

# Kiawah Island

## SITE DEVELOPMENT

OF

# CAPE POINT PARKING AND EMERGENCY BEACH ACCESS

CHARLESTON COUNTY, SOUTH CAROLINA

PREPARED FOR:

KRA, LP

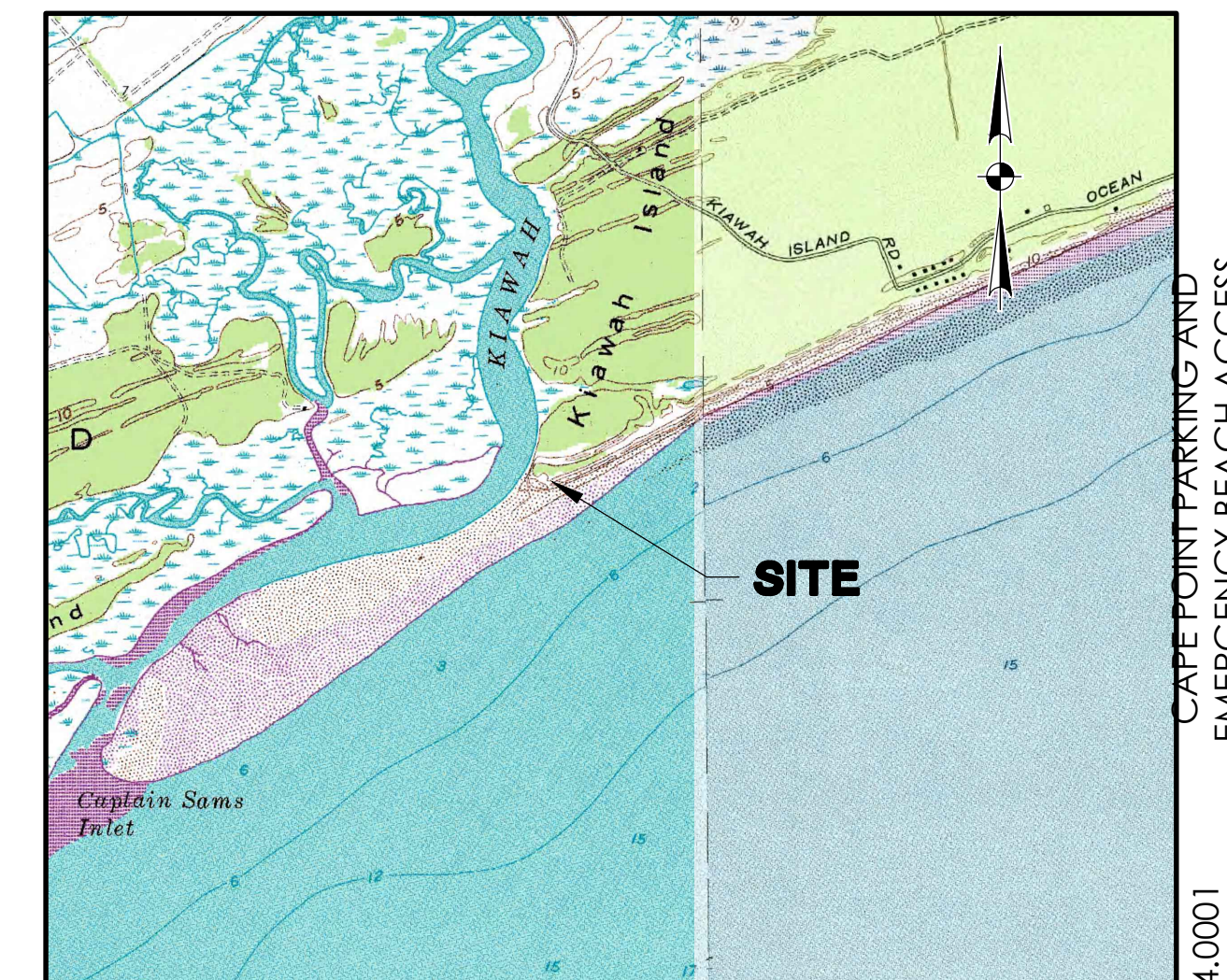
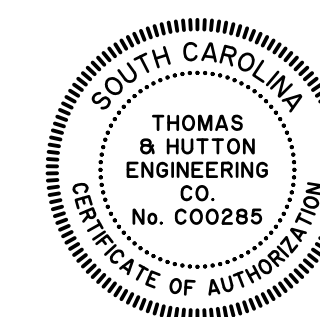
1 KIAWAH ISLAND PARKWAY  
KIAWAH ISLAND, SC 29455  
(843) 768-3418

TM# 207-05-00-011

NOVEMBER 20, 2023

J-25854.0001

PREPARED BY:



VICINITY MAP  
SCALE: 1" = 2000'

J-25854.0001  
11/20/23

### REVISION HISTORY

REV. NO.	REVISION	BY	DATE

### SUBMITTAL HISTORY

SUBMITTED TO	DATE



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Brunswick, GA 31520  
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ABBREVIATIONS					
HDPE	HIGH DENSITY POLYTHELENE	LF	LINEAR FEET	SF	SQUARE FEET
BOT	BOTTOM	MAX	MAXIMUM	SS	SANITARY SEWER
CI	CURB INLET	MIN	MINIMUM	TC	TOP OF CURB
CPP	CORRUGATED PLASTIC PIPE	MH	MANHOLE	TG	TOP OF GUTTER
DIP	DUCTILE IRON PIPE	OC	ON CENTER	TP	TOP OF PAVEMENT
EL	ELEVATION	PC	POINT OF CURVE	TW	TOP OF WALK
FG	FINISH GRADE	PH	POST HYDRANT	TYP	TYPICAL
FH	FIRE HYDRANT	PT	POINT OF TANGENT	W	WATER
FM	FORCE MAIN (SANITARY SEWER)	PVC	POLYVINYL CHLORIDE	W/	WITH
FR	FRAME	RCP	REINFORCED CONCRETE PIPE	WV	WATER VALVE
GI	GRATE INLET	RJP	RESTRAINED JOINT PIPE	YI	YARD INLET
GV	GATE VALVE	R/W	RIGHT-OF-WAY		
INV	INVERT ELEVATION	SD	STORM DRAINAGE		
JB	JUNCTION BOX	SDMH	STORM DRAINAGE MANHOLE		

DRAINAGE LEGEND		
DESCRIPTION	EXISTING	PROPOSED
PIPE	---	---
DITCH		→
CURB INLET	⊗	⊗
GRATE INLET	⊞	⊞
JUNCTION BOX	⊗	⊗
OUTLET STRUCTURE	□	■



**PROJECT MAP**

SCALE: 1" = 400'

**GENERAL NOTES**

- SURVEYING AND BOUNDARY INFORMATION BY SWA SURVEYING, LLC.
- ALL ELEVATIONS SHOWN ARE BASED ON NGVD 1929.
- TOPOGRAPHIC SURVEY BY SWA SURVEYING, LLC.
- CONTRACTOR IS TO VERIFY ACCURACY OF ANY TEMPORARY BENCHMARKS SHOWN PRIOR TO UTILIZING THEM FOR CONSTRUCTION.
- THE EXISTING UNDERGROUND UTILITIES SHOWN HEREON ARE BASED UPON AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES OTHER THAN THOSE SHOWN ARE ENCOUNTERED DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY AND TAKE STEPS TO PROTECT THE LINE(S) AND ENSURE CONTINUED SERVICE. DAMAGE CAUSED TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR. ADDITIONALLY, THE CONTRACTOR SHALL CONFIRM THE CONNECTION POINTS OF NEW UTILITIES TO EXISTING UTILITIES PRIOR TO BEGINNING NEW CONSTRUCTION.
- IF WORK IS SUSPENDED OR DELAYED FOR 14 DAYS, THE CONTRACTOR SHALL TEMPORARILY STABILIZE THE DISTURBED AREA AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL INSTALL ANY BARRICADES PRIOR TO BEGINNING CONSTRUCTION
- THE FOLLOWING NOTES ARE SPECIFIED BY THE KICA AND ARE TO BE EXECUTED BY THE CONTRACTOR FOR STREETS IN THE PROJECT WHICH ARE TO BE DEEDED TO KICA:
  - ANY DAMAGE TO EXISTING PAVEMENT MUST BE REPAIRED AT CONTRACTORS EXPENSE AND TO THE SATISFACTION OF KICA AND THE PROJECT ENGINEER.
  - ALL RIGHT-OF-WAY AND DRAINAGE EASEMENT CONSTRUCTION SHALL MEET TOWN OF KIAWAH ISLAND STANDARD SPECIFICATIONS UNLESS SPECIFIED ELSEWHERE AND APPROVED IN WRITING BY THE TOWN.
  - WHERE FIELD INSPECTIONS ARE REQUIRED BY THE TOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEERING DIVISION A MINIMUM OF 48 HOURS IN ADVANCE TO SCHEDULE SUCH INSPECTIONS.
  - A COMPLETE SET OF APPROVED DRAWINGS AND SPECIFICATIONS MUST BE MAINTAINED ON SITE AT ALL TIMES THAT THE CONTRACTOR IS PERFORMING WORK. THESE DRAWINGS SHALL BE MADE AVAILABLE UPON REQUEST.
  - ANY REVISIONS DURING CONSTRUCTION WHICH ALTER THE ROAD LAYOUT, CONSTRUCTION METHODS, RIGHT-OF-WAY LOCATION OR DRAINAGE MUST BE SUBMITTED AND APPROVED IN WRITING BY THE PROJECT ENGINEER.
  - THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL CONSTRUCTION PERMITS NECESSARY FROM OTHER RESPONSIBLE AGENCIES.
  - ALL TREES SHOWING DISTURBANCE WITHIN THE PROTECTED ROOT ZONE SHALL BE PRUNED AND FERTILIZED BY A CERTIFIED ARBORIST PRIOR TO RECEIVING FINAL PLAT APPROVAL (THIS WORK WILL BE DONE BY THE OWNER OUTSIDE OF THE CONTRACT.)
  - LAKE CONTOURS SHOWN HEREIN WILL PROVIDE A DEPTH ONE FOOT GREATER THAN NECESSARY FOR STORM WATER MANAGEMENT. THIS IS TO PROVIDE FOR ONE FOOT OF SILT BUILDUP DURING CONSTRUCTION OF ANY AREA OF ANY POND WHICH SILTS MORE THAN ONE FOOT ABOVE DESIGNED BOTTOM ELEVATION SHALL BE RESTORED TO THE MINIMUM ACCEPTABLE DEPTH OF ONE FOOT LESS THAN ORIGINAL CONSTRUCTED DEPTH.
  - ALL ABOVE GROUND UTILITIES ARE TO BE OUTSIDE OF THE R/W AND ALL AT GRADE UTILITIES ARE TO BE OUT OF THE CURB LINE.
- THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL AND PREVENTION STRUCTURES SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF UNSUITABLE MATERIAL IS DISCOVERED PRIOR TO BEGINNING ANY REMOVAL OPERATION.
- CONTRACTOR SHALL GRADE AREAS TO DRAIN FOR POSITIVE FLOW PRIOR TO FINAL APPROVAL.
- ALL TRAFFIC CONTROL SIGNS AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MANUAL ON "UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" AND "SOUTH CAROLINA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" BOTH CURRENT EDITIONS.
- ALL DRAINAGE WILL BE MADE FUNCTIONAL DAILY AS WORK PROGRESSES.
- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH TOWN OF KIAWAH ISLAND RODE CODE.

WATER LEGEND		
DESCRIPTION	EXISTING	PROPOSED
WATER MAIN	10"W	10"W
SINGLE SERVICE LATERAL	---	---
DOUBLE SERVICE LATERAL	---	---
VALVE AND BOX	⊗	⊗
FIRE HYDRANT W/VALVE & BOX	⊗	⊗
POST HYDRANT	⊗	⊗
REDUCER	△	△
BACKFLOW PREVENTOR	⊞	⊞
CROSS	⊞	⊞
TEE	⊞	⊞
90° BEND - HORIZONTAL	└┘	└┘
45° BEND - HORIZONTAL	└┘	└┘
22-1/2° BEND - HORIZONTAL	└┘	└┘
11-1/4° BEND - HORIZONTAL	└┘	└┘
BEND - VERTICAL	└┘	└┘
CAP	└┘	└┘

SEWER LEGEND		
DESCRIPTION	EXISTING	PROPOSED
GRAVITY PIPE	SS	SS
SINGLE SERVICE LATERAL	---	---
DOUBLE SERVICE LATERAL	---	---
MANHOLE	○	●
CLEANOUT	○	●

**OTHER UTILITIES LEGEND**

DESCRIPTION	EXISTING
NATURAL GAS	UGG UGG
TELEPHONE	OHT OHT
UNDERGROUND TELEPHONE	UTL UTL
ELECTRICITY	OHP OHP
UNDERGROUND ELECTRICITY	UGP UGP

**GENERAL INFORMATION**

COUNTY: CHARLESTON  
 TOWN: TOWN OF KIAWAH ISLAND  
 ZONING: R2 ZONING DISTRICT  
 TMS: 207-05-00-011  
 FLOOD: ZONE AE ELEV. 14  
 PERMIT: 10-II-03-17J SCRI04228

OWNER:  
 KRA, LP  
 1 KIAWAH ISLAND PARKWAY  
 KIAWAH ISLAND, SC 29455  
 (843) 768-3418

ENGINEER:  
 THOMAS & HUTTON  
 682 JOHNNIE DODDS BLVD.  
 MT. PLEASANT, SC 29464  
 (843) 849-0200

**SURVEYOR:**

SWA SURVEYING, LLC  
 1035-B JENKINS ROAD  
 P.O. BOX 81085  
 CHARLESTON, SC 29416

PREPARED FOR:  
**KRA, LP**  
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 KIAWAH ISLAND, SC 29455  
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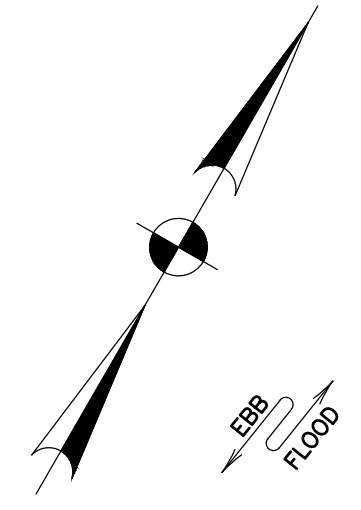
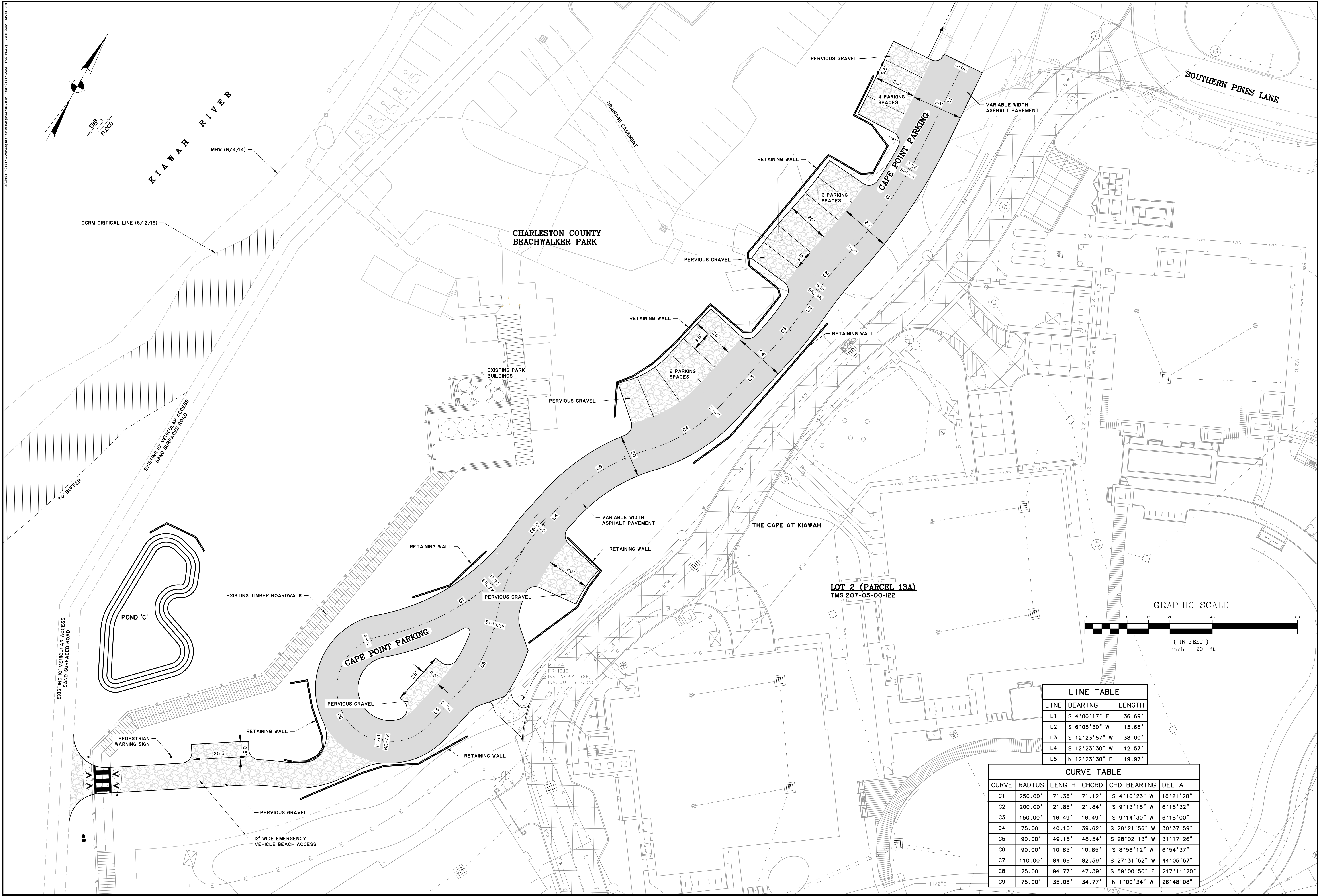
NO.	REVISIONS	BY	DATE

**THOMAS & HUTTON**  
 Engineering | Surveying | Planning | GIS | Consulting  
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 Mt. Pleasant, SC 29464 • 843.849.0200  
 www.thomasandhutton.com

KRA, LP  
 CHARLESTON COUNTY, SOUTH CAROLINA  
 CAPE POINT PARKING AND EMERGENCY BEACH ACCESS  
 GENERAL NOTES AND PROJECT MAP

JOB NO:	J-25854.0001
DATE:	11/20/23
DRAWN:	LMD
DESIGNED:	LMD
REVIEWED:	DJJ
APPROVED:	DJJ
SCALE:	AS SHOWN

**GO.1**



KIAWAH RIVER

OCRM CRITICAL LINE (5/12/16)

EXISTING VEHICULAR ACCESS SAND SURFACED ROAD

POND 'C'

EXISTING VEHICULAR ACCESS SAND SURFACED ROAD

PEDESTRIAN WARNING SIGN

EXISTING TIMBER BOARDWALK

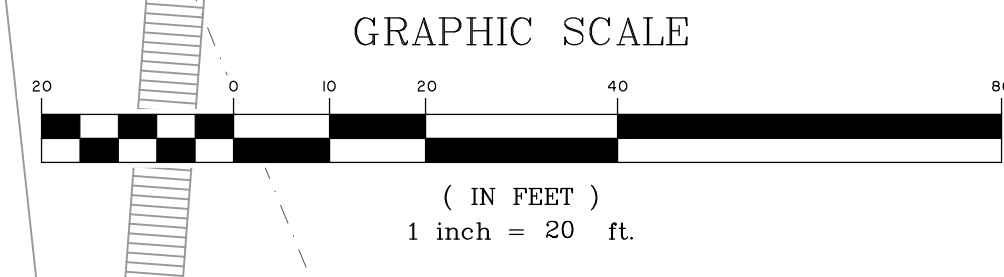
12' WIDE EMERGENCY VEHICLE BEACH ACCESS

CHARLESTON COUNTY BEACHWALKER PARK

THE CAPE AT KIAWAH

LOT 2 (PARCEL 13A)  
TMS 207-05-00-122

SOUTHERN PINES LANE



LINE	BEARING	LENGTH
L1	S 4°00'17" E	36.69'
L2	S 6°05'30" W	13.66'
L3	S 12°23'57" W	38.00'
L4	S 12°23'30" W	12.57'
L5	N 12°23'30" E	19.97'

CURVE	RADIUS	LENGTH	CHORD	CHD BEARING	DELTA
C1	250.00'	71.36'	71.12'	S 4°10'23" W	16°21'20"
C2	200.00'	21.85'	21.84'	S 9°13'16" W	6°15'32"
C3	150.00'	16.49'	16.49'	S 9°14'30" W	6°18'00"
C4	75.00'	40.10'	39.62'	S 28°21'56" W	30°37'59"
C5	90.00'	49.15'	48.54'	S 28°02'13" W	31°17'26"
C6	90.00'	10.85'	10.85'	S 8°56'12" W	6°54'37"
C7	110.00'	84.66'	82.59'	S 27°31'52" W	44°05'57"
C8	25.00'	94.77'	47.39'	S 59°00'50" E	217°11'20"
C9	75.00'	35.08'	34.77'	N 1°00'34" W	26°48'08"

NO.	REVISIONS	BY	DATE

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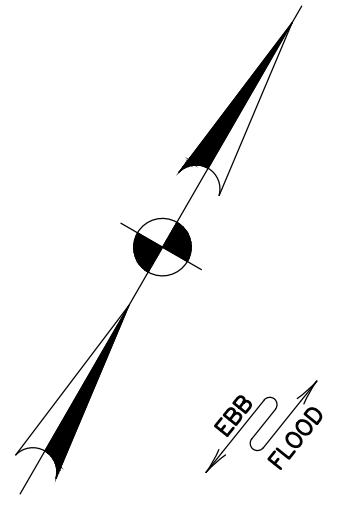
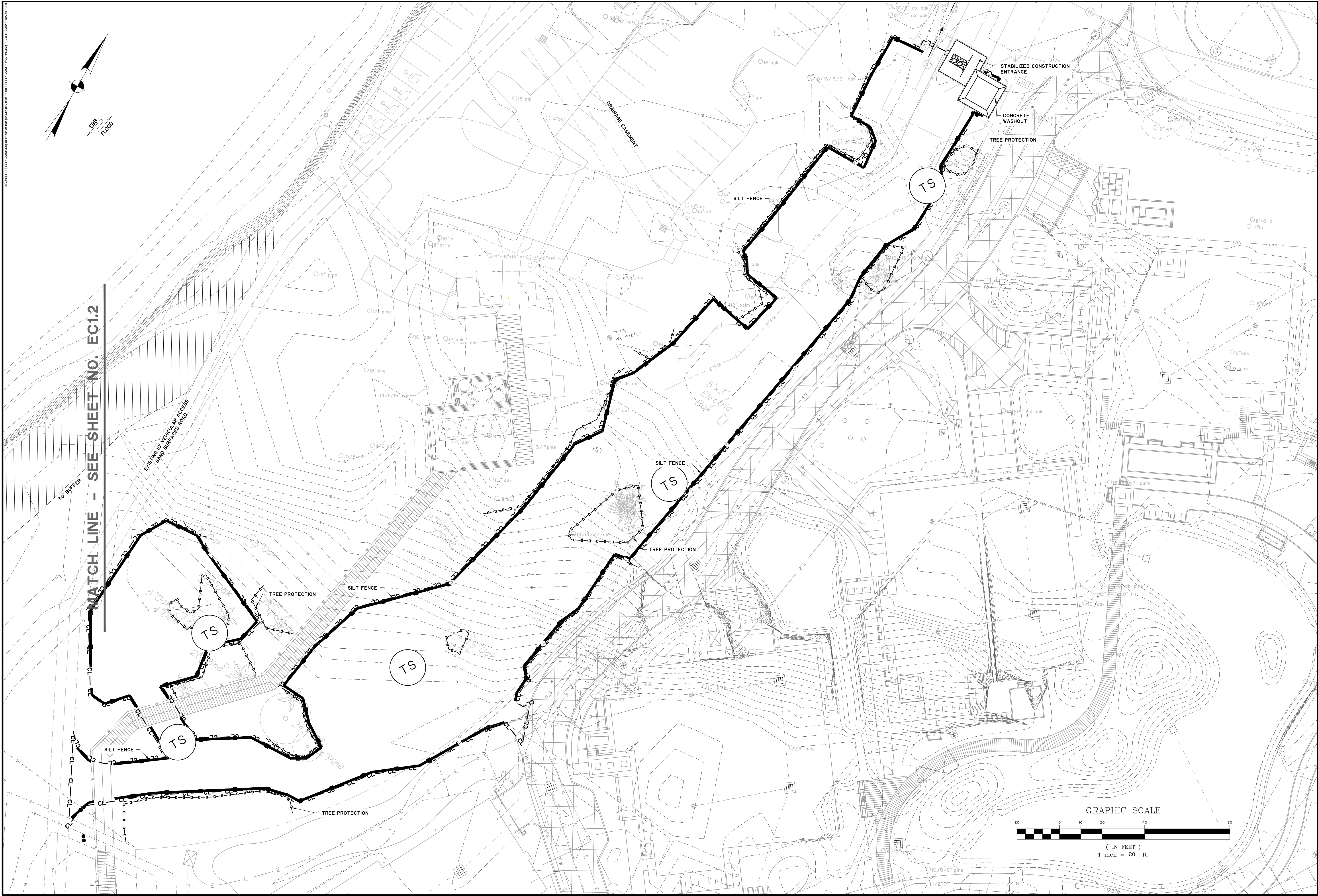
**KRA, LP**  
 CHARLESTON COUNTY, SOUTH CAROLINA  
 CAPE POINT PARKING AND EMERGENCY BEACH ACCESS  
 STAKING AND SIGNAGE OVERALL PLAN

JOB NO: J-25854.0001  
 DATE: 11/20/23  
 DRAWN: LMD  
 DESIGNED: LMD  
 REVIEWED: DJJ  
 APPROVED: DJJ  
 SCALE: AS SHOWN

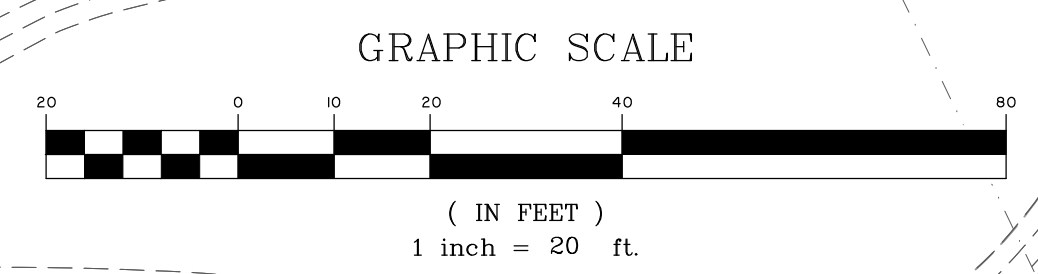
**GO.2**







MATCH LINE - SEE SHEET NO. EC1.2



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**KRA, LP**  
 CHARLESTON COUNTY, SOUTH CAROLINA  
 CAPE POINT PARKING AND EMERGENCY BEACH ACCESS  
 SWPPP - INITIAL PHASE

JOB NO: J-25854.0001  
 DATE: 11/20/23  
 DRAWN: LMD  
 DESIGNED: LMD  
 REVIEWED: DJJ  
 APPROVED: DJJ  
 SCALE: AS SHOWN

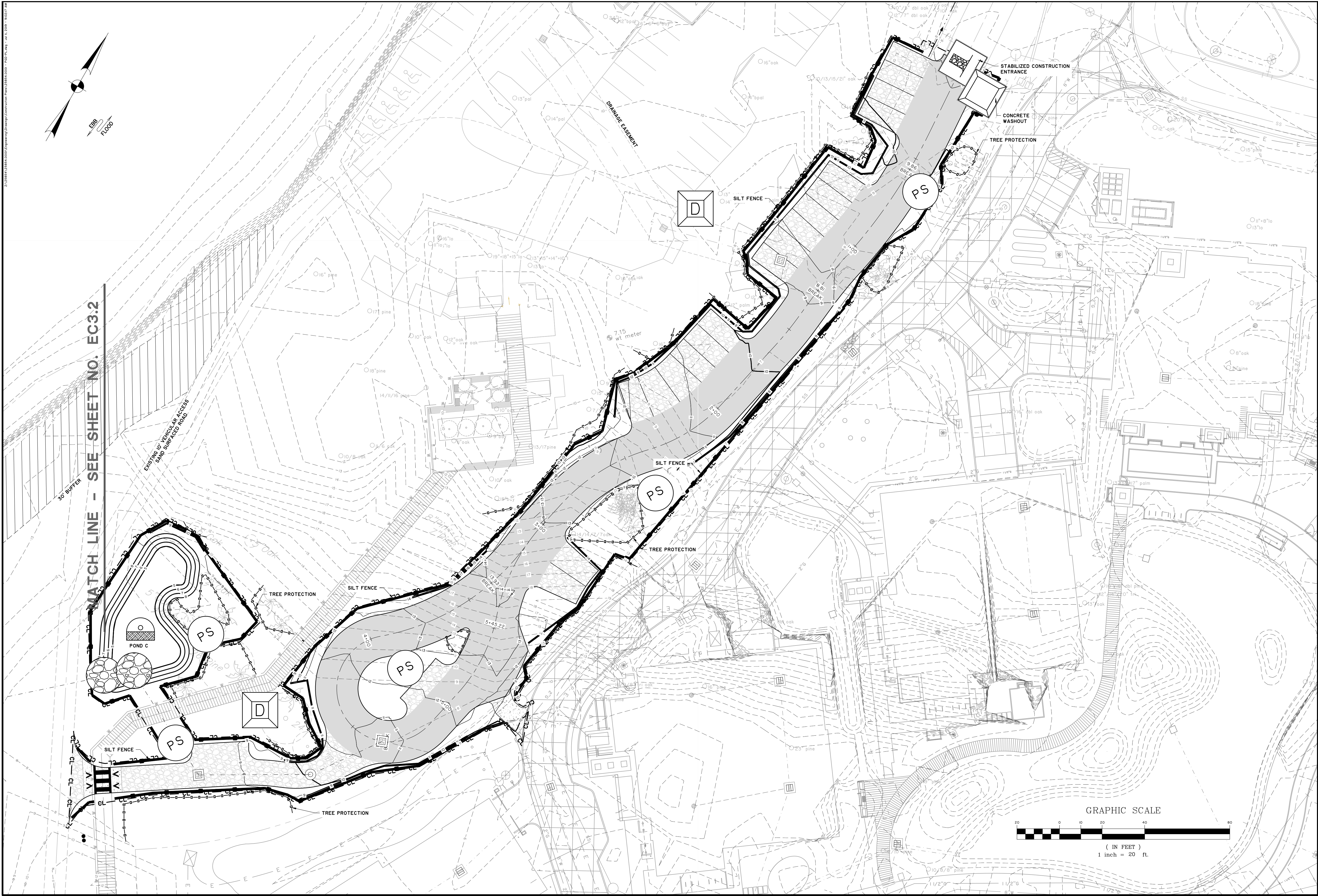
**EC1.1**











MATCH LINE - SEE SHEET NO. EC3.2

NO.	REVISIONS	BY	DATE

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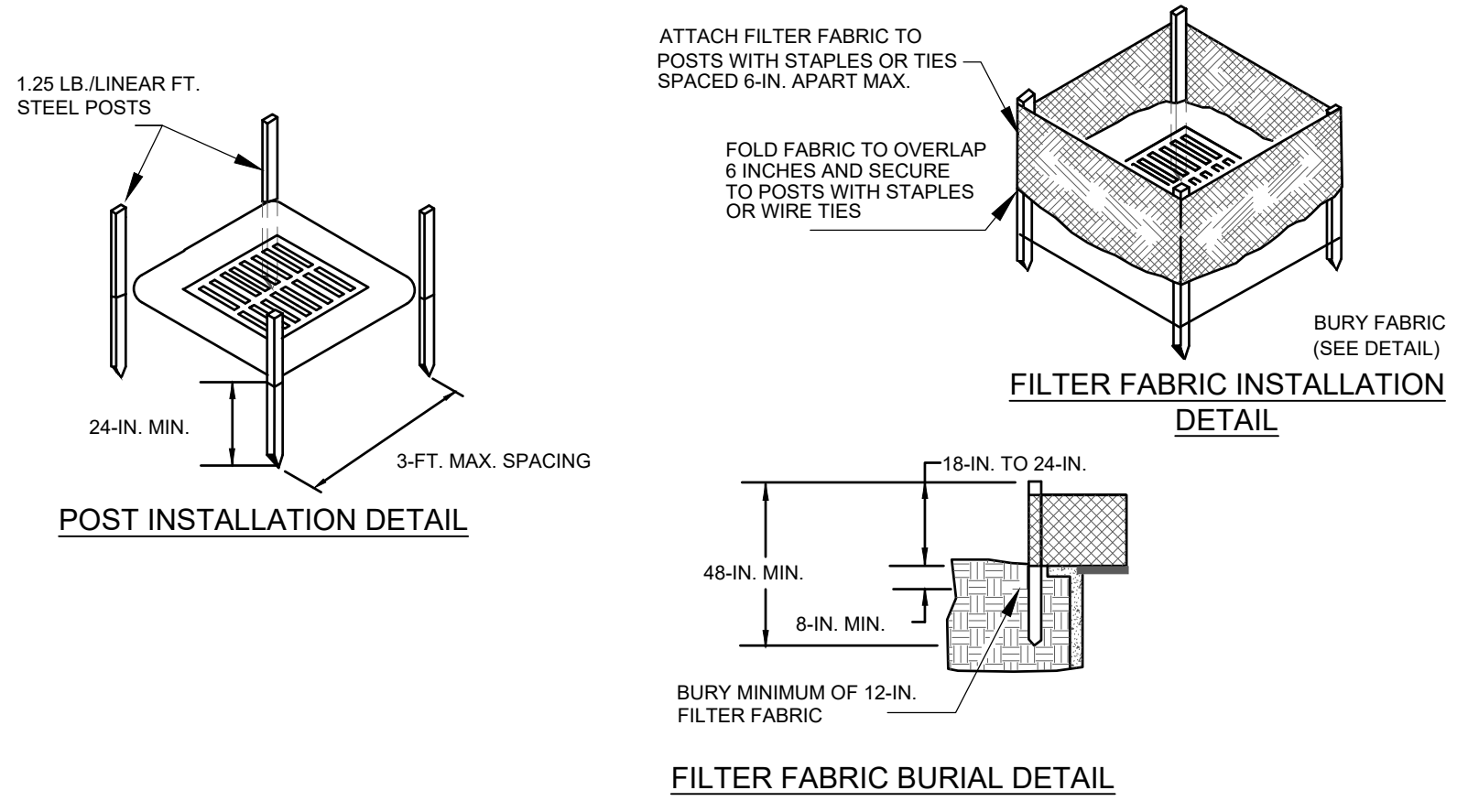
**KRA, LP**  
 CHARLESTON COUNTY, SOUTH CAROLINA  
 CAPE POINT PARKING AND EMERGENCY BEACH ACCESS  
 SWPPP - STABILIZATION PHASE

JOB NO: J-25854.0001  
 DATE: 11/20/23  
 DRAWN: LMD  
 DESIGNED: LMD  
 REVIEWED: DJJ  
 APPROVED: DJJ  
 SCALE: AS SHOWN

**EC3.1**



23/25854/25854/000/Engineering/Drawings/Construction/Plans/25854/000 - EC-4.1.dwg - 01/19/2023 10:58:22 AM



**MATERIALS:**  
USE FILTER FABRIC THAT CONFORMS TO SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION).

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

**INSTALLATION:**  
EXCAVATE A TRENCH 6-INCHES WIDE AND 6-INCHES DEEP AROUND THE OUTSIDE PERIMETER OF THE INLET UNLESS THE FABRIC IS PNEUMATICALLY INSTALLED.  
EXTEND THE FILTER FABRIC A MINIMUM OF 12-INCHES INTO THE TRENCH. BACKFILL THE TRENCH WITH SOIL OR CRUSHED STONE AND COMPACT OVER THE FILTER FABRIC UNLESS THE FABRIC IS PNEUMATICALLY INSTALLED.

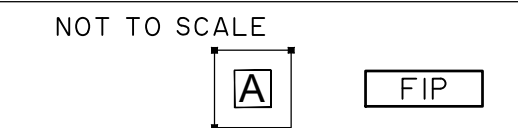
USE STEEL POSTS WITH A MINIMUM POST LENGTH OF 60-INCHES CONSISTING OF STANDARD "T" SECTIONS WITH A WEIGHT OF 1.25 POUNDS PER FOOT (± 8%).  
INSTALL THE FILTER FABRIC TO A MINIMUM HEIGHT OF 24-INCHES ABOVE GRADE. SPACE THE STEEL POSTS AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3- FEET APART AND DRIVE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

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

**INSPECTION AND MAINTENANCE:**  
SEDIMENT SHOULD BE REMOVED WHEN IT REACHES APPROXIMATELY 1/3 THE HEIGHT OF THE FENCE. TAKE CARE NOT TO DAMAGE OR UNDERCUT FABRIC WHEN REMOVING SEDIMENT. IF A SUMP IS USED, SEDIMENT SHOULD BE REMOVED WHEN IT FILLS APPROXIMATELY 1/3 THE DEPTH OF THE HOLE. MAINTAIN THE POOL AREA, ALWAYS PROVIDING ADEQUATE SEDIMENT STORAGE VOLUME FOR THE NEXT STORM.

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

**FILTER FABRIC INLET PROTECTION (TYPE A)**

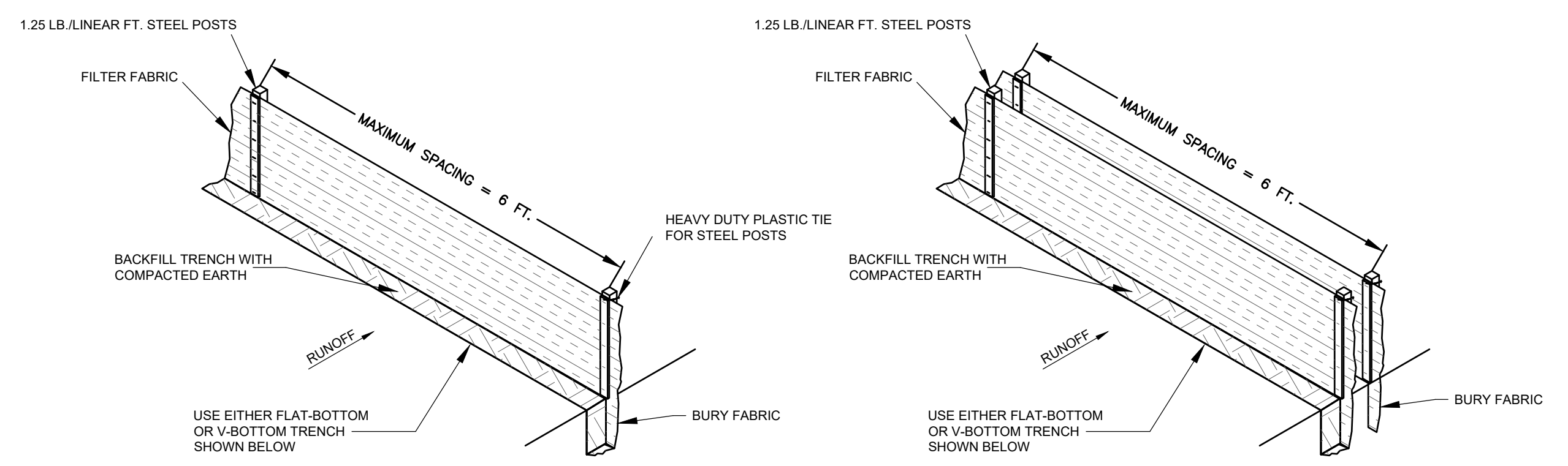


**LIST OF ACRONYMS FOR SEDIMENT AND EROSION CONTROL**

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
AMD	ACRYLAMIDE POLYMER
BFM	BONDED FIBER MATRIX
BMP(S)	BEST MANAGEMENT PRACTICE(S)
CFS	CUBIC FEET PER SECOND
CMP	CORRUGATED METAL PIPE
DHEC	DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
ECB	EROSION CONTROL BLANKET
EPA	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
EPSC	EROSION PREVENTION AND SEDIMENTATION CONTROL
FDA	UNITED STATES FOOD AND DRUG ADMINISTRATION
FGM	FLEXIBLE GROWTH MATRIX
HDPE	HIGH DENSITY POLYETHYLENE
MS4	MUNICIPAL SEPARATE STORM SEWER SYSTEM
MSDS	MATERIAL SAFETY DATA SHEETS
NPDES	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
PAM	POLYACRYLAMIDE OR POLYMER
RCP	REINFORCED CONCRETE PIPE
SCS	SOIL CONSERVATION SERVICE
SWPPP	STORMWATER POLLUTION PREVENTION PROGRAM
TRM	TURF REINFORCEMENT MAT
VFS	VEGETATED FILTER STRIP

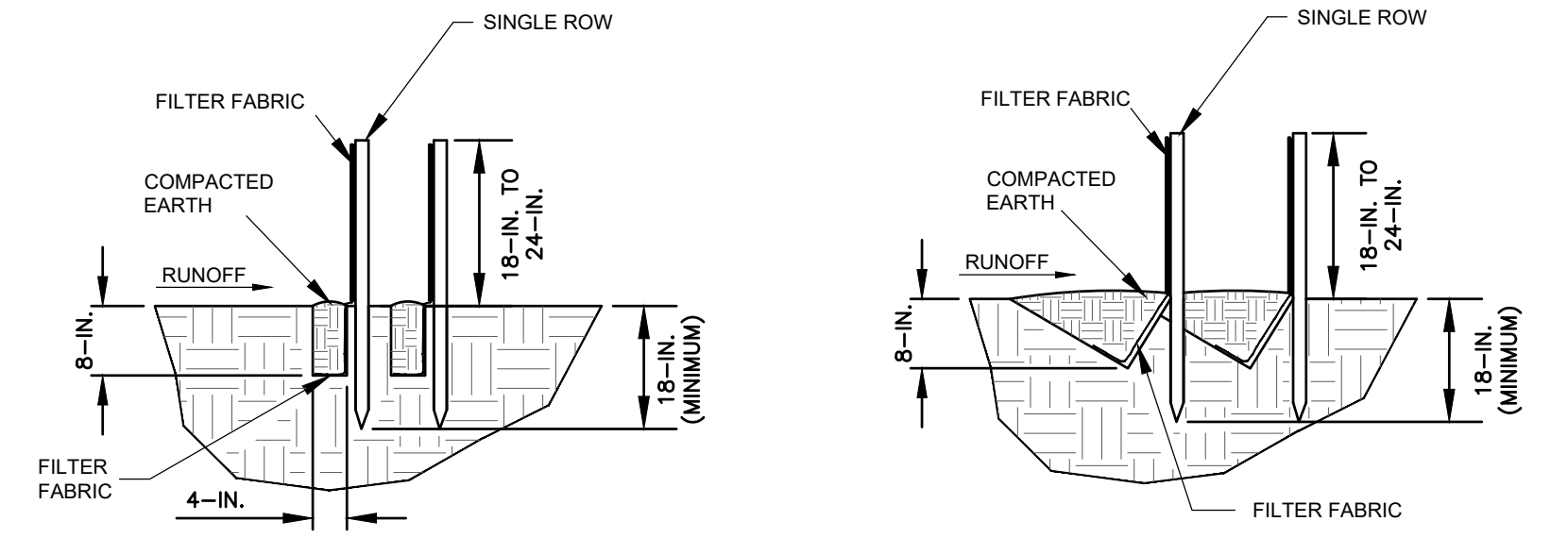
**EROSION CONTROL SYMBOL LEGEND**

DESCRIPTION	PLAN SYMBOL	PLAN LABEL
STABILIZED CONSTRUCTION ENTRANCE		SCE
SINGLE ROW SILT FENCE		SF
TYPE A - FABRIC INLET PROTECTION		FIP
DOUBLE ROW SILT FENCE		SF



**SINGLE-ROW SILT FENCE**

**DOUBLE-ROW SILT FENCE**



**FLAT-BOTTOM TRENCH DETAIL**

**V-SHAPED TRENCH DETAIL**

**NOTES:**  
WHEN AND WHERE TO USE IT:  
SILT FENCE IS APPLICABLE IN AREAS:  
WHERE THE MAXIMUM SHEET OR OVERLAND FLOW PATH LENGTH TO THE FENCE IS 100- FEET, WHERE THE MAXIMUM SLOPE STEEPNESS (NORMAL [PERPENDICULAR] TO FENCE LINE) IS 2H:1V, THAT DO NOT RECEIVE CONCENTRATED FLOWS GREATER THAN 0.5 CFS.

DO NOT PLACE SILT FENCE ACROSS CHANNELS OR USE IT AS A VELOCITY CONTROL BMP.

**MATERIALS:**  
STEEL POSTS  
USE 48-INCH LONG STEEL POSTS THAT MEET THE FOLLOWING MINIMUM PHYSICAL REQUIREMENTS:  
COMPOSED OF HIGH STRENGTH STEEL WITH MINIMUM YIELD STRENGTH OF 50,000 PSI.  
HAVE A STANDARD "T" SECTION WITH A NOMINAL FACE WIDTH OF 1.38-INCHES AND NOMINAL "T" LENGTH OF 1.48-INCHES.  
WEIGH 1.25 POUNDS PER FOOT (± 8%).  
HAVE A SOIL STABILIZATION PLATE WITH A MINIMUM CROSS SECTION AREA OF 17-SQUARE INCHES ATTACHED TO THE STEEL POSTS. PAINTED WITH A WATER BASED BAKED ENAMEL PAINT.

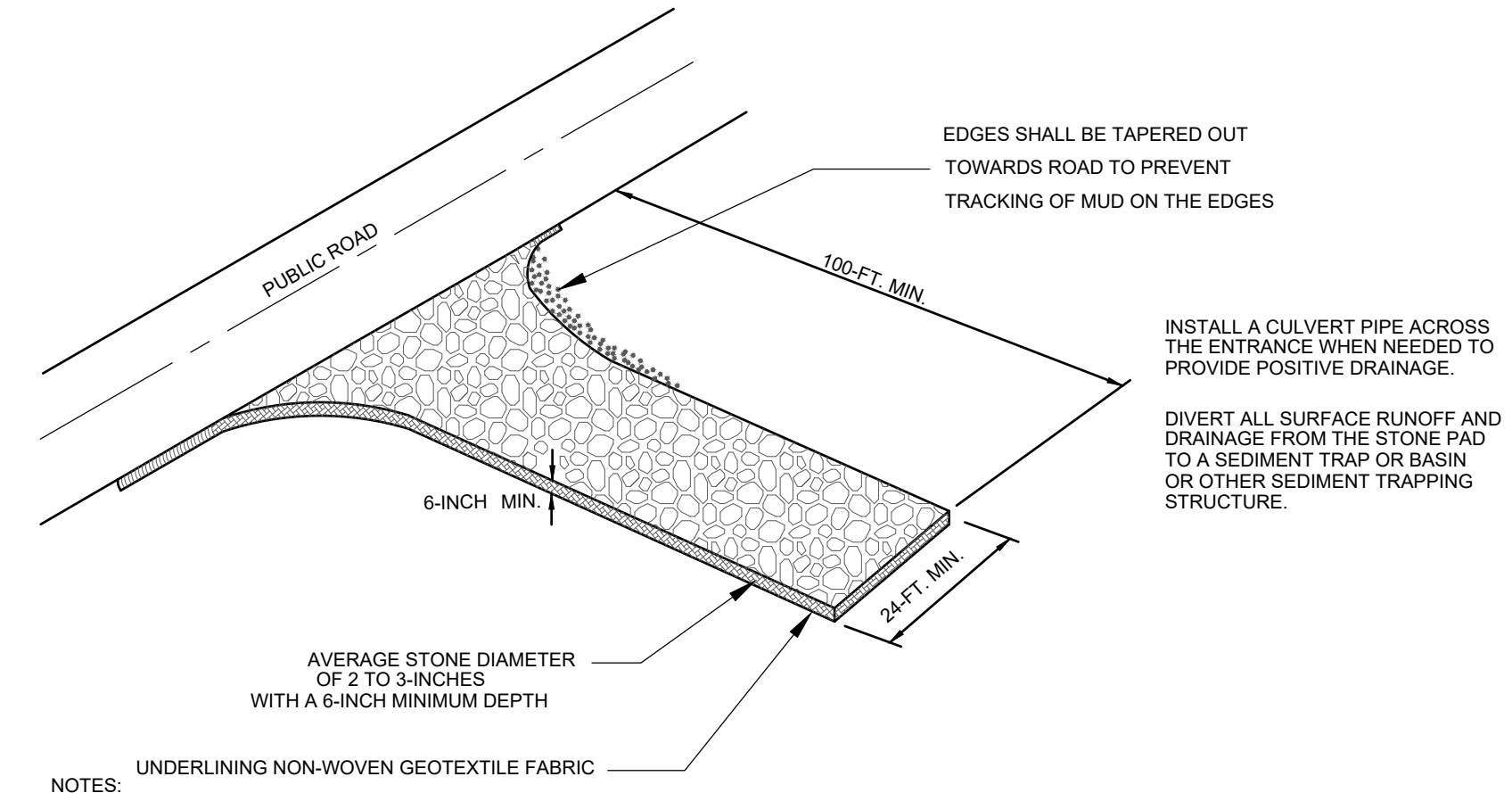
USE STEEL POSTS WITH A MINIMUM LENGTH OF 4- FEET, WEIGHING 1.25 POUNDS PER LINEAR FOOT (± 8%) WITH PROJECTIONS TO AID IN FASTENING THE FABRIC. EXCEPT WHEN HEAVY CLAY SOILS ARE PRESENT ON SITE, STEEL POSTS WILL HAVE A METAL SOIL STABILIZATION PLATE WELDED NEAR THE BOTTOM SUCH THAT WHEN THE POST IS DRIVEN TO THE PROPER DEPTH, THE PLATE WILL BE BELOW THE GROUND LEVEL FOR ADDED STABILITY.  
THE SOIL PLATES SHOULD HAVE THE FOLLOWING CHARACTERISTICS:  
BE COMPOSED OF MINIMUM 15 GAUGE STEEL.  
HAVE A MINIMUM CROSS SECTION AREA OF 17-SQUARE INCHES.

**GEOTEXTILE FILTER FABRIC:**  
FILTER FABRIC IS:  
COMPOSED OF FIBERS CONSISTING OF LONG CHAIN SYNTHETIC POLYMERS COMPOSED OF AT LEAST 85% BY WEIGHT OF POLYOLEFINS, POLYESTERS, OR POLYAMIDES.  
FORMED INTO A NETWORK SUCH THAT THE FILAMENTS OR YARNS RETAIN DIMENSIONAL STABILITY RELATIVE TO EACH OTHER.  
FREE OF ANY TREATMENT OR COATING WHICH MIGHT ADVERSELY ALTER ITS PHYSICAL PROPERTIES AFTER INSTALLATION.  
FREE OF DEFECTS OR FLAWS THAT SIGNIFICANTLY AFFECT ITS PHYSICAL AND/OR FILTERING PROPERTIES.  
CUT TO A MINIMUM WIDTH OF 36 INCHES.

USE ONLY FABRIC APPEARING ON SCDOT APPROVAL SHEET #34 MEETING THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

**INSTALLATION:**  
EXCAVATE A TRENCH APPROXIMATELY 6-INCHES WIDE AND 6-INCHES DEEP WHEN PLACING FABRIC BY HAND. PLACE 12-INCHES OF GEOTEXTILE FABRIC INTO THE 6-INCH DEEP TRENCH, EXTENDING THE REMAINING 6-INCHES TOWARDS THE UPSLOPE SIDE OF THE TRENCH. BACKFILL THE TRENCH WITH SOIL OR GRAVEL AND COMPACT. BURY 12-INCHES OF FABRIC INTO THE GROUND WHEN PNEUMATICALLY INSTALLING SILT FENCE WITH A SLICING METHOD. PURCHASE FABRIC IN CONTINUOUS ROLLS AND CUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS. WHEN JOINTS ARE NECESSARY, WRAPPED THE FABRIC TOGETHER AT A SUPPORT POST WITH BOTH ENDS FASTENED TO THE POST, WITH A 6-INCH MINIMUM OVERLAP. INSTALL POSTS TO A MINIMUM DEPTH OF 24-INCHES. INSTALL POSTS A MINIMUM OF 1- TO 2- INCHES ABOVE THE FABRIC, WITH NO MORE THAN 3- FEET OF THE POST ABOVE THE GROUND. SPACE POSTS TO A MAXIMUM 6- FEET CENTERS. ATTACH FABRIC TO WOOD POSTS USING STAPLES MADE OF HEAVY-DUTY WIRE AT LEAST 1-1/2-INCH LONG. SPACED A MAXIMUM OF 6-INCHES APART. STAPLE A 2-INCH WIDE LATHE OVER THE FILTER FABRIC TO SECURELY FASTEN IT TO THE UPSLOPE SIDE OF WOODEN POSTS. ATTACH FABRIC TO THE STEEL POSTS USING HEAVY-DUTY PLASTIC TIES THAT ARE EVENLY SPACED AND PLACED IN A MANNER TO PREVENT SAGGING OR TEARING OF THE FABRIC. IN ALL CASES, TIES SHOULD BE AFFIXED IN NO LESS THAN 4 PLACES. INSTALL THE FABRIC A MINIMUM OF 24-INCHES ABOVE THE GROUND. WHEN NECESSARY, THE HEIGHT OF THE FENCE ABOVE GROUND MAY BE GREATER THAN 24-INCHES. IN TIDAL AREAS, EXTRA SILT FENCE HEIGHT MAY BE REQUIRED. THE POST HEIGHT WILL BE TWICE THE EXPOSED POST HEIGHT. POST SPACING WILL REMAIN THE SAME AND EXTRA HEIGHT FABRIC WILL BE 4-, 5-, OR 6- FEET TALL. LOCATE SILT FENCE CHECKS EVERY 100 FEET MAXIMUM AND AT LOW POINTS. INSTALL THE FENCE PERPENDICULAR TO THE DIRECTION OF FLOW AND PLACE THE FENCE THE PROPER DISTANCE FROM THE TOE OF STEEP SLOPES TO PROVIDE SEDIMENT STORAGE AND ACCESS FOR MAINTENANCE AND CLEANOUT.

**INSPECTION AND MAINTENANCE:**  
INSPECT EVERY SEVEN CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 1/2-INCHES OR MORE OF PRECIPITATION. CHECK FOR SEDIMENT BUILDUP AND FENCE INTEGRITY. CHECK WHERE RUNOFF HAS ERODED A CHANNEL BENEATH THE FENCE, OR WHERE THE FENCE HAS SAGGED OR COLLAPSED BY FENCE OVERTOPPING. IF THE FENCE FABRIC TEARS, BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE SECTION OF FENCE IMMEDIATELY. REMOVE SEDIMENT ACCUMULATED ALONG THE FENCE WHEN IT REACHES 1/3 THE HEIGHT OF THE FENCE, ESPECIALLY IF HEAVY RAINS ARE EXPECTED. REMOVE TRAPPED SEDIMENT FROM THE SITE OR STABILIZE IT ON SITE. REMOVE SILT FENCE WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED OR AFTER TEMPORARY BEST MANAGEMENT PRACTICES (BMPs) ARE NO LONGER NEEDED. PERMANENTLY STABILIZE DISTURBED AREAS RESULTING FROM FENCE REMOVAL.



**NOTES:**  
WHEN AND WHERE TO USE IT:  
STABILIZED CONSTRUCTION ENTRANCES SHOULD BE USED AT ALL POINTS WHERE TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE AND MOVING DIRECTLY ONTO A PUBLIC ROAD.

**IMPORTANT CONSIDERATIONS:**  
IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFFSITE. WASHDOWN FACILITIES SHALL BE REQUIRED AS DIRECTED BY SCDEHC AS NEEDED. WASHDOWN AREAS IN GENERAL MUST BE ESTABLISHED WITH CRUSHED GRAVEL AND DRAIN INTO A SEDIMENT TRAP OR BASIN.

CONSTRUCTION ENTRANCES SHOULD BE USED IN CONJUNCTION WITH THE STABILIZATION OF CONSTRUCTION ROADS TO REDUCE THE AMOUNT OF MUD PICKED UP BY VEHICLES.

**INSTALLATION:**  
REMOVE ALL VEGETATION AND ANY OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA.  
DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM STONES TO A SEDIMENT TRAP OR BASIN.  
INSTALL A NON-WOVEN GEOTEXTILE FABRIC PRIOR TO PLACING ANY STONE.  
INSTALL A CULVERT PIPE ACROSS THE ENTRANCE WHEN NEEDED TO PROVIDE POSITIVE DRAINAGE.  
THE ENTRANCE SHALL CONSIST OF 1-INCH TO 3-INCH D50 STONE PLACED AT A MINIMUM DEPTH OF 6-INCHES.  
MINIMUM DIMENSIONS OF THE ENTRANCE SHALL BE 24- FEET WIDE BY 100- FEET LONG, AND MAY BE MODIFIED AS NECESSARY TO ACCOMMODATE SITE CONSTRAINTS.  
THE EDGES OF THE ENTRANCE SHALL BE TAPERED OUT TOWARDS THE ROAD TO PREVENT TRACKING OF MUD AT THE EDGE OF THE ENTRANCE.

**INSPECTION AND MAINTENANCE:**  
INSPECT CONSTRUCTION ENTRANCES EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 1/2-INCHES OR MORE OF PRECIPITATION, OR AFTER HEAVY USE. CHECK FOR MUD AND SEDIMENT BUILDUP AND PAD INTEGRITY. MAKE DAILY INSPECTIONS DURING PERIODS OF WET WEATHER. MAINTENANCE IS REQUIRED MORE FREQUENTLY IN WET WEATHER CONDITIONS. RESHAPE THE STONE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.

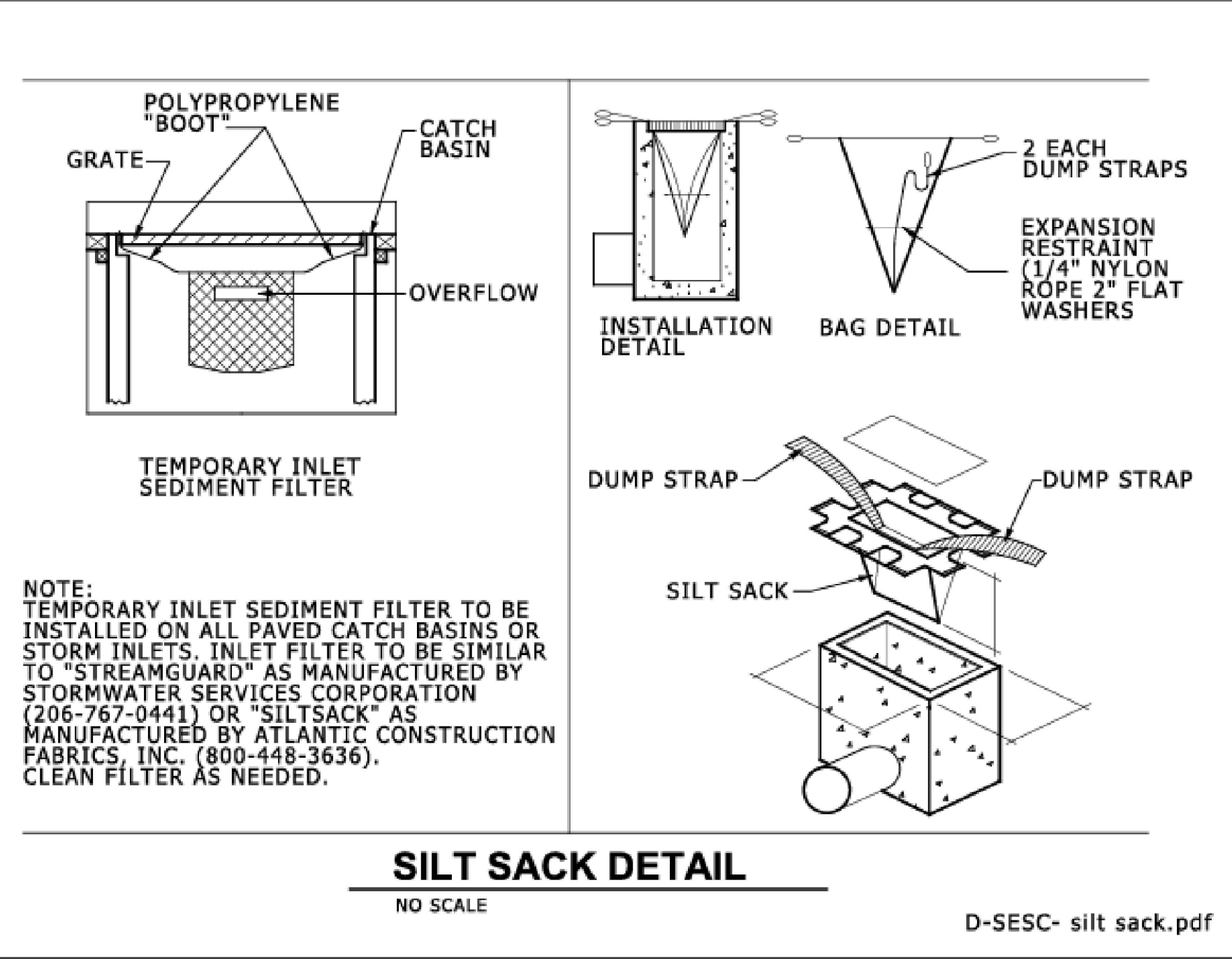
WASH OR REPLACE STONES AS NEEDED. THE STONE IN THE ENTRANCE SHOULD BE WASHED OR REPLACED WHENEVER THE ENTRANCE FAILS TO REDUCE MUD BEING CARRIED OFF-SITE BY VEHICLES.

FREQUENT WASHING WILL EXTEND THE USEFUL LIFE OF STONE.

IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. FLUSHING SHOULD ONLY BE USED WHEN THE WATER CAN BE DISCHARGED TO A SEDIMENT TRAP OR BASIN.

REPAIR ANY BROKEN PAVEMENT IMMEDIATELY.

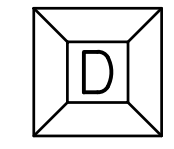
**STABILIZED CONSTRUCTION ENTRANCE**



**SILT SACK DETAIL**

NO SCALE

D-SESC- silt sack.pdf



**RIGID INLET FILTERS (TYPE D)**

NOT TO SCALE

**SILT FENCE**

NOT TO SCALE



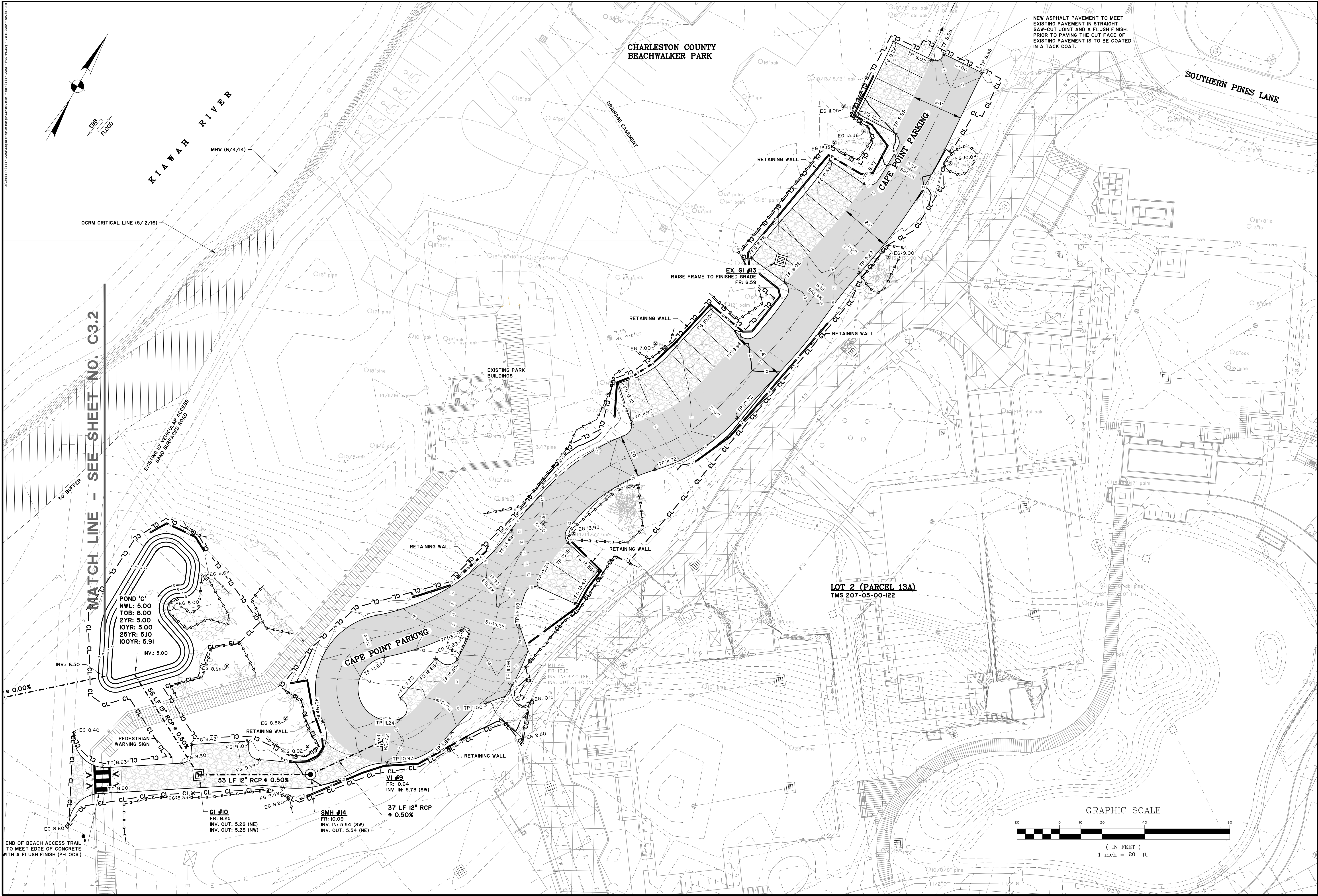
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**KRA, LP**  
CHARLESTON COUNTY, SOUTH CAROLINA  
CAPE POINT PARKING AND EMERGENCY BEACH ACCESS  
SWPPP - DETAILS

JOB NO:	J-25854.0001
DATE:	11/20/23
DRAWN:	LMD
DESIGNED:	LMD
REVIEWED:	DJJ
APPROVED:	DJJ
SCALE:	N/A

**EC4.1**



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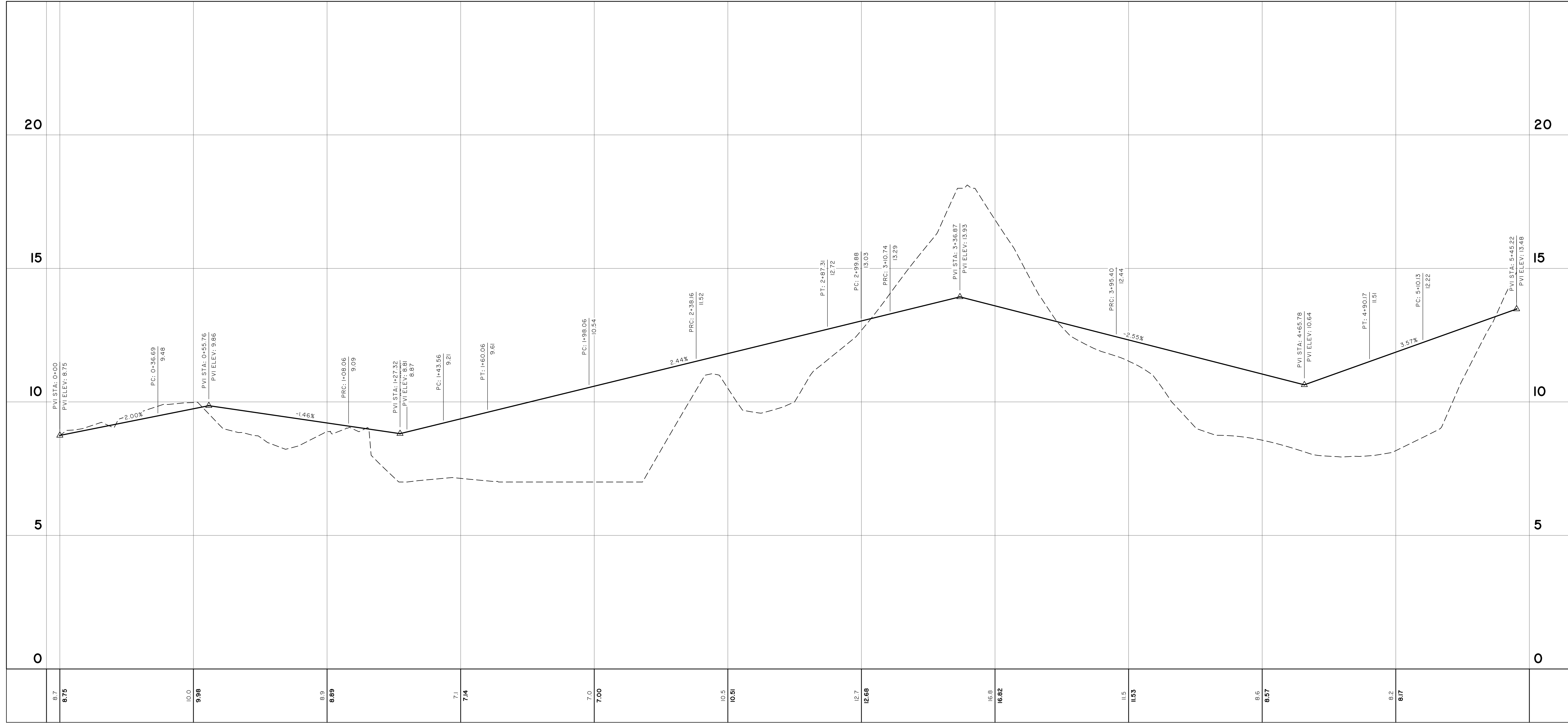
**KRA, LP**  
CHARLESTON COUNTY, SOUTH CAROLINA  
**CAPE POINT PARKING AND EMERGENCY BEACH ACCESS**  
**SITE DEVELOPMENT PLAN**

JOB NO: J-25854.0001  
DATE: 1/20/23  
DRAWN: LMD  
DESIGNED: LMD  
REVIEWED: DJJ  
APPROVED: DJJ  
SCALE: AS SHOWN

**C3.1**



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**25854.0001 - Cape Point Road**  
 STATIONS: -0+05 - 5+50  
 SCALE: HORZ.: 1" = 20'  
 VERT.: 1" = 2'

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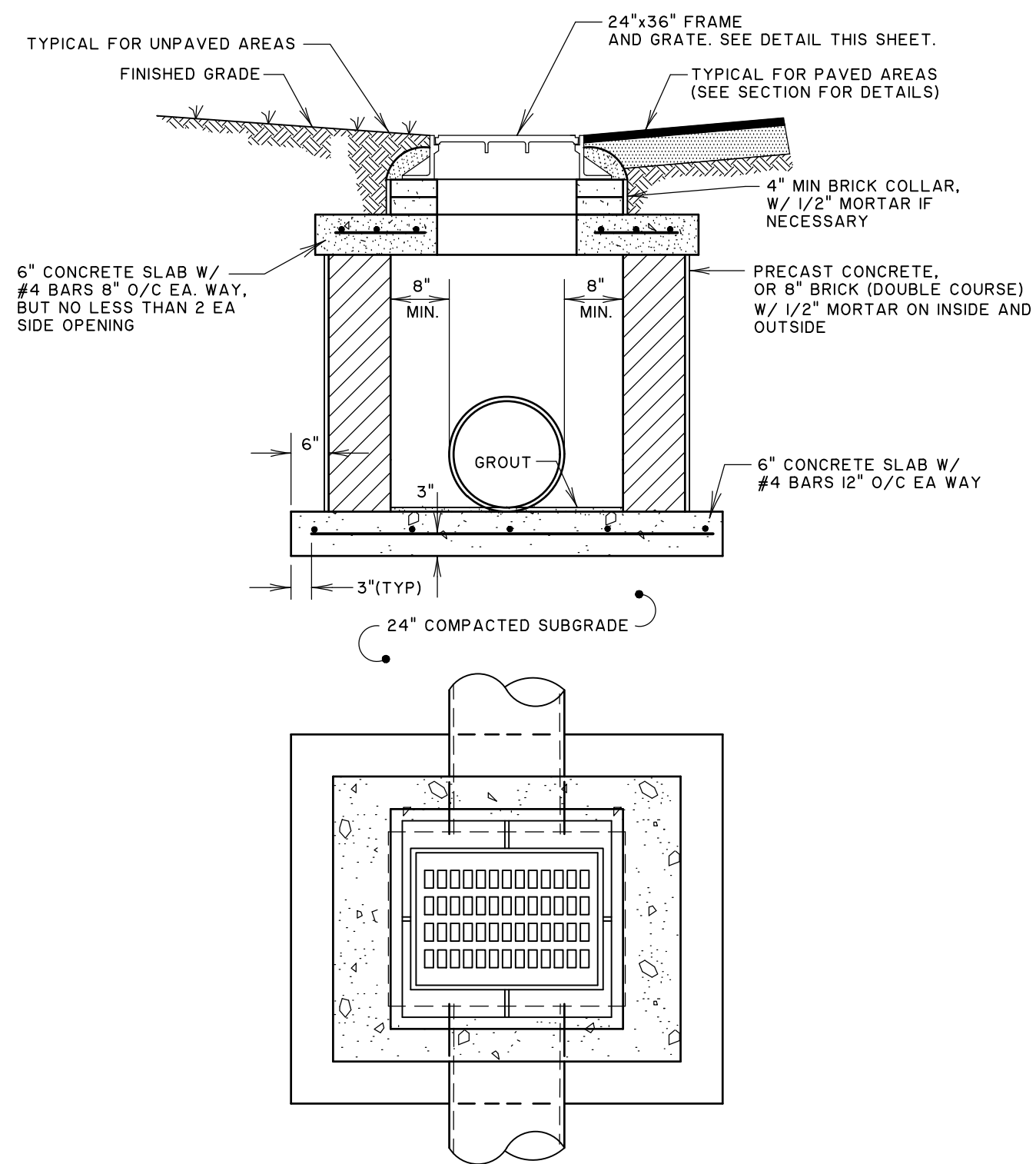
**KRA, LP**  
 CHARLESTON COUNTY, SOUTH CAROLINA  
**CAPE POINT PARKING AND EMERGENCY BEACH ACCESS**  
**ROAD PROFILE**

JOB NO:	J-25854.0001
DATE:	11/20/23
DRAWN:	LMD
DESIGNED:	LMD
REVIEWED:	DJJ
APPROVED:	DJJ
SCALE:	AS SHOWN

**C3.3**

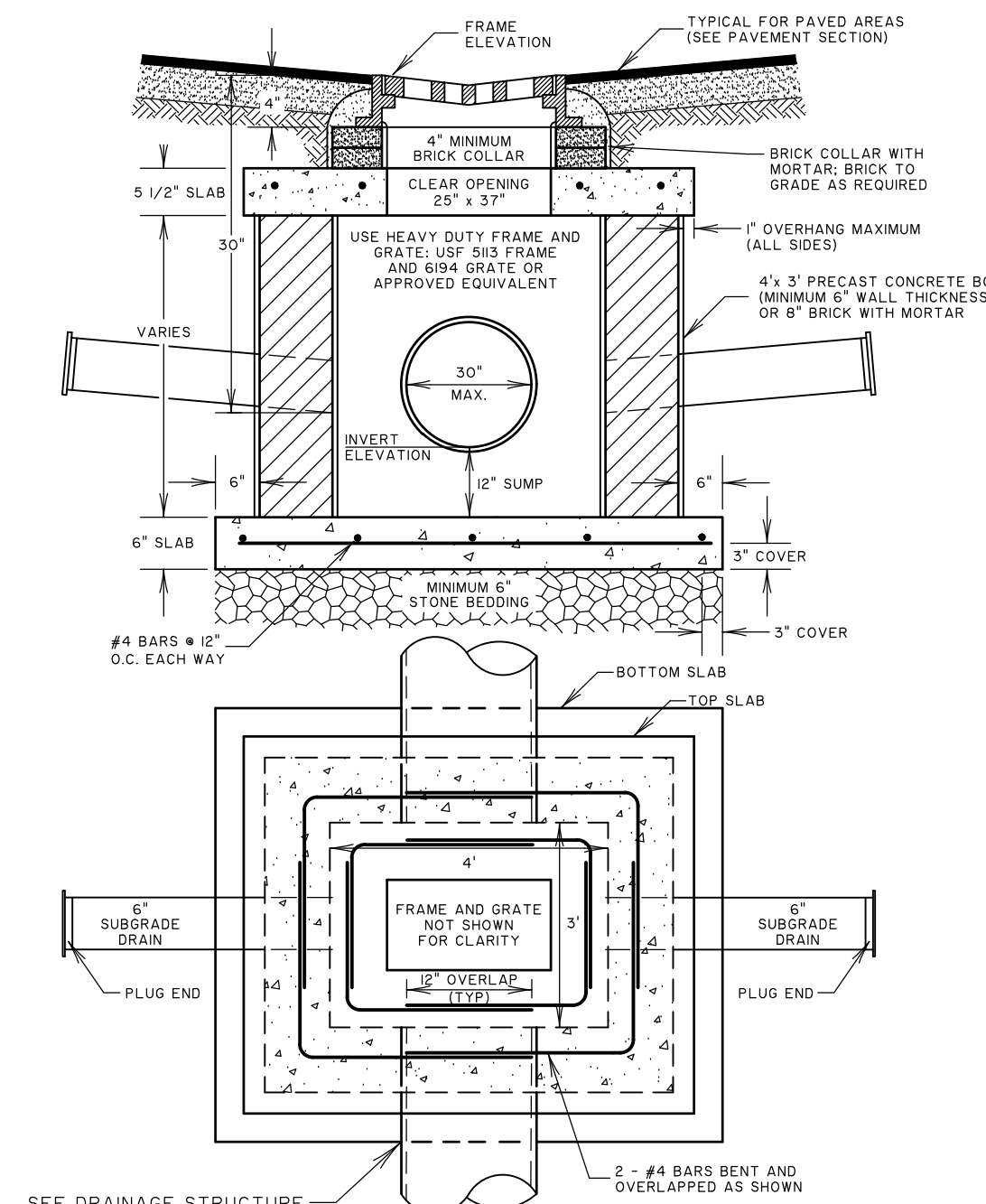






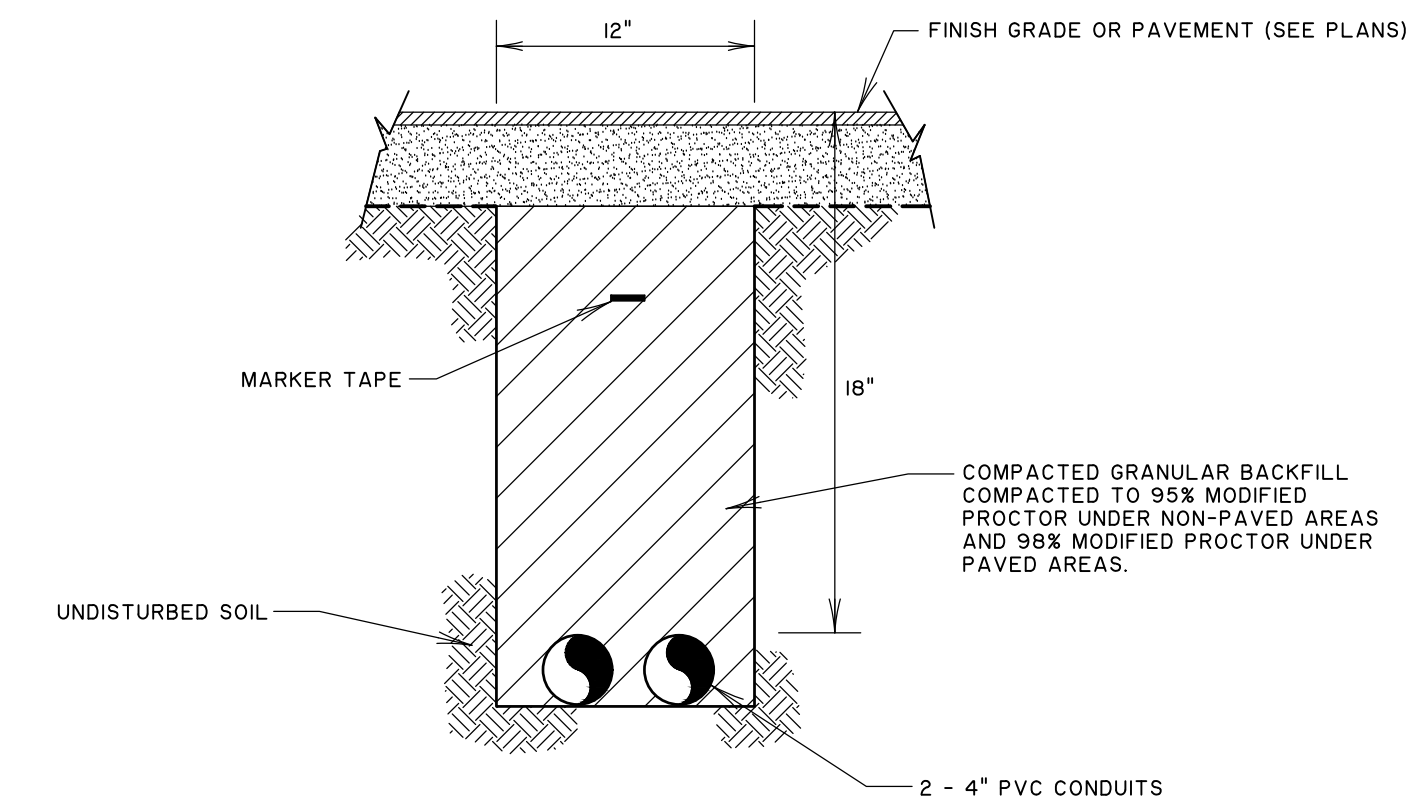
**STANDARD 24"x36" GRATE INLET**  
NOT TO SCALE

- NOTES:
1. CHAMFER ALL EXPOSED CONCRETE EDGES 3/4".
  2. WHERE BRICK IS USED, ALL EXPOSED SURFACES SHALL BE COATED WITH 1/2" 1:2 MORTAR INSIDE AND OUTSIDE.
  3. IF PRECAST BOX IS USED, TOP, RISER, AND BASE SHALL CONFORM TO THE LATEST REVISION OF ASTM C-478.
  4. ONLY TYPE S OR M MORTAR SHALL BE USED AND ALL BRICK SHALL MEET SCOOT SPECIFICATIONS.
  5. UNLESS OTHERWISE SHOWN THE CENTER OF THE FRAME FOR GRATE INLET STRUCTURES ARE TO BE LOCATED 6'-0" FROM THE EDGE OF PAVEMENT I.E. CENTER OF FRAME TO ALIGN WITH THE CENTER OF ROADSIDE SWALE.

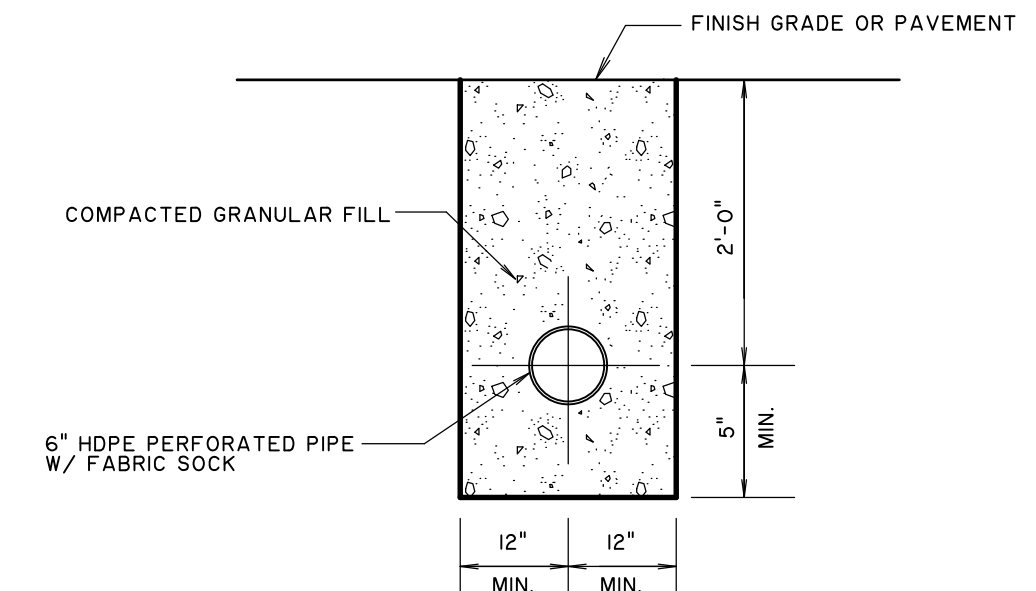


**VALLEY INLET DETAIL**  
NOT TO SCALE

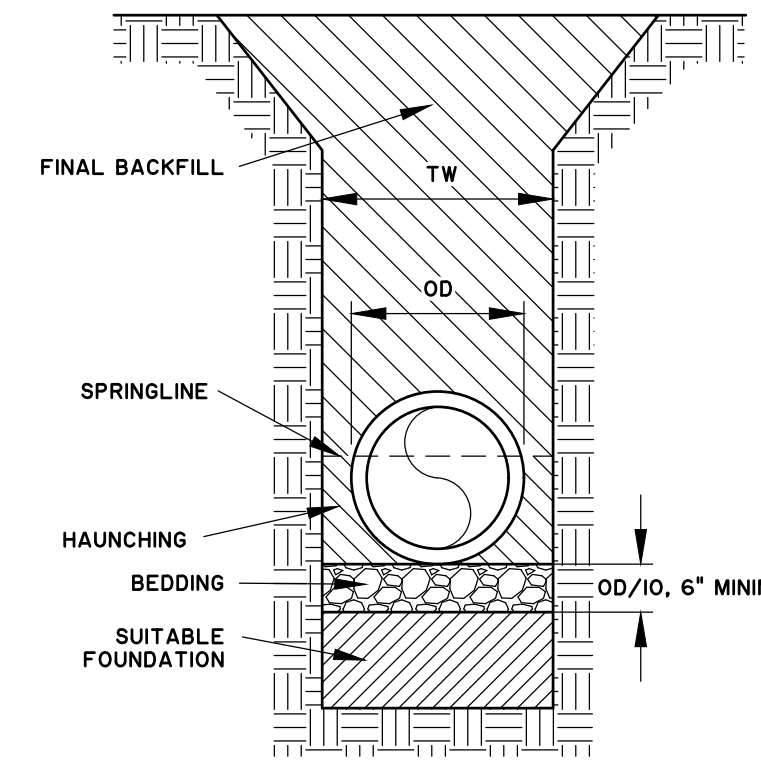
- SEE DRAINAGE STRUCTURE NOTES FOR PIPE CONNECTION REQUIREMENTS
- NOTES:
1. ORIENT GRATE SUCH THAT 36" DIMENSION IS PARALLEL TO THE DIRECTION OF TRAFFIC FLOW.
  2. FOR GRATE INLETS NOT IN PAVEMENT, INSTALL 10 LF OF SUBGRADE DRAIN STUBBED OUT AND CAPPED AS SHOWN.
  3. USE VALLEY INLET DETAIL FOR ALL GRATE INLETS IN PAVEMENT AREA.



**ROAD CROSSING CONDUIT DETAIL**  
NOT TO SCALE

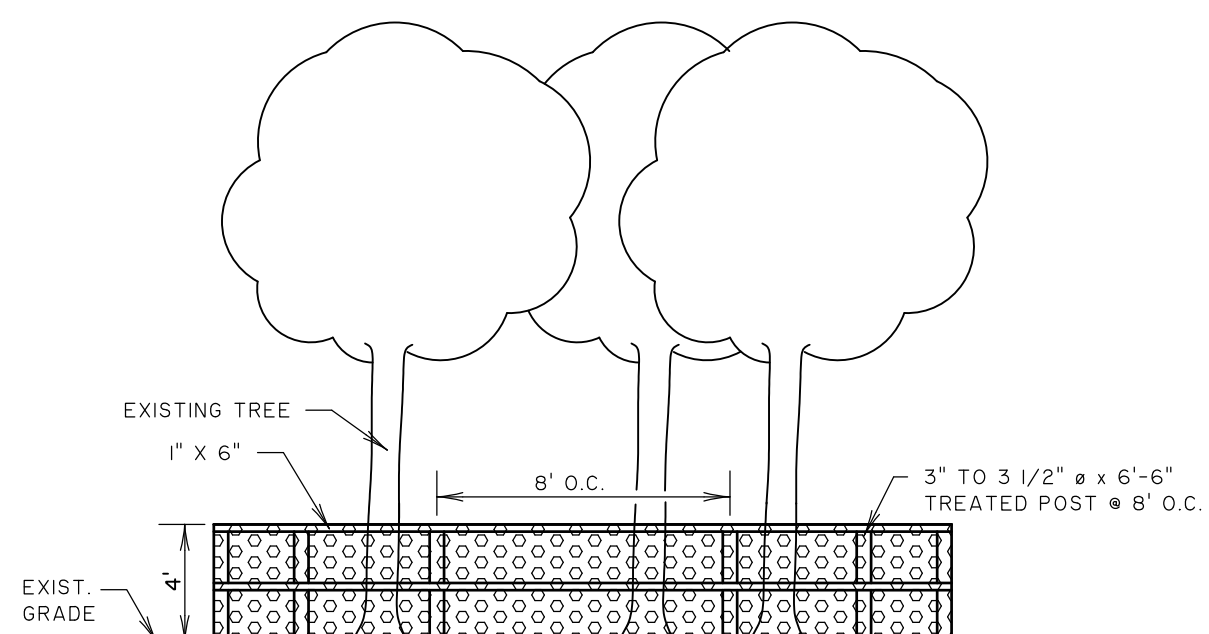


**SUBGRADE DRAIN DETAIL**  
NOT TO SCALE



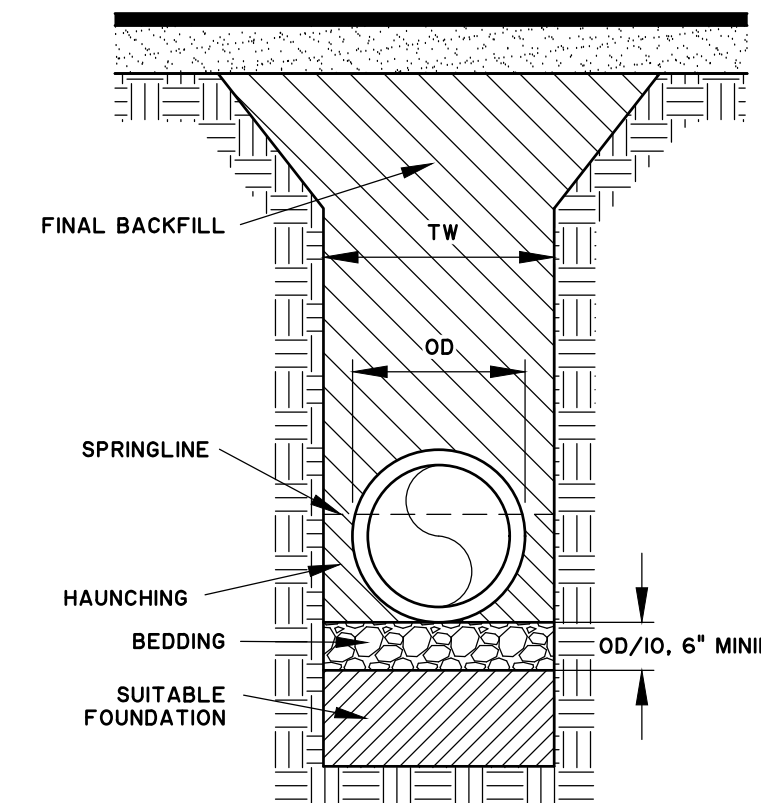
**RCP BEDDING UNPAVED AREAS**  
NOT TO SCALE

- NOTES:
1. TW SHALL BE LESS THAN OR EQUAL TO OD + 2 FEET.
  2. TRENCH SHALL BE DEWATERED BEFORE BEDDING MATERIAL IS PLACED.
  3. EACH JOINT SHALL BE WRAPPED WITH FILTER FABRIC.
  4. SEE ASTM D2321, TABLE I FOR MATERIAL CLASSIFICATIONS.
  5. SEE ASTM D698 FOR COMPACTION METHOD.
- MATERIAL REQUIREMENTS  
FOUNDATION - IF NATIVE MATERIAL IS UNSUITABLE, COORDINATE WITH ENGINEER TO DETERMINE AMOUNT OF MATERIAL TO REMOVE AND SUITABLE MATERIAL WITH WHICH TO REPLACE IT.  
BEDDING - CLASS II OR CLASS III.  
HAUNCHING - CLASS II OR CLASS III.  
FINAL BACKFILL - CLASS II, CLASS III, OR CLASS IVA.
- COMPACTION REQUIREMENTS  
BEDDING - LOOSELY PLACE BEDDING UNDER MIDDLE 1/3 OF PIPE. FOR REST OF BEDDING, COMPACT CLASS II AND CLASS III MATERIAL TO 95%  
HAUNCHING - COMPACT CLASS II AND CLASS III MATERIAL TO 95% IN 6" LIFTS  
FINAL BACKFILL - COMPACT CLASS II, CLASS III, OR CLASS IVA MATERIAL TO 90% IN 6" LIFTS.



**TREE PROTECTION DETAIL**  
NOT TO SCALE

- NOTES:
1. CONTRACTOR TO PROTECT AND SAVE TREE. INSTALL 4' HIGH WOODEN RAIL FENCE AROUND TREE. FENCE TO BE CONSTRUCTED OF TREATED LUMBER.
  2. ATTACH RAILS TO POST WITH GALVANIZED NAILS.



**RCP BEDDING PAVED AREAS**  
NOT TO SCALE

- NOTES:
1. TW SHALL BE LESS THAN OR EQUAL TO OD + 2 FEET.
  2. TRENCH SHALL BE DEWATERED BEFORE BEDDING MATERIAL IS PLACED.
  3. EACH JOINT SHALL BE WRAPPED WITH FILTER FABRIC.
  4. SEE ASTM D2321, TABLE I FOR MATERIAL CLASSIFICATIONS.
  5. SEE ASTM D698 FOR COMPACTION METHOD.
- MATERIAL REQUIREMENTS  
FOUNDATION - IF NATIVE MATERIAL IS UNSUITABLE, COORDINATE WITH ENGINEER TO DETERMINE AMOUNT OF MATERIAL TO REMOVE AND SUITABLE MATERIAL WITH WHICH TO REPLACE IT.  
BEDDING - CLASS II OR CLASS III.  
HAUNCHING - CLASS II OR CLASS III.  
FINAL BACKFILL - CLASS II OR CLASS III.
- COMPACTION REQUIREMENTS  
BEDDING - LOOSELY PLACE BEDDING UNDER MIDDLE 1/3 OF PIPE. FOR REST OF BEDDING, COMPACT CLASS II AND CLASS III MATERIAL TO 95%  
HAUNCHING - COMPACT CLASS II AND CLASS III MATERIAL TO 95% IN 6" LIFTS  
FINAL BACKFILL - COMPACT CLASS II OR CLASS III MATERIAL TO 95% IN 6" LIFTS

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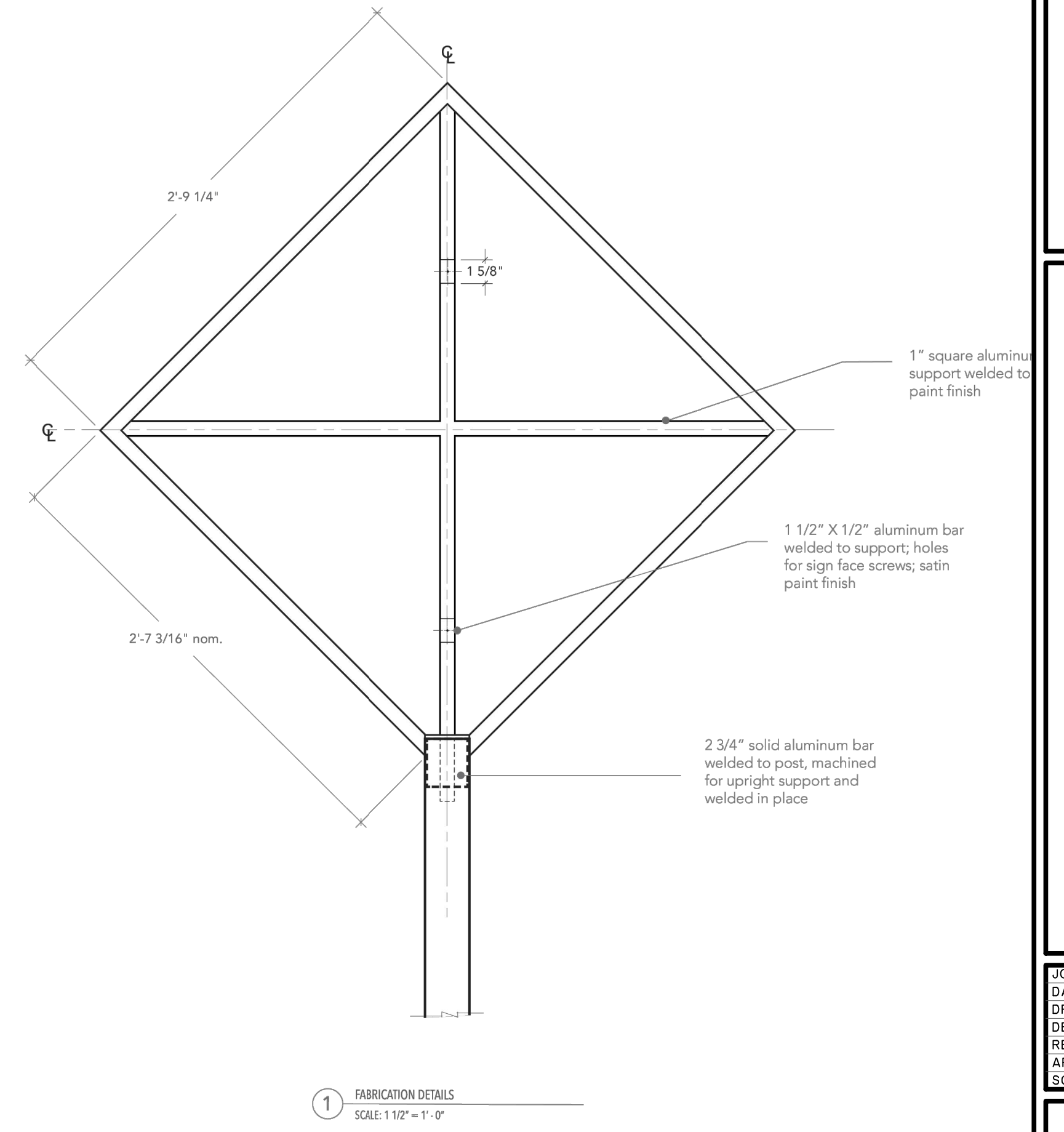
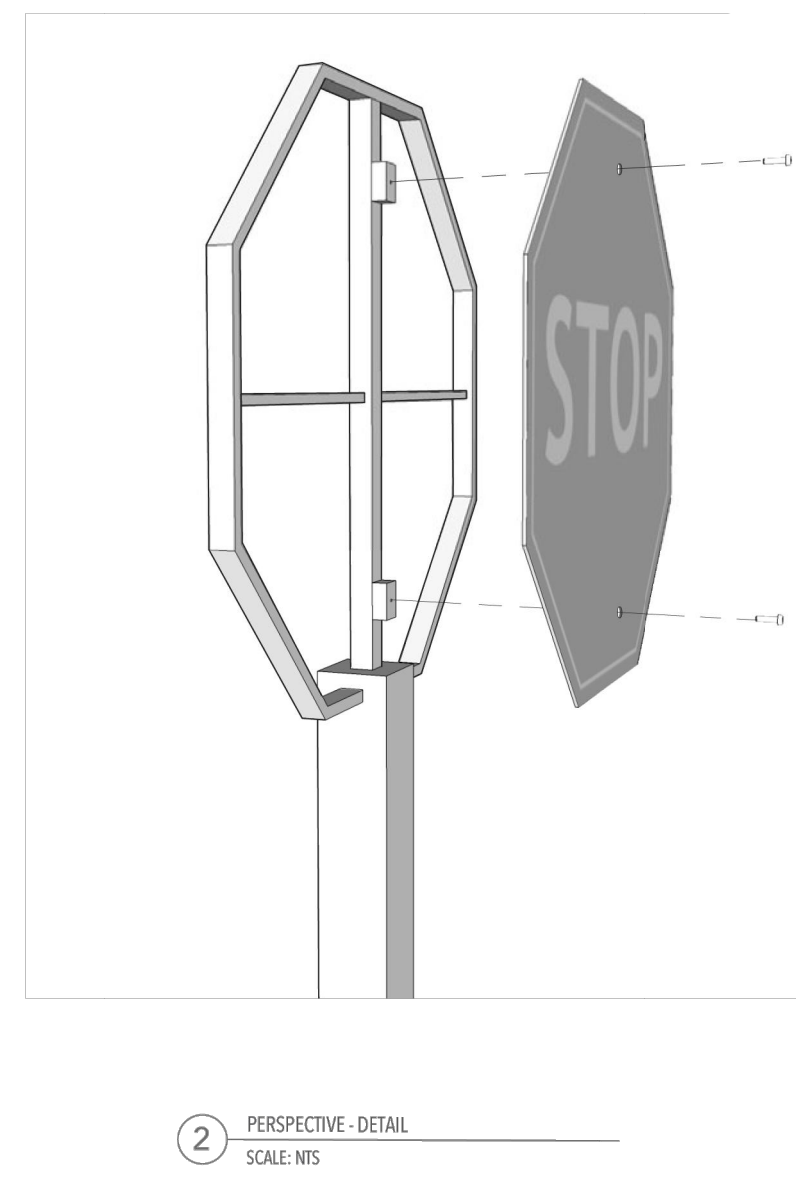
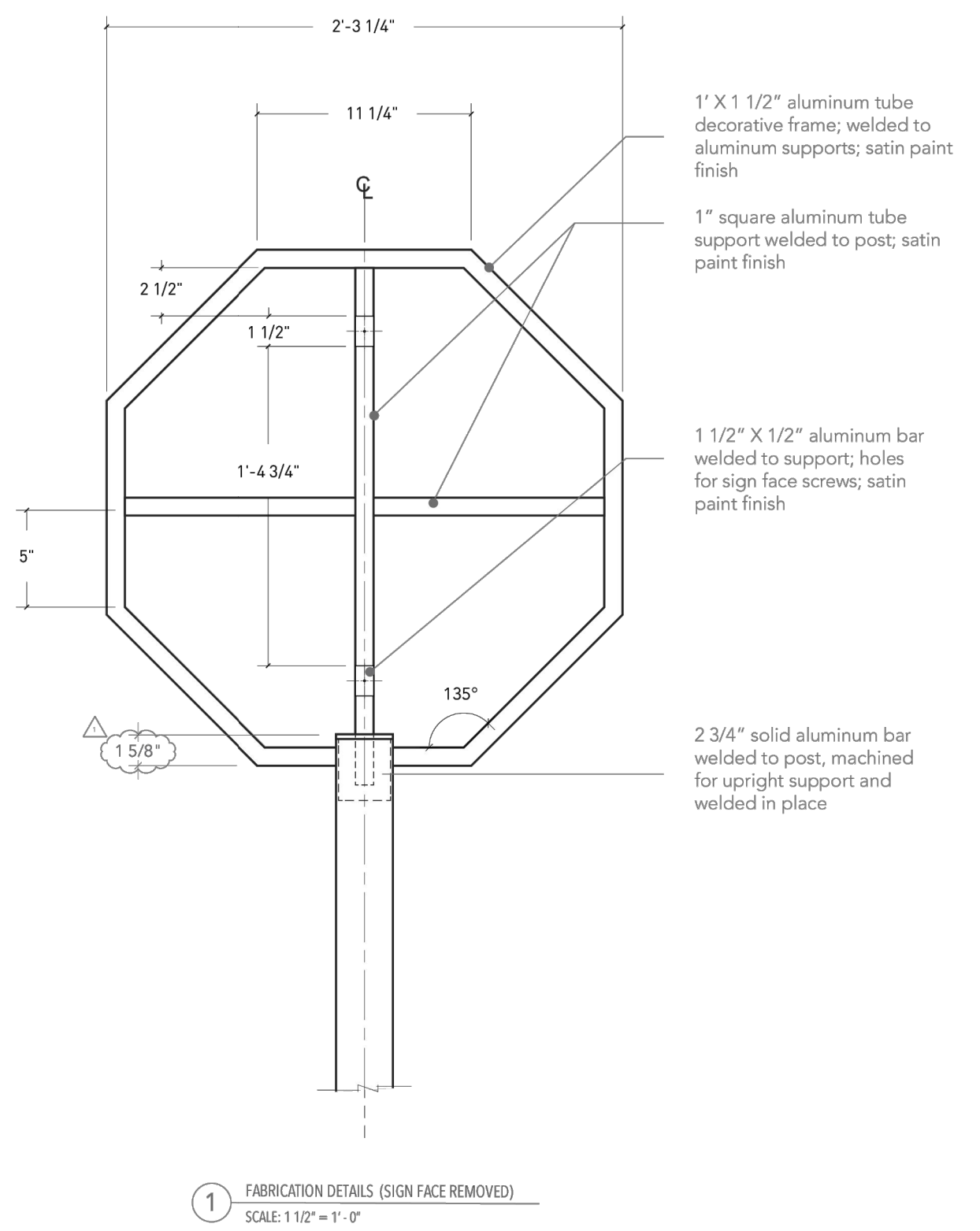
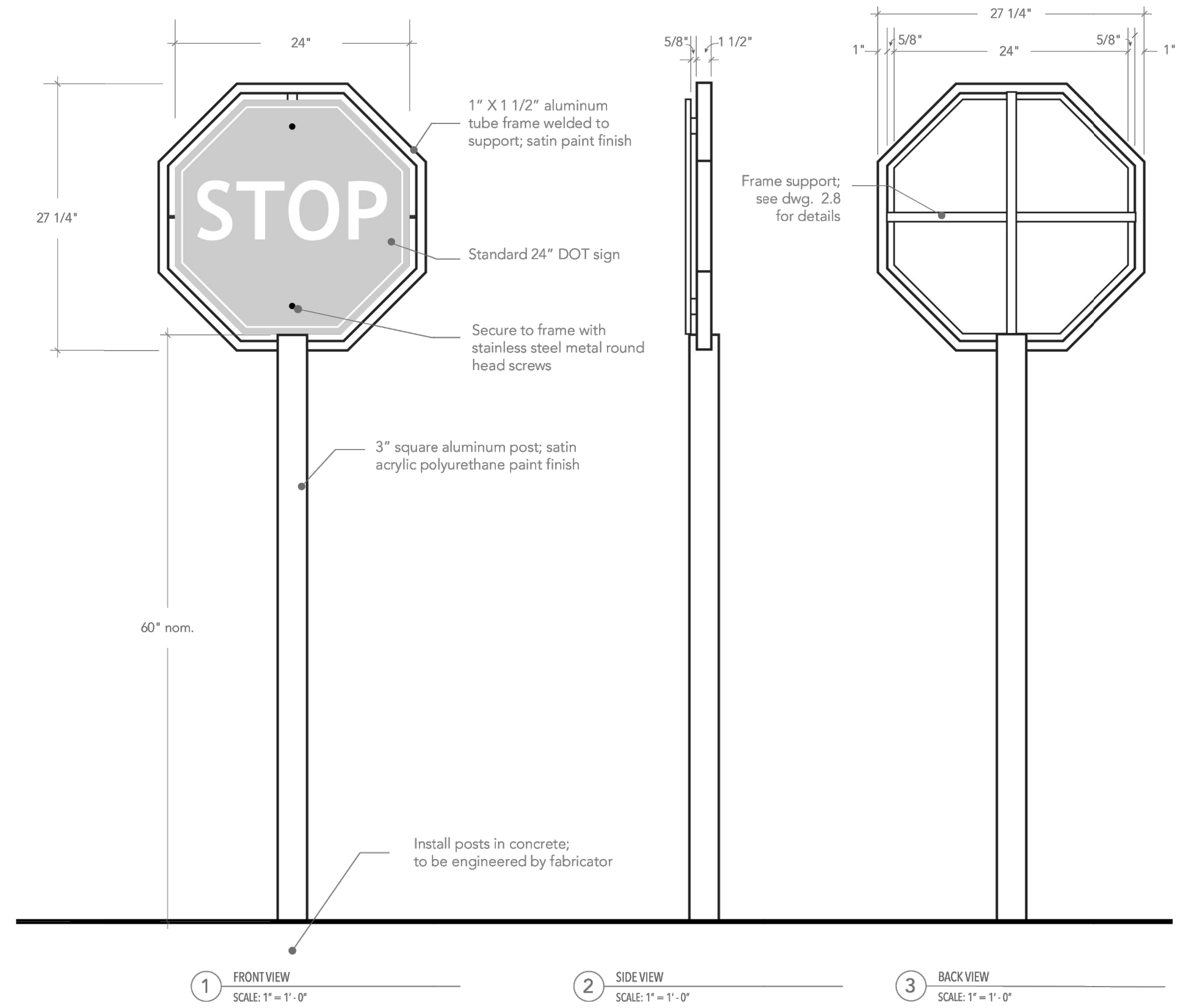
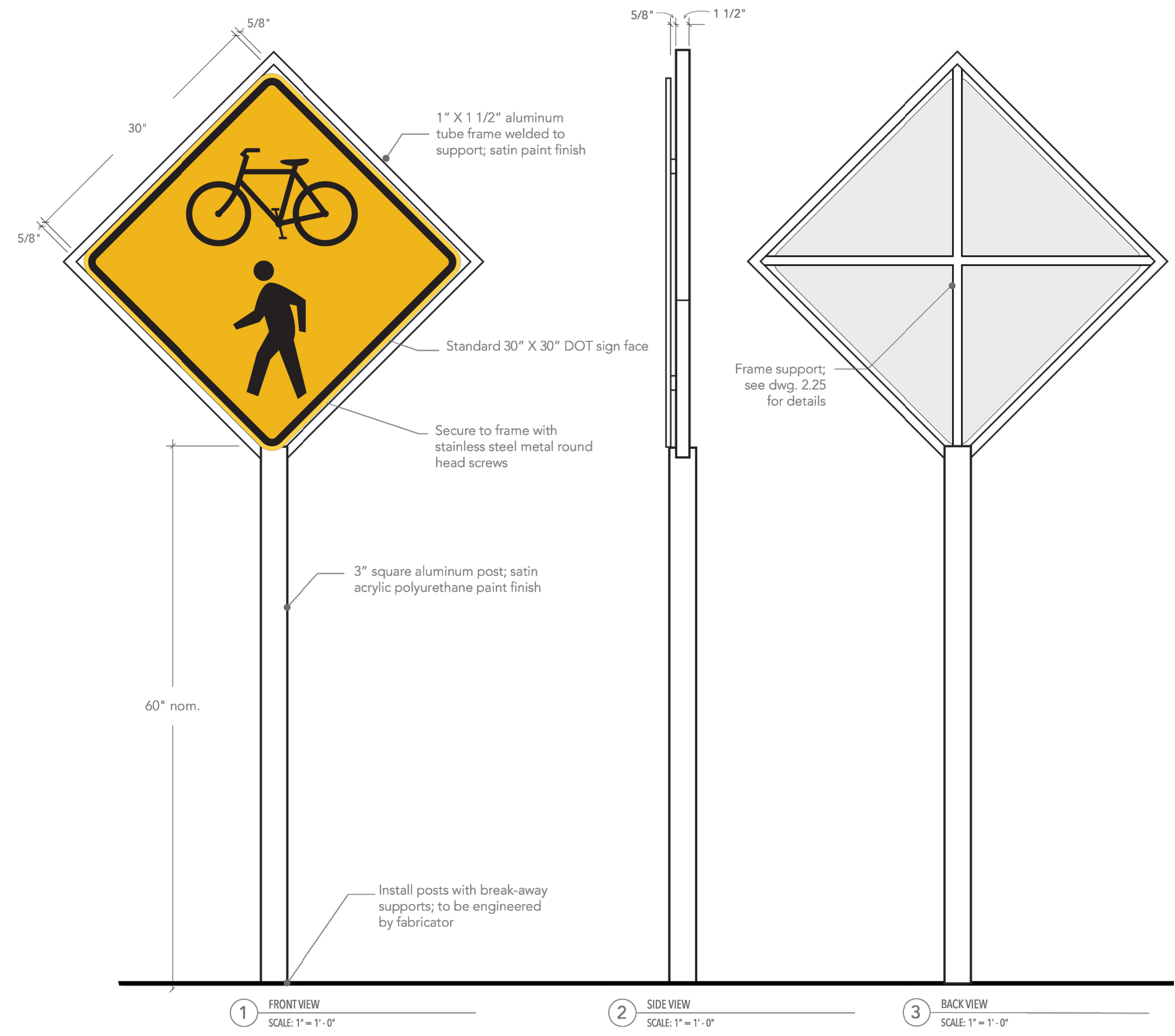
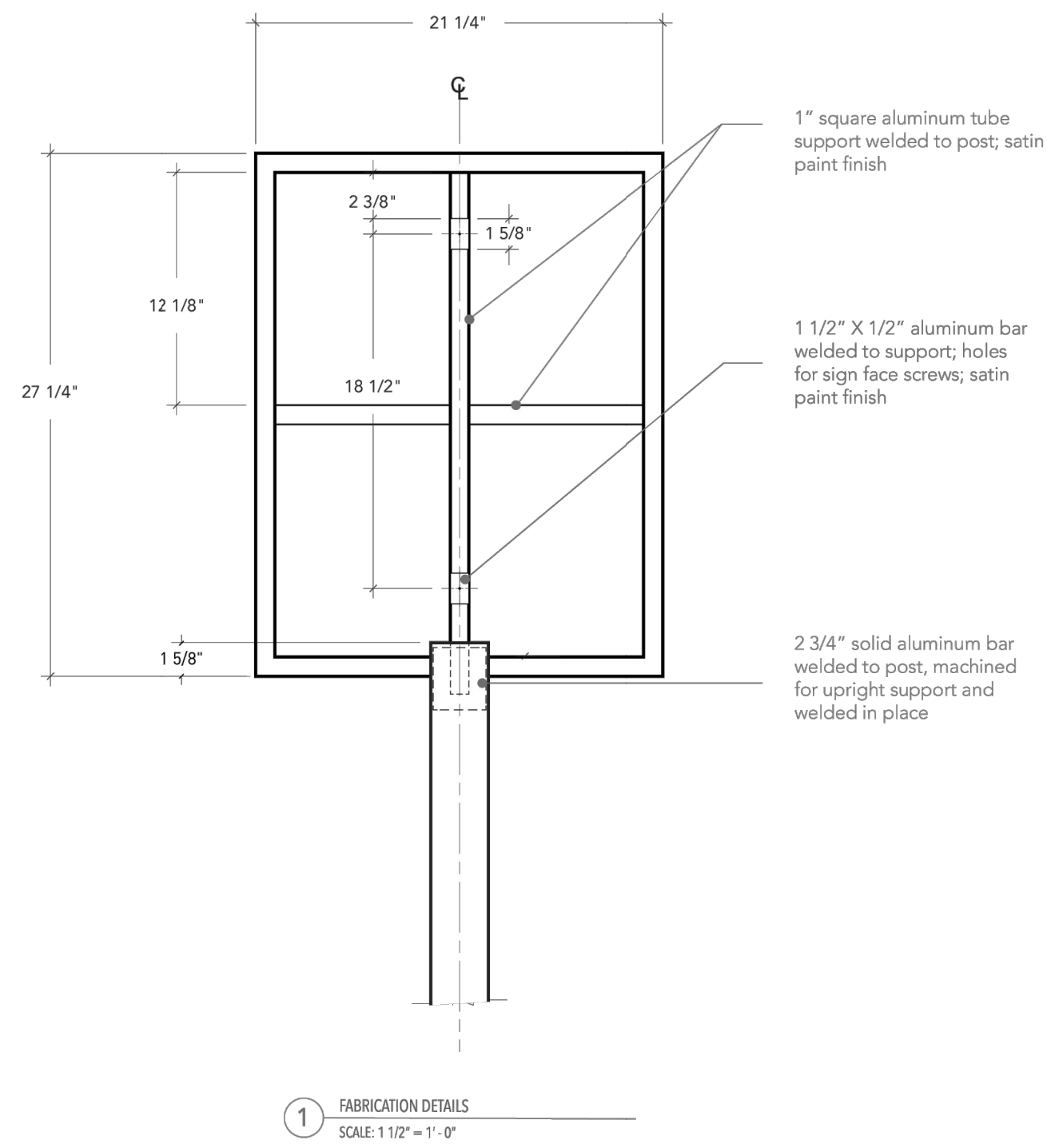
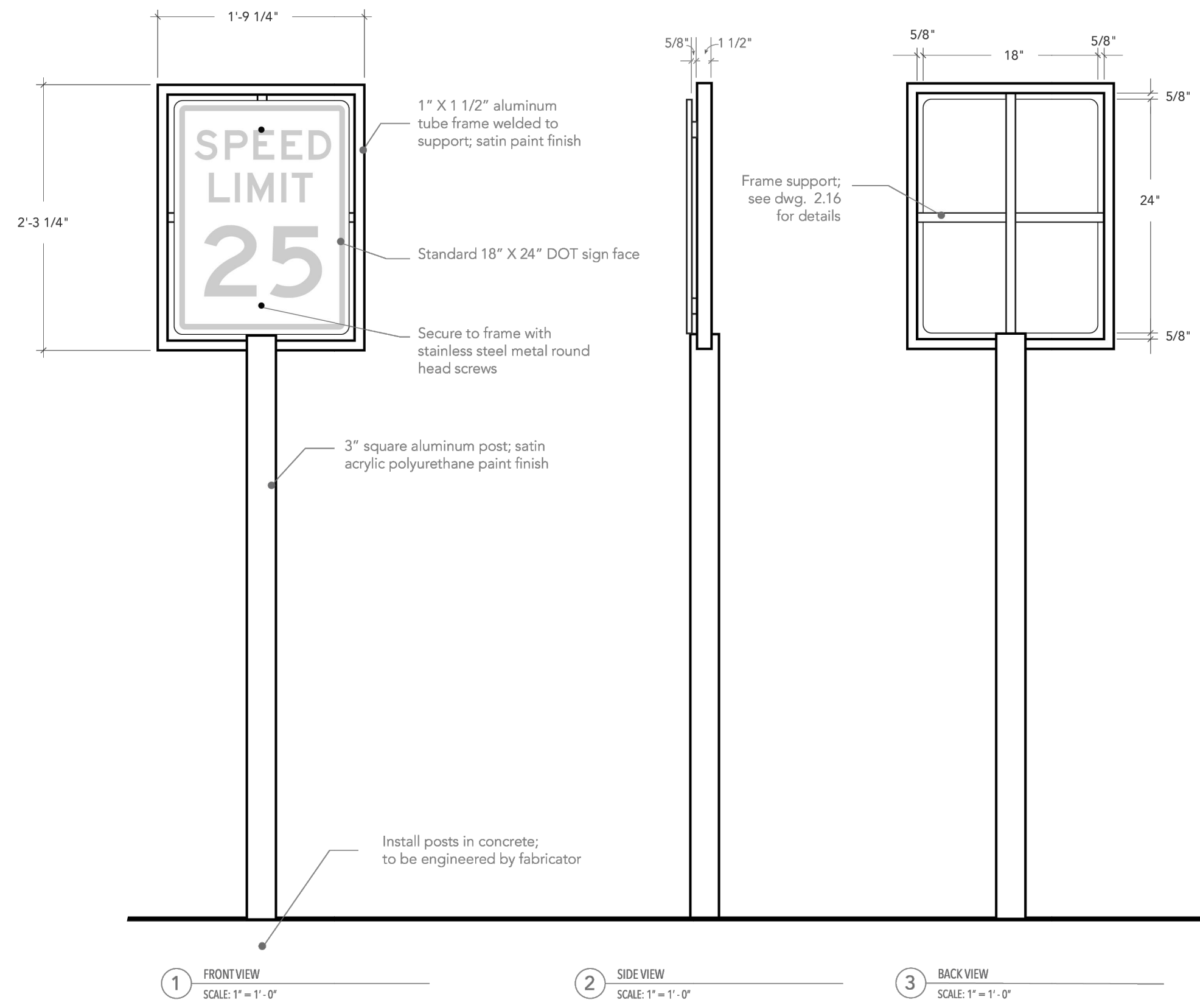
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SCALE: 1" = 1'



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**C5.3**