

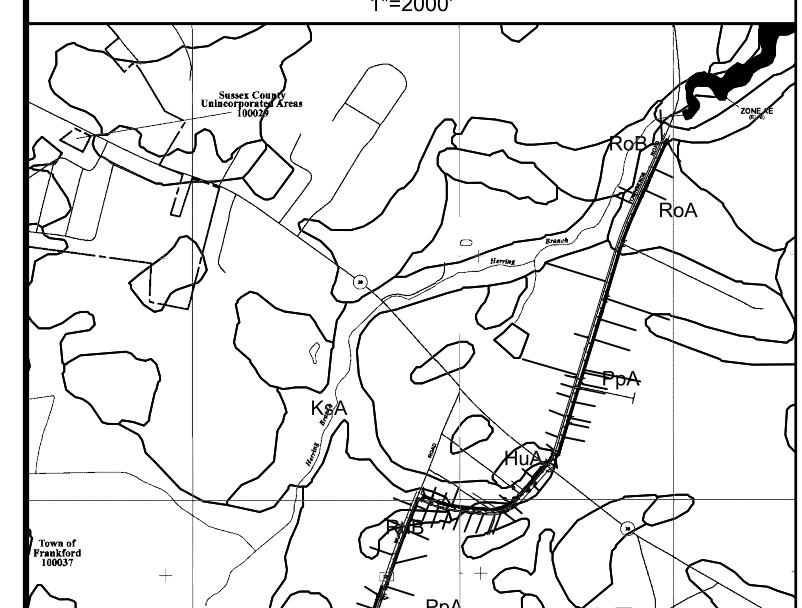
FEMA FLOOD MAP

PANEL#10005C488J (1/6/2005) 1"=2000



NWI WETLAND MAP

1"=2000'



SOILS MAP

1"=2000'

SOILS DATA

LABEL	SOIL NAME	TYPE
HmA	Hammonton loamy sand, 0 to 2 percent slopes	B
HuA	Hurlock loamy sand, 0 to 2 percent slopes	A/D
KsA	Klej loamy sand, 0 to 2 percent slopes	A/D
PpA	Mullica muddy sandy loam, 0 to 2 percent slopes	A/D
RoA	Rosedale loamy sand, 0 to 2 percent slopes	A
RuB	Runcinct loamy sand, 2 to 5 percent slopes	A

PUMP STATION #19 UPGRADE

FRANKFORD TO PINEY NECK FORCE MAIN DIVERSION

BALTIMORE HUNDRED
SUSSEX COUNTY, DELAWARE

DBF PROJECT NO. 0700C004 MARCH 2025

DATA COLUMN

1 TAX MAP ID	4-33-6.15-53.01
2 APPROXIMATE PROJECT CENTER	LATITUDE 38.513317 LONGITUDE -75.224583
3 ENGINEER	DAVIS, BOWEN & FRIEDEL, INC. 1 PARK AVENUE MILFORD, DE 19963 CO. PRES. SHARON K. CRUZ, P.E., AICP PHONE: (302) 424-1441 EMAIL: skc@dbfinc.com
4 DATUM	HORIZONTAL NAD 83 (DE STATE PLANE) EXISTING PROPOSED VERTICAL NAVD 88
6 LAND USE	EXISTING UTILITY PROPOSED UTILITY
9 STATE STRATEGIES MAP	INVESTMENT LEVEL AREA: 2 & 3
11 FLOODPLAIN	THE PROPERTY IS IMPACTED BY THE 100 YEAR FLOODPLAIN AS DETERMINED BY FEMA PANEL 10005C488J, DATED 1/6/2005.
12 TRANSPORTATION IMPROVEMENT DISTRICT (TID)	THE PROPERTY IS NOT LOCATED IN A TRANSPORTATION IMPROVEMENT DISTRICT (TID).
13 GROUNDWATER RECHARGE	ALL OF THE PROPERTY IS NOT LOCATED IN AN AREA OF EXCELLENT GROUNDWATER RECHARGE.
14 WELLHEAD PROTECTION AREA	ALL OF THE PROPERTY IS NOT LOCATED IN A WELLHEAD PROTECTION AREA.
15 WETLANDS	THE PROPERTY IS NOT IMPACTED BY FEDERALLY REGULATED WETLANDS.
16 COASTAL AREA	THE PROPERTY IS NOT WITHIN THE COASTAL AREA.

TOTAL PROPOSED UNITS TO PS 19
FROM VINES CREEK CROSSING:
264 SINGLE FAMILY - 264 EDUs
320 TOWNHOMES - 320 EDUs
1 CLUBHOUSE - 5 EDUs
EXISTING GEORGE WASHINGTON CARVER ACADEMY - 27 EDUs
EXISTING CONNECTIONS - 446 EDUs
EXISTING COUNTRYSIDE HAMLET - 45 EDUs
TOTAL PROPOSED EDUs = 1107



0 1000 2000 3000
1"=1000'

INDEX OF SHEETS	
C-001	TITLE
C-002	LEGEND
C-003	GENERAL NOTES
C-004	KEY MAP
C-101 - C-106	FORCEMAIN SITE PLANS
C-107 - C-108	DETAILS
C-401 - C-403	STORMWATER MANAGEMENT DETAILS
C-501 - C-503	FORCEMAIN PROFILES

PUMP STATION #19 UPGRADE

FRANKFORD TO PINEY NECK FORCE MAIN DIVERSION

SUSSEX COUNTY, DELAWARE

DAVIS
BOWEN &
FRIEDEL, INC.
ARCHITECTS • ENGINEERS • SURVEYORS

BALTIMORE HUNDRED SUSSEX COUNTY, DELAWARE
MILFORD, DELAWARE 410-770-4744
302-424-1441 410-543-2091

TITLE

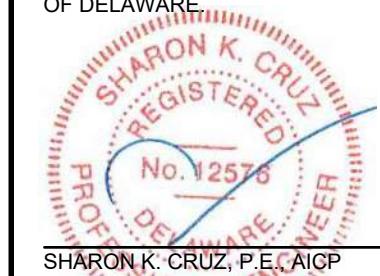
DATE

Dwg. No.

C-001

ENGINEER'S STATEMENT

THE UNDERDINGEN REPORTER STATE THAT I AM A REGISTERED ENGINEER IN THE STATE OF DELAWARE THAT THE INFORMATION SHOWN HEREON HAS BEEN PREPARED UNDER MY SUPERVISION AND TO MY BELIEF REPRESENTS GOOD ENGINEERING PRACTICES AS REQUIRED BY THE APPLICABLE LAWS OF THE STATE OF DELAWARE.



APPROVED
SUSSEX COUNTY ENGINEER

COUNTY ENGINEER
AGREEMENT #1298

DATE

12-17-2025

DATE

C-001

MANMADE ROADSIDE FEATURES			
FEATURE DESCRIPTION	EXISTING	PROPOSED	ID
BOLLARD	○	○	
CURB, TYPE 1 AND 3	=====	=====	(C)
CURB OPENING WITH SIDEWALK		□	(SW)
FENCE - CHAINLINK OR STRANDED	—x—x—x—x—	—□—□—□—	(F)
LAMP AND POST - RESIDENTIAL	○	○	
MAILBOX	MB	MB	
TRAFFIC SIGN AND POST	▽	●→	
CURB OPENING		□	(C)

DRAINAGE FEATURES			
FEATURE DESCRIPTION	EXISTING	PROPOSED	ID
FLARED END SECTION		□	(FE)
DRAINAGE MANHOLE	○	○	(DH)
DRAINAGE INLET	□	□	(DI)
DIRECTIONAL FLOW ARROW	→	→	
RIPRAP	□	□	(RR)
DRAINAGE PIPE	=====	=====	(P)
UNDERDRAIN	→→→	→→→	(UD)
UNDERDRAIN OUTLET	→→→	→→→	(UDO)
SAFETY END SECTION	□	□	(SES)
BIOFILTRATION SWALE	—x—BFS—x—		
DITCH CENTERLINE	—o—o—o—o—	—x—x—x—x—	
DRAINAGE JUNCTION BOX	J.B.	□	(JB)
DRAINAGE PIPE HEADWALL	□	□	

IDENTIFIERS			
FEATURE DESCRIPTION	ID		
ABANDON BY CONTRACTOR	(AB) C		
ABANDON BY OTHERS	(AB) O		
ADJUST BY CONTRACTOR	(A) C		
ADJUST BY OTHERS	(A) O		
CONVERT TO JUNCTION BOX	(CJB)		
CONVERT TO DRAINAGE MANHOLE	(CMH)		
DO NOT DISTURB	(DND)		
PEDESTRIAN CONNECTION/TYPE	(PC)		
PEDESTRIAN CONNECTION/TYPE WITHOUT DETECTABLE WARNING SYSTEM	(PC-N)		
RELOCATE BY CONTRACTOR	(RL) C		
RELOCATE BY OTHERS	(RL) O		
REMOVE BY CONTRACTOR	(RM) C		
REMOVE BY OTHERS	(RM) O		

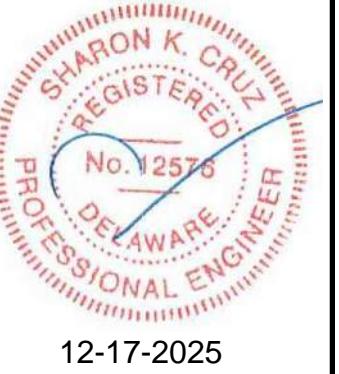
UTILITY FEATURES			
FEATURE DESCRIPTION	EXISTING	PROPOSED	
ELECTRIC - UNDERGROUND	—UG—	—UG—	
ELECTRIC MANHOLE	○		
ELECTRIC METER	EM		
ELECTRIC TRANSFORMER	□	□	
GAS - UNDERGROUND	—UGG—UGG—UGG—	—UGG—UGG—UGG—	
GAS MANHOLE	○		
GAS METER	G.M.		
LIGHT POLE		○	
GAS VALVE	G.V.		
RAILROAD TRACKS			
SANITARY MAIN	—EX-SS—	—SS—	
SANITARY SEWER MANHOLE	○	○	
SOIL BORING LOCATION		●	
TELEPHONE TEST POINT	□		
UTILITY POLE GUY WIRE ANCHOR	●→	●→	
UTILITY POLE	○	○	
WATER MAIN			
WATER - FIRE HYDRANT	●—●	—●—●—	
WATER VALVE	○	○	
WATER METER/LATERAL		○	
SANITARY SEWER CLEANOUT/LATERAL	○	—□—	

NATURAL FEATURES			
FEATURE DESCRIPTION	EXISTING	PROPOSED	
HEDGEROW OR THICKET	○○○○○○○○	○○○○○○○○	
SHRUBBERY	○○○○○○○○	*	
TREE - CONIFEROUS	○○○○○○○○	○○○○○○○○	
TREE - DECIDOUS	○○○○○○○○	○○○○○○○○	
TREE LINE	○○○○○○○○	○○○○○○○○	
CONTOUR ELEVATION & LABEL	—33—	—33—	
ELEVATION	44.70 X	21.96 X	

RIGHT-OF-WAY FEATURES			
FEATURE DESCRIPTION	EXISTING	PROPOSED	
PERMANENT EASEMENT	++	++	
PROPERTY LINE	——	——	
RIGHT-OF-WAY BASELINE	1+00	1+00	
RIGHT-OF-WAY LINE			
TAX DITCH RIGHT OF WAY			TAX RW
DELDOT PERMANENT EASEMENT	PE	PE	
TEMPORARY CONSTRUCTION EASEMENT	—TCE—	—TCE—	

SURVEY CONTROL & MONUMENTATION			
FEATURE DESCRIPTION	EXISTING	PROPOSED	
SURVEY BENCHMARK LOCATION		BM#2	
IRON ROD WITH CAP SET		●	
CONCRETE MONUMENT	CMF	□	
IRON PIPE FOUND	IPF	○	
IRON ROD FOUND	IRF	○	

PUMP STATION #19 UPGRADE			
FRANKFORD TO PINEY NECK FORCE MAIN DIVERSION			
DATE: 1 2025-07-22	COMMENTS: SUSSEX COUNTY COMMENTS		
2 2025-09-25			
3 2025-12-04	FORGEMAIN RELOCATION		
Date: MARCH 2025			
Scale: AS NOTED			
Dwn.By: RJL			
Proj.No.: 0700C004			
LEGEND			
Dwg.No.: C-002			



DAVIS BOWEN & FRIEDEL, INC.
ARCHITECTS • ENGINEERS • SURVEYORS
BOSTON, MASSACHUSETTS 02124-1441
WILMINGTON, DELAWARE 19803-2091
302.770.4744 410.543.2091

SUSSEX COUNTY, DELAWARE
PUMP STATION #19 UPGRADE
FRANKFORD TO PINEY NECK FORCE MAIN DIVERSION

DeDOT (SOUTH DISTRICT) UTILITY PLAN NOTES

- PLANS ARE REVIEWED FOR GENERAL CONFORMITY. DeDOT IS NOT RESPONSIBLE FOR ERRORS OR OMISSIONS WITHIN THE PLAN SET. THE UTILITY OWNER IS RESPONSIBLE TO ENSURE ACCURACY OF PLANS AND CONFORMANCE WITH DeDOT STANDARDS.
- MANHOLE TOP SECTIONS WILL BE OFF SET CONE STYLE. ANY MANHOLE LIDS THAT ARE DETERMINED BY DeDOT TO NOT BE IN THE CENTER OF THE LANE SHALL BE ADJUSTED PRIOR TO FINAL PAVEMENT PLACEMENT.
- MANHOLE FRAME AND LIDS SHALL BE INITIALLY SET $\frac{1}{2}$ INCH LOW AND ADJUSTED TO FINISH GRADE WITH CONCRETE COLLAR AFTER FINAL PAVEMENT HAS BEEN PLACED.
- CONCRETE COLLARS SHALL BE POURED AROUND MANHOLE FRAME AND LIDS/VALVE BOXES TO FINISH GRADE USING CLASS "A" CONCRETE.
- ALL BACKFILL MATERIAL IN EXISTING/PROPOSED ROADWAY SHALL CONFORM TO TYPE "C" BORROW. ALL BORROW BACKFILL SHALL BE COMPAKTED TO 95% USING ASHTO T99 STANDARD FOR TESTING.
- GABC PLACED SHALL BE COMPAKTED TO 98%.
- COMPACTON TESTING SHALL BE PERFORMED EVERY 100' AND TESTING SHALL BE TAKEN ON EACH LIFT OF MATERIAL PLACED. (WHEN UTILITY IS IN THE ROADWAY)
- TAR CHIP/HOT MIXES ROADS: TRAVEL WAY PAVEMENT DISTURBED SHALL BE RESTORED AT THE END OF THE DAY PRIOR TO REOPENING TO TRAFFIC. HOT MIX SHALL PLACE PER TEMP PATCHING DETAIL 6" GABC AND 2" TYPE "C" HOT MIX. HOT MIX/CONCRETE DRIVEWAYS SHALL BE IN TRM AT THE END OF THE DAY. IF TRENCH IS WITHIN 6 FT. OF A SHOULDER BUTT JOINT, EXTEND TOP COAT TO JOINT. HOT JOINT SEAL ALL PAVING PATCHES.
- TAR CHIP/HOT MIXES SHOULDERS: SHOULDERS DISTURBED MAY BE LEFT IN GABC TO FINISH GRADE OVERNIGHT BUT SHALL BE CLOSED USING APPROPRIATE SIGNING AND DRUMS. TEMP PAVEMENT SHALL BE PLACED FOR SHOULDERS AT THE END OF EACH WORK WEEK.
- IF THE REMAINING PORTION OF HOTMIX BETWEEN THE PIPE TRENCH EXCAVATION AND EDGE OF PAVEMENT IS LESS THAN 3' THE REMAINING SECTION SHALL BE REMOVED AND REPAVED AS PART OF THE FULL DEPTH PAVING RESTORATION.
- ALL AREAS DISTURBED OUTSIDE OF THE PAVEMENT SHALL BE GRADED EACH DAY TO ENSURE POSITIVE DRAINAGE AND SHALL BE PERMANENTLY RESTORED AT THE END OF EACH WEEK.
- ALL TEMPORARY HOT MIX SHALL BE PLACED TO PROVIDE A SMOOTH RIDABLE SURFACE TO DeDOT STANDARDS.
- A SAFETY EDGE IS REQUIRED ON ALL HOT MIX PLACED.
- ANY STRIPING DISTURBED SHALL BE PLACED AT THE END OF THE DAY PRIOR TO OPENING TO TRAFFIC.
- PROOF ROLL OF GABC SHALL BE PERFORMED USING A LOADED 10 WHEELER PRIOR TO PLACEMENT OF HOT MIX.
- ALL MATERIALS AND WORKMANSHIP WITHIN THE STATE R/W SHALL BE COMPLETED IN ACCORDANCE WITH CURRENT STATE OF DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, SUPPLEMENTAL SPECIFICATIONS, STANDARD CONSTRUCTION DETAILS, UTILITY MANUAL, SPECIAL PROVISIONS AND DESIGN MEMORANDUMS.
- THERE IS A ONE YEAR WARRANTY ON ALL EARTH WORK AND CONCRETE. A THREE YEAR WARRANTY ON ALL HOT MIX INCLUDING SUBBASE/SUBGRADE ISSUES WITHIN THE PAVEMENT AREAS. WARRANTY DOES NOT START UNTIL ALL WORK IS COMPLETED AND A STAND OF GRASS HAS BEEN ESTABLISHED TO DeDOT STANDARDS AND A ACCEPTANCE LETTER HAS BEEN ISSUED.
- ALL DISTURBED AREAS WITHIN THE STATE RIGHT-OF-WAY, BUT NOT IN THE PAVEMENT, SHALL BE TOP-SOILED (6" MINIMUM), FERTILIZED, SEEDED AND MULCHED. IF SOD IS USED NEXT TO SIDEWALK OR SHARED-USE PATH, CONTRACTOR SHALL GRADE TOPSOIL ADJACENT TO THE SIDEWALK OR SHARED-USE PATH PRIOR TO PLACEMENT OF SOD TO ENSURE THAT SOD IS PLACED FLUSH OR JUST BELOW EDGE OF SIDEWALK OR SHARED-USE PATH TO AVOID WATER PONDING ON THE SIDEWALK OR SHARED-USE PATH.
- A 72-HOUR (MINIMUM) NOTICE SHALL BE GIVEN TO THE DeDOT DISTRICT PERMIT SUPERVISOR PRIOR TO STARTING UTILITY CONSTRUCTION.
- A 48 HOUR NOTICE IS REQUIRED TO BE GIVEN TO THE DeDOT INSPECTOR PRIOR TO MATERIAL RELEASES.
- ALL CONCRETE /HOT MIX MATERIALS SHALL BE RELEASED BY THE INSPECTOR PRIOR TO PLACEMENT.
- MISS UTILITY OF DELAWARE SHALL BE NOTIFIED THREE (3) CONSECUTIVE WORKING DAYS PRIOR TO EXCAVATION, AT 1800-282-8555.
- ALL SIGNING, STRIPING AND MAINTENANCE OF TRAFFIC IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL FOLLOW THE GUIDELINES SHOWN IN THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (DE MUTCD) FOR STREETS AND HIGHWAYS (LATEST EDITION). THE OWNER OR MAINTENANCE CORPORATION SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL SIGNS INSTALLED AS PART OF THIS PROJECT.
- A COPY OF THE UP TO DATE APPROVED CONSTRUCTION DOCUMENTS AND DeDOT APPROVAL LETTERS SHALL BE MAINTAINED ON THE PROJECT SITE AT ALL TIMES AND BE AVAILABLE FOR INSPECTION BY DeDOT PERSONNEL.
- EXISTING UTILITIES ARE SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION. COMPLETENESS OR CORRECTNESS THEREOF IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY COMPANIES INVOLVED IN ORDER TO SECURE THE MOST ACCURATE INFORMATION. IF ANY EXISTING UTILITIES ARE LOCATED OR IDENTIFIED DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY OWNERS AT LEAST 48-HOURS IN ADVANCE. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE AND ANY DAMAGE DONE TO THEM DUE TO HIS/HER NEGLIGENCE SHALL BE IMMEDIATELY AND COMPLETELY REPAVED AT THE CONTRACTOR'S EXPENSE. TO LOCATE EXISTING UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT MISS UTILITY OF DELAWARE (SEE NOTE #5).
- SHOULD UTILITY RELOCATION BE REQUIRED, THE DEVELOPER MUST SUBMIT A UTILITY RELOCATION PLAN FOR DeDOT REVIEW, ALONG WITH CORRESPONDENCE FROM THE UTILITY COMPANIES STATING PRELIMINARY APPROVAL TO THE RELOCATION AND DESIGN OF THE UTILITIES PRIOR TO THE DeDOT PRE-CONSTRUCTION MEETING. NO PHYSICAL CONSTRUCTION CAN OCCUR UNTIL THE UTILITY PLANS ARE APPROVED, THE INDIVIDUAL UTILITY COMPANIES ISSUE FINAL APPROVAL, AND A DeDOT UTILITY PERMIT IS ISSUED TO THE UTILITY COMPANY.
- DESIGN AND INSTALLATION OF ALL PAVEMENT MARKINGS AND STRIPING SHALL BE AS OUTLINED IN THE LATEST VERSION OF THE DE MUTCD. FOR FINAL PERMANENT PAVEMENT MARKINGS EPOXY RESIN PAINT SHALL BE REQUIRED FOR LONG LINE STRIPING. THERMO PLASTIC (EXTRUDED OR PREFORMED MATERIAL) WILL BE REQUIRED ON ASPHALT SURFACES, FOR SHORT LINE STRIPING, I.E. SYMBOLS/LEGENDS. PERMANENT PAVEMENT MARKING TAPE (PER DeDOT APPROVED MATERIALS LIST) WILL BE REQUIRED ON CONCRETE SURFACES, FOR SHORT LINE STRIPING, I.E. SYMBOLS/LEGENDS.
- BREAKAWAY POSTS SHALL BE USED WHEN INSTALLING ALL SIGNS. REFERENCE DeDOT STANDARD CONSTRUCTION DETAIL T-15.
- ALL PROPOSED CLOSED STORM DRAIN SYSTEMS SHALL BE VIDEO INSPECTED, REPAVED AS NECESSARY AND APPROVED PRIOR TO THE INSTALLATION OF FINAL PAVING. IF REPAIRS ARE NEEDED, THE REPAVED PIPE SECTIONS WILL NEED TO BE VIDEO INSPECTED AGAIN BEFORE THE REPAIR CAN BE APPROVED.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT PAVING WITHIN THE STATE OF DELAWARE RIGHT-OF-WAY IS INSTALLED TO THE ELEVATIONS SHOWN AND THAT NO PONDING OF WATER EXISTS AFTER PAVING IS COMPLETE.
- THE DEPARTMENT RESERVES THE RIGHT TO STOP THE CONTRACTOR'S OPERATIONS, IF, IN THE OPINION OF THE DEPARTMENT'S REPRESENTATIVE, THE CONTRACTOR'S OPERATIONS ARE NOT IN COMPLIANCE WITH THE DELAWARE MUTCD, THE SPECIFICATIONS OR THE PLANS OR IF THE CONTRACTOR'S OPERATIONS ARE DEEMED UNSAFE.
- ALL ROADWAY CLOSURES OR LANE CLOSURES BEYOND THOSE SPECIFIED AND APPROVED IN THE PLANS SHALL BE APPROVED BY THE DISTRICT SAFETY OFFICER A MINIMUM OF TWO WEEKS IN ADVANCE OF THE PROPOSED RESTRICTION.
- TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE MAINTAINED IN GOOD CONDITION IN ACCORDANCE WITH THE BROCHURE ENTITLED "QUALITY GUIDELINES FOR TEMPORARY TRAFFIC CONTROL DEVICES", PUBLISHED BY THE AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA). ANY TEMPORARY TRAFFIC CONTROL DEVICES THAT DO NOT MEET THE QUALITY GUIDELINES SHALL BE REMOVED AND REPLACED WITH ACCEPTABLE DEVICES. FAILURE TO COMPLY WILL RESULT IN WORK STOPPAGE.
- THE CONTRACTOR SHALL PROVIDE ALL PROPERTY OWNERS AND RESIDENTS WHO LIVE ADJACENT TO THE WORK ZONE WITH WRITTEN NOTICE, 48 HOURS IN ADVANCE OF THE START OF CONSTRUCTION WORK. THIS NOTIFICATION SHALL INCLUDE THE SCOPE OF WORK, WORKING HOURS, ANTICIPATED START AND COMPLETION DATES, A SUMMARY OF CONSTRUCTION ACTIVITIES WHICH MAY INTERFERE WITH ACCESS TO THE PROPERTY INCLUDING A SCHEDULE AND ACCESS COORDINATION PLAN, CONTRACTOR'S NAME AND ADDRESS AND A DeDOT CONTACT PHONE NUMBER. FAILURE TO GIVE PROPER NOTICE WILL RESULT IN A SUSPENSION OF THE WORK REQUIRING NOTICE UNTIL PROPER NOTICE IS PROVIDED. THE CONTRACTOR SHALL PROVIDE WRITTEN VERIFICATION TO THE ENGINEER THAT THE PROPERTY OWNERS AND RESIDENTS WERE NOTIFIED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE LOCAL 911 CENTER, LOCAL SCHOOLS AND THE DeDOT PUBLIC INFORMATION CENTER OF ALL ROADS AND LANES TO BE CLOSED A MINIMUM OF SEVEN CALENDAR DAYS BEFORE THE CLOSURE.
- THE CONTRACTOR SHALL NOTIFY THE LOCAL 911 CENTER IF ACCESS TO A FIRE HYDRANT IS TEMPORARILY RESTRICTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE TRANSPORTATION MANAGEMENT CENTER IS NOTIFIED EACH AND EVERY DAY WHEN WORK IS BEING PERFORMED IN STATE RIGHT-OF-WAY. THE CONTRACTOR SHALL IDENTIFY THE TYPE OF WORK, ANY LANE(S) OR SHOULDERS CLOSED, THE LENGTH OF TIME FOR WORK, WHEN THE LANE RESTRICTIONS ARE IN PLACE AND WHEN LANE RESTRICTIONS ARE LIFTED, CONTACT PERSON/PHONE NUMBER AND STATE INSPECTOR. THE TRANSPORTATION MANAGEMENT CENTER CAN BE REACHED AT (302) 659-4600.
- AT THE END OF EACH WORKDAY, THE CONTRACTOR SHALL CORRECT ALL VERTICAL DIFFERENCES IN ACCORDANCE WITH TABLE 6G-1 OF THE DELAWARE MUTCD.
- AT THE END OF EACH DAY'S OPERATION AND BEFORE TRAFFIC IS RETURNED TO UNRESTRICTED ROADWAY USE, TEMPORARY PAVEMENT MARKINGS SHALL BE APPLIED IN ACCORDANCE WITH THE DELAWARE MUTCD AND DeDOT'S TEMPORARY PAVEMENT MARKINGS POLICY.
- WHEN SIDE ROADS INTERSECT THE WORK ZONE, ADDITIONAL TRAFFIC CONTROL DEVICES SHALL BE ERECTED INCLUDING PERMANENT WARNING SIGNS.
- ALL STORAGE OF EQUIPMENT AND MATERIAL SHALL COMPLY WITH SECTION 6G.21 OF THE DELAWARE MUTCD.
- ALL FLAGGERS SHALL COMPLY WITH CHAPTER 6E OF THE DELAWARE MUTCD.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS/HER WORK WITH OTHER CONTRACTORS IN THE AREA.
- ALL PERSONS WORKING WITHIN THE STATE RIGHT-OF-WAY SHALL WEAR A MINIMUM OF AN ANSI CLASS II SAFETY VEST MEETING OR EXCEEDING THE ANSI 107-2004 REQUIREMENTS, AS SPECIFIED IN THE DELAWARE
- ALL PAVEMENT MARKINGS THAT ARE NO LONGER IN USE AND CONFLICT WITH TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED AND COMPLETELY OBLITERATED BY A METHOD APPROVED BY THE ENGINEER. PAINTING OVER THE CONFLICTING PAVEMENT MARKINGS WILL NOT BE ACCEPTED AS A METHOD OF REMOVAL.
- WITHIN THE MAINLINE WORK AREA, PERMANENT ADVANCE WARNING SIGNS WITH THE LEGENDS ROAD WORK 1500 FT, ROAD WORK 1000 FT AND ROAD WORK 500 FT SHALL BE INSTALLED IN ADVANCE OF THE WORK AREA IN BOTH DIRECTIONS. AN END ROAD WORK SIGN SHALL BE LOCATED 500 FEET DOWNSTREAM FROM THE WORK AREA. ON INTERSECTING ROADWAYS WITHIN THE PROJECT LIMITS, A ROAD WORK AHEAD SIGN SHALL BE PLACED AT A DISTANCE NOT LESS THAN 500 FEET IN ADVANCE OF THE WORK AREA AND AN END ROAD WORK SIGN SHALL BE LOCATED 500 FEET DOWNSTREAM OF THE WORK AREA. ALL PERMANENT ADVANCE WARNING SIGNS SHALL BE GROUNDED MOUNTED ON TWO NCHRP-350 OR MASH APPROVED BREAKAWAY POSTS AND SHALL BE MOUNTED IN COMPLIANCE WITH THE NCHRP-350 AND MASH STANDARDS. THE SIGN SHALL BE MOUNTED AT A HEIGHT OF 6 FT. FROM THE GROUND SURFACE AND 12 INCHES FROM THE BOTTOM OF THE SIGN. THE USE OF SKID MOUNTED SIGN SUPPORTS IS NOT ALLOWED UNLESS THE CONTRACTOR CAN DEMONSTRATE THAT A UTILITY CONFLICT EXISTS, WHICH SHALL BE VERIFIED BY THE ENGINEER; OR CONCRETE MEDIANES PREVENT THE INSTALLATION OF THE PERMANENT ADVANCE WARNING SIGNS IN THE APPROPRIATE LOCATION.

CIVIL PLAN GENERAL NOTES

- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING TWO WEEKS PRIOR TO THE START OF CONSTRUCTION AND SHALL APPRISE AND COORDINATE DURING ALL PHASES OF CONSTRUCTION:
 - SUSSEX COUNTY ENGINEERING DEPARTMENT 302-855-7730
 - DAVIS, BOWEN & FRIEDEL, INC. 302-424-1441
 - SUSSEX CONSERVATION DISTRICT 302-856-2105
 - DEPARTMENT OF NATURAL RESOURCES, SOUTH DISTRICT PERMITS SUPERVISOR 302-853-1342
 - TIDEWATER UTILITIES, INC. 877-720-9272
 - ARTESIAN WATER COMPANY, INC. 302-453-6930
 - 302-732-9424
- ORIGINAL BOUNDARY AND TOPOGRAPHIC SURVEY WAS PERFORMED BY DAVIS, BOWEN & FRIEDEL, INC. JULY 2024.
- CONTRACTOR SHALL PROVIDE STAKEOUT NECESSARY FOR THE INSTALLATION OF UTILITIES, STORM DRAINS, PAVING AND ALL OTHER SITE WORK INCLUDED IN THESE PLANS. ALL STAKEOUT WORK IS TO BE PERFORMED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF DELAWARE.
- THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY DEVIATION FROM THESE PLANS UNLESS WRITTEN APPROVAL HAS BEEN PROVIDED BY THE ENGINEER.

SANITARY SEWER GENERAL NOTES

- MISS UTILITY OF DELMARA SHALL BE NOTIFIED THREE CONSECUTIVE WORKING DAYS PRIOR TO EXCAVATION, AT 1-800-282-8555.
- CONTRACTOR SHALL PROVIDE STAKEOUT SURVEY NECESSARY FOR THE INSTALLATION OF UTILITY WORK AND APPURTENANCES AS REQUIRED PER THE SUSSEX COUNTY ENGINEERING STANDARDS AND SPECIFICATIONS.
- SANITARY SEWER CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH SUSSEX COUNTY ENGINEERING STANDARDS AND SPECIFICATIONS, AND DETAILS.
- ALL SANITARY SEWER MATERIALS AND APPURTENANCES SHALL MEET OR EXCEED THOSE REQUIRED BY SUSSEX COUNTY ENGINEERING STANDARDS AND SPECIFICATIONS, AND DETAILS.
- USE ONLY SUITABLE GRANULAR MATERIAL APPROVED BY SUSSEX COUNTY ENGINEERING FOR BACKFILLING TRENCHES.
- SANITARY SEWER LATERAL SHALL BE 6" PVC UNLESS OTHERWISE NOTED. SEWER LATERAL SHALL INCLUDE A 6" CLEANOUT, WYE, AND CAP JUST BEHIND THE RIGHT-OF-WAY LINE.
- ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.
- TOP OF MANHOLE ELEVATIONS ARE TOP OF MANHOLE FRAME AND COVER.
- PIPE SPAN LENGTHS ARE MEASURED FROM C/L OF STRUCTURE TO C/L OF STRUCTURE, WHERE APPLICABLE ARE ROUNDED TO THE NEAREST FOOT.
- THE CONTRACTOR SHALL FIELD VERIFY INVERTS AND LOCATION OF EXISTING SANITARY SEWER MAINS OR MANHOLES TO WHICH NEW CONSTRUCTION WILL CONNECT.
- THE SEWER LATERAL SHALL HAVE A MINIMUM COVER OF 3.0 FEET FROM PROPOSED GRADE, AS MEASURED FROM THE TOP OF PIPE.
- THE CONTRACTOR SHALL OPEN ONLY THAT SECTION OF TRENCH OR ACCESS PITS WHICH CAN BE BACKFILLED AND STABILIZED AT THE END OF EACH WORKING DAY. TRENCHES MAY NOT BE LEFT OPEN WITHOUT PERMISSION FROM SUSSEX COUNTY ENGINEERING.
- FINAL APPROVED SET OF PLANS AND SPECIFICATIONS SHALL BE MAINTAINED ON THE JOB SITE. FAILURE TO COMPLY WITH THIS PROVISION SHALL BE CONSIDERED CAUSE TO STOP THE WORK.
- THE CONTRACTOR SHALL MAINTAIN ONE COMPLETE SET OF CONTRACT DRAWINGS ON WHICH HE SHALL NOTE, IN RED, THE ALIGNMENTS AND INVERTS OF ALL UNDERGROUND UTILITIES INSTALLED OR ENCOUNTERED DURING THE PROSECUTION OF THE WORK. ALL DISCREPANCIES BETWEEN THE PLAN LOCATIONS AND ELEVATIONS OF BOTH THE EXISTING AND PROPOSED UTILITIES SHALL BE SHOWN ON THE AS-BUILT DRAWINGS TO BE MAINTAINED BY THE CONTRACTOR IN THE FIELD.
- ROUTINE PERIODIC INSPECTIONS DURING CONSTRUCTION WILL BE PROVIDED BY SUSSEX COUNTY ENGINEERING. THESE INSPECTIONS DO NOT RELIEVE THE CONTRACTOR FROM HIS/HER OBLIGATION AND RESPONSIBILITY FOR CONSTRUCTING A SANITARY SEWER SYSTEM IN STRICT ACCORDANCE WITH SUSSEX COUNTY STANDARDS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL TAKE PRECAUTIONS TO LOCATE PROPERTY LINES, EASEMENTS, AND RIGHT-OF-WAY LINES PRIOR TO CONSTRUCTION AND AVOID CONSTRUCTION ACTIVITIES ON PRIVATE PROPERTY AND/OR RIGHTS OF WAYS WHERE SAID CONSTRUCTION IS PROHIBITED. THE CONTRACTOR MAY CONDUCT CONSTRUCTION ACTIVITIES ON PRIVATE PROPERTY PROVIDED HE HAS OBTAINED PRIOR WRITTEN PERMISSION FROM THE PROPERTY OWNER AND HAS SUBMITTED A COPY OF SAID WRITTEN PERMISSION TO SUSSEX COUNTY ENGINEERING. ANY DISTURBED AREAS BEYOND THE RIGHT-OF-WAY OR EASEMENT LINES SHALL BE RESTORED IMMEDIATELY TO THEIR ORIGINAL CONDITION. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE COST OF ITEMS BID.
- DIFFERING SITE CONDITIONS AND/OR DIFFERING MATERIAL PROPERTIES SHALL REQUIRE SUSSEX COUNTY ENGINEERING APPROVAL OF SPECIAL DESIGN DETAILS PREPARED BY THE DESIGN ENGINEER PRIOR TO INITIATING OR RESUMING CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL ALLOW SUFFICIENT TIME FOLLOWING EXCAVATIONS FOR INSPECTION AND EVALUATION OF EXISTING SOIL SUBGRADE CONDITIONS BY SUSSEX COUNTY ENGINEERING OR HIS/HER DESIGNEE. SUSSEX COUNTY ENGINEERING SHALL INSPECT ALL SUBGRADES AFTER EXCAVATION IS PRIOR TO CONSTRUCTION. IF THE EXISTING SOIL SUBGRADE CONDITIONS AND THE SUBGRADE CONDITIONS ARE NOT SUITABLE FOR CONSTRUCTION, IN THE EVENT THE SOIL BEARING CAPACITY IS LESS THAN THE MINIMUM DESIGN VALUE, THE SUSSEX COUNTY ENGINEER SHALL CAUSE AFFECTED CONSTRUCTION TO CEASE AND SHALL NOTIFY THE DESIGN ENGINEER FOR RE-DESIGN TO ACCOMMODATE THE REDUCED SOIL BEARING CAPACITY.
- IN THE EVENT THE SUBGRADE CONDITION IS UNSTABLE, DUE TO UNSUITABLE MATERIALS AND/OR GROUNDWATER INFILTRATION INTO THE SURROUNDING SOILS, AS DETERMINED BY SUSSEX COUNTY ENGINEERING, THE CONTRACTOR SHALL, AS DIRECTED BY THE SUSSEX COUNTY ENGINEER, REMOVE THE UNSUITABLE MATERIAL AND FILL WITH SUITABLE APPROVED GRANULAR FILL MATERIAL.
- SEWER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM WATER MAINS. SEWER CROSSING WATER MAINS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 18" TO OUTSIDE OF PIPES. IF AN 18" CLEARANCE CANNOT BE OBTAINED, CONTRACTOR IS TO CONTACT THE DESIGN ENGINEER TO DETERMINE THE APPROPRIATE INSTALLATION (PEE SUSSEX COUNTY ENGINEERING APPROVAL) OF SEWER MAIN AT CLEARANCE CONFLICT. WATER MAINS MAY NEED TO BE DEFLECTED TO MEET THE SEPARATION REQUIREMENTS.
- ALL DUCTILE IRON PIPE (DIP) IS TO BE EPOXY COATED (PROTECTO 401 OR APPROVED EQUAL) DUCTILE IRON PIPE CLASS 52.
- CONTRACTOR TO COORDINATE WITH UTILITY COMPANY TO HOLD POLES WHEN PROPOSED FORCEMAIN IS IN WITHIN 5' OF POLE LOCATION.
- CONTRACTOR SHALL ENSURE THRUST COLLARS ARE ADEQUATELY SIZED TO PREVENT MOVEMENT OR SEPARATION AT JOINTS OF FORCEMAIN.

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PUMP STATION #19 UPGRADE

FRANKFORD TO PINEY NECK FORCE MAIN DIVERSION

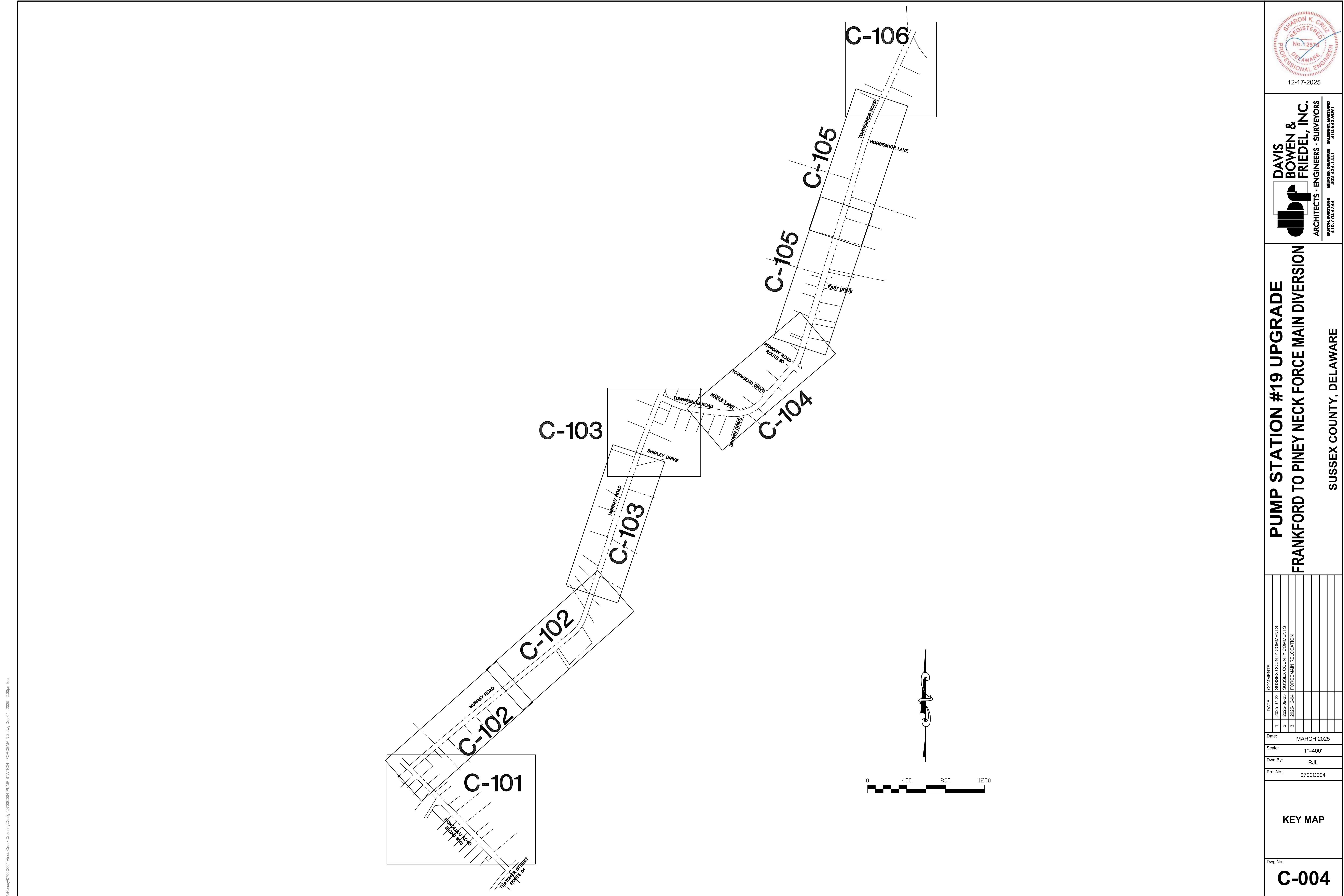
SUSSEX COUNTY, DELAWARE

DATE	COMMENTS
1	SUSSEX COUNTY COMMENTS
2	FORCEMAIN RELOCATION
3	

MARCH 2025
AS NOTED
RJL
0700C004
GENERAL NOTES
C-003



12-17-2025



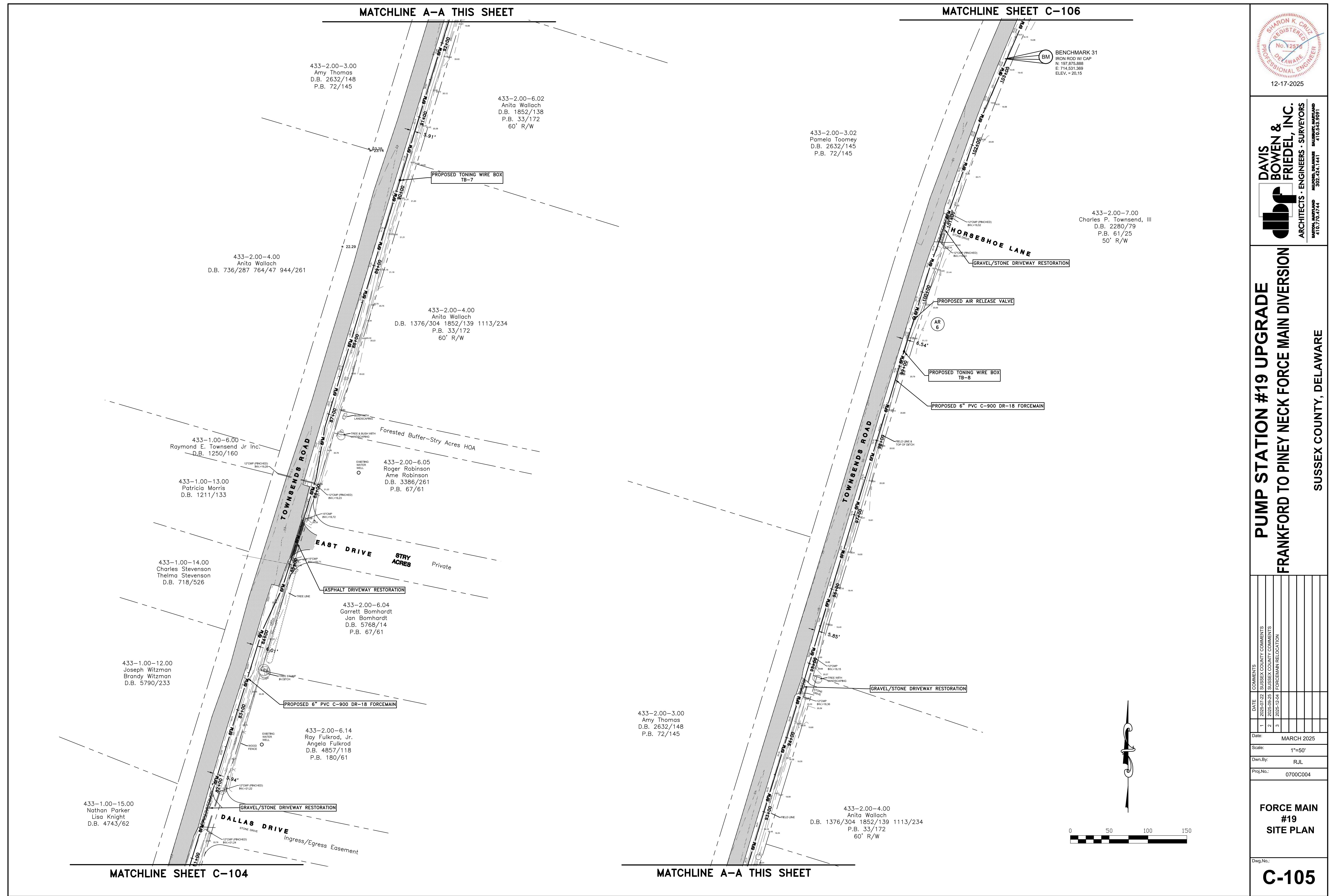
SHARON K. CRUZ
REGISTERED
PROFESSIONAL ENGINEER
No. 12575
DELAWARE

12-17-2025

DAVIS BOWEN &
FRIEDEL, INC.
ARCHITECTS • ENGINEERS • SURVEYORS

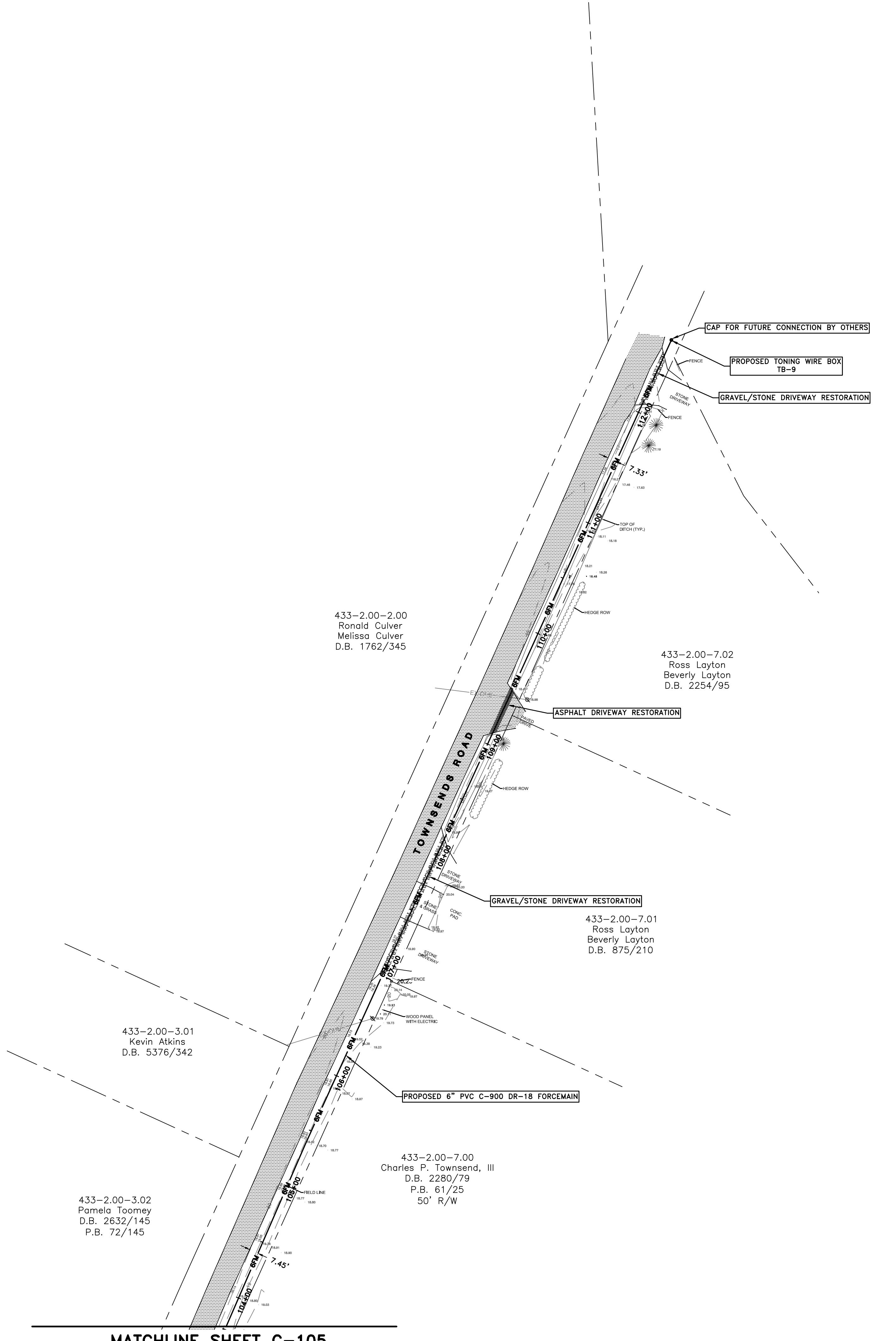
WILMINGTON, DELAWARE 302.424.1441
BALTIMORE, MARYLAND 410.543.2091
410.770.4744

MARCH 2025
1"=400'
R.J.L.
0700C004
0700C004



SHARON K. CRUZ
REGISTERED
No. 12570
PROFESSIONAL ENGINEER
DELAWARE

12-17-2025



PUMP STATION #19 UPGRADE
FRANKFORD TO PINEY NECK FORCE MAIN DIVERSION

DAVIS BOWEN & FRIEDEL, INC.
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dbf
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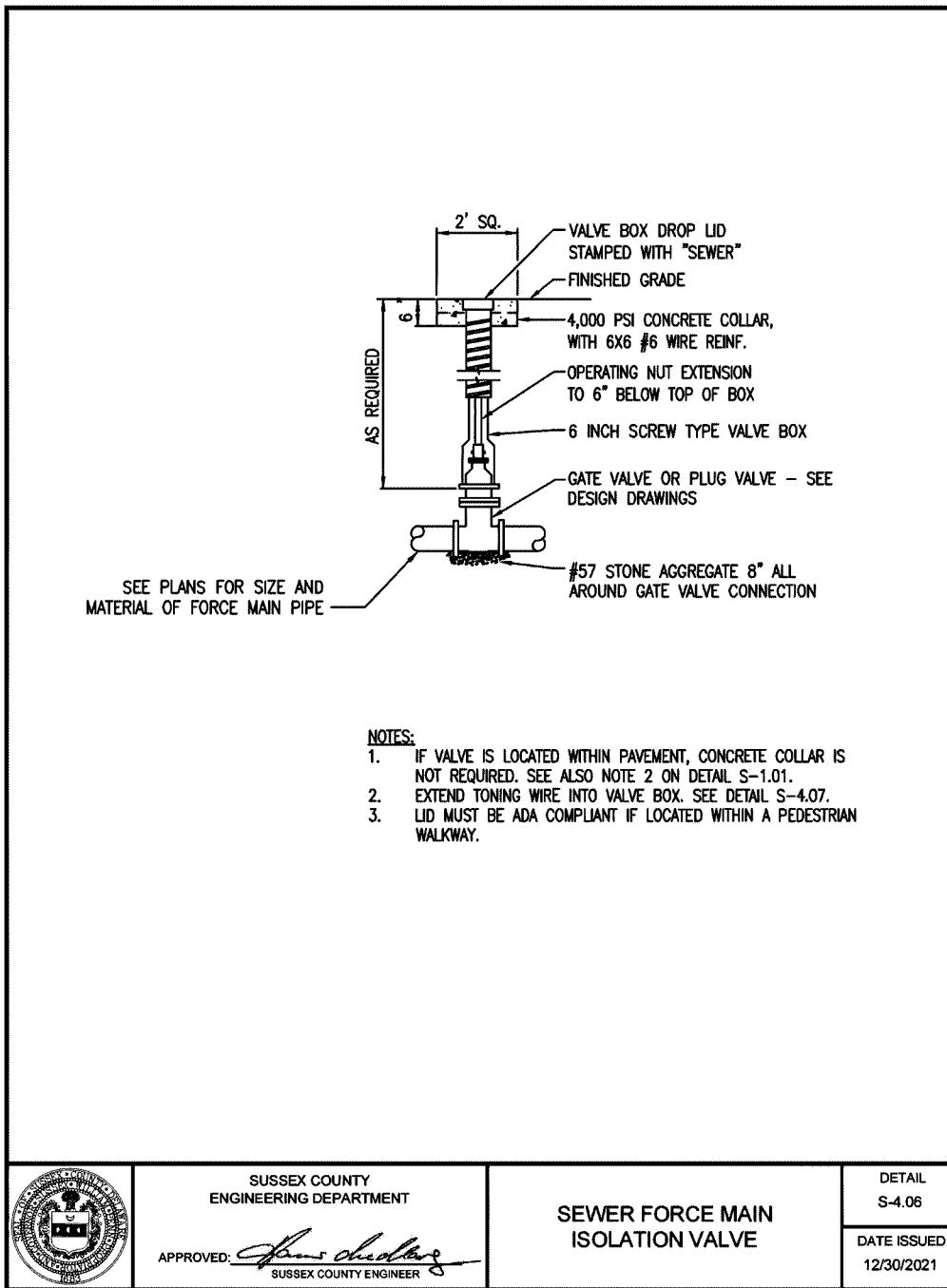
SUSSEX COUNTY, DELAWARE

COMMENTS	
Date: 1 2025-07-22	SUSSEX COUNTY COMMENTS
Date: 2 2025-09-05	
Date: 3 2025-12-04	FORCEMAIN RELOCATION
Scale: 1"=50'	
Dwn.By: RJL	
Proj.No.: 0700C004	
MARCH 2025	
Dwg.No.: C-106	

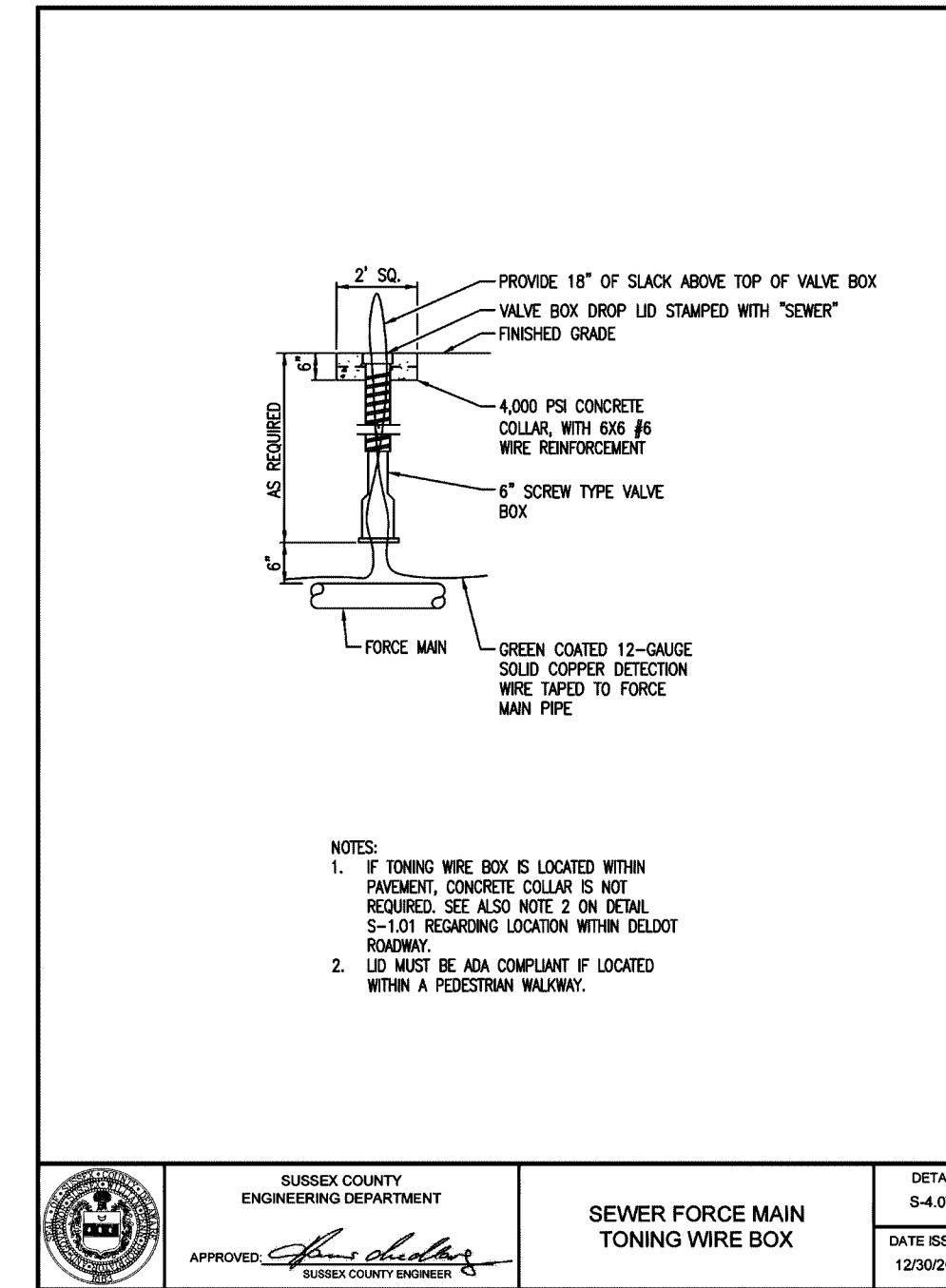
**FORCE MAIN
#19
SITE PLAN**

Dwg.No.:

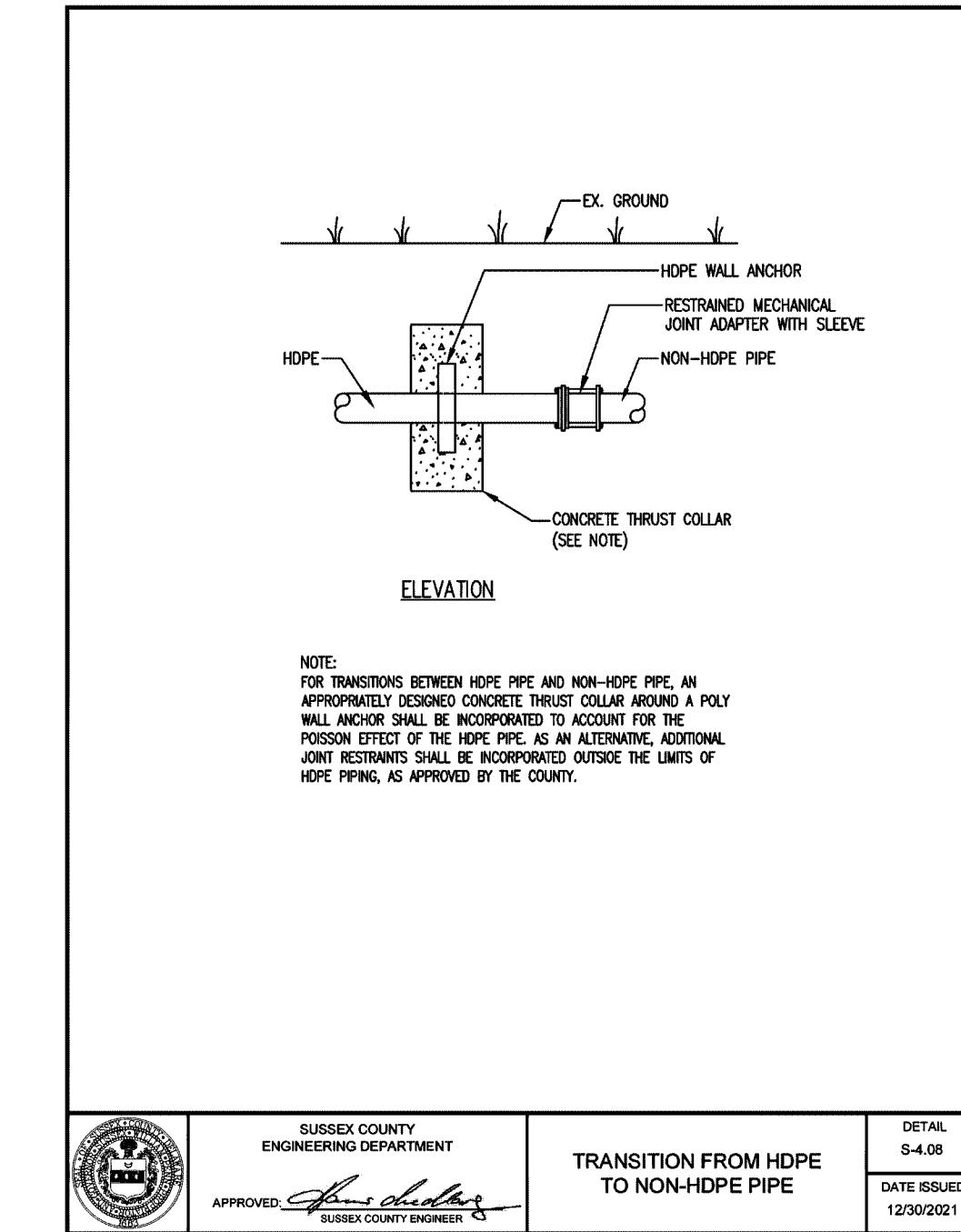
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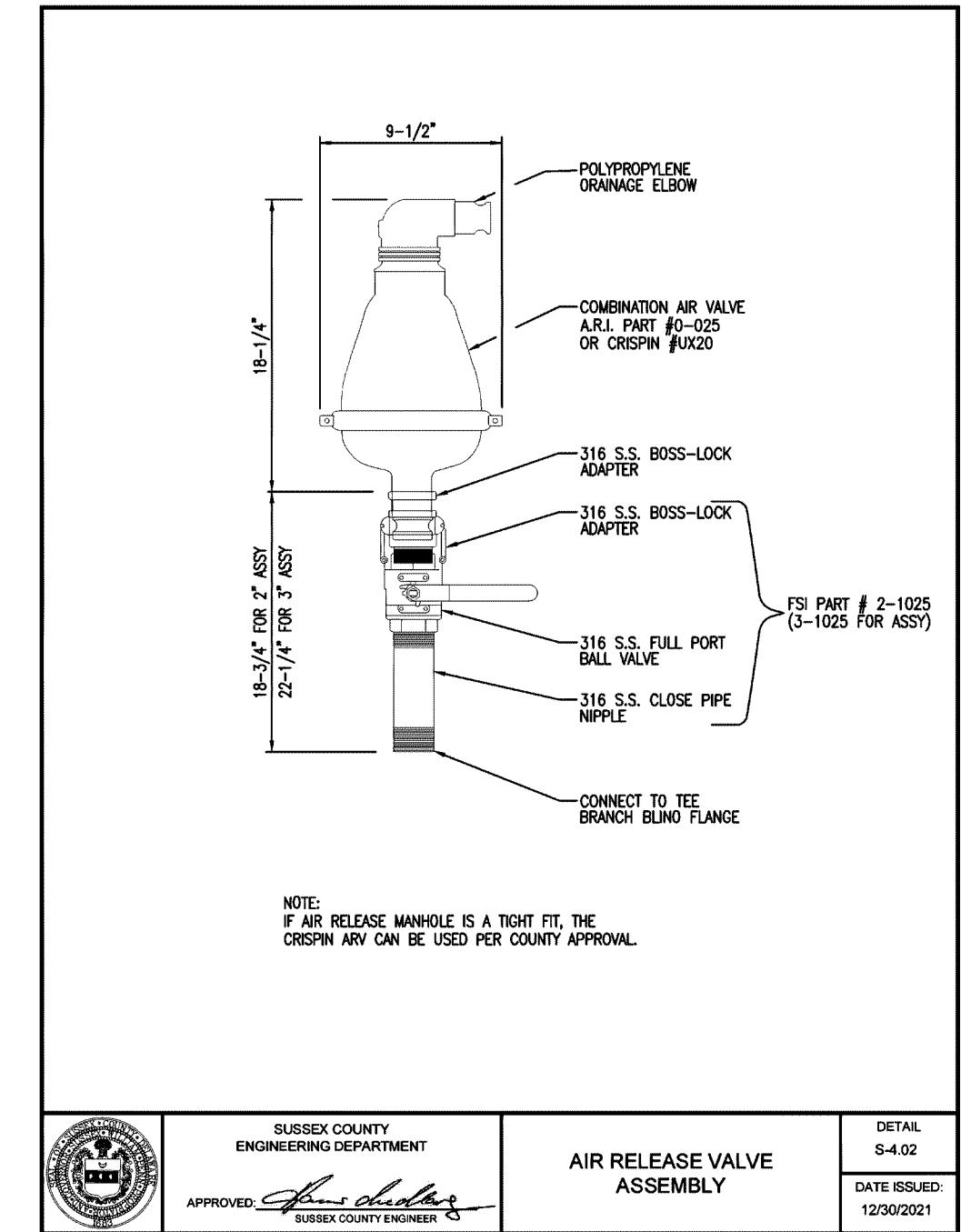
SUSSEX COUNTY
ENGINEERING DEPARTMENT
APPROVED: *John D. Miller*
DETAIL S-4-06
DATE ISSUED: 12/30/2021



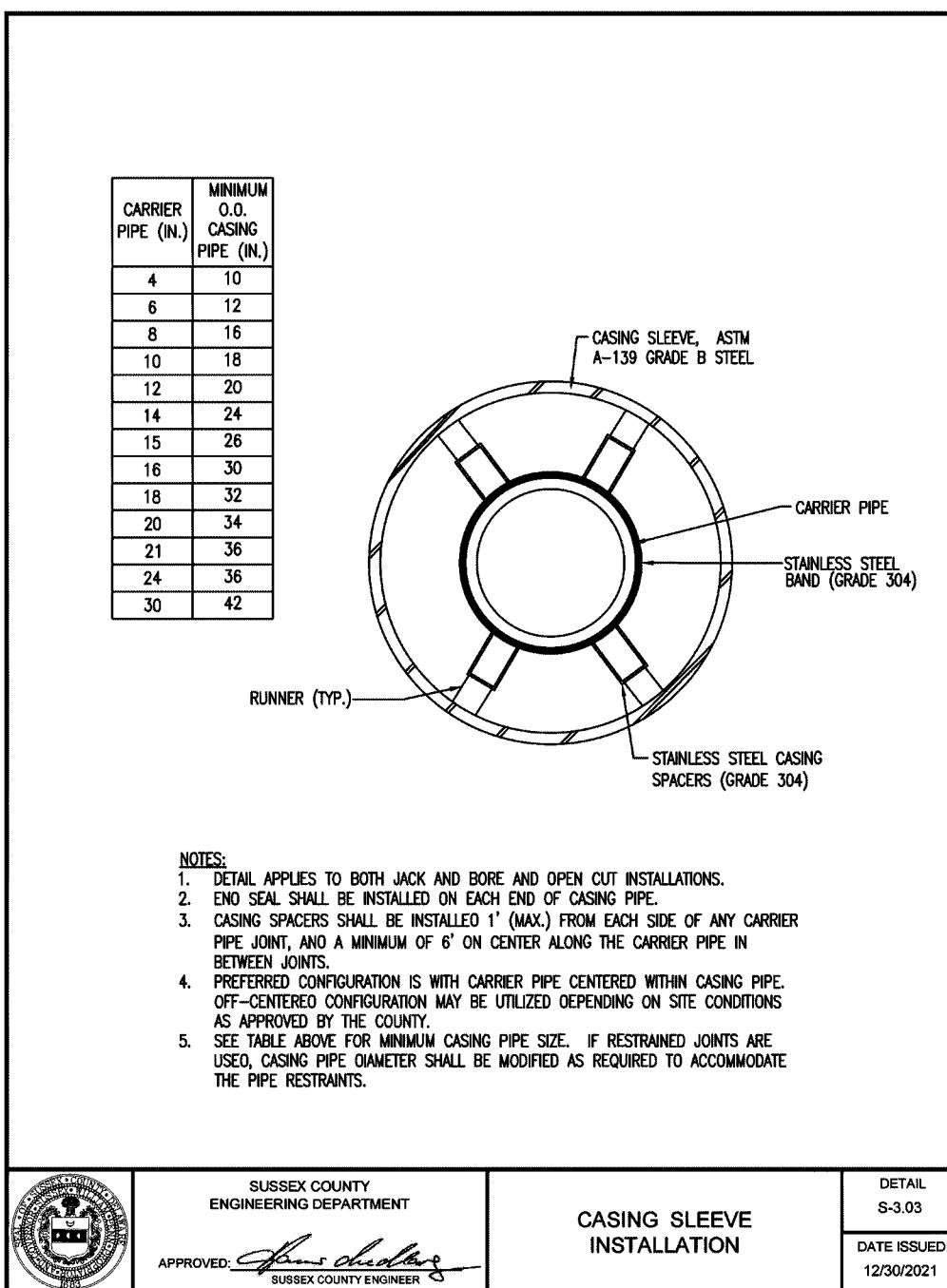
SUSSEX COUNTY
ENGINEERING DEPARTMENT
APPROVED: *John D. Miller*
DETAIL S-4-07
DATE ISSUED: 12/30/2021



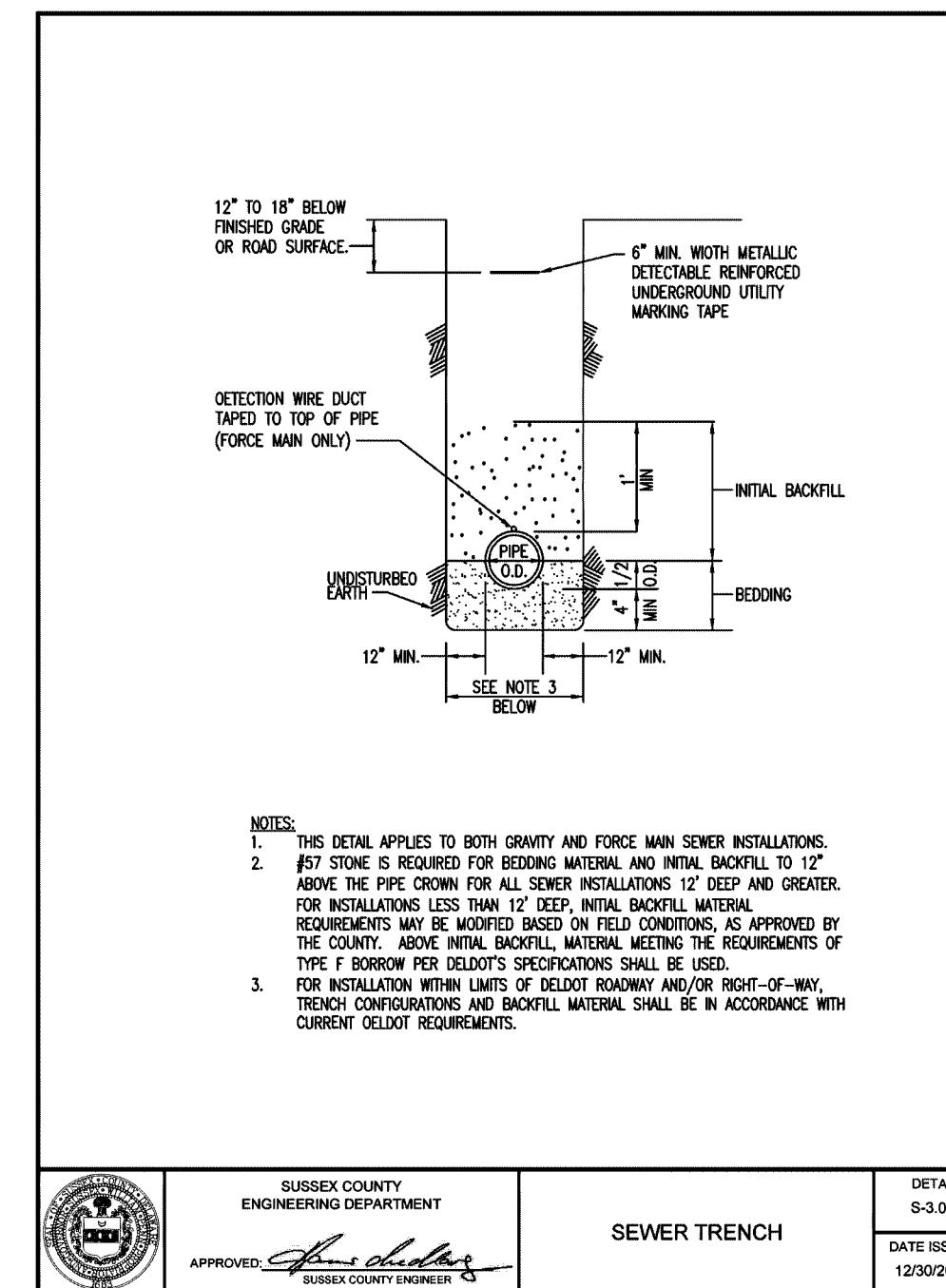
SUSSEX COUNTY
ENGINEERING DEPARTMENT
APPROVED: *John D. Miller*
DETAIL S-4-08
DATE ISSUED: 12/30/2021



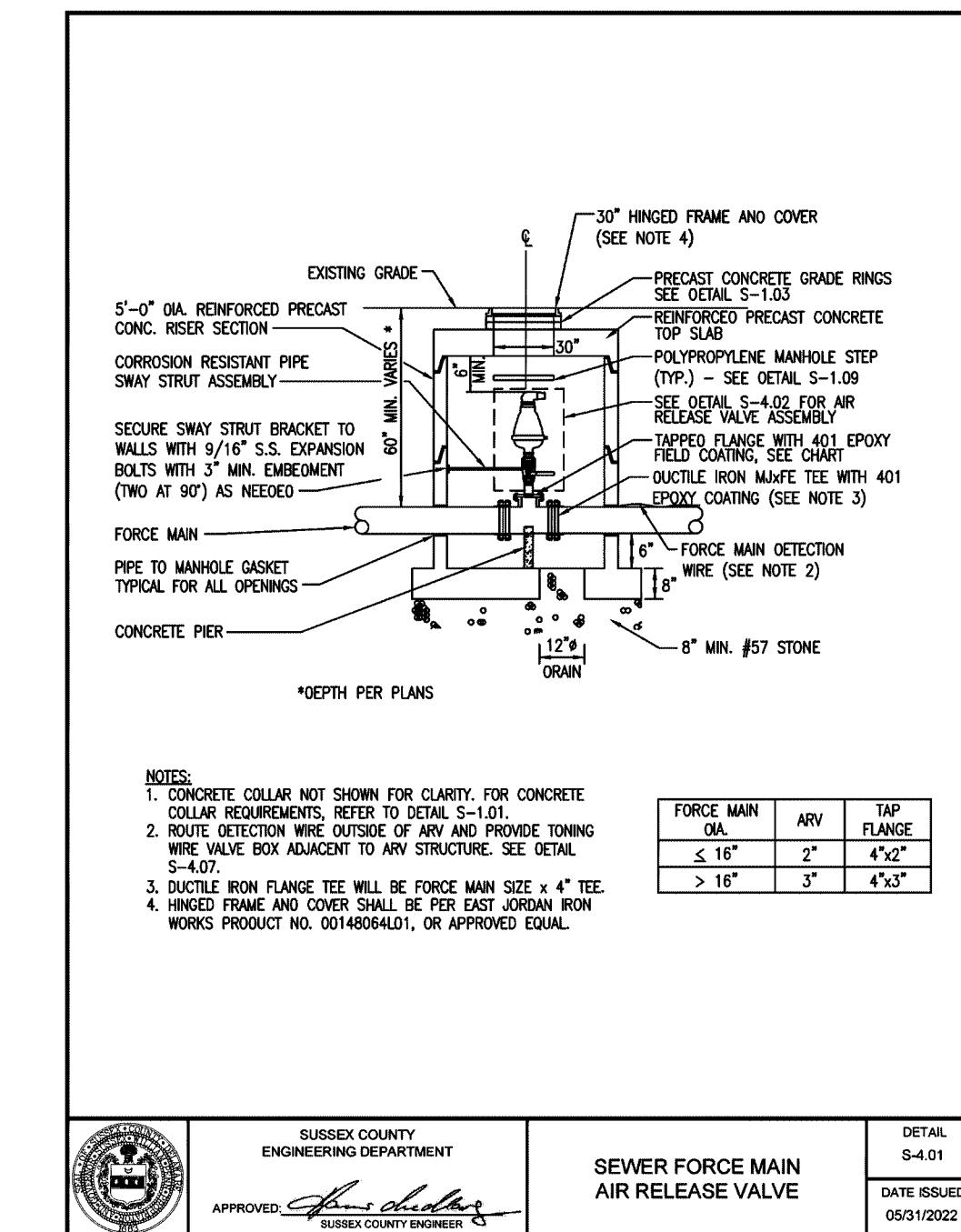
SUSSEX COUNTY
ENGINEERING DEPARTMENT
APPROVED: *John D. Miller*
DETAIL S-4-02
DATE ISSUED: 12/30/2021



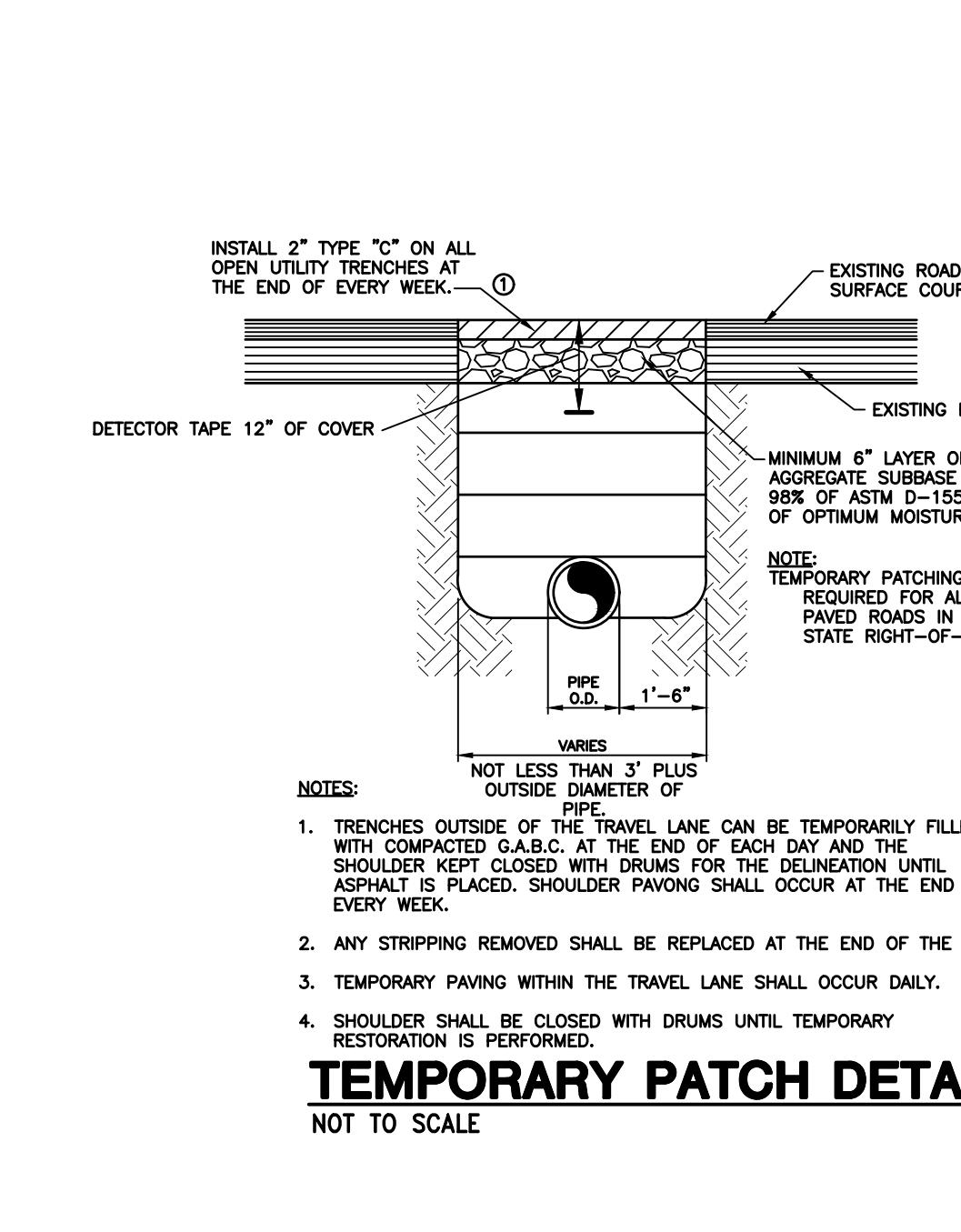
SUSSEX COUNTY
ENGINEERING DEPARTMENT
APPROVED: *John D. Miller*
DETAIL S-3-03
DATE ISSUED: 12/30/2021



SUSSEX COUNTY
ENGINEERING DEPARTMENT
APPROVED: *John D. Miller*
DETAIL S-3-01
DATE ISSUED: 12/30/2021

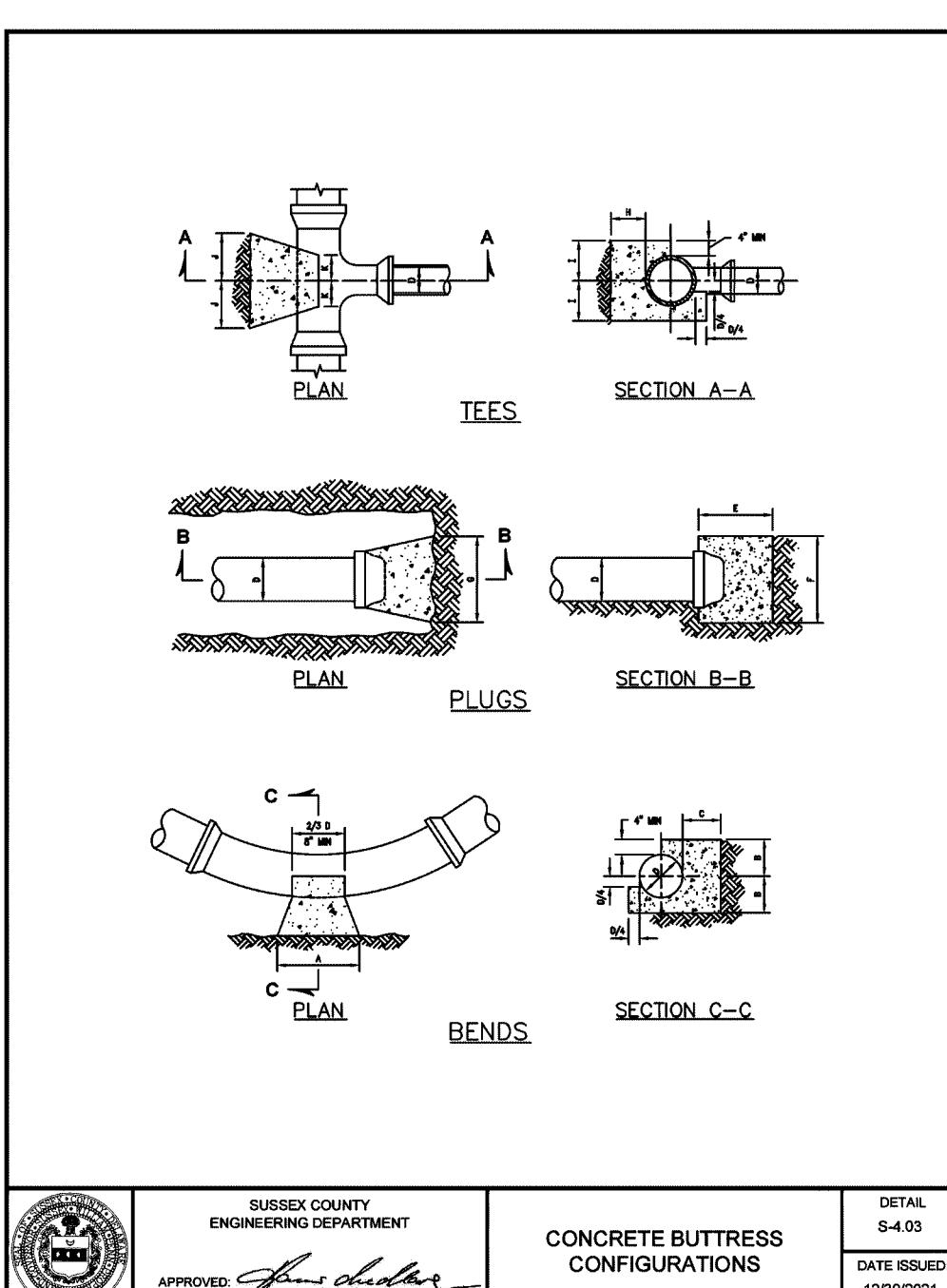


SUSSEX COUNTY
ENGINEERING DEPARTMENT
APPROVED: *John D. Miller*
DETAIL S-4-01
DATE ISSUED: 05/31/2022

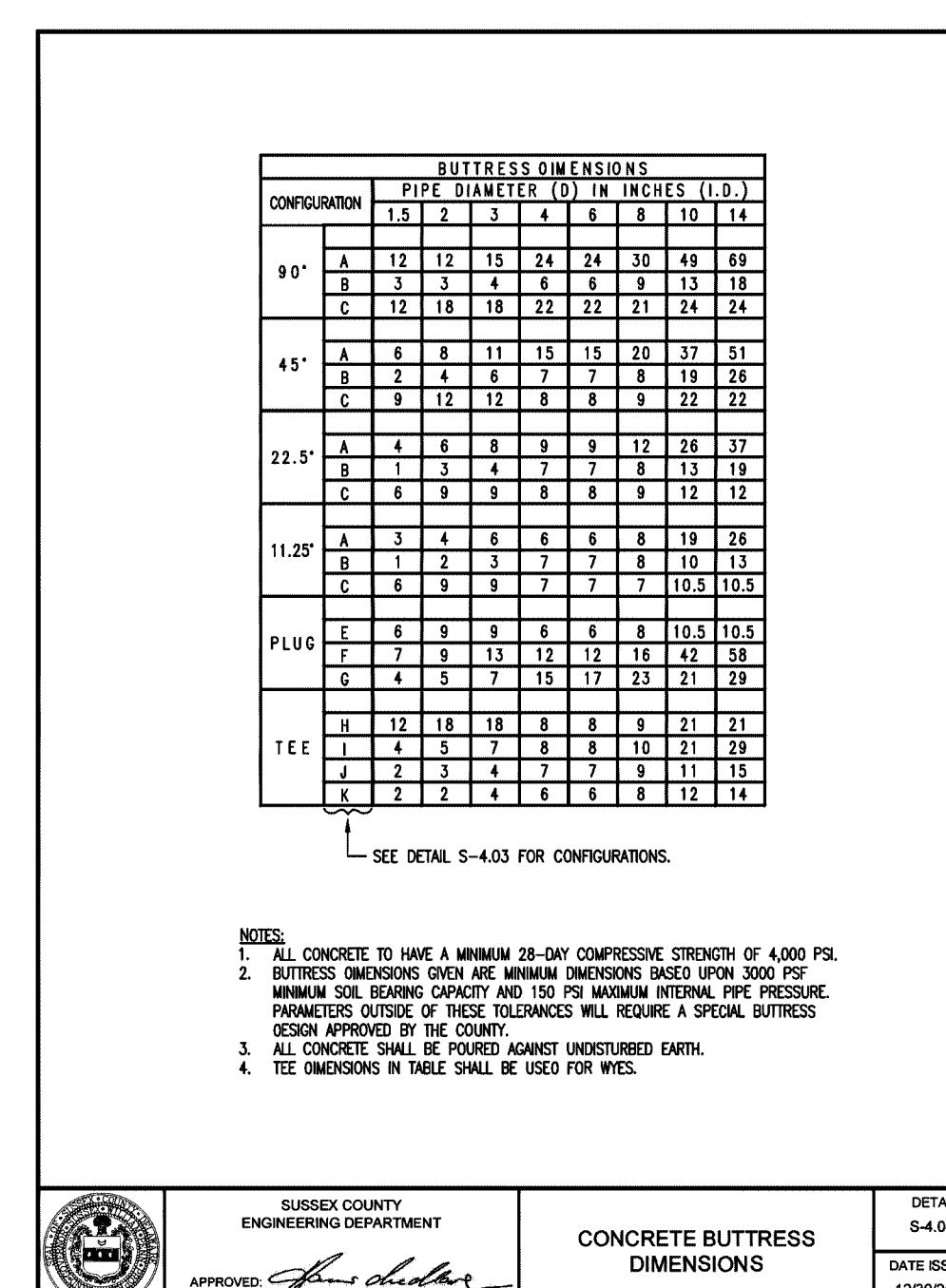


NOT TO SCALE
NOTES:
1. TRENCHES OUTSIDE OF THE TRAVEL LANE CAN BE TEMPORARILY FILLED WITH COMPAKTED G.A.B.C. AT THE END OF EACH DAY AND THE SHOULDER KEPT CLOSED WITH DRUMS FOR THE DELINEATION UNTIL AFTER IT IS PLACED, SHOULDER PAVING SHALL OCCUR AT THE END OF EVERY WEEK.
2. ANY STRIPPING REMOVED SHALL BE REPLACED AT THE END OF THE DAY.
3. TEMPORARY PAVING WITHIN THE TRAVEL LANE SHALL OCCUR DAILY.
4. SHOULDER SHALL BE CLOSED WITH DRUMS UNTIL TEMPORARY RESTORATION IS PERFORMED.

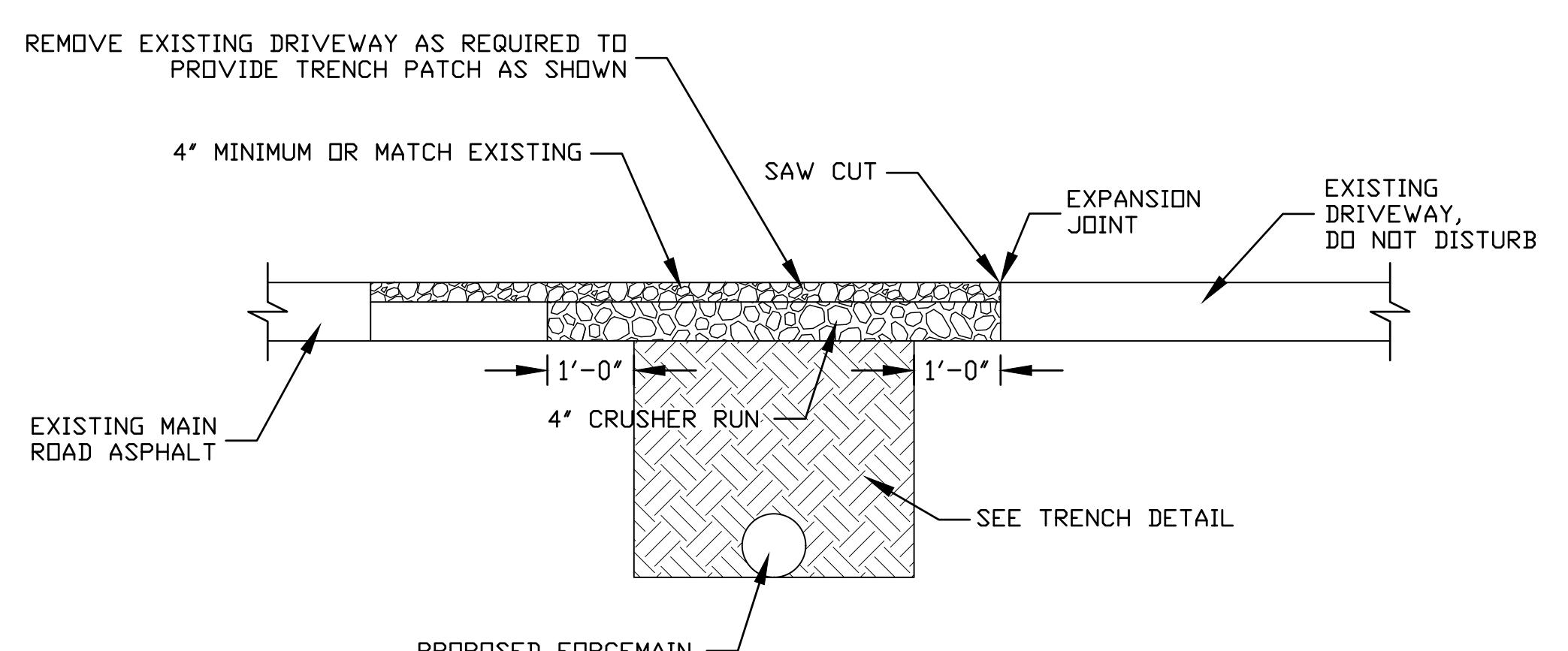
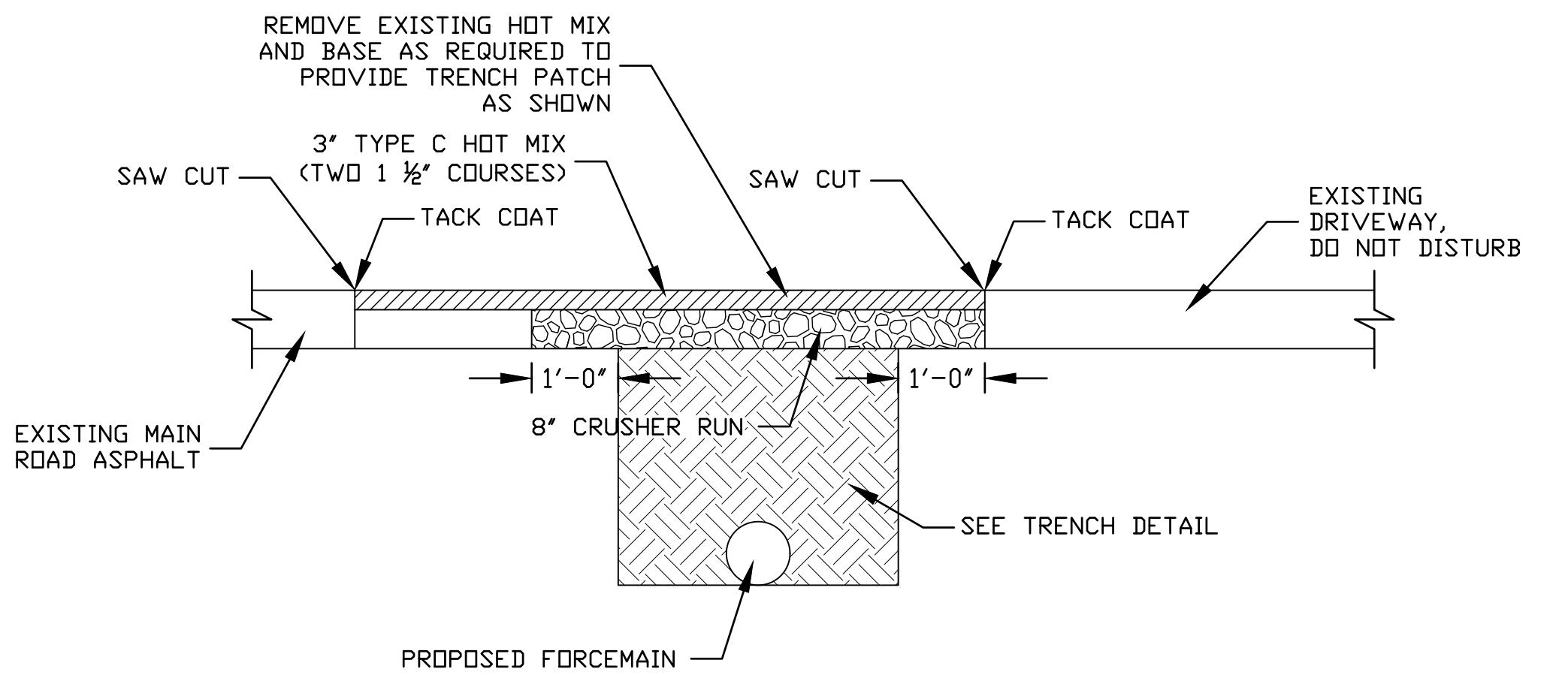
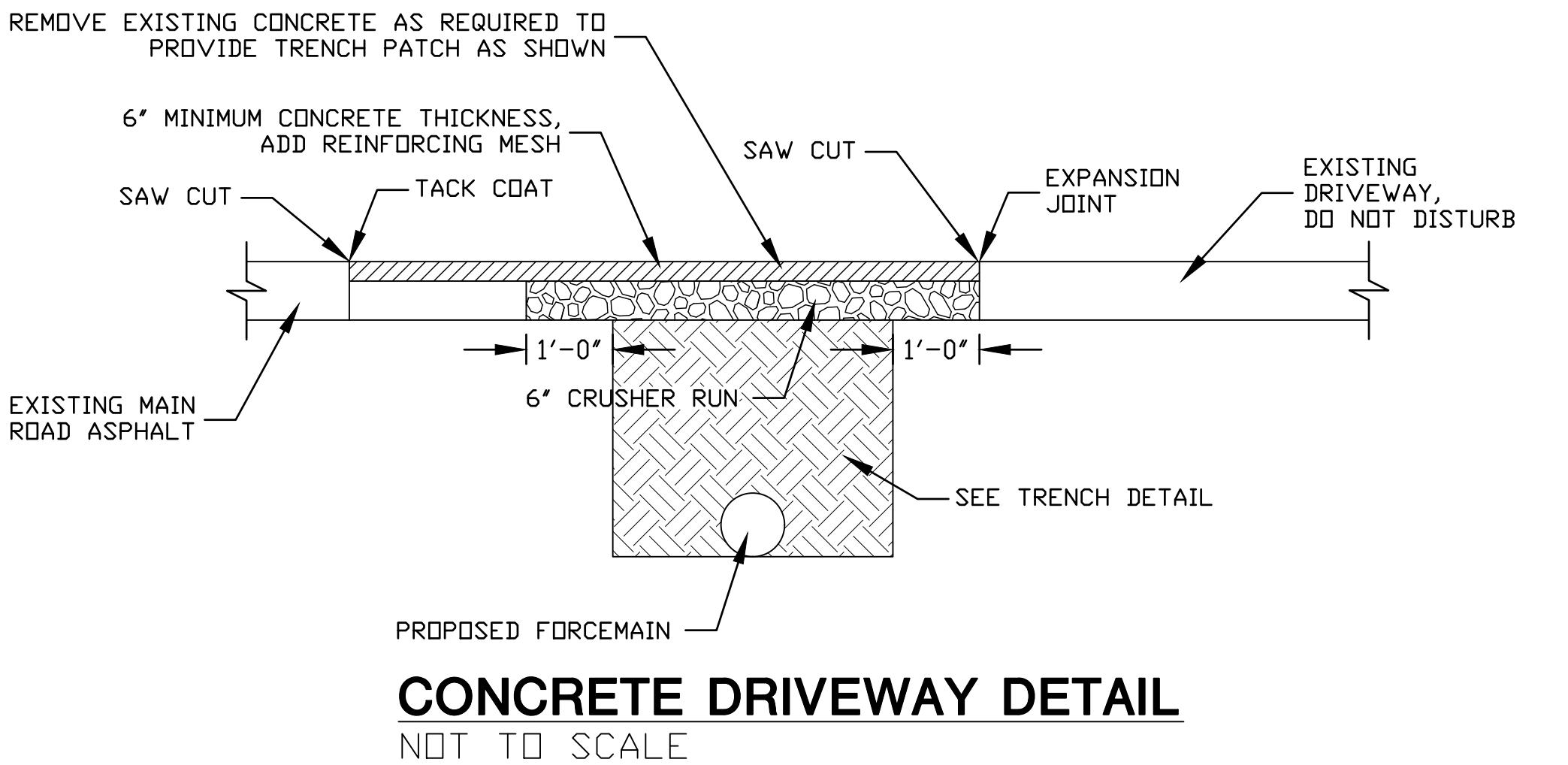
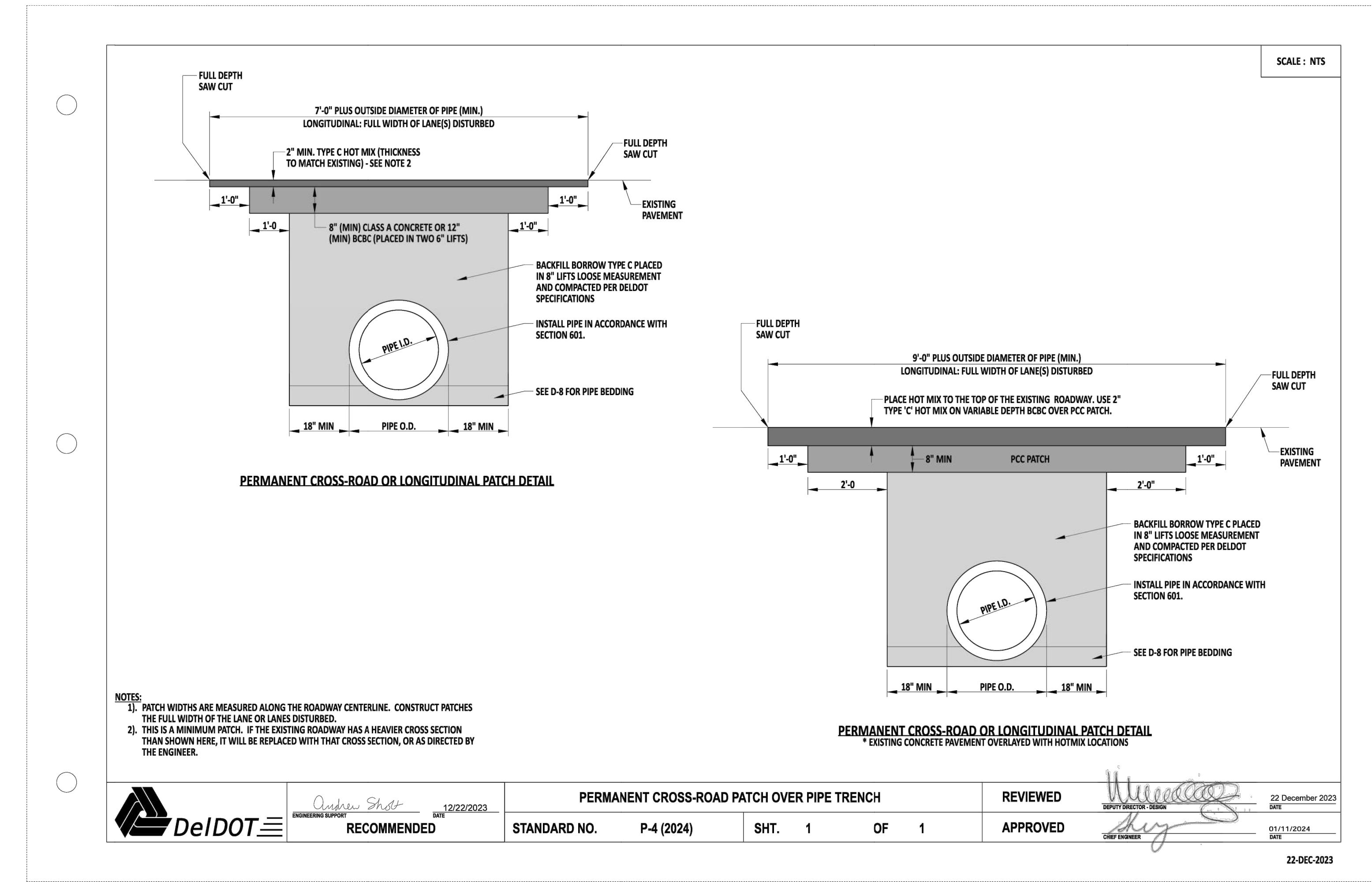
TEMPORARY PATCH DETAIL

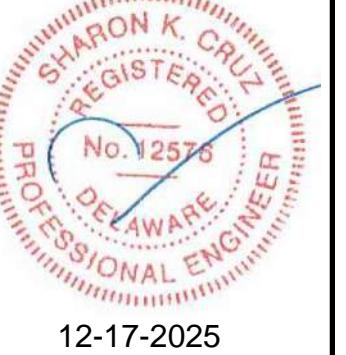


SUSSEX COUNTY
ENGINEERING DEPARTMENT
APPROVED: *John D. Miller*
DETAIL S-4-03
DATE ISSUED: 12/30/2021



SUSSEX COUNTY
ENGINEERING DEPARTMENT
APPROVED: *John D. Miller*
DETAIL S-4-04
DATE ISSUED: 12/30/2021





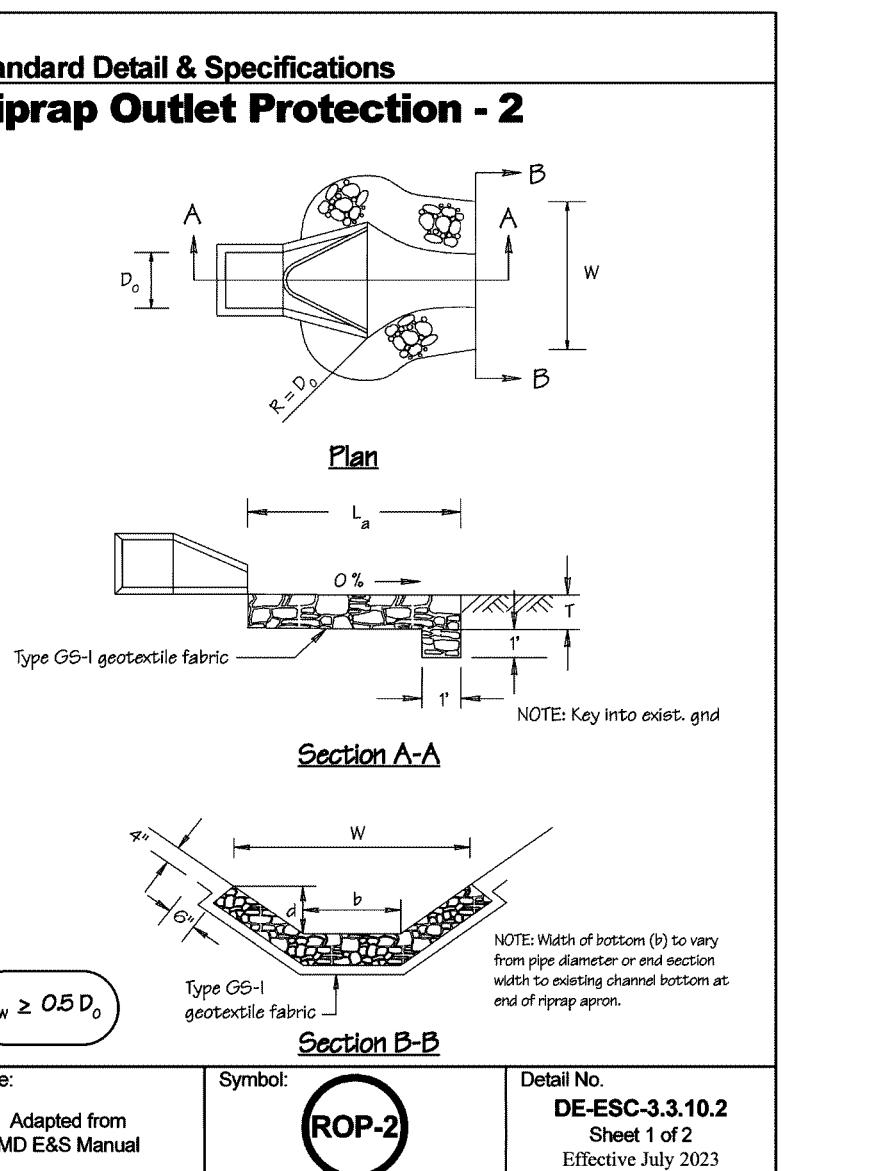
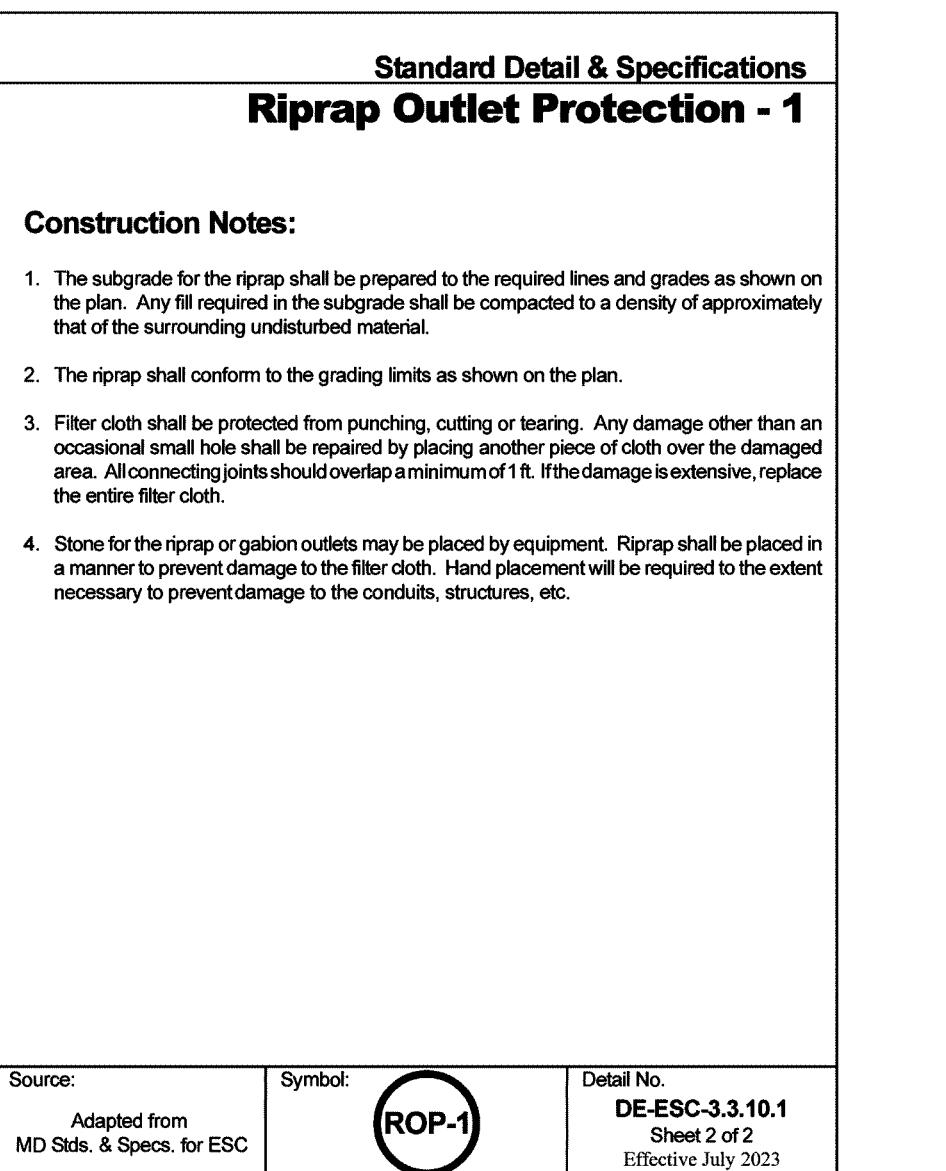
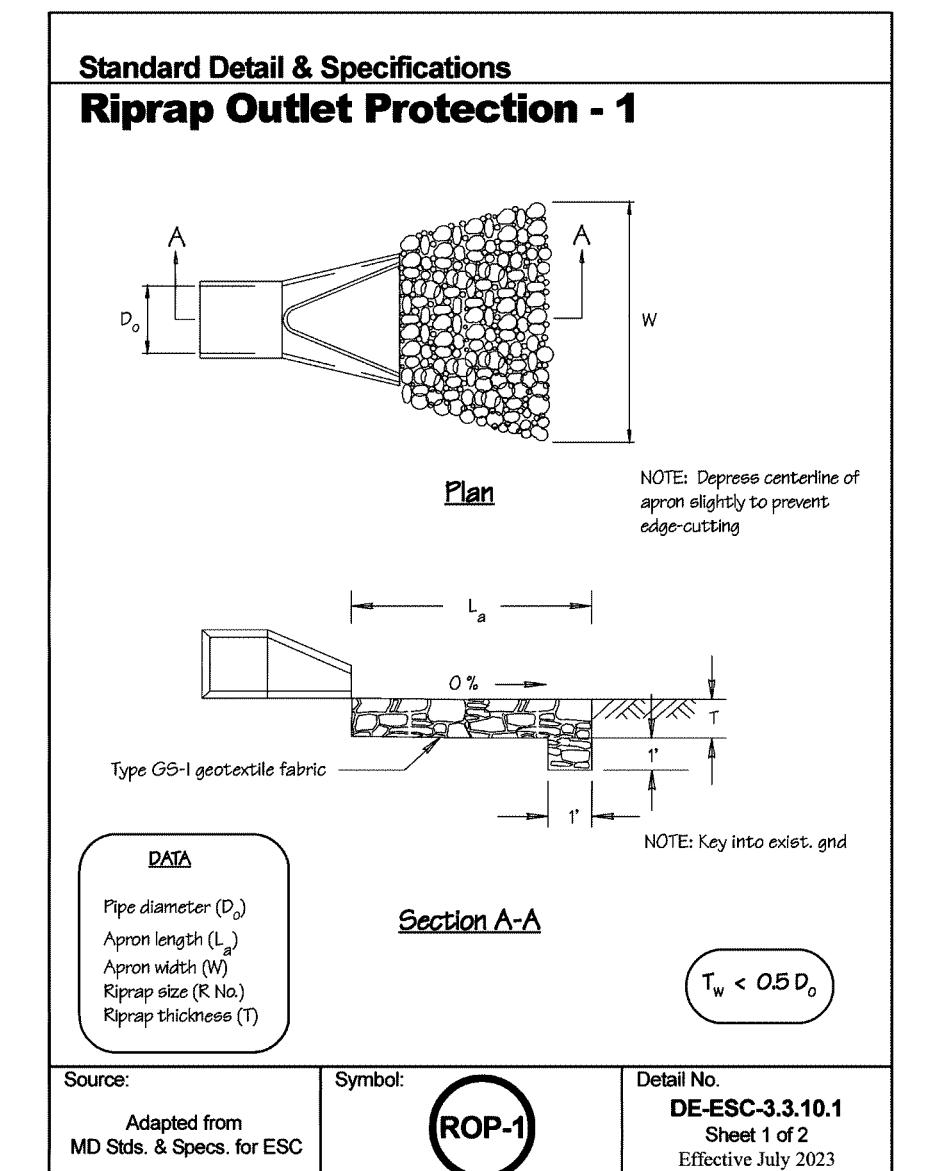
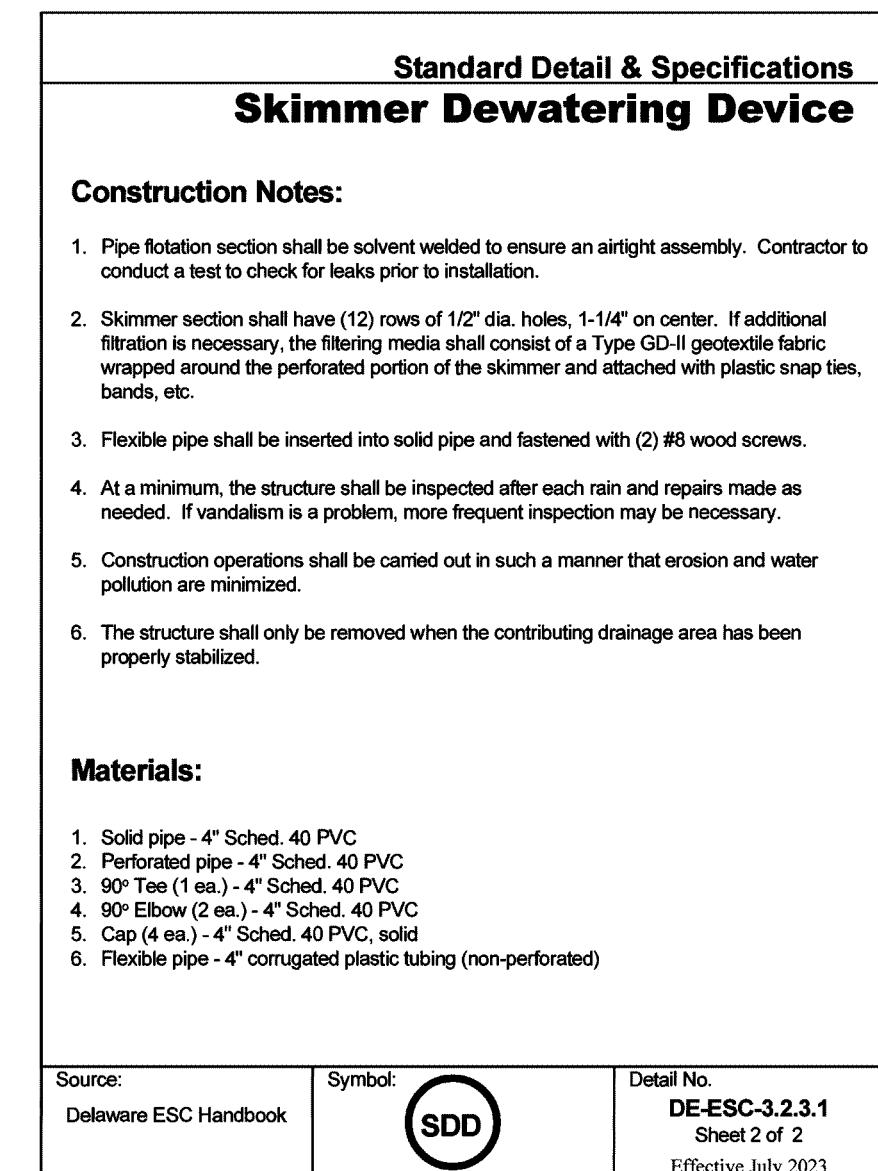
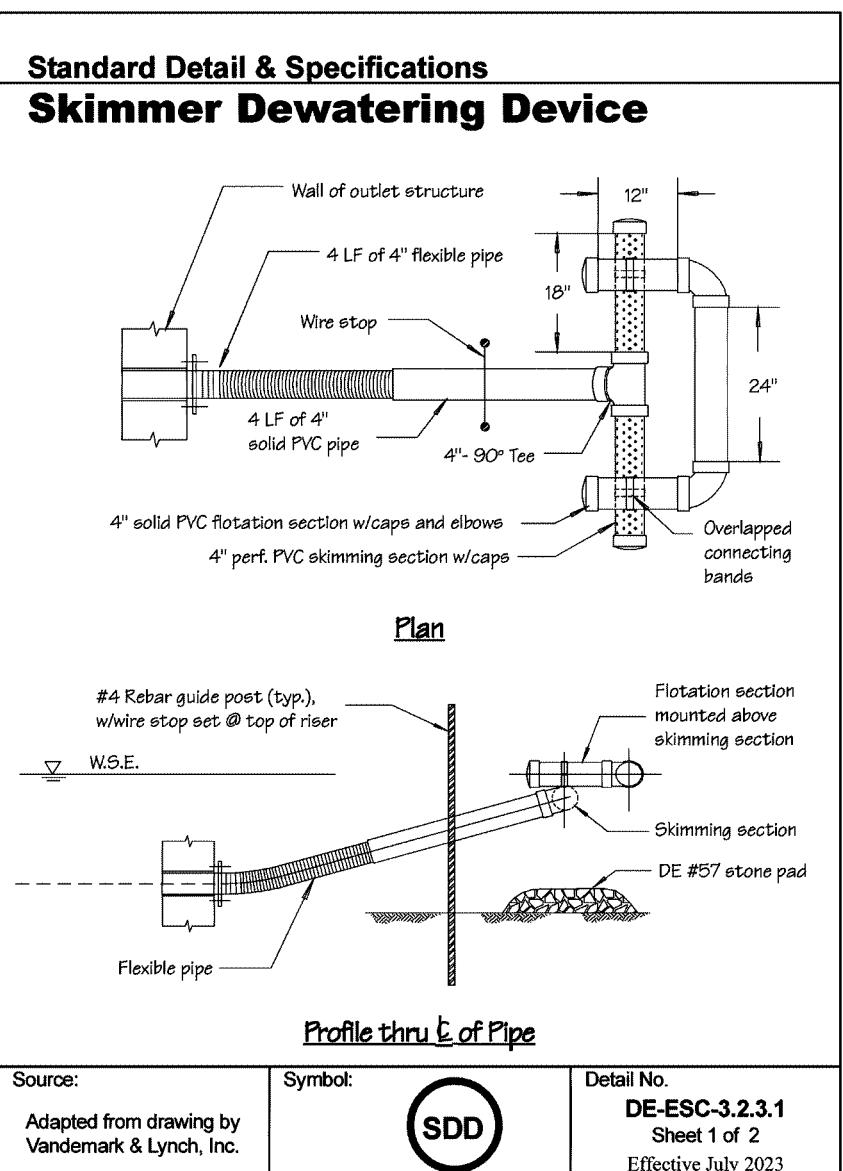
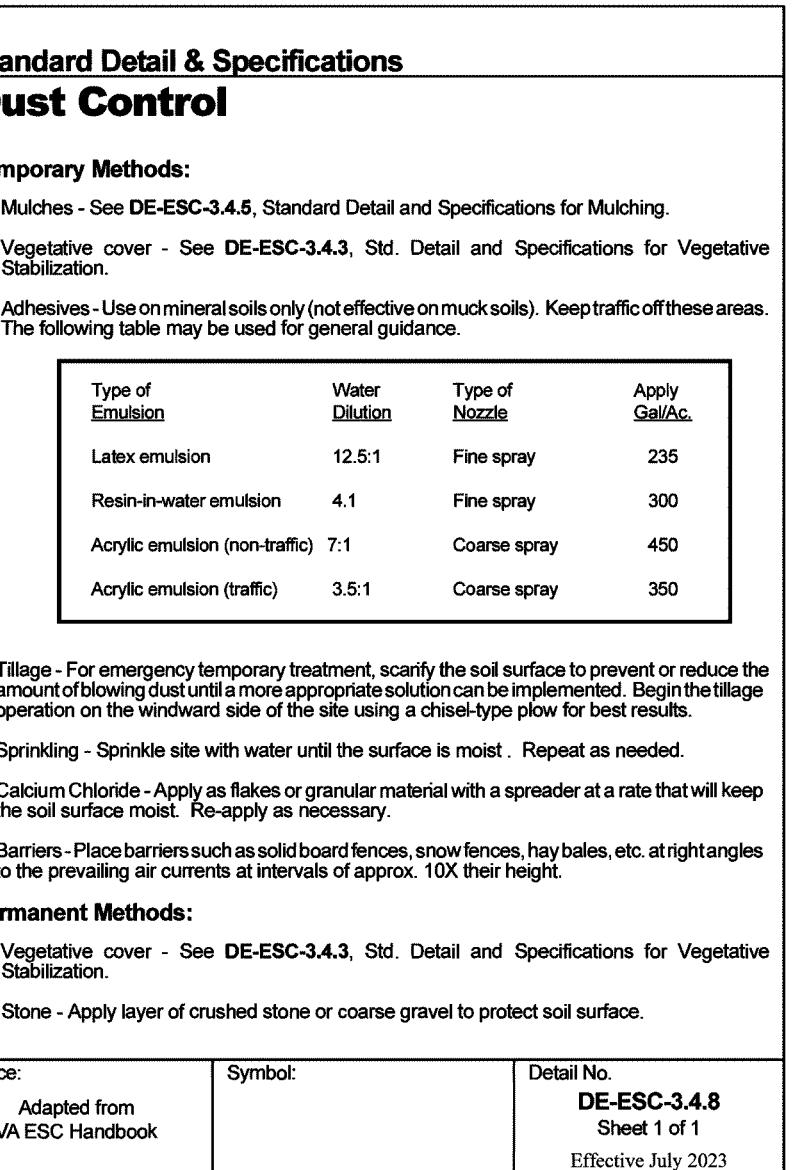
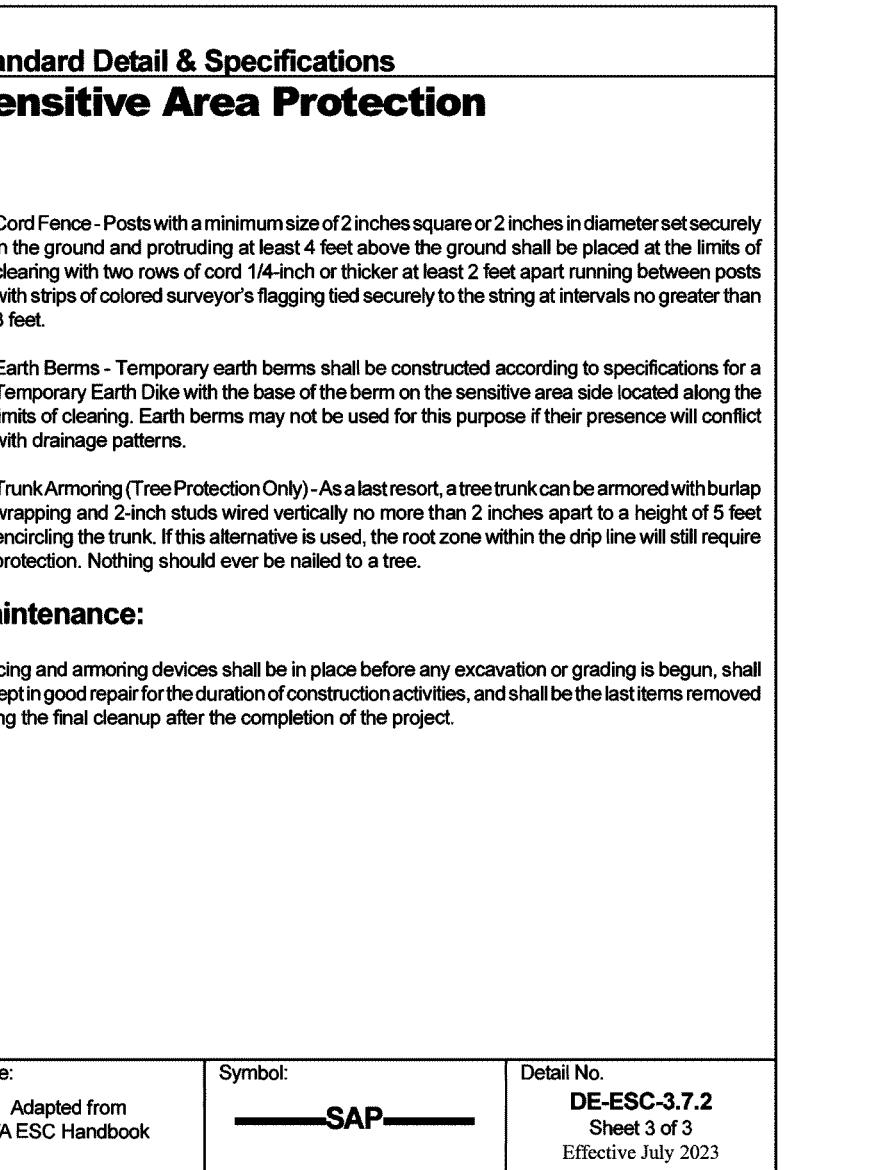
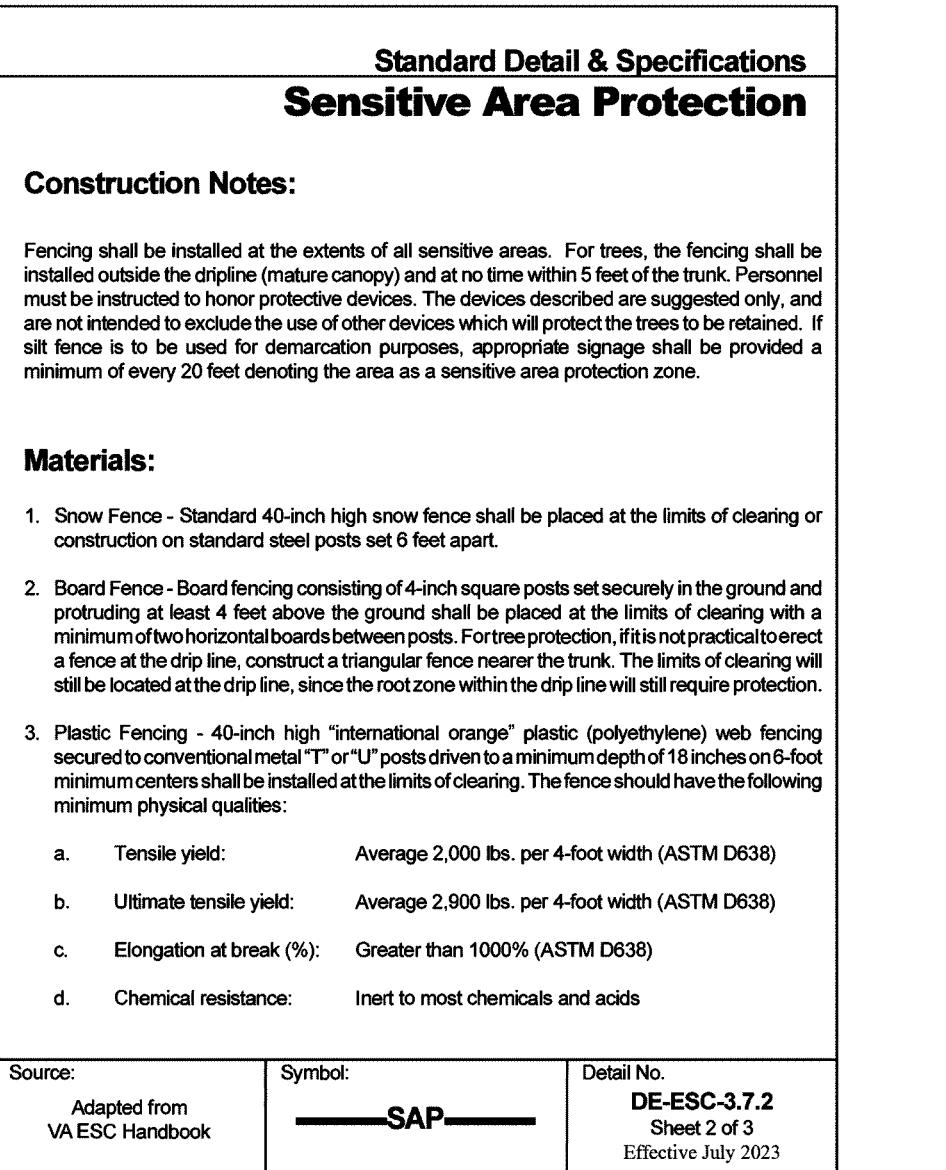
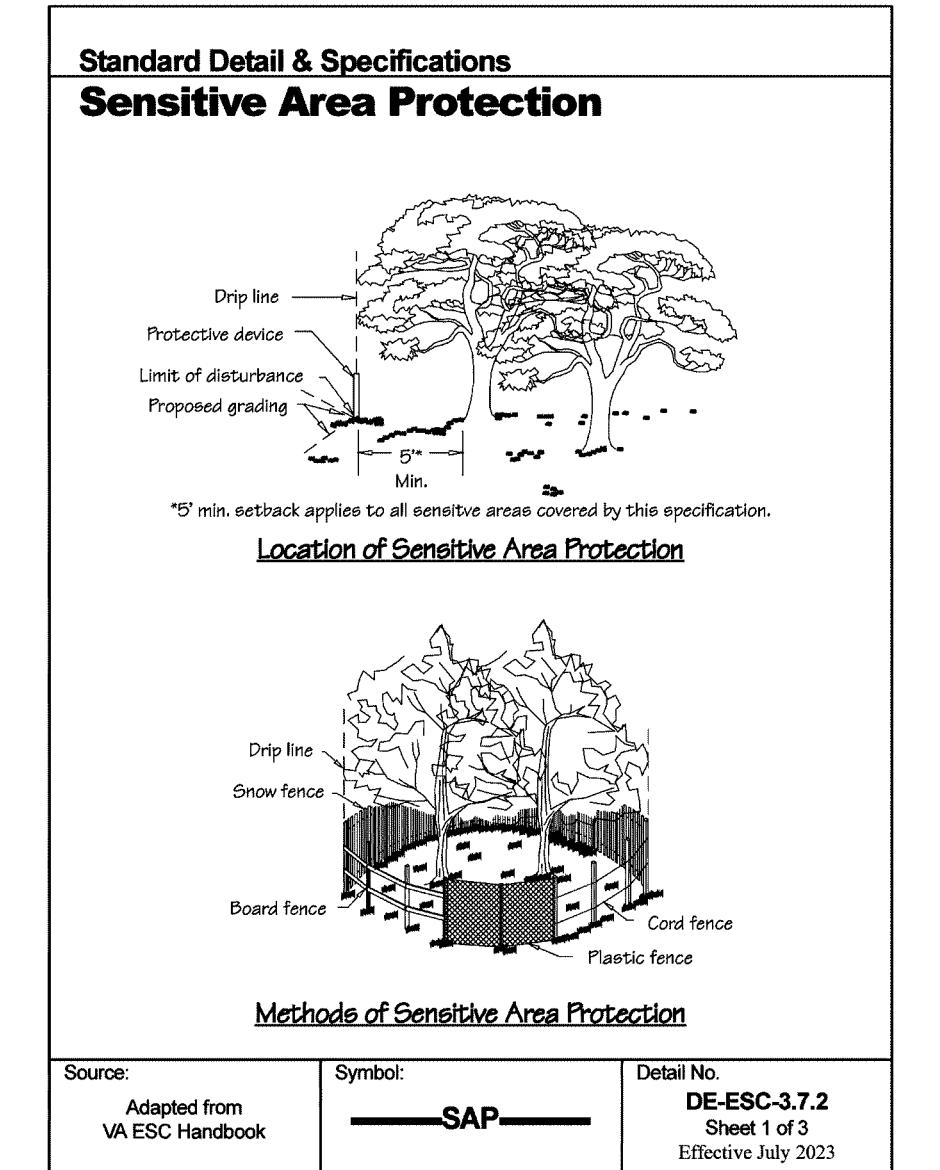
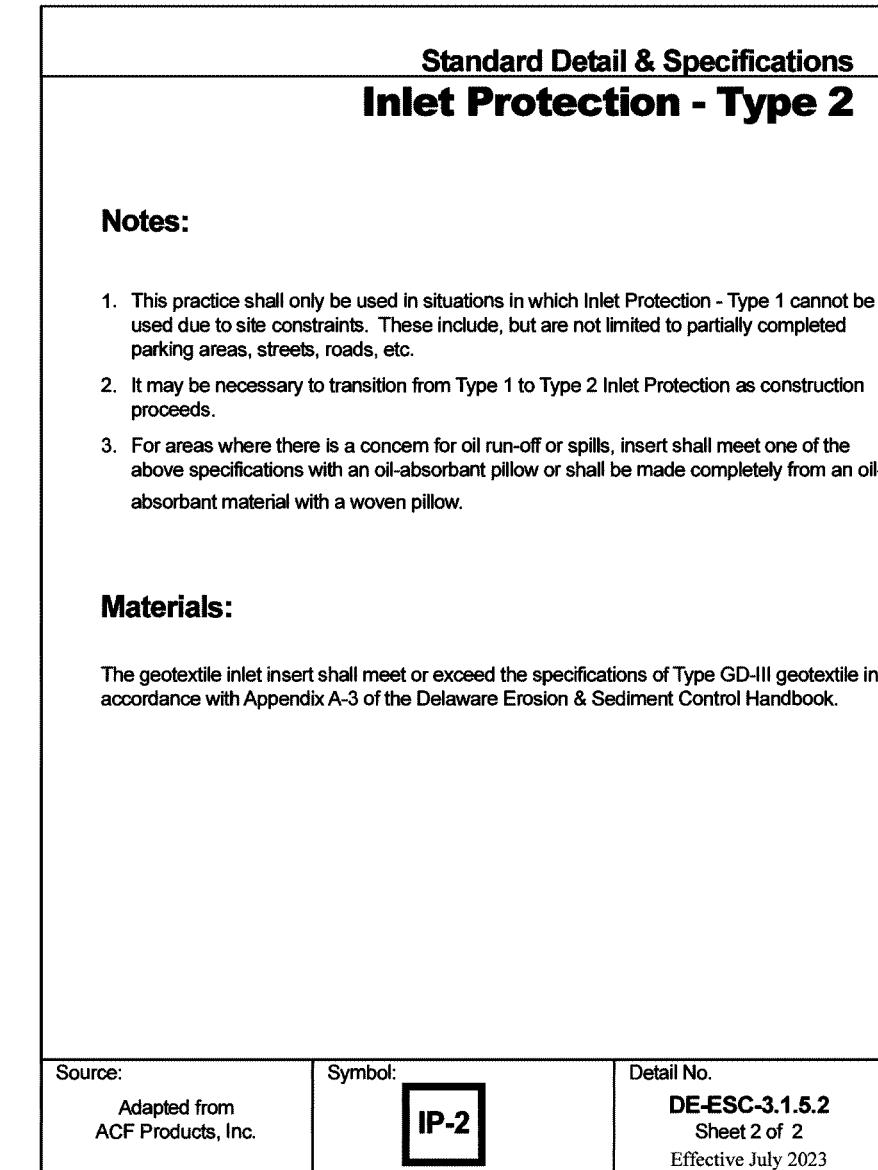
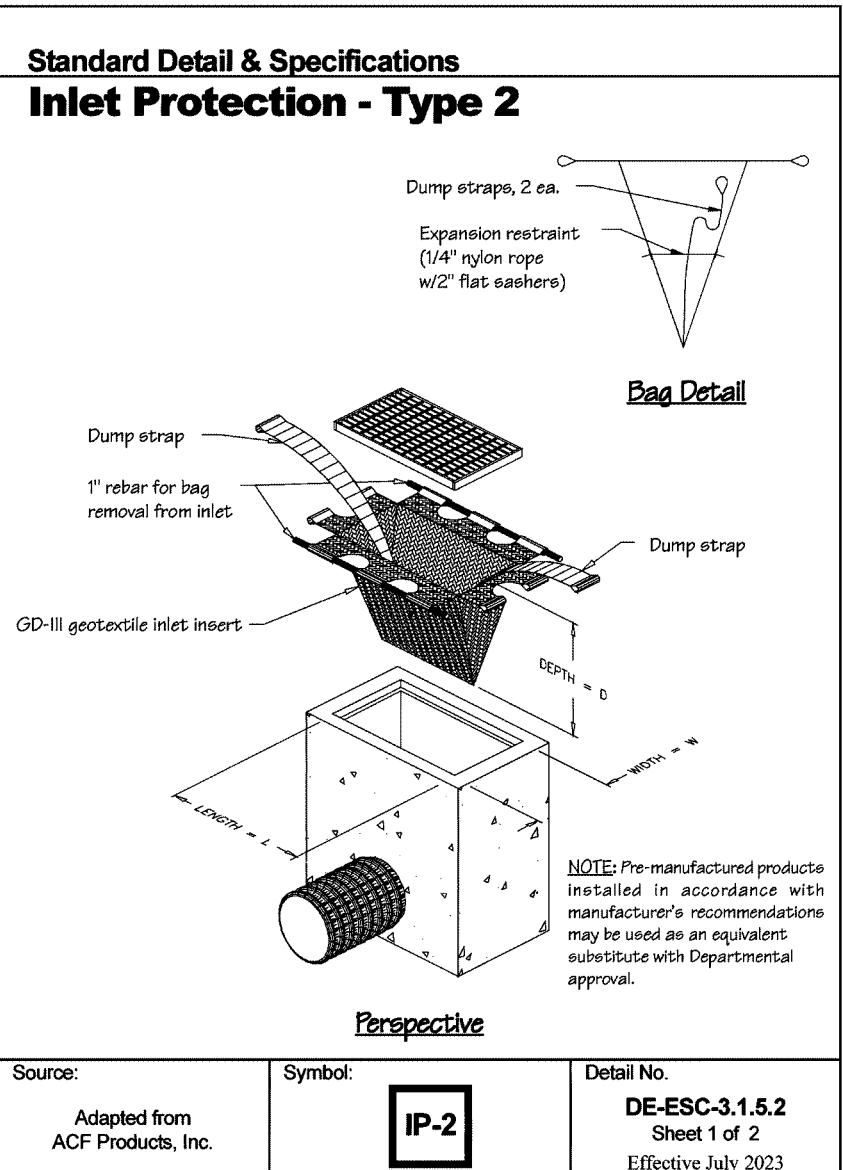
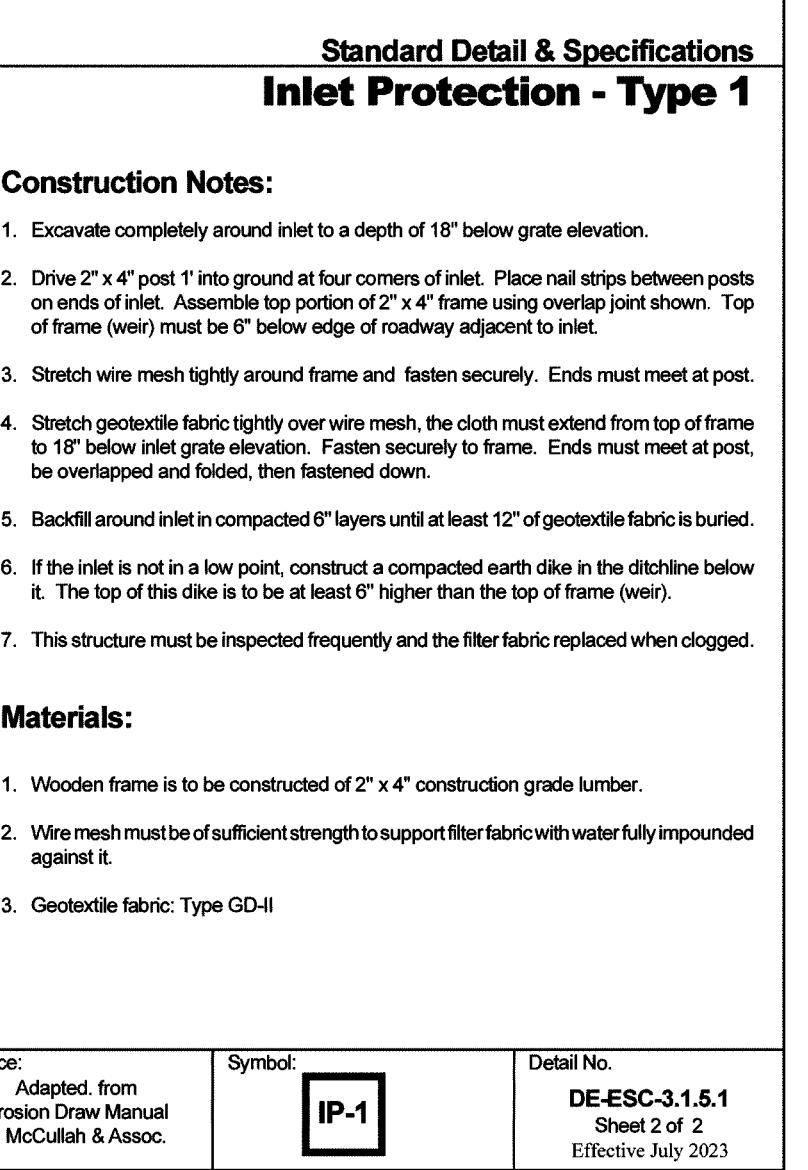
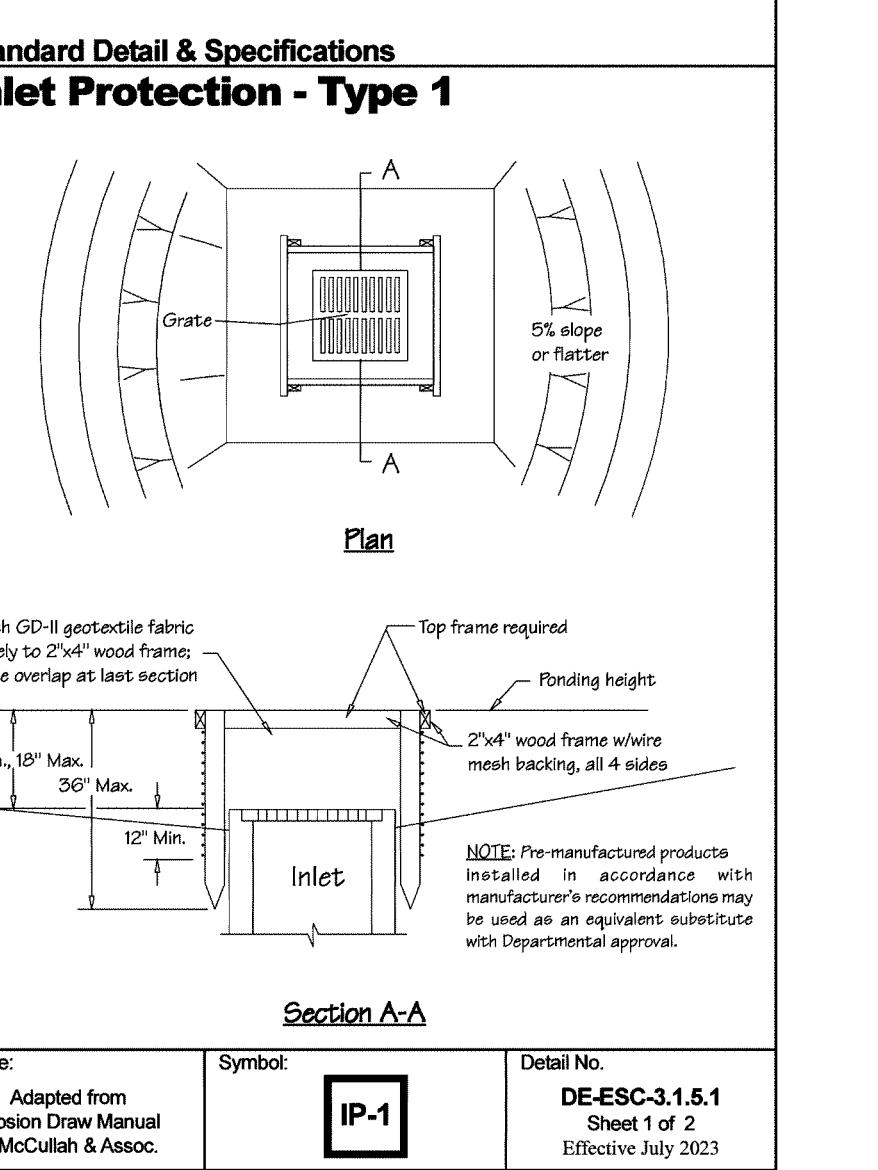
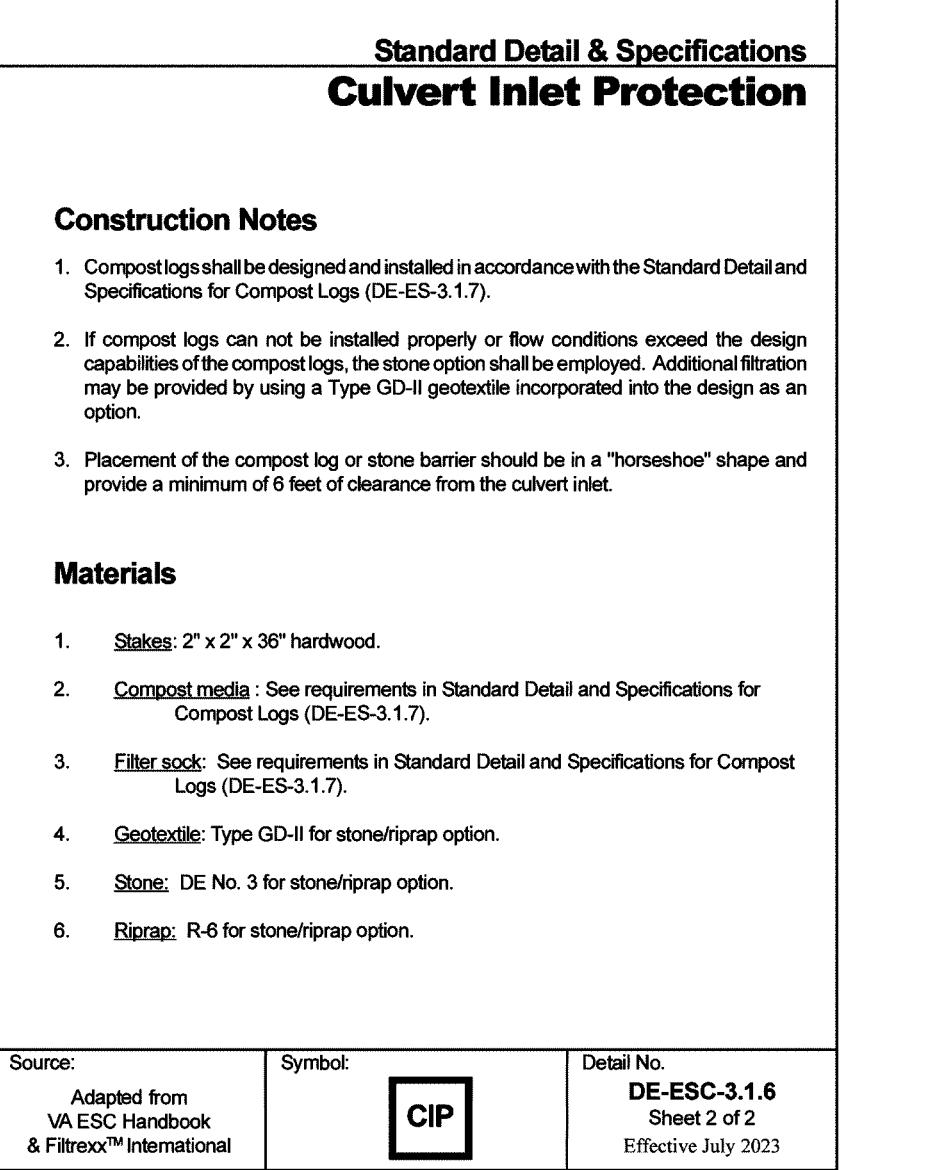
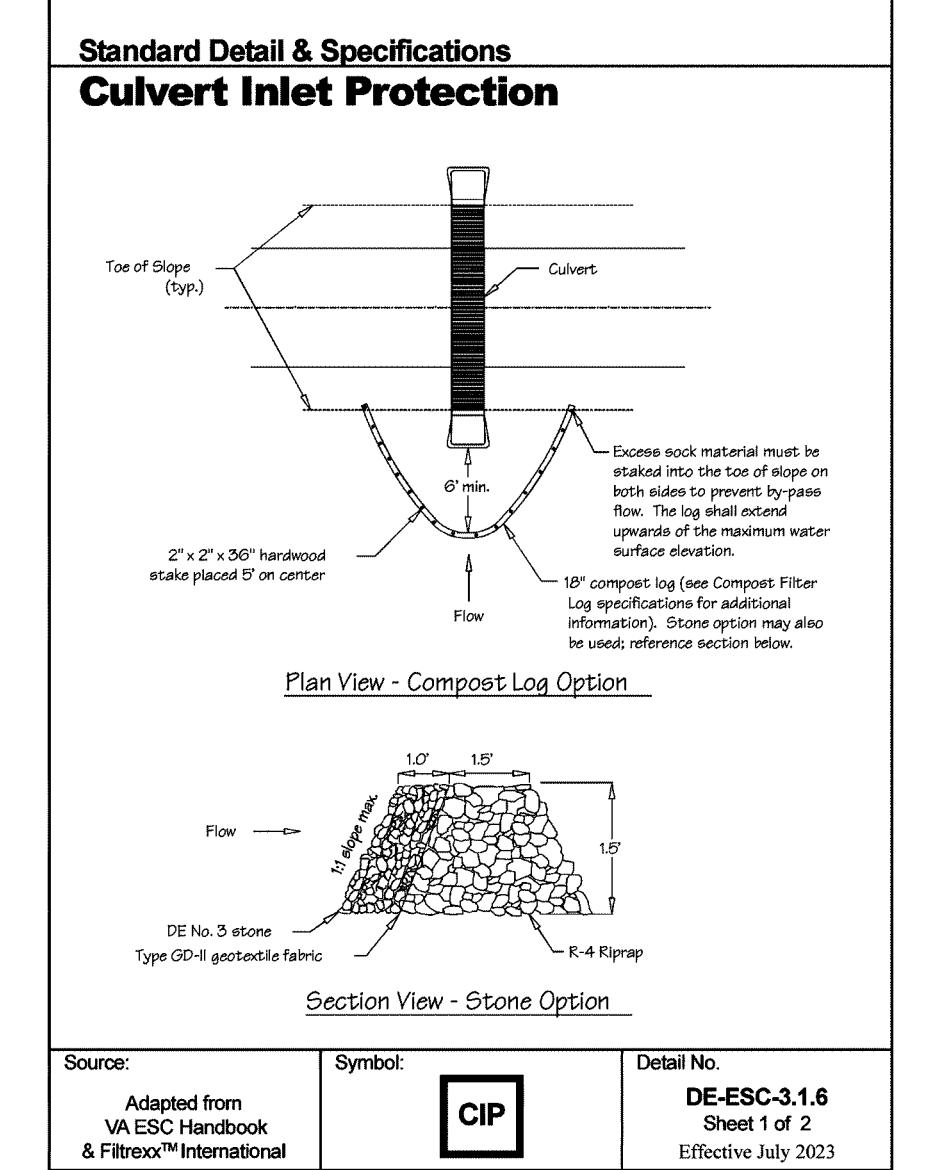
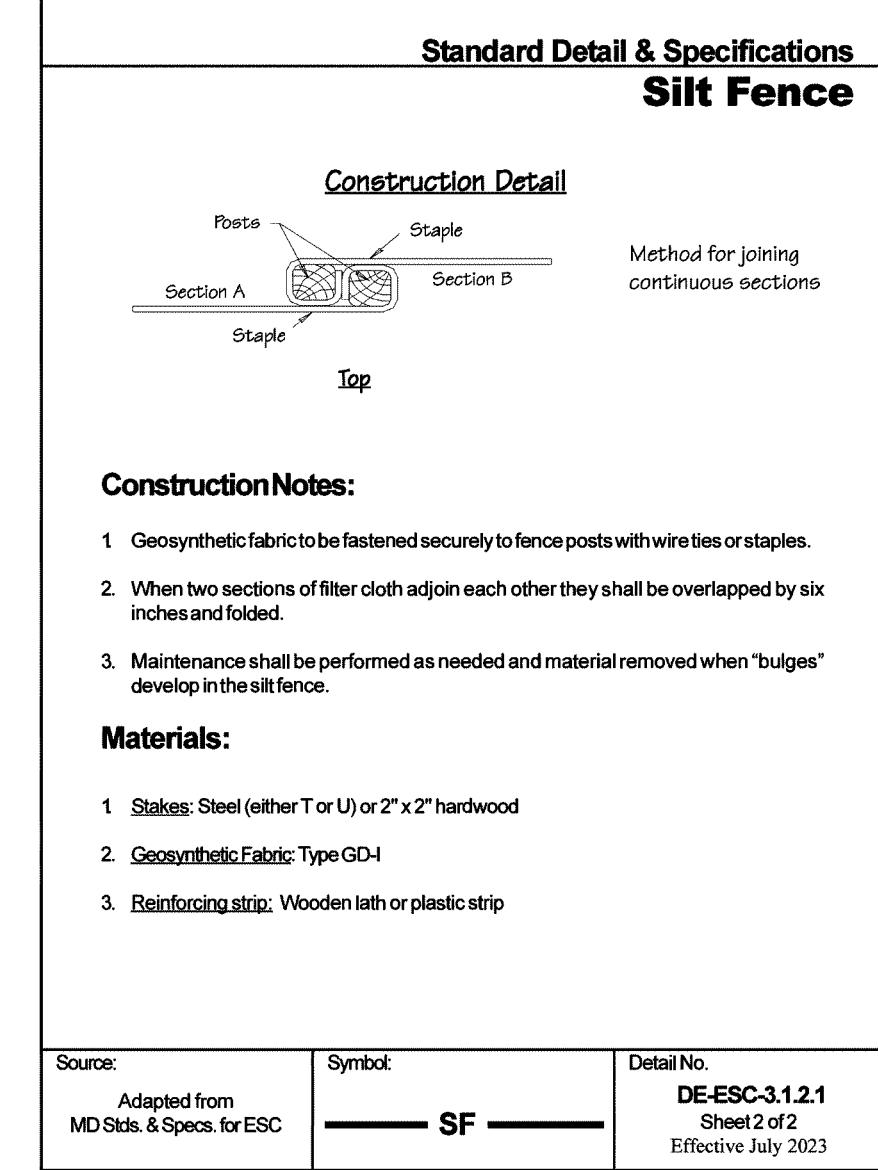
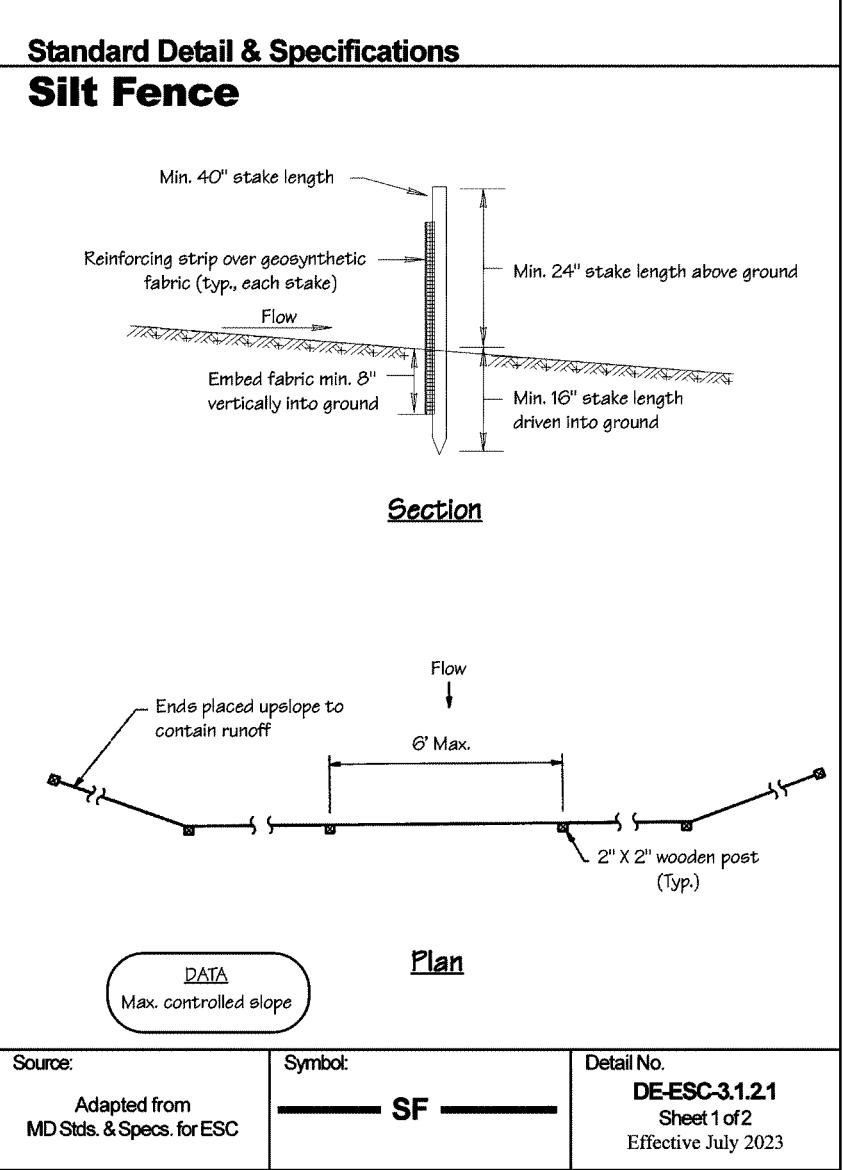
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BOSTON, MASSACHUSETTS 02124-1441
410.543.2091

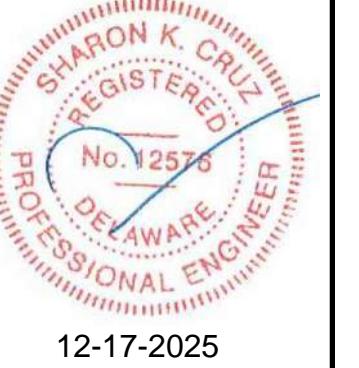
SHARON K. CRUZ
REGISTERED
PROFESSIONAL
ENGINEER
No. 12576
12-17-2025

PUMP STATION #19 UPGRADE

FRANKFORD TO PINEY NECK FORCE MAIN DIVERSION

SUSSEX COUNTY, DELAWARE





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410.543.1441 410.543.2091
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PUMP STATION #19 UPGRADE

FRANKFORD TO PINEY NECK FORCE MAIN DIVISION

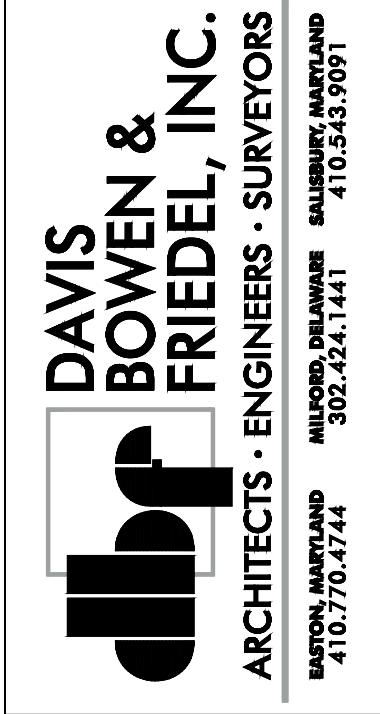
SUSSEX COUNTY, DELAWARE

C-402

Standard Detail & Specifications		
Topsoiling		
Construction Notes:		
1. Site Preparation (Where Topsoil is to be added)		
Note: When topsoiling, maintain needed erosion and sediment control practices such as diversions, grade stabilization structures, berms, dikes, waterways and sediment basins.		
a. Grading - Grades on the areas to be topsoiled which have been previously established shall be maintained.		
b. Liming - Where the topsoil is either highly acidic or composed of heavy clay, ground limestone shall be applied at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet). Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.		
c. Tilling - After the areas to be topsoiled have been brought to grade, immediately prior to spreading or spreading the topsoil, the subgrade shall be leveled by discing or by scarifying the surface to a depth of 6-12 inches and then topsoiled. Pack by pressing a bulldozer up and down over the entire surface area of the slope to create horizontal erosion check slots to prevent topsoil from sliding down the slope.		
2. Topsoil Material and Application		
Note: Topsoil salvaged from the existing site may often be used but it should meet the same requirements as those described. The depth of topsoil to be used in each area shall be no more than the depth described as a representative profile for that particular soil type as described in the soil survey published by USDA-SCS in cooperation with Delaware Agricultural Experimental Station.		
Source: USDA - NRCS	Symbol:	Detail No. DE-ESC-3.4.1 Sheet 1 of 2 Effective July 2023

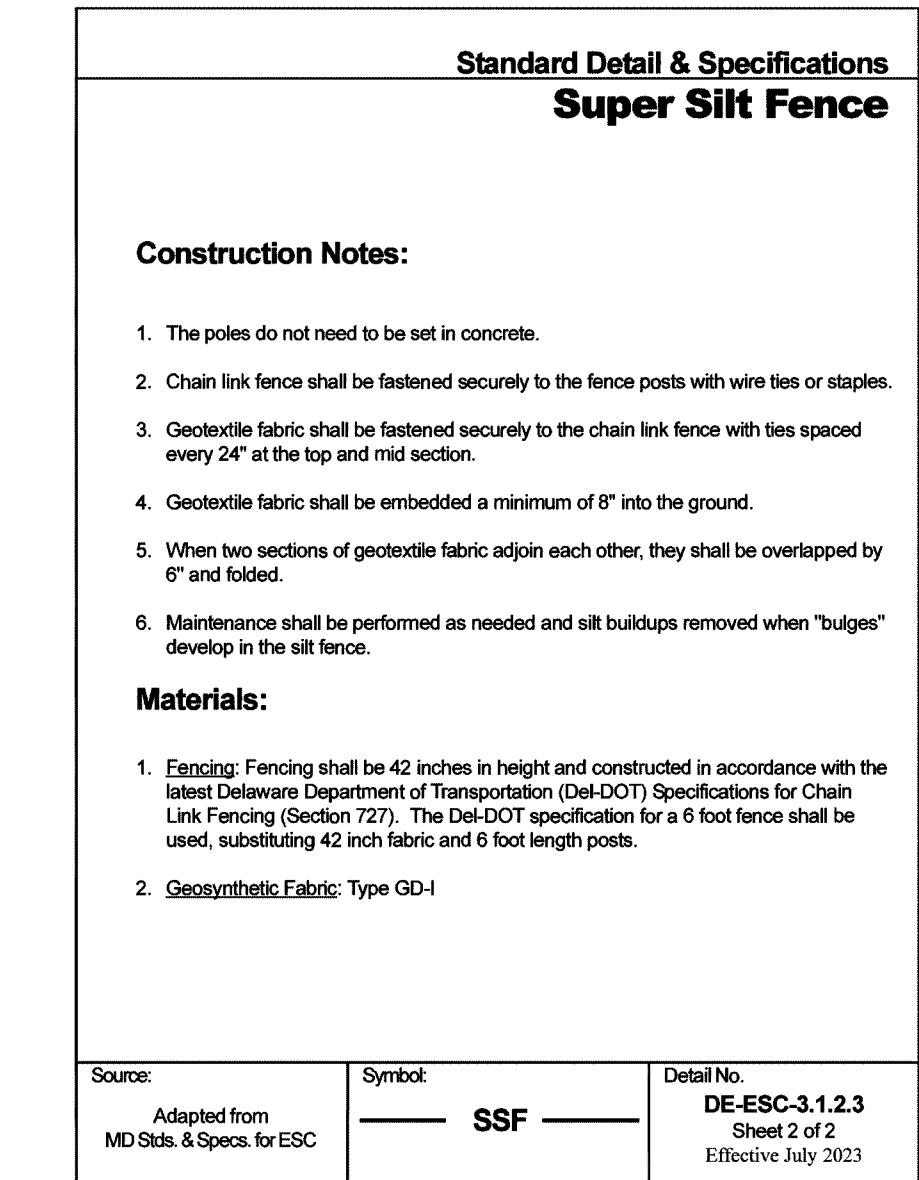
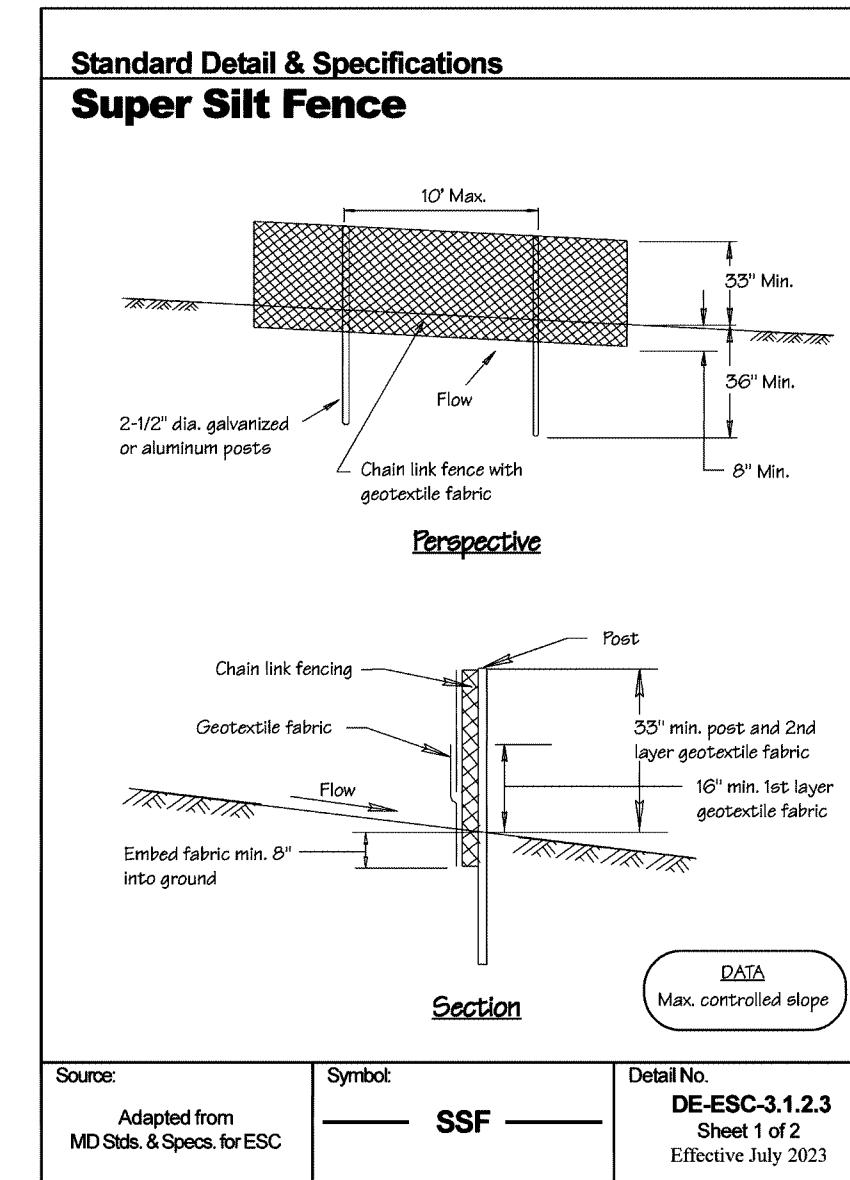
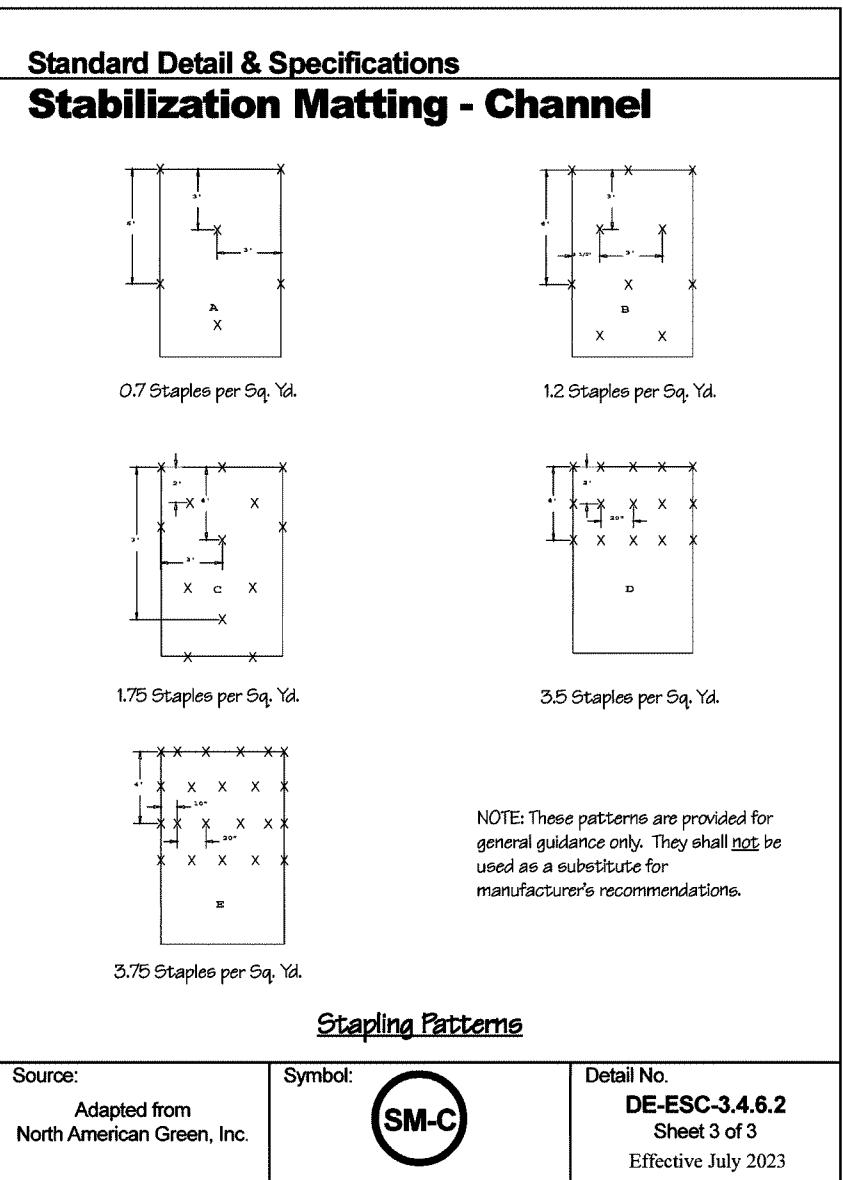
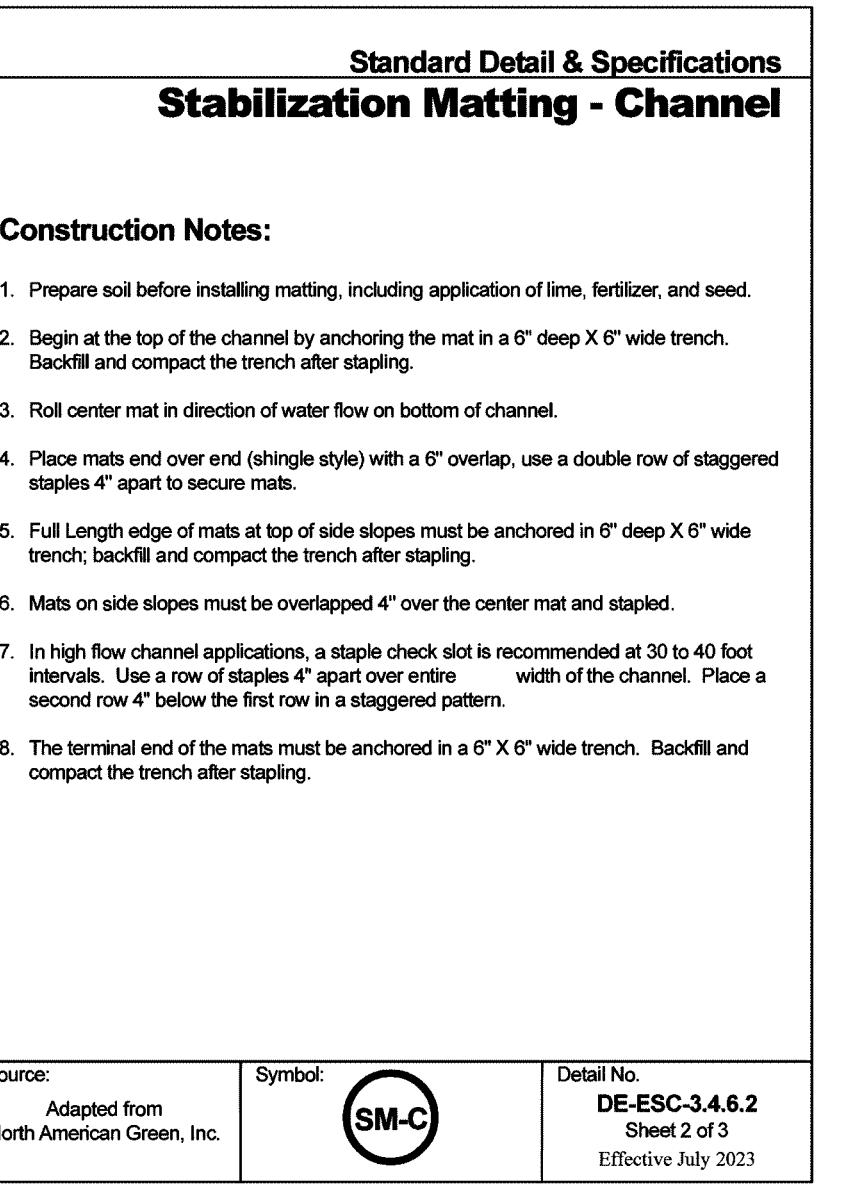
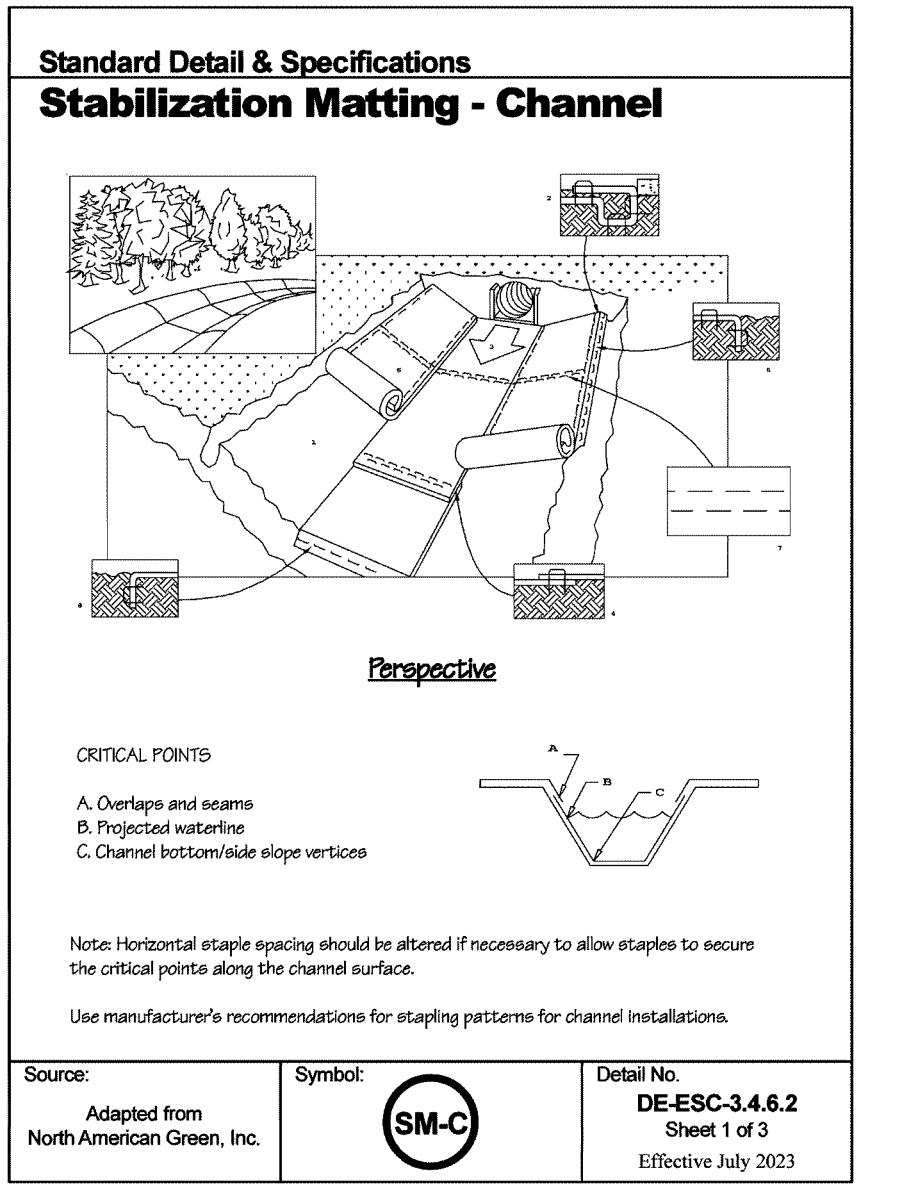
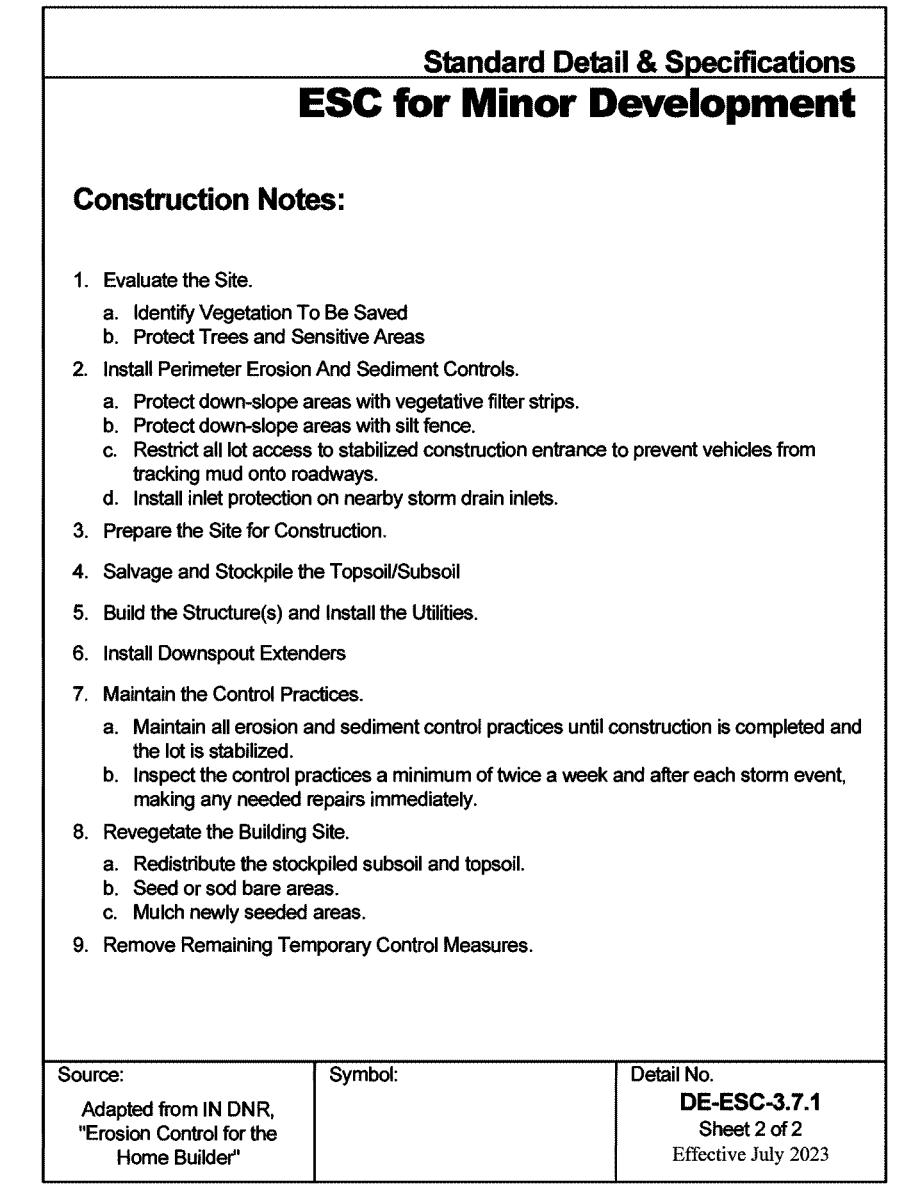
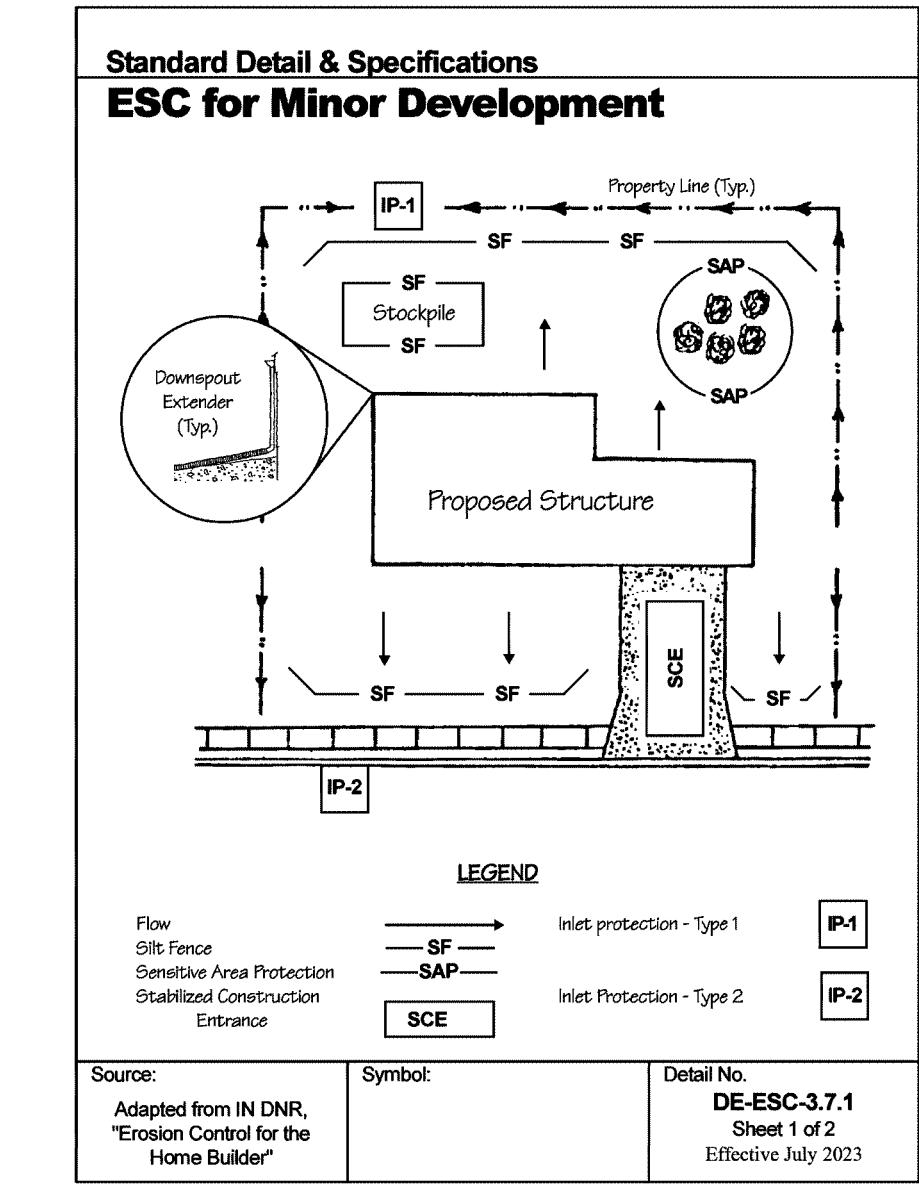
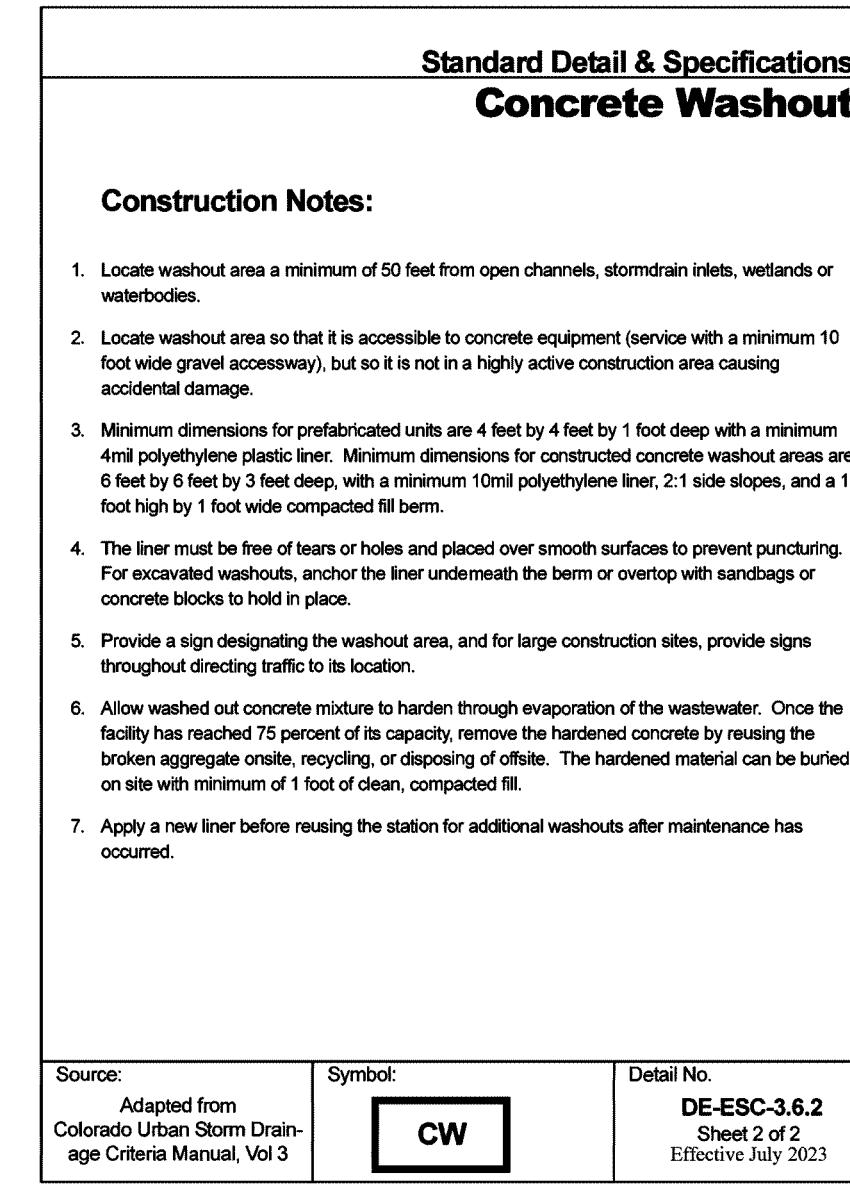
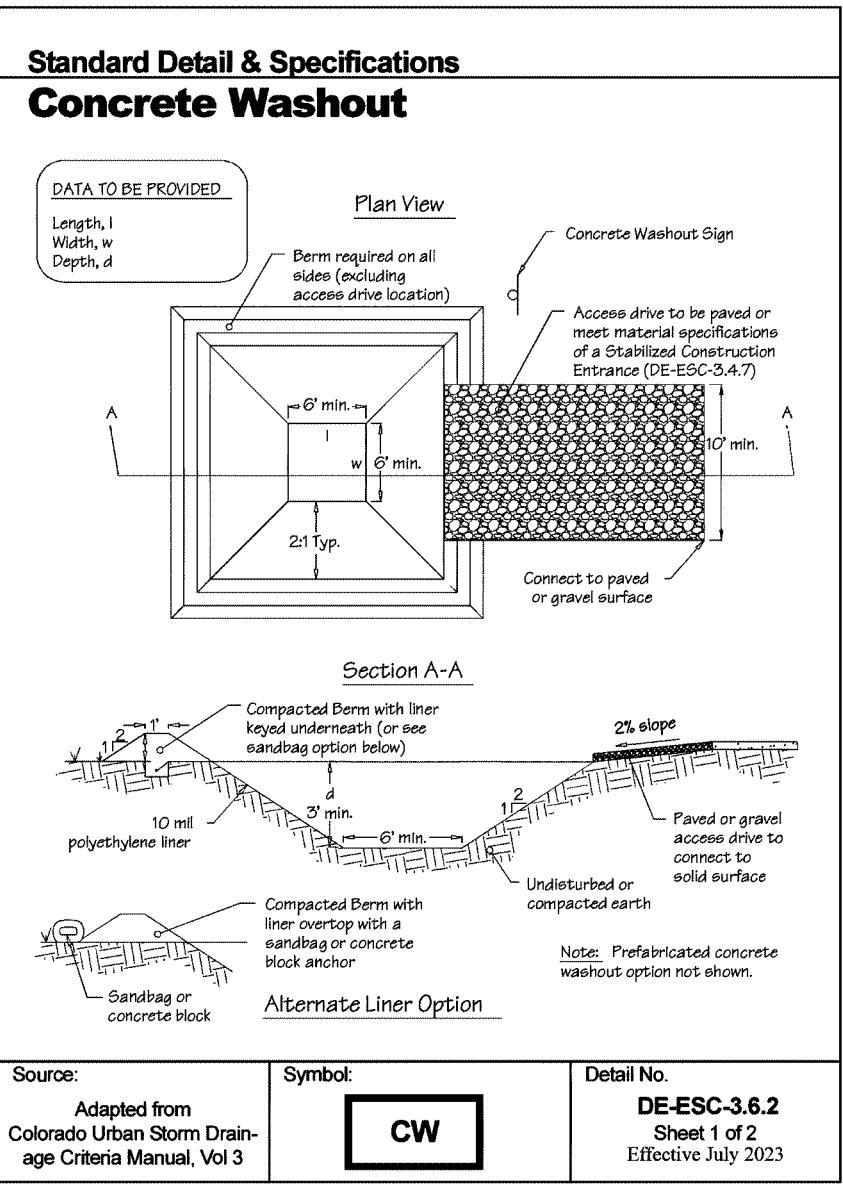
Standard Detail & Specifications		
Topsoiling		
Construction Notes (cont.)		
a. Materials - Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand or other soil as approved by the engineer. Topsoil shall contain no more than 10% fine aggregate and shall contain no more than 5 percent by volume of cinders, stones, slate, coarse fragment, gravel, sticks, roots, trash or other extraneous materials larger than 1-1/2 inches in diameter. Topsoil must be free of plants or plant parts of hemispherical, quackgrass, Johnsonsgrass, nutedge, poison ivy, thistles, or others as specified. Material shall be tested by a reputable laboratory for salt content, matter content, pH and soluble salts. The salt content of organic content of less than 1.5 percent by weight is required. If pH value is less than 6.0 lime shall be applied and incorporated with the topsoil to adjust the pH to 6.5 or higher. Topsoil containing soluble salts greater than 500 parts per million shall not be used.		
b. Liming - Where the topsoil is either highly acidic or composed of heavy clay, ground limestone shall be applied at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet). Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.		
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Source: USDA - NRCS	Symbol:	Detail No. DE-ESC-3.4.1 Sheet 2 of 2 Effective July 2023

Standard Detail & Specifications																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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SUSSEX COUNTY, DELAWARE

PUMP STATION #19 UPGRADE FRANKFORD TO PINEY NECK FORCE MAIN DIVERSION



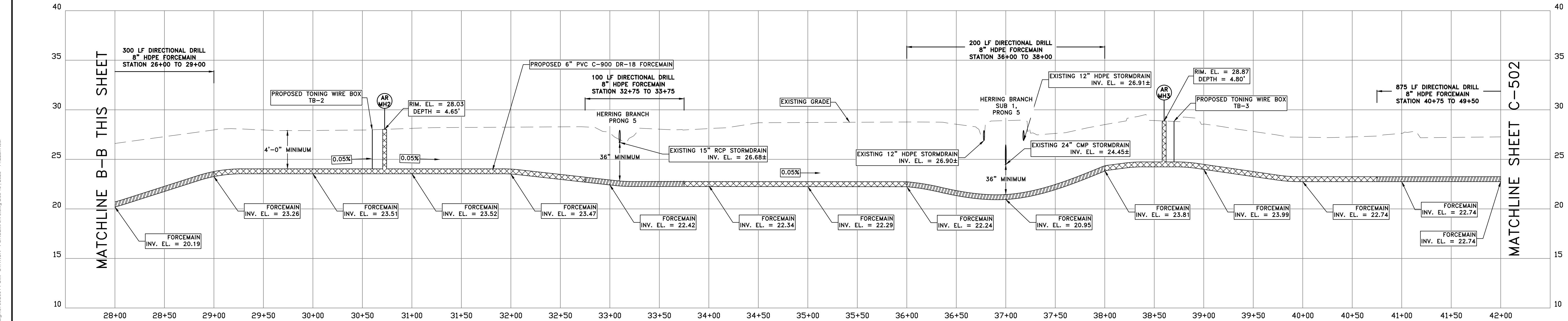
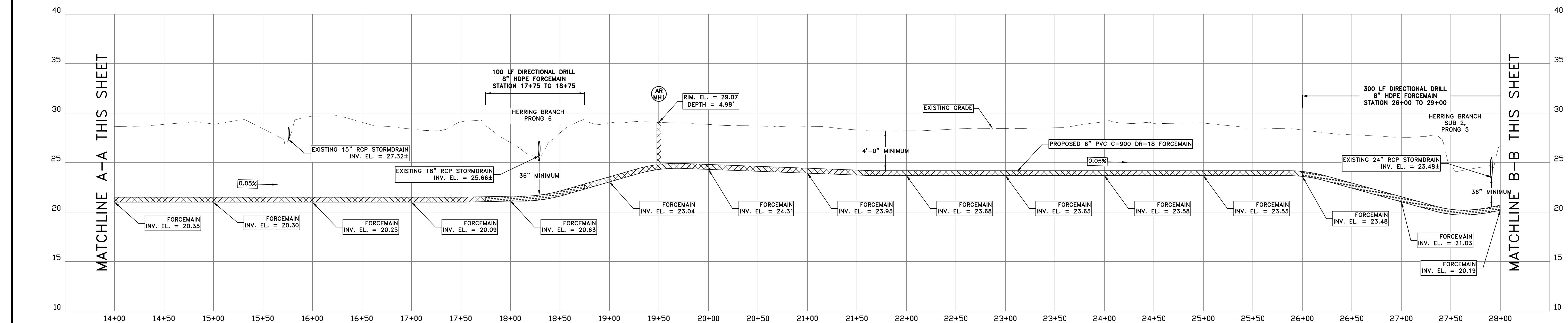
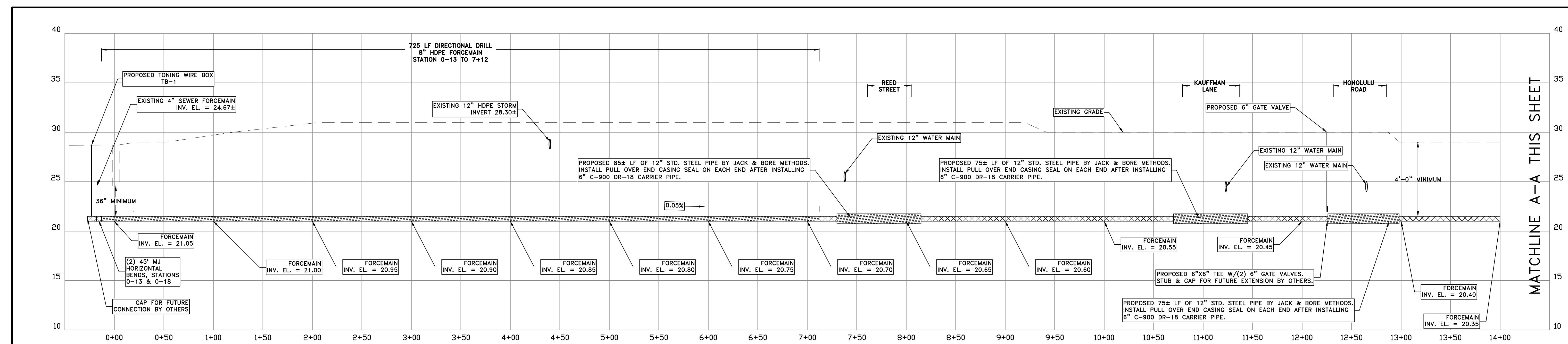
STANDARD CONDITIONS:

- STABILIZATION WITH SEED AND MULCH OR SEED AND STABILIZATION MATTING WILL OCCUR DAILY SO THAT NO GREATER THAN ONE ACRE WILL BE DISTURBED AT ANY ONE TIME.
- CONSTRUCTION THROUGH SENSITIVE AREAS, INCLUDING STREAM AND WETLAND CROSSINGS, WILL BE ACCOMPLISHED THROUGH DIRECTIONAL DRILLING, WITH LAND DISTURBANCE HAPPENING OUTSIDE OF THE SENSITIVE AREA.
- CONSTRUCTION SITE STORMWATER MANAGEMENT BEST MANAGEMENT PRACTICES WILL BE USED.
- CONSTRUCTION PROJECTS EXCEEDING 1.0 ACRE OF TOTAL DISTURBANCE REQUIRE SUBMITTAL OF A NOTICE OF INTENT (NOI) FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY.
- APPROVAL OF THIS STANDARD PLAN DOES NOT RELIEVE THE APPLICANT FROM COMPLYING WITH ANY AND ALL FEDERAL, STATE, COUNTY OR MUNICIPAL LAWS AND REGULATIONS.

STABILIZATION CONDITIONS:

- FOLLOWING INITIAL SOIL DISTRIBUTION OR REDISTURBANCE, TEMPORARY OR PERMANENT STABILIZATION WITH SEED AND MULCH SHALL BE COMPLETED WITHIN 14 CALENDAR DAYS TO THE SURFACE OF ALL DISTURBED AREAS NOT ACTIVELY UNDER CONSTRUCTION.
- SPECIFIC STABILIZATION RECOMMENDATIONS MAY BE FOUND IN THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK, 3.4.3 STANDARD AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION.

STORM WATER MANAGEMENT DETAILS
Dwg.No.: C-403



FORCEMAIN PROFILES

SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL

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SUSSEX COUNTY DEI AWARE

1	2025-07-22	SUSSEX COUNTY COMMENTS				
2	2025-09-25	SUSSEX COUNTY COMMENTS				
3	2025-12-04	FORCEMAIN RELOCATION				
ate:		MARCH 2025				
cale:		AS SHOWN				
wn.By:		RJL				
oj.No.:		0700C004				

FORCEMAIN PIPELINES

wg.No.:

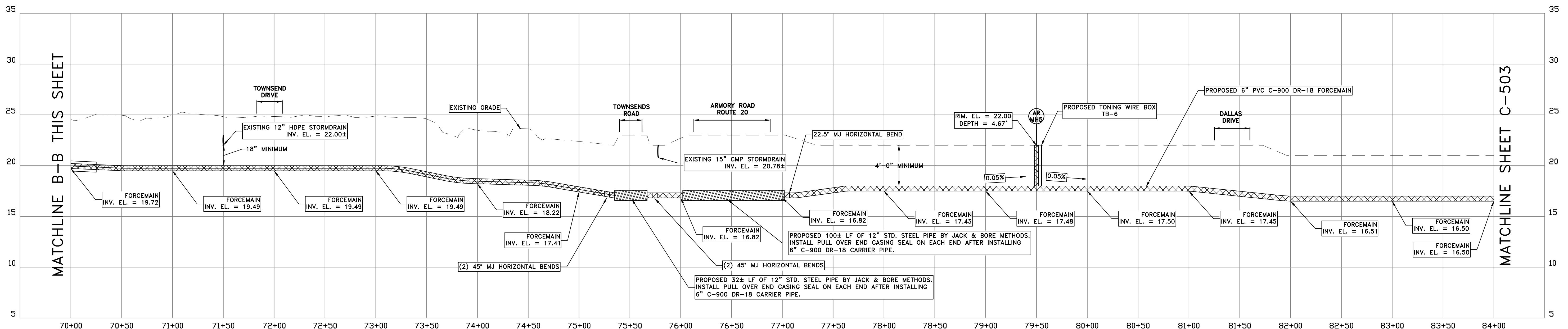
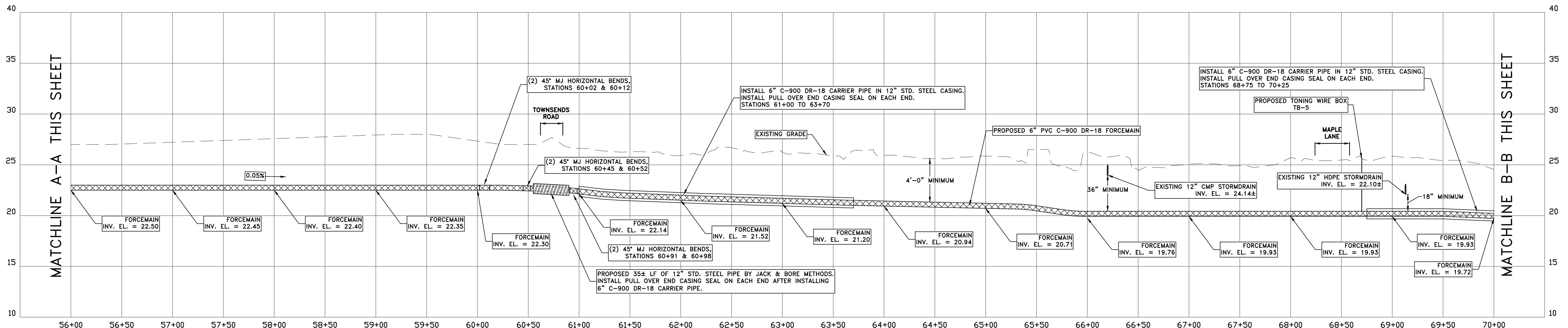
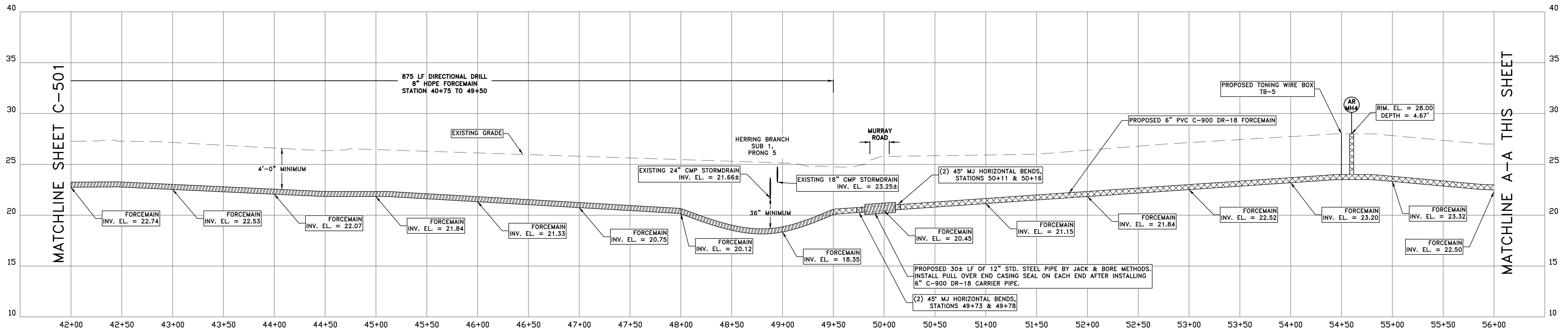
SHARON K. CRUZ
REGISTERED
NO. 12576
PROFESSIONAL ENGINEER
12-17-2025

DAVIS BOWEN & FRIEDEL, INC.
ARCHITECTS • ENGINEERS • SURVEYORS
BOSTON, MASSACHUSETTS 02124-1441
410.770.4744

PUMP STATION #19 UPGRADE
FRANKFORD TO PINEY NECK FORCE MAIN DIVERSION
SUSSEX COUNTY, DELAWARE

DAVIS BOWEN & FRIEDEL, INC.
ARCHITECTS • ENGINEERS • SURVEYORS
BOSTON, MASSACHUSETTS 02124-1441
410.543.2091

C-502



FORCEMAIN PROFILES

SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL

DATE	COMMENTS
1	SUSSEX COUNTY COMMENTS
2	2025-05-25
3	2025-12-04
	FORCEMAIN RELOCATION
Date:	MARCH 2025
Scale:	AS SHOWN
Dwg. By:	RJL
Proj. No.:	0700C004

FORCEMAIN PROFILES

Dwg. No.:

