
- FLOW CONTROL WITH NON-RISING HANDLE - ADJUST THE FLOW OF EACH ZONE ON A SYSTEM.
- RIGID DIAPHRAGM SUPPORT THAT WORKS TO PREVENT STRESS FAILURE IN TOUGH CONDITIONS.
- GLOBE AND ANGLE CONFIGURATIONS THAT ARE EASY TO USE IN ANY APPLICATION.
- CAPTIVE BONNET BOLTS AND SOLENOID PLUNGER - NO LOST PARTS DURING SERVICING.
- ADJUST PRESSURE REGULATOR COMPATIBLE - DIAL SETTING PRESSURE REGULATION FOR PRECISE CONTROL.
- PRESSURE: 20 TO 150 PSI.
- FLOW: 4 TO 120 GPM.
- POWER: 24VAC.

AGRIFIM DURA-FLO PC DRIPPERLINE

- SELF-CLEANING.
- BUILT-IN FILTER SLITS AND RAISED INLET TO MINIMIZE CLOGGING.
- SILICONE DIAPHRAGM.
- OUTSTANDING EMISSION UNIFORMITY.
- DUAL, 180° APART, WATER OUTLET HOLES.
- EMITTERS COLOR CODED FOR EASY FLOW RATE IDENTIFICATION.
- WIDE VARIETY OF SPACINGS AVAILABLE.
- UV STABILIZED.
- AVAILABLE IN BLACK, BROWN OR PURPLE.
- PRESSURE COMPENSATING FROM 10 TO 60 PSI.
- 1/2, 1 OR 2 GPH FLOW RATES AVAILABLE.
- TUBING SIZE OF .600" ID X .700" OD, WALL = .045" AND .550" ID X .640" OD, WALL = .045".
- RECOMMENDED FILTRATION (40 MESH FOR 1/2 GPH, 120 MESH FOR 1 GPH, AND 80 MESH FOR 2 GPH EMITTER).

HUNTER PRO-SPRAY SERIES POPUP SPRAYHEAD

- 4", 6", 12", & 30".
- HEAVY-DUTY BODY AND CAP CONSTRUCTION - MULTI-THREAD BUTTRESS DESIGN WITHSTANDS THE HARSHTEST ENVIRONMENTS.
- PRESSURE ACTIVATED, MULTI-FUNCTION, NO FLOW-BY WIPER SEAL IS EASY TO REMOVE AND CLEAN; TREATED WITH UV INHIBITORS TO ENSURE LONG LIFE.
- COMPATIBLE WITH ALL FEMALE THREADED NOZZLES. ACCEPTS ADJUSTABLE, FIXED AND SPECIALLY NOZZLES FROM HUNTER AND ALL MAJOR BRANDS.
- OPTIONAL FACTORY-INSTALLED DRAIN CHECK VALVE FOR UP TO 7 FEET ELEVATION CHANGE; ELIMINATES LANDSCAPE DAMAGE FROM FLOODING AND EROSION.
- RATCHETING RISER FOR QUICK ARC ALIGNMENT MAKES ADJUSTMENTS WHILE SPRINKLER IS OPERATING.
- HEAVY-DUTY SPRING FOR POSITIVE RETRACTION UNDER ANY CONDITION.
- INNOVATIVE "PULL-UP" FLUSH PLUG DESIGN ALLOWS LIMITED FLOW PERMITTING CONTROLLED DIRECTIONAL FLUSHING.
- PRESSURE: 15 TO 70 PSI.
- 1/2" FEMALE INLET NPT.

MP ROTATOR NOZZLE

- MULTIPLE STREAMS, WORK TOGETHER TO PROMOTE UNIFORMLY GREEN TURF AND HEALTHIER PLANTS.
- MATCHED APPLICATION RATES: WORK WITH ANY ARC, ANY RADIUS.
- WIND-RESISTANT, MULTI-TRAJECTORY STREAMS: APPLY WATER MORE SLOWLY AND UNIFORMLY THAN CONVENTIONAL SPRAYS; USE 30 PERCENT LESS WATER AND GREATLY REDUCE RUNOFF.
- PATENTED "DOUBLE-POP" DESIGN: FLUSHES ON START-UP AND SHUT-DOWN TO KEEP SPRINKLER FREE FROM DEBRIS.
- RADIUS/ARC ADJUSTMENTS: QUICK, EASY ARC AND RADIUS ADJUSTMENTS. NO DUFFUSER SCREW. WON'T CAUSE STREAM DISTORTION.
- COLOR-CODED SYSTEM, EASY ID FOR ALL MODELS.
- TWO PARALLEL LINES WITH 12 MOVIES EACH; FEMALE THREADED LINE FOR CONVENTIONAL MALE THREADED RISERS. MALE THREADED LINE FIT EXISTING FEMALE THREADED BODIES.
- REMOVABLE INLET FILTER: PROTECTS SPRINKLER FROM INTERNAL DEBRIS.
- ADJUSTS FROM A 4" STRIP TO A 30" RADIUS. OFFER BALANCED SYSTEM WITH ULTIMATE FLOW FLEXIBILITY.
- FITS PERFECTLY ON ALL THE AVAILABLE HUNTER SPRAY BODIES.
- SIZES: MP 1000, MP 2000, MP 3000, STRIPS AND CORNERS.

RAIN BIRD QUICK-COUPLING VALVES

- RED BRASS CONSTRUCTION FOR LONG LIFE AND RUGGED PERFORMANCE.
- YELLOW THERMOPLASTIC COVER FOR DURABILITY. OPTIONAL LOCKING COVER ON MODELS 33DR, 44RC, AND 5LR (USE 2049 KEY TO UNLOCK). METAL COVER ON MODEL 7 ONLY.
- ONE-PIECE BODY DESIGN (MODELS 3RC, 5RC, AND 7).
- TWO-PIECE BODY DESIGN FOR EASY SERVICING (MODELS 33DR, 44RC, AND 44RC).
- STRONG CORROSION-RESISTANT STAINLESS STEEL SPRING PREVENTS LEAKAGE.
- PRESSURE: 5 TO 125 PSI.
- FLOW: 10 TO 125 GPM.
- MODELS:
 - 3RC: 3/4" RUBBER COVER, 1-PIECE BODY.
 - 33DR: 3/4" DOUBLE TRACK KEY LUG, RUBBER COVER, 2-PIECE BODY.
 - 33DR: 3/4" DOUBLE TRACK KEY LUG, LOCKING RUBBER COVER, 2-PIECE BODY.
 - 44RC: 1" RUBBER COVER, 2-PIECE BODY.
 - 44RC: 1" LOCKING RUBBER COVER, 2-PIECE BODY.
 - 5RC: 1" RUBBER COVER, 1-PIECE BODY.
 - 5LR: 1" LOCKING RUBBER COVER, 1-PIECE BODY.
 - 7: 1 1/2" METAL COVER, 1-PIECE BODY.

RAIN BIRD IN-LINE WYE FILTER

- POLYPROPYLENE CONSTRUCTION PROVIDES 150 PSI PRESSURE RATING AND PERMITS FILTER INSTALLATION UPSTREAM OF IRRIGATION CONTROL VALVE.
- REPLACEMENT FILTER ELEMENTS ARE CONSTRUCTED OF POLYESTER MESH WELDED TO A COLOR-CODED POLYPROPYLENE FRAME.
- FILTER ELEMENTS ARE AVAILABLE IN 200-MESH (75-MICRON) AND 150-MESH (100 MICRON).
- CAP, WITH SEALING O-RING, UNTHREADS TO PROVIDE ACCESS TO FILTER ELEMENT FOR EASY CLEANING.
- FLOW:
 - 3/4" UNITS: 0.20 TO 12.0 GPM.
 - 1" UNITS: 0.20 TO 18.0 GPM.
- PRESSURE: 20 TO 150 PSI.

SENNINGER SERIES PRESSURE REGULATORS

- PRESSURE MASTER PRE-SET REGULATORS MAINTAIN A CONSTANT OUTLET PRESSURE WHILE HANDLING INLET PRESSURES UP TO 150 PSI.
- PROTECTS LINE AND EMISSION DEVICES FROM UPSTREAM PRESSURE FLUCTUATION.
- DAMPENS WATER HAMMER.
- CAN BE INSTALLED EITHER ABOVE OR BELOW GRADE.
- FACTORY PRE-SET NO ADJUSTMENTS EVER NEEDED.
- REACTS QUICKLY TO CHANGES IN LINE PRESSURE (VERY LOW HYSTERESIS PROPERTIES).
- STRONG, DURABLE CONSTRUCTION OF HIGH-IMPACT ENGINEERING-GRADE THERMOPLASTICS WITH STAINLESS STEEL COMPRESSION SPRING AND SECURING SCREWS.
- 100% WATER TESTED FOR ACCURACY.
- TWO-YEAR WARRANTY ON MATERIALS, WORKMANSHIP AND PERFORMANCE.

PROJECT CONDITIONS

- PERFORM SITE SURVEY, RESEARCH PUBLIC UTILITY RECORDS, AND VERIFY EXISTING UTILITY LOCATIONS. VERIFY THAT IRRIGATION SYSTEM PIPING MAY BE INSTALLED IN COMPLIANCE WITH ORIGINAL DESIGN AND THEREAFTER STANDARDS.

WATER SOURCE

- INSTALLER SHOULD CONFIRM THE MINIMUM DISCHARGE REQUIREMENTS OF THE WATER SOURCE AS INDICATED ON THE DRAWING LEGEND PRIOR TO INSTALLATION.
- IF SOURCE IS LESS THAN MINIMUM REQUIREMENT, CONSULT WITH A DESIGNER FOR POSSIBLE HYDRAULIC CHANGES.

BACKFLOW PREVENTER

- DESIGN UTILIZES A PRESSURE VACUUM BREAKER BACKFLOW PREVENTER DEVICE, MOUNTED 1' ABOVE THE HIGHEST SPRINKLER ON THE SITE. INSTALLER MUST CONFORM WITH THE LOCAL WATER AUTHORITY, THEIR APPROVED TYPE DEVICE AND INSTALLATION METHODS IN ORDER TO CONFORM WITH LOCAL CODES. IF A DIFFERENT TYPE DEVICE IS USED, CONSULT WITH A DESIGNER FOR POSSIBLE HYDRAULIC CHANGES.

SLEEVING

- A MINIMUM OF PR-200 PVC SLEEVES SHOULD BE USED UNDER ANY HARDSCAPING. (EXAMPLE: SIDEWALKS AND DRIVES).
- SLEEVES TO BE A MINIMUM OF (2) PIPE SIZES LARGER THAN THE PIPE RUNNING THROUGH IT.
- A SEPARATE SLEEVE IS RECOMMENDED FOR WIRE.
- WHERE MAINLINE AND WIRE ARE ROUTED THROUGH A COMMON SLEEVE/BORE, WIRE TO BE INSTALLED IN A SEPARATE INNER CONDUIT.

PIPE AND FITTINGS

- ALL PIPE 1" OR SMALLER TO BE PR-200 SDR-21 SOLVENT WELD PVC PIPE.
- ALL PIPE 1 1/4" OR LARGER TO BE PR-160 SDR-26 SOLVENT WELD PVC PIPE.
- ALL PVC PIPE FITTINGS TO BE SCHEDULE 40, SOCKET-TYPE.
- PVC PIPE AND FITTINGS SOLVENT-CEMENTED JOINTS TO BE CONSTRUCTED UTILIZING CLEANER, PURPLE PRIMER, AND SOLVENT CEMENTS.
- GENERAL LOCATIONS AND ARRANGEMENTS: DRAWINGS INDICATED GENERAL LOCATION AND ARRANGEMENT OF PIPING SYSTEMS. INDICATED LOCATIONS AND ARRANGEMENTS WERE USED FOR DESIGN LEGIBILITY, TO SIZE PIPE AND CALCULATE FRICTION LOSS, AND OTHER DESIGN CONSIDERATIONS.
- MINIMUM COVER: PROVIDE THE FOLLOWING MINIMUM COVER OVER TOP OF BURIED PIPING OR 12" BELOW THE AVERAGE LOCAL FROST DEPTH, WHICHEVER IS THE GREATER DEPTH.
 - PRESSURE PIPING: 18" OF COVER FOR PIPE 2 1/2" AND SMALLER; 24" FOR PIPE 3" AND 4"; AND 30" FOR PIPE 6" AND LARGER.
 - CIRCUIT PIPING: 18" OF COVER FOR CIRCUIT PIPE.
 - DRAIN PIPING: 18" OF COVER FOR PIPE 4" AND SMALLER; 24" FOR PIPE 6" AND LARGER.
 - SLEEVES: 24" OF COVER FOR PIPE 6" AND SMALLER; 30" FOR PIPE 8" AND LARGER.
- PRIOR APPROVAL BY LANDSCAPE ARCHITECT MUST BE OBTAINED FOR ALL TRENCING AROUND EXISTING SPECIMEN/LARGE TREES.
- ONLY HAND TRENCING WILL BE ALLOWED WITHIN THE "TREE SAVE" AREAS.

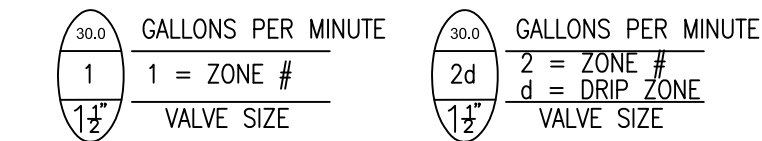
SCHEDULING

- ADJUST SETTINGS OF CONTROLLERS AND AUTOMATIC CONTROL VALVES, AND PROVIDE WRITTEN SCHEDULE TO OWNER.

WIRING

- SOLID COPPER CONDUCTOR, INSULATED CABLE, SUITABLE FOR DIRECT BURIAL.
- LOW-VOLTAGE, BRANCH CIRCUIT CABLES: TYPE PE, NO. 14 AWG MINIMUM, BETWEEN CONTROLLERS AND AUTOMATIC CONTROL VALVES. JACKET COLOR IS OTHER THAN FEEDER-CIRCUIT-CABLE JACKET COLOR.
- SPLICING MATERIALS: 3M DBR/Y OR APPROVED EQUAL.

VALVE/ZONE IDENTIFICATION



SPRINKLER INSTALLATION

- LOCATION OF SPRINKLERS AND DEVICES: DESIGN LOCATION IS APPROXIMATE. MINOR FIELD ADJUSTMENTS MAY BE NECESSARY TO AVOID PLANTINGS AND OBSTRUCTIONS SUCH AS SIGNS AND LIGHT STANDARDS.
- SPRINKLERS TO BE SPACED NO GREATER THAN 50% - 55% OF DIAMETER OF THROW AT OPTIMUM PERFORMANCE PRESSURE. THIS WILL ACHIEVE "HEAD TO HEAD" COVERAGE PERFORMANCE.
- FLUSH CIRCUIT PIPING WITH FULL HEAD OF WATER AND INSTALL SPRINKLERS AFTER HYDROSTATIC TEST IS COMPLETE.
- INSTALL LAWN SPRINKLERS AT MANUFACTURER'S RECOMMENDED HEIGHTS.
- INSTALL SHRUBBERY SPRINKLERS AT HEIGHTS INDICATED.
- LOCATE PART-CIRCLE SPRINKLERS TO MAINTAIN A MINIMUM DISTANCE OF 6" FROM WALLS AND 3" FROM OTHER BOUNDARIES (SIDEWALKS, CURBS) UNLESS OTHERWISE INDICATED.
- CAREFULLY ADJUST LAWN SPRINKLERS SO THEY WILL BE FLUSH WITH, OR NOT MORE THAN 1/2" ABOVE, FINISH GRADE AFTER COMPLETION OF LANDSCAPE WORK.
- CAREFULLY ADJUST ALL SPRINKLERS IN MULCH AREAS SO THEY WILL BE FLUSH AND FLUSH WITH TOP OF MULCH GRADE.
- ALL SPRAYHEAD NOZZLES INDICATED ON PLAN.
- USE VANS (VARIABLE ARC NOZZLE) WHERE INDICATED ON PLAN.

VALVE INSTALLATION

- ALL VALVES (MANUAL AND ELECTRIC) TO BE INSTALLED IN A NDS #212BC 10" ROUND PRO SERIES VALVE BOX WITH LID (UNLESS OTHERWISE NOTED).
- CONTRACTOR TO ADJUST THE FLOW CONTROL HANDLE IN ORDER TO ACHIEVE PROPER VALVE OPERATION AND OPTIMUM SPRINKLER PERFORMANCE.
- VALVES SHALL NOT BE PLACED WITHIN 5 FEET OF ANY DRIVEWAY, OR WHERE THEY CAN BE DAMAGED BY VEHICLES.

DRIP INSTALLATION

- THIS DESIGN UTILIZES AN INLINE PRESSURE COMPENSATING DRIPPERLINE IN A GRID LAYOUT. THE EMITTERS ARE INCORPORATED AT 18" INTERVALS ALONG THE TUBING AND THE LINES ARE SPACED 18" BETWEEN ROWS (SEE DETAIL). EACH EMITTER OUTPUT IS 1.0 GPH. THIS GRID LAYOUT TO BE USED WITH LOAM AND CLAY SOIL TYPES. SPACING MAY NEED TO BE REDUCED OR SOIL NEEDS TO BE AMENDED FOR SANDY SOIL IN ORDER TO INCREASE THE MOVEMENT OF THE WATER IN THE SOIL PROFILE AND WATER HOLDING CAPACITY.
- NO DRIPPERLINE RUN TO EXCEED 225' FROM CONNECTION TO PVC LATERAL HEADER PIPE.
- ZONES BASED ON A MINIMUM OF 30 PSI.

ELEVATION

- THE PRESSURE REQUIREMENT OF THE WATER SOURCE IS BASED ON NO MORE THAN 2 FEET OF RISE IN ELEVATION FROM WATER SOURCE THROUGHOUT THE IRRIGATION COVERAGE AREA. IF SITE HAS GREATER ELEVATION CHANGE, CONSULT WITH DESIGNER FOR POSSIBLE HYDRAULIC CHANGE.

ITEM	SYMBOL	DESCRIPTION
1		EXISTING HUNTER PC-1300 SERIES MODULAR CONTROLLER (ADDITIONAL MODULES MAY BE REQUIRED FOR THIS PHASE)
2		EXISTING HUNTER WRF SERIES WIRELESS RAIN/FREEZE-CLIK
3		HUNTER PGV-101 SERIES ELECTRIC VALVE
4		HUNTER PGV-101 SERIES ELECTRIC VALVE, RAIN BIRD RBY100MPTX SERIES 1" IN-LINE WYE FILTER, AND SENNINGER PR-100-M-30 SERIES 1" PRESSURE REGULATOR
5		HUNTER PRO-04 SERIES 4" POPUP SPRAYHEAD WITH MP ROTATOR NOZZLE
6		FIGURE 8 END CLOSURE
7		AGRIFIM (0.5 GPH X 12" SPACING) 1/4" DURA FLO JR IN-LINE EMITTER DRIPPERLINE (RAISED PLANTERS)
8		AGRIFIM (1 GPH X 18" SPACING) PRESSURE COMPENSATING IN-LINE EMITTER DRIPPERLINE
9		EXISTING WILKINS MODEL 720A 3/4" PRESSURE VACUUM BREAKER BACKFLOW PREVENTER
10		EXISTING 5/8" METER
11		RAIN BIRD #5-RC SERIES QUICK COUPLING VALVE
12		ALL LATERAL PIPE TO BE 1" PR-200 SOLVENT WELD PVC (UNLESS OTHERWISE NOTED)
13		SOLVENT WELD PR-160 PVC MAINLINE PIPE (SEE DESIGN)
14		SCHEDULE 40 SLEEVE

WATER SOURCE: 5/8" METER TO PROVIDE A MINIMUM DISCHARGE OF 14 GPM AT 50 PSI FOR SYSTEM TO OPERATE PROPERLY.

