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BERKELEY-DORCHESTER REACH INTERCONNECT DIVISION I BERKELEY COUNTY, SC

EDA # 04-07-07-289

PREPARED FOR:

BERKELEY COUNTY

1003 HIGHWAY 52

PO BOX 6122

MONCKS CORNER, SC 29461

TM# MULTIPLE

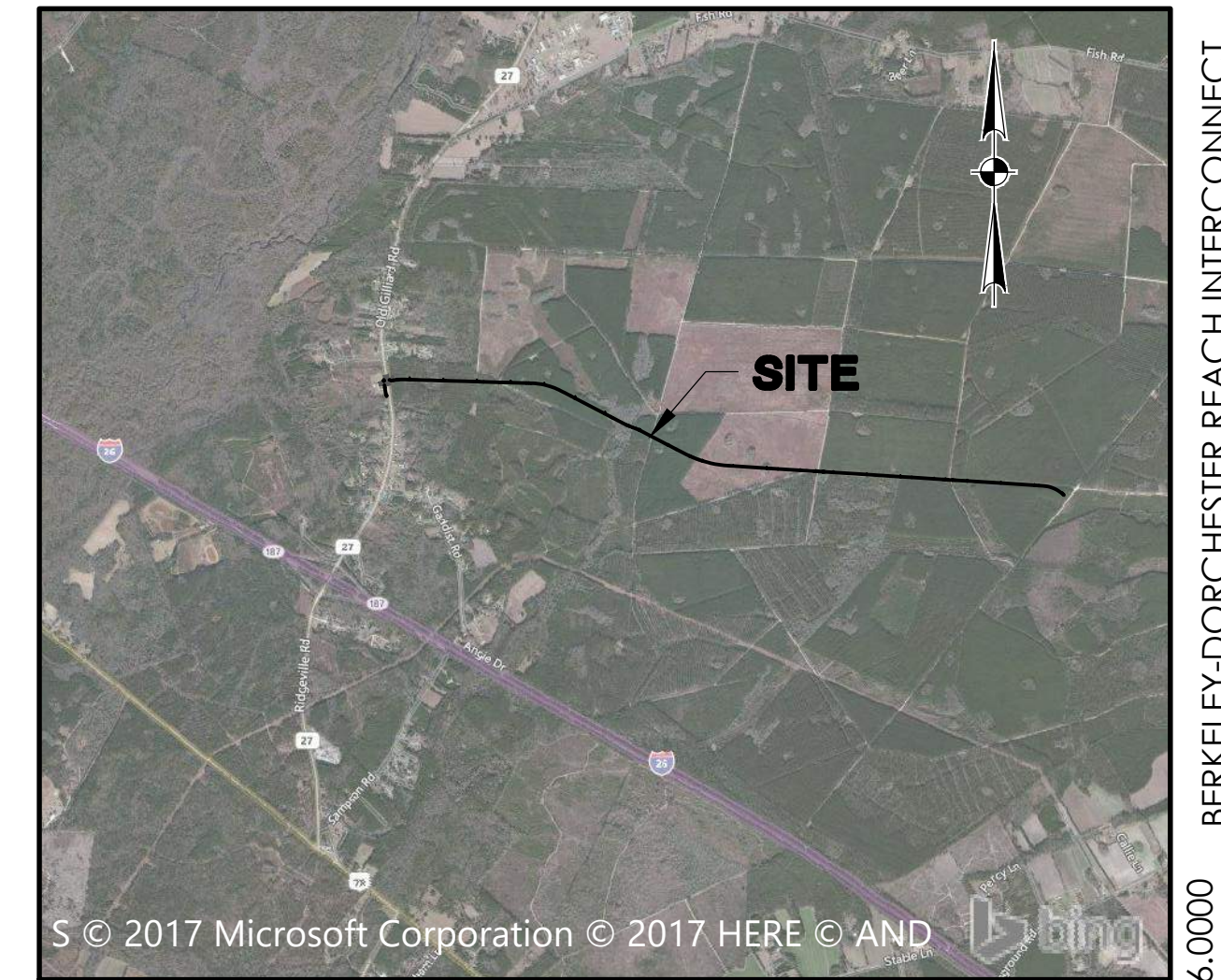
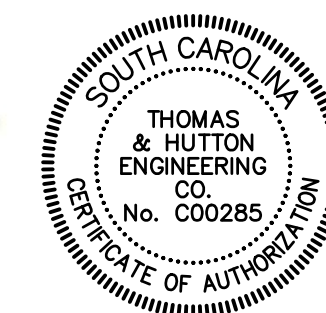
JANUARY 11, 2021

J-26926.0000

PREPARED BY:



IF ARCHEOLOGICAL MATERIALS ARE ENCOUNTERED DURING CONSTRUCTION, THE PROCEDURES CODIFIED AT 22 CFR 800.13(B) WILL APPLY AND EDA AND THE SOUTH CAROLINA STATE HISTORICAL PRESERVATION OFFICE SHALL BE CONTACTED IMMEDIATELY. ARCHEOLOGICAL MATERIALS CONSIST OF ANY ITEMS, FIFTY YEARS OR OLDER WHICH WERE MADE OR USED BY MAN. THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO, STONE PROJECTILE POINTS (ARROWHEADS), CERAMIC SHERDS, BRICKS WORKED WOOD, BONE AND STONE, METAL AND GLASS OBJECTS, AND HUMAN SKELETAL REMAINS.



VICINITY MAP
SCALE: 1" = 4,000'

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REVISION HISTORY

REV. NO.	REVISION	BY	DATE
4	DIVISION 1	JTB	01-11-2021
3	PER 90% BCWS COMMENTS	JTB	10/17/2019
2	PER 60% BCWS COMMENTS	JTB	6/26/2019
1	PER 30% BCWS COMMENTS	JTB	9/9/2019

SUBMITTAL HISTORY

SUBMITTED TO	DATE
PTC	4/23/20
SCDHEC	1/22/20
USACE	1/14/20
SCDOT	11/7/19
BC ROAD & BRIDGE	10/31/19
BCWS	7/9/19



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J-26926.0000 01/11/21 BERKELEY-DORCHESTER REACH INTERCONNECT

EROSION CONTROL LEGEND	
DESCRIPTION	PLAN SYMBOL
SILT FENCE	
CLEARING LIMITS	— CL — CL —
LIMITS OF DISTURBANCE	— LOD —
SUBSURFACE DRAIN	
TREE PROTECTION	
TEMPORARY SEEDING	(TS)
PERMANENT SEEDING	(PS)
SODDING	(SO)
RIPRAP	
OUTLET PROTECTION - RIP RAP	
SEDIMENT TRAP	
ROCK CHECK DAM	
STABILIZED CONSTRUCTION ENTRANCE	
STORM DRAIN INLET PROTECTION - TYPE A FILTER FABRIC	
STORM DRAIN INLET PROTECTION - TYPE E SURFACE COURSE CURB INLET FILTER	

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		
11-1/2° BEND - HORIZONTAL		
BEND - VERTICAL		
CAP		

ABBREVIATIONS					
HDPE	HIGH DENSITY POLYETHYLENE	JB	JUNCTION BOX	SDMH	STORM DRAINAGE MANHOLE
BOT	BOTTOM	LF	LINEAR FEET	SF	SQUARE FEET
CI	CURB INLET	MAX	MAXIMUM	SS	SANITARY SEWER
CPP	CORRUGATED PLASTIC PIPE	MIN	MINIMUM	TC	TOP OF CURB
DIP	DUCTILE IRON PIPE	MH	MANHOLE	TG	TOP OF GUTTER
EL	ELEVATION	OC	ON CENTER	TP	TOP OF PAVEMENT
FG	FINISH GRADE	PC	POINT OF CURVE	TW	TOP OF WALK
FH	FIRE HYDRANT	PH	POST HYDRANT	TYP	TYPICAL
FM	FORCE MAIN (SANITARY SEWER)	PT	POINT OF TANGENT	W	WATER
FP	FINISH PAD	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		

DRAINAGE LEGEND		
DESCRIPTION	EXISTING	PROPOSED
PIPE	-----	-----
DITCH		
CURB INLET		
GRATE INLET		
JUNCTION BOX		
OUTLET STRUCTURE		

- CONTRACTOR SHALL COORDINATE TIE-IN OF NEW WATER FACILITIES TO BERKELEY COUNTY WATER & SANITATION.
- CONTRACTOR SHALL MAINTAIN MINIMUM COVER OVER THE WATER MAIN PIPE BARREL OF 4'-0" UNLESS OTHERWISE INDICATED IN NO CASE SHALL THE WATER MAIN BE INSTALLED AT A LOWER ELEVATION THAN THAT SHOWN.
- SHOULD PIPE, FITTINGS, AND OTHER MATERIALS BE NEEDED IN ADDITION TO THAT SHOWN ON THE DRAWINGS BECAUSE PIPELINE WAS NOT INSTALLED TO THE ALIGNMENT AND PROFILE SHOWN, THEN THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THOSE NECESSARY MATERIALS AND PROVIDING THE EQUIPMENT AND LABOR TO INSTALL THEM TO MEET THE DESIGN INTENT OF THE WATERMAIN AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER 72 HOURS IN ADVANCE OF ALL REQUIRED TESTS AND INSPECTIONS.
- THE CONTRACTOR WILL NOTIFY THE ENGINEER IF UNSUITABLE MATERIAL IS DISCOVERED PRIOR TO BEGINNING ANY REMOVAL OPERATION.
- ALL WATERMANS SHALL BE POLYVINYL CHLORIDE (PVC C905) UNLESS OTHERWISE INDICATED.
- SURVEYING AND BOUNDARY INFORMATION BY THOMAS & HUTTON
- ALL ELEVATIONS SHOWN ARE BASED ON NAVD88.
- TOPOGRAPHIC SURVEY BY THOMAS & HUTTON.
- 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
- ANY DAMAGE TO EXISTING PAVEMENT MUST BE REPAIRED AT CONTRACTORS EXPENSE AND TO THE SATISFACTION OF THE COUNTY ENGINEER AND THE PROJECT ENGINEER.
- ALL RIGHT-OF-WAY AND DRAINAGE EASEMENT CONSTRUCTION SHALL MEET SCODOT STANDARD SPECIFICATIONS UNLESS SPECIFIED ELSEWHERE AND APPROVED IN WRITING BY THE COUNTY ENGINEER.
- WHERE FIELD INSPECTIONS ARE REQUIRED BY THE COUNTY, THE CONTRACTOR SHALL NOTIFY THE ENGINEERING DIVISION A MINIMUM OF 72 HOURS IN ADVANCE TO SCHEDULE SUCH INSPECTIONS.
- 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.
- THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL AND PREVENTION STRUCTURES SHOWN ON THE PLANS. BOTH MUST BE APPROVED BY BERKELEY COUNTY PRIOR TO BEGINNING ANY LAND DISTURBING ACTIVITIES.
- CONTRACTOR WILL BE REQUIRED TO ADJUST MANHOLE FRAMES TO MATCH FINAL GRADE AT NO ADDITIONAL COST.

- THE FOLLOWING NOTES ARE SPECIFIED BY THE SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL - OFFICE OF OCEAN AND COASTAL RESOURCES MANAGEMENT (SCDHEC-OCRM) AND ARE TO BE EXECUTED BY THE CONTRACTOR:
 - ALL SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND AFTER ANY STORM EVENT OF GREATER THAN 0.5 INCHES OF PRECIPITATION DURING ANY 24-HOUR PERIOD. ALL SEDIMENT CONTROL FEATURES SHALL BE MAINTAINED UNTIL FINAL STABILIZATION HAS BEEN OBTAINED.
 - STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED, UNLESS ACTIVITY IN THAT PORTION OF THE SITE WILL RESUME WITHIN 14 DAYS.
- ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE CONSTRUCTED SIMULTANEOUSLY WITH THE ARE STABILIZED. SILT BARRIERS WILL BE INSTALLED AS NECESSARY TO PREVENT EXCESSIVE
- SEDIMENTATION OF DOWNSTREAM AREAS. DEVICES SHALL BE IN ACCORDANCE WITH THE MANUAL OF "EROSION AND SEDIMENT CONTROL PRACTICES FOR DEVELOPING AREAS" BY THE S.C. LAND RESOURCES CONSERVATION COMMISSION.
- 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 AREAS DISTURBED WILL BE GRASSED IMMEDIATELY AFTER THE INSTALLATION. GRASSING SHALL BE IN ACCORDANCE WITH SECTION 810 OF THE SCODOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION CURRENT EDITION. PAYMENT SHALL BE AS SHOWN IN THE BID FORM AND SHALL BE COMPENSATION FOR ALL NECESSARY WORK AND MATERIALS TO COMPLETE THE SEEDING IN ACCORDANCE WITH THESE SPECIFICATIONS. (SEE SPECIFICATIONS BELOW)
- ALL DRAINAGE WILL BE MADE FUNCTIONAL DAILY AS WORK PROGRESSES.
- EACH EXISTING ROAD WILL BE CLEANED UP AND RESTORED DAILY.
- NEW PAVEMENT TO BE FLUSH WITH EDGE OF EXISTING PAVEMENT. ALL WATER VALVES SHALL COMPLY WITH SECTION 4.6 OF THE BCWS WATER SYSTEM STANDARDS AND SPECIFICATIONS.
- FIRE HYDRANTS TO BE PLACED NO MORE THAN EVERY 1,000 FEET WHEN APPLICABLE.
- SPACING ON ALL HYDRANTS SHALL BE 1,000' MEASUREMENTS WITHIN THE EXCEPTION OF AREAS WHERE DIRECTIONAL DRILL LENGTHS EXCEED 1,000 LF.

GENERAL NOTES

GENERAL INFORMATION

COUNTY BERKELEY
TOWN RIDGEVILLE
ZONING FLEX-1
RNC
GC

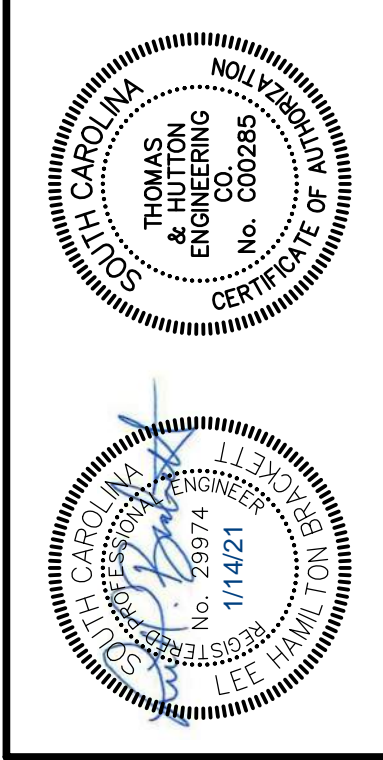
OWNER:
BERKELEY COUNTY
WATER & SANITATION
212 OAKLEY PLANTATION DRIVE
MONCK'S CORNER, SC 29461
843-719-4028

ENGINEER:
THOMAS & HUTTON
1501 MAIN STREET, SUITE 760
COLUMBIA, SC 29201
803-451-6782

PREPARED FOR:
BERKELEY COUNTY WATER & SANITATION
212 OAKLEY PLANTATION DRIVE
843-719-4028

SURVEYOR: THOMAS & HUTTON
682 JOHNNIE DODDS BOULEVARD, SUITE 100
MOUNT PLEASANT, SC 29464

UTILITY: BERKELEY COUNTY WATER & SANITATION
212 OAKLEY PLANTATION DRIVE
MONCK'S CORNER, SC 29461
843-761-8817



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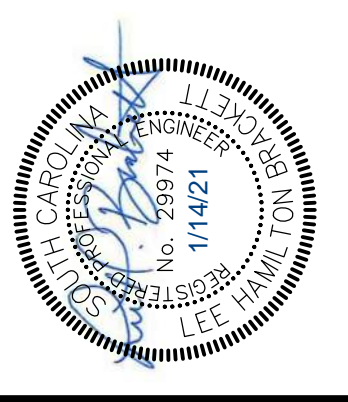
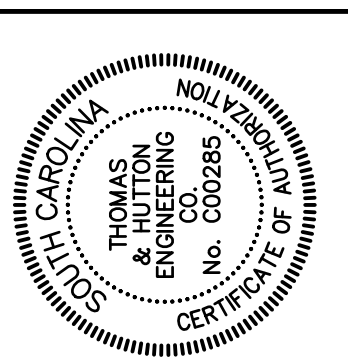
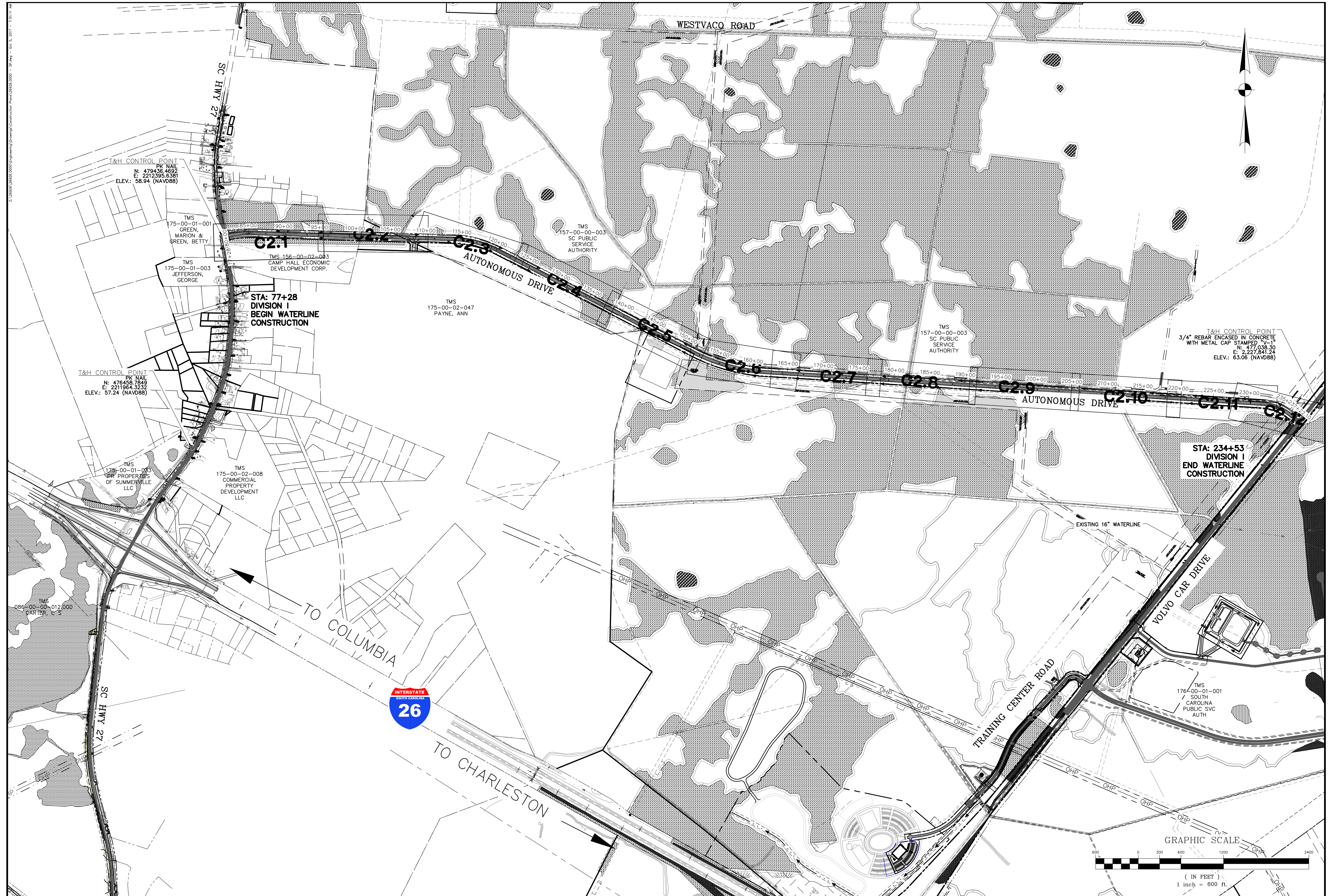
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BERKELEY-DORCHESTER REACH INTERCONNECT

DIV. I - GENERAL NOTES & INDEX

JOB NO:	J-26926.0000
DATE:	01/11/21
DRAWN:	JTB
DESIGNED:	LHB
REVIEWED:	PLB
APPROVED:	LHB
SCALE:	N/A

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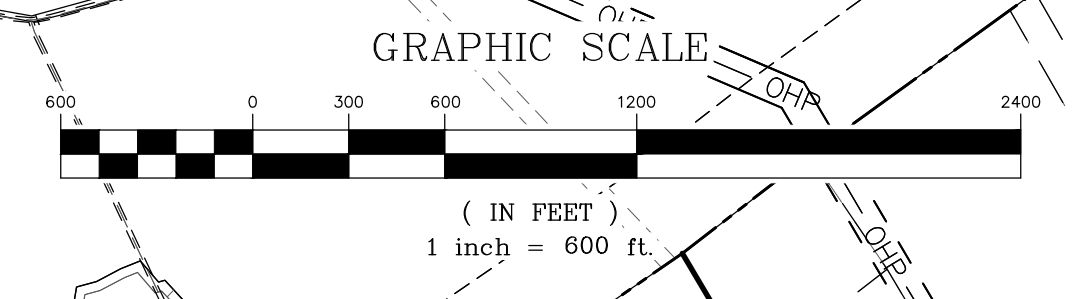
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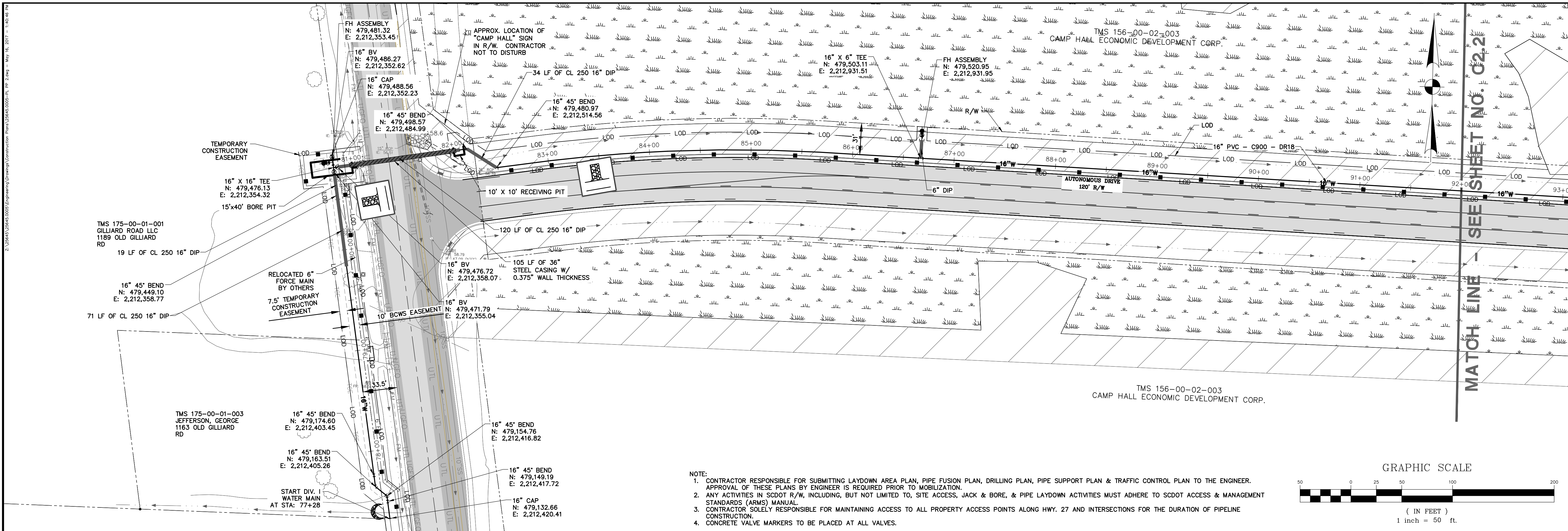
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BERKELEY-DORCHESTER REACH INTERCONNECT
 DIV. I - OVERALL SITE PLAN

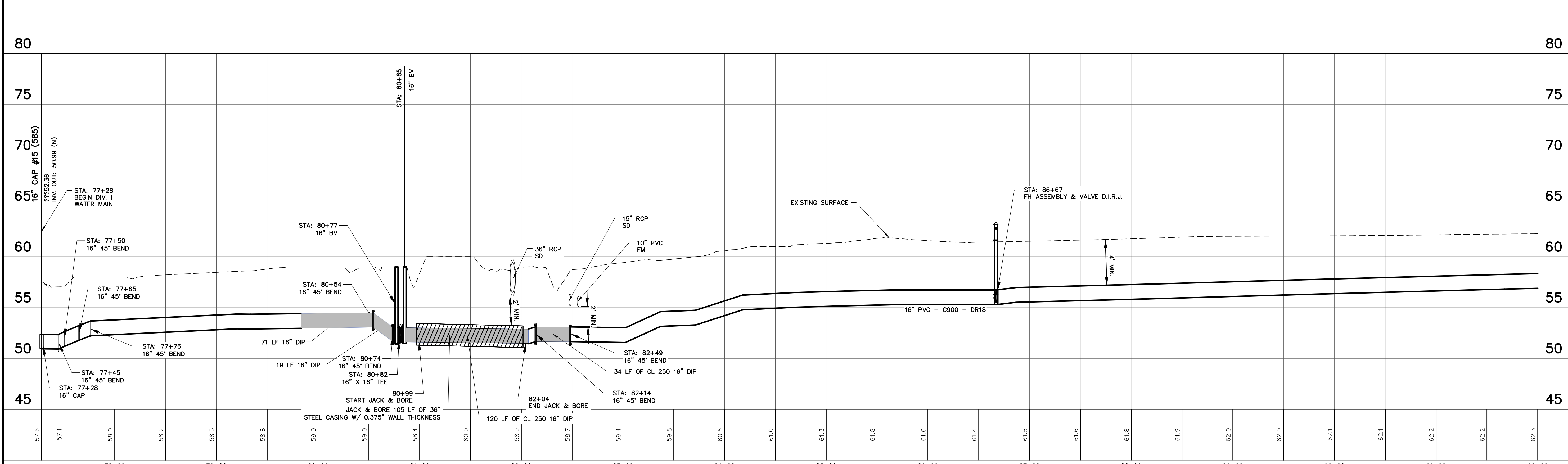
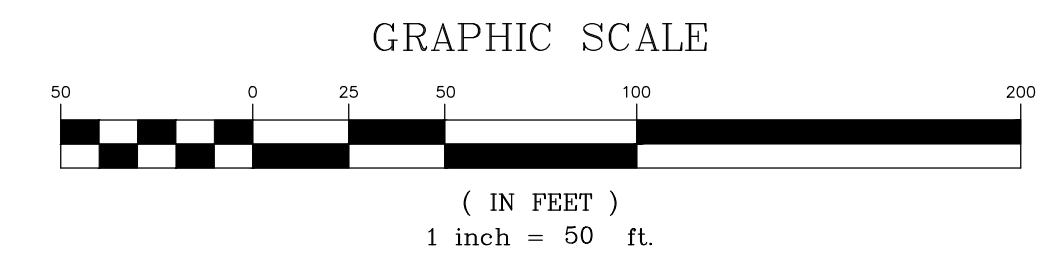
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 DATE: 01/11/21
 DRAWN: JTB
 DESIGNED: LHB
 REVIEWED: PLB
 APPROVED: LHB
 SCALE: 1" = 600'

C1.0

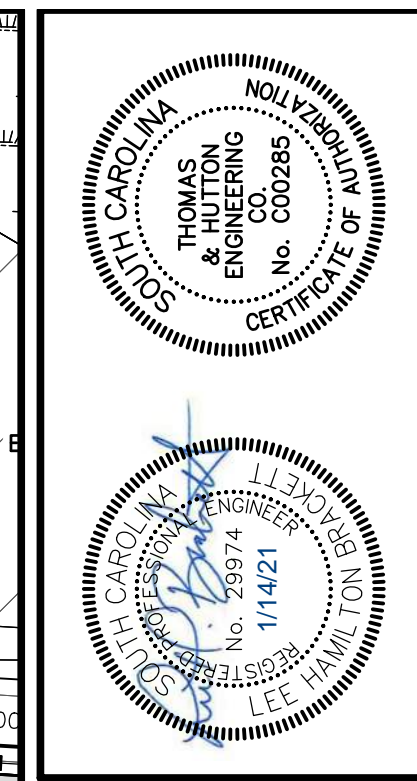




- NOTE:
1. CONTRACTOR RESPONSIBLE FOR SUBMITTING LAYDOWN AREA PLAN, PIPE FUSION PLAN, DRILLING PLAN, PIPE SUPPORT PLAN & TRAFFIC CONTROL PLAN TO THE ENGINEER. APPROVAL OF THESE PLANS BY ENGINEER IS REQUIRED PRIOR TO MOBILIZATION.
 2. ANY ACTIVITIES IN SCOTD R/W, INCLUDING, BUT NOT LIMITED TO, SITE ACCESS, JACK & BORE, & PIPE LAYDOWN ACTIVITIES MUST ADHERE TO SCOTD ACCESS & MANAGEMENT STANDARDS (ARMS) MANUAL.
 3. CONTRACTOR SOLELY RESPONSIBLE FOR MAINTAINING ACCESS TO ALL PROPERTY ACCESS POINTS ALONG HWY. 27 AND INTERSECTIONS FOR THE DURATION OF PIPELINE CONSTRUCTION.
 4. CONCRETE VALVE MARKERS TO BE PLACED AT ALL VALVES.



26926.0000 - WATER MAIN
 STATIONS: 77+28 - 92+00
 SCALE: HORIZ.: 1" = 50'
 VERT.: 1" = 5'



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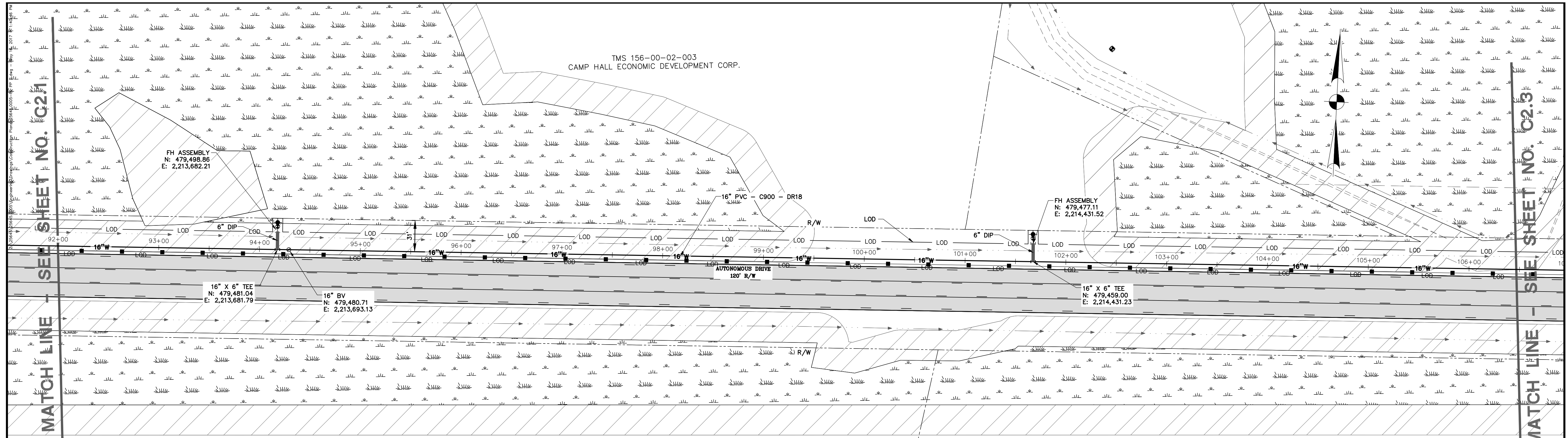
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BERKELEY-DORCHESTER REACH INTERCONNECT

DIV. I - WATER MAIN PLAN & PROFILE

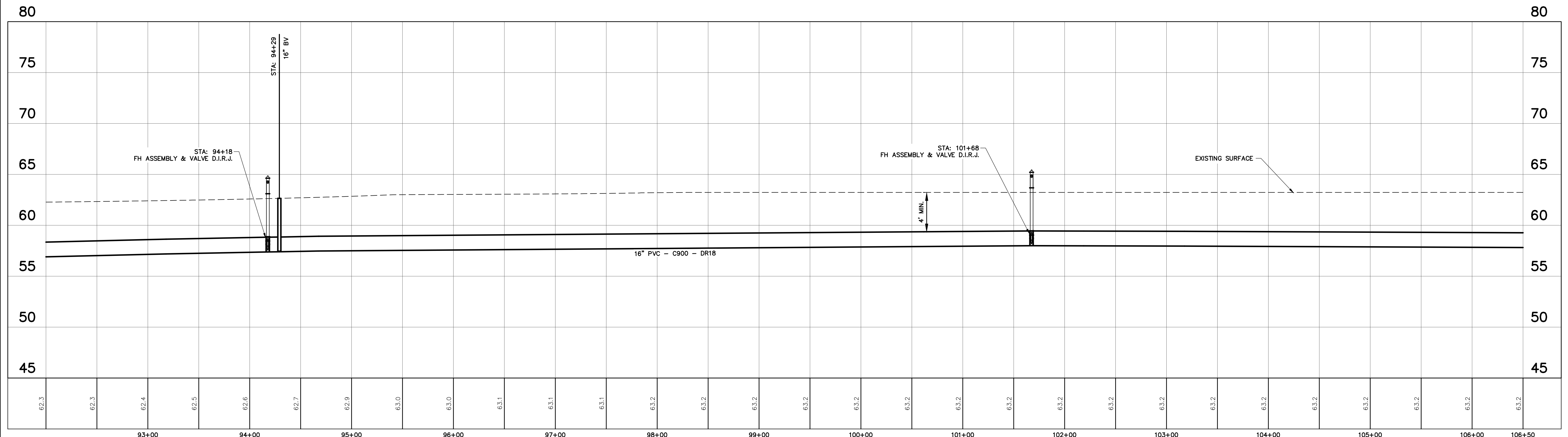
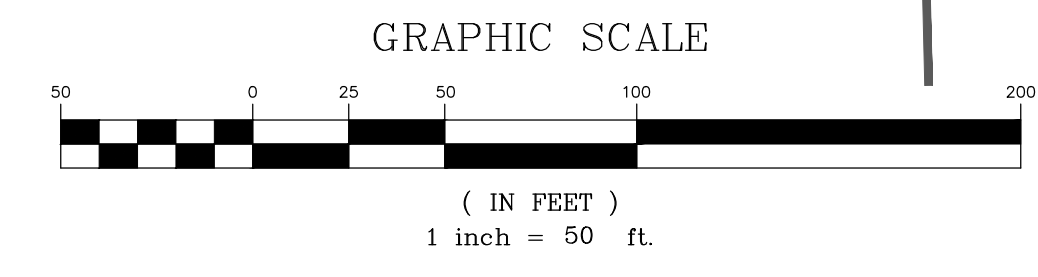
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APPROVED:	LHB
SCALE:	AS NOTED

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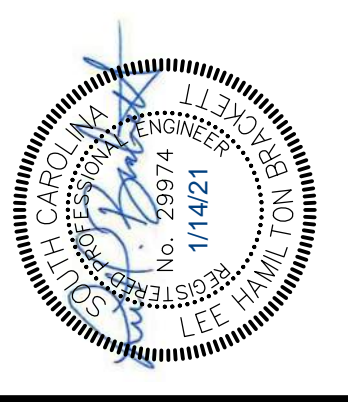
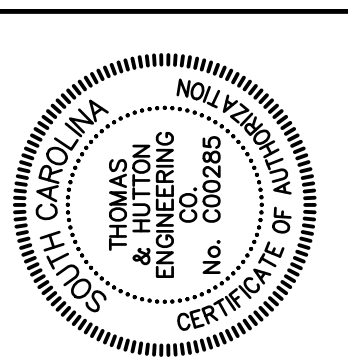


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TMS 156-00-02-003
CAMP HALL ECONOMIC DEVELOPMENT CORP.



26926.0000 - WATER MAIN
STATIONS: 92+00 - 106+50
SCALE: HORZ.: 1" = 50'
VERT.: 1" = 5'



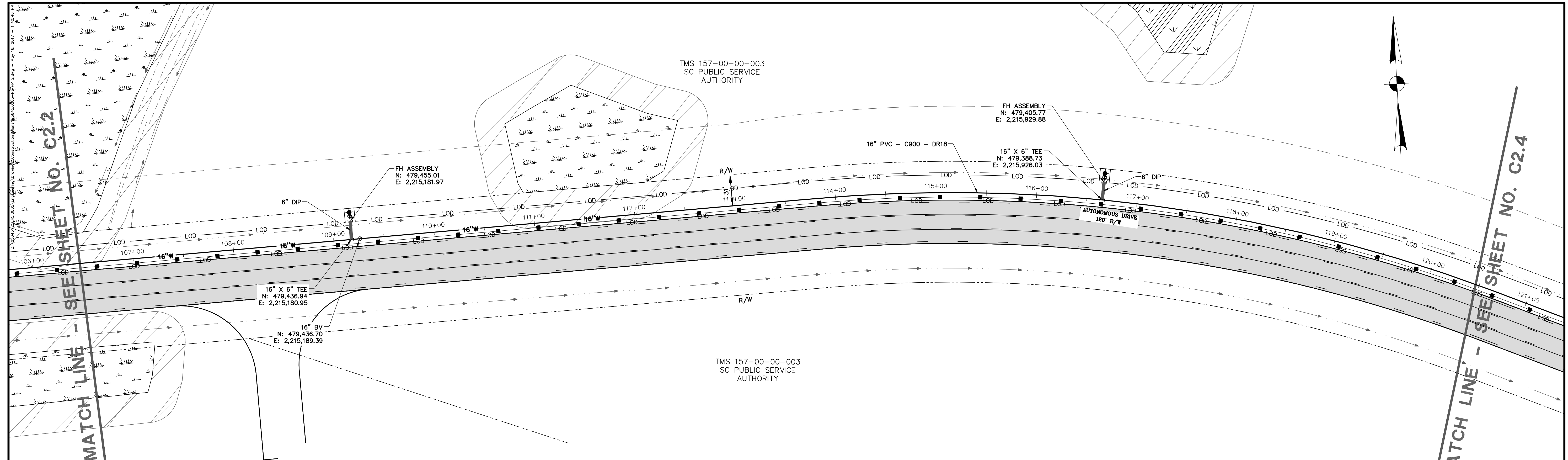
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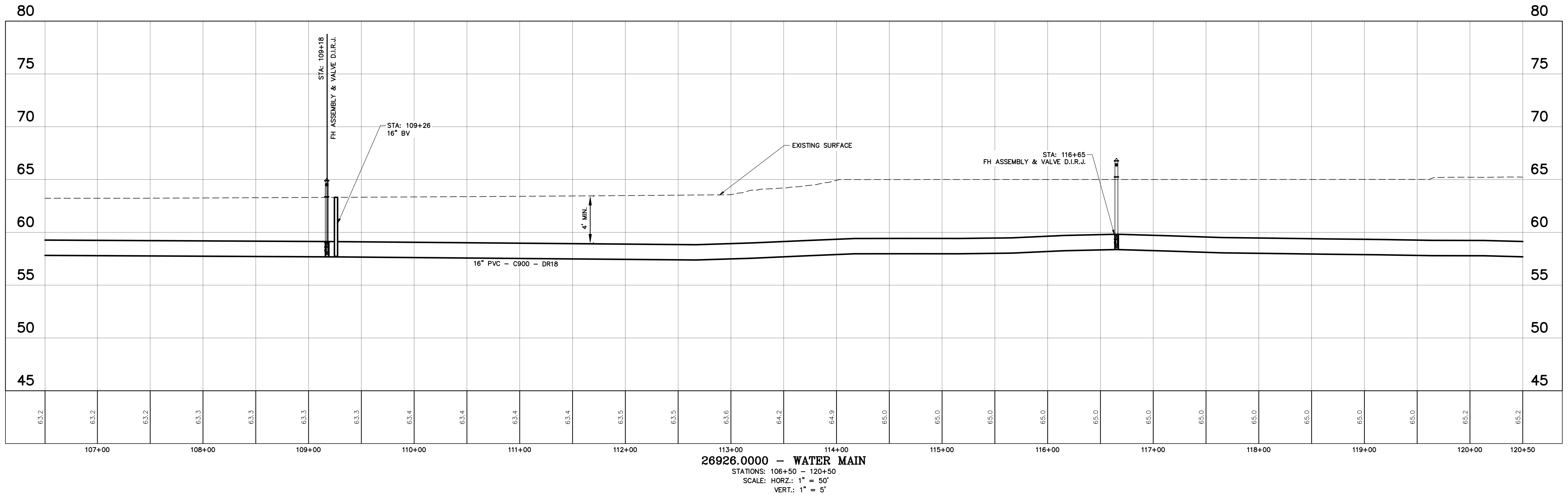
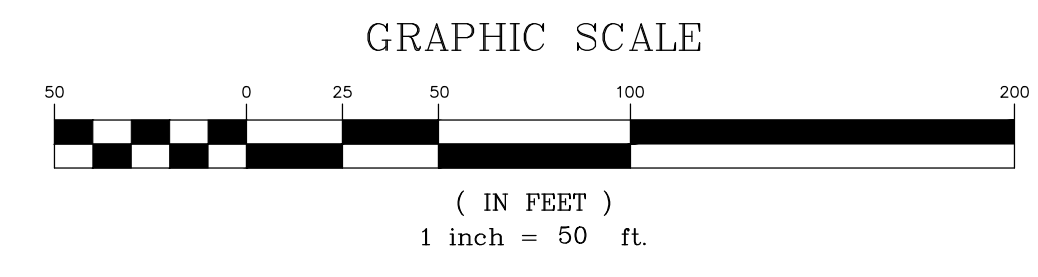
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BERKELEY COUNTY, SC
BERKELEY-DORCHESTER REACH INTERCONNECT
DIV. I - WATER MAIN PLAN & PROFILE

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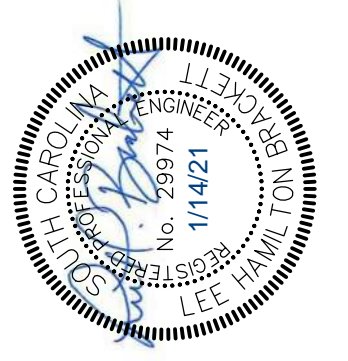
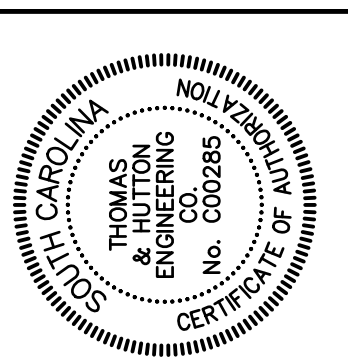
C2.2



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26926.0000 - WATER MAIN
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 VERT.: 1" = 5'



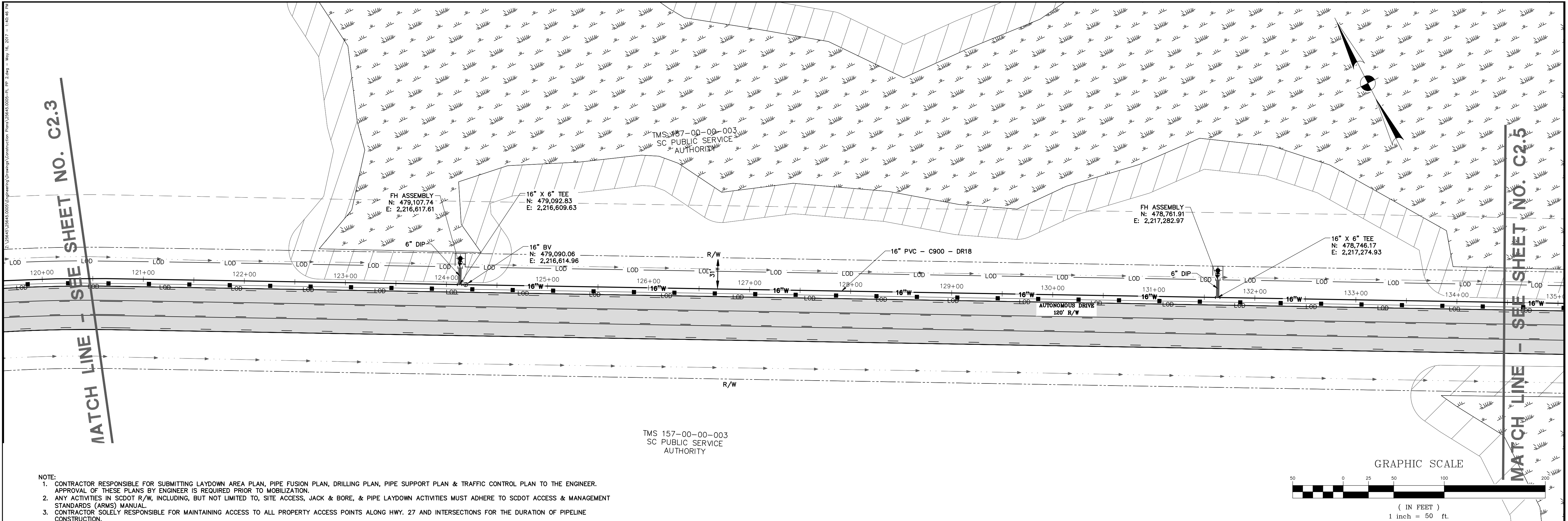
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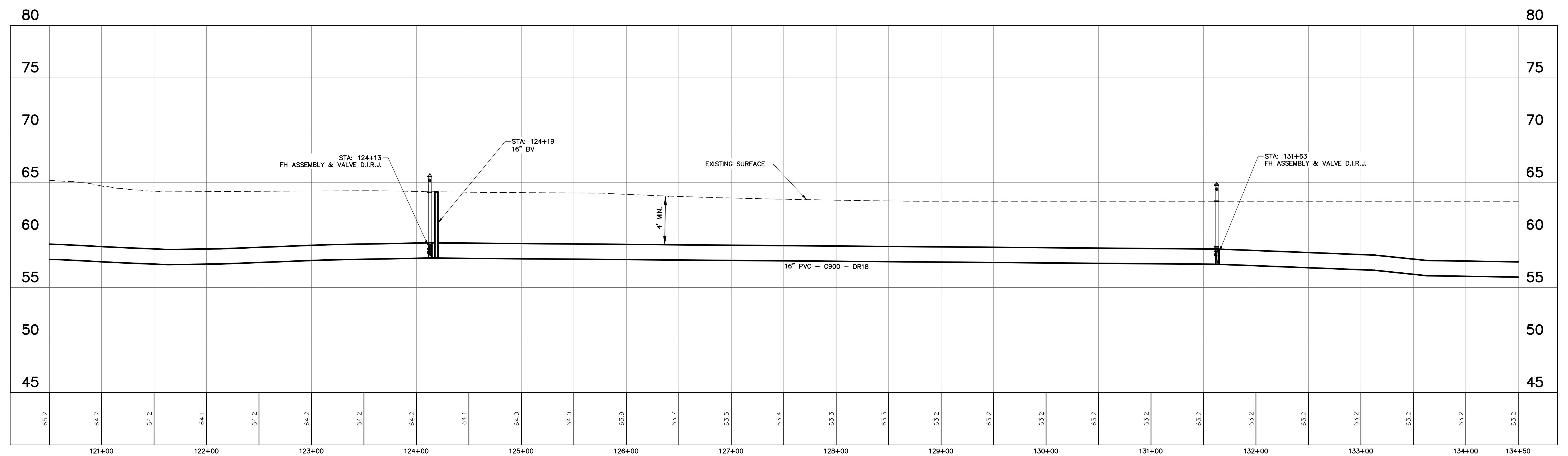
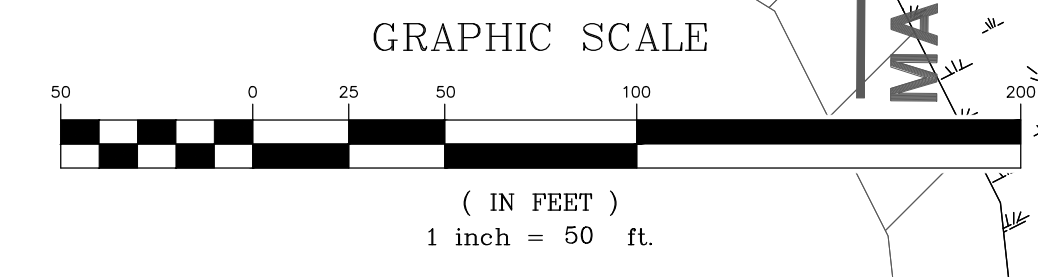
BERKELEY COUNTY
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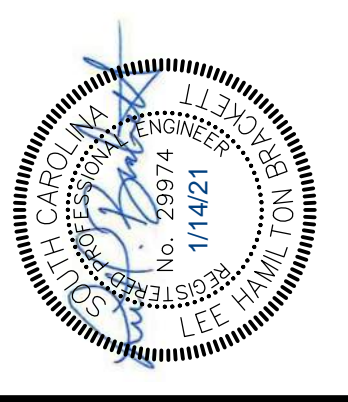
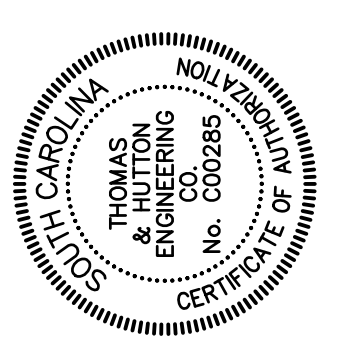
C2.3



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 VERT.: 1" = 5'



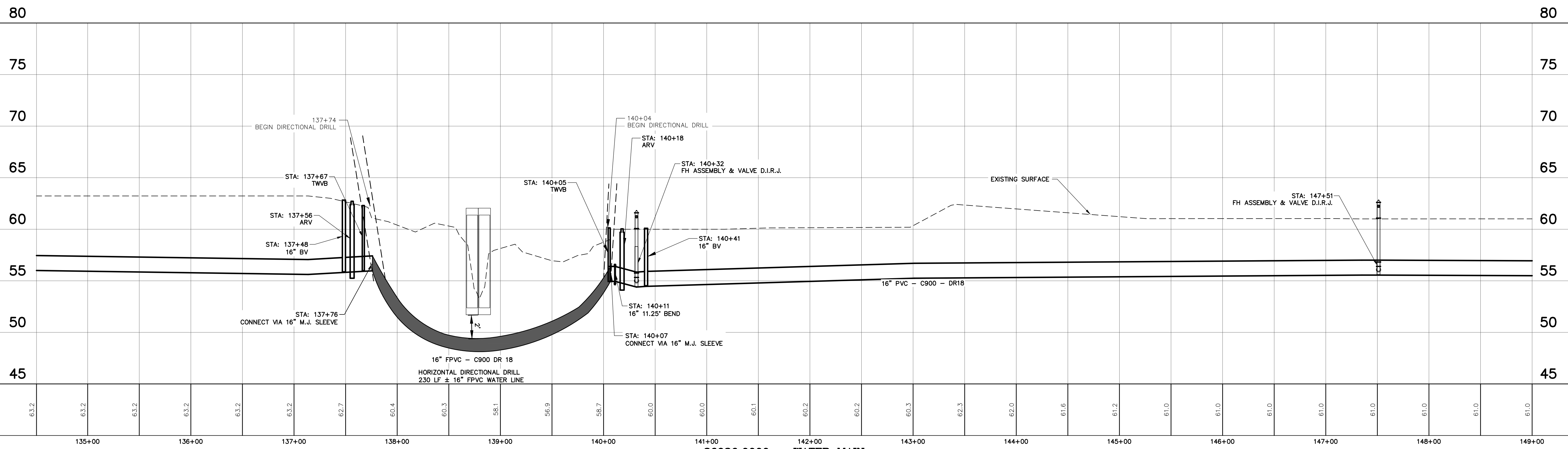
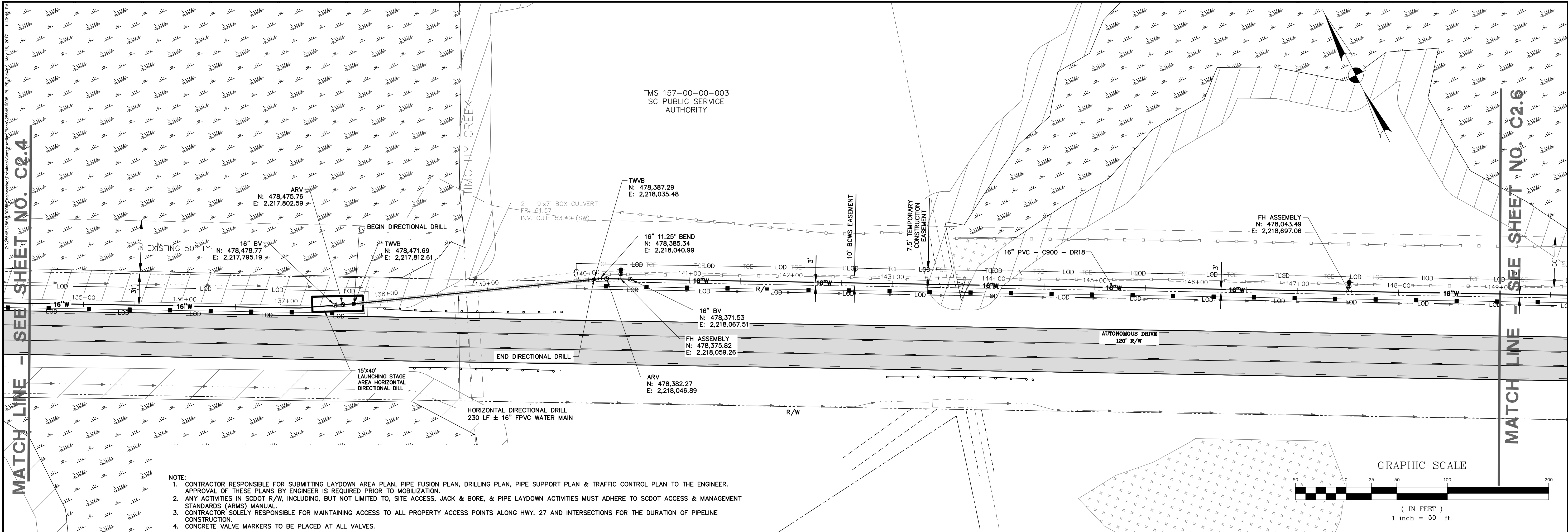
NO.	REVISIONS	BY	DATE

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BERKELEY COUNTY
 BERKELEY COUNTY, SC
BERKELEY-DORCHESTER REACH INTERCONNECT
DIV. I - WATER MAIN PLAN & PROFILE

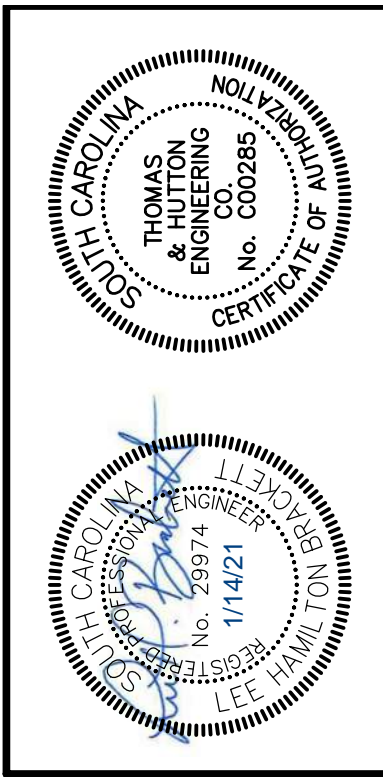
JOB NO:	J-26926.0000
DATE:	01/11/21
DRAWN:	JTB
DESIGNED:	LHB
REVIEWED:	PLB
APPROVED:	LHB
SCALE:	AS NOTED

C2.4



MATCH LINE - SEE SHEET NO. C2.4

MATCH LINE - SEE SHEET NO. C2.6



NO.	REVISIONS	BY	DATE

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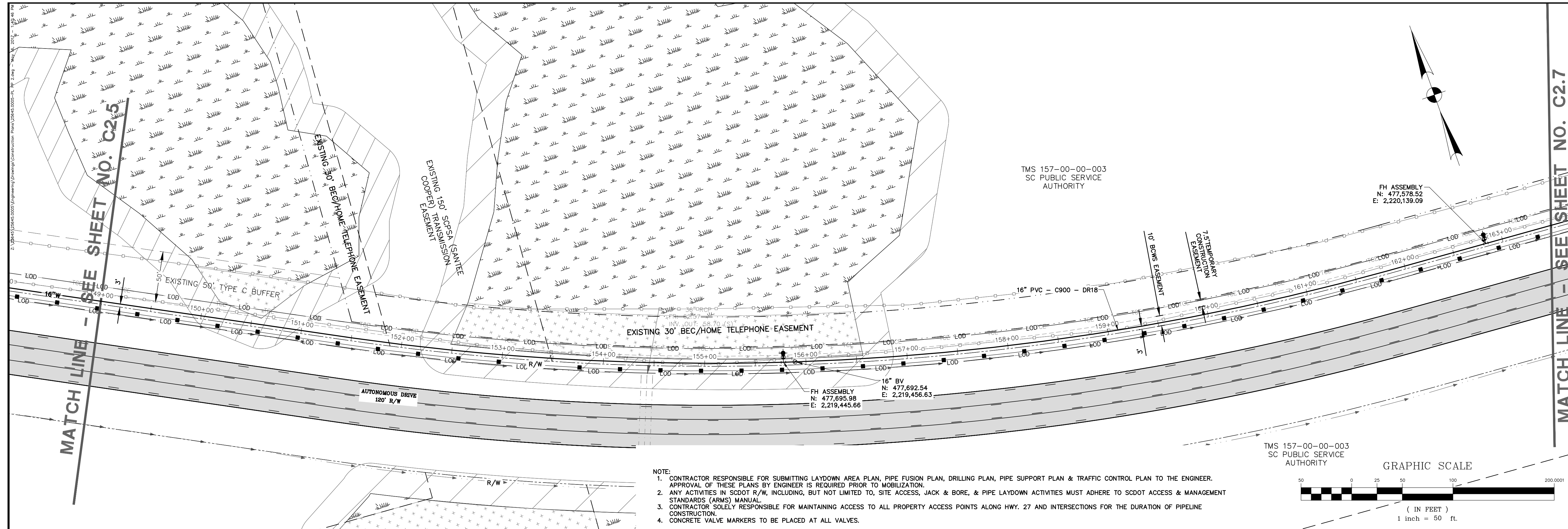
BERKELEY COUNTY
 BERKELEY COUNTY, SC

BERKELEY-DORCHESTER REACH INTERCONNECT

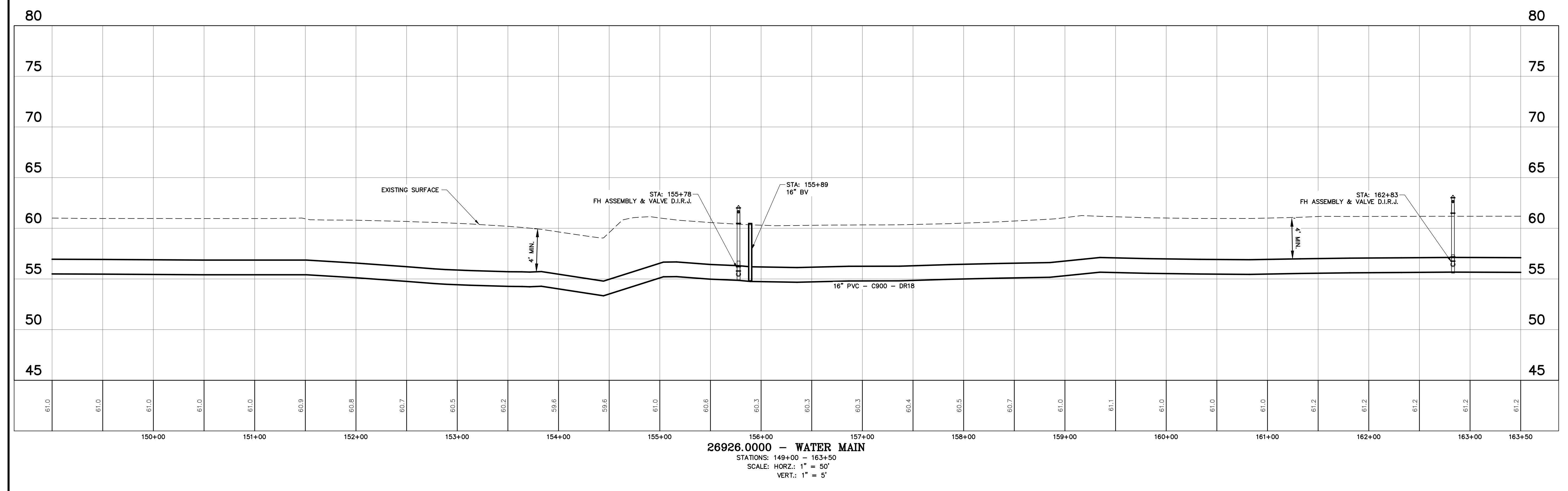
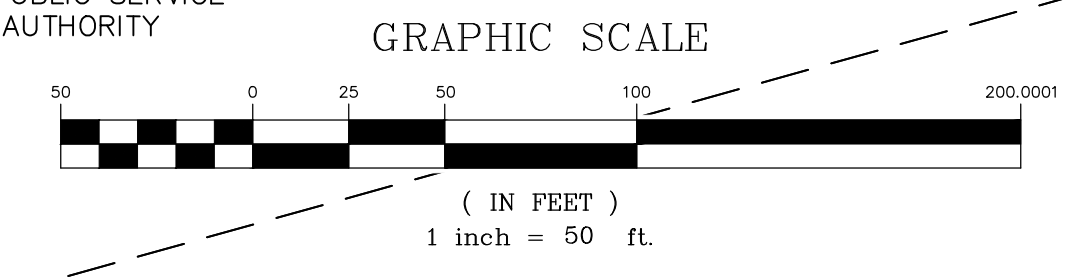
DIV. 1 - WATER MAIN PLAN & PROFILE

JOB NO.:	J-26926.0000
DATE:	01/11/21
DRAWN:	JTB
DESIGNED:	LHB
REVIEWED:	PLB
APPROVED:	LHB
SCALE:	AS NOTED

C2.5

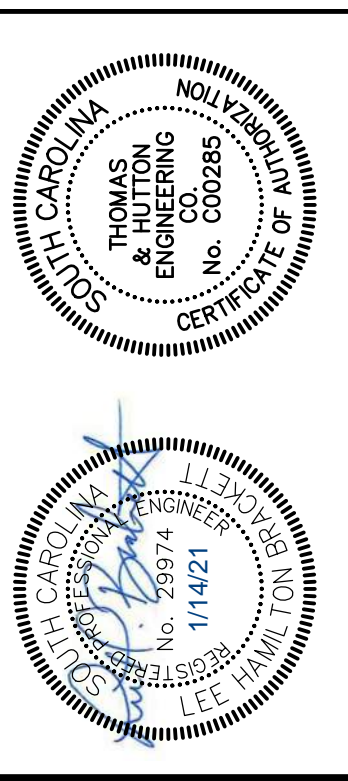


- NOTE:
1. CONTRACTOR RESPONSIBLE FOR SUBMITTING LAYDOWN AREA PLAN, PIPE FUSION PLAN, DRILLING PLAN, PIPE SUPPORT PLAN & TRAFFIC CONTROL PLAN TO THE ENGINEER. APPROVAL OF THESE PLANS BY ENGINEER IS REQUIRED PRIOR TO MOBILIZATION.
 2. ANY ACTIVITIES IN SCDOT R/W, INCLUDING, BUT NOT LIMITED TO, SITE ACCESS, JACK & BORE, & PIPE LAYDOWN ACTIVITIES MUST ADHERE TO SCDOT ACCESS & MANAGEMENT STANDARDS (ARMS) MANUAL.
 3. CONTRACTOR SOLELY RESPONSIBLE FOR MAINTAINING ACCESS TO ALL PROPERTY ACCESS POINTS ALONG HWY. 27 AND INTERSECTIONS FOR THE DURATION OF PIPELINE CONSTRUCTION.
 4. CONCRETE VALVE MARKERS TO BE PLACED AT ALL VALVES.



26926.0000 - WATER MAIN
 STATIONS: 149+00 - 163+50
 SCALE: HORZ.: 1" = 50'
 VERT.: 1" = 5'

MATCH LINE - SEE SHEET NO. C2.7



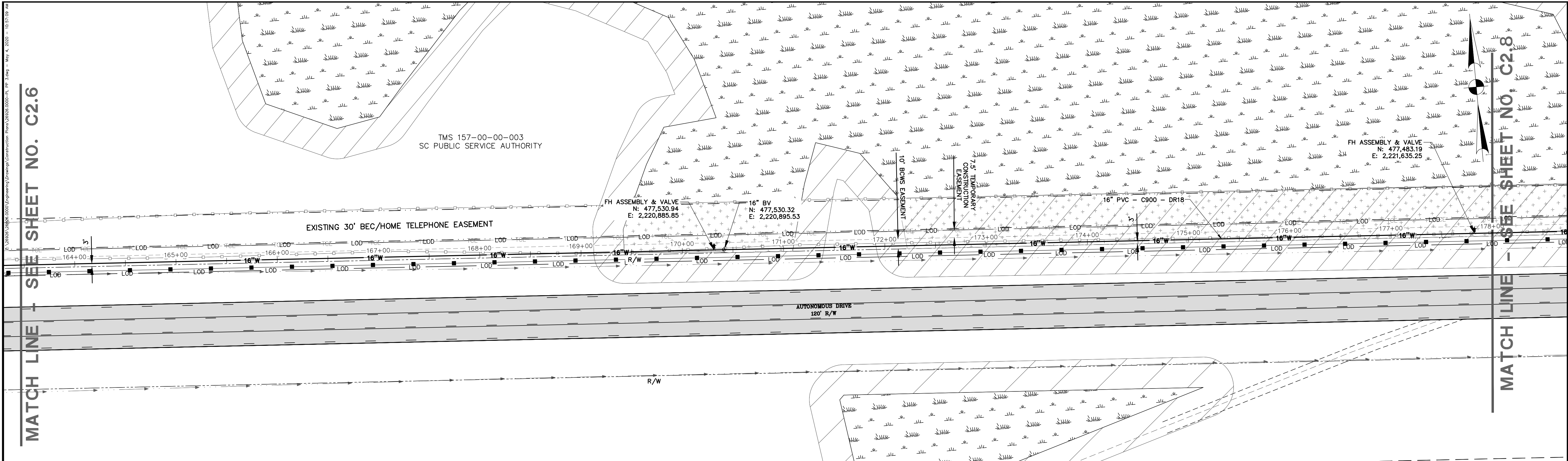
NO.	REVISIONS	BY	DATE

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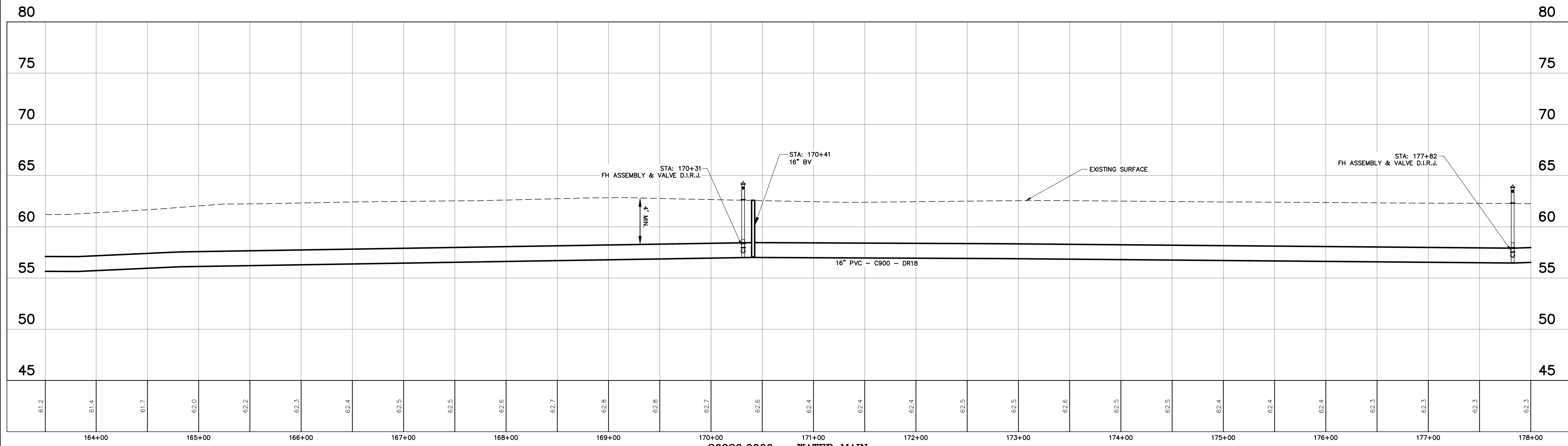
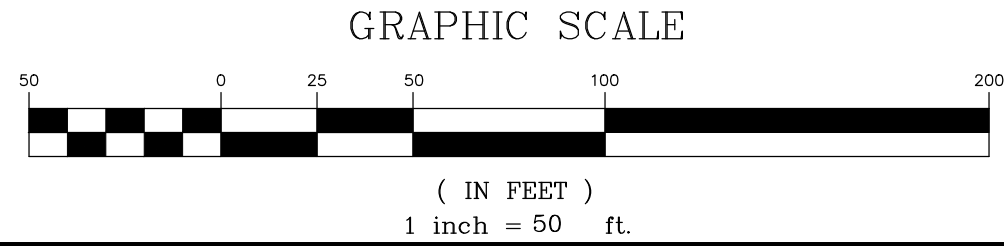
BERKELEY COUNTY
 BERKELEY COUNTY, SC
 BERKELEY-DORCHESTER REACH INTERCONNECT
 DIV. 1 - WATER MAIN PLAN & PROFILE

JOB NO.:	J-26926.0000
DATE:	01/11/21
DRAWN:	JTB
DESIGNED:	LHB
REVIEWED:	PLB
APPROVED:	LHB
SCALE:	AS NOTED

C2.6



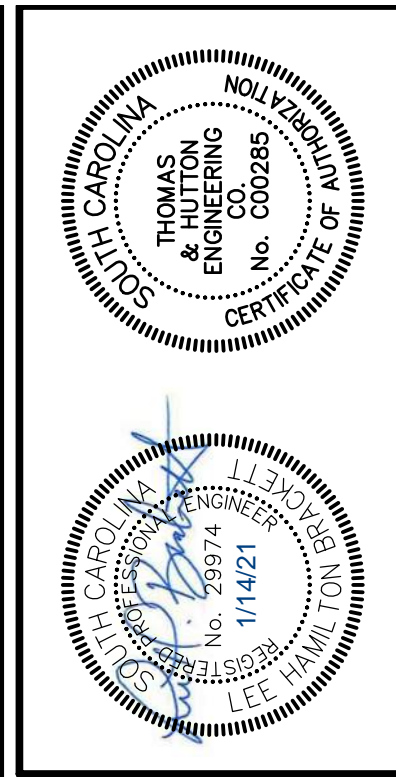
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1. CONTRACTOR RESPONSIBLE FOR SUBMITTING LAYDOWN AREA PLAN, PIPE FUSION PLAN, DRILLING PLAN, PIPE SUPPORT PLAN & TRAFFIC CONTROL PLAN TO THE ENGINEER. APPROVAL OF THESE PLANS BY ENGINEER IS REQUIRED PRIOR TO MOBILIZATION.
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26926.0000 - WATER MAIN
 STATIONS: 163+50 - 178+00
 SCALE: HORZ.: 1" = 50'
 VERT.: 1" = 5'

MATCH LINE - SEE SHEET NO. C2.6

MATCH LINE - SEE SHEET NO. C2.8



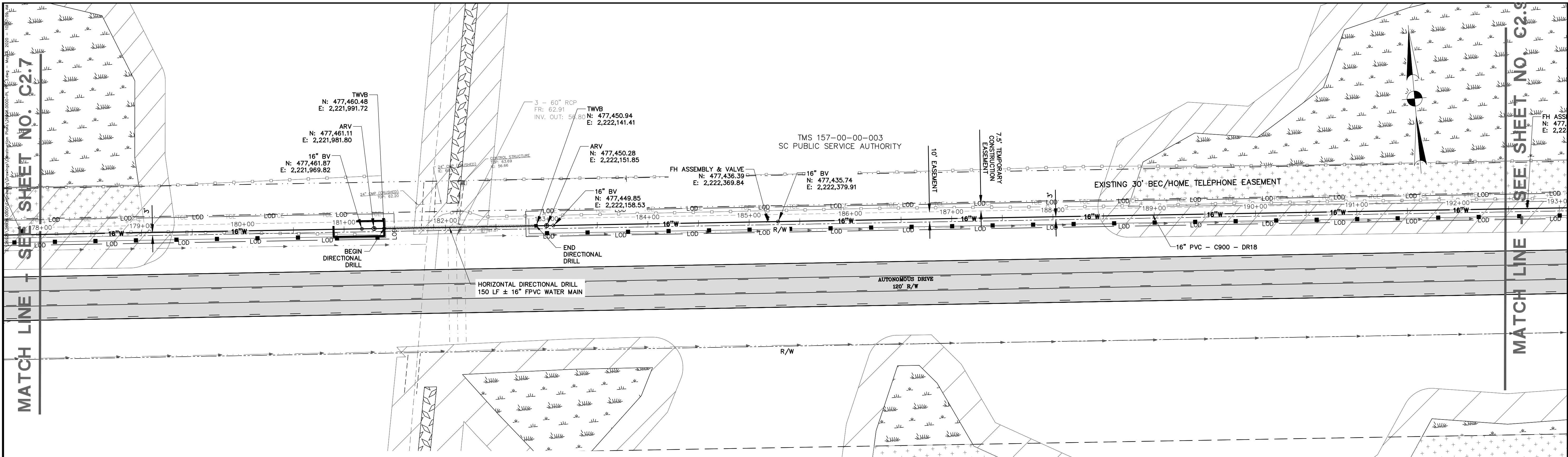
NO.	REVISIONS	BY	DATE

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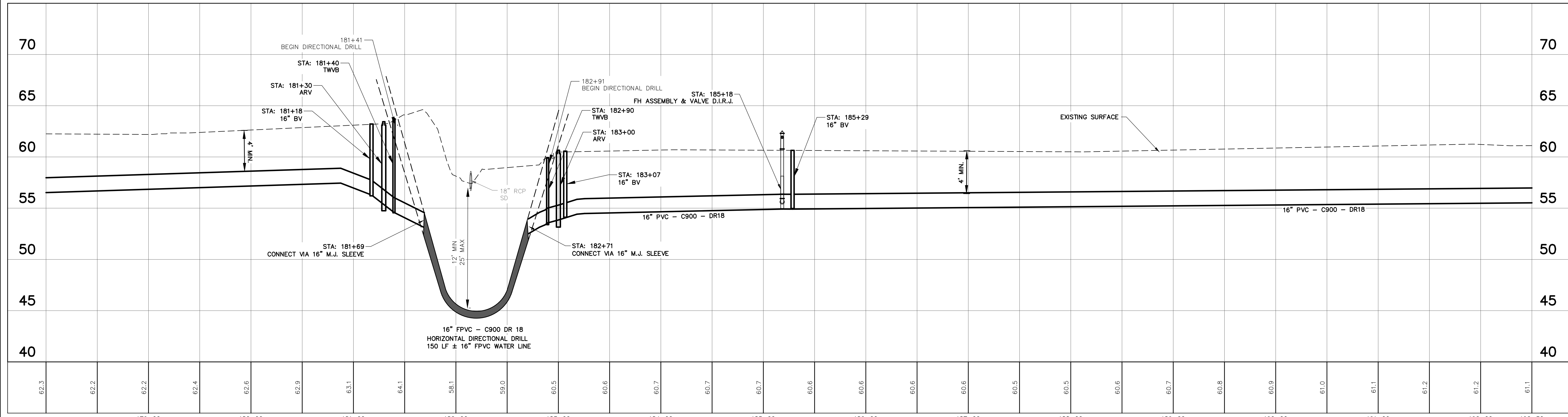
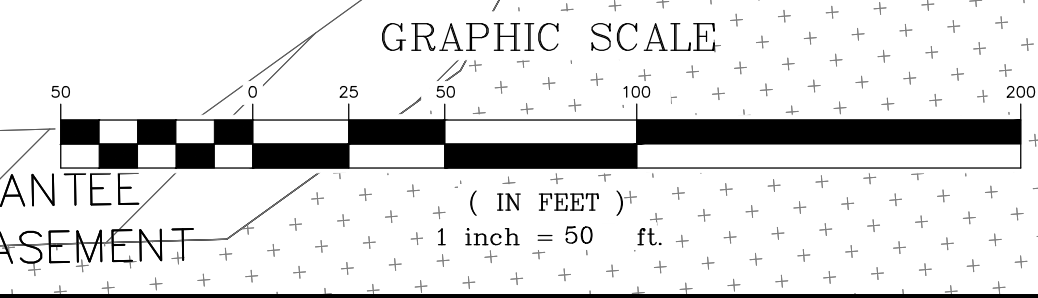
BERKELEY COUNTY
 BERKELEY COUNTY, SC
 BERKELEY-DORCHESTER REACH INTERCONNECT
 DIV. I - WATER MAIN PLAN & PROFILE

JOB NO: J-26926.0000
 DATE: 01/11/21
 DRAWN: JTB
 DESIGNED: LHB
 REVIEWED: PLB
 APPROVED: LHB
 SCALE: AS NOTED

C2.7



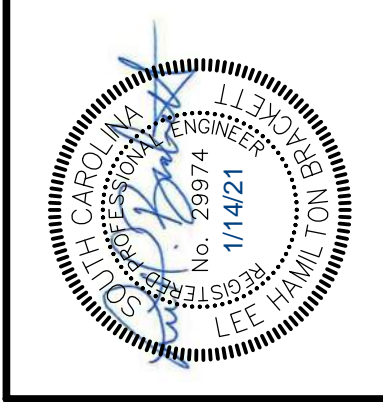
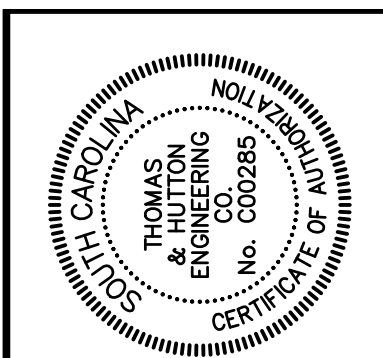
- NOTE:
1. CONTRACTOR RESPONSIBLE FOR SUBMITTING LAYDOWN AREA PLAN, PIPE FUSION PLAN, DRILLING PLAN, PIPE SUPPORT PLAN & TRAFFIC CONTROL PLAN TO THE ENGINEER. APPROVAL OF THESE PLANS BY ENGINEER IS REQUIRED PRIOR TO MOBILIZATION.
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 4. CONCRETE VALVE MARKERS TO BE PLACED AT ALL VALVES.



26926.0000 - WATER MAIN
 STATIONS: 178+00 - 192+50
 SCALE: HORZ.: 1" = 50'
 VERT.: 1" = 5'

SEE SHEET NO. C2.7

MATCH LINE SEE SHEET NO. C2.8



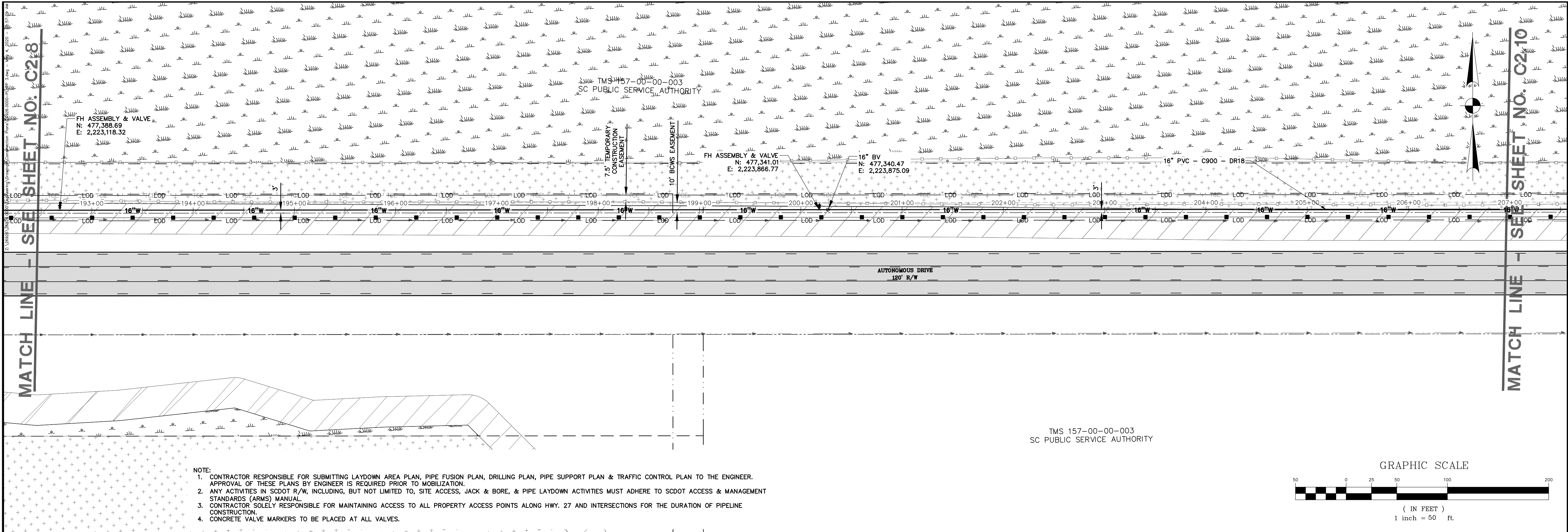
NO.	REVISIONS	BY	DATE

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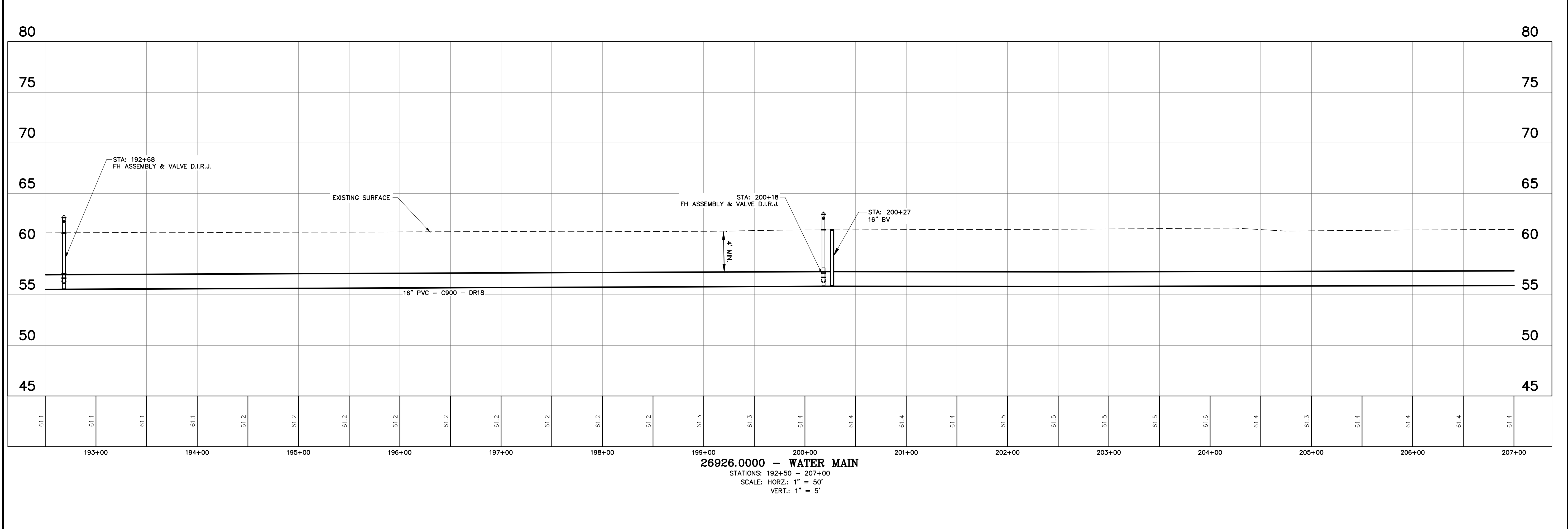
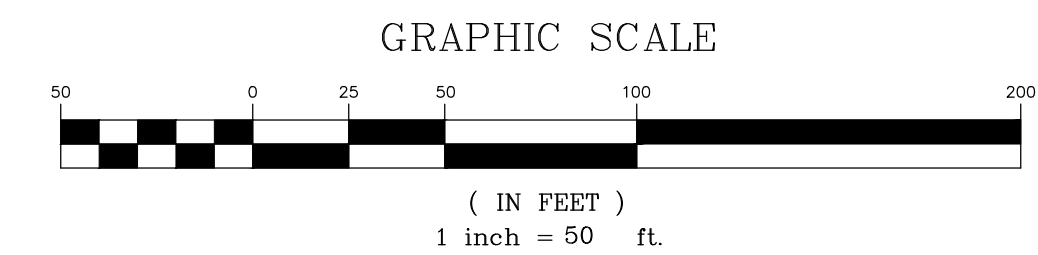
BERKELEY COUNTY
 BERKELEY COUNTY, SC
 BERKELEY-DORCHESTER REACH INTERCONNECT
 DIV. I - WATER MAIN PLAN & PROFILE

JOB NO: J-26926.0000
 DATE: 01/11/21
 DRAWN: JTB
 DESIGNED: LHB
 REVIEWED: PLB
 APPROVED: LHB
 SCALE: AS NOTED

C2.8



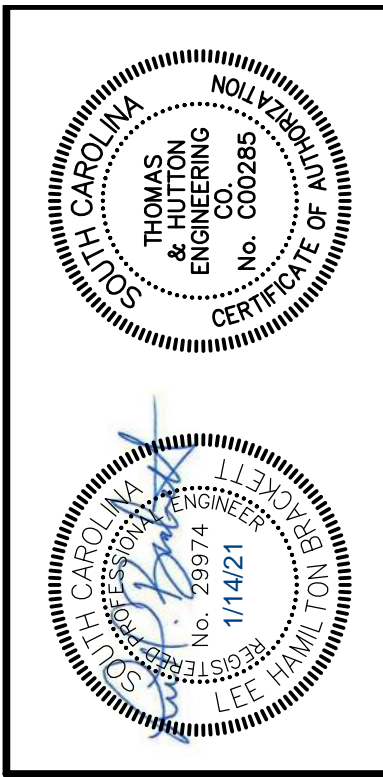
- NOTE:
1. CONTRACTOR RESPONSIBLE FOR SUBMITTING LAYDOWN AREA PLAN, PIPE FUSION PLAN, DRILLING PLAN, PIPE SUPPORT PLAN & TRAFFIC CONTROL PLAN TO THE ENGINEER. APPROVAL OF THESE PLANS BY ENGINEER IS REQUIRED PRIOR TO MOBILIZATION.
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 4. CONCRETE VALVE MARKERS TO BE PLACED AT ALL VALVES.



26926.0000 - WATER MAIN
 STATIONS: 192+50 - 207+00
 SCALE: HORZ.: 1" = 50'
 VERT.: 1" = 5'

MATCH LINE - SEE SHEET NO. C28

MATCH LINE - SEE SHEET NO. C210



NO.	REVISIONS	BY	DATE

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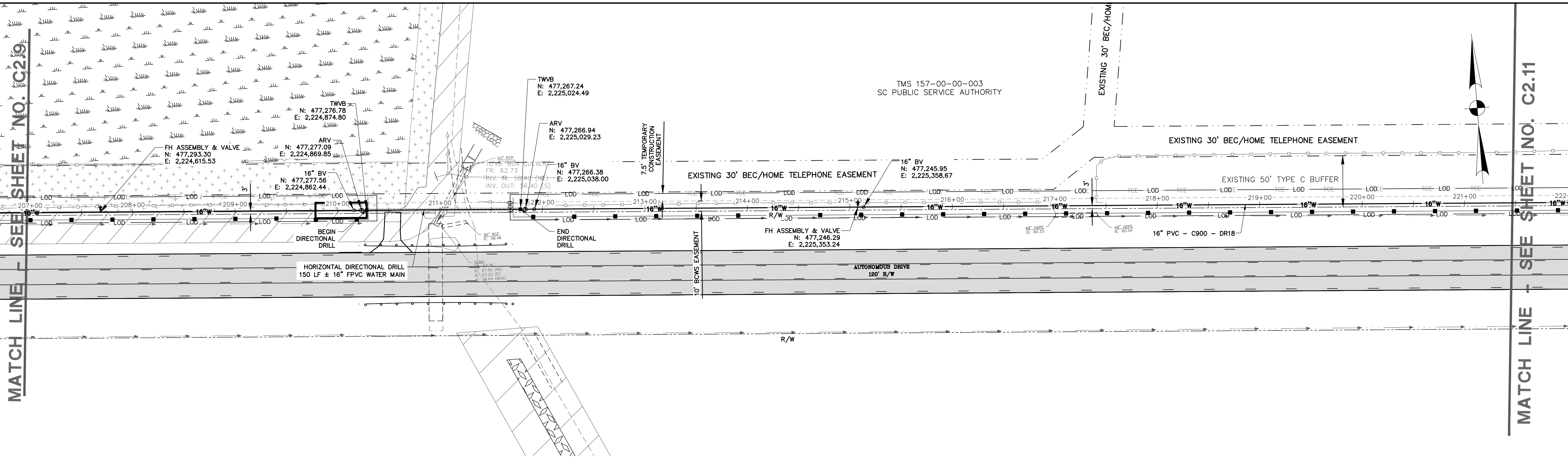
BERKELEY COUNTY
 BERKELEY COUNTY, SC
BERKELEY-DORCHESTER REACH INTERCONNECT
DIV. I - WATER PLAN & PROFILE

JOB NO:	J-26926.0000
DATE:	01/11/21
DRAWN:	JTB
DESIGNED:	LHB
REVIEWED:	PLB
APPROVED:	LHB
SCALE:	AS NOTED

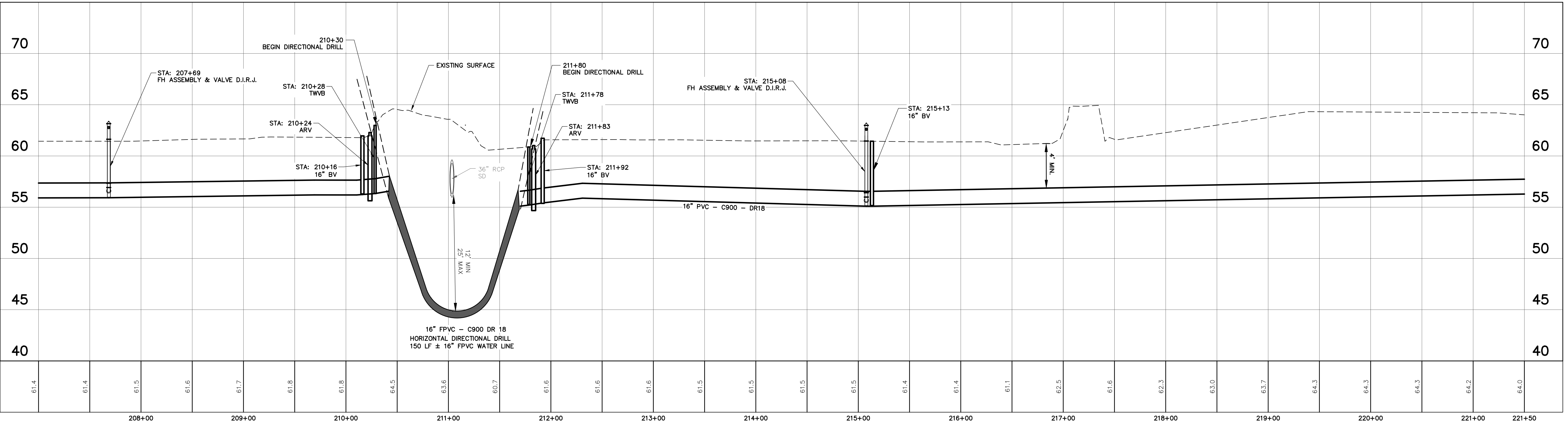
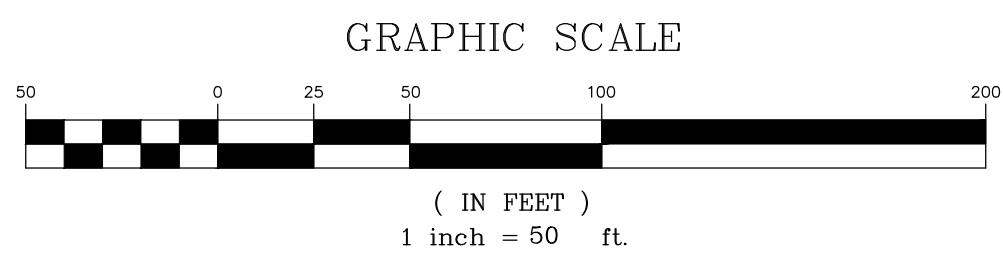
C2.9

MATCH LINE - SEE SHEET NO. C2.9

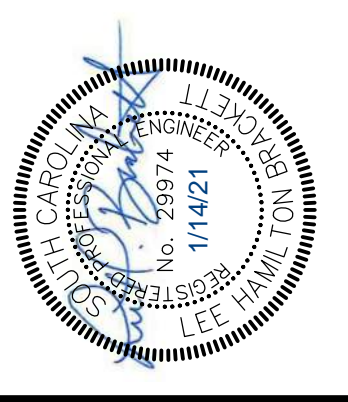
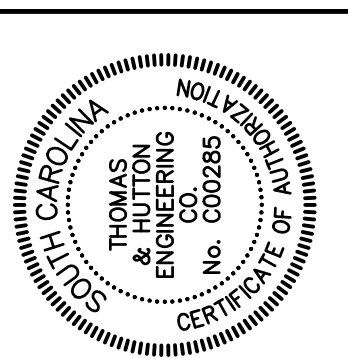
MATCH LINE - SEE SHEET NO. C2.11



- NOTE:**
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 - CONCRETE VALVE MARKERS TO BE PLACED AT ALL VALVES.
 - COORDINATE DUCTILE IRON CL 250 INSTALLATION UNDER DRIVEWAYS OF FUTURE DEVELOPMENTS.



26926.0000 - WATER MAIN
 STATIONS: 207+00 - 221+50
 SCALE: HORIZ.: 1" = 50'
 VERT.: 1" = 5'



NO.	REVISIONS	BY	DATE

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BERKELEY COUNTY
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 BERKELEY-DORCHESTER REACH INTERCONNECT
 DIV. I - WATER MAIN PLAN & PROFILE

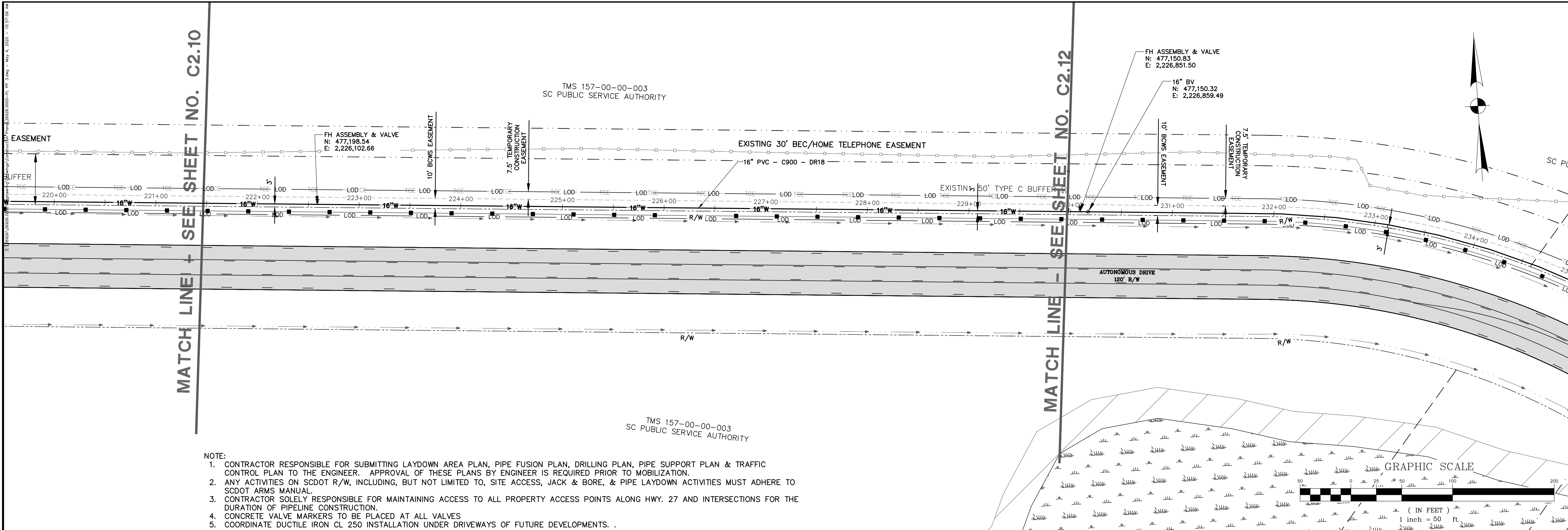
JOB NO.:	J-26926.0000
DATE:	01/11/21
DRAWN:	JTB
DESIGNED:	LHB
REVIEWED:	PLB
APPROVED:	LHB
SCALE:	AS NOTED

C2.10

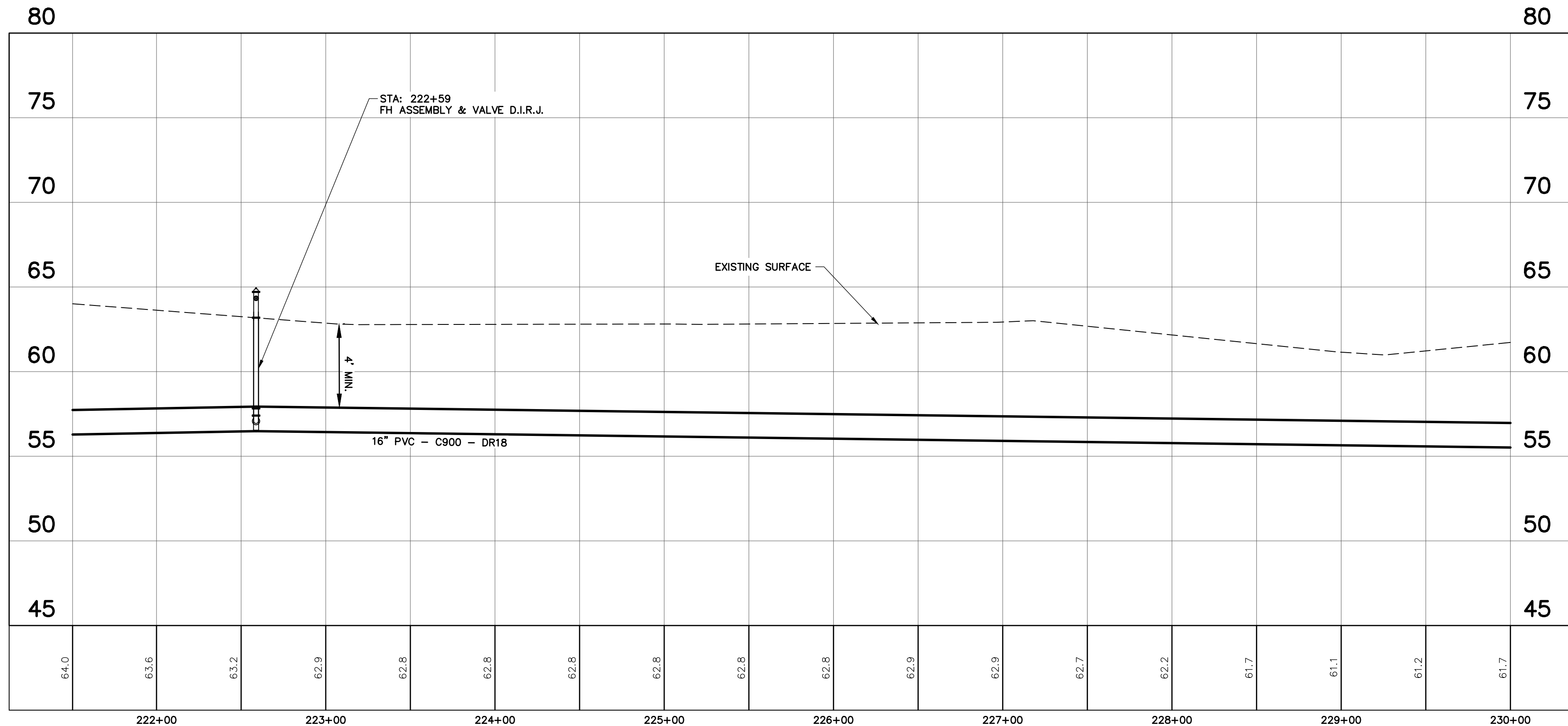
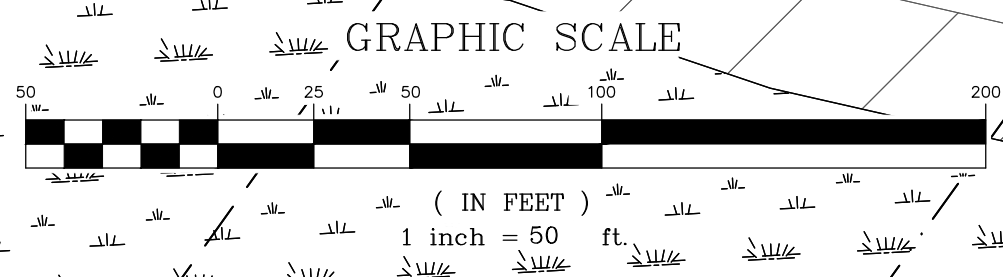
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MATCH LINE - SEE SHEET NO. C2.10

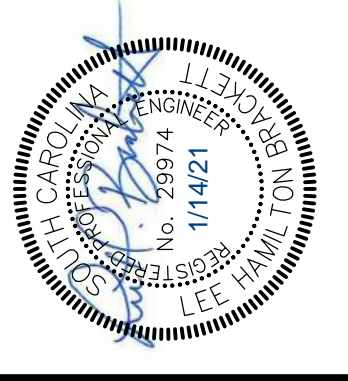
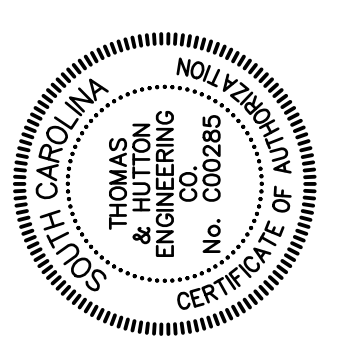
MATCH LINE - SEE SHEET NO. C2.12



- NOTE:**
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26926.0000 - WATER MAIN
 STATIONS: 221+50 - 230+00
 SCALE: HORZ: 1" = 50'
 VERT: 1" = 5'



NO.	REVISIONS	BY	DATE

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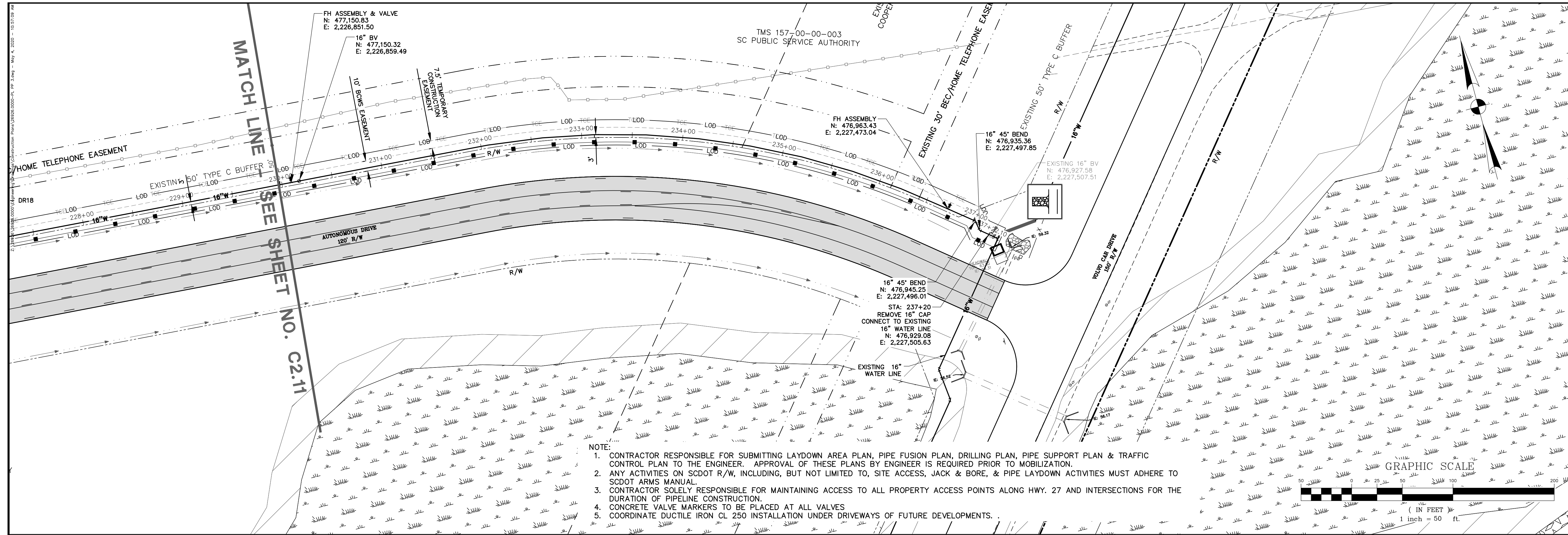
BERKELEY COUNTY
 BERKELEY COUNTY, SC

BERKELEY-DORCHESTER REACH INTERCONNECT

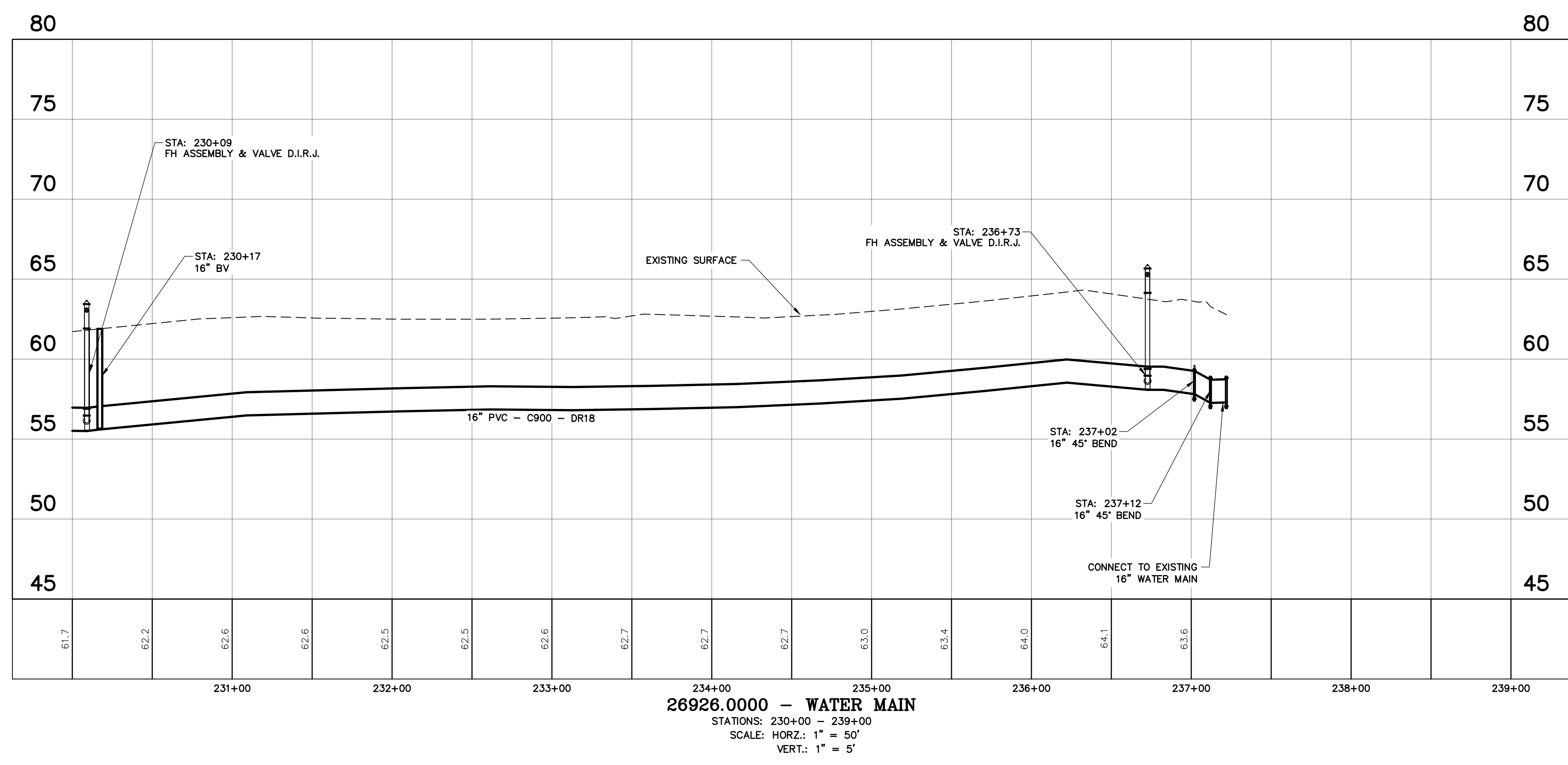
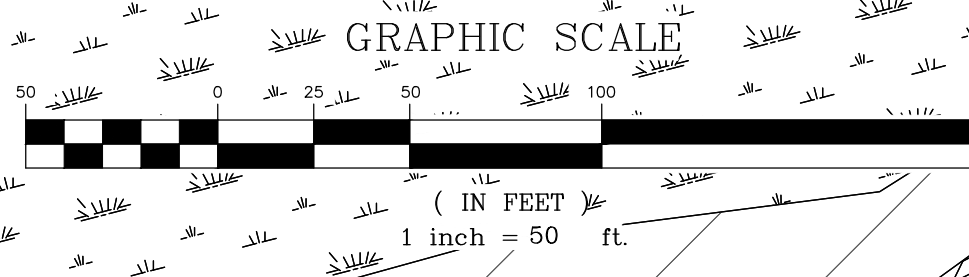
DIV. I - WATER MAIN PLAN & PROFILE

JOB NO:	J-26926.0000
DATE:	01/11/21
DRAWN:	JTB
DESIGNED:	LHB
REVIEWED:	PLB
APPROVED:	LHB
SCALE:	AS NOTED

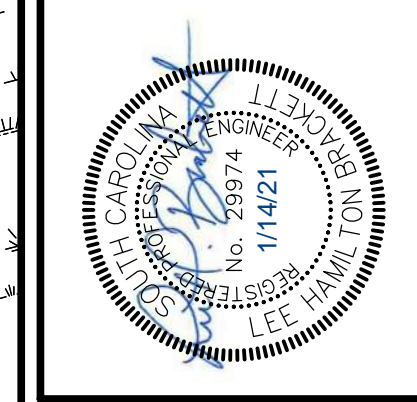
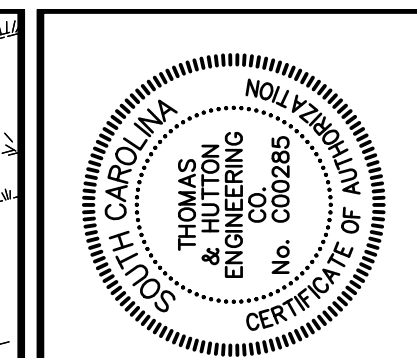
C2.11



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26926.0000 - WATER MAIN
 STATIONS: 230+00 - 239+00
 SCALE: HORZ.: 1" = 50'
 VERT.: 1" = 5'



NO.	REVISIONS	BY	DATE

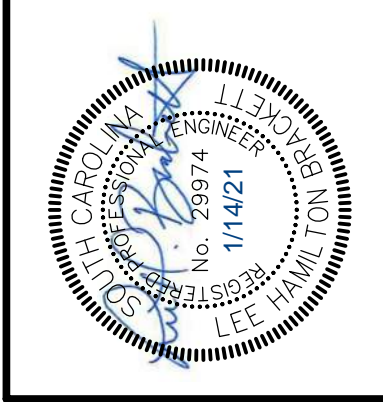
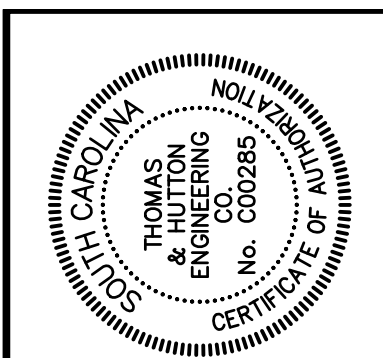
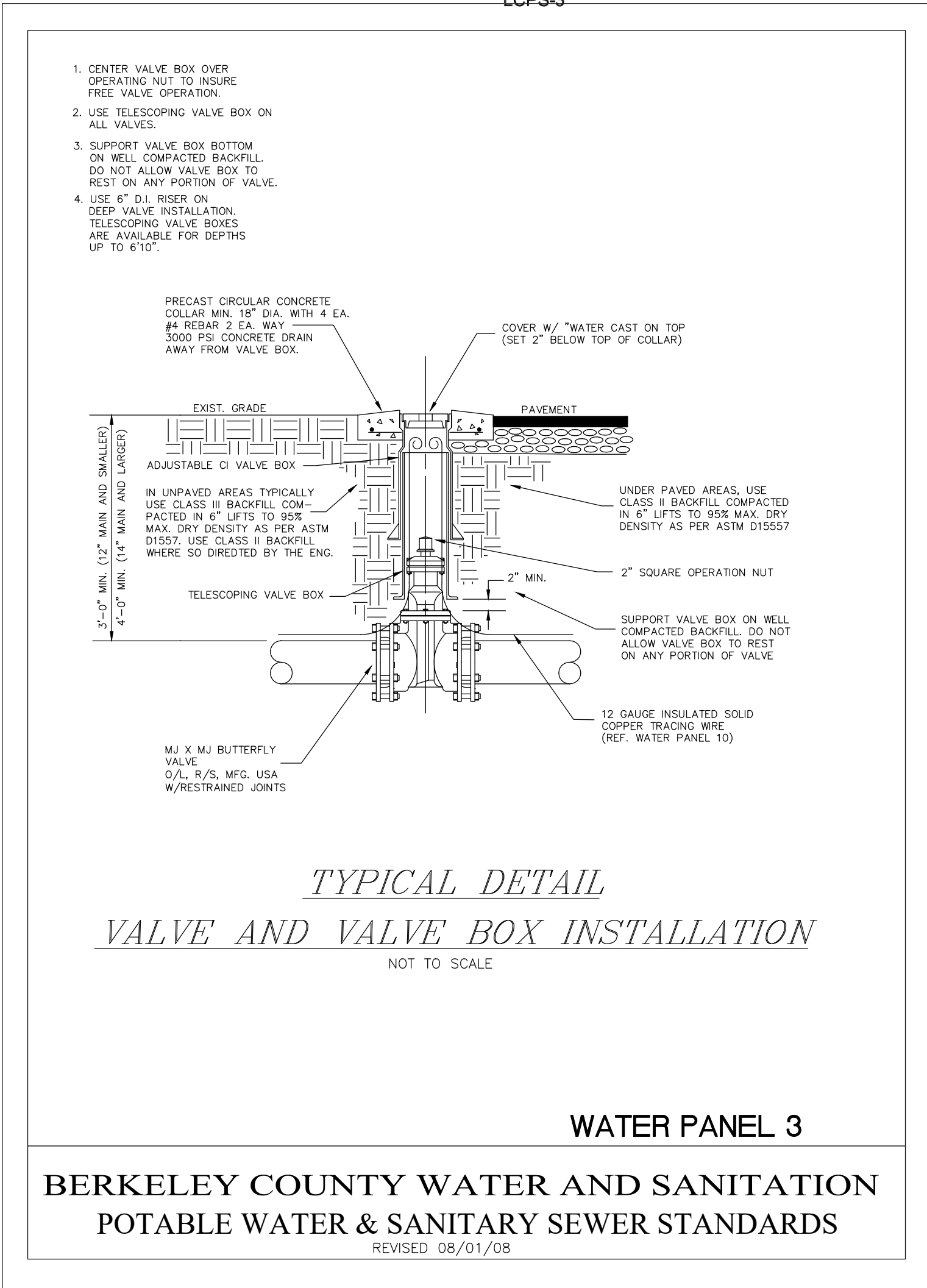
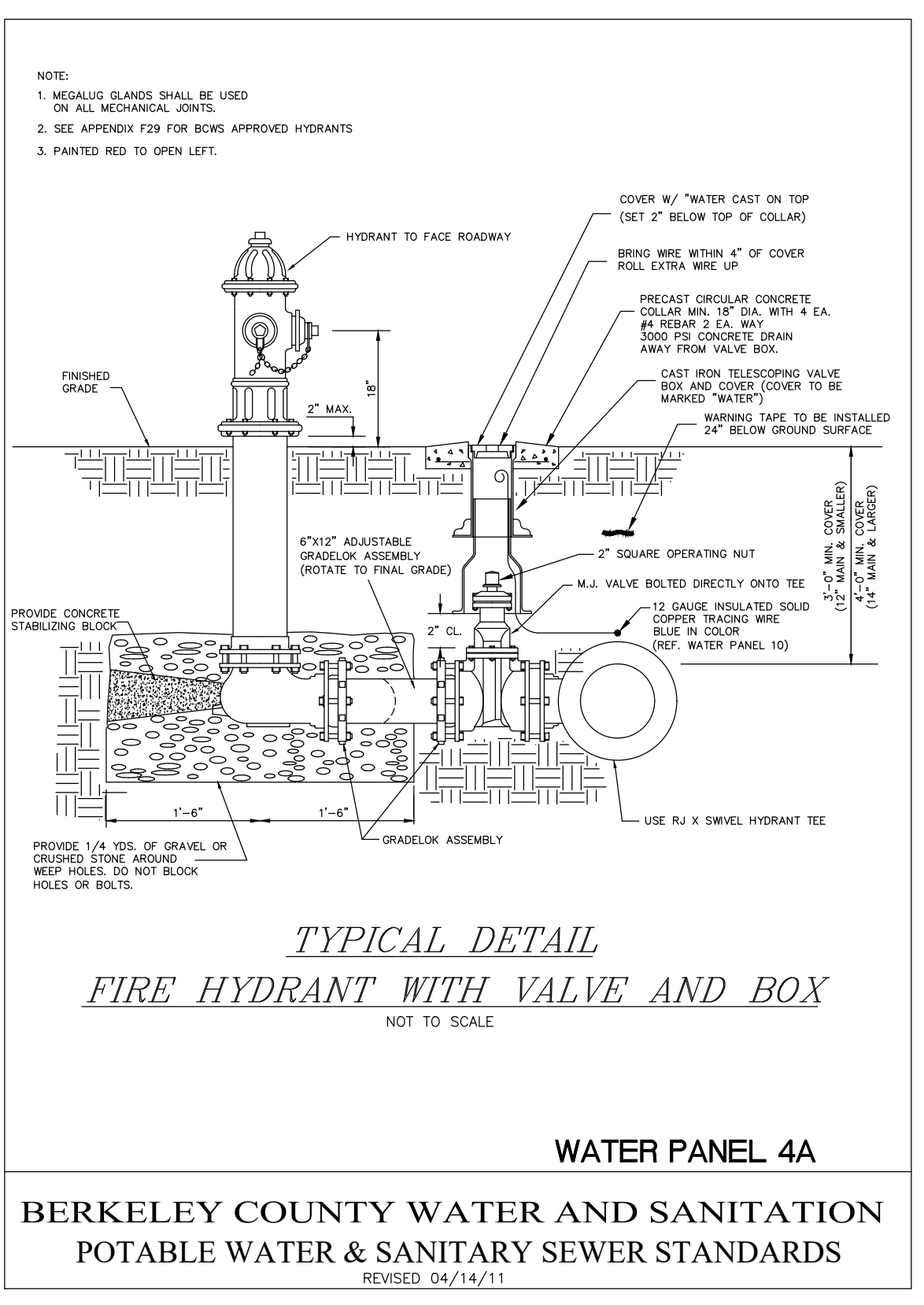
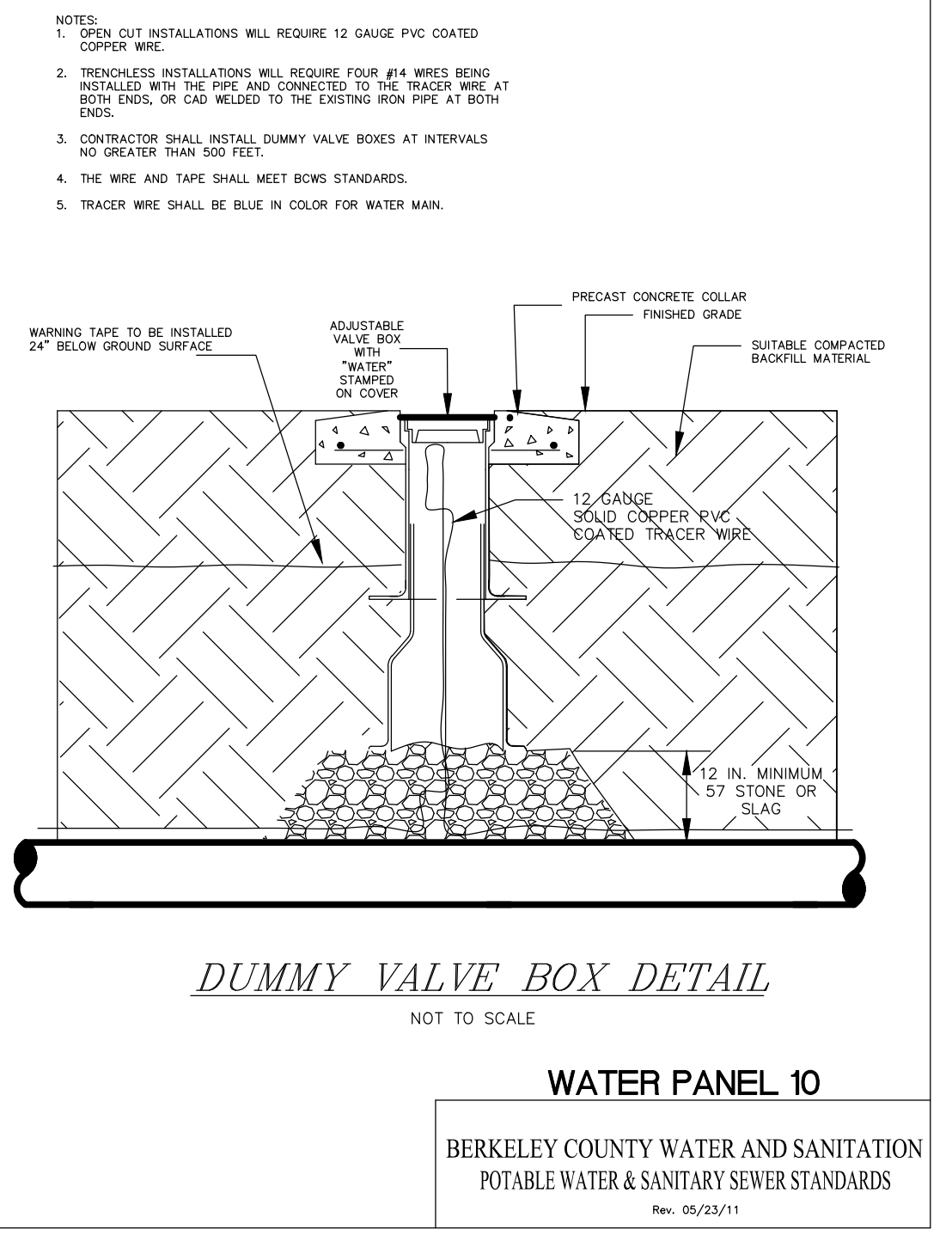
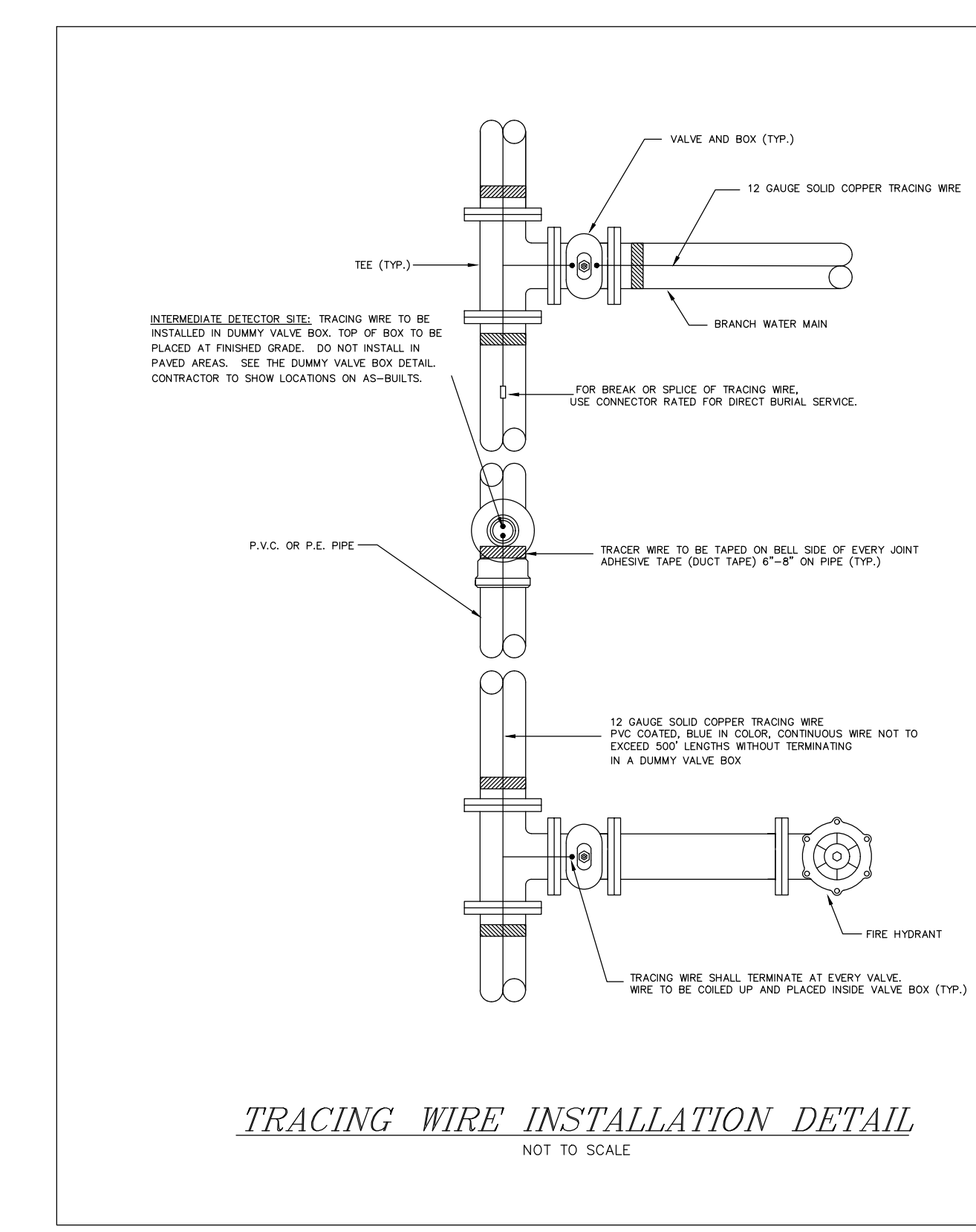
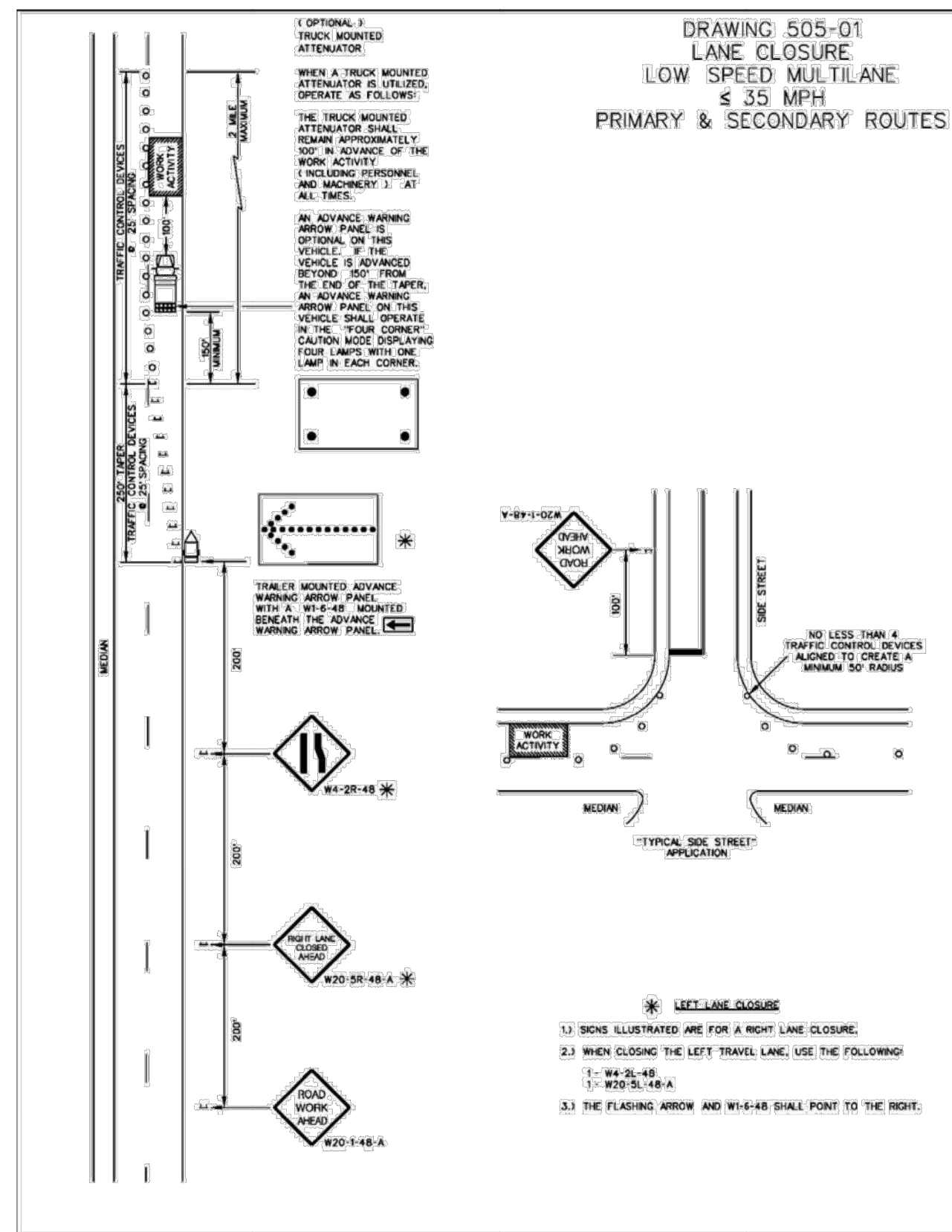
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BERKELEY COUNTY
 BERKELEY COUNTY, SC
BERKELEY-DORCHESTER REACH INTERCONNECT
DIV. 1 - WATER PLAN & PROFILE

JOB NO:	J-26926.0000
DATE:	01/11/21
DRAWN:	JTB
DESIGNED:	LHB
REVIEWED:	PLB
APPROVED:	LHB
SCALE:	AS NOTED

C2.12

Z:\PROJECTS\2020\Engineering\Drawings\Water\2020\0505-WP-D1.dwg - Jun 28, 2020 - 9:38:02 AM



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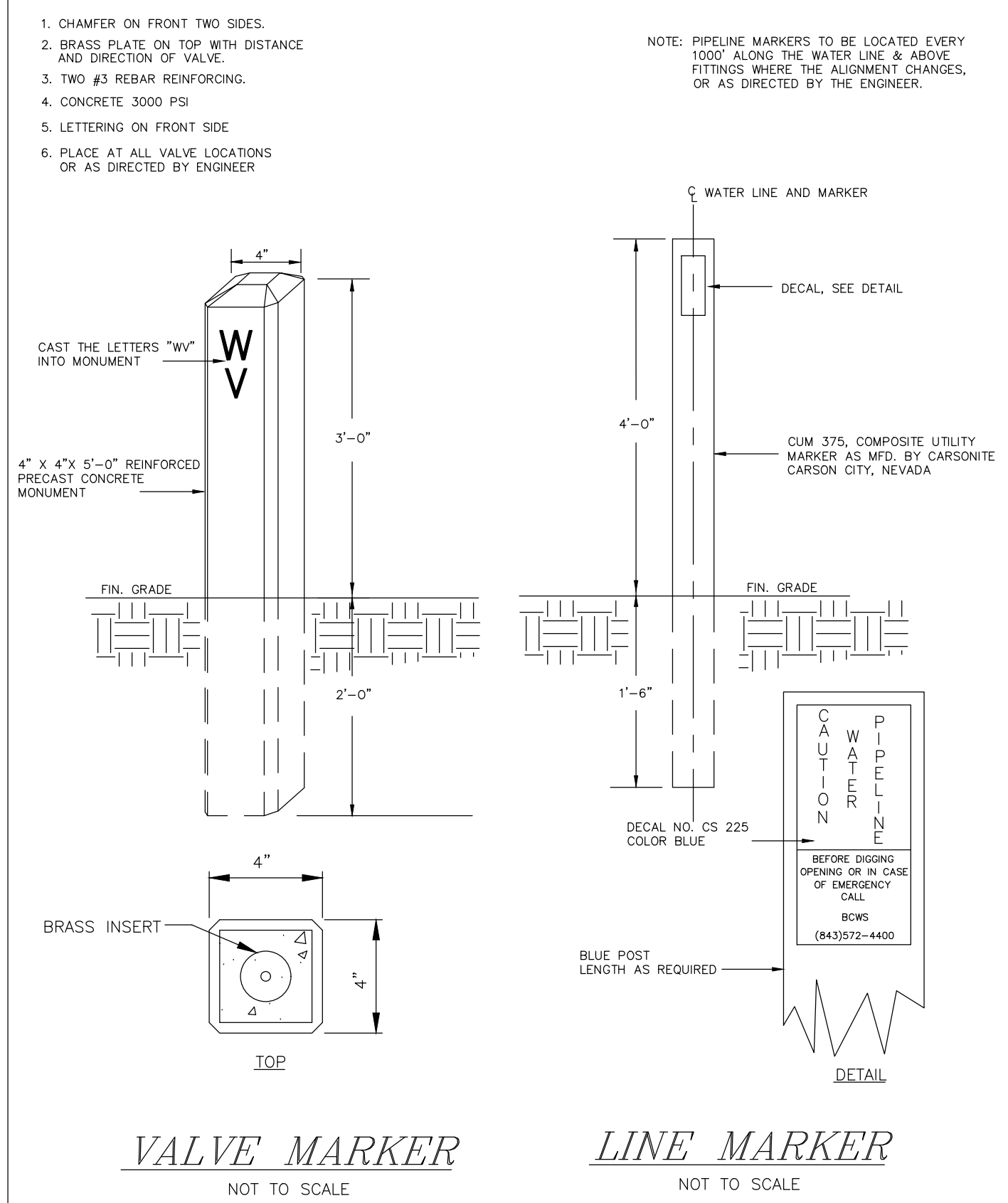
BERKELEY COUNTY
BERKELEY COUNTY, SC

BERKELEY-DORCHESTER REACH INTERCONNECT

DIV. I - WATER MAIN DETAILS

JOB NO:	J-26926.0000
DATE:	01/11/21
DRAWN:	JTB
DESIGNED:	LHB
REVIEWED:	PLB
APPROVED:	LHB
SCALE:	N/A

C3.1

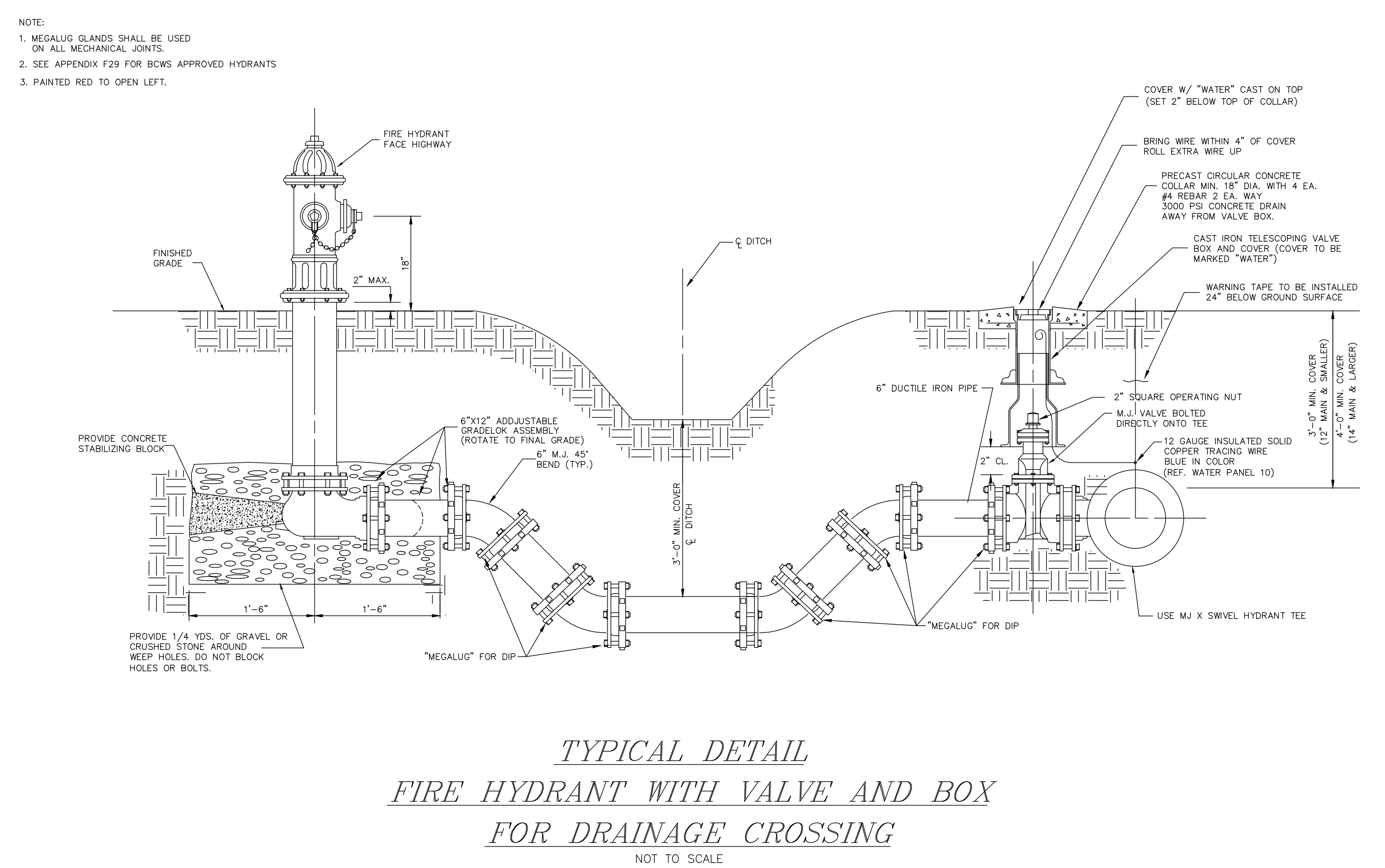


VALVE MARKER
NOT TO SCALE

LINE MARKER
NOT TO SCALE

WATER PANEL 9

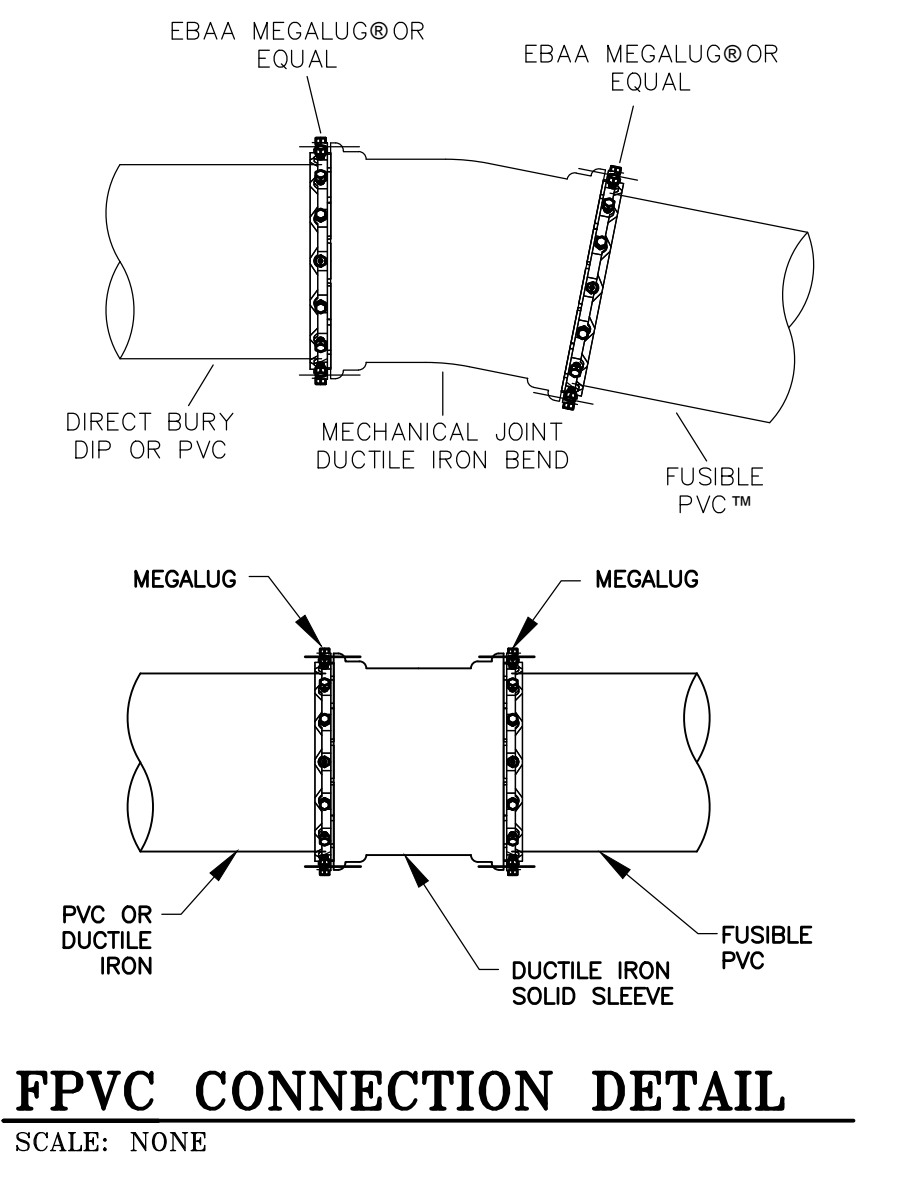
BERKELEY COUNTY WATER AND SANITATION
POTABLE WATER & SANITARY SEWER STANDARDS
REVISED 10/10/08



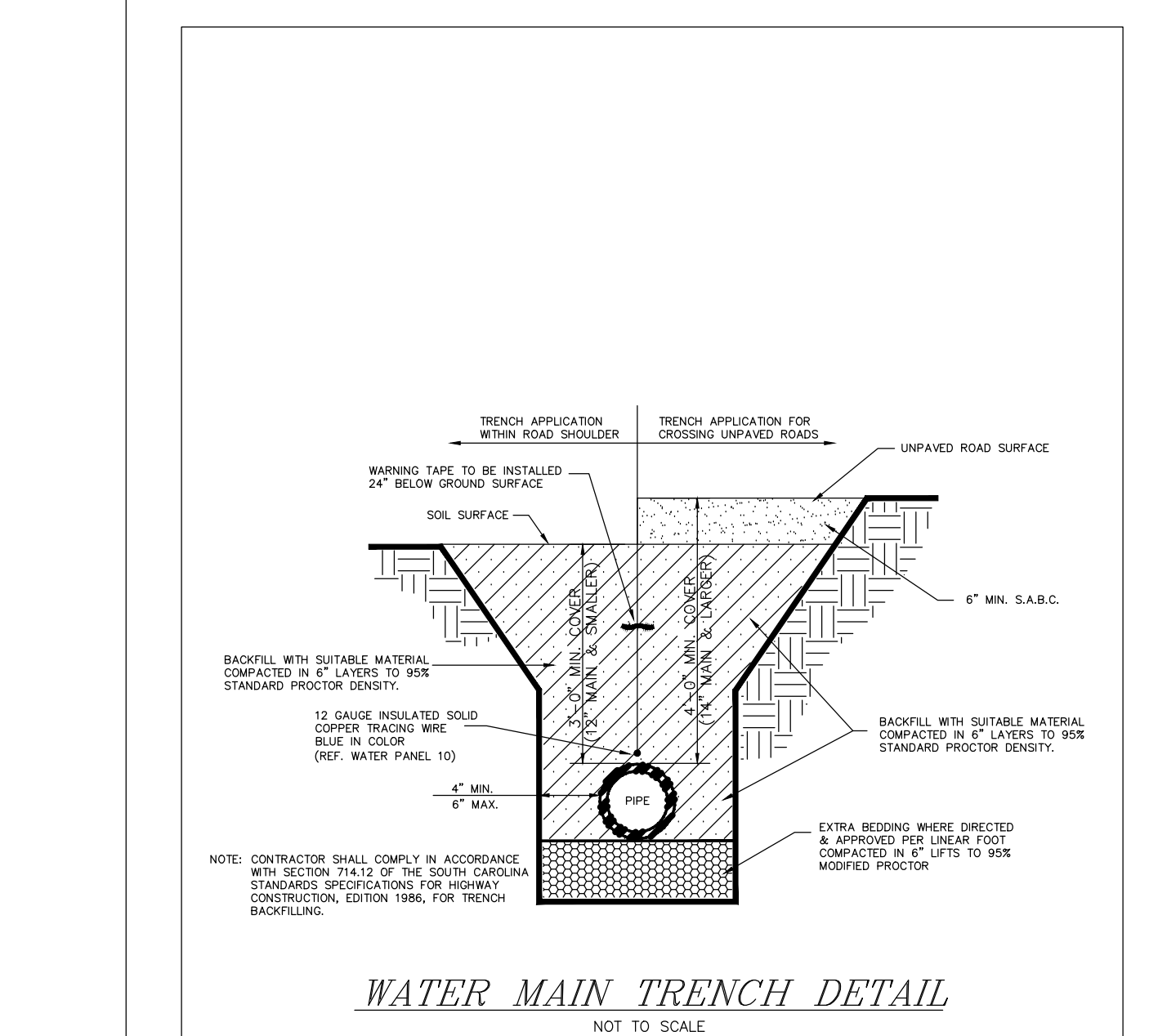
TYPICAL DETAIL
FIRE HYDRANT WITH VALVE AND BOX
FOR DRAINAGE CROSSING
NOT TO SCALE

WATER PANEL 4B

BERKELEY COUNTY WATER AND SANITATION
POTABLE WATER & SANITARY SEWER STANDARDS
REVISED 04/14/11



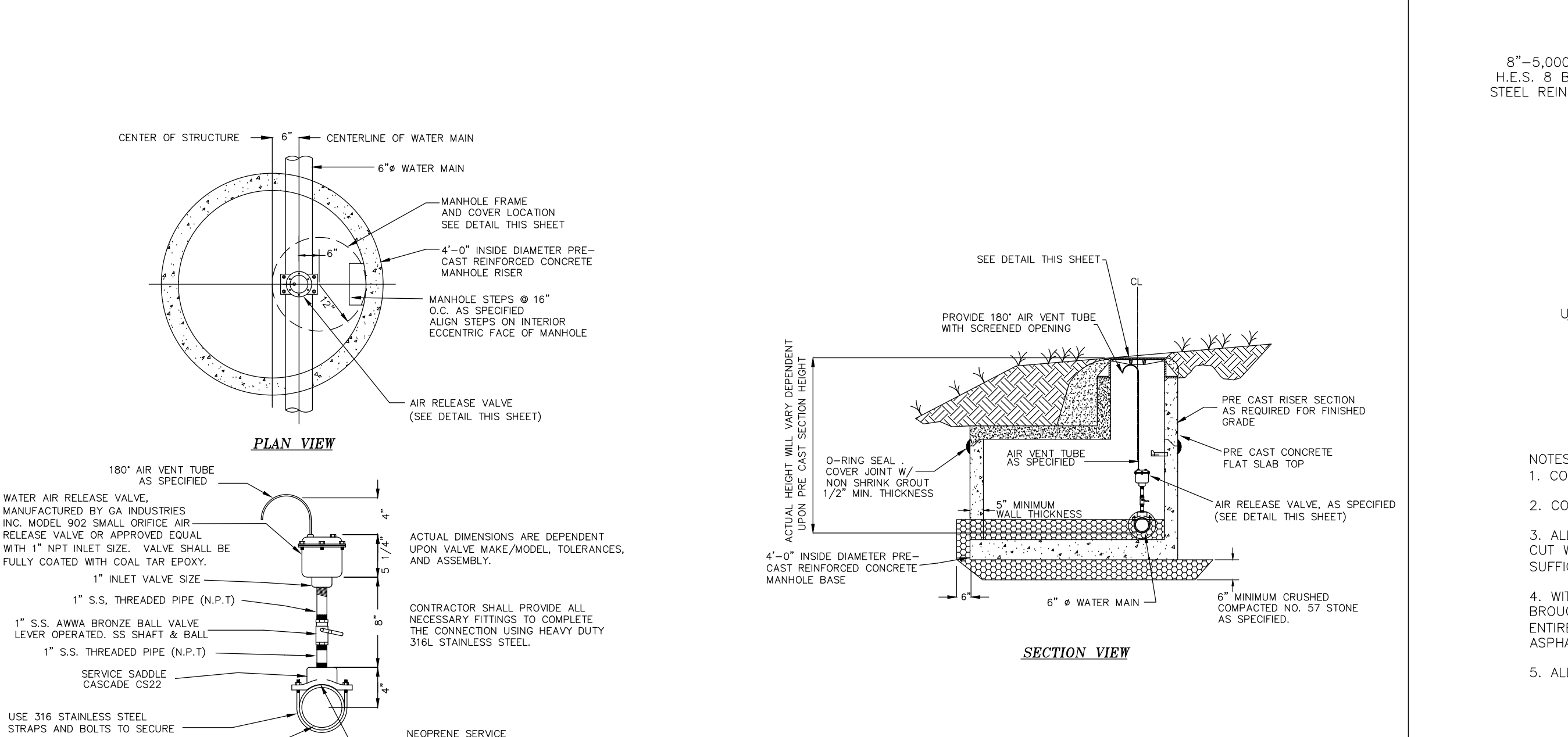
FPVC CONNECTION DETAIL
SCALE: NONE



WATER MAIN TRENCH DETAIL
NOT TO SCALE

WATER PANEL 8

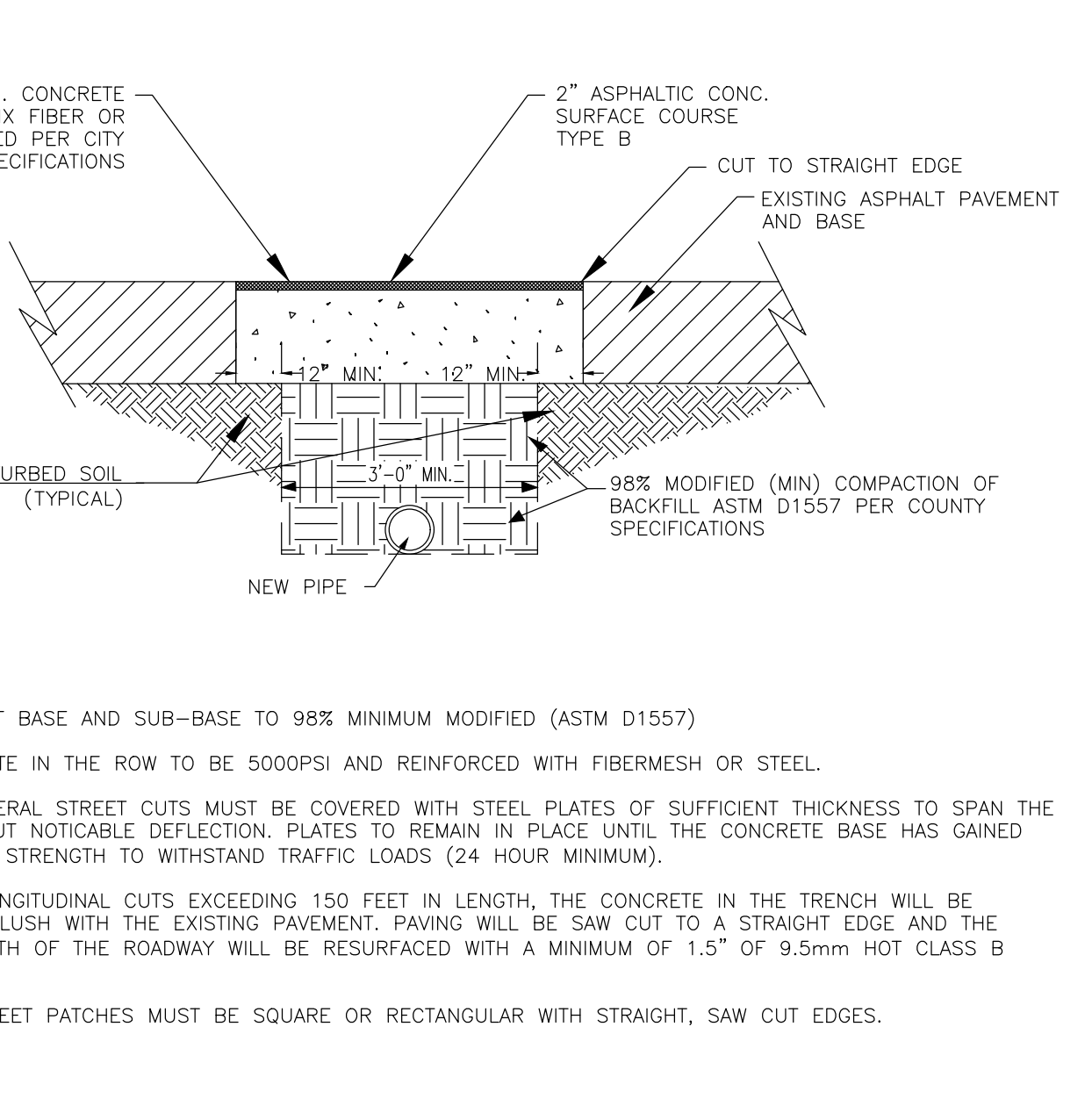
BERKELEY COUNTY WATER AND SANITATION
POTABLE WATER & SANITARY SEWER STANDARDS
REVISED 08/01/08



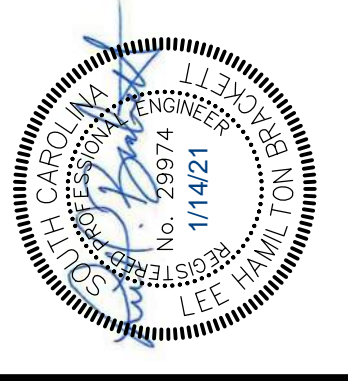
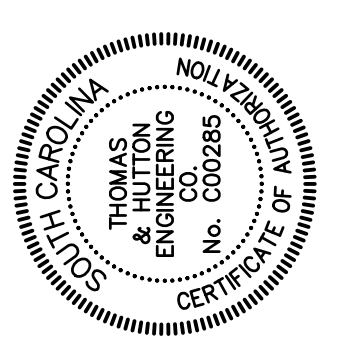
WATER AIR RELEASE VALVE
NOT TO SCALE

WATER PANEL 11

BERKELEY COUNTY WATER AND SANITATION
POTABLE WATER & SANITARY SEWER STANDARDS
REVISED 08/01/08



BITUMINOUS PAVEMENT REPLACEMENT
SCALE: NONE



NO.	REVISIONS	BY	DATE

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BERKELEY COUNTY
BERKELEY COUNTY, SC

BERKELEY-DORCHESTER REACH INTERCONNECT

DIV. 1 - WATER MAIN DETAILS

JOB NO:	J-26926.0000
DATE:	01/11/21
DRAWN:	JTB
DESIGNED:	LHB
REVIEWED:	PLB
APPROVED:	LHB
SCALE:	N/A

C3.2

STORMWATER POLLUTION PREVENTION PLAN

TEMPORARY SEEDING - COASTAL													
SPECIES	LBS/AC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SANDY, DROUGHTY SITES													
BROWNTOP MILLET	40												
RYE, GRAIN	56												
RYEGRASS	50												
WELL DRAINED, CLAYEY/LOAMEY SITES													
BROWNTOP MILLET	40												
JAPANESE MILLET	40												
RYE, GRAIN	56												
OATS	75												
RYEGRASS	50												

PERMANENT SEEDING - COASTAL													
SPECIES	LBS/AC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SANDY, DROUGHTY SITES													
BROWNTOP MILLET	10												
BAHIAGRASS	40												
BROWNTOP MILLET	10												
BAHIAGRASS	30												
SERICA LESPEDeza	40												
BROWNTOP MILLET	10												
ATLANTIC COASTAL PANICGRASS	15												
BROWNTOP MILLET	10												
SWITCHGRASS (ALAMO)	8												
LITTLE BLUESTEM	4												
SERICA LESPEDeza	20												
BROWNTOP MILLET	10												
WEEPING LOVEGRASS	8												
WELL DRAINED, CLAYEY/LOAMEY SITES													
BROWNTOP MILLET	10												
BAHIAGRASS	40												
RYE, GRAIN	10												
BAHIAGRASS	40												
CLOVER, CRIMSON (ANNUAL)	5												
BROWNTOP MILLET	10												
BAHIAGRASS	30												
SERICA LESPEDeza	40												
BROWNTOP MILLET	10												
BERMUDA, COMMON	10												
SERICA LESPEDeza	40												
BROWNTOP MILLET	10												
BERMUDA, COMMON	12												
KOBE LESPEDeza (ANNUAL)	10												
BROWNTOP MILLET	10												
BAHIAGRASS	20												
BERMUDA, COMMON	6												
SERICA LESPEDeza	40												
BROWNTOP MILLET	10												
SWITCHGRASS	8												
LITTLE BLUESTEM	PLS												
INDIAGRASS	3												

EROSION CONTROL LEGEND

DESCRIPTION	PLAN SYMBOL
SILT FENCE	
CLEARING LIMITS	— CL — CL —
DIVERSION DIKE	⇒ DD ⇒
DIVERSION BERM	⇒ DB ⇒
TEMPORARY DIVERSION	⇒ TD ⇒
PERMANENT DIVERSION	→ PD →
SUBSURFACE DRAIN	---SSD---
VEGETATED CHANNEL	
RIP RAP LINED CHANNEL	
ECB OR TRM LINED CHANNEL	
PAVED CHANNEL	PC
TREE PROTECTION	
SURFACE ROUGHENING	
TOP SOILING	
TEMPORARY SEEDING	TS
PERMANENT SEEDING	PS
MULCHING	M

EROSION CONTROL LEGEND

DESCRIPTION	PLAN SYMBOL
EROSION CONTROL BLANKET OR TURF REINFORCEMENT MAT	
FLEXIBLE GROWTH MATRIX	FGM
BONDED FIBER MATRIX	BFM
SODDING	SO
SLOPED SODDING	
STAKED SOD	
STAKED SOD AROUND INLET	
RIPRAP	
OUTLET PROTECTION - RIP RAP	
OUTLET PROTECTION - ECB OR TRM	
DUST CONTROL	DC
POLYACRYLAMIDE (PAM)	PAM
SEDIMENT BASIN	
SEDIMENT BASIN WITH SKIMMER	
SEDIMENT TRAP	
ROCK SEDIMENT DIKE	
SEDIMENT TUBE	

EROSION CONTROL LEGEND

DESCRIPTION	PLAN SYMBOL
ROCK CHECK DAM	
POROUS BAFFLES	
STABILIZED CONSTRUCTION ENTRANCE	
CONCRETE WASHOUT	
STORM DRAIN INLET PROTECTION - TYPE A FILTER FABRIC	
STORM DRAIN INLET PROTECTION - TYPE A SEDIMENT TUBE	
STORM DRAIN INLET PROTECTION - TYPE B HARDWARE FABRIC AND STONE	
STORM DRAIN INLET PROTECTION - TYPE C BLOCK AND GRAVEL	
STORM DRAIN INLET PROTECTION - TYPE D RIGID INLET FILTER	
STORM DRAIN INLET PROTECTION - TYPE E SURFACE COURSE CURB INLET FILTER	
STORM DRAIN INLET PROTECTION - TYPE F INLET TUBE	
STORM DRAIN INLET PROTECTION - TYPE G IMPERVIOUS AREA	
STORM DRAIN INLET PROTECTION - CATCH BASIN INSERT	
PIPE SLOPE DRAINS	
TEMPORARY STREAM CROSSING	
LEVEL SPREADER	

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

CONSTRUCTION SEQUENCE

CONSTRUCTION ACTIVITY	SCHEDULE CONSIDERATION
1 OBTAIN COPIES OF ALL PLAN APPROVALS AND OTHER APPLICABLE PERMITS.	CONTRACTOR TO HAVE ONSITE AT ALL TIMES DURING CONSTRUCTION.
2 FLAG THE WORK LIMITS.	
3 HOLD PRE CONSTRUCTION CONFERENCE AT LEAST ONE WEEK PRIOR TO STARTING CONSTRUCTION.	
4 INSTALL CONSTRUCTION ACCESS, SILT FENCE, AND LAY DOWN AREAS.	STABILIZE BARE AREAS IMMEDIATELY AND INSTALL CONSTRUCTION EXITS / ENTRANCES.
5 INSTALL WATER DISTRIBUTION SYSTEM.	APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS WHERE WORK IS DELAYED OR COMPLETE.
6 SURFACE STABILIZATION-TEMPORARY AND PERMANENT SEEDING, MULCHING, SODDING, RIP RAP.	APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS WHERE WORK IS DELAYED OR COMPLETE.
7 LANDSCAPING AND FINAL STABILIZATION - TOPSOILING, TREES AND SHRUBS, PERMANENT SEEDING, MULCHING, SODDING, RIP RAP.	LAST CONSTRUCTION PHASE-STABILIZE ALL OPEN AREAS, INCLUDING BORROW AND SPOIL AREAS. REMOVE AND STABILIZE ALL TEMPORARY CONTROL MEASURES.



NO.	REVISIONS	BY	DATE

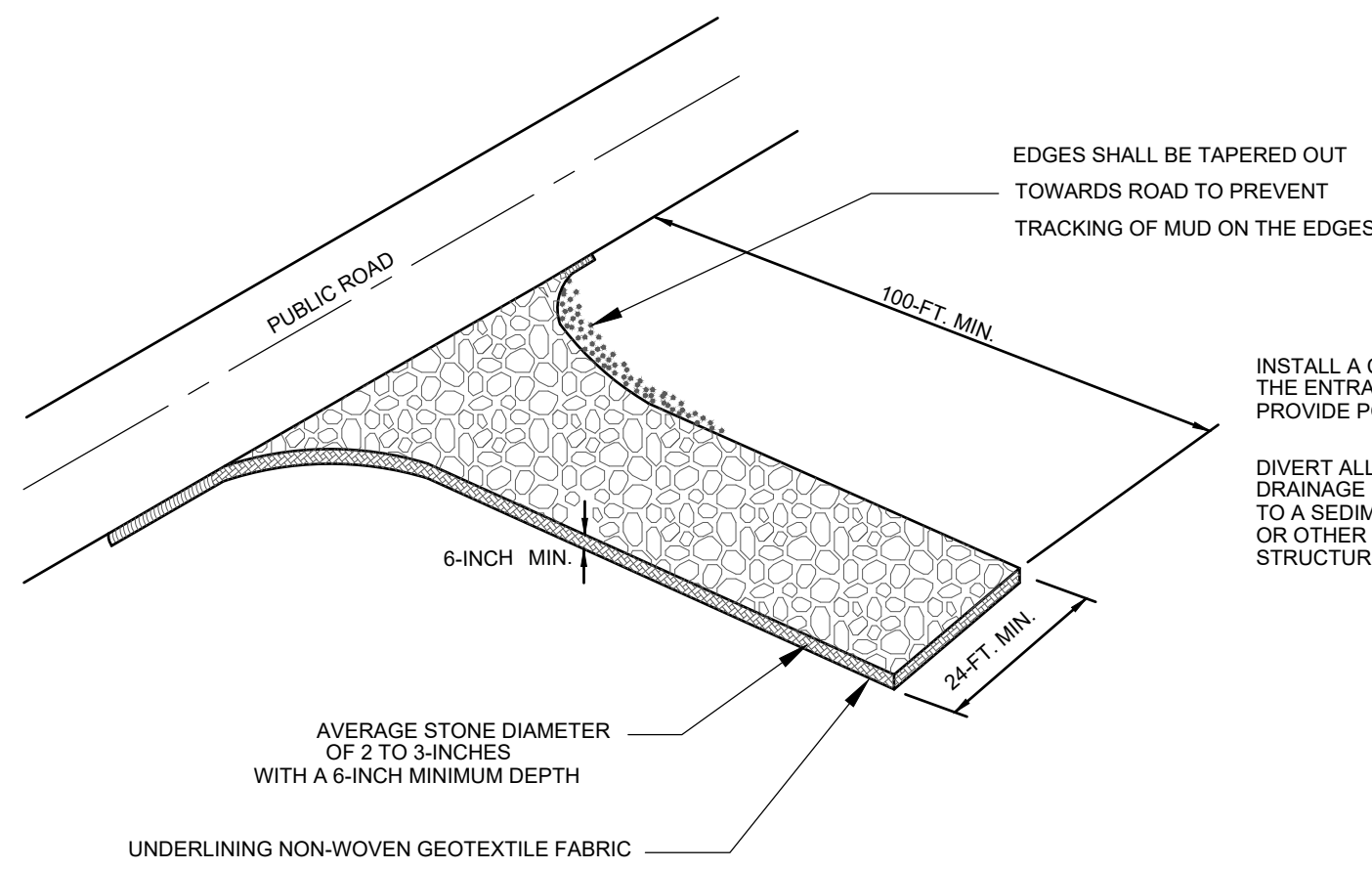
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BERKELEY COUNTY
 BERKELEY COUNTY, SC
 BERKELEY-DORCHESTER REACH INTERCONNECT
 DIV. 1 - EROSION CONTROL CHARTS

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REVIEWED:	PLB
APPROVED:	LHB
SCALE:	N/A

EC1.1

STORMWATER POLLUTION PREVENTION PLAN



EDGES SHALL BE TAPERED OUT TOWARDS ROAD TO PREVENT TRACKING OF MUD ON THE EDGES

INSTALL A CULVERT PIPE ACROSS THE ENTRANCE WHEN NEEDED TO PROVIDE POSITIVE DRAINAGE.

DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE STONE PAD TO A SEDIMENT TRAP OR BASIN OR OTHER SEDIMENT TRAPPING STRUCTURE.

AVERAGE STONE DIAMETER OF 2 TO 3-INCHES WITH A 6-INCH MINIMUM DEPTH

UNDERLINING NON-WOVEN GEOTEXTILE FABRIC

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 SCDHEC 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:

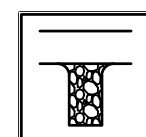
CHECK FOR MUD AND SEDIMENT BUILDUP AND PAD INTEGRITY. MAKE DAILY INSPECTIONS DURING PERIODS OF WET WEATHER. MAINTENANCE IS REQUIRED MORE FREQUENTLY IN WET WEATHER CONDITIONS. RESHAPE THE STONE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.

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.

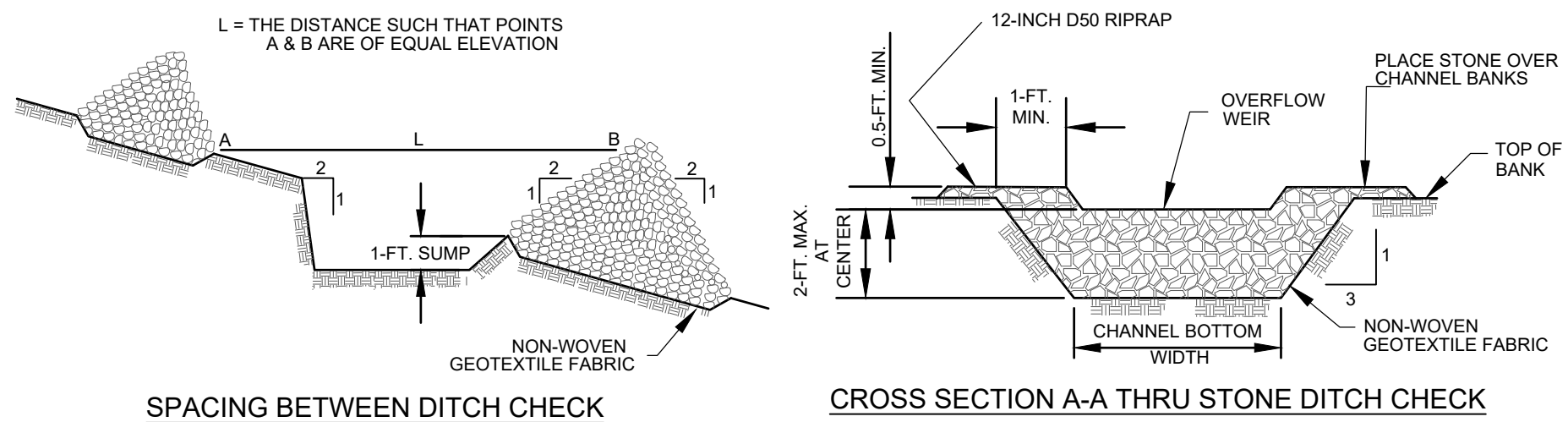
IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. FLUSHING SHOULD ONLY BE USED WHEN THE WATER CAN BE DISCHARGED TO A SEDIMENT TRAP OR BASIN.

REPAIR ANY BROKEN PAVEMENT IMMEDIATELY.



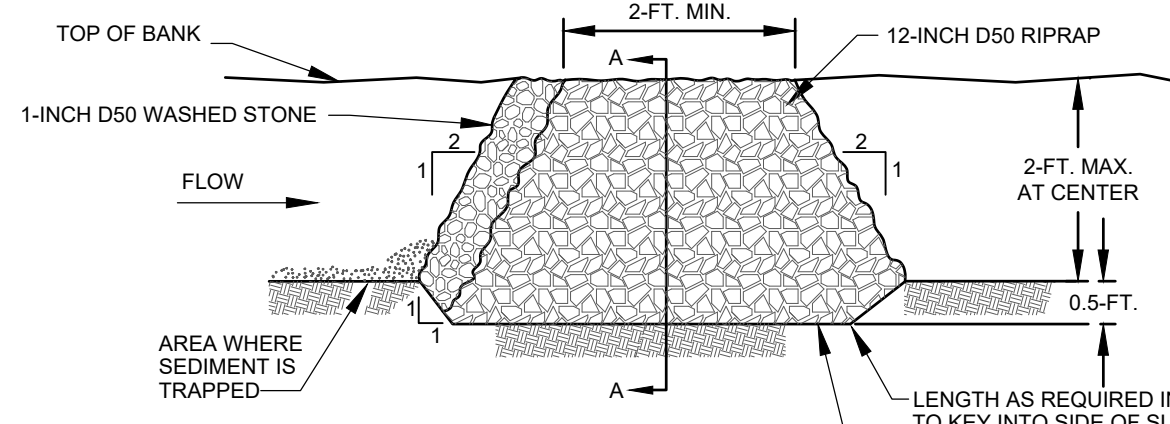
STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE



SPACING BETWEEN DITCH CHECK

CROSS SECTION A-A THRU STONE DITCH CHECK



TYPICAL DITCH CHECK SECTION

NOTE:
ROCK CHECK TO BE REMOVED BY GRADING CONTRACTOR AFTER CONSTRUCTION IS COMPLETE AND GRASSING IS ESTABLISHED.

WHEN AND WHERE TO USE IT:
A ROCK DITCH CHECK SHOULD BE INSTALLED IN STEEPLY SLOPED SWALES, OR IN SWALES WHERE ADEQUATE VEGETATION CANNOT BE ESTABLISHED. ROCK DITCH CHECKS SHOULD BE USED ONLY IN SMALL OPEN CHANNELS. ROCK DITCH CHECKS SHOULD NOT BE PLACED IN WATERS OF THE COMMONWEALTH OR USGS BLUE-LINE STREAMS.

INSTALLATION:
A NON-WOVEN GEOTEXTILE FABRIC SHALL BE INSTALLED OVER THE SOIL SURFACE WHERE THE ROCK DITCH CHECK IS TO BE PLACED.

THE BODY OF THE ROCK DITCH CHECK SHALL BE COMPOSED OF 12-INCH D50 RIPRAP.

THE UPSTREAM FACE OF THE ROCK DITCH CHECK MAY BE COMPOSED OF 1-INCH D50 WASHED STONE.

ROCK DITCH CHECKS SHOULD NOT EXCEED A HEIGHT OF 2-FEET AT THE CENTERLINE OF THE CHANNEL.

ROCK DITCH CHECKS SHOULD HAVE A MINIMUM TOP FLOW LENGTH OF 2-FEET.

STONE SHOULD BE PLACED OVER THE CHANNEL BANKS TO PREVENT WATER FROM CUTTING AROUND THE DITCH CHECK.

THE ROCK MUST BE PLACED BY HAND OR MECHANICAL PLACEMENT (NO DUMPING OF ROCK TO FORM DAM) TO ACHIEVE COMPLETE COVERAGE OF THE DITCH OR SWALE AND TO ENSURE THAT THE CENTER OF THE CHECK IS LOWER THAN THE EDGES.

THE MAXIMUM SPACING BETWEEN THE DAMS SHOULD BE SUCH THAT THE TOE OF THE UPSTREAM CHECK IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM CHECK.

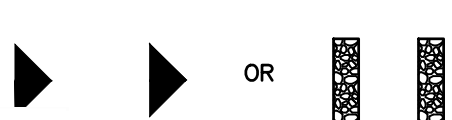
INSPECTION AND MAINTENANCE:
INSPECT FOR SEDIMENT AND DEBRIS ACCUMULATION. INSPECT DITCH CHECK EDGES FOR EROSION AND REPAIR PROMPTLY AS REQUIRED.

SEDIMENT SHOULD BE REMOVED WHEN IT REACHES 1/3 THE ORIGINAL CHECK HEIGHT.

IN THE CASE OF GRASS-LINED DITCHES AND SWALES, ROCK DITCH CHECKS SHOULD BE REMOVED WHEN THE GRASS HAS MATURED SUFFICIENTLY TO PROTECT THE DITCH OR SWALE UNLESS THE SLOPE OF THE SWALE IS GREATER THAN 4%.

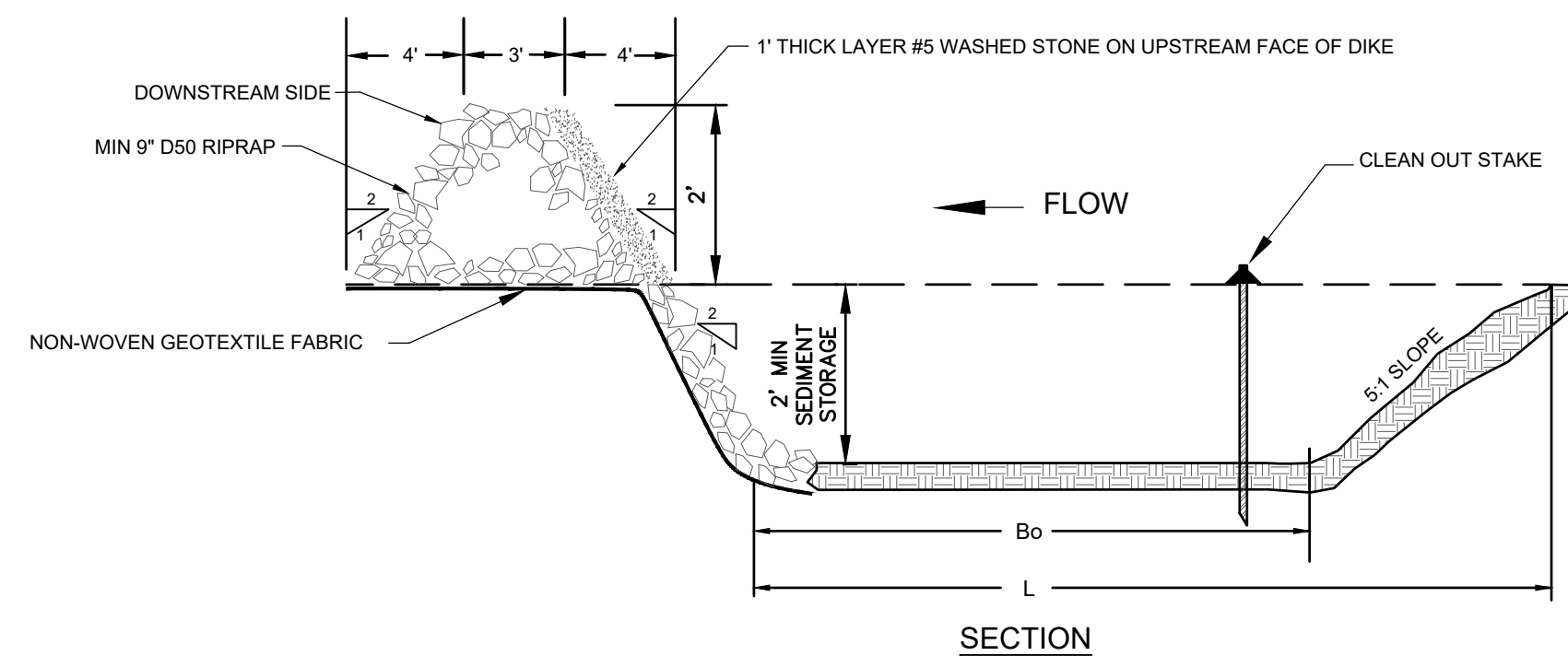
AFTER CONSTRUCTION IS COMPLETE, ALL STONE SHOULD BE REMOVED BY THE GRADING CONTRACTOR IF VEGETATION WILL BE USED FOR PERMANENT EROSION CONTROL MEASURES.

THE AREA BENEATH THE ROCK DITCH CHECKS SHOULD BE SEEDED AND MULCHED IMMEDIATELY AFTER ROCK CHECK DAM REMOVAL.

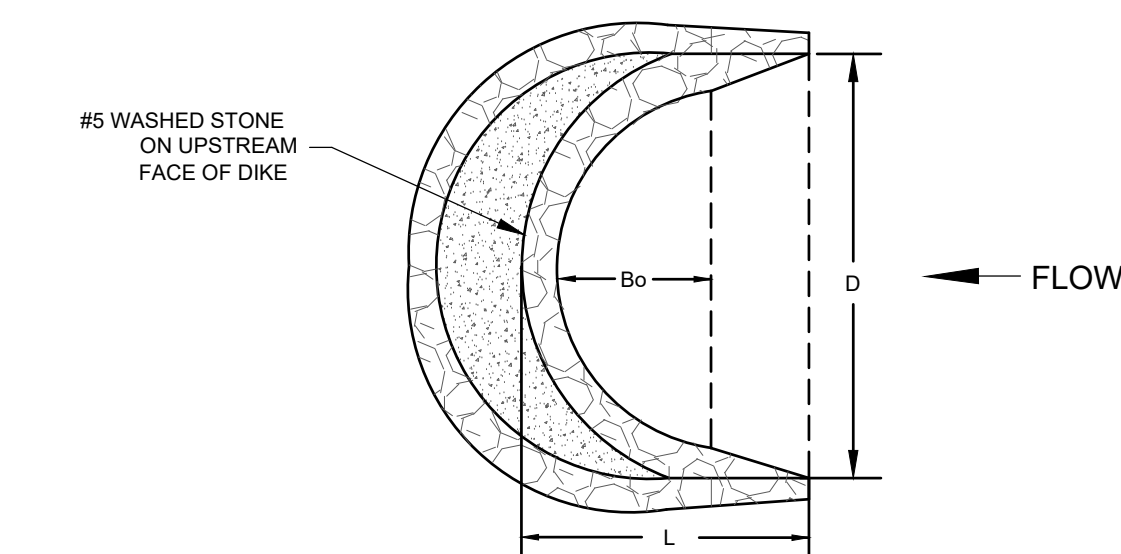


ROCK DITCH CHECK

NOT TO SCALE



SECTION



D	L	Bo	PEAK FLOW (CFS)	TOTAL STORAGE VOL. (CU. FT.)	SEDIMENT STORAGE VOLUME (CU. FT.)
15'	17.5'	3.5'	24.1	838	250
20'	20.0'	6.0'	32.1	1263	406
25'	22.5'	8.5'	40.1	1766	601
30'	25.0'	11.0'	48.2	2348	836

TYPICAL ROCK DIKE PLAN DIMENSIONS

WHEN AND WHERE TO USE IT:

ROCK SEDIMENT DIKES ARE MOST EFFECTIVE IN AREAS WHERE SEDIMENT CONTROL IS NEEDED WITH MINIMAL DISTURBANCE. THEY CAN BE USED AS SEDIMENT CONTROL STRUCTURES FOR THE OUTFALLS OF DIVERSION SWALES, DIVERSION DIKES, IN LOW AREAS OR OTHER AREAS WHERE CONCENTRATED SEDIMENT LADEN FLOW IS EXPECTED. ROCK SEDIMENT DIKES SHOULD NOT BE PLACED IN WATERS OF THE STATE OR ANY OTHER STREAMS THAT HAVE A BASE FLOW. MAXIMUM 2 - ACRE DRAINAGE AREA TO DIKE.

INSTALLATION:

A NON-WOVEN GEOTEXTILE FABRIC SHALL BE INSTALLED OVER THE SOIL SURFACE WHERE THE ROCK SEDIMENT DIKE IS TO BE PLACED.

THE BODY OF THE ROCK SEDIMENT DIKE SHALL BE COMPOSED OF MINIMUM 9-INCH D50 RIPRAP.

THE UPSTREAM FACE OF THE ROCK SEDIMENT DIKE SHALL BE COMPOSED OF A 1-FOOT THICK LAYER OF 3/4-INCH TO 1-INCH D50 WASHED STONE PLACED AT A SLOPE OF 2H:1V.

ROCK SEDIMENT DIKES SHALL HAVE A MINIMUM TOP FLOW LENGTH OF 3-FEET (2-FOOT FLOW LENGTH THROUGH THE RIPRAP AND 1-FOOT FLOW LENGTH THROUGH THE WASHED STONE).

THE ROCK MUST BE PLACED BY HAND OR MECHANICAL PLACEMENT (NO DUMPING OF ROCK TO FORM THE SEDIMENT DIKE) TO ACHIEVE THE PROPER DIMENSIONS.

A SEDIMENT SUMP SHALL BE LOCATED ON THE UPSTREAM SIDE OF THE STRUCTURE TO PROVIDE SEDIMENT STORAGE. THE UPSTREAM SIDE OF THE SEDIMENT SUMP SHALL HAVE A SLOPE OF 5H:1V TO INHIBIT EROSION OF THE SEDIMENT STORAGE AREA. THE MINIMUM DEPTH OF THE SEDIMENT SUMP SHALL BE 2-FEET. MARK THE SEDIMENT CLEANOUT LEVEL OF THE SEDIMENT DIKE WITH A STAKE IN THE FIELD.

SEED AND MULCH ALL DISTURBED AREAS.

INSPECTION AND MAINTENANCE:

CONTRACTOR SHALL PROVIDE CONTINUAL MONITORING, REGULAR MAINTENANCE AND REGULAR SEDIMENT REMOVAL.

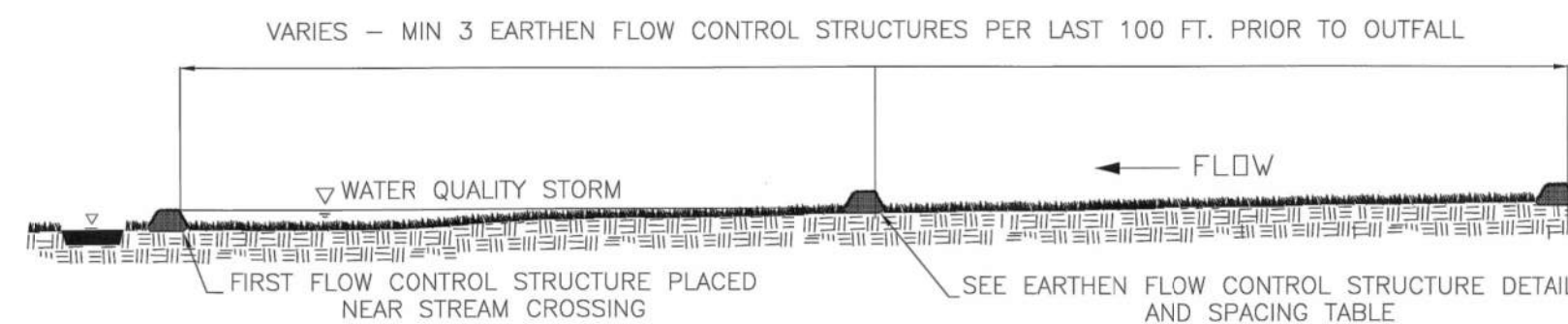
REMOVE SEDIMENT WHEN IT REACHES 50% OF THE SEDIMENT STORAGE VOLUME OR WHEN REACHES THE TOP OF CLEANOUT STAKE. REMOVED SEDIMENT FROM THE SUMP SHOULD BE REMOVED FROM, OR STABILIZED ON SITE.

ALL ROCK SEDIMENT DIKES SHOULD BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THEY ARE NO LONGER NEEDED. DISTURBED AREAS RESULTING FROM THE REMOVAL OF ROCK SEDIMENT DIKES SHOULD BE PERMANENTLY STABILIZED.



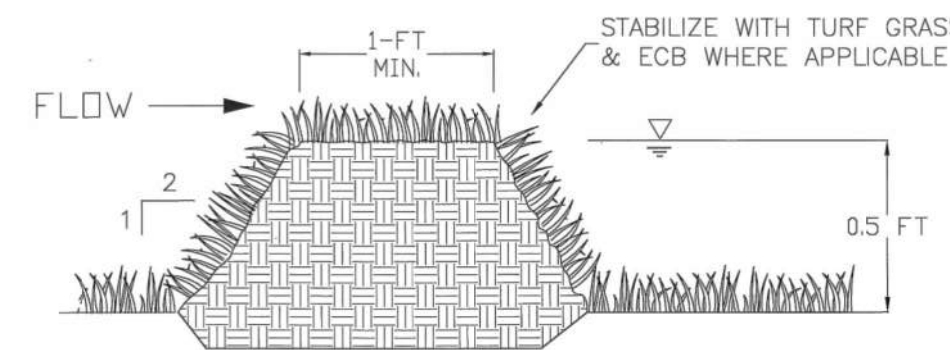
ROCK SEDIMENT DIKES

NOT TO SCALE



PROFILE OF GRASSED CHANNEL/SWALE

Minimum DOT ROW Drainage Area (acres)	Maximum Vegetated Channel Longitudinal Slope	Number of Earthen Flow Control Structures Required	
		Upper State	Lower State
0.25	≤ 0.5%	3 per 100 ft	
	1.0%	5 per 100 ft	9 per 100 ft
	2.0%	5 per 100 ft	9 per 100 ft
	4.0%	7 per 100 ft	9 per 100 ft
0.50	≤ 0.5%	5 per 100 ft	
	1.0%	6 per 100 ft	9 per 100 ft
	2.0%	6 per 100 ft	9 per 100 ft
1.00	≤ 0.5 - 4.0%	9 per 100 ft	
	2.00	≤ 0.5 - 4.0%	7 per 100 ft
3.00	≤ 0.5 - 4.0%	8 per 100 ft	
	4.00	≤ 0.5 - 4.0%	9 per 100 ft
5.00	≤ 0.5 - 1.0%	9 per 100 ft	
	2.0 - 4.0%	10 per 100 ft	

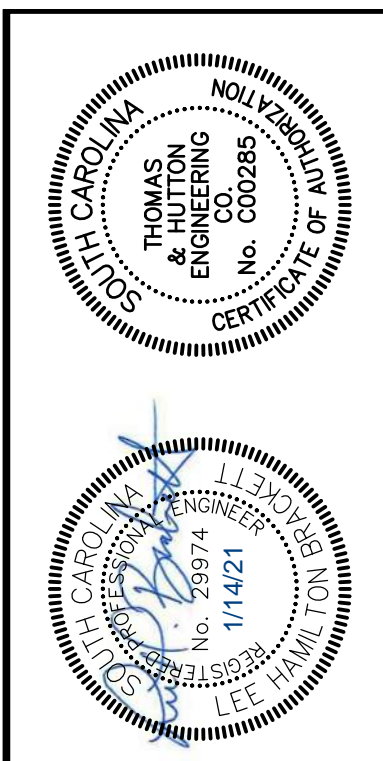


EARTHEN FLOW CONTROL STRUCTURE

Number of Flow Control Structures	Flow Control Structure Spacing
3	OR, 50ft, 100ft
5	OR, 25ft, 50ft, 75ft, 100ft
6	OR, 20ft, 40ft, 60ft, 80ft, 100ft
7	OR, 15ft, 30ft, 50ft, 60ft, 80ft, 100ft
8	OR, 14ft, 25ft, 43ft, 57ft, 71ft, 86ft, 100ft
9	OR, 13ft, 25ft, 38ft, 50ft, 63ft, 75ft, 88ft, 100ft
10	OR, 11ft, 22ft, 33ft, 44ft, 55ft, 67ft, 78ft, 89ft, 100ft

REFERENCES

BERKELEY COUNTY, SC
 SCDOT
 SOUTH CAROLINA PROFESSIONAL ENGINEERING BOARD
 NO. 21240
 James A. Hutton
 2-9-2015
 DATE
 STANDARD DRAWING
 GRASSED CHANNELS AND SWALES
 815-008-02
 THIS DRAWING IS NOT TO SCALE
 DRAWN BY: JTB



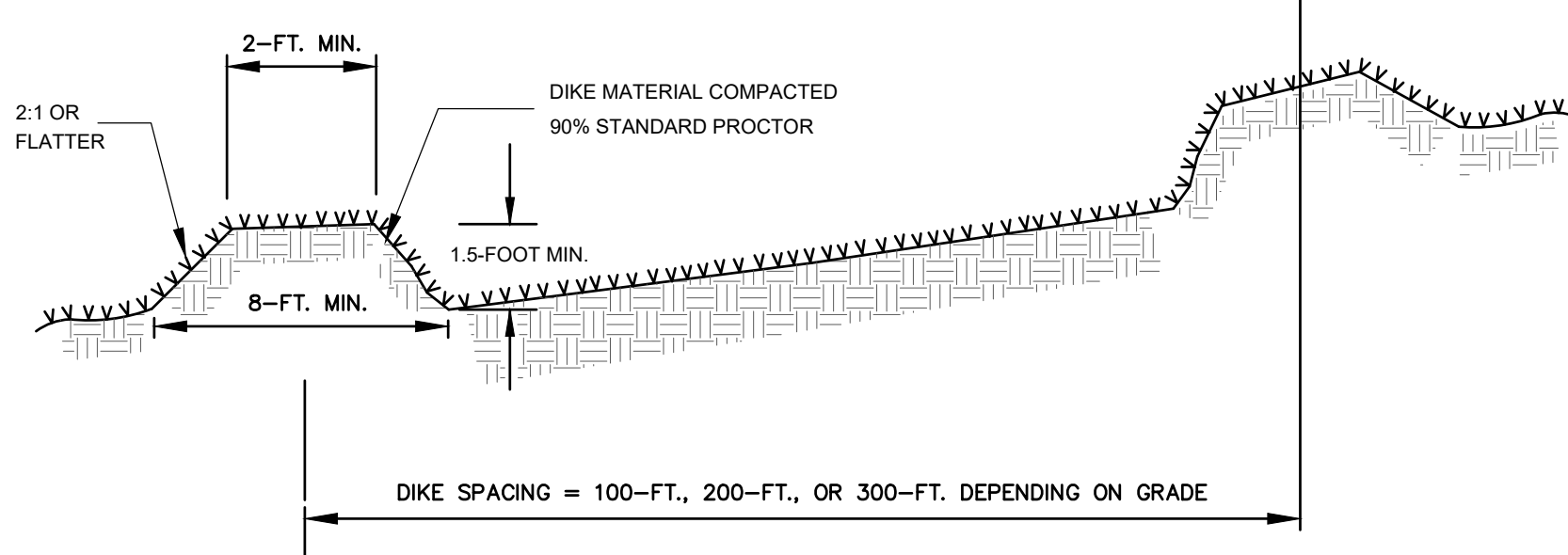
NO.	REVISIONS	BY	DATE

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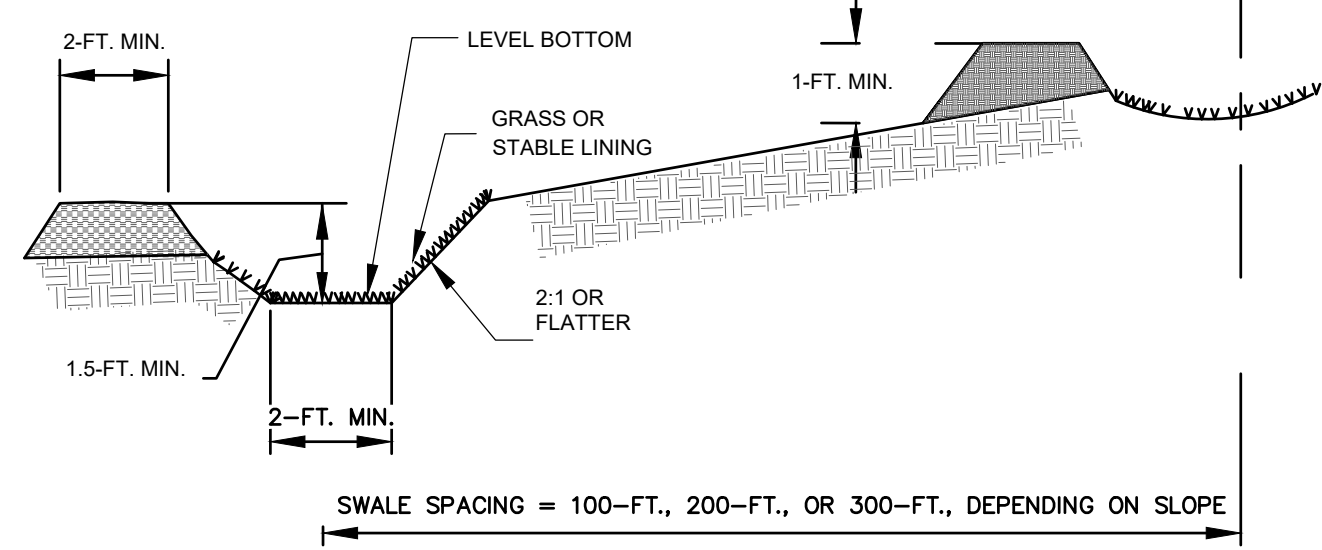


SECTION

INSTALLATION:
SLOPES SHALL BE STABILIZED IMMEDIATELY USING VEGETATION, SOD, AND EROSION CONTROL BLANKETS OR TURF REINFORCEMENT MATS TO PREVENT EROSION.
THE UPSLOPE SIDE OF THE DIKE SHOULD PROVIDE POSITIVE DRAINAGE SO NO EROSION OCCURS AT THE OUTLET. PROVIDE ENERGY DISSIPATION MEASURES AS NECESSARY. SEDIMENT-LADEN RUNOFF MUST BE RELEASED THROUGH A SEDIMENT TRAPPING FACILITY.
SEDIMENT-LADEN RUNOFF SHALL BE DIRECTED TO A SEDIMENT TRAPPING FACILITY.
MINIMIZE CONSTRUCTION TRAFFIC OVER DIVERSION DIKES AND BERMS.

INSPECTION AND MAINTENANCE:
DAMAGE CAUSED BY CONSTRUCTION TRAFFIC OR OTHER ACTIVITY MUST BE REPAIRED BEFORE THE END OF EACH WORKING DAY.

→ DD → **DIVERSION DIKE OR BERM**
NOT TO SCALE

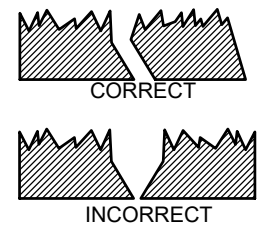
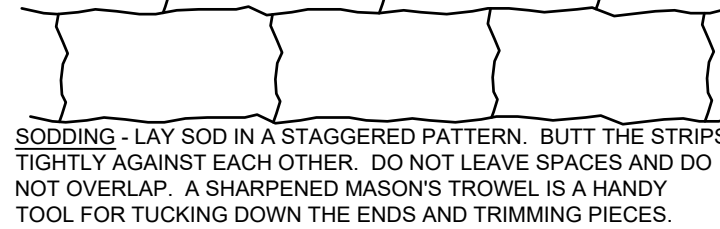
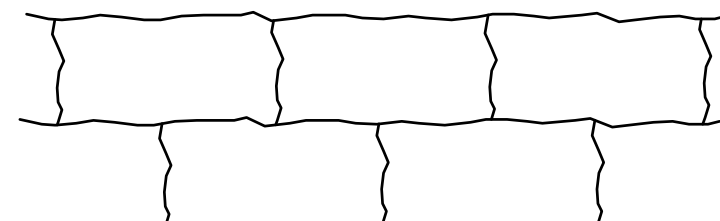


SECTION

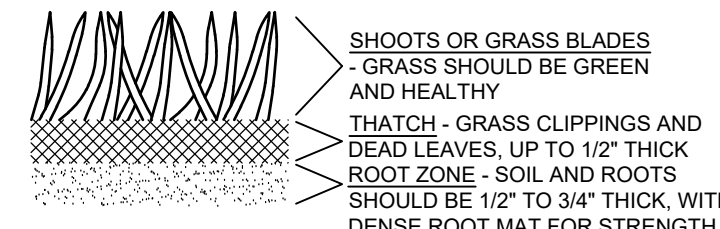
INSTALLATION:
THE BOTTOM WIDTH SHOULD BE A MINIMUM OF 2-FEET, AND THE BOTTOM SHOULD BE LEVEL.
THE DEPTH SHOULD BE A MINIMUM OF 1.5-FEET AND THE SIDE SLOPES SHOULD BE 2H:1V OR FLATTER.
THE MAXIMUM GRADE SHALL BE 5%, WITH POSITIVE DRAINAGE TO A SUITABLE OUTLET.
SLOPES SHALL BE STABILIZED IMMEDIATELY USING VEGETATION, SOD, AND EROSION CONTROL BLANKETS OR TURF REINFORCEMENT MATS TO PREVENT EROSION.
THE UPSLOPE SIDE OF THE SWALE SHOULD PROVIDE POSITIVE DRAINAGE SO NO EROSION OCCURS AT THE OUTLET. PROVIDE ENERGY DISSIPATION MEASURES AS NECESSARY.
SEDIMENT-LADEN RUNOFF SHALL BE DIRECTED TO A SEDIMENT TRAPPING FACILITY.

INSPECTION AND MAINTENANCE:
DAMAGE CAUSED BY CONSTRUCTION TRAFFIC OR OTHER ACTIVITY MUST BE REPAIRED BEFORE THE END OF EACH WORKING DAY.

→ TD → **TEMPORARY DIVERSION DITCH OR SWALE**
NOT TO SCALE



ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL. WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS SOON AS THE SOD IS LAID. MOW WHEN THE SOD IS ESTABLISHED - IN 2 - 3 WEEKS. SET THE MOWER HIGH (2"-3").



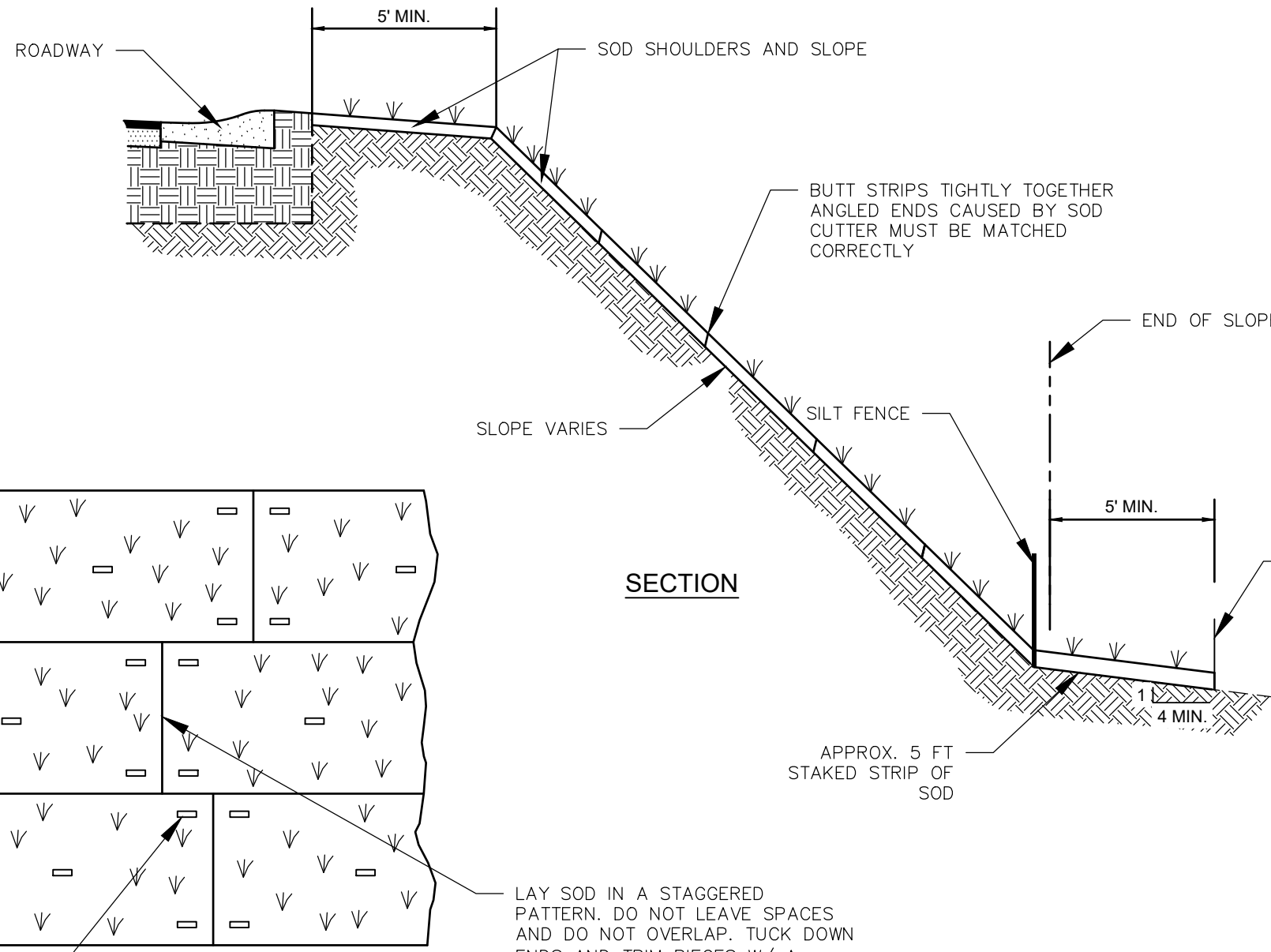
SO **SODDING**
NOT TO SCALE

SPECIFICATIONS:
IF FEASIBLE, SOD SHOULD NOT BE LAID IN EXCESSIVELY WET OR DRY WEATHER.
DURING PERIODS OF HIGH TEMPERATURE, OR IF THE SOIL IS DRY, THE SOIL SHOULD BE LIGHTLY IRRIGATED IMMEDIATELY PRIOR TO LAYING THE SOD.
THE FIRST ROW OF SOD SHOULD BE LAID IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO AND BUTTING TIGHTLY AGAINST EACH OTHER. JOINTS SHOULD BE STAGGERED TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH AND TO REDUCE THE CHANCE OF WASHOUTS UNDERNEATH THE SOD. CARE SHOULD BE EXERCISED TO INSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE DRYING OF THE ROOTS. SMALL GAPS OR VOIDS REMAINING AFTER THE SOIL IS LAID SHOULD BE FILLED WITH TOPSOIL.
PLACEMENT SHOULD BEGIN AT THE LOWER END OF SLOPES AND CHANNELS. ON SLOPES 3:1 OR GREATER, OR WHEREVER EROSION MAY BE A PROBLEM, SOD SHOULD BE SECURED BY PEGGING OR OTHER APPROVED METHODS. SOD SHOULD BE INSTALLED WITH THE LENGTH PERPENDICULAR TO THE SLOPE (ON THE CONTOUR).
AS SODDING IS COMPLETED, SOD SHOULD BE ROLLED OR TAMPED TO PROVIDE FIRM CONTACT BETWEEN ROOTS AND SOIL.
AFTER ROLLING, SOD SHOULD BE IRRIGATED TO A DEPTH SUFFICIENT THAT THE UNDERSIDE OF THE SOD PAD AND THE SOIL 4" BELOW THE SOD IS THOROUGHLY WET.
ESTABLISHMENT AND MAINTENANCE OF SOD:
DURING THE FIRST 3 - 4 WEEKS WATERING SHOULD BE PERFORMED AS OFTEN AS NECESSARY TO MAINTAIN MOIST SOIL TO A DEPTH OF AT LEAST 2 INCHES.

THE FIRST MOWING SHOULD NOT BE ATTEMPTED UNTIL THE SOD IS FIRMLY ROOTED, USUALLY 2 - 3 WEEKS. THE MOWER SHOULD BE SET HIGH (2 - 3 INCHES) FOR THE FIRST MOWING. NO MORE THAN 1/3 OF THE SHOOT (GRASS LEAF) SHOULD BE REMOVED IN ANY MOWING.

FERTILIZER SHOULD BE APPLIED, AS NECESSARY, TO OBTAIN AND MAINTAIN THE DESIRED GROWTH AND DENSITY. LIME SHOULD BE ADDED, AS NEEDED, TO MAINTAIN PROPER PH. SOIL SHOULD BE TESTED EVERY 1 - 2 YEARS TO DETERMINE FERTILIZER AND LIME REQUIREMENTS.

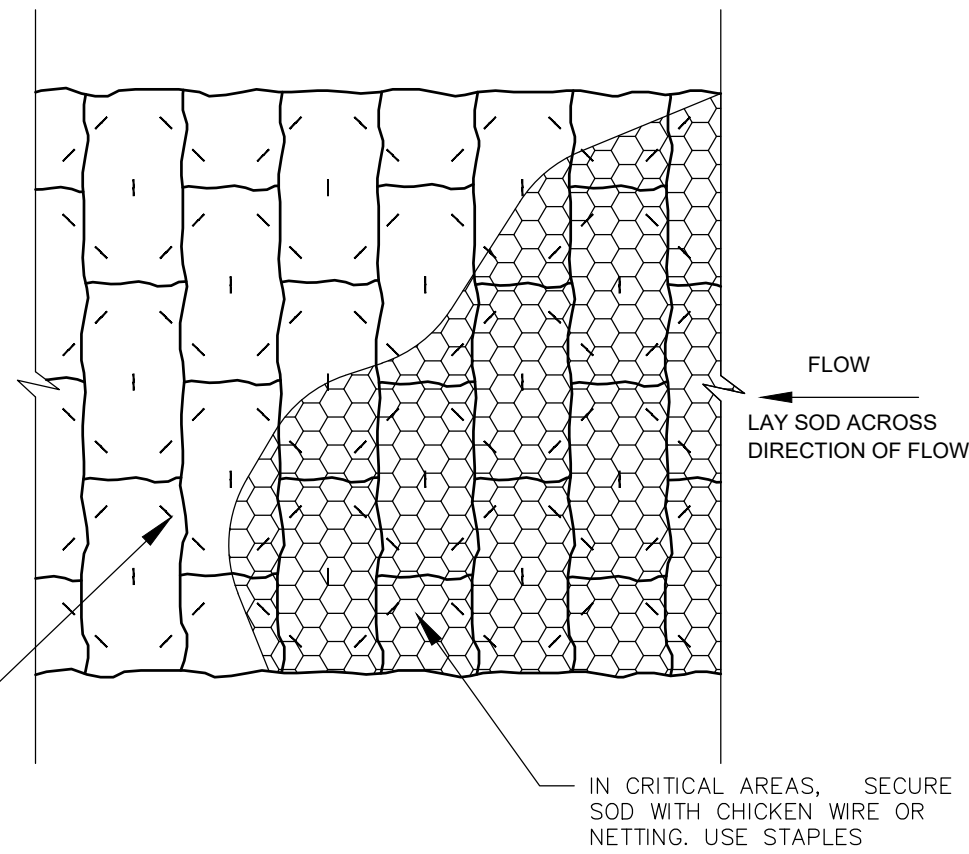
STORMWATER POLLUTION PREVENTION PLAN



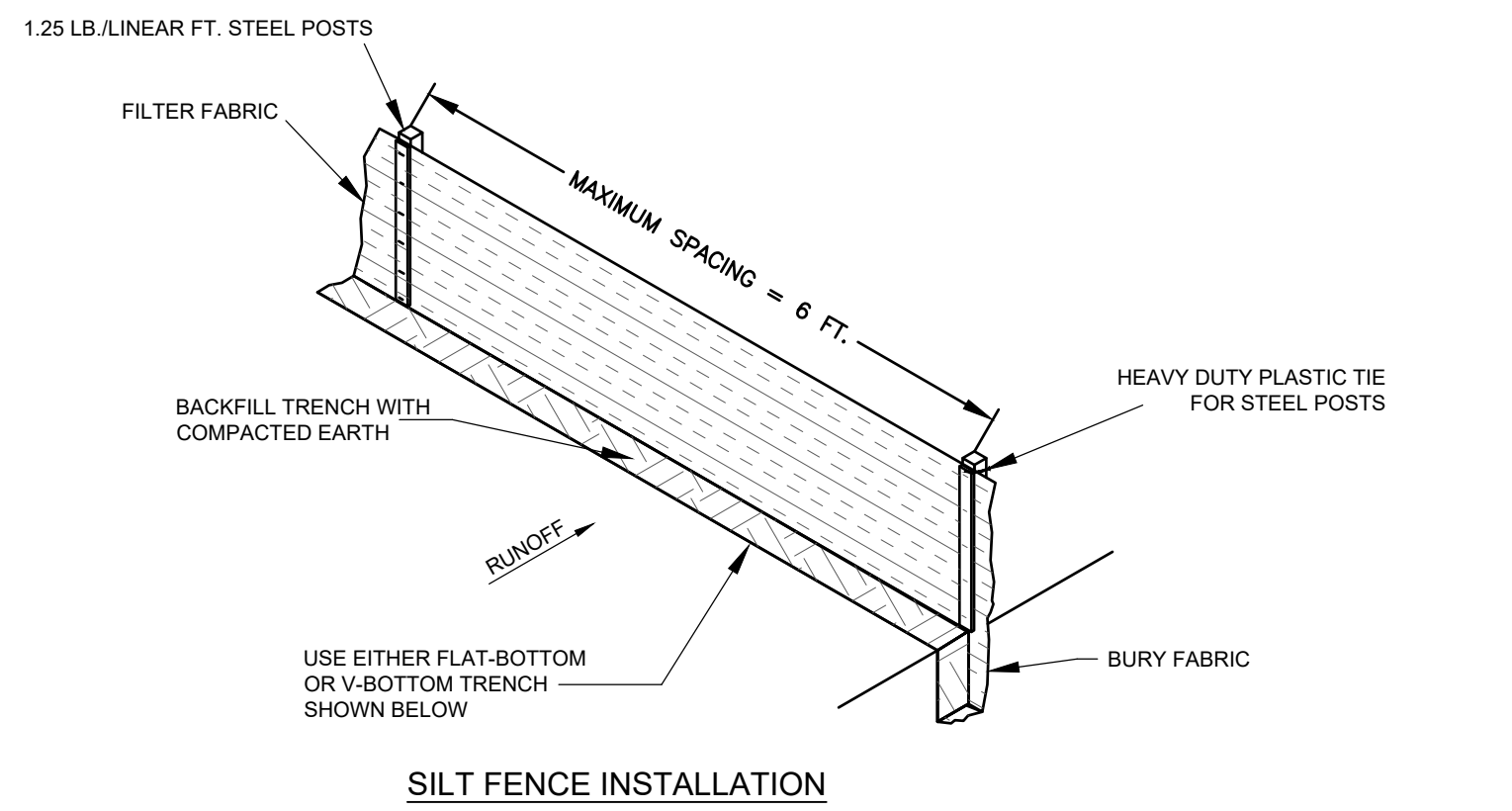
PLAN

USE PEGS OR STAPLES TO FASTEN SOD FIRMLY AT THE ENDS OF STRIPS AND IN THE CENTER AND EVERY 3-4 FEET IF THE STRIPS ARE LONG. PEGS SHALL BE 6"-10" IN LENGTH.
INSTALLATION AND MAINTENANCE OF SOD SHALL BE IN ACCORDANCE WITH "EROSION AND SEDIMENT CONTROL PRACTICES FOR DEVELOPING AREAS" BY THE SOUTH CAROLINA RESOURCES CONSERVATION COMMISSION.
THE FIRST ROW OF SOD SHOULD BE LAID IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO AND BUTTING TIGHTLY AGAINST EACH OTHER. JOINTS SHOULD BE STAGGERED TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH AND TO REDUCE THE CHANCE OF WASHOUTS UNDERNEATH THE SOD. CARE SHOULD BE EXERCISED TO INSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE DRYING OF THE ROOTS. SMALL GAPS OR VOIDS REMAINING AFTER THE SOIL IS LAID SHOULD BE FILLED WITH TOPSOIL.
PROVIDE STRONGLY ROOTED ST AUGUSTINE SOD, NOT LESS THAN 2 YEARS OLD AND FREE OF WEEDS AND UNDESIRABLE NATIVE GRASSES. PROVIDE ONLY SOD CERTIFIED BY THE CROP PEST COMMISSION CAPABLE OF GROWTH WHEN PLANTED (VIABLE NOT DORMANT), AND IN STRIPS OF NOT MORE THAN 18 INCHES WIDE AND 72 INCHES LONG.

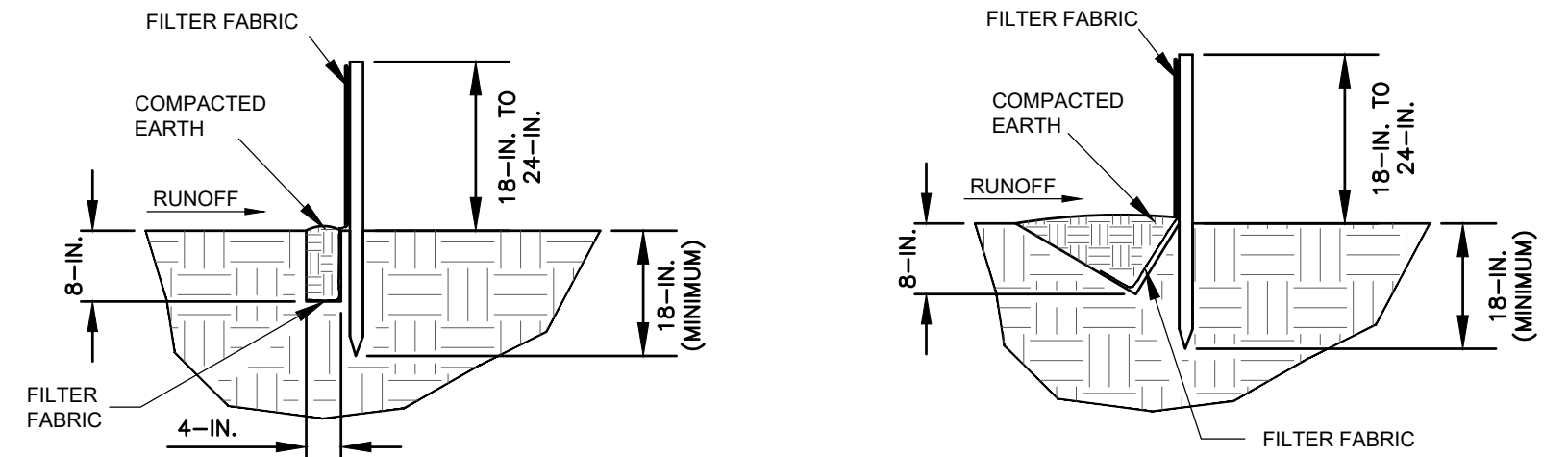
 **SLOPED SODDING DETAIL**
NOT TO SCALE



STAKED SOD INSTALLATION
NOT TO SCALE



SILT FENCE INSTALLATION



FLAT-BOTTOM TRENCH DETAIL

V-SHAPED TRENCH DETAIL

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-FOET, 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:
HAVE A MINIMUM CROSS SECTION AREA OF 17-SQUARE INCHES.

GEOTEXTILE FILTER FABRIC:

GEOTEXTILE 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.

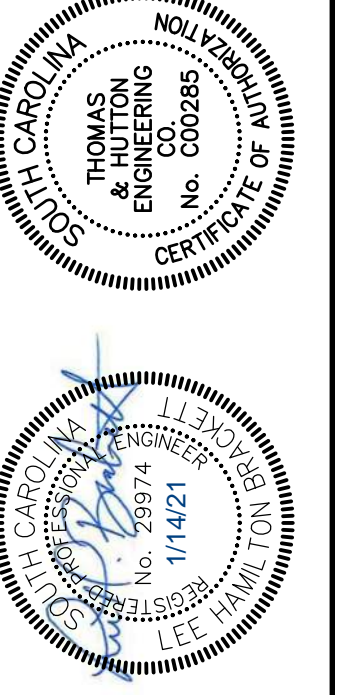
INSTALLATION:

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, WRAP 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 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 CALL 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:

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.

SILT FENCE
NOT TO SCALE



NO.	REVISIONS	BY	DATE

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BERKELEY COUNTY
BERKELEY COUNTY, SC
BERKELEY-DORCHESTER REACH INTERCONNECT
DIV. 1 - EROSION CONTROL DETAILS

JOB NO:	J-26926.0000
DATE:	01/11/21
DRAWN:	JTB
DESIGNED:	LHB
REVIEWED:	PLB
APPROVED:	LHB
SCALE:	N/A

EC1.3