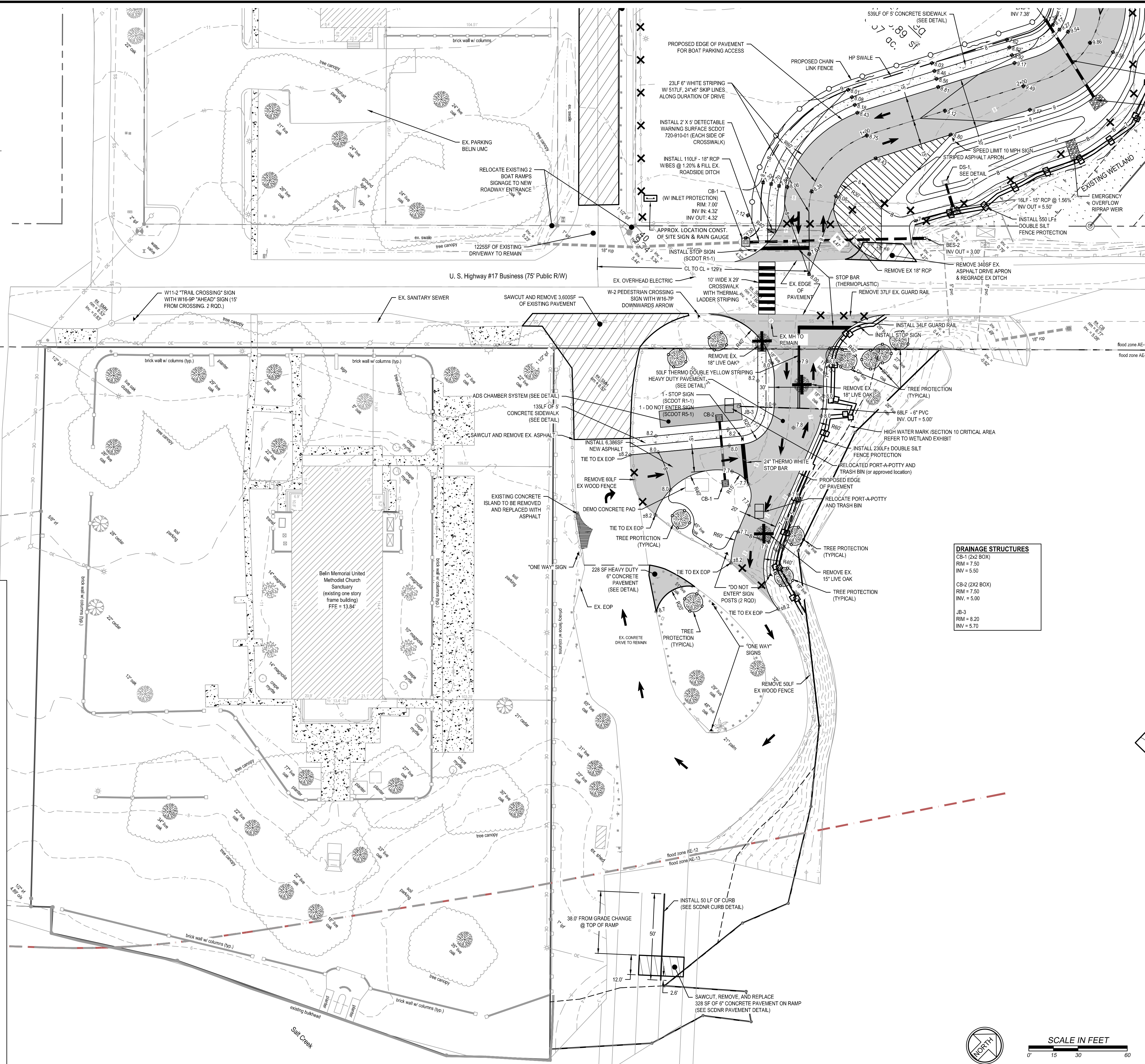


**CONSTRUCTION SEQUENCE:**

- PHASE 1**
1. RECEIVE NPDES COVERAGE FROM DHEC AND CONDUCT PRE-CONSTRUCTION MEETING.
  2. INSTALL CONSTRUCTION ENTRANCE (S).
  3. CLEAR AND GRUB AS REQUIRED TO INSTALL ALL PERIMETER CONTROLS (SILT FENCE). INSTALL TREE PROTECTION AND COMPLETE ALL NECESSARY REMOVALS, ie; EXISTING CHAIN LINK FENCE, EXISTING TREES AS SHOWN, EXISTING SIDEWALK, ETC.
  4. CLEAR AND GRUB REMAINDER OF SITE AND LEGALLY DISPOSE OF DEBRIS OFF-SITE.
  5. EXCAVATE WATER QUALITY BMP BASIN, INSTALL OUTLET CONTROL AND OVERFLOW WEIR. STABILIZE BASIN WITH PERMANENT VEGETATION. CONTRACTOR MUST MAINTAIN BASIN UNTIL CONSTRUCTION IS COMPLETED AND PROJECT HAS BEEN CLOSED-OUT.

- PHASE 2**
1. INSTALL STORM DRAINAGE INCLUDING SEDIMENT PROJECTION FOR EACH STRUCTURE. INSTALL CULVERTS WITH REQUIRED OUTLET PROTECTION.
  2. EXCAVATE NEW DRIVES TO SUBGRADE ELEVATION.
  3. INSTALL BASE MATERIAL AND COMPACT IN PLACE.

- PHASE 3**
1. COMPLETE SURFACE IMPROVEMENTS AS APPLICABLE, INCLUDING BUT NOT LIMITED TO SIDEWALKS, PAVEMENT, FENCE, AND ETC.
  2. REMOVE EXISTING DRIVES AND SIDEWALKS AS REQUIRED.
  3. ESTABLISH PERMANENT SOIL STABILIZATION ON ALL REMAINING DISTURBED AREAS.
  4. WHEN APPLICABLE, CLEAN, REGRADE, AND RE-ESTABLISH SOIL STABILIZATION FOR BMP BASINS.
  5. REMOVE ALL TEMPORARY SEDIMENT CONTROL DEVICES AFTER THE ENTIRE AREA FLOWING TO EACH MEASURE IS STABILIZED.
  6. CONDUCT FINAL INSPECTIONS WITH LOCAL AGENCIES AND COMPLETE PROJECT CLOSE-OUT.
  7. SUBMIT NOTE OF TERMINATION (NOT) TO DHEC.



**User Inputs**

Chamber Model:	SC-310
Outlet Control Structure:	Yes
Project Name:	Tim Kirby
Engineer:	Tim Kirby
Project Location:	Imperial
Measurement Type:	Imperial
Required Storage Volume:	450 cubic ft.
Stone Porosity:	40%
Stone Foundation Depth:	6 in.
Stone Above Chambers:	6 in.
Average Cover Over Chambers:	18 in.
Design Constraint Dimensions:	(12 ft. x 55 ft.)

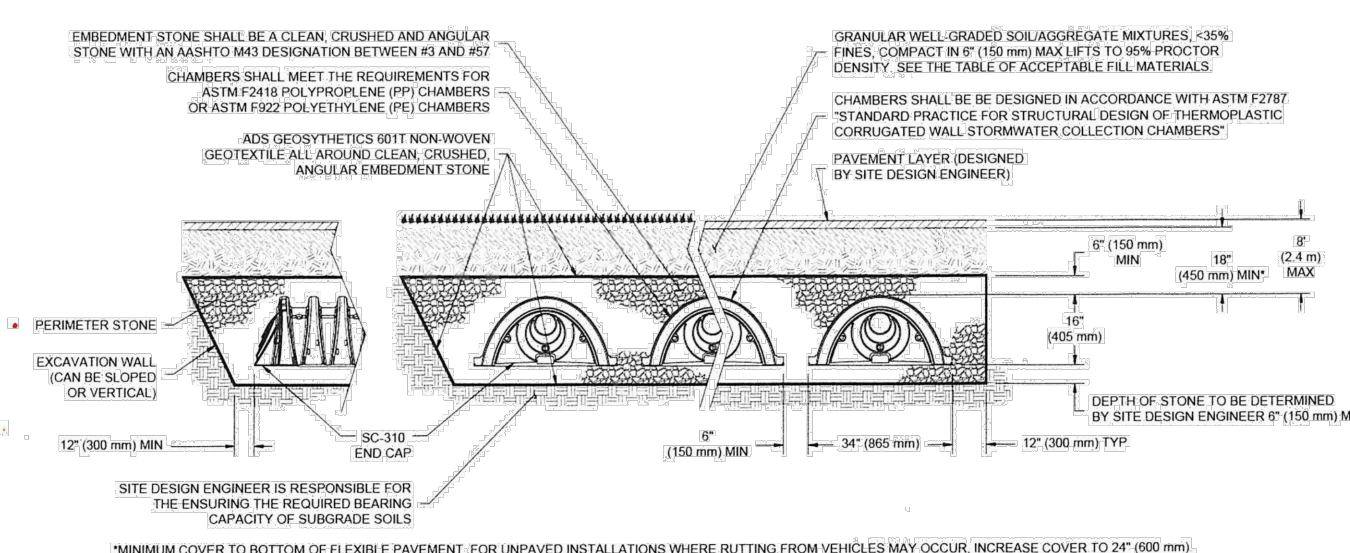
**Results**

**System Volume and Bed Size**

Installed Storage Volume:	480.97 cubic ft.
Storage Volume Per Chamber:	14.70 cubic ft.
Number of Chambers Required:	12
Number of End Caps Required:	4
Chamber Rows:	2
Maximum Length:	49.22 ft.
Maximum Width:	8.17 ft.
Approx. Bed Size Required:	401.93 square ft.

**System Components**

Amount of Stone Required:	29 cubic yards
Volume of Excavation (Not Including Fill):	35 cubic yards
Total Non-woven Geotextile Required:	143 square yards
Woven Geotextile Required (excluding Isolator Row):	1 square yards
Woven Geotextile Required (Isolator Row):	24 square yards
Total Woven Geotextile Required:	24 square yards
Impervious Liner Required:	0 square yards

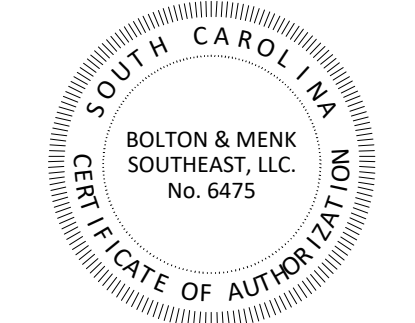


**DRAINAGE STRUCTURES**

CB-1 (2X2 BOX)	RIM = 7.50	INV = 5.50
CB-2 (2X2 BOX)	RIM = 7.50	INV = 5.00
JB-3	RIM = 8.20	INV = 5.70



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1208 Professional Dr., Myrtle Beach, SC 29577  
Phone: (843) 692-3200 Fax: (843) 692-3210



NO.	DATE	REVISION DESCRIPTION	BY
3	04/05/2024	COUNTY COMMENT UPDATE	JTW
2	3/11/2024	COUNTY COMMENT UPDATE	JTW
1	8/24/2022	COUNTY COMMENT UPDATE	MRM
NO.			

**PRELIMINARY SITE DESIGN**

BELIN UMC  
Horry County, South Carolina

PREPARED FOR: BELIN UMC

SCALE: 1"=30'

DATE: 4/20/20

DESIGNED BY: SJC

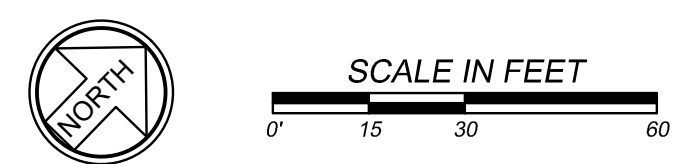
DRAWN BY: BLS

APPROV. BY: JMW

PROJECT NO.: 18101E

**1**

FILE NO.: 18101E - OVERALL



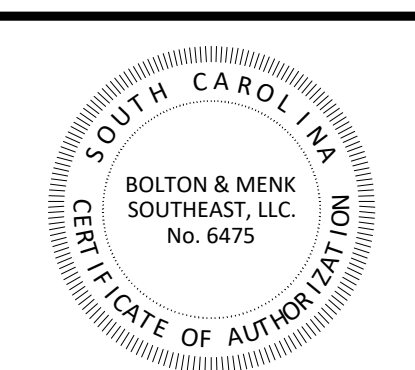
PDP SCALE: 1"=1' PDP FILE: REV:DDC279

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NO.	DATE	REVISION DESCRIPTION	BY
3	04/05/2024	COUNTY COMMENT UPDATE	JTW
2	3/11/2024	COUNTY COMMENT UPDATE	JTW
1		REVISION DESCRIPTION	

**PRELIMINARY SITE DESIGN**

BELIM UMC  
HORRY COUNTY, SOUTH CAROLINA

PREPARED FOR: BELIM UMC

SCALE: 1"=30'

DATE: 4/20/20

DESIGNED BY: SJC

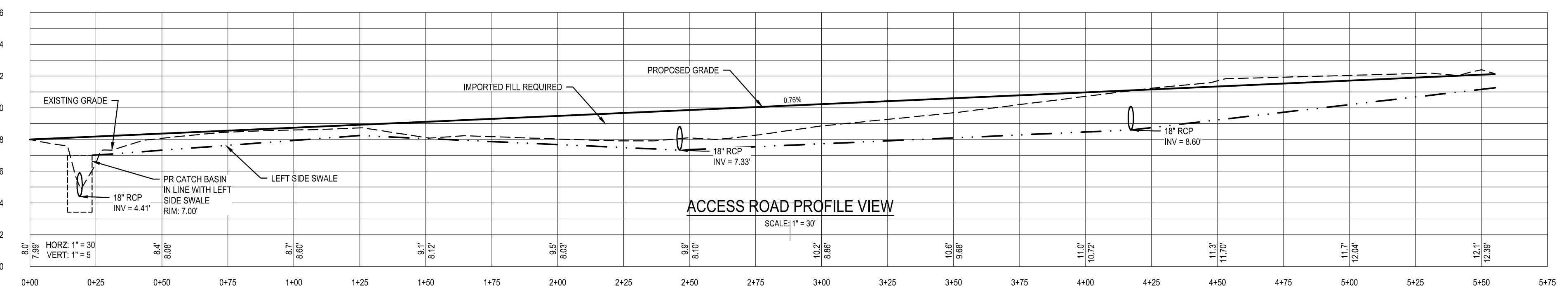
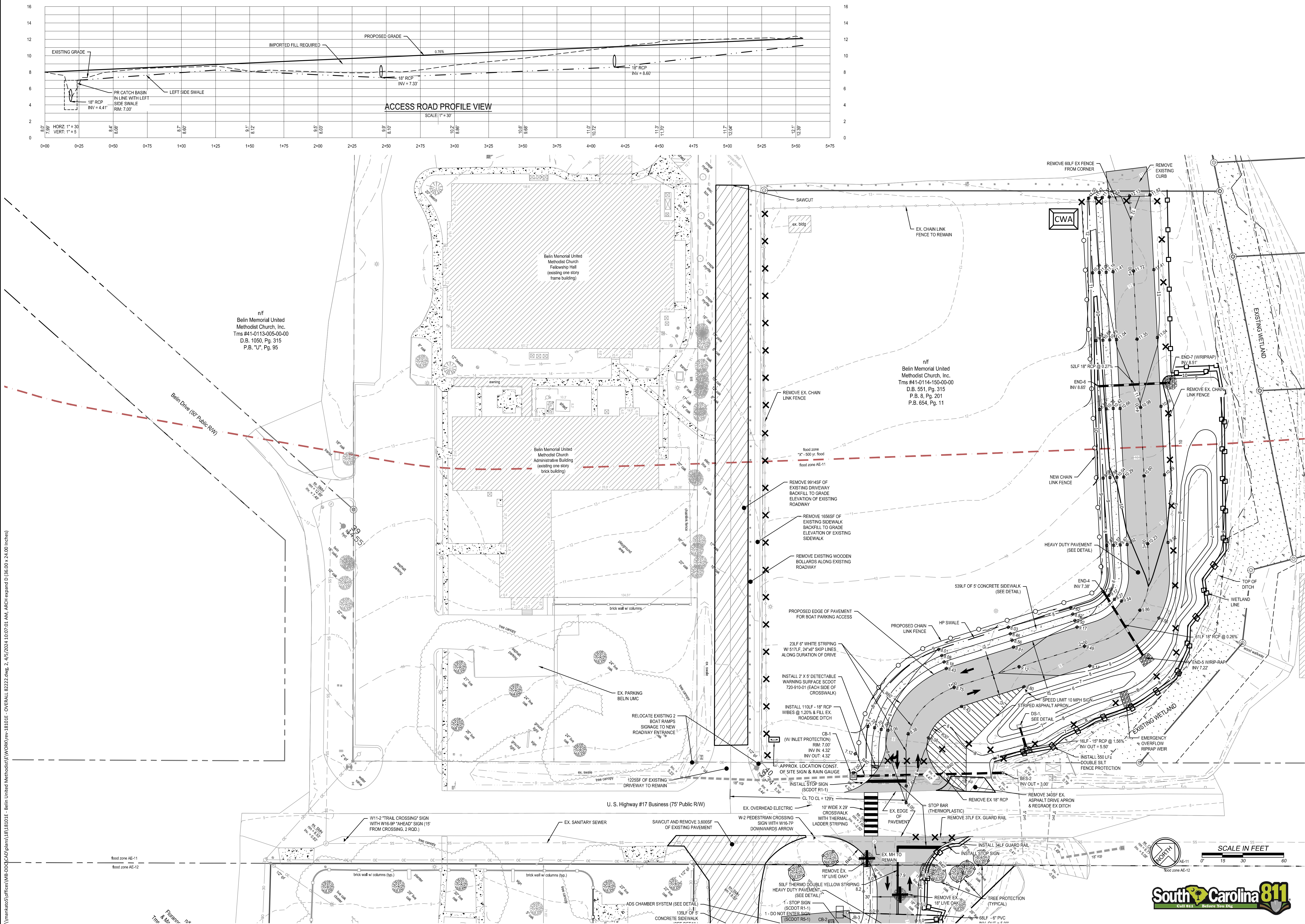
DRAWN BY: BLS

APPROV. BY: JMW

PROJECT NO.: 18101E

**2**

FILE NO.: 18101E - OVERALL



n/f  
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Methodist Church, Inc.  
Tms #41-0113-005-00-00  
D.B. 1050, Pg. 315  
P.B. "U", Pg. 95

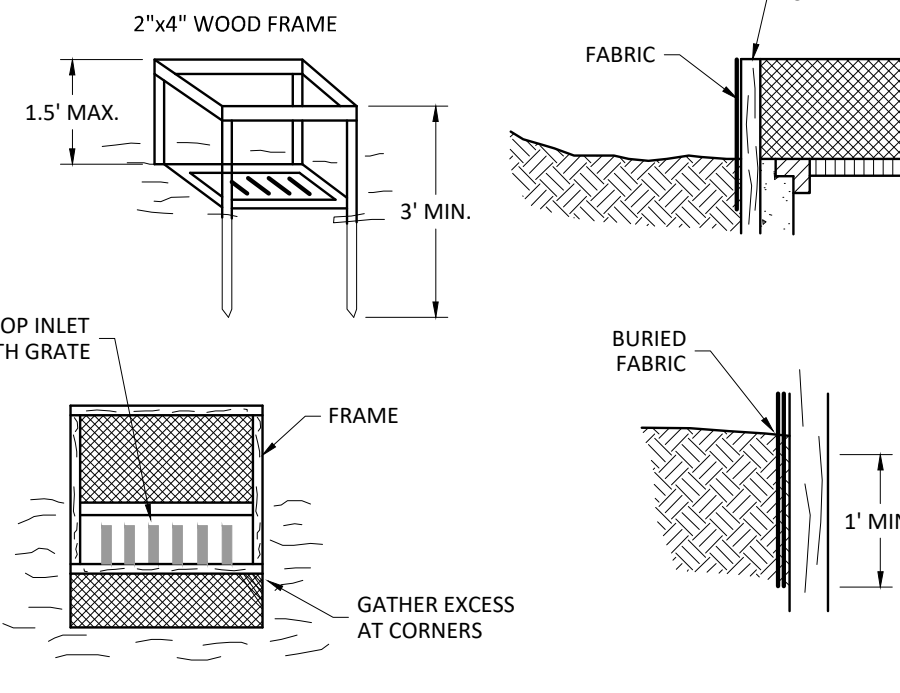
n/f  
Belim Memorial United  
Methodist Church, Inc.  
Tms #41-0114-150-00-00  
D.B. 551, Pg. 315  
P.B. 8, Pg. 201  
P.B. 654, Pg. 11

PLOT SCALE: 1"=30'  
 PLOT P.E.: MFC/06/2023  
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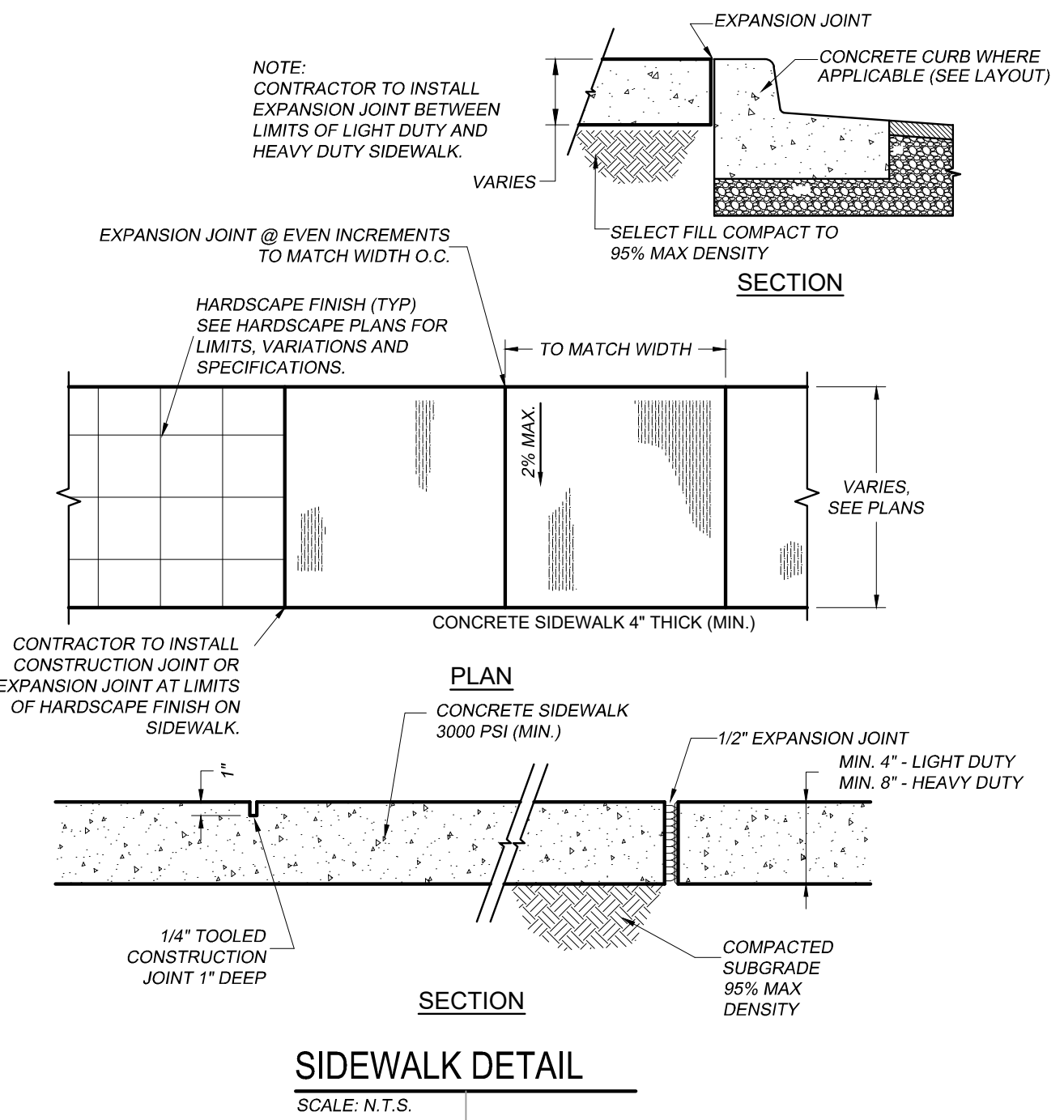
Florian  
T.M. & M.C.



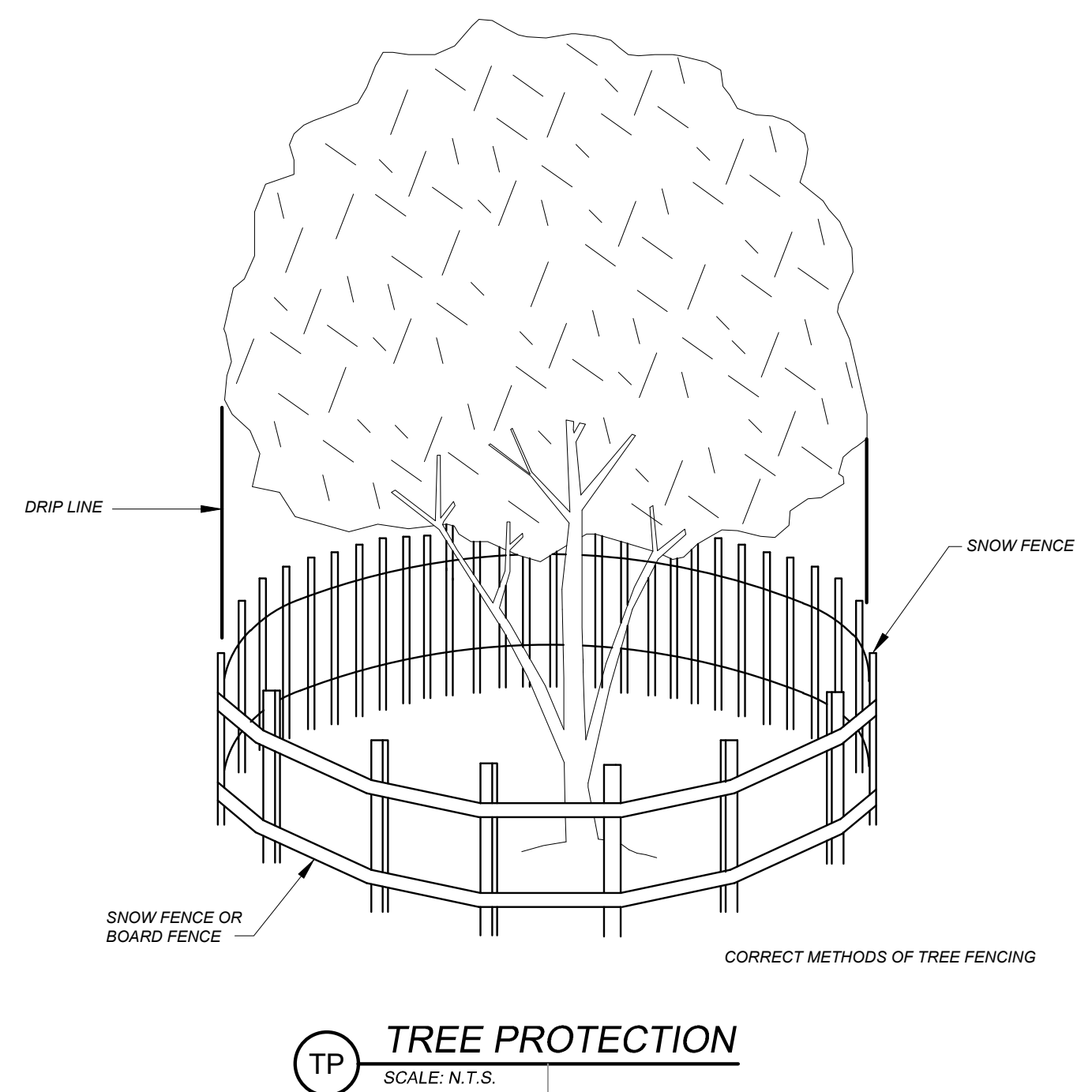




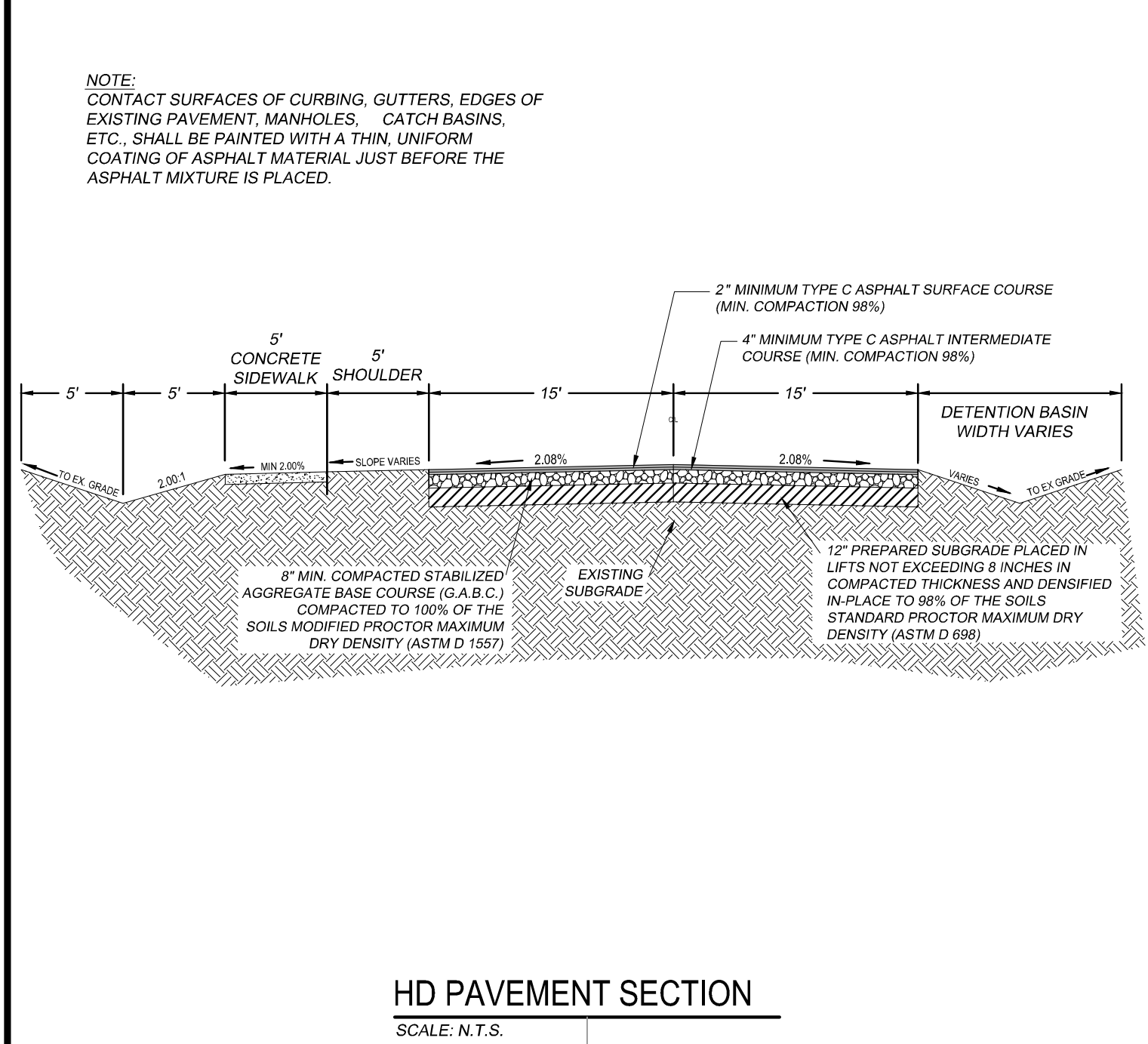
**PHASE 1 INLET PROTECTION**  
SCALE: N.T.S.



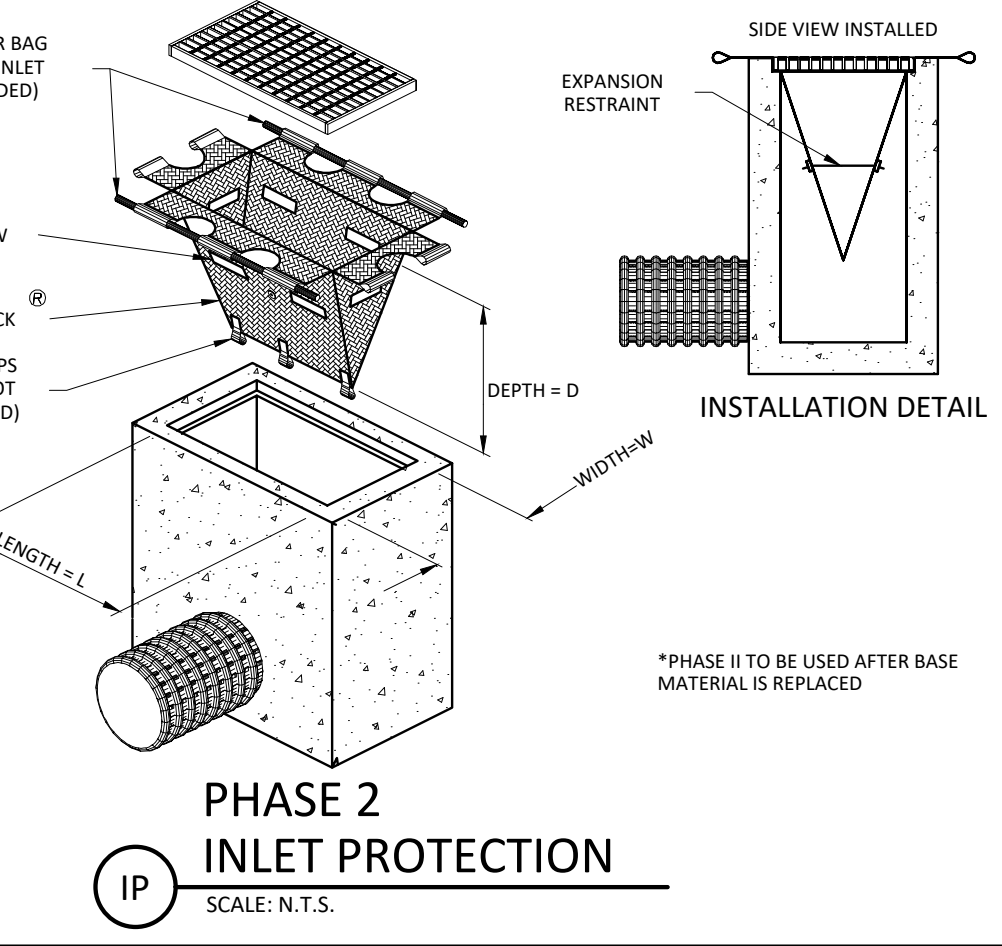
**SIDEWALK DETAIL**  
SCALE: N.T.S.



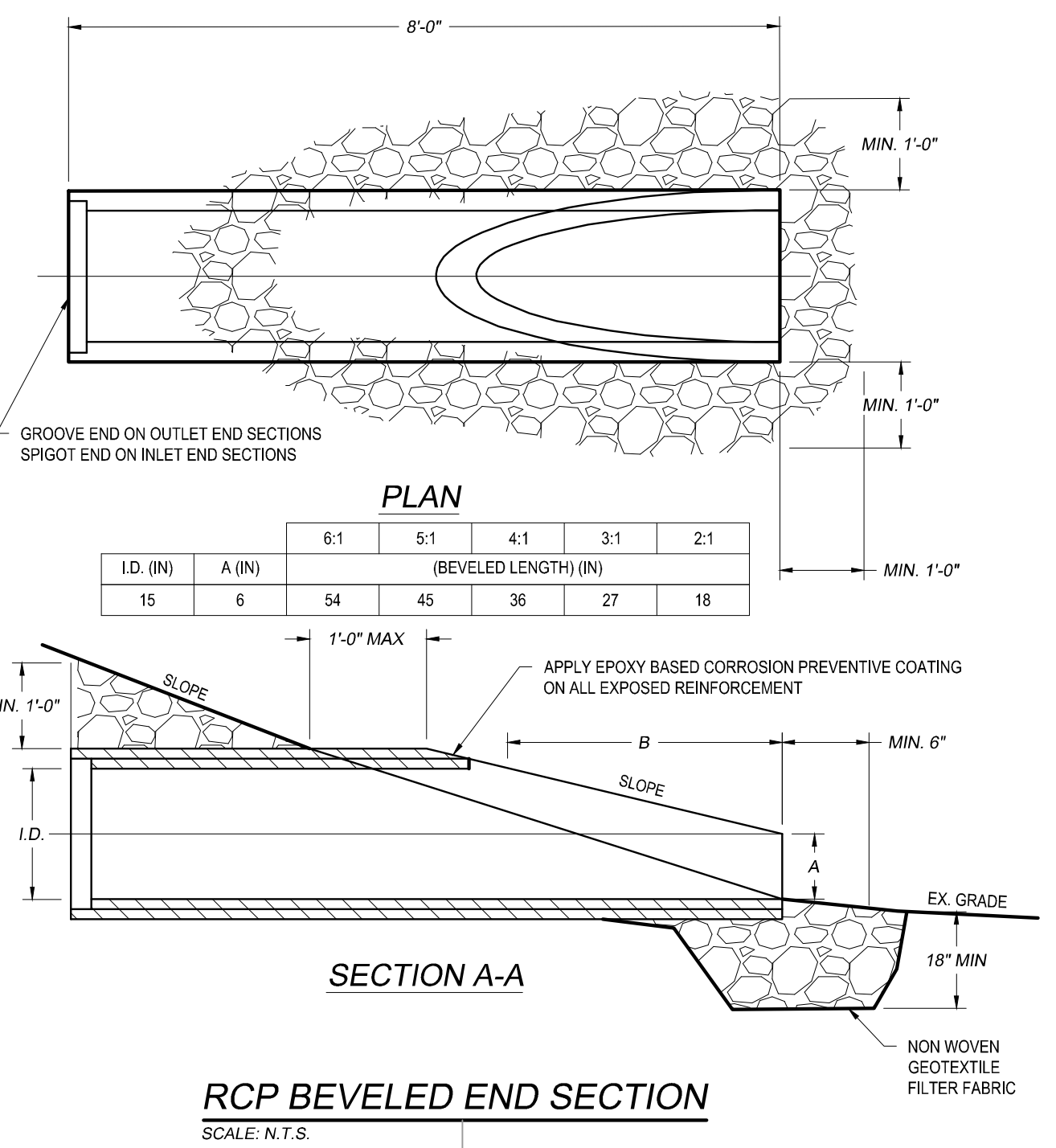
**TP TREE PROTECTION**  
SCALE: N.T.S.



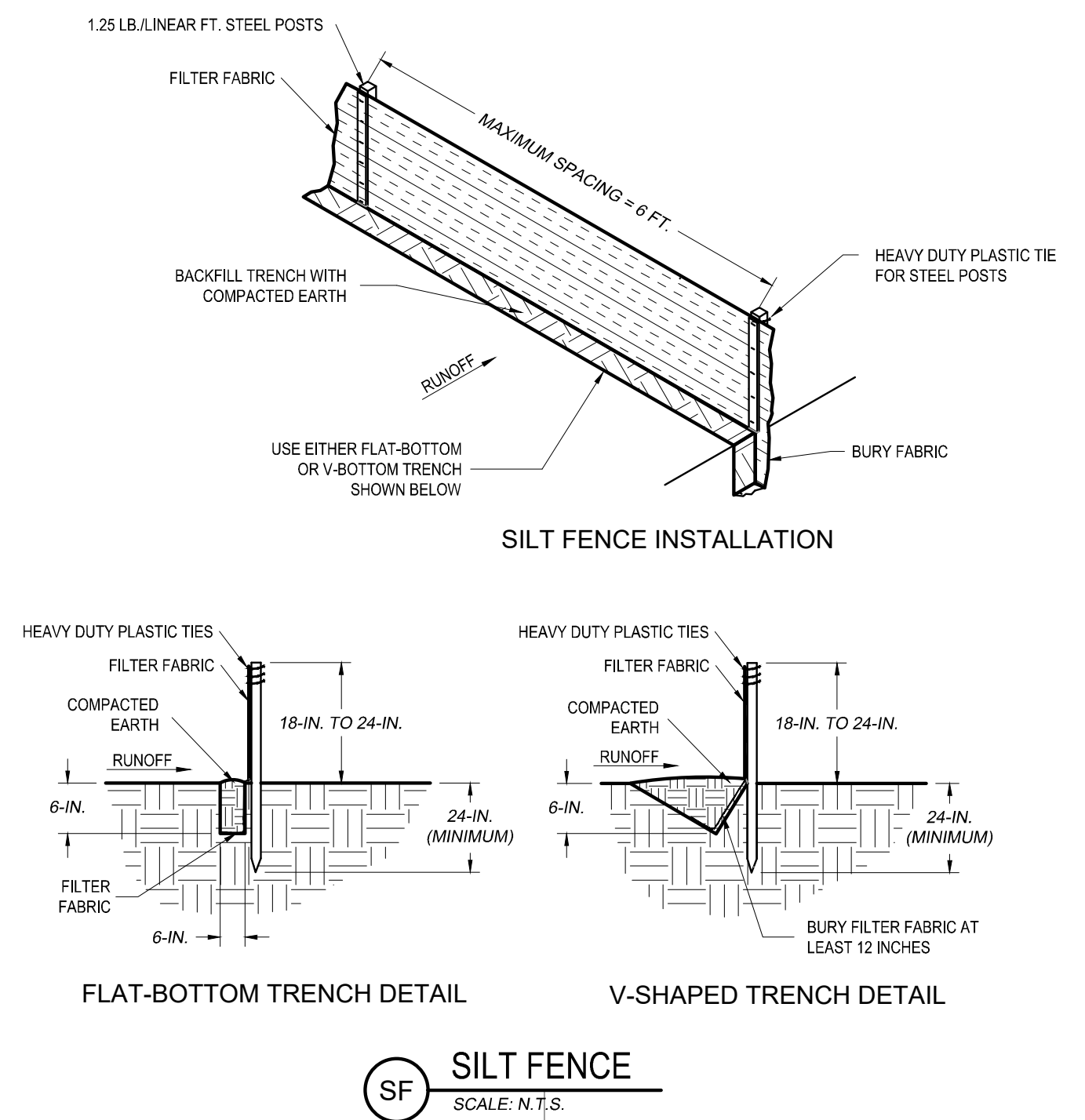
**HD PAVEMENT SECTION**  
SCALE: N.T.S.



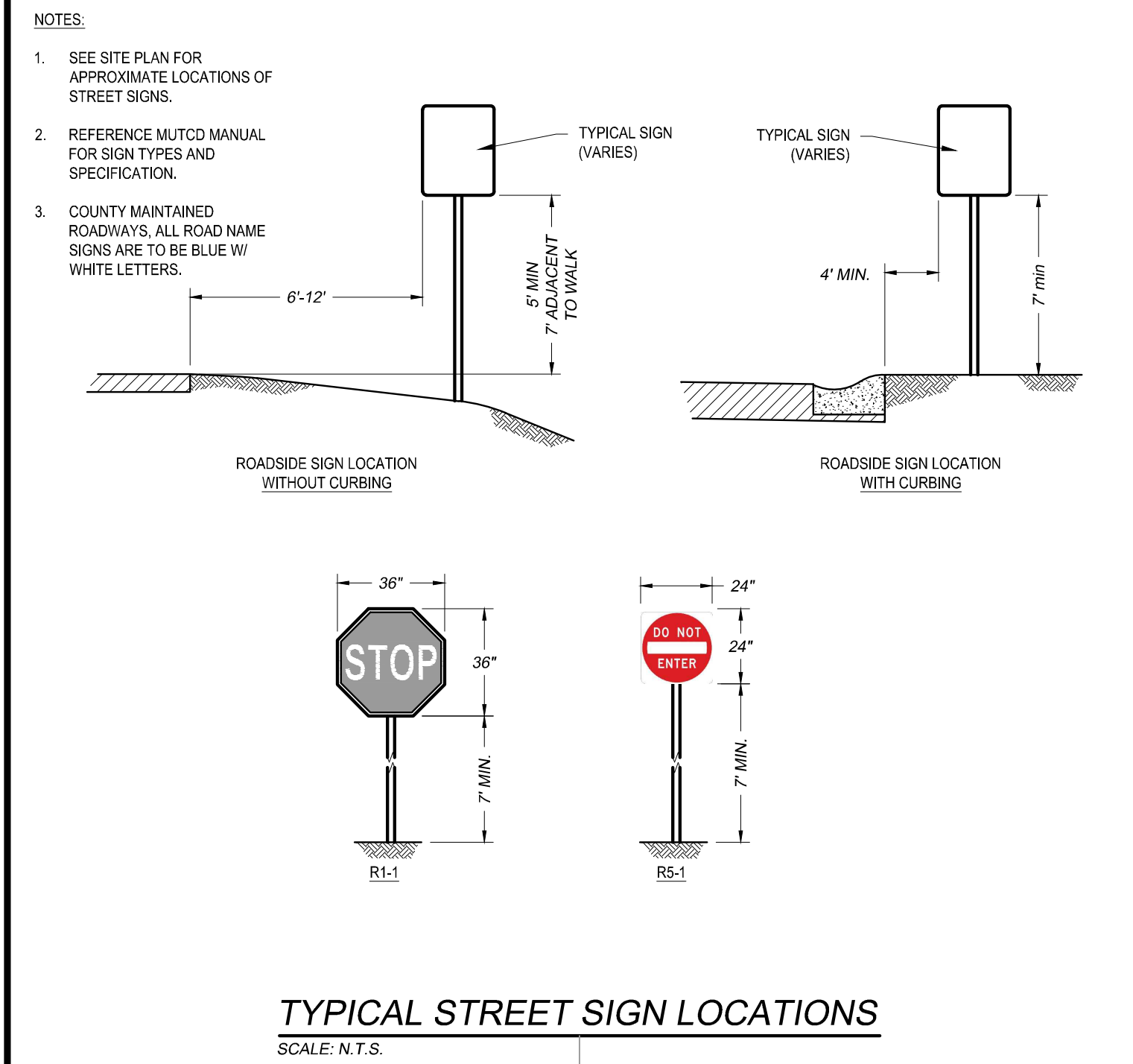
**PHASE 2 INLET PROTECTION**  
SCALE: N.T.S.



**RCP BEVELED END SECTION**  
SCALE: N.T.S.



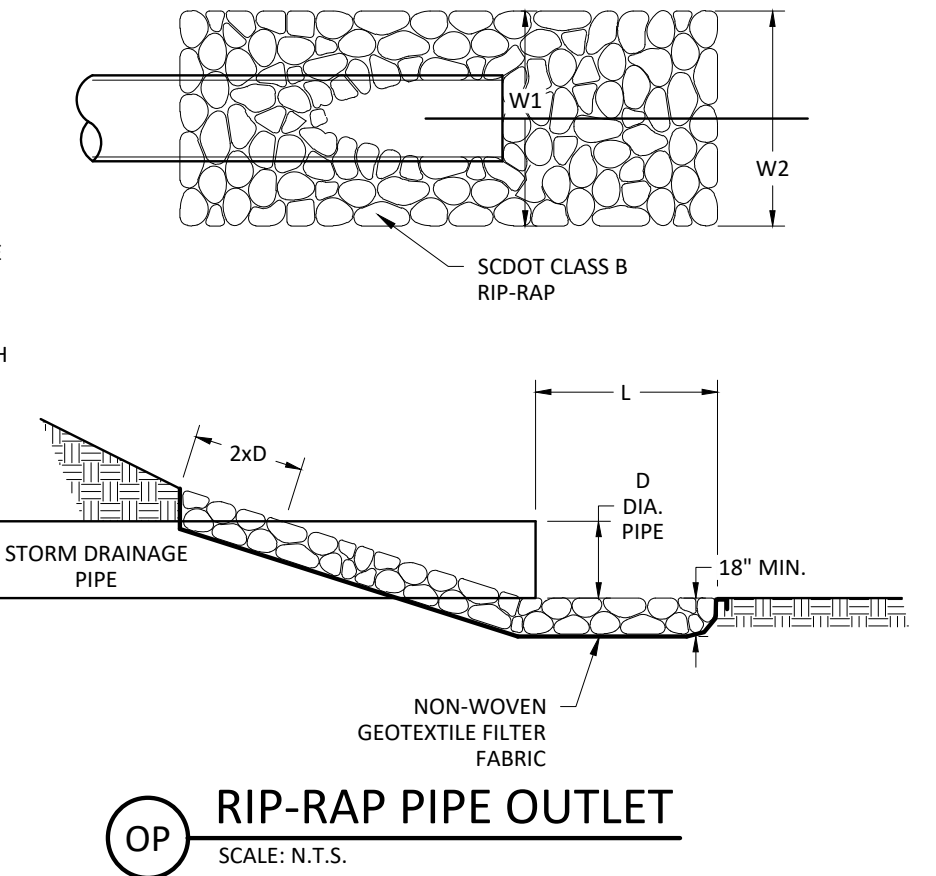
**SF SILT FENCE**  
SCALE: N.T.S.



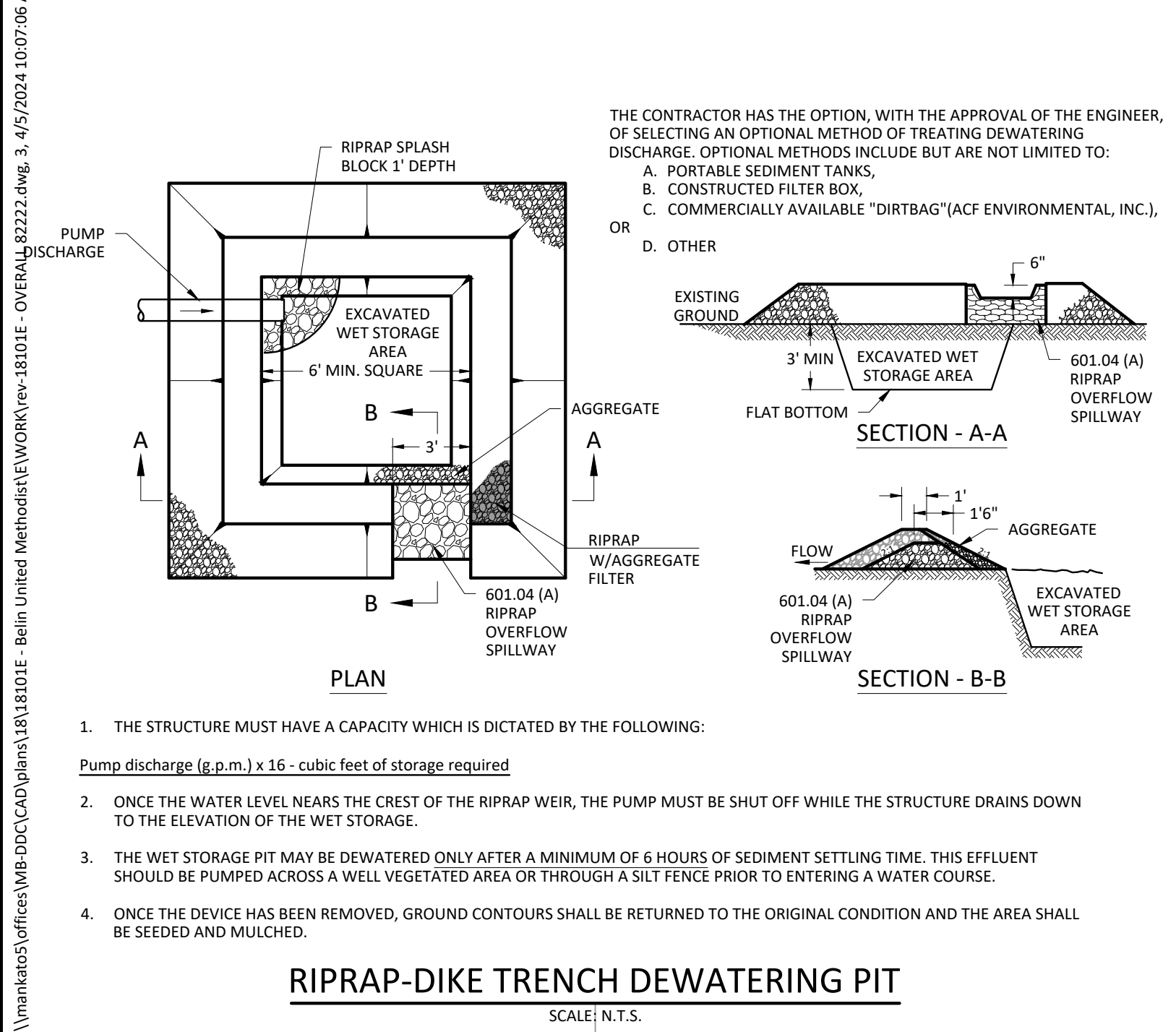
**TYPICAL STREET SIGN LOCATIONS**  
SCALE: N.T.S.

NOTES:  
1. FILTER FABRIC TO BE INSTALLED BENEATH STONE RIP-RAP.  
2. WHEN PIPE EMPTIES INTO A DITCH OR SWALE, THE RIP-RAP WILL TAKE THE SHAPE OF THE DITCH OR SWALE, SEE PLAN VIEW FOR LIMITS.

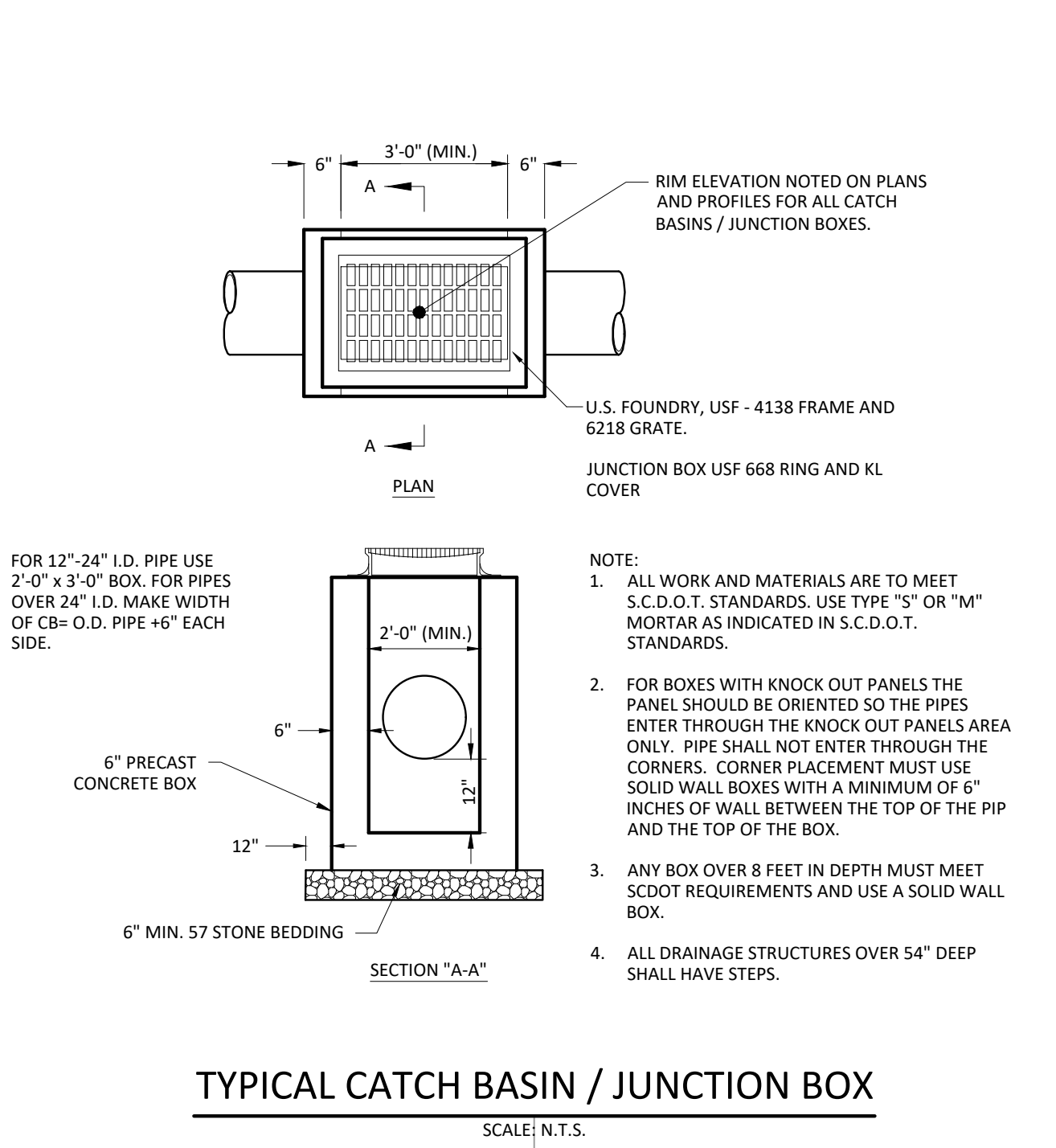
LOCATION	W1	W2	L
END 5	5'-0"	12'-0"	10'-0"
END 7	5'-0"	12'-0"	10'-0"
DS-1 OUTLET	4'-0"	7'-0"	5'-0"



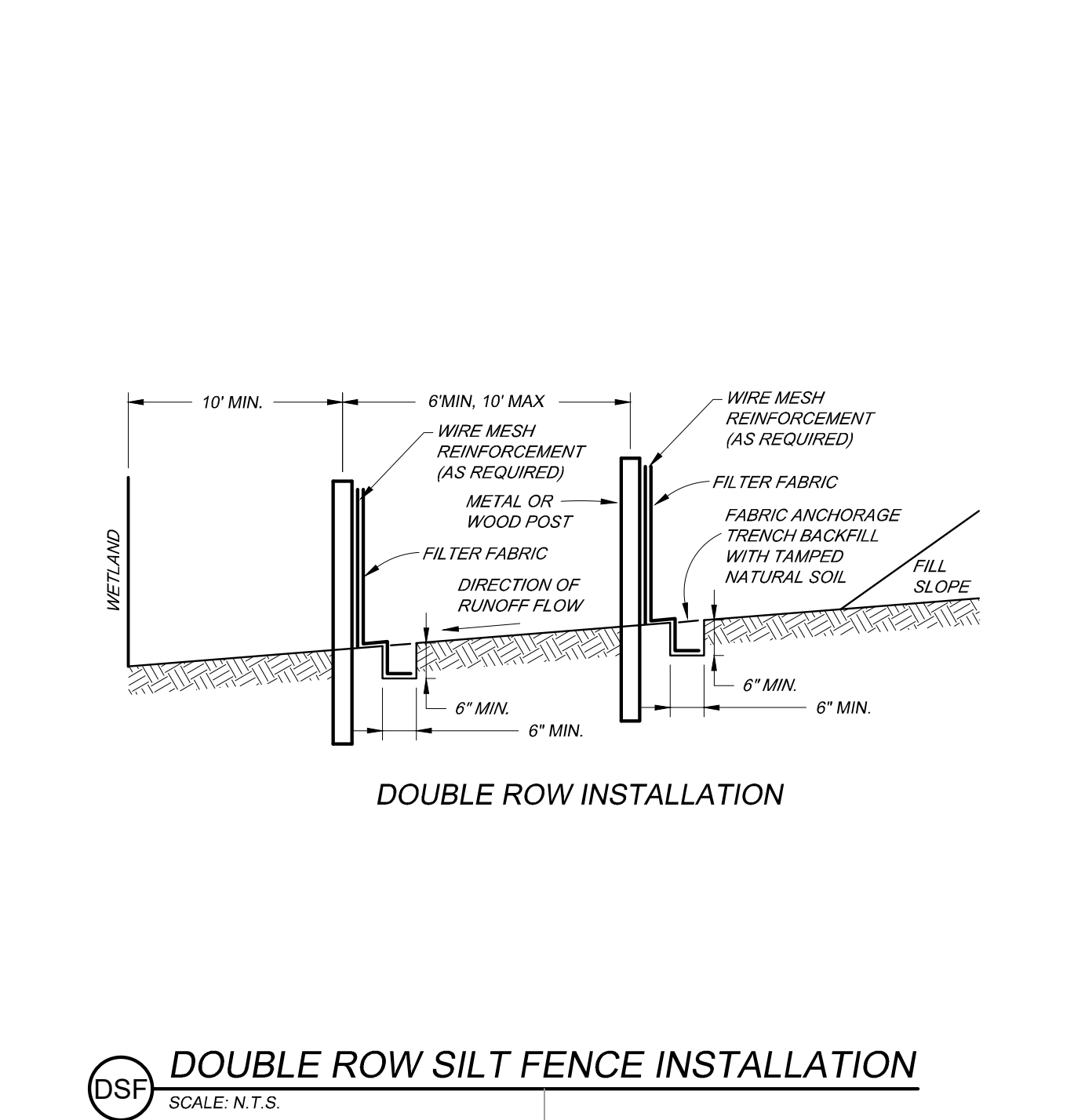
**OP RIP-RAP PIPE OUTLET**  
SCALE: N.T.S.



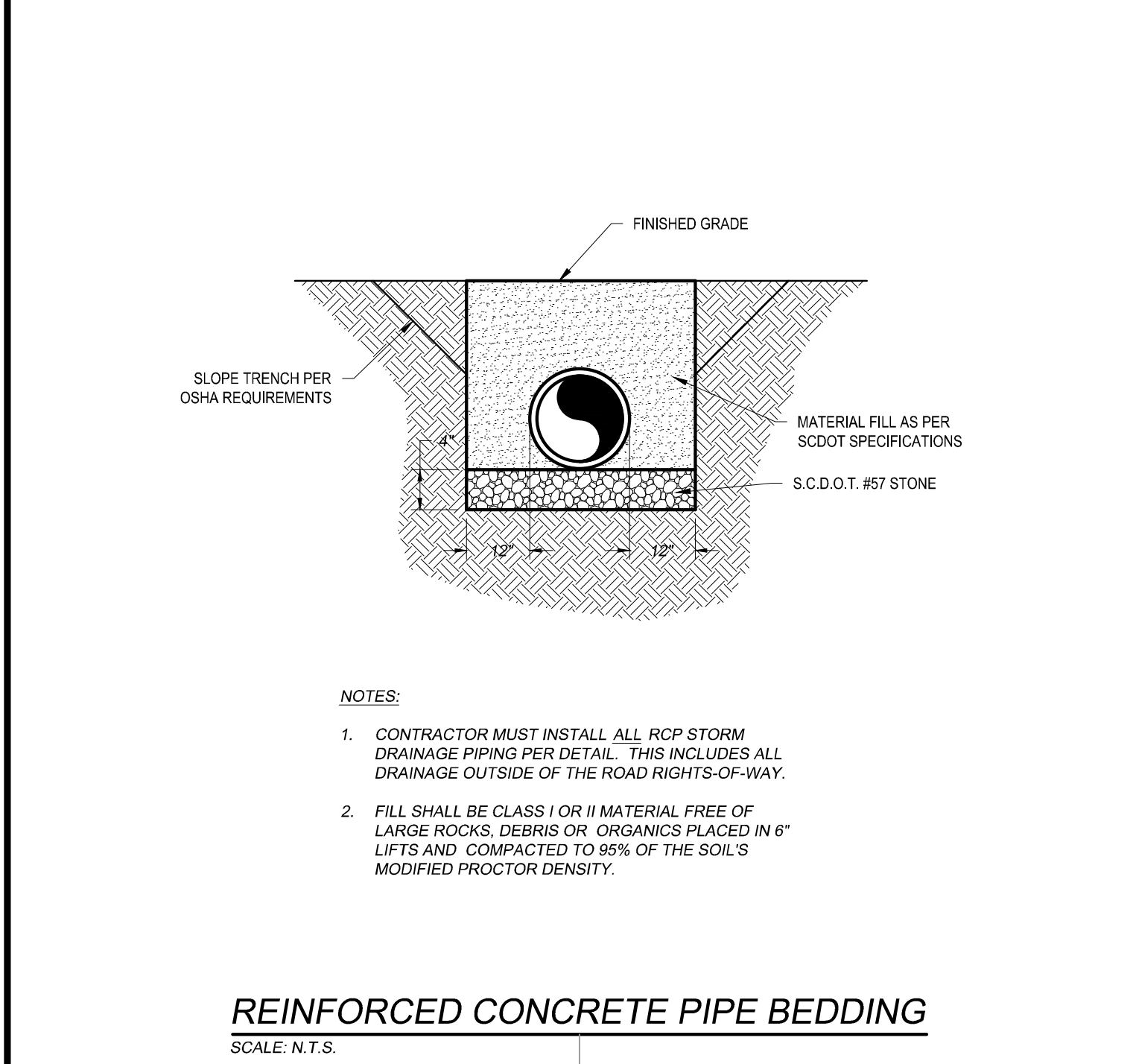
**RIPRAP-DIKE TRENCH DEWATERING PIT**  
SCALE: N.T.S.



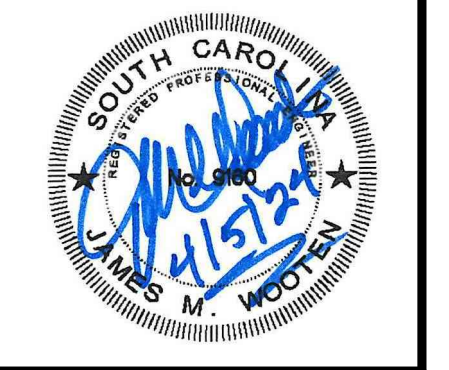
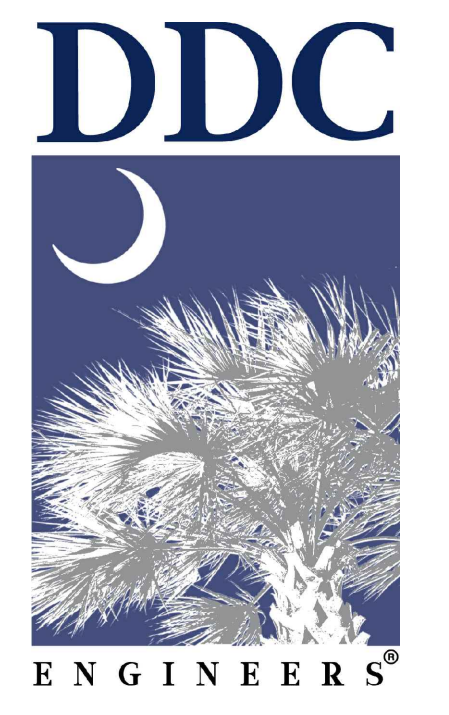
**TYPICAL CATCH BASIN / JUNCTION BOX**  
SCALE: N.T.S.



**DSF DOUBLE ROW SILT FENCE INSTALLATION**  
SCALE: N.T.S.



**REINFORCED CONCRETE PIPE BEDDING**  
SCALE: N.T.S.



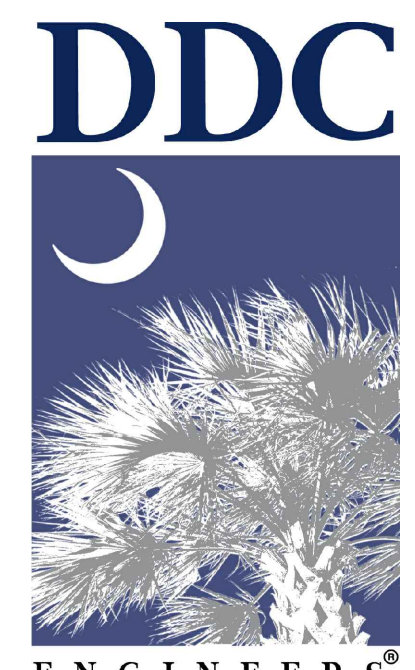
NO.	DATE	REVISION DESCRIPTION	JTW	BY
3	04/25/2024	COUNTY COMMENT UPDATE		

**SITE DETAILS**  
BELVIN UMC  
Horry County, South Carolina  
PREPARED FOR: BELVIN UMC

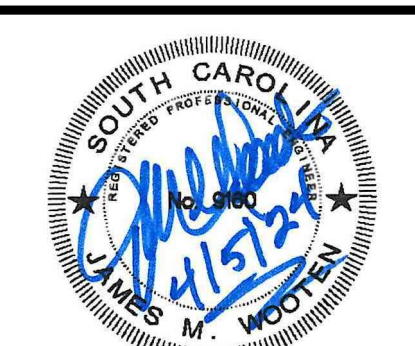
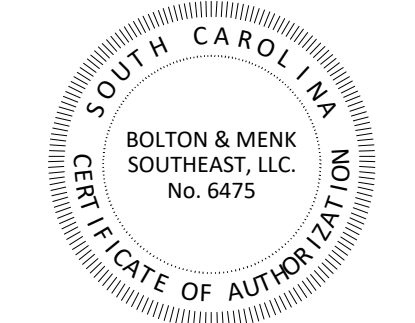
SCALE:	AS NOTED
DATE:	4/20/20
DESIGNED BY:	J/S/C
DRAWN BY:	BLS
APPROV. BY:	JMW
PROJECT NO.:	18101E

**3**  
FILE NO.: 18101E - OVERALL





Consulting Engineers, Surveyors, Planners, Landscape Architects & Environmentalists  
1298 Professional Dr., Myrtle Beach, SC 29577  
Phone: (843) 692-3200 Fax: (843) 692-3210



DATE: 3/11/2024 COUNTY COMMENT UPDATE  
NO. 2 REVISION DESCRIPTION  
BY: JTW

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PREPARED FOR: BELVIN UMC

BELVIN UMC  
Horry County, South Carolina

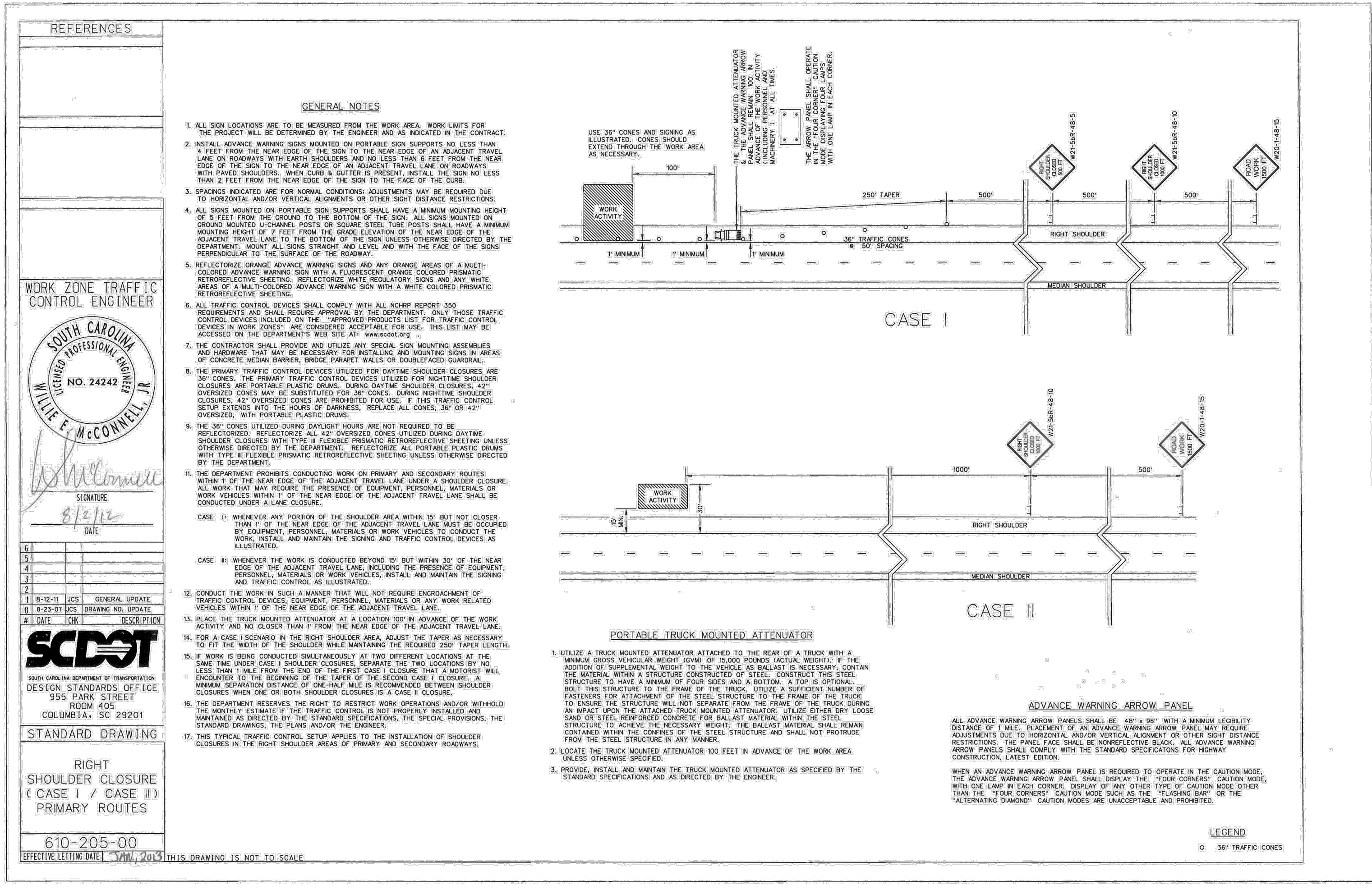
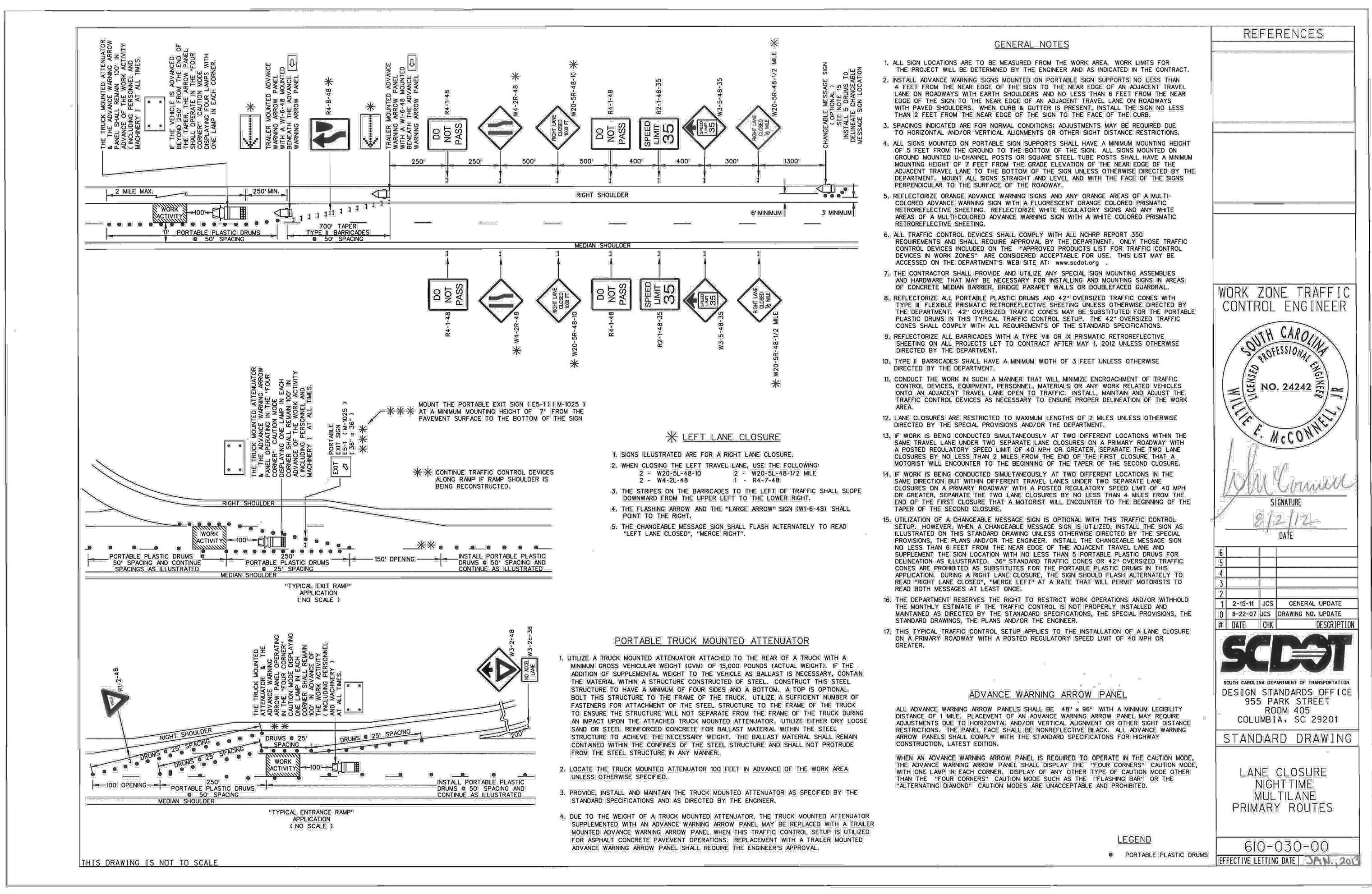
SCALE: AS NOTED  
DATE: 4/20/20  
DESIGNED BY: SJC  
DRAWN BY: BLS  
APPROV. BY: JMW  
PROJECT NO.: 18101E

4

FILE NO.: 18101E - OVERALL

SCDOT STANDARD NOTES:

- THERE CAN BE NO WORK PERFORMED IN THE SCDOT R/W BEFORE AN ENCROACHMENT PERMIT HAS BEEN ISSUED AND A PRECONSTRUCTION MEETING HAS BEEN HELD. THE PROPERTY OWNER AND CONTRACTOR MUST SCHEDULE AND ATTEND THE PRECONSTRUCTION MEETING.
- ANY WORK PERFORMED BEFORE THE PRECONSTRUCTION MEETING WILL HAVE TAKEN PLACE WITHOUT SCDOT KNOWLEDGE, OVERSIGHT, AND CONSENT AND SHALL BE SUBJECT TO REMOVAL BY THE APPLICANT AND/OR AT THE APPLICANT'S EXPENSE.
- ANY REVISIONS TO THIS APPROVED PLAN SET MUST HAVE PRIOR, WRITTEN APPROVAL FROM SCDOT OR ARE SUBJECT TO REMOVAL AT THE APPLICANT'S EXPENSE.
- THE CONSTRUCTION ENTRANCE MUST BE ESTABLISHED AT THE LOCATION DESIGNATED IN THIS PLAN SET AND ACCORDING TO SCDOT TYPICAL 815-505-00. NO ADDITIONAL ENTRANCES OR LOCATIONS OTHER THAN SHOWN IN THIS PLAN SET ARE ALLOWED WITHOUT WRITTEN NOTICE FROM SCDOT. APPROVED CONSTRUCTION ENTRANCE SHALL BE INSTALLED PROPERLY AND SHALL BE MAINTAINED AT ALL TIMES. KEEP ROADWAY PROTECTED AND SHEFT OFF AT ALL TIMES. ANY ADDITIONAL, EXISTING DRIVEWAYS OR CONSTRUCTION ENTRANCES, IF ANY, SHALL BE REMOVED FROM SCDOT RIGHT OF WAY AT NO EXPENSE TO SCDOT.
- NO Dewatering activities shall be performed within SCDOT R/W OR BRING FORTH WATER TO THE SCDOT RIGHT OF WAY BY DIRECT OR INDIRECT METHODS.
- POST DEVELOPMENT STORMWATER FLOWS TO THE SCDOT R/W CANNOT EXCEED PREDEVELOPMENT FLOW RATES AT ANY TIME FOR ANY REASON.
- THE APPLICANT IS SOLELY RESPONSIBLE FOR REPAIRS OF ANY AND ALL DAMAGE TO THE TRAVEL WAY DUE TO ANY WORK ALONG THE FRONTAGE OF THIS SITE, AT NO EXPENSE TO SCDOT AND ALL REPAIRS MUST MEET CURRENT SCDOT STANDARDS.
- ANY DAMAGE TO THE TRAVEL LANE WILL REQUIRE A FULL DEPTH ASPHALT PATCH AND TOTAL ROADWAY (ALL ADJACENT TRAVEL LANES) ASPHALT OVERLAY. PATCHES LARGER THAN A FEW SQUARE FEET OR EXTENDING PAST 1 FOOT INTO THE TRAVEL LANE SHALL REQUIRE AN OVERLAY OF THE ENTIRE WIDTH OF THE EXISTING TRAVEL WAY FOR 50 FEET BEYOND EACH SIDE OF THE FULL DEPTH PATCH. ALL OF THIS WORK WILL BE SOLELY AT THE EXPENSE OF THE APPLICANT AND MUST MEET CURRENT SCDOT STANDARDS.
- BEFORE INSTALLATION OF ANY NEW DRIVEWAY, THE EXISTING TRAVEL EDGE MUST BE SAW CUT TO PROVIDE A STRAIGHT AND UNIFORM EDGE ALONG THE MOUTH OF THE PROPOSED DRIVEWAY. CARE MUST BE TAKEN TO NOT TO DAMAGE THE EDGE ONCE CUT. ANY DAMAGE TO THE TRAVEL LANE MUST BE REPAIRED AT THE APPLICANT'S EXPENSE.
- PAVEMENT SECTION IN THE SCDOT R/W SHALL BE, AT A MINIMUM:
  - 6 INCHES OF COMPACTED GABC
  - 4 INCHES OF COMPACTED TYPE B BINDER COURSE HOT MIX ASPHALT
  - 2 INCHES OF COMPACTED TYPE B SURFACE COURSE HOT MIX ASPHALT
 SEE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION FOR SURFACE COURSE HOT MIX ASPHALT INSTALLATION TIME AND TEMPERATURE RESTRICTIONS AND THERMO PLASTIC TIME AND TEMPERATURE RESTRICTIONS.  
NO REINFORCEMENT WIRE, REBAR, OR METAL OF ANY KIND IS PERMITTED
- DRIVEWAY LANES SHALL BE A MINIMUM OF 12 FEET IN WIDTH MEASURED FROM EDGE TO EDGE OF ASPHALT.
- DRIVEWAY RADI SHALL BE 30 FEET. (UNLESS NOTED OTHERWISE ON THE SCDOT APPROVED PLANS.)
- PAVEMENT MARKINGS SHALL BE THERMOPLASTIC WITH REFLECTIVE BEADS PER SECTION 627 OF THE SCDOT STANDARD SPECIFICATIONS:
  - ALL WHITE MARKINGS SHALL BE 125 MIL MINIMUM THICKNESS
  - ALL YELLOW MARKINGS SHALL BE 90 MIL MINIMUM THICKNESS
- ALL PERMANENT SIGNAGE SHALL BE INSTALLED ON BREAKAWAY POSTS PER SCDOT STANDARD DRAWING 651-110-00 AND SHALL HAVE A 7 VERTICAL FOOT CLEARANCE FROM THE GROUND TO THE BOTTOM OF THE SIGN.
- DRIVEWAYS SHALL BE CONSTRUCTED TO HAVE A MINIMUM OF A 2 FOOT GRASSED SHOULDER ON EACH SIDE OF THE DRIVEWAY THROAT.
- DITCH SLOPES SHALL BE NO STEEPER THAN 3H:1V.
- ALL DRIVEWAY CULVERTS SHALL BE INSTALLED AND SEALED ACCORDING TO SCDOT TYPICAL 714-205-01 DETAIL 4 AND 5 WITH AN AASHTO M 315 RUBBER GASKET SEAL, ON PROPER GRADE TO ALLOW FOR POSITIVE STORM WATER FLOW WITHIN THE PIPE AND TO/FROM ADJACENT PIPES/CROSS LINES.
- ALL CULVERTS INSIDE OF THE SCDOT R/W ARE TO BE INSTALLED WITH BEVELED ENDS PER SCDOT STANDARD DRAWING 719-610-00 AND SEALED PER SCDOT STANDARD DRAWING 714-205-01 AND CANNOT BE COVERED UNTIL AFTER AN INSPECTION BY THE SCDOT INSPECTOR ASSIGNED TO THE PROJECT AT THE REQUIRED SCDOT PRECONSTRUCTION MEETING.
- LANE CLOSURES ARE REQUIRED FOR ALL WORK WITHIN ONE FOOT OF THE TRAVEL WAY. SEE SCDOT LOCAL MAINTENANCE WORK RESTRICTIONS FOR ADDITIONAL INFORMATION.
- SHOULDER CLOSURES ARE REQUIRED FOR ALL WORK IN THE SCDOT R/W BEYOND ONE FOOT FROM THE TRAVEL WAY.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SCHEDULE ALL REQUIRED INSPECTIONS IN ADVANCE. IF WORK REQUIRING INSPECTION IS PERFORMED WITHOUT PRIOR NOTICE BEING GIVEN TO SCDOT, THAT INSTALLATION SHALL BE SUBJECT TO REMOVAL AT THE APPLICANT'S EXPENSE. SEVERAL MEANS OF CONTACT WILL BE GIVEN AT THE PRECONSTRUCTION MEETING. FAILURE TO OBTAIN CONTACT IS NOT AN APPROVAL TO PROCEED WITH ANY WORK.
- NO VEGETATION INSTALLED ON PRIVATE PROPERTY SHALL BLOCK THE SCDOT SIGHT TRIANGLES OR SIGHT DISTANCES FOR MOTORISTS INGRESS OR EGRESS FROM APPROVED DRIVEWAYS AND OR ROADWAY INTERSECTIONS. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR KEEPING OFFSITE LANDSCAPINGS PROPERLY MAINTAINED TO IMPROVE ALL SIGHT DISTANCES. THE PROPERTY OWNER SHALL ALSO BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGES TO SIDEWALK, DRIVEWAY OR ROADWAY, UTILITY, DRAINAGE OR OTHER STRUCTURES DAMAGED DUE TO THE INSTALLATION OR EXISTENCE OF OFFSITE LANDSCAPING.
- THE DEPARTMENT SHALL NOT BE RESPONSIBLE FOR DAMAGE TO ANY UTILITY STRUCTURES LOCATED WITHIN THE RIGHT-OF-WAY AS A RESULT OF ROUTINE HIGHWAY MAINTENANCE OPERATIONS. THESE STRUCTURES INCLUDE BUT ARE NOT LIMITED TO ARV, METERS, VALVES, MANHOLES, ALL TYPE OF PEDESTALS AND UTILITY LINES (OVERHEAD AND/OR UNDERGROUND). THE APPLICANT SHOULD USE MECHANICAL MOWERS TO CUT AROUND THESE TYPE STRUCTURES TO INCREASE VISIBILITY FOR HIGHWAY MAINTENANCE WORKERS.



\\mar05\offices\MB-DDC\CAD\CAD\DWG\18101E - OVERALL 8/22/22.dwg, 4, 4/5/2024 10:07:11 AM, ARCH (expand D [36.00 x 24.00 inches])



