

U.S. CUSTOMARY
UNITS

ARTESIAN WATER COMPANY, INC. STATE HIGHWAY UTILITY RELOCATION PLANS



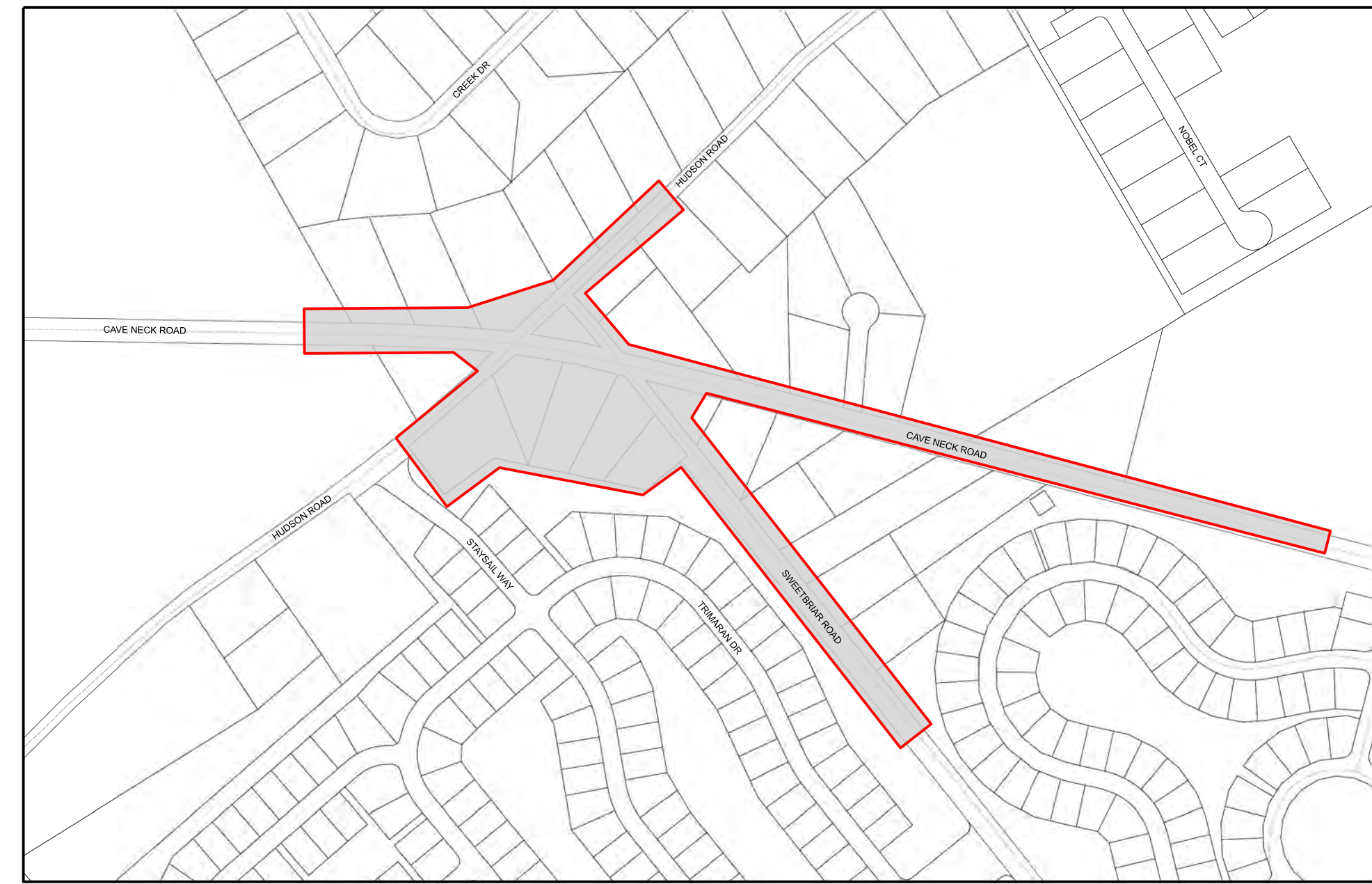
CONSTRUCTION PLANS FOR: CAVE NECK ROAD, HUDSON AND SWEETBRIAR ROADS INTERSECTION IMPROVEMENTS

STATE CONTRACT NUMBER: T202104304
AWC PROJECT NUMBER: 3006484

HUNDRED: BROADKILL COUNTY: SUSSEX

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TOTAL SHEETS: 29	

ADDENDA & REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY
1	2/24/2026	FINAL CONSTRUCTION PLANS	EZ



LOCATION MAP
SCALE: N. T. S.

PREPARED BY:

RLJ _____	2/24/2026 _____
PROJECT MANAGER	DATE
WFT _____	2/24/2026 _____
PROJECT OWNER	DATE
EZ _____	2/24/2026 _____
DESIGNER	DATE

SYSTEMS PLANNING

PLANNING MANAGER _____

DATE _____

TRANS. & DIST.

T&D SUPERVISOR _____

DATE _____

ENGINEERING

DLR _____

PROFESSIONAL ENGINEER

DATE 5/1/2026

INSPECTOR

AREA INSPECTOR _____

DATE _____



CONSTRUCTION PLANS FOR:
**CAVE NECK ROAD, HUDSON
AND SWEETBRIAR ROADS
INTERSECTION IMPROVEMENTS**
AWC PROJECT NUMBER: 3006484

MISS UTILITY OF DELMARVA
CALL BEFORE YOU DIG
1-800-282-8555 (IN DEL.)
PLEASE GIVE TWO WORKING DAYS
ADVANCE NOTICE

ARTESIAN WASTEWATER COMPANY NOTES

- ALL MATERIAL AND INSTALLATIONS SHALL CONFORM TO ARTESIAN WASTEWATER MANAGEMENT, INC. SPECIFICATIONS AND 10 STATES STANDARDS.
- DEPTH OF PROPOSED WASTEWATER MAIN SHALL BE A MINIMUM OF 48" FROM FINISHED GRADE TO TOP OF PIPE, INCLUDING SERVICES, UNLESS OTHERWISE SHOWN.
- DEPTH OF PROPOSED SEWER MAIN MAY VARY DUE TO EXISTING FACILITIES.
- EXISTING GRADES ARE NOT TO BE CHANGED.
- 18" VERTICAL CLEARANCE BETWEEN ALL UTILITIES IS TO BE MAINTAINED.
- 10" HORIZONTAL SEPARATION FROM EXISTING WATER MAINS IS TO BE MAINTAINED UNLESS NOTED OTHERWISE.
- REMOVE ALL VALVE BOXES FROM ABANDONED MAINS AND ALL STOP BOXES FROM ABANDONED SERVICES AFTER THE NEW MAIN HAS BEEN PUT INTO SERVICE.
- ALL ROADWAY PATCHES SHALL BE TO STATE SPEC.
- ALL CONCRETE CURB SHALL NOT BE DISTURBED UNLESS IT IS UNAVOIDABLE.
- ALL CONCRETE SIDEWALK PATCHES SHALL BE 4" THICK WITH 4" OF CRUSHER RUN.
- THE DELDOT INSPECTOR NEEDS TO BE NOTIFIED 24 HOURS IN ADVANCE OF MATERIAL PLACEMENT TO REQUEST MATERIAL RELEASES. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE DELDOT INSPECTOR.
- ALL MOT SHALL BE IN ACCORDANCE WITH THE DELAWARE MUTCD MANUAL (LATEST EDITION) AND BE NCHRP 350 CERTIFIED.
- EXISTING UTILITIES ARE SHOWN IN ACCORDANCE WITH BEST AVAILABLE INFORMATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND ALLOW FOR THEIR LOCATION.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE AND ANY DAMAGE DONE TO THEM DUE TO HIS NEGLIGENCE SHALL BE IMMEDIATELY AND COMPLETELY REPAIRED AT HIS EXPENSE.
- TEMPORARY SIDEWALK HAS TO BE PLACED WHERE EXISTING SIDEWALK IS REMOVED WITH BLACKTOP OR COLD PATCH. NO MORE THAN 500' CAN BE REMOVED WITHOUT PUTTING IN THE TEMPORARY SIDEWALK.
- HYDRO-SEEDING AND SIFTED TOPSOIL SHALL BE USED FOR THE RESTORATION IN GRASS AREAS/LAWNS.
GRASS SEED SPECIFICATIONS
FULL SUN/SHADE MIX
30% MONTAUK TALL FESCUE
20% PERENNIAL RYEGRASS
20% ANNUAL RYEGRASS
20% CREEPING RED FESCUE
10% KENTUCKY BLUEGRASS
- ALL BUSHES AND SHRUBS NOT BEING DISTURBED BY THE DELDOT CONTRACT SHALL BE REPLANTED BY THE CONTRACTOR.
- SIDEWALKS THAT GO THROUGH DRIVEWAYS SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR SELECT. ALL OTHER SIDEWALK WILL BE A UNIT PRICE.
- VACUUM EXCAVATION METHOD IS TO BE USED FOR TEST HOLES WHERE EXISTING UTILITIES CROSS PROPOSED WATER FACILITIES UNDER IMPERVIOUS AREAS.
- CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF EXISTING UTILITIES AT ALL PROPOSED CROSSINGS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES AND/OR PROPOSED MODIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARTESIAN WASTEWATER MANAGEMENT INSPECTOR AT LEAST ONE WEEK PRIOR TO THE PLANNED COMMENCEMENT OF CONSTRUCTION.
- HOLD UTILITY POLES AS NEEDED, REMOVE & REPLACE GUY WIRES, AS NECESSARY.
- ANY EXISTING PROPERTY MONUMENTATION THAT IS DISTURBED DURING CONSTRUCTION ACTIVITIES ARE TO BE REPLACED OR RESTORED TO ORIGINAL POSITION BY CONTRACTOR.
- ALL RESTORATION SHALL BE TO DELDOT'S UTILITIES DESIGN MANUAL AND STANDARD CONSTRUCTION DETAILS.
- CONCRETE SIDEWALKS THAT GO THROUGH DRIVEWAYS SHALL BE 6" THICK WITH 6" OF GABC. ALL REMAINING CONCRETE SIDEWALKS SHALL BE 4" THICK WITH 4" OF GABC. CONCRETE CURB RAMPS SHALL BE 6" THICK WITH 4" OF GABC.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT THE STATE INSPECTOR FOR STATE RELEASED CONCRETE, HOTMIX AND ETC.
- ANY EXISTING WASTEWATER MAIN THAT IS TO BE ABANDONED, SHALL BE ABANDONED IN PLACE.

THIS DRAWING DOES NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATION SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THERETO APPURTENT.

GENERAL NOTES

- CONTRACTOR SHALL CONDUCT A PRE-CONSTRUCTION MEETING AT THE PROJECT SITE. SEE THE CONTRACT SPECIAL PROVISIONS FOR A LIST OF THE AGENCIES THAT SHALL BE CONTACTED AT LEAST 7 DAYS IN ADVANCE OF THE PRE-CONSTRUCTION MEETING.
- THE CONTRACTOR SHALL PROVIDE MOT FOR CONSTRUCTION PERFORMED WITHIN PUBLIC ROW PER THE MAINTENANCE OF TRAFFIC NOTES. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. COMMENCEMENT OF CONSTRUCTION WILL BE CONTINGENT UPON RECEIVING APPROVAL OF THE TRAFFIC CONTROL PLAN FROM DELDOT'S CONSTRUCTION SECTION. PLEASE SEE CHARTS BELOW FOR LANE CLOSURE TIMES.
- CONTRACTOR SHALL CONTACT THE ARTESIAN WASTEWATER INSPECTOR AND DELDOT PROJECT REPRESENTATIVE AT LEAST THREE DAYS PRIOR TO THE PLANNED START OF CONSTRUCTION.
- CONTRACTOR SHALL CONTACT MISS UTILITY AT LEAST 48 HOURS PRIOR TO EXCAVATION ACTIVITIES.
- CONTRACTOR SHALL LAYOUT ALL PROPOSED WASTEWATER FACILITIES, PER ARTESIAN'S STAKE OUT SPECIFICATIONS, FOR APPROVAL FROM DELDOT OR ITS CONSULTANT PRIOR TO THE START OF PIPELINE INSTALLATION.
- CONSTRUCTION OF THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH THE ARTESIAN WASTEWATER COMPANY INSTALLATION CONTRACT, CONSTRUCTION SPECIFICATIONS, 10 STATE STANDARDS AND AMENDMENTS THERETO.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO AND MAINTENANCE AND PROTECTION OF THE EXISTING UTILITIES AND STRUCTURES.
- THE CONTRACTOR SHALL KEEP ALL EXCAVATIONS FREE FROM WATER OR OTHER LIQUIDS DURING THE PROGRESS OF THE WORK. HE SHALL PROVIDE AND KEEP IN OPERATION SUCH PUMPS, DRAINS, DAMS, DITCHING, ETC., AS MAY BE NECESSARY TO KEEP THE EXCAVATIONS DRY AND FREE FROM WATER OR OTHER LIQUIDS. DEWATERING OPERATIONS FOR ALL UTILITY EXCAVATIONS SHALL BE CAPABLE OF MAINTAINING DRY WORKING CONDITIONS WITH NO RISK OF PAVEMENT LOSS OR COLLAPSE OF ANY PROPERTY DUE TO EXCESSIVE WATER AND TRENCH INSTABILITY. WHEN SUCH CONDITIONS DO ARISE DURING UTILITY CONSTRUCTION, THE CONTRACTOR SHALL CEASE EXCAVATION AND TAKE ACTION TO STABILIZE THE UTILITY TRENCH. ARTESIAN'S INSPECTOR MAY REQUIRE WELL POINTS TO BE INSTALLED BEFORE EXCAVATION MAY PROCEED. THE CONTRACTOR IS RESPONSIBLE FOR LICENSING AND PUMPING PERMITS ASSOCIATED WITH THE WELL-POINT DEWATERING. INCLUDE THE COSTS FOR WELL POINT DEWATERING AND PERMITTING IN THE INSTALLATION OF MAINS ON THE BID PROPOSAL FORM.
- CONNECTION TO THE EXISTING WASTEWATER SYSTEM SHALL BE MADE ONLY AFTER THE NEW WASTEWATER SYSTEM HAS BEEN INSTALLED, TESTED, AND APPROVED BY THE ARTESIAN WASTEWATER INSPECTOR.
- CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF EXISTING UTILITIES AT PROPOSED CROSSINGS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES AND PROPOSED MODIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARTESIAN WASTEWATER COMPANY INSPECTOR AT LEAST ONE WEEK PRIOR TO THE PLANNED COMMENCEMENT OF CONSTRUCTION.
- TOPOGRAPHY, PROPERTY BOUNDARIES AND EASEMENTS SHOWN ON THESE PLANS WERE PROVIDED BY FIELD SURVEYS PERFORMED BY DELDOT OR ITS CONSULTANT AND ARE FOR INFORMATIONAL PURPOSES ONLY.
- COORDINATES SHOWN ON THESE DRAWINGS REFER TO THE DELAWARE STATE PLANE COORDINATE SYSTEM NAD 83. ELEVATIONS SHOWN ARE REFERRED TO NAVD 88.
- THIS DRAWING DOES NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE DELAWARE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION STANDARDS, AND SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, REGARDLESS OF ANY INPUT FROM THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE PROPER OWNER AND COORDINATING THE SUPPORT OF ANY UTILITY POLE THAT NEEDS TO BE SUPPORTED DURING THE PIPELINE INSTALLATION. THE LOCATION OF EXISTING AND PROPOSED UTILITY POLES ARE SHOWN ON THE PLANS AND LOCATIONS REQUIRING SUPPORT SHOULD BE APPARENT. THE COST FOR SUPPORTING UTILITY POLES SHALL BE INCLUDED IN THE LUMP SUM BID.

EXISTING FEATURES

AWC WASTEWATER	
	EXISTING SEWER MAIN
	MAIN LINE VALVE
	CASING
	AIR RELEASE VALVE
	AWC EASEMENT LINE
	SEWER MAIN TO BE ABANDONED

DELDOT	
	EXISTING RIGHT-OF-WAY
	EDGE OF PAVEMENT
	EXISTING PROPERTY LINE
	UTILITY POLE & GUY WIRE

UTILITY	
	COMMUNICATIONS - UNDERGROUND
	ELECTRIC - DELAWARE ELECTRIC COOP
	ARTESIAN WATER - DIP MAIN
	TELEPHONE - VERIZON
	SANITARY - SUSSEX COUNTY

PROPOSED FEATURES

AWC WASTEWATER	
	SEWER MAIN
	MAIN LINE VALVE
	CAP
	SLEEVE
	CASING
	VERTICAL BEND (90° OR 45°)
	HORIZONTAL BEND
	TEE
	REDUCER
	AIR RELEASE VALVE
	WYE FITTING

DELDOT	
	LIMITS OF CONSTRUCTION
	CLEAR ZONE
	PRIVATE EASEMENT
	TEMPORARY CONSTRUCTION EASEMENT
	PROPOSED RIGHT-OF-WAY
	UTILITY POLE
	DRAINAGE INLET
	PIPE & DIRECTIONAL FLOW ARROW

EROSION & SEDIMENT CONTROL	
	SILT FENCE
	LIMIT OF DISTURBANCE
	STABILIZED CONSTRUCTION ENTRANCE
	INLET PROTECTION

EACH EXISTING UTILITY IS LABELED WITH AN ASCE QUALITY LEVEL. BELOW ARE THE LEVELS AND WHAT THEY REPRESENT:

QUALITY LEVEL A - PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE AND SUBSEQUENT MEASUREMENT OF SUBSURFACE UTILITIES, USUALLY AT A SPECIFIC POINT. EXAMPLE: COM-C (A)

QUALITY LEVEL B - INFORMATION OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE UTILITIES. EXAMPLE: COM-C (B)

QUALITY LEVEL C - INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGEMENT IN CORRELATING THIS INFORMATION TO QUALITY LEVEL D INFORMATION. EXAMPLE: COM-C (C)

QUALITY LEVEL D - INFORMATION DERIVED FROM EXISTING RECORDS OR ORAL RECOLLECTIONS. INFO IS NOT DELIVERED BY A SUE CONSULTANT IN ACCORDANCE WITH ASCE STANDARDS, THEN ALL LINENWORK SHALL BE SHOWN AS OLD. EXAMPLE: COM-C (D)



5/1/2026



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ADDENDUMS / REVISIONS

SEMI-FINAL: 2/24/2026

CAVE NECK ROAD, HUDSON AND SWEETBRIAR ROADS INTERSECTION IMPROVEMENTS

DELDOT CONTRACT	AWC PROJECT NO.	3006484
T202104304	DESIGNED BY: EZ	
COUNTY	CHECKED BY: WFT	
SUSSEX		

GENERAL NOTES

SHEET NO.

2

TOTAL SHTS.

29

GENERAL NOTES CONT.

EROSION AND SEDIMENT CONTROL SEQUENCE OF CONSTRUCTION

1. NOTIFY THE SUSSEX CONSERVATION DISTRICT SEDIMENT AND STORMWATER PROGRAM (THE AGENCY) IN WRITING AT LEAST FIVE (5) DAYS PRIOR TO THE START OF CONSTRUCTION. FAILURE TO DO SO CONSTITUTES A VIOLATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLAN.
2. PRIOR TO ANY CLEARING, INSTALLATION OF SEDIMENT CONTROL MEASURES OR GRADING, A PRE-CONSTRUCTION MEETING MUST BE SCHEDULED AND CONDUCTED WITH THE AGENCY CONSTRUCTION SITE REVIEWER. THE CONTRACTOR AND CERTIFIED CONSTRUCTION REVIEWER ARE REQUIRED TO BE IN ATTENDANCE AT THE PRE-CONSTRUCTION MEETING; THE DESIGNER IS RECOMMEND TO ATTEND.
3. CLEARLY MARK THE LIMITS OF CONSTRUCTION AS SHOWN BY THESE PLANS. CLEAR AND GRUB AREAS NECESSARY FOR PERIMETER CONTROLS AND UTILITY INSTALLATION.
4. INSTALL SILT FENCE AT THE LOCATIONS SHOWN ON THE PLANS ESPECIALLY DOWNSTREAM OF ANY PROPOSED DIRECTIONAL DRILL LOCATIONS. REFER TO THE STAND DETAIL FOR MINIMUM SPECIFICATIONS. ALL PERIMETER CONTROLS ARE TO BE REVIEWED BY THE AGENCY CONSTRUCTION SITE REVIEWER AND APPROVED PRIOR TO PROCEEDING WITH FURTHER SITE DISTURBANCE OR CONSTRUCTION.
5. INSTALL STABILIZED CONSTRUCTION ENTRANCES PER STANDARD DETAIL FOR MINIMUM SPECIFICATIONS. INSTALL INLET PROTECTION AND CULVERT INLET PROTECTION AT LOCATIONS SHOWN ON THE PLANS PER STANDARD DETAIL FOR MINIMUM SPECIFICATIONS.
6. INSTALL SEWER FORCE MAIN AND APPURTENANCES PER ARTESIAN WASTEWATER STANDARDS AND SPECIFICATIONS. ONLY ENOUGH TRENCH SHOULD BE EXCAVATED WHICH CAN BE BACKFILLED DAILY. EXCAVATED TRENCH MATERIAL SHOULD BE PLACED ON THE HIGH SIDE OF THE TRENCH.
7. IMMEDIATELY FOLLOWING UTILITY INSTALLATION, THE TRENCH SHALL BE BACKFILLED, COMPACTED, AND STABILIZED AT THE END OF EACH WORKING DAY. FULL TRENCH COMPACTION IS REQUIRED.
8. THE CONTRACTOR SHALL AT ALL TIMES PROTECT AGAINST SEDIMENT OR DEBRIS LADEN RUNOFF OR WIND FROM LEAVING THE SITE. PERIMETER CONTROLS SHOULD BE CHECKED DAILY AND ADJUSTED AND/OR REPAIRED TO FULLY CONTAIN AND CONTROL SEDIMENTATION ON THE SITE. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED HALF OF THE EFFECTIVE CAPACITY OF THE CONTROL. IN ADDITION, THE CONTRACTOR MAY NEED TO ADJUST OR REPAIR MEASURES IN TIMES OF ADVERSE WEATHER CONDITIONS, OR AS DIRECTED BY THE AGENCY CONSTRUCTION SITE REVIEWER.
9. NOTIFY THE PERSON RESPONSIBLE FOR THE STORMWATER SYSTEM CONSTRUCTION REVIEW AT LEAST THREE (3) DAYS PRIOR TO THE START OF THE STORMWATER SYSTEM CONSTRUCTION; STORMWATER FACILITIES MUST BE REVIEWED THROUGHOUT THEIR CONSTRUCTION.
10. ANY DITCHES OR DRAINAGE WAYS DISTURBED DURING CONSTRUCTION WILL BE RESTORED TO ORIGINAL CONDITION IMMEDIATELY.
11. APPLY STRAW MULCH AND CRIMP STRAW AS TEMPORARY FOR STABILIZATION PRIOR TO FARMING OPERATIONS.
12. EROSION AND SEDIMENT CONTROL DEVICES SHOULD BE REMOVED ONLY AFTER WORK IN AN AREA HAS BEEN COMPLETED AND STABILIZED, WITH WRITTEN APPROVAL FROM THE AGENCY CONSTRUCTION SITE REVIEWER.
13. ONLY AFTER RECEIVING APPROVAL, PROCEED TO REMOVE THE TEMPORARY EROSION MEASURES.
14. PRIOR TO COMMENCING A NEW PHASE OF CONSTRUCTION, THE CONTRACTOR SHALL RECEIVE APPROVAL FROM THE AGENCY CONSTRUCTION SITE REVIEWER THAT THE PREVIOUS PHASE HAS BEEN SUFFICIENTLY STABILIZED.
15. ALL PERIMETER CONTROLS ARE TO BE REVIEWED BY THE AGENCY CONSTRUCTION SITE REVIEWER AND APPROVED PRIOR TO PROCEEDING WITH FURTHER SITE DISTURBANCE OR CONSTRUCTION.
16. THE TERMINATION OF THE CONSTRUCTION GENERAL PERMIT WILL REQUIRE SUBMISSION AND ACCEPTANCE OF THE POST CONSTRUCTION VERIFICATION DOCUMENTS, INCLUDING FINAL STABILIZATION THROUGHOUT THE SITE. ALL ELEMENTS OF THE SEDIMENT AND STORMWATER MANAGEMENT PLAN IMPLEMENTED, AND ACCEPTANCE OF THE FINAL OPERATION AND MAINTENANCE PLAN.

STORM DRAINAGE:

1. IT IS THE CONTRACTORS RESPONSIBILITY TO REPAIR OR REPLACE ANY STORM DRAINAGE THAT IS DAMAGED DURING CONSTRUCTION.

TRAFFIC CONTROL:

1. CONTRACTOR IS RESPONSIBLE TO FOLLOW THE GUIDELINE SET FORTH IN THE LATEST VERSION OF THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND DIRECTIVES SET FORTH BY THE DELAWARE DEPARTMENT OF TRANSPORTATION.



5/1/2026



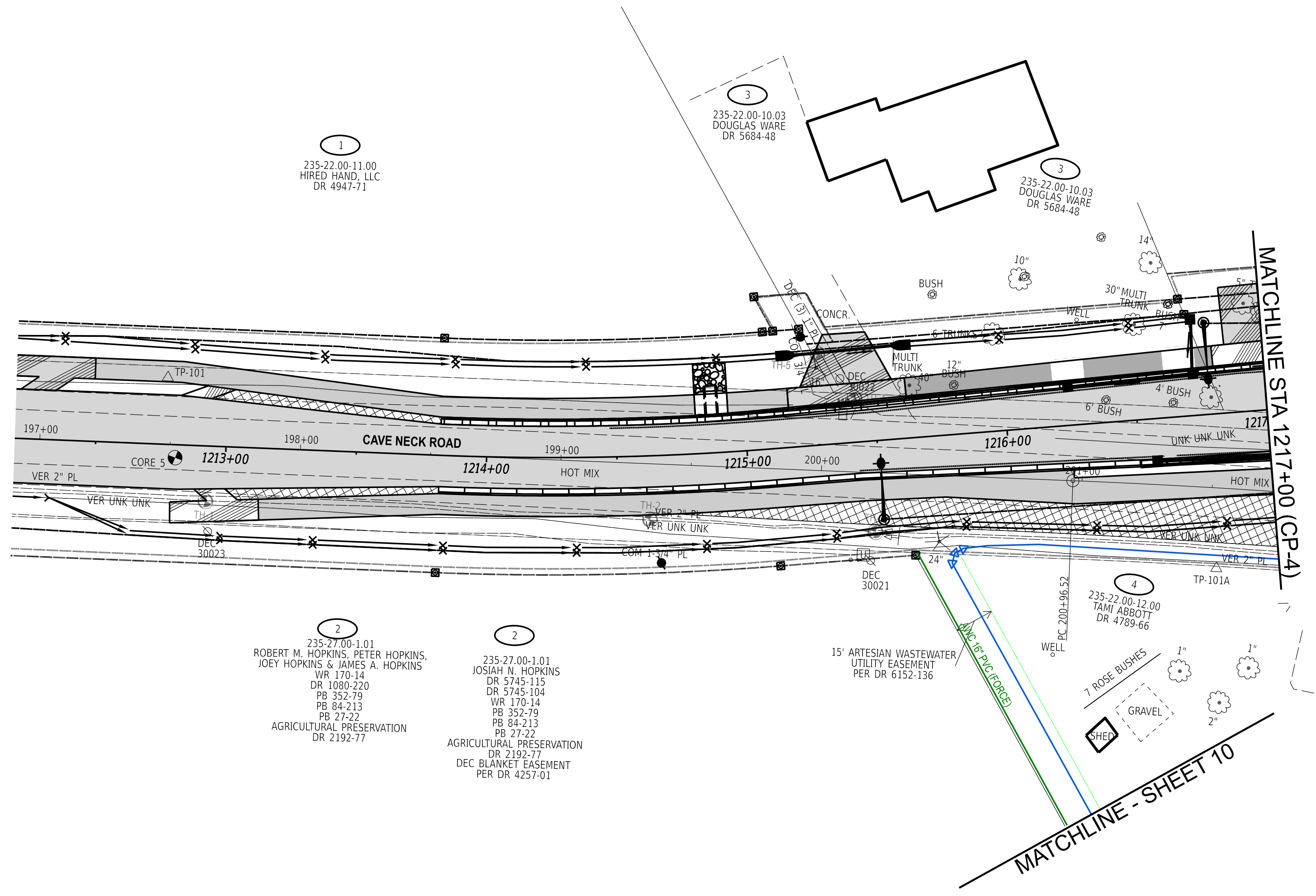
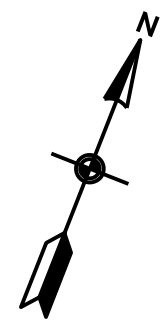
ADDENDUMS / REVISIONS	
	SEMI-FINAL: 2/24/2026

CAVE NECK ROAD, HUDSON AND SWEETBRIAR ROADS INTERSECTION IMPROVEMENTS

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T202104304	DESIGNED BY:	EZ
COUNTY	CHECKED BY:	WFT
SUSSEX		

GENERAL NOTES

SHEET NO.	3
TOTAL SHTS.	29



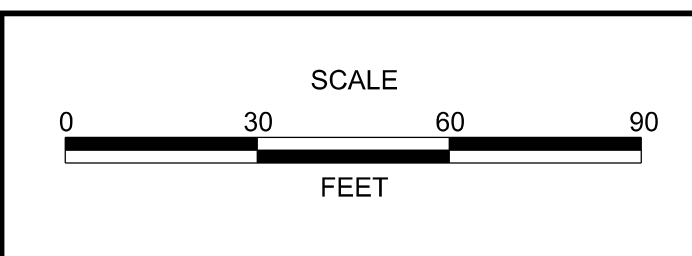
CONTRACTOR TO DETERMINE LOCATION AND DEPTH OF EXISTING UTILITIES IN THE FIELD.



5/1/2026

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ARTESIAN WASTEWATER MANAGEMENT, INC.
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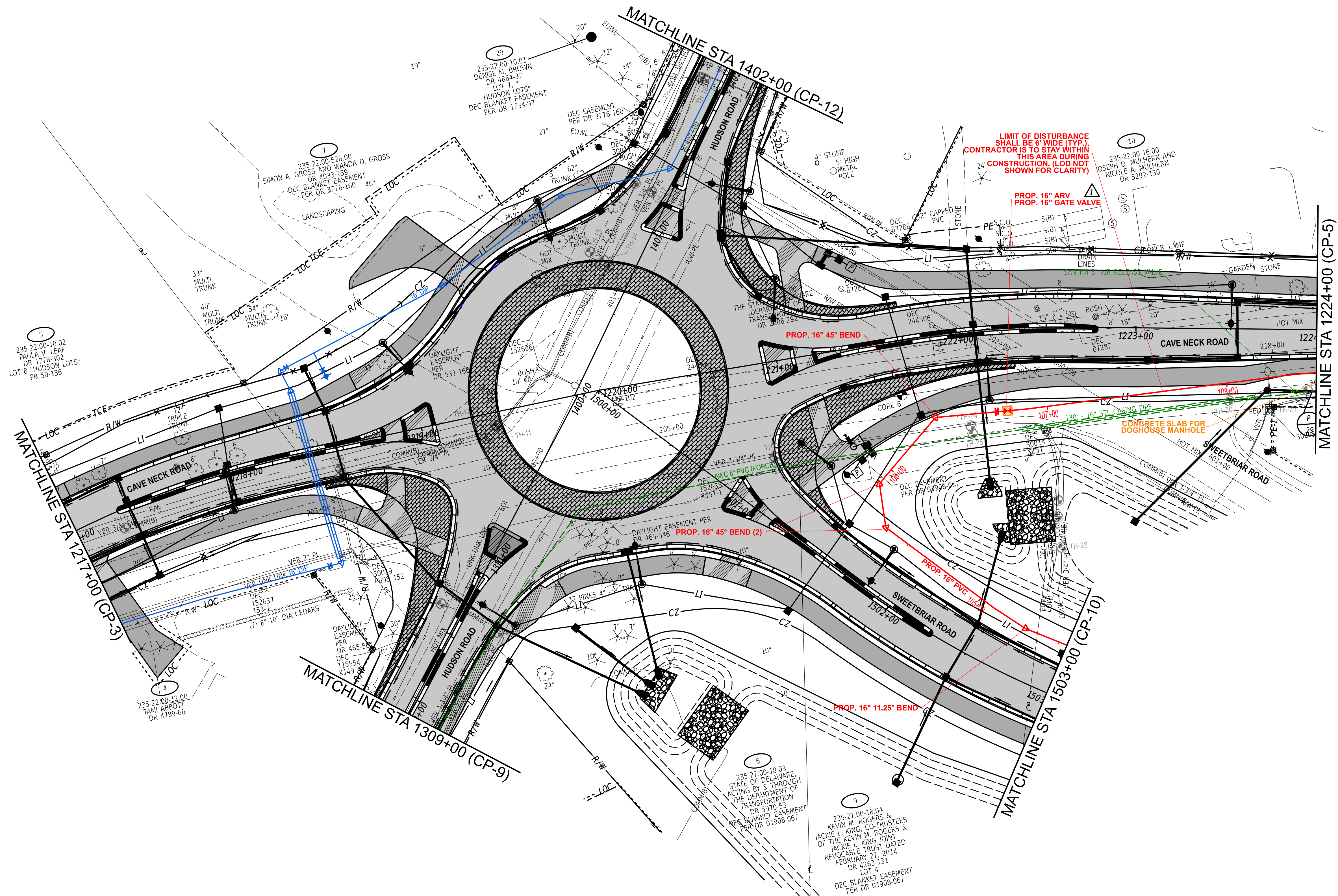
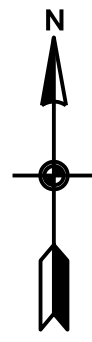
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COUNTY SUSSEX	DESIGNED BY: EZ
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CONSTRUCTION PLAN	SHEET NO. 4
	TOTAL SHTS. 29



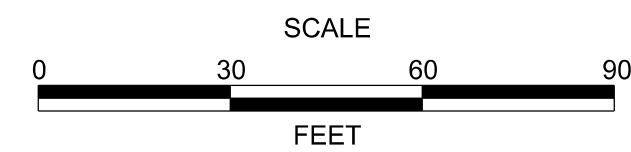
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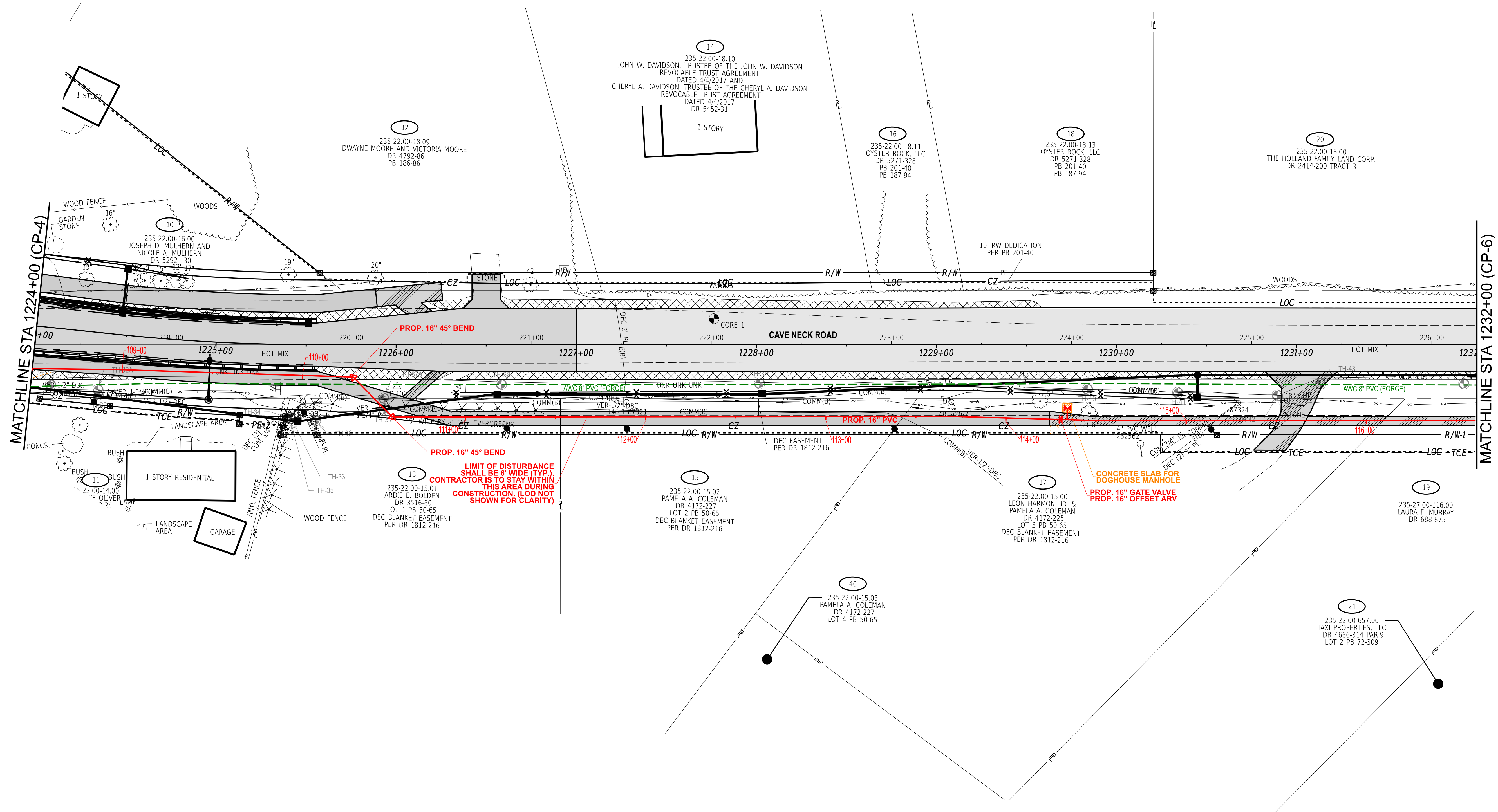
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INTERSECTION IMPROVEMENTS**

DELDOT CONTRACT
T202104304
COUNTY
SUSSEX

AWC PROJECT NO. 3006484
DESIGNED BY: EZ
CHECKED BY: WFT

CONSTRUCTION PLAN

SHEET NO.
5
TOTAL SHTS.
29



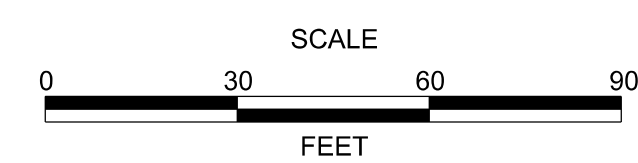
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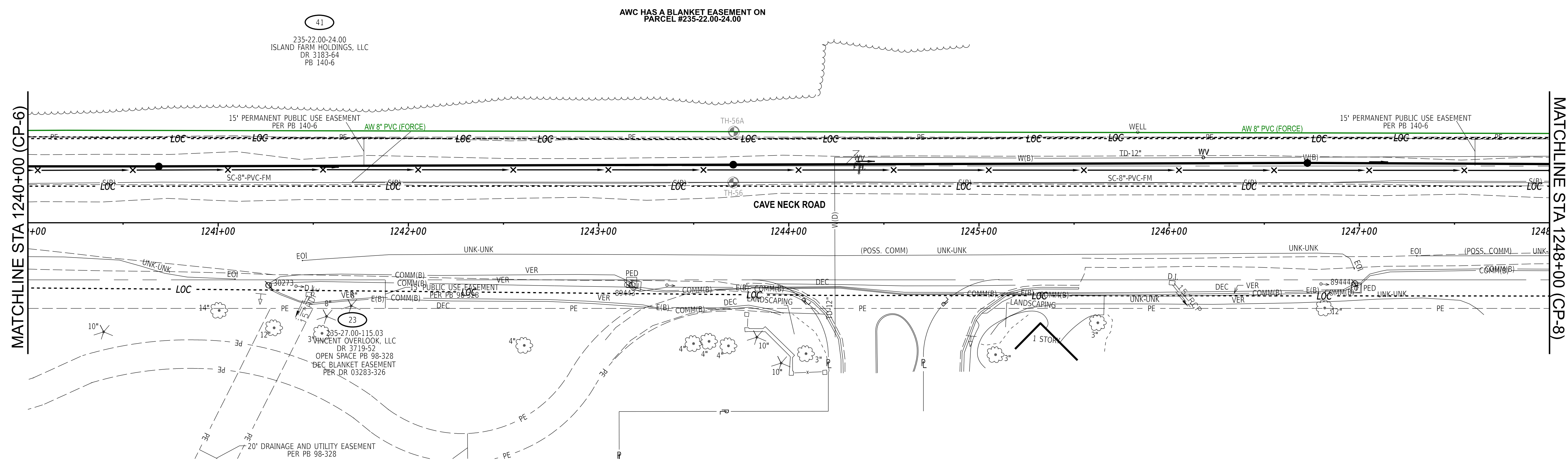


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CONSTRUCTION PLAN

SHEET NO.	6
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CONTRACTOR TO DETERMINE LOCATION AND DEPTH OF EXISTING UTILITIES IN THE FIELD.



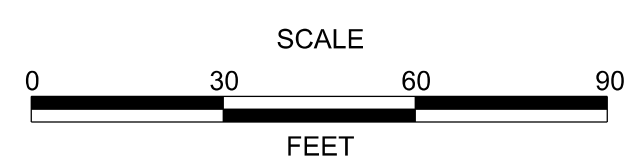
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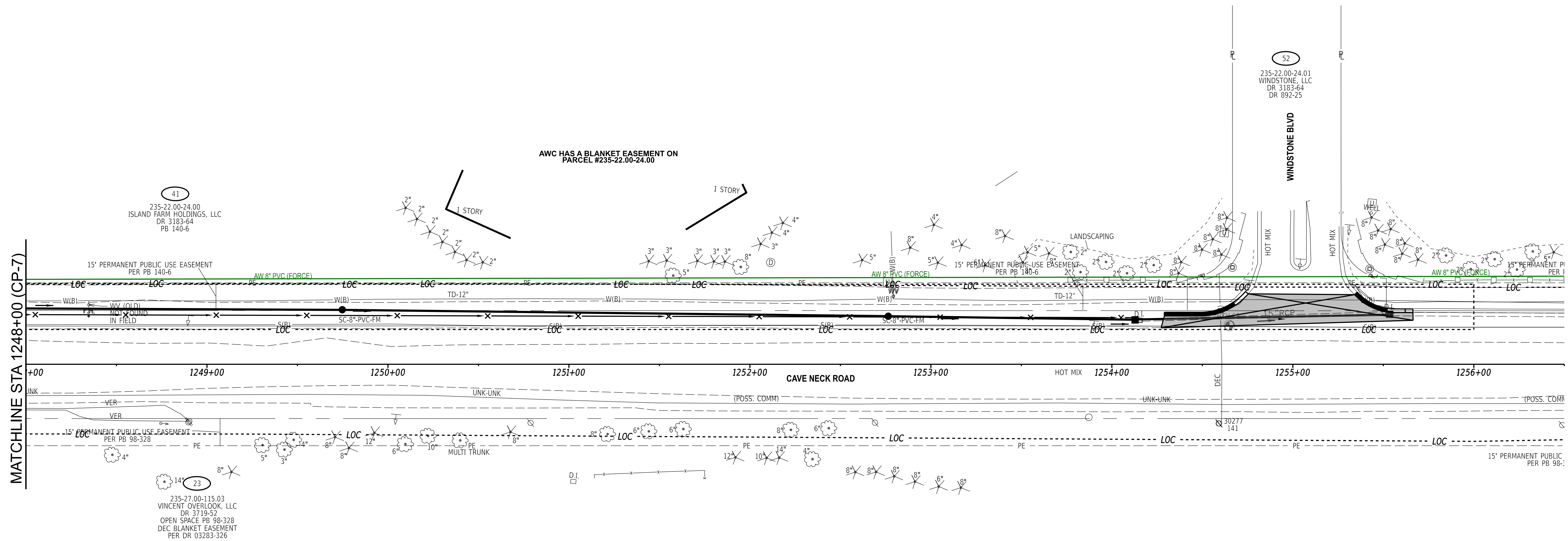


CAVE NECK ROAD, HUDSON AND SWEETBRIAR ROADS INTERSECTION IMPROVEMENTS

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CONSTRUCTION PLAN

SHEET NO.	8
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CONTRACTOR TO DETERMINE LOCATION AND DEPTH OF EXISTING UTILITIES IN THE FIELD.



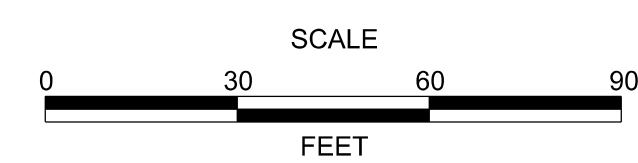
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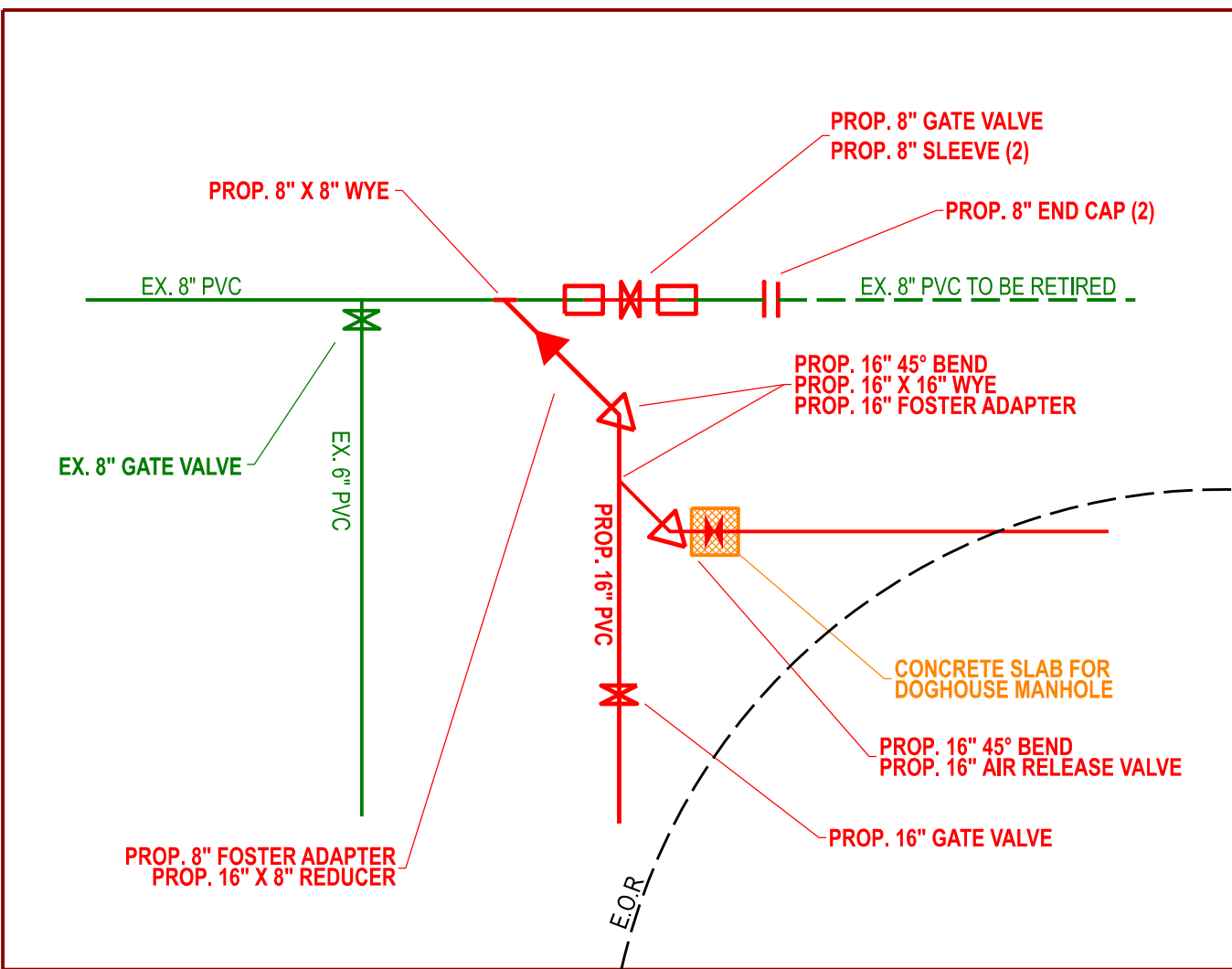
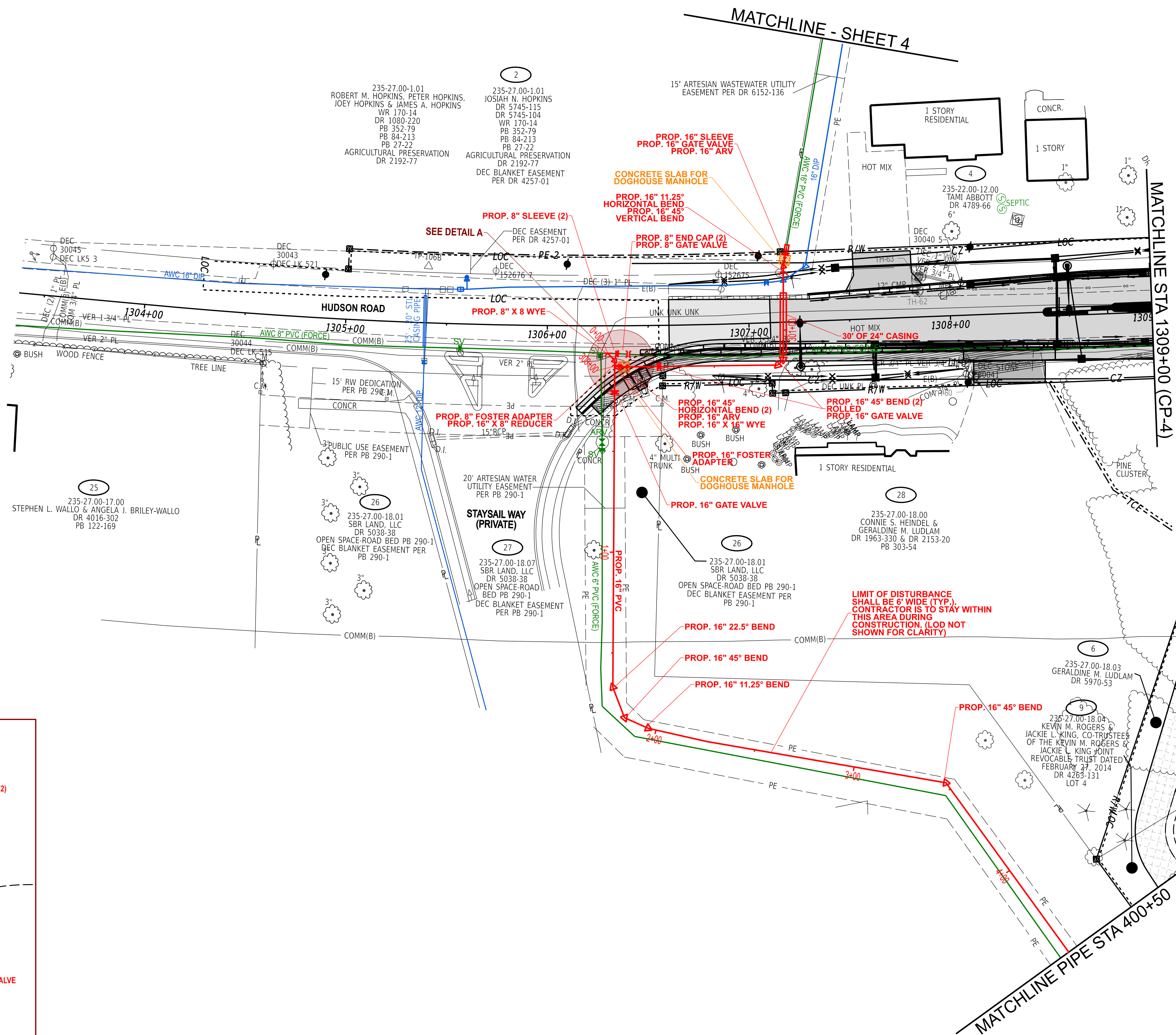
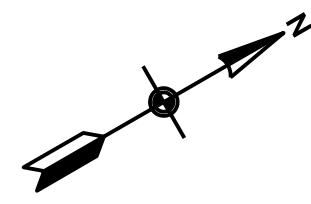


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CONSTRUCTION PLAN

SHEET NO.	9
TOTAL SHTS.	29



DRAWING: N.T.S

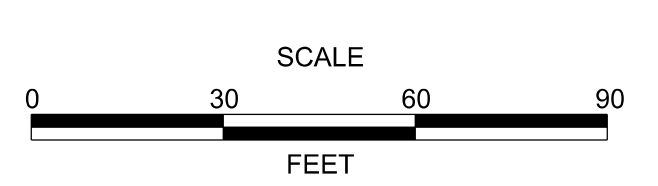
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5/1/2026

ARTESIAN
ARTESIAN WASTEWATER MANAGEMENT, INC.
664 Churchmans Road
Newark, Delaware 19702
P.O. Box 15004, Wilmington, Delaware 19850
Phone: (302) 453-6900 Fax: (302) 453-5800

ADDENDUMS / REVISIONS	
FINAL: 2/27/2026	

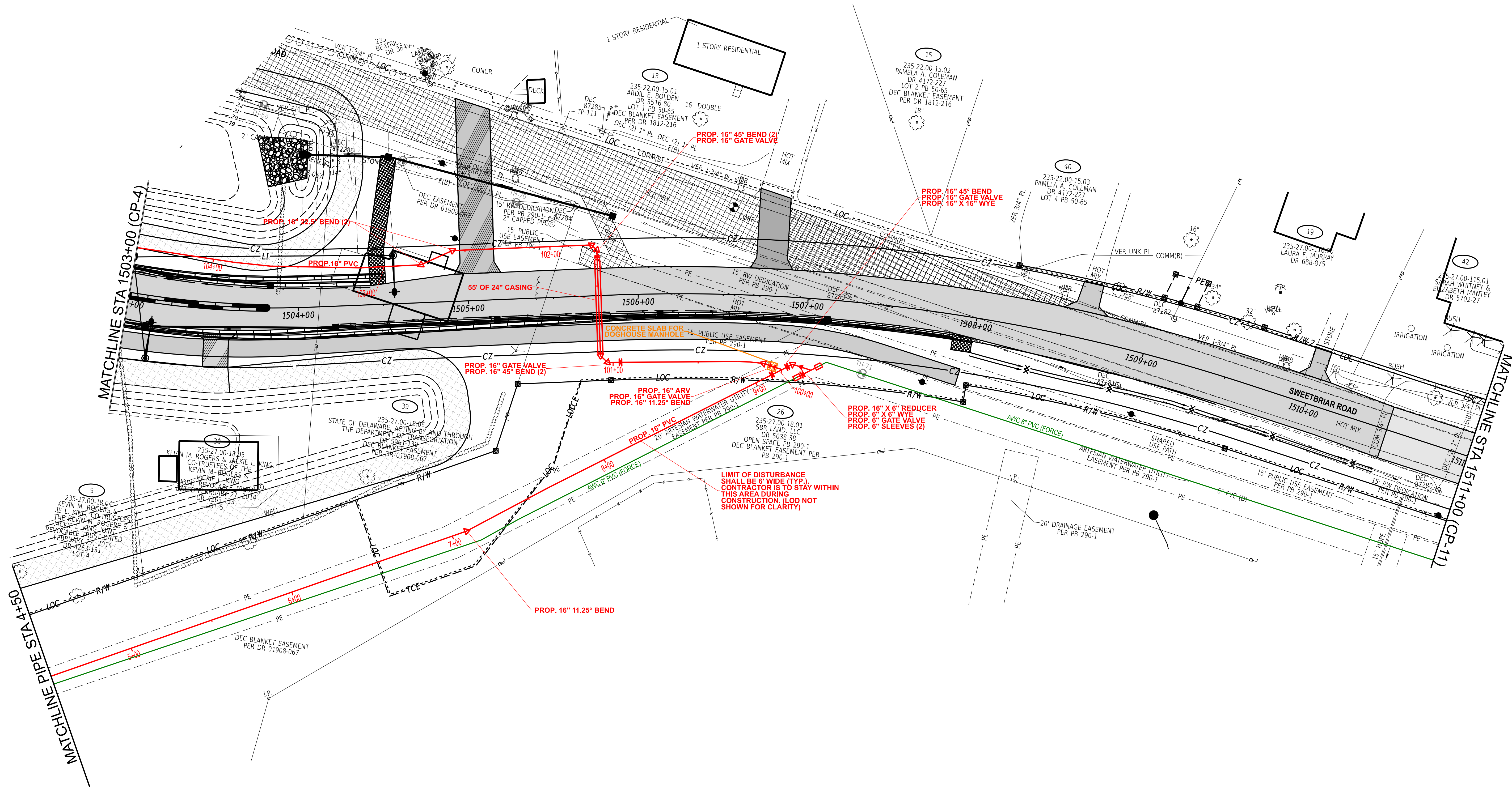
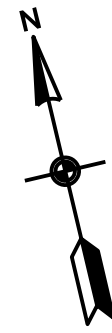


CAVE NECK ROAD, HUDSON AND SWEETBRIAR ROADS INTERSECTION IMPROVEMENTS

DELDOT CONTRACT	AWC PROJECT NO.	3006484
T202104304	DESIGNED BY: EZ	
COUNTY	CHECKED BY: WFT	
SUSSEX		

CONSTRUCTION PLAN

SHEET NO.	10
TOTAL SHTS.	10
	29



CONTRACTOR TO DETERMINE LOCATION AND DEPTH OF EXISTING UTILITIES IN THE FIELD.



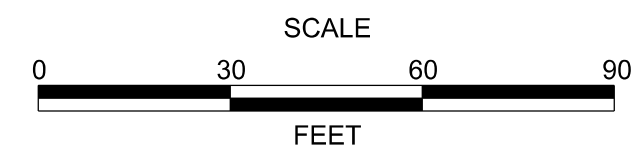
5/1/2026



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ADDENDUMS / REVISIONS

FINAL: 2/27/2026

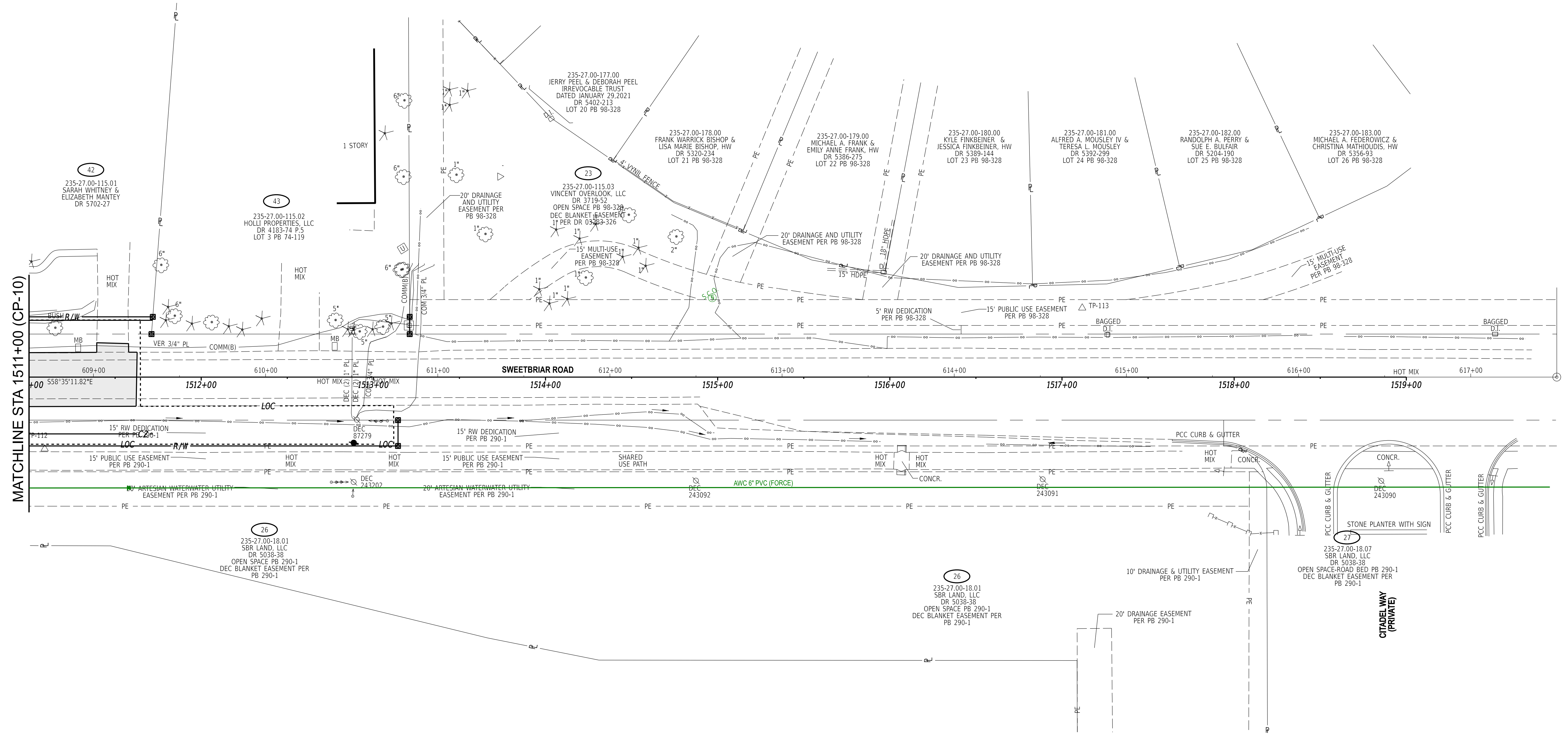
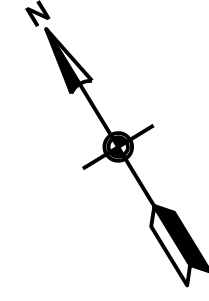


**CAVE NECK ROAD, HUDSON
AND SWEETBRIAR ROADS
INTERSECTION IMPROVEMENTS**

DELDOT CONTRACT	AWC PROJECT NO.	3006484
T202104304	DESIGNED BY:	EZ
COUNTY	CHECKED BY:	WFT
SUSSEX		

CONSTRUCTION PLAN

SHEET NO.	11
TOTAL SHTS.	29



CONTRACTOR TO DETERMINE LOCATION AND DEPTH OF EXISTING UTILITIES IN THE FIELD.



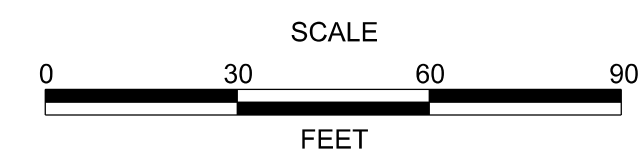
5/1/2026



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ADDENDUMS / REVISIONS

FINAL: 2/27/2026

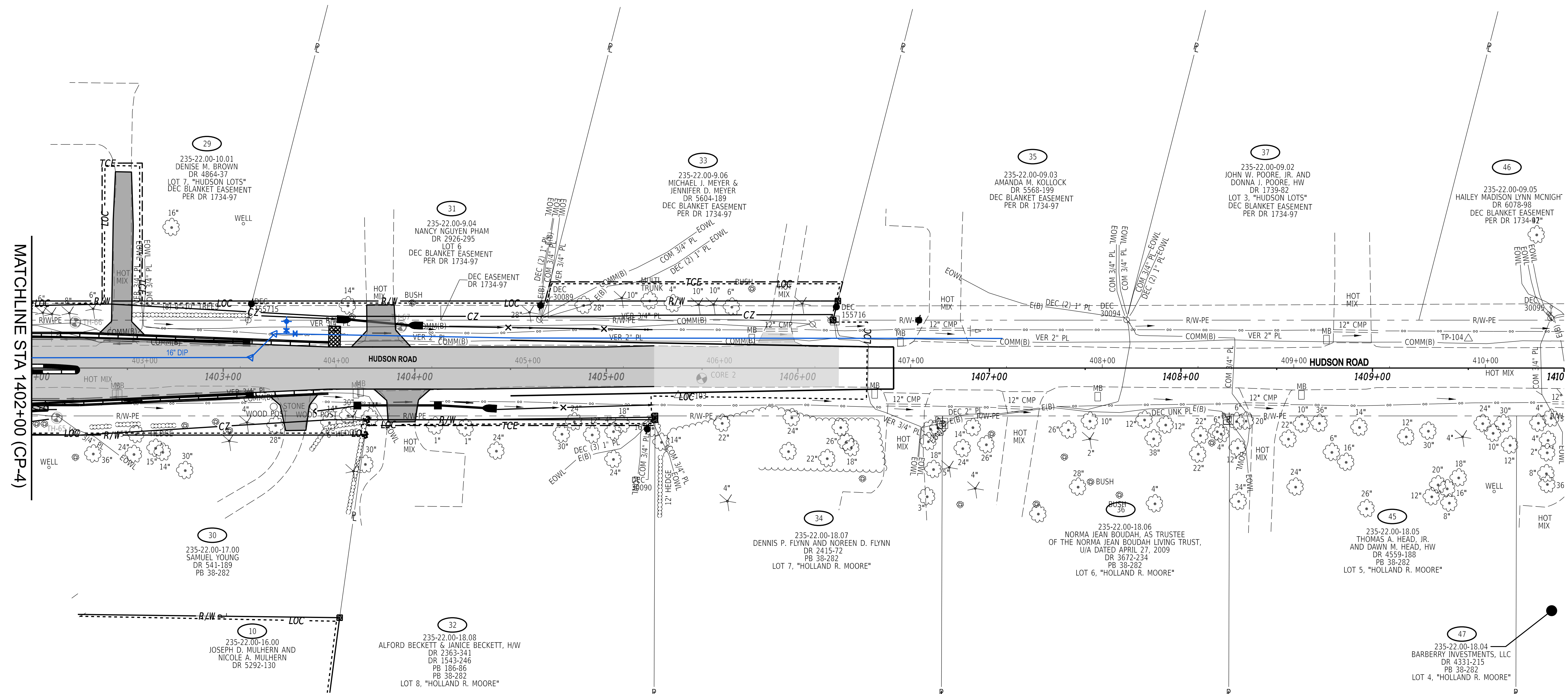
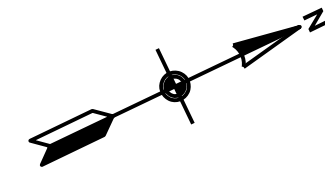


CAVE NECK ROAD, HUDSON AND SWEETBRIAR ROADS INTERSECTION IMPROVEMENTS

DELDOT CONTRACT	AWC PROJECT NO.	3006484
T202104304	DESIGNED BY:	EZ
COUNTY	CHECKED BY:	WFT
SUSSEX		

CONSTRUCTION PLAN

SHEET NO.	12
TOTAL SHTS.	29



CONTRACTOR TO DETERMINE LOCATION AND DEPTH OF EXISTING UTILITIES IN THE FIELD.



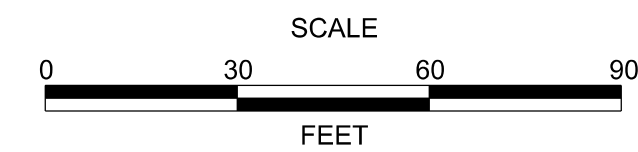
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ADDENDUMS / REVISIONS

FINAL: 2/27/2026

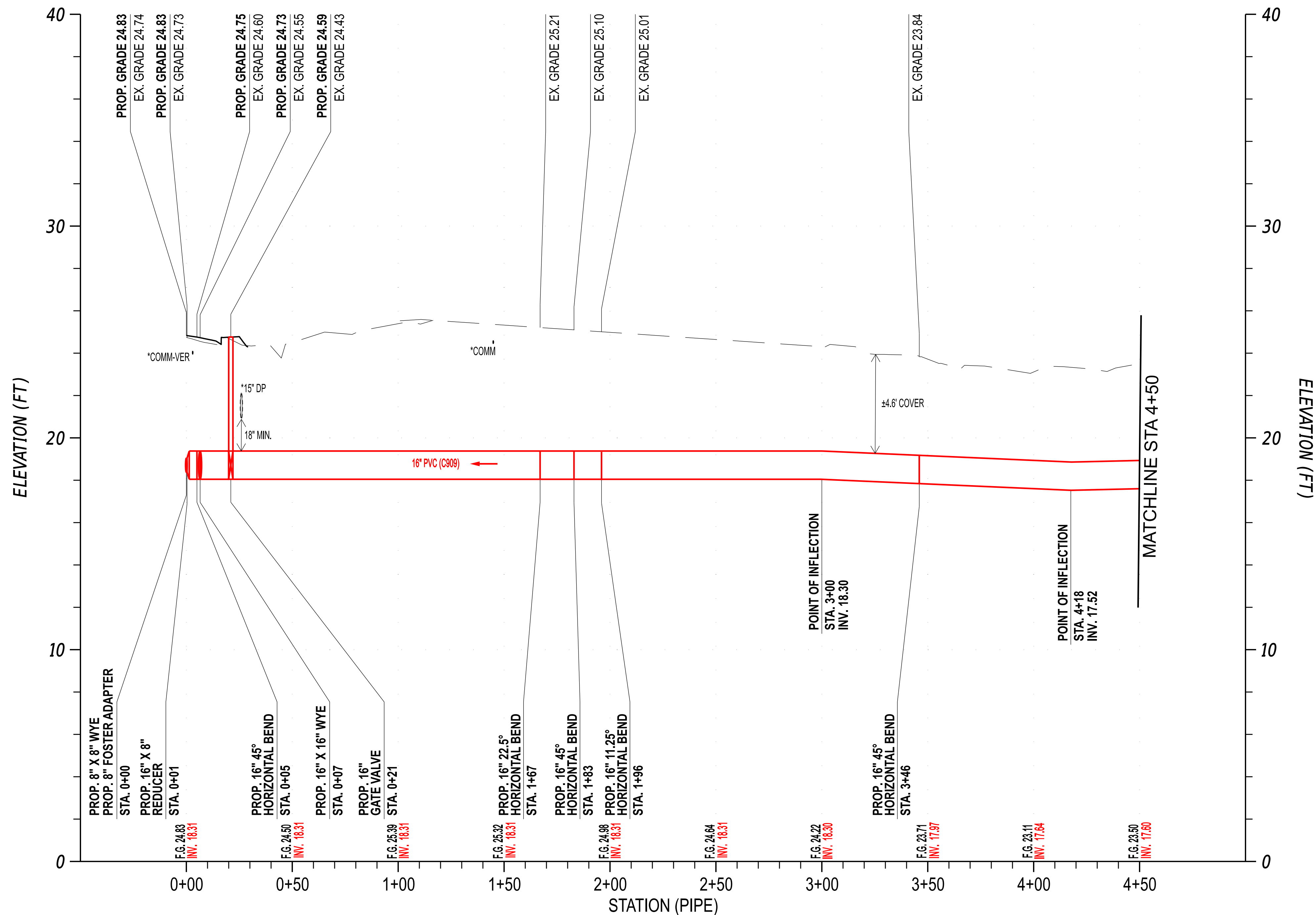


**CAVE NECK ROAD, HUDSON
AND SWEETBRIAR ROADS
INTERSECTION IMPROVEMENTS**

DELDOT CONTRACT	AWC PROJECT NO.	3006484
T202104304	DESIGNED BY:	EZ
COUNTY	CHECKED BY:	WFT
SUSSEX		

CONSTRUCTION PLAN

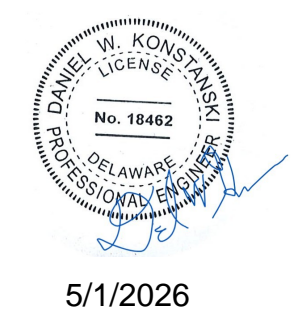
SHEET NO.	13
TOTAL SHTS.	29



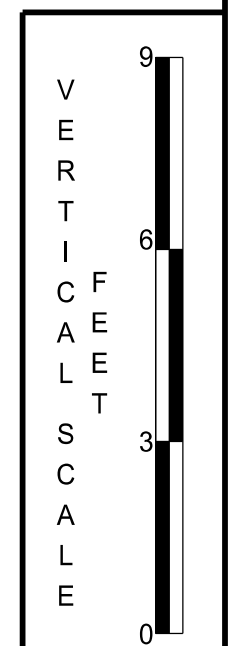
ARTESIAN WATER ALIGNMENT - 16" PVC (909) CAVE NECK ROAD,
HUDSON ROAD, AND SWEETBRIAR ROAD INTERSECTION IMPROVEMENTS
HUDSON ROAD STA. 1306+30 (14' R) TO SWEETBRIAR ROAD STA. 1503+95 (228' R)

- - EXISTING UTILITY
- - PROPOSED UTILITY

*SIZE AND/OR DEPTH UNKNOWN; CONTRACTOR TO DETERMINE EXACT LOCATION IN FIELD.



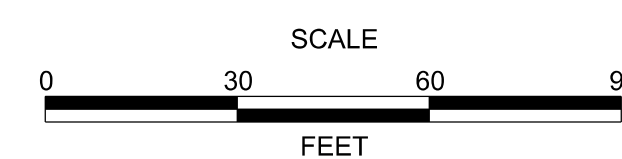
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ADDENDUMS / REVISIONS

FINAL: 2/27/2026

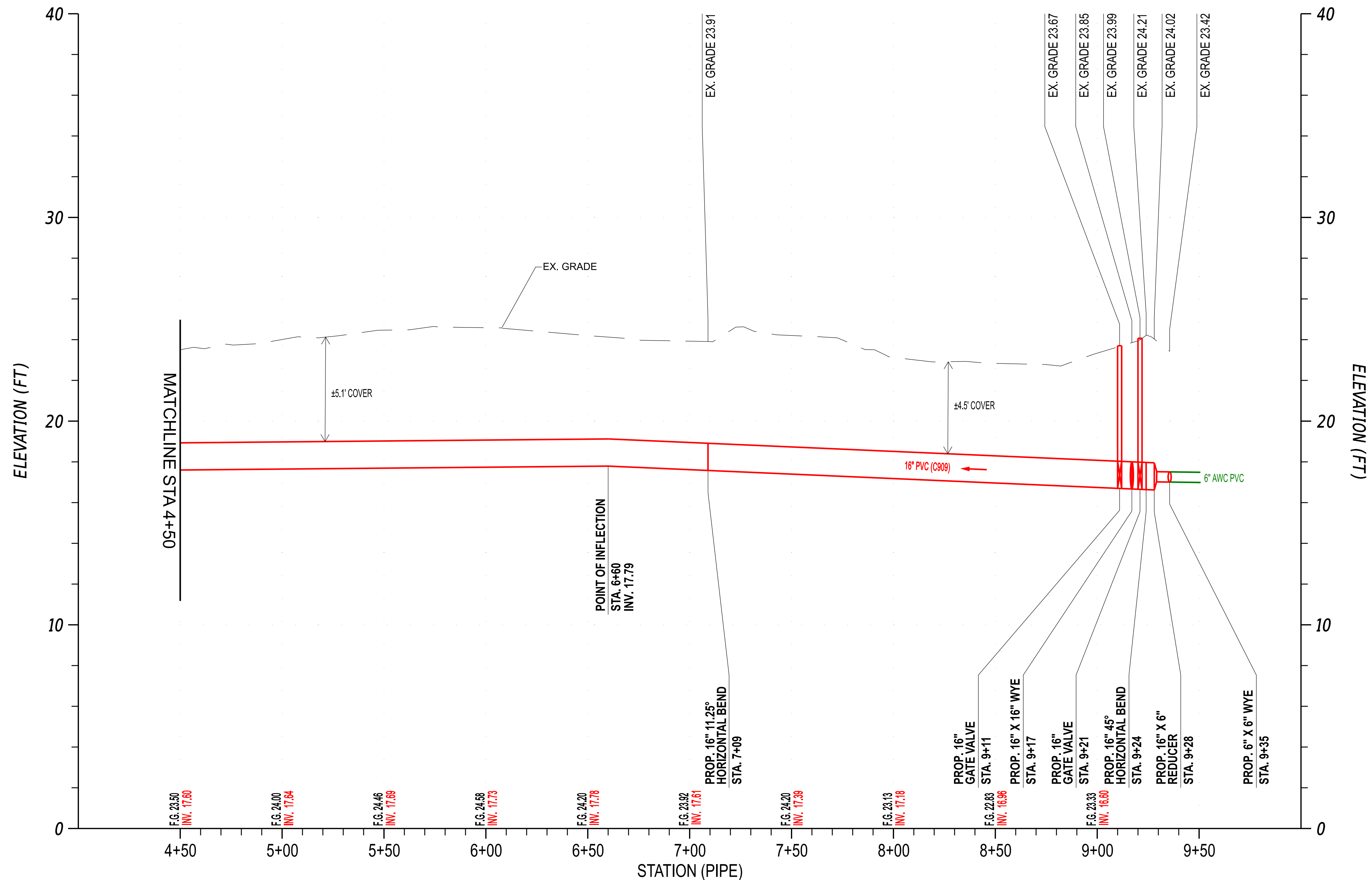


**CAVE NECK ROAD, HUDSON
AND SWEETBRIAR ROADS
INTERSECTION IMPROVEMENTS**

DELDOT CONTRACT T202104304	AWC PROJECT NO. DESIGNED BY: EZ	3006484
COUNTY SUSSEX	CHECKED BY: WFT	

PROFILES

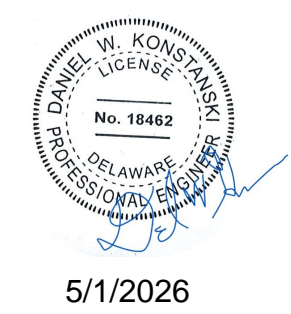
SHEET NO.	14
TOTAL SHTS.	29



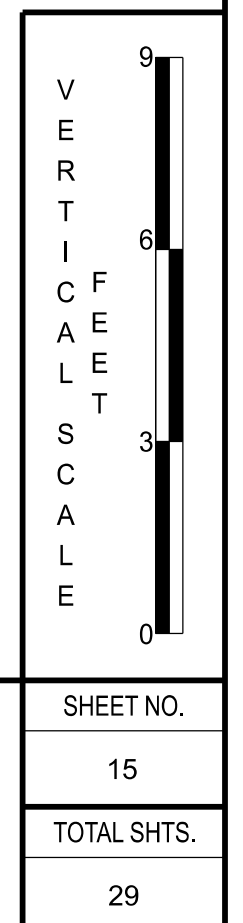
ARTESIAN WATER ALIGNMENT - 16" PVC (909) CAVE NECK ROAD, HUDSON ROAD, AND SWEETBRIAR ROAD INTERSECTION IMPROVEMENTS
 SWEETBRIAR ROAD STA. 1503+95 (228' R) TO SWEETBRIAR ROAD STA. 1507+05 (42' R)

- - EXISTING UTILITY
- - PROPOSED UTILITY

*SIZE AND/OR DEPTH UNKNOWN; CONTRACTOR TO DETERMINE EXACT LOCATION IN FIELD.



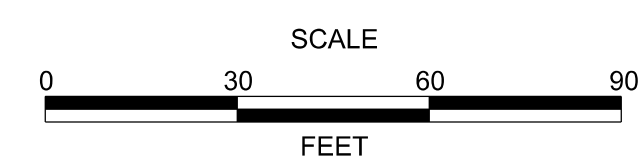
5/1/2026



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ADDENDUMS / REVISIONS

FINAL: 2/27/2026

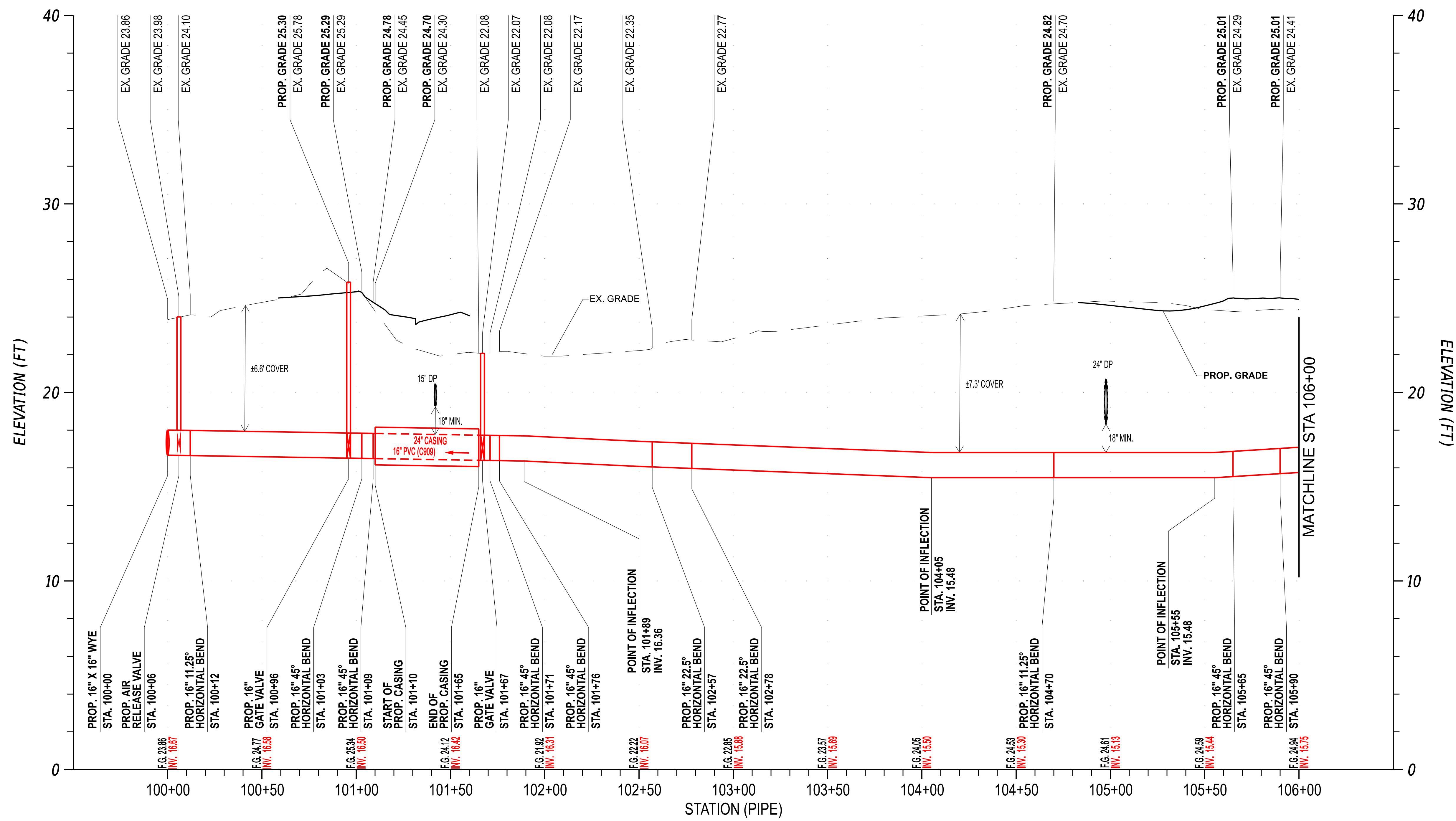


**CAVE NECK ROAD, HUDSON
 AND SWEETBRIAR ROADS
 INTERSECTION IMPROVEMENTS**

DELDOT CONTRACT	AWC PROJECT NO.	3006484
T202104304	DESIGNED BY:	EZ
COUNTY	CHECKED BY:	WFT
SUSSEX		

PROFILES

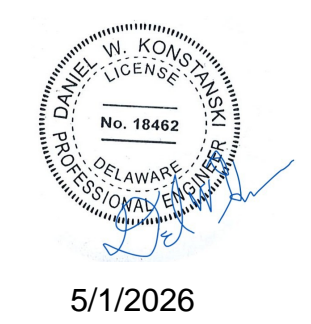
SHEET NO.	15
TOTAL SHTS.	29



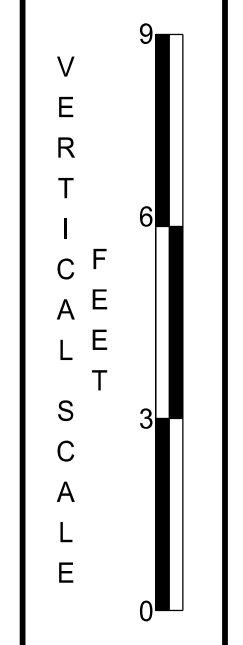
ARTESIAN WATER ALIGNMENT - 16" PVC (909) CAVE NECK ROAD,
 HUDSON ROAD, AND SWEETBRIAR ROAD INTERSECTION IMPROVEMENTS
 SWEETBRIAR ROAD STA. 1506+87 (43' R) TO CAVE NECK ROAD STA. 1221+53 (70' R)

- - EXISTING UTILITY
- - PROPOSED UTILITY

*SIZE AND/OR DEPTH UNKNOWN; CONTRACTOR TO DETERMINE EXACT LOCATION IN FIELD.

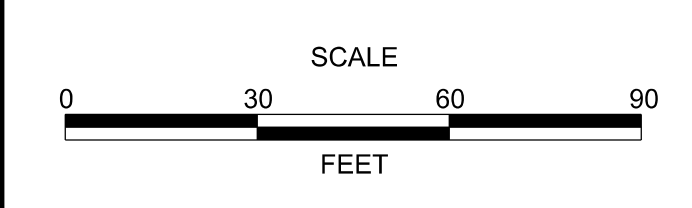


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ADDENDUMS / REVISIONS	
	FINAL: 2/27/2026

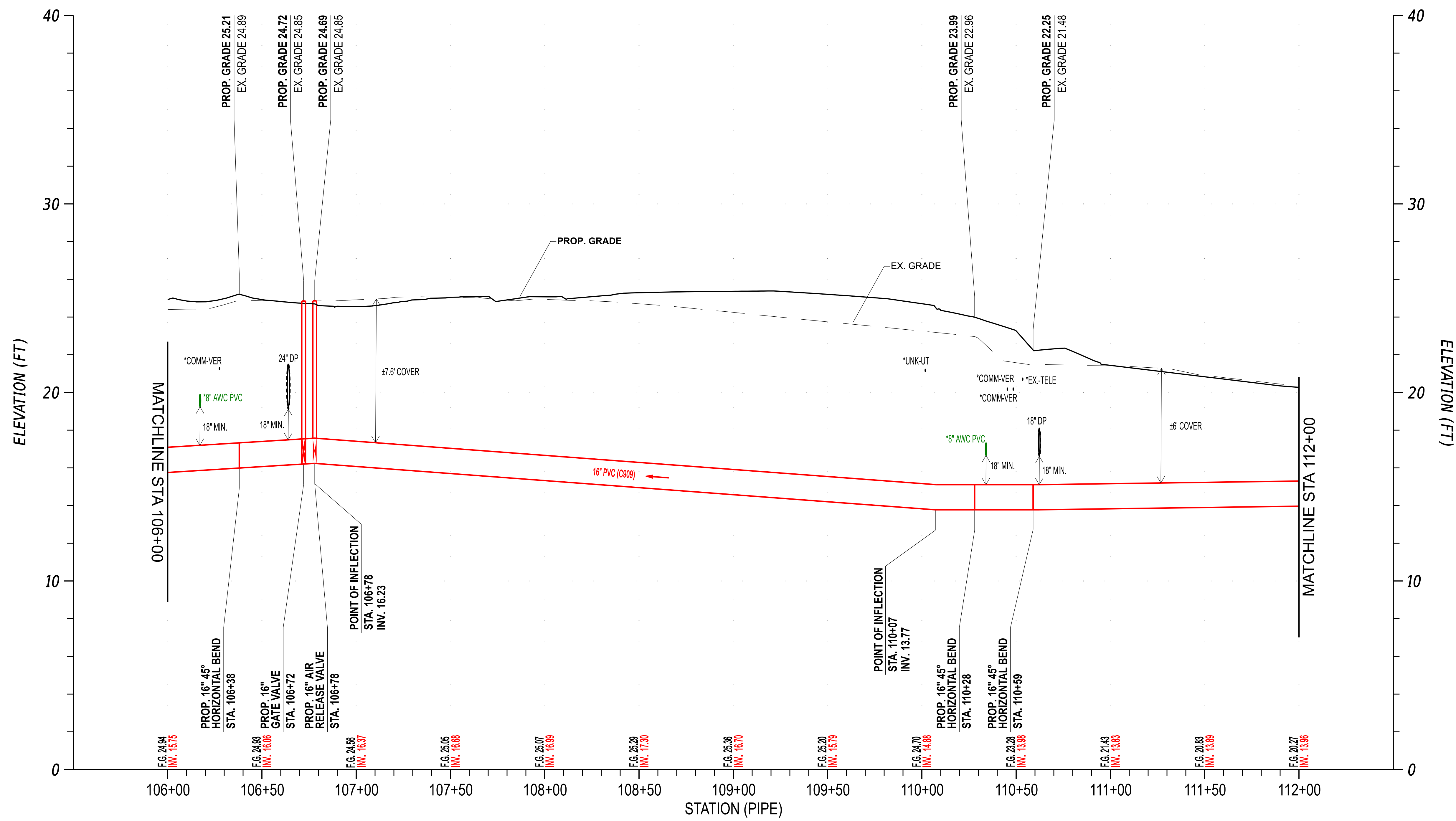


**CAVE NECK ROAD, HUDSON
 AND SWEETBRIAR ROADS
 INTERSECTION IMPROVEMENTS**

DELDOT CONTRACT T202104304	AWC PROJECT NO. 3006484
COUNTY SUSSEX	DESIGNED BY: EZ
	CHECKED BY: WFT

PROFILES

SHEET NO. 16
TOTAL SHTS. 29



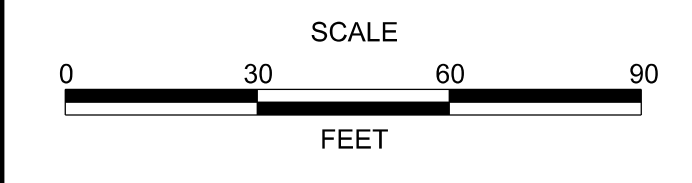
ARTESIAN WATER ALIGNMENT - 16" PVC (909) CAVE NECK ROAD,
 HUDSON ROAD, AND SWEETBRIAR ROAD INTERSECTION IMPROVEMENTS
 CAVE NECK ROAD STA. 1221+53 (70' R) TO CAVE NECK ROAD STA. 1227+39 (40' R)

- - EXISTING UTILITY
- - PROPOSED UTILITY

*SIZE AND/OR DEPTH UNKNOWN; CONTRACTOR TO DETERMINE EXACT LOCATION IN FIELD.



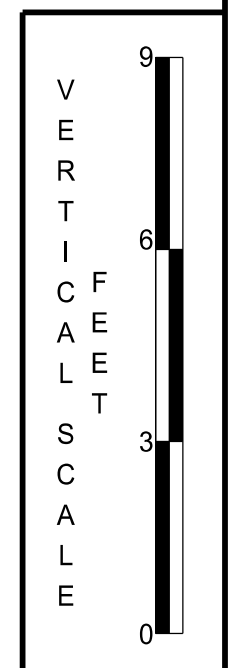
ADDENDUMS / REVISIONS	
	FINAL: 2/27/2026



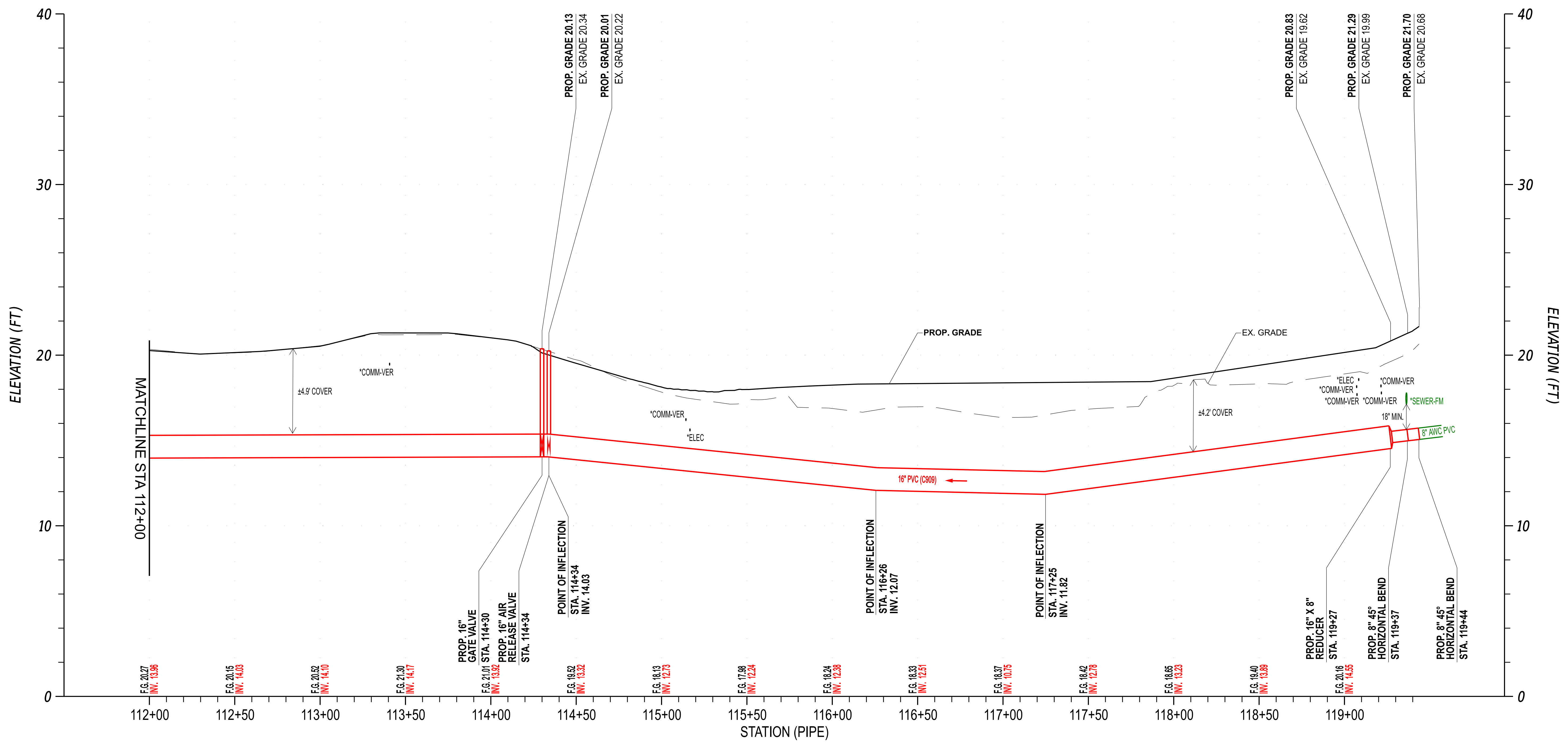
**CAVE NECK ROAD, HUDSON
 AND SWEETBRIAR ROADS
 INTERSECTION IMPROVEMENTS**

DELDOT CONTRACT T202104304	AWC PROJECT NO. 3006484
COUNTY SUSSEX	DESIGNED BY: EZ
	CHECKED BY: WFT

PROFILES



SHEET NO.	17
TOTAL SHTS.	29



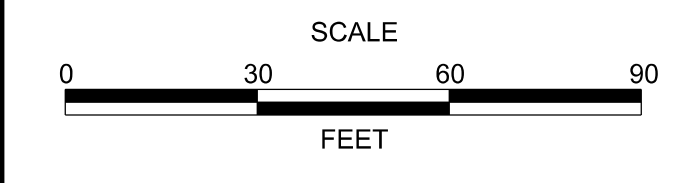
ARTESIAN WATER ALIGNMENT - 16" PVC (909) CAVE NECK ROAD,
HUDSON ROAD, AND SWEETBRIAR ROAD INTERSECTION IMPROVEMENTS
CAVE NECK ROAD STA. 1227+39 (40' R) TO CAVE NECK ROAD STA. 1234+80 (37' R)

- - EXISTING UTILITY
- - PROPOSED UTILITY

*SIZE AND/OR DEPTH UNKNOWN; CONTRACTOR TO DETERMINE EXACT LOCATION IN FIELD.



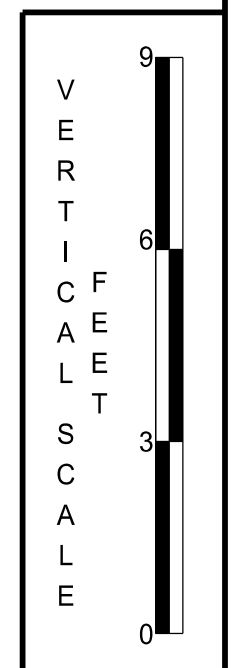
ADDENDUMS / REVISIONS	
	FINAL: 2/27/2026



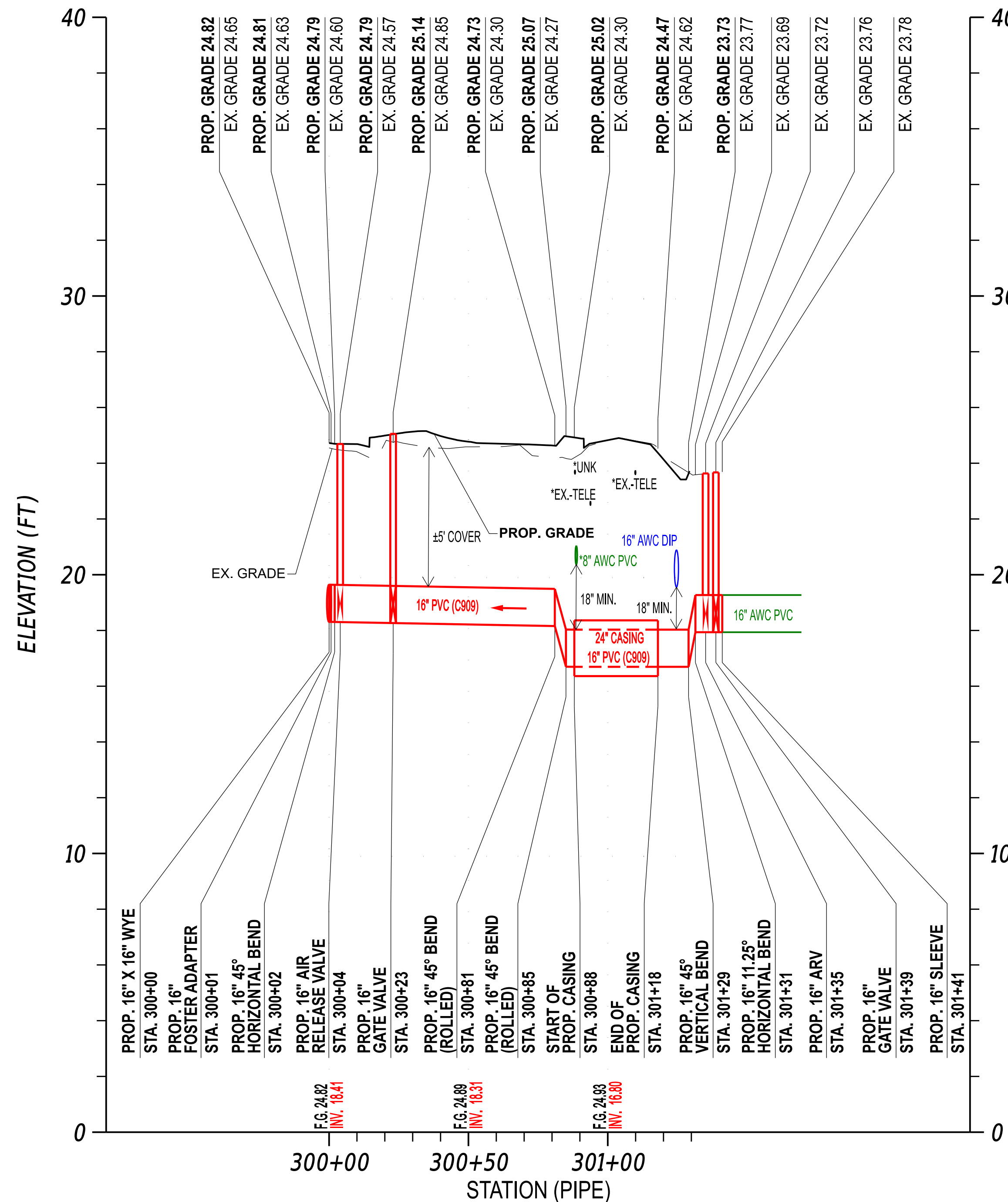
**CAVE NECK ROAD, HUDSON
AND SWEETBRIAR ROADS
INTERSECTION IMPROVEMENTS**

DELDOT CONTRACT T202104304	AWC PROJECT NO. 3006484
COUNTY SUSSEX	DESIGNED BY: EZ
	CHECKED BY: WFT

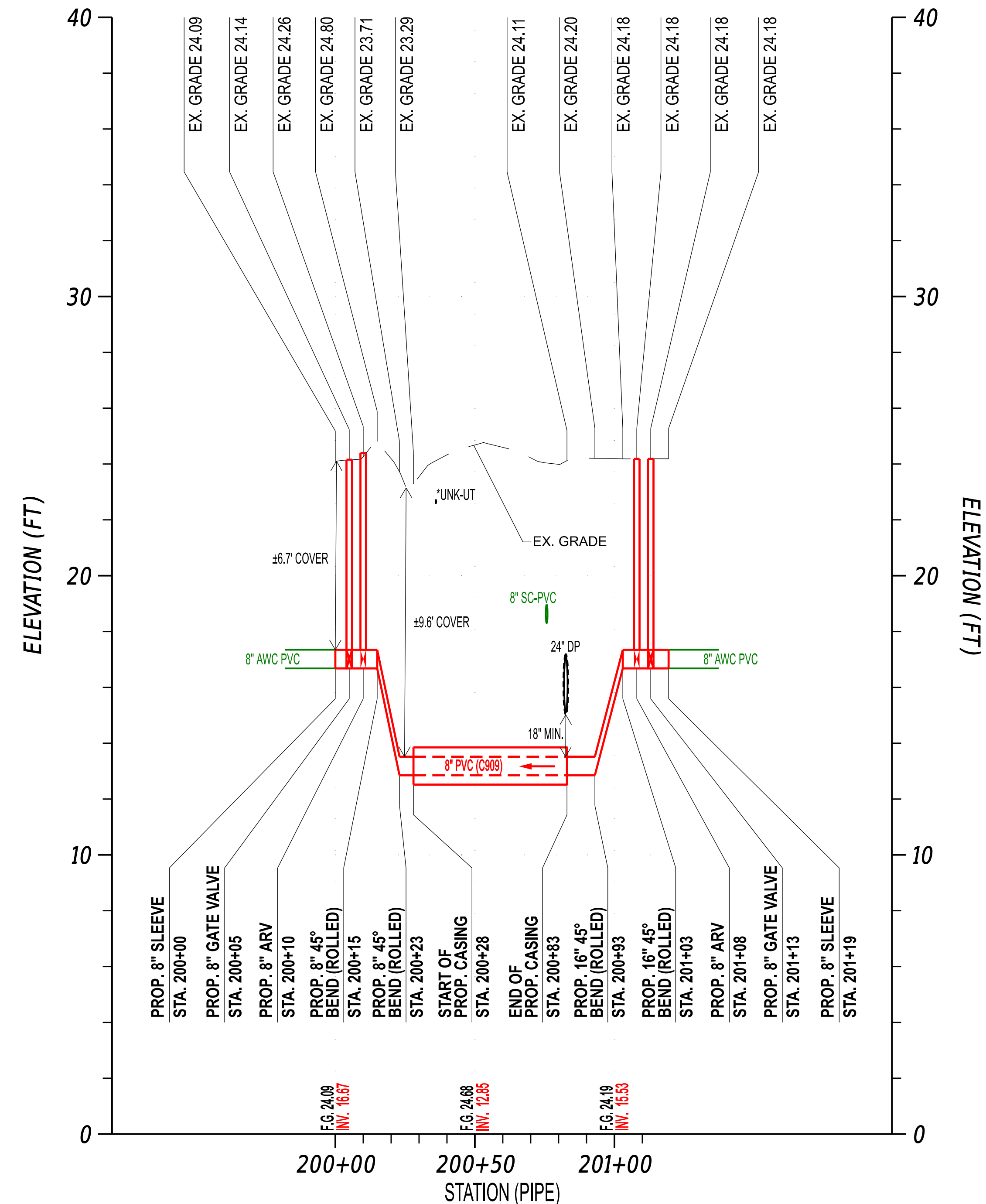
PROFILES



SHEET NO. 18
TOTAL SHTS. 29



ARTESIAN WATER ALIGNMENT - 16" PVC (909) CAVE NECK ROAD, HUDSON ROAD, AND SWEETBRIAR ROAD INTERSECTION IMPROVEMENTS HUDSON ROAD STA. 1306+33 (19' R) TO HUDSON ROAD STA. 1307+17 (24' L)



ARTESIAN WATER ALIGNMENT - 8" PVC (909) CAVE NECK ROAD, HUDSON ROAD, AND SWEETBRIAR ROAD INTERSECTION IMPROVEMENTS CAVE NECK ROAD STA. 1238+54 (36' R) TO CAVE NECK ROAD STA. 1238+97 (48' L)

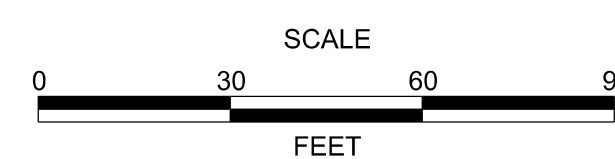
- - EXISTING UTILITY
- - PROPOSED UTILITY

*SIZE AND/OR DEPTH UNKNOWN; CONTRACTOR TO DETERMINE EXACT LOCATION IN FIELD.



ADDENDUMS / REVISIONS

FINAL: 2/27/2026



CAVE NECK ROAD, HUDSON AND SWEETBRIAR ROADS INTERSECTION IMPROVEMENTS

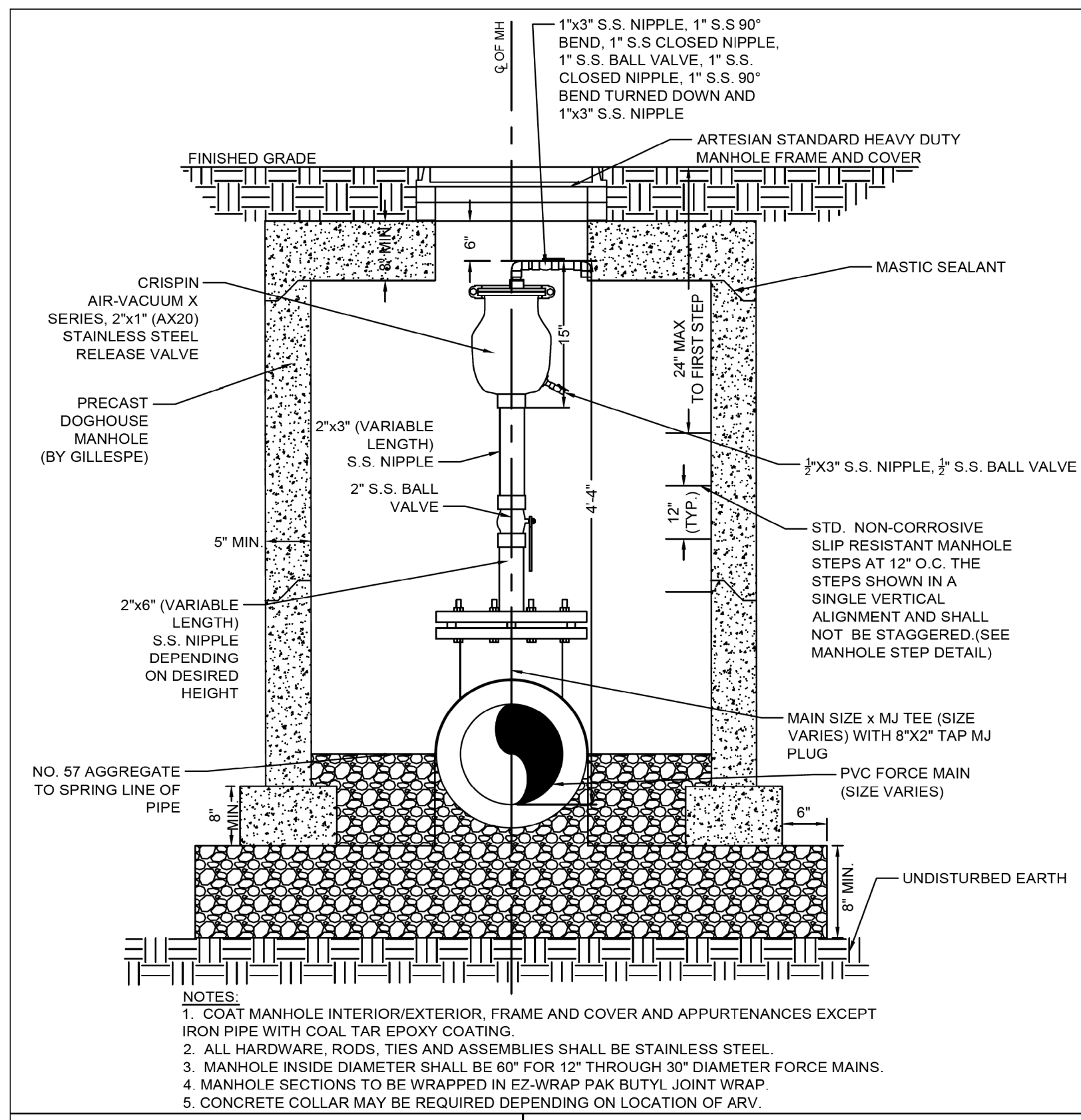
DELDOT CONTRACT	AWC PROJECT NO.	3006484
T202104304	DESIGNED BY:	EZ
COUNTY	CHECKED BY:	WFT
SUSSEX		

PROFILES

VERTICAL SCALE	9
	6
	3
	0
SHEET NO.	19
TOTAL SHTS.	29



5/1/2026



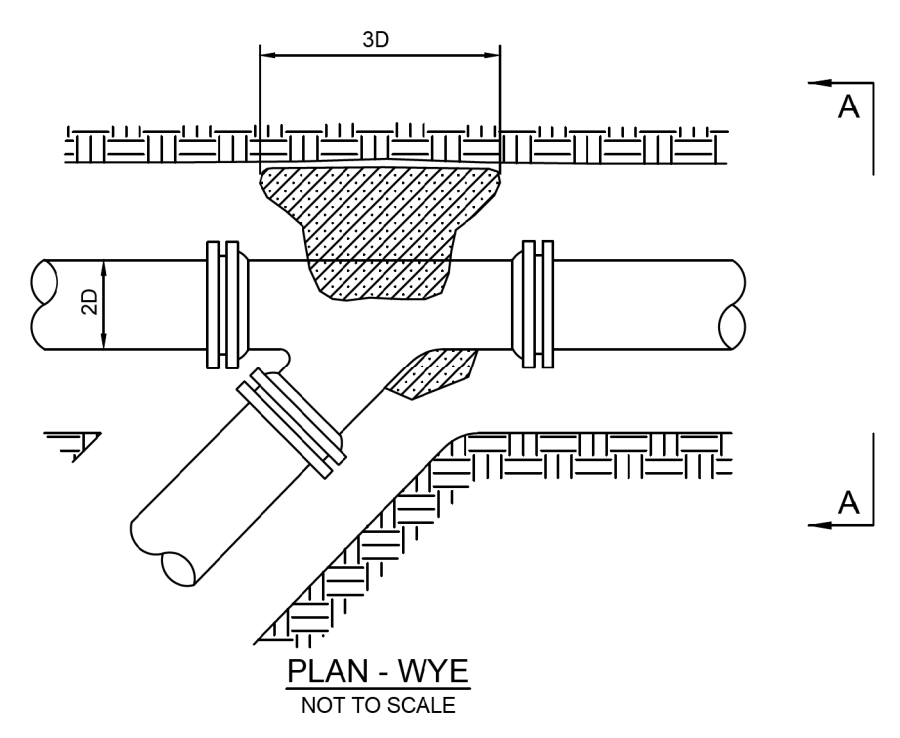
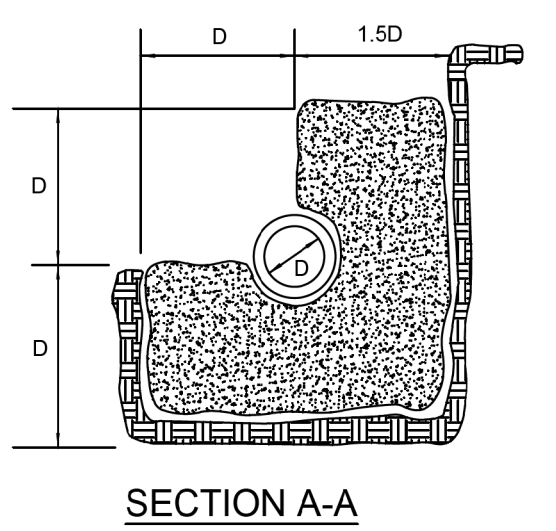
STANDARD DETAILS
MODIFIED COMB. SEWERAGE AIR RELEASE/VACUUM RELIEF VALVE
NON-TRAFFIC AREAS

ISSUED: FEBRUARY 12, 2026 SCALE: NOT TO SCALE
 REVISED: PLATE: MH-07

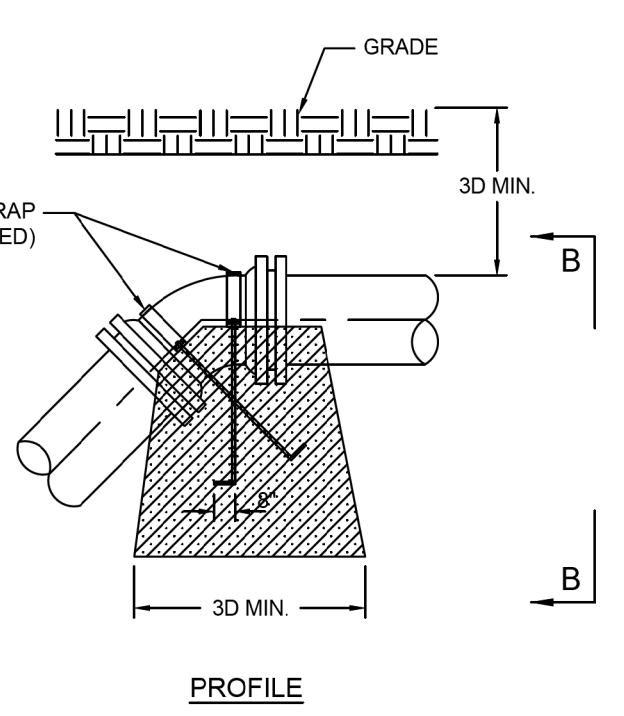
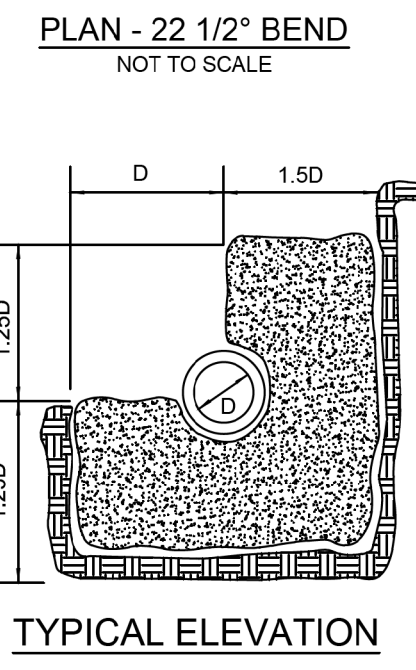
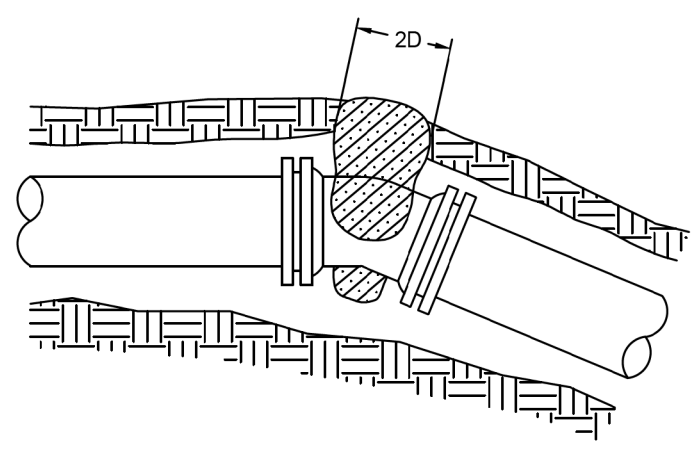


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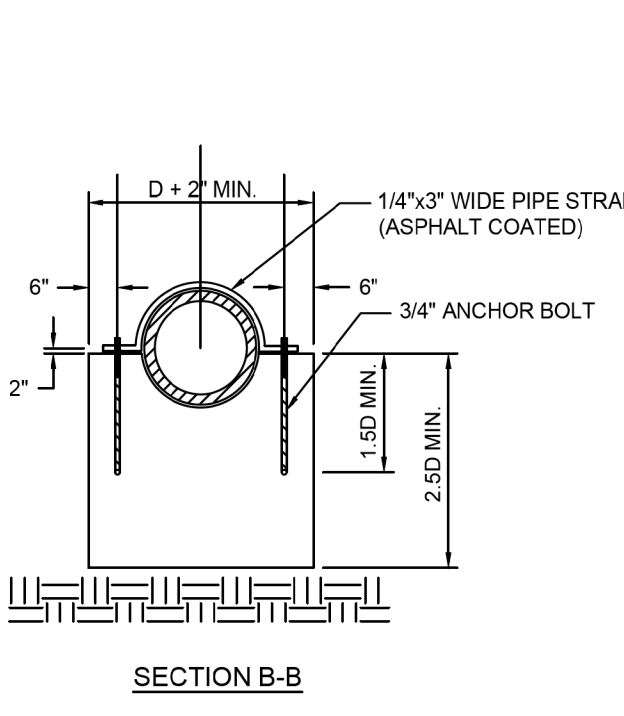
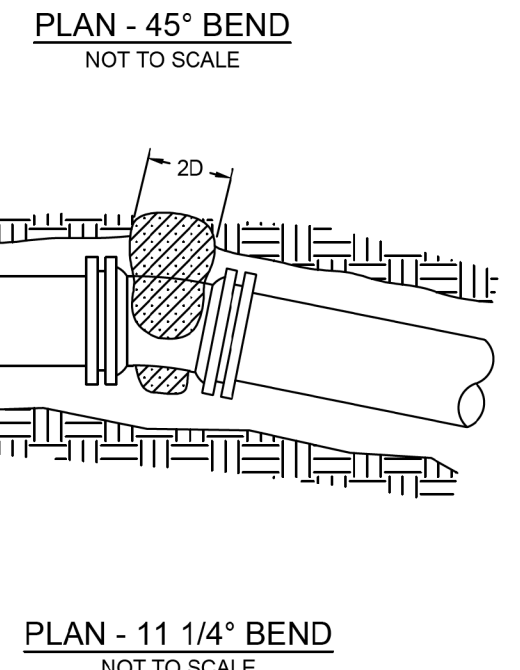
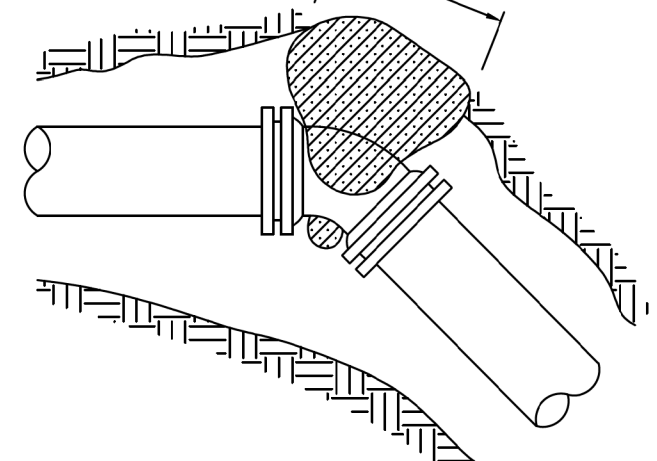
PIPE SIZE "D"	1.5D	2D	3D
20"	30"	40"	60"
16"	24"	32"	48"
12"	18"	24"	36"
10"	15"	20"	30"
8"	12"	16"	24"
6"	9"	12"	18"
4"	6"	8"	12"



PIPE SIZE "D"	1.25D	1.5D	2D	2.5D	3D
20"	25"	30"	40"	50"	60"
16"	20"	24"	32"	40"	48"
12"	15"	18"	24"	30"	36"
10"	12.5"	15"	24"	25"	30"
8"	10"	12"	20"	20"	24"
6"	7.5"	9"	12"	15"	18"
4"	7.5"	9"	12"	15"	18"



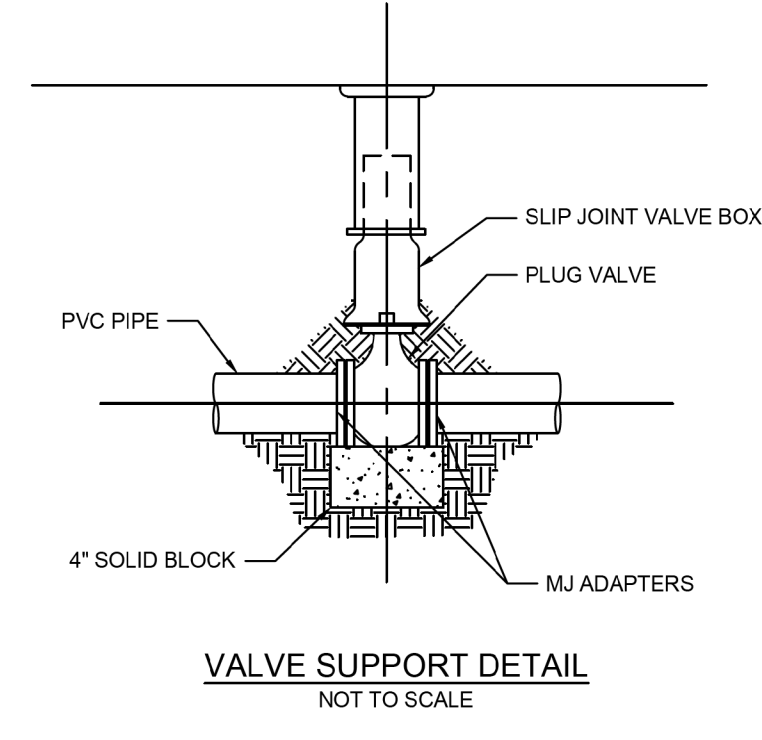
STANDARD REACTION BACKING FOR VERTICAL BENDS
 NOT TO SCALE



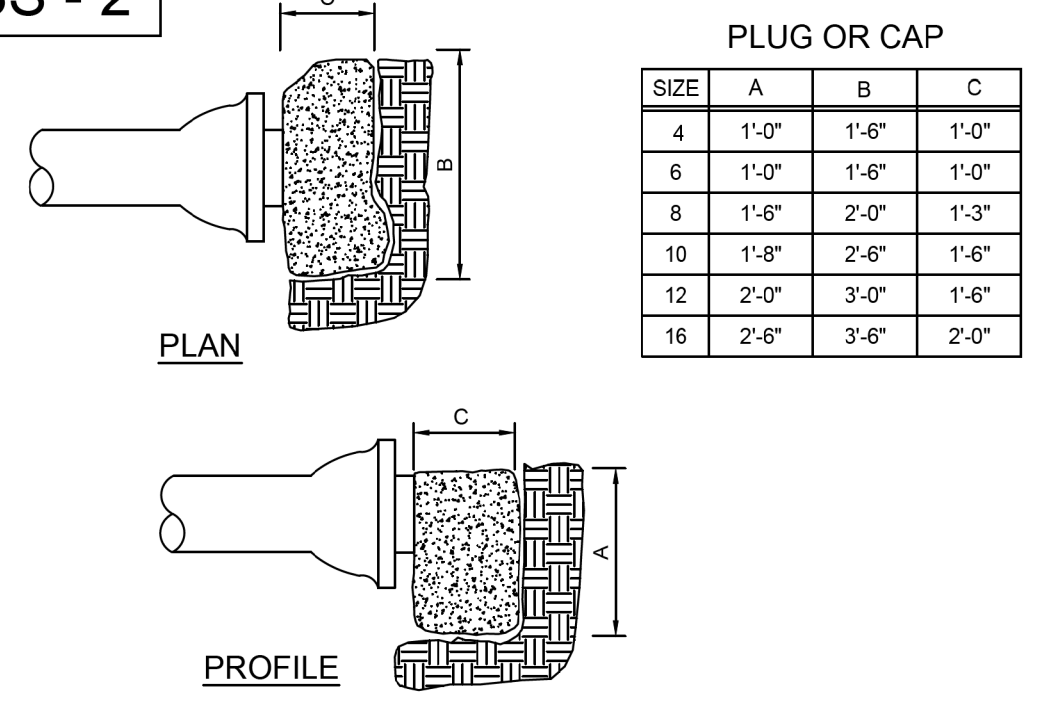
SPECIFICATIONS DUE TO CHANGE WITHOUT NOTICE. CONTACT ARTESIAN WASTEWATER MANAGEMENT, INC. FOR LATEST REVISIONS.

GENERAL NOTES

1. ALLOW SUFFICIENT SPACE TO HAVE AN ACCESS TO BOLTS IN THE MECHANICAL JOINT.
2. STRENGTH OF CONCRETE SHOULD BE 2500 P.S.I. (MIN.) AFTER 28 DAYS.
3. ALL REACTION BACKING TO EXTEND TO UNDISTURBED EARTH. WHEN USING MECHANICAL JOINT, USE TAR PAPER BETWEEN FITTING AND CONCRETE.



AWCBS - 2

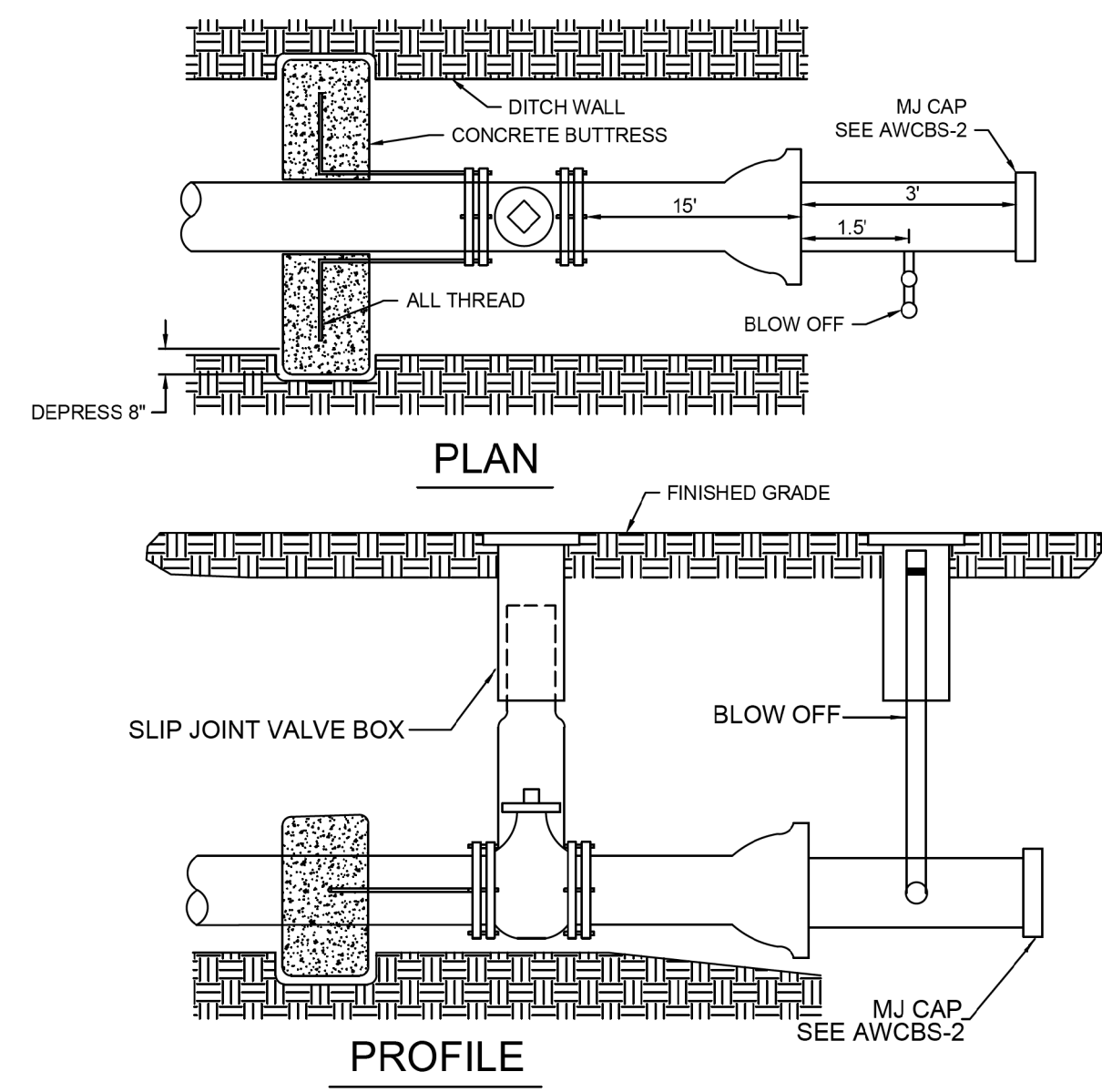


PLUG OR CAP

SIZE	A	B	C
4	1'-0"	1'-6"	1'-0"
6	1'-0"	1'-6"	1'-0"
8	1'-6"	2'-0"	1'-3"
10	1'-6"	2'-6"	1'-6"
12	2'-0"	3'-0"	1'-6"
16	2'-6"	3'-6"	2'-0"

BUTRESSES FOR PLUGS AND CAPS
 NOT TO SCALE

AWCBS - 3



Standard Detail & Specifications
Construction Site Pollution Prevention

Notes:
 The Construction Site Pollution Prevention Plan includes the following elements:

- 1. Material Inventory**
 Document the storage and use of the following materials:
 - a. Concrete
 - b. Detergents
 - c. Paints (enamel and latex)
 - d. Cleaning solvents
 - e. Pesticides
 - f. Wood scraps
 - g. Fertilizers
 - h. Petroleum based products
- 2. Good housekeeping practices**
 - a. Store only enough product required to do the job.
 - b. Store all materials in a neat, orderly manner in their original labeled containers and covered.
 - c. Do not mix different substances.
 - d. When possible, use all of a product prior to disposal of the container.
 - e. Manufacturers' instructions for disposal should be strictly adhered to.
 - f. Designate someone to inspect all BMPs daily.
- 3. Waste management practices**
 - a. Collect and store all waste materials in securely lidded dumpsters in a location that does not drain to a waterbody.
 - b. Salvage and/or recycle waste materials whenever possible.
 - c. The dumpsters shall be emptied a minimum of twice per week, or more if necessary. The licensed trash hauler is responsible for cleaning out dumpsters.

Source: Adapted from USEPA Pub. 840-B-92-002
 Symbol: Detail No. **DE-ESC-3.6.1** Sheet 2 of 4 Effective July 2023

Standard Detail & Specifications
Construction Site Pollution Prevention

Notes (cont.)

- d. Dispose of all trash in accordance with all applicable Delaware laws.
- e. Littering is strictly prohibited. Trash cans should be placed at all lunch spots and recycle bins should be placed near the construction trailer.
- f. If fertilizer bags can not be stored in a weather-proof location, they should be kept on a pallet and covered with plastic sheeting which is overlapped and anchored.

- 4. Equipment maintenance practices**
 - a. If possible, equipment should be taken to off-site commercial facilities for washing and maintenance.
 - b. If performed on-site, wash vehicles with high-pressure water spray without detergents in an area contained by an impervious berm.
 - c. Use drip pans for all equipment maintenance.
 - d. Inspect equipment for leaks on a daily basis.
 - e. Direct washout from concrete trucks into a temporary pit for hardening and proper disposal.
 - f. Equip fuel nozzles with automatic shut-off valves.
 - g. Dispose of all used products such as oil, antifreeze, solvents and tires in accordance with manufacturers' recommendations and local, state and federal laws and regulations.
- 5. Spill prevention practices**
 - a. Identify potential spill areas and contain them in covered areas with no connection to the storm drain system.
 - b. Post warning signs in hazardous material storage areas.
 - c. Perform preventive maintenance on all tanks, valves, pumps, pipes and other equipment as necessary.
 - d. Prioritize low or non-toxic substances for use.

Source: Adapted from USEPA Pub. 840-B-92-002
 Symbol: Detail No. **DE-ESC-3.6.1** Sheet 3 of 4 Effective July 2023

Standard Detail & Specifications
Construction Site Pollution Prevention

Notes (cont.)

- e. Prominently post contact information for reporting spills through the DNREC 24-Hour Toll Free Number.

- 6. Education**
 - a. Include Best Management Practices (BMPs) for construction site pollution control as part of regular progress meetings.
 - b. Information regarding waste management, equipment maintenance and spill prevention should be prominently posted in the construction trailer.

CONTACT INFORMATION
 DNREC 24-Hour Toll Free Number 800-662-8802
 DNREC Solid & Hazardous Waste Management Section 302-739-9403

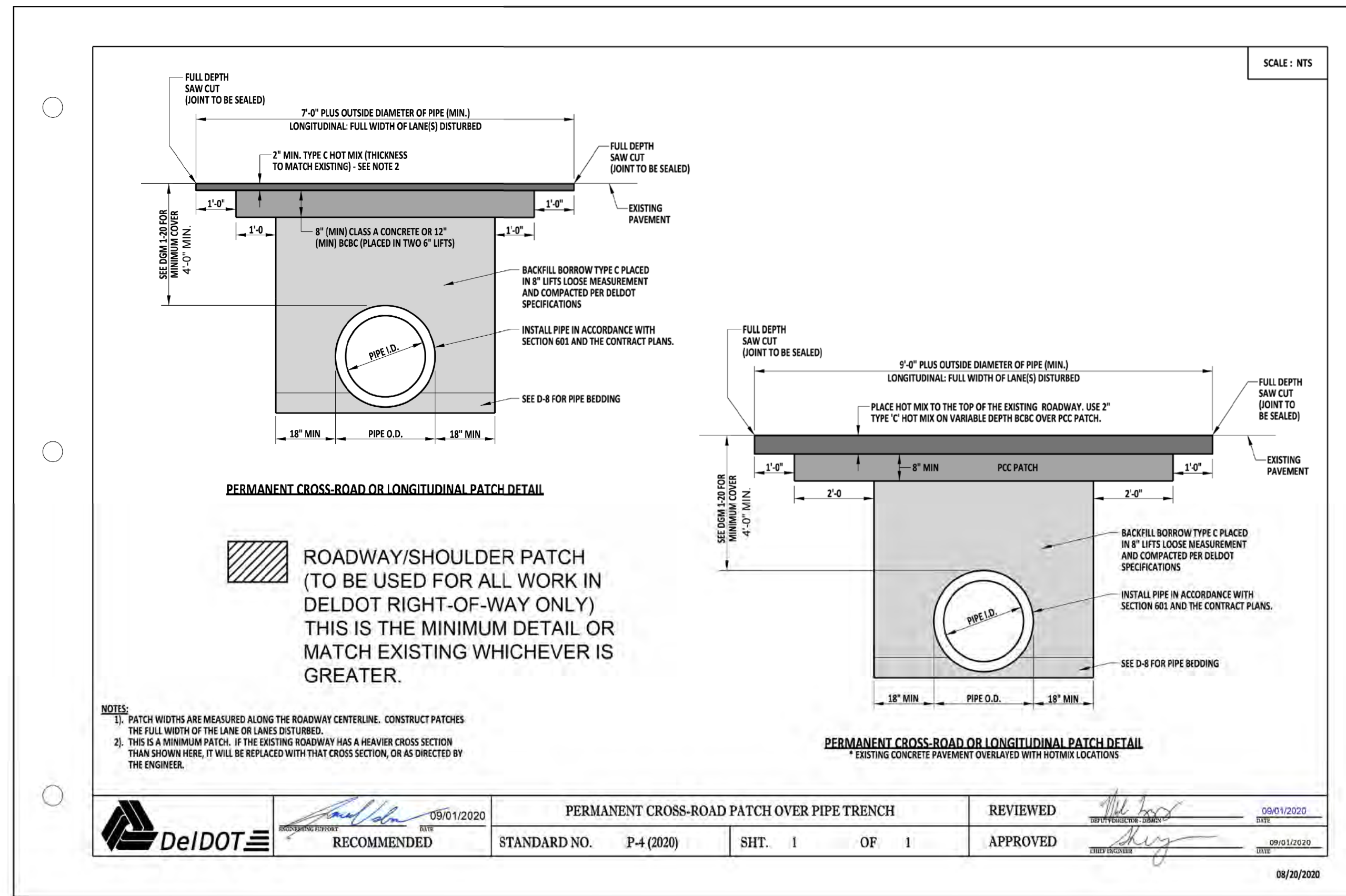
Source: Adapted from USEPA Pub. 840-B-92-002
 Symbol: Detail No. **DE-ESC-3.6.1** Sheet 4 of 4 Effective July 2023



5/1/2026

SANITARY FORCE MAIN NOTES:

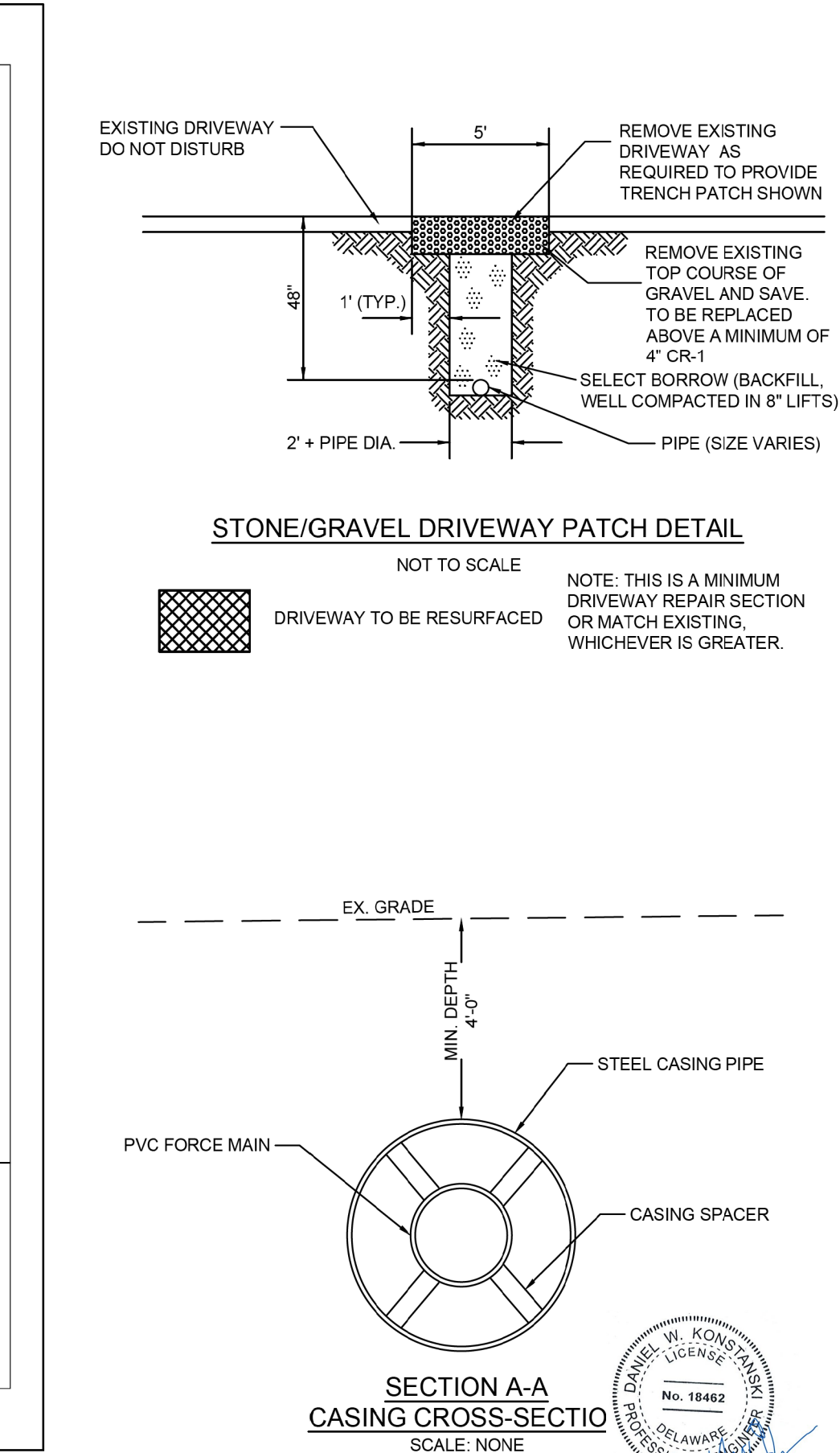
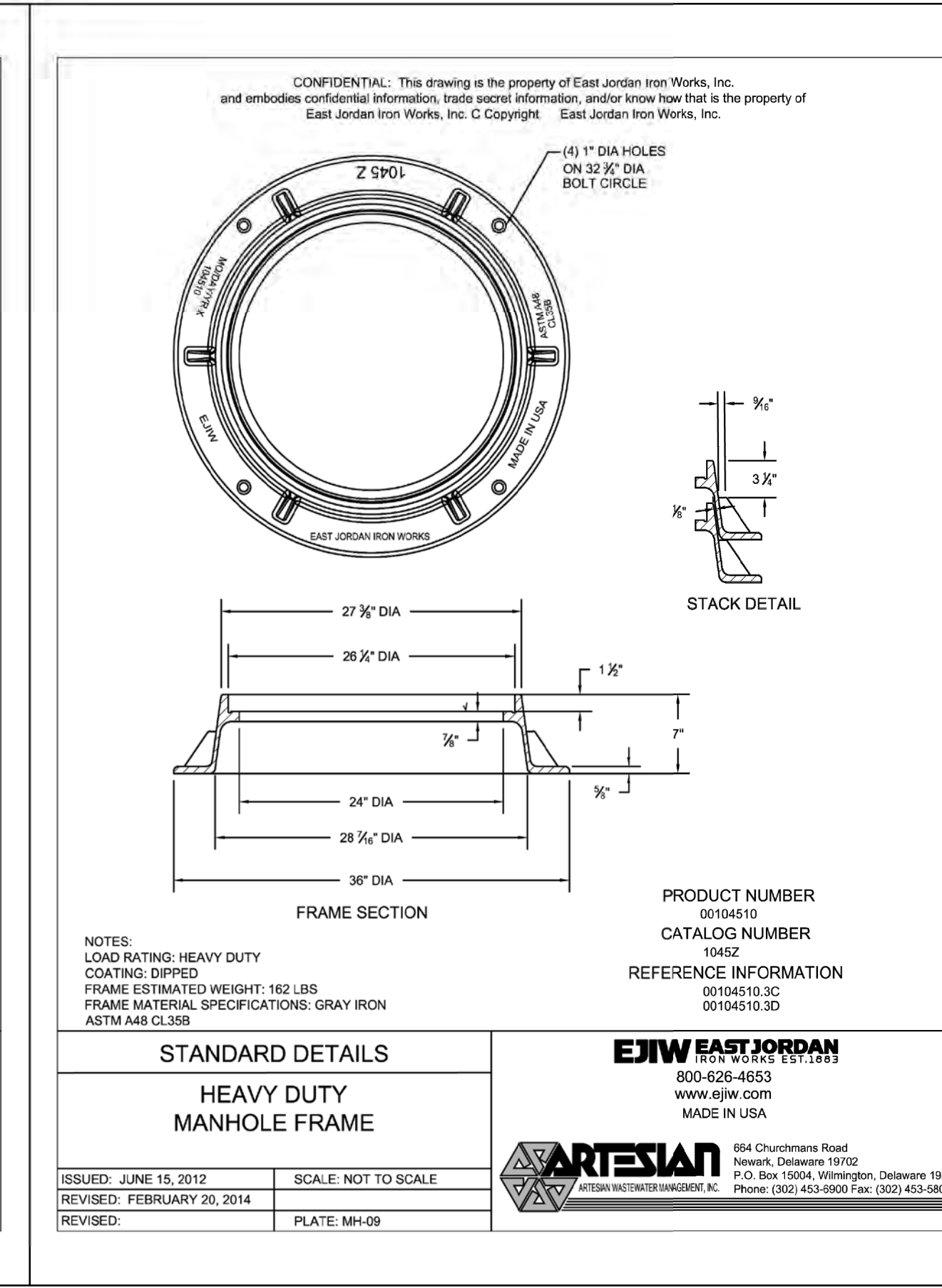
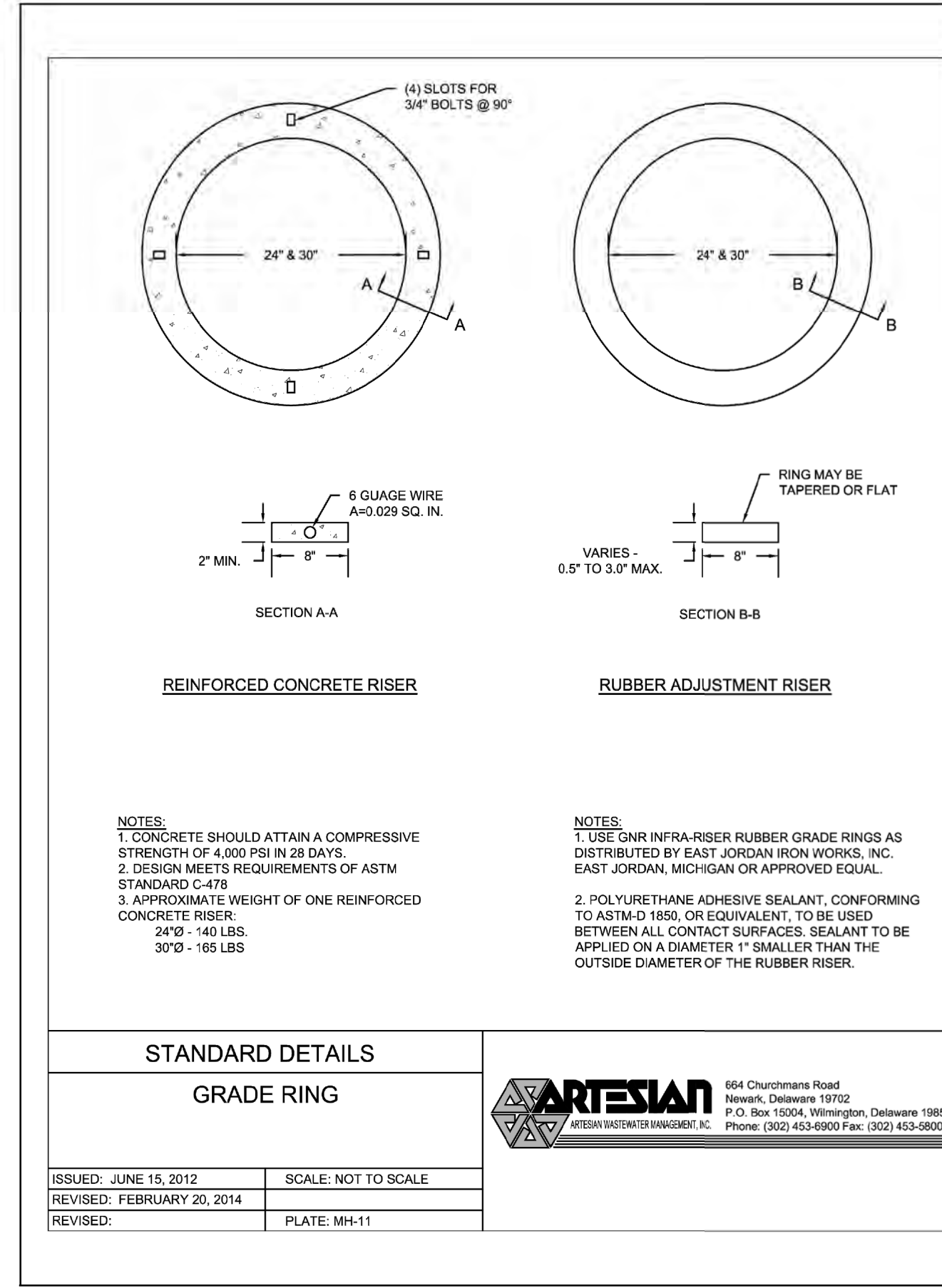
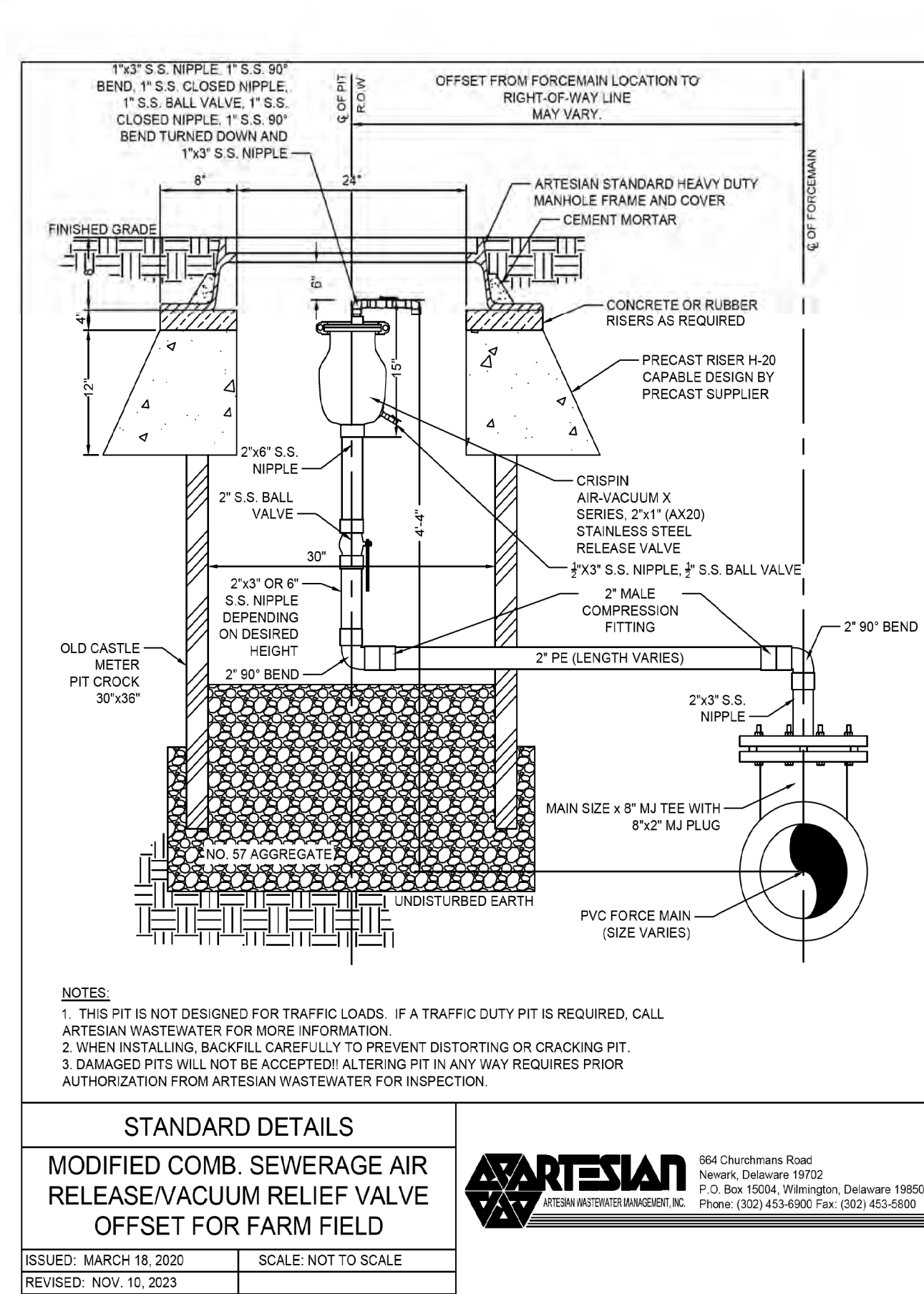
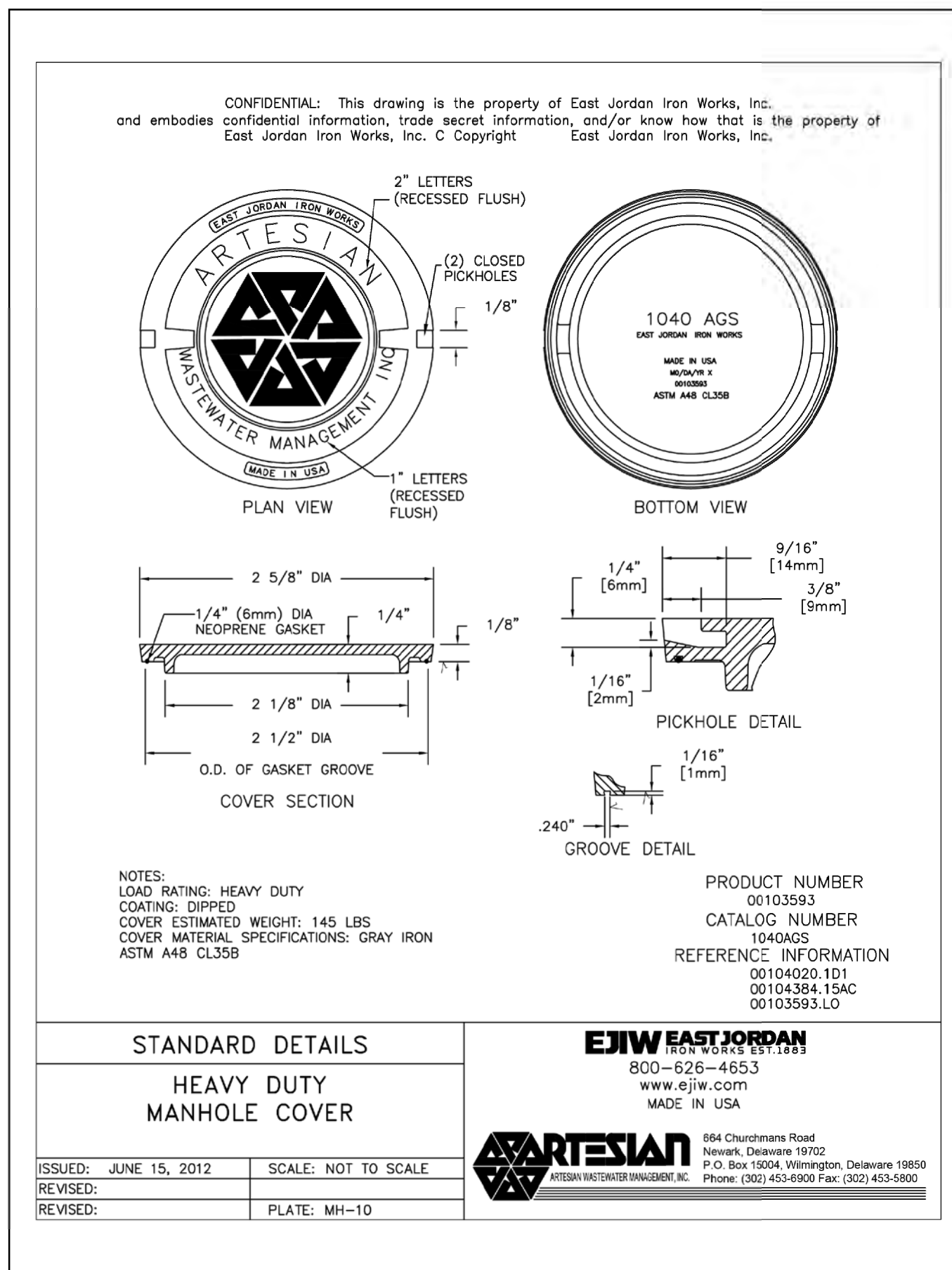
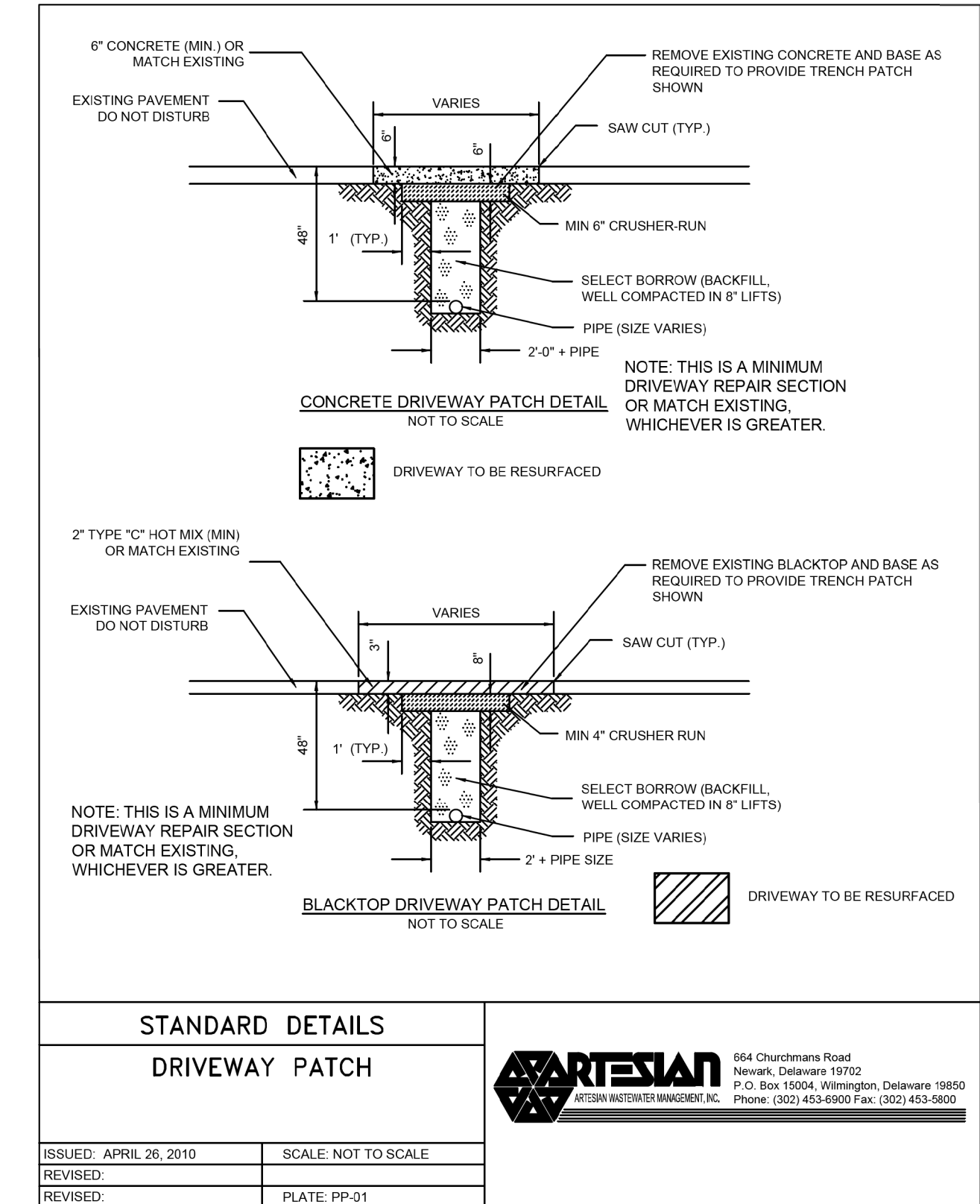
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH SUSSEX COUNTY, DELAWARE ORDINANCE 657 SPECIFICATIONS AND ARTESIAN WASTEWATER MANAGEMENT, INC. STANDARDS AND SPECIFICATIONS, LATEST EDITION.
- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO ORDERING AND/OR FABRICATION OF ANY MATERIALS.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. ALL CONSTRUCTION MUST BE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THERETO APPURTENANT. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
- CONTRACTOR SHALL SUPERVISE AND DIRECT WORK. HE WILL BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCE OF CONSTRUCTION.
- CONTRACTOR SHALL PATCH, REPAIR AND FINISH ALL DAMAGED SURFACES CAUSED BY THE WORK, USING MATERIALS OF THE SAME KINDS.
- FABRICATION AND INSTALLATION OF ALL MATERIALS, FINISHES, ETC. SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- EXISTING UTILITIES ARE SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY COMPANIES INVOLVED IN ORDER TO SECURE THE MOST ACCURATE INFORMATION AVAILABLE AS TO UTILITY LOCATIONS AND ELEVATION. NO CONSTRUCTION AROUND OR ADJACENT TO UTILITIES SHALL BEGIN WITHOUT NOTIFYING THEIR 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 NEGLIGENCE SHALL BE IMMEDIATELY AND COMPLETELY REPAIRED AT THE CONTRACTOR'S EXPENSE. TO LOCATE EXISTING UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CALL MISS UTILITY OF DELMARVA (TELEPHONE NUMBER 1-800-282-8555).
- ALL EXCESS EXCAVATION AND ALL OLD PAVEMENT, BASE COURSE, BROKEN CONCRETE, ETC., SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE HAULED AWAY FROM THE SITE AND DISPOSED OF ACCORDING TO ALL APPLICABLE ORDINANCES, LAWS & REGULATIONS.
- IN ALL AREAS WHERE UNSTABLE OR UNSUITABLE MATERIALS ARE ENCOUNTERED, THE CONTRACTOR SHALL FIRST NOTIFY THE OWNER, THEN REVIEW WITH THE OWNER THE POSSIBLE OPTIONS, AND THEN PROCEED WITH THE MUTUALLY ACCEPTABLE CORRECTION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL INSTALLED PIPING UNTIL THE COMPLETION OF CONSTRUCTION OF THE PROJECT. PIPES WITH SHALLOW COVER SHALL BE PROTECTED FROM DAMAGE BY CONSTRUCTION MACHINERY WITH ADEQUATE TEMPORARY COVER.
- ALL EXCAVATION SHALL BE KEPT DRY AT ALL TIMES. BACK FILL SHALL BE COMPACTED TO 95% PROCTOR DENSITY. ANY BORROW NECESSARY TO BRING GRADE TO THOSE SHOWN ON THE PLANS SHALL BE SUPPLIED BY THE CONTRACTOR. BORROW SHALL BE SELECT BORROW.
- ALL DIMENSIONS ARE TO THE CENTERLINE OF THE UTILITY UNLESS OTHERWISE NOTED.
- ALL DISTURBED AREAS OUTSIDE OF PAVEMENT SHALL BE STABILIZED WITH 6" OF TOPSOIL, SEED AND MULCHED PER THE SPECIFICATION. UNLESS OTHERWISE NOTED, TOPSOIL SHALL CONFORM TO ASTM D 5268. REUSE TOPSOIL STOCKPILED ON THE SITE. VERIFY SUITABILITY OF SURFACE SOIL TO PRODUCE TOPSOIL MEETING THE REQUIREMENTS AND AMEND WHEN NECESSARY. SUPPLEMENT TOPSOIL WITH IMPORTED TOPSOIL WHEN QUANTITIES ARE INSUFFICIENT. CLEAN TOPSOIL OF ROOTS, PLANTS, SODS, STONES, CLAY LUMPS, AND OTHER EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH.
- ALL PIPE BEDDING SHALL MEET THE REQUIREMENTS OF CLASS 'C'.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN APPROVAL AND ACCEPTANCE OF THE FORCE MAINS AND PUMP STATIONS BY ARTESIAN WASTEWATER MANAGEMENT, INC. STANDARDS AND SPECIFICATIONS, LATEST EDITION.
- ALL FORCE MAINS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH ARTESIAN WASTEWATER MANAGEMENT, INC. STANDARDS AND SPECIFICATIONS, LATEST EDITION.
- ALL EXCAVATED MATERIALS SHALL BE STORED ON THE HIGH SIDE OF THE TRENCH AND SHALL BE BACK FILLED AT THE END OF EACH DAY.
- THE CONTRACTOR SHALL PLACE MAGNETIC DETECTION TAPE OVER ALL SEWER MAINS AND FORCE MAINS PER ARTESIAN WASTEWATER MANAGEMENT, INC. STANDARDS AND SPECIFICATIONS, LATEST EDITION.
- ALL GRADING TO BE DONE SO AS TO CAUSE DRAINAGE TO FLOW AWAY FROM ANY CONSTRUCTED ITEMS OF WORK.
- CONCRETE BUTTRESSES CONFORMING TO THE STANDARD SPECIFICATIONS SHALL BE INSTALLED ON THE FORCE MAINS.



Source of Supply
Materials & Research
Delaware Department of Transportation

District: South

Specification #	Item Description	Material
210000	Borrow Type C for Utility Trench & Structure Backfill	Select Fill
302513	Crushed Concrete	Crushed Concrete
401801	Bituminous Concrete Superpave, Type C 160 Gyration	Hot Mix
401810	Bituminous Concrete Superpave, Type B 160 Gyration	Hot Mix
748520	Pavement Markings 4"	Epoxy Paint
302005	Graded Aggregate Base Course Type B	Crusher Run



664 Churchmans Road
 Newark, Delaware 19702
 P.O. Box 15004, Wilmington, Delaware 19850
 Phone: (302) 453-6900 Fax: (302) 453-5800

ADDENDUMS / REVISIONS

SEMI-FINAL: 2/24/2026

NOT TO SCALE

CAVE NECK ROAD, HUDSON AND SWEETBRIAR ROADS INTERSECTION IMPROVEMENTS

DELDOT CONTRACT	AWC PROJECT NO.	3006484
T202104304	DESIGNED BY:	EZ
COUNTY	CHECKED BY:	WFT
SUSSEX		

STANDARD DETAILS

SHEET NO.	21
TOTAL SHEETS	29

5/1/2026

Standard Detail & Specifications
Vegetative Stabilization

Mix #	Species ¹	Seeding Rate	Optimum Seeding Dates ¹												Planting Depth ²
			Coastal Plain			Piedmont			All			Notes			
1	Barley	125	4	O	A	O	O	A	O	A	O			1.2 inches	
2	Oats	125	4	O	A	O	O	A	O	A	O			2.3" sandy soils	
3	Rye	125	4	O	A	O	O	A	O	A	O			1.2 inches	
4	Perennial Ryegrass	125	4	O	A	O	O	A	O	A	O			0.5 inches	
5	Annual Ryegrass	125	4	O	A	O	O	A	O	A	O			0.5 inches	
6	Winter Wheat	125	4	O	A	O	O	A	O	A	O			1.2 inches	
7	Festulolga	30 PLS	0.7	O		O		O		O				0.3 inches	
8	Poa trivialis	30 PLS	0.5	O		O		O		O				1.2" sandy soils	

- Winter seeding requires 3 tons per acre of straw mulch for proper stabilization.
- May be planted throughout summer if soil moisture is adequate or seeded area can be irrigated.
- Applicable on slopes 3:1 or less.
- Use species currently recommended for Delaware. Contact a County Extension Office for information.
- Warm season grasses such as Millet may be used between 5/1 and 9/1 if feasible. Seed at 3-6 lbs. per acre. Good on low fertility and acid areas. Seed after frost through summer at a depth of 0.2".

NOTE: Alternative seed mixes may be used with prior approval from the Department or Delegated Agency.

Source:	Symbol:	Detail No.
Delaware ESC Handbook		DE-ESC-3.4.3 Sheet 1 of 4 Effective July 2023

Standard Detail & Specifications
Vegetative Stabilization

Mix No.	Certified Seed ¹	Seeding Rate	Optimum Seeding Dates ¹												Remarks
			Coastal Plain			Piedmont			All			Notes			
1	Barley	125	4	O	A	O	O	A	O	A	O			Good erosion control mix. Use of this highly variable seed for stability varies. Good for steep slopes.	
2	Oats	125	4	O	A	O	O	A	O	A	O			Good erosion control mix. Use of this highly variable seed for stability varies. Good for steep slopes.	
3	Rye	125	4	O	A	O	O	A	O	A	O			Good erosion control mix. Use of this highly variable seed for stability varies. Good for steep slopes.	
4	Perennial Ryegrass	125	4	O	A	O	O	A	O	A	O			Good erosion control mix. Use of this highly variable seed for stability varies. Good for steep slopes.	
5	Annual Ryegrass	125	4	O	A	O	O	A	O	A	O			Good erosion control mix. Use of this highly variable seed for stability varies. Good for steep slopes.	
6	Winter Wheat	125	4	O	A	O	O	A	O	A	O			Good erosion control mix. Use of this highly variable seed for stability varies. Good for steep slopes.	
7	Festulolga	30 PLS	0.7	O		O		O		O				Good erosion control mix. Use of this highly variable seed for stability varies. Good for steep slopes.	
8	Poa trivialis	30 PLS	0.5	O		O		O		O				Good erosion control mix. Use of this highly variable seed for stability varies. Good for steep slopes.	

NOTE: Alternative seed mixes may be used with prior approval from the Department or Delegated Agency.

Source:	Symbol:	Detail No.
Delaware ESC Handbook		DE-ESC-3.4.3 Sheet 3 of 4 Effective July 2023

Standard Detail & Specifications
Vegetative Stabilization

Mix No.	Certified Seed ¹	Seeding Rate	Optimum Seeding Dates ¹												Remarks
			Coastal Plain			Piedmont			All			Notes			
1	Barley	125	4	O	A	O	O	A	O	A	O			Good erosion control mix. Use of this highly variable seed for stability varies. Good for steep slopes.	
2	Oats	125	4	O	A	O	O	A	O	A	O			Good erosion control mix. Use of this highly variable seed for stability varies. Good for steep slopes.	
3	Rye	125	4	O	A	O	O	A	O	A	O			Good erosion control mix. Use of this highly variable seed for stability varies. Good for steep slopes.	
4	Perennial Ryegrass	125	4	O	A	O	O	A	O	A	O			Good erosion control mix. Use of this highly variable seed for stability varies. Good for steep slopes.	
5	Annual Ryegrass	125	4	O	A	O	O	A	O	A	O			Good erosion control mix. Use of this highly variable seed for stability varies. Good for steep slopes.	
6	Winter Wheat	125	4	O	A	O	O	A	O	A	O			Good erosion control mix. Use of this highly variable seed for stability varies. Good for steep slopes.	
7	Festulolga	30 PLS	0.7	O		O		O		O				Good erosion control mix. Use of this highly variable seed for stability varies. Good for steep slopes.	
8	Poa trivialis	30 PLS	0.5	O		O		O		O				Good erosion control mix. Use of this highly variable seed for stability varies. Good for steep slopes.	

NOTE: Alternative seed mixes may be used with prior approval from the Department or Delegated Agency.

Source:	Symbol:	Detail No.
Delaware ESC Handbook		DE-ESC-3.4.3 Sheet 3 of 4 Effective July 2023

Standard Detail & Specifications
Vegetative Stabilization

Mix No.	Certified Seed ¹	Seeding Rate	Optimum Seeding Dates ¹												Remarks
			Coastal Plain			Piedmont			All			Notes			
1	Barley	125	4	O	A	O	O	A	O	A	O			Good erosion control mix. Use of this highly variable seed for stability varies. Good for steep slopes.	
2	Oats	125	4	O	A	O	O	A	O	A	O			Good erosion control mix. Use of this highly variable seed for stability varies. Good for steep slopes.	
3	Rye	125	4	O	A	O	O	A	O	A	O			Good erosion control mix. Use of this highly variable seed for stability varies. Good for steep slopes.	
4	Perennial Ryegrass	125	4	O	A	O	O	A	O	A	O			Good erosion control mix. Use of this highly variable seed for stability varies. Good for steep slopes.	
5	Annual Ryegrass	125	4	O	A	O	O	A	O	A	O			Good erosion control mix. Use of this highly variable seed for stability varies. Good for steep slopes.	
6	Winter Wheat	125	4	O	A	O	O	A	O	A	O			Good erosion control mix. Use of this highly variable seed for stability varies. Good for steep slopes.	
7	Festulolga	30 PLS	0.7	O		O		O		O				Good erosion control mix. Use of this highly variable seed for stability varies. Good for steep slopes.	
8	Poa trivialis	30 PLS	0.5	O		O		O		O				Good erosion control mix. Use of this highly variable seed for stability varies. Good for steep slopes.	

NOTE: Alternative seed mixes may be used with prior approval from the Department or Delegated Agency.

Source:	Symbol:	Detail No.
Delaware ESC Handbook		DE-ESC-3.4.3 Sheet 4 of 4 Effective July 2023

DELDOT UTILITY PLAN NOTES:

- PLANS ARE REVIEWED FOR GENERAL CONFORMITY. DELDOT IS NOT RESPONSIBLE FOR ERRORS OR OMISSIONS WITHIN THE PLAN SET. THE UTILITY OWNER IS RESPONSIBLE TO ENSURE ACCURACY OF PLANS AND CONFORMANCE WITH DELDOT STANDARDS.
- MANHOLE TOP SECTIONS WILL BE OFF SET CONE STYLE. ANY MANHOLE LIDS THAT ARE DETERMINED BY DELDOT 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 1/2" 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 COMPACTED TO 95% USING AASHTO T99 STANDARD FOR TESTING.
- GABC PLACED SHALL BE COMPACTED TO 98%.
- COMPACTION TESTING SHALL BE PERFORMED EVERY 100' AND TESTING SHALL BE TAKEN ON EACH LIFT OF MATERIAL PLACED.
- TAR CHIPHOT MIXES ROADS: TRAVEL WAY PAVEMENT DISTURBED SHALL BE RESTORED AT THE END OF THE DAY PRIOR TO REOPENING TO TRAFFIC. HOT MIX SHALL BE PLACED PER TEMP PAVING DETAIL 6" GABC AND 2" TYPE "C" HOT MIX.
- TAR CHIPHOT 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.
- 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 DELDOT 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 DELDOT STANDARDS AND AN 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 SOI 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 DELDOT DISTRICT PERMIT SUPERVISOR PRIOR TO STARTING UTILITY CONSTRUCTION.
- A 48 HOUR NOTICE IS REQUIRED TO BE GIVEN TO THE DELDOT 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 DELDOT APPROVAL LETTERS SHALL BE MAINTAINED ON THE PROJECT SITE AT ALL TIMES AND BE AVAILABLE FOR INSPECTION BY DELDOT 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 AVAILABLE AS TO UTILITY LOCATION AND ELEVATION. NO CONSTRUCTION AROUND OR ADJACENT TO UTILITIES SHALL BEGIN WITHOUT THEIR 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 DUE TO THEM DUE TO HIS/HER NEGLIGENCE SHALL BE IMMEDIATELY AND COMPLETELY REPAIRED 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 DELDOT REVIEW, ALONG WITH CORRESPONDENCE FROM THE UTILITY COMPANIES STARTING PRELIMINARY APPROVAL TO THE RELOCATION AND DESIGN OF THE UTILITIES PRIOR TO THE DELDOT PRE-CONSTRUCTION MEETING. NO PHYSICAL CONSTRUCTION CAN OCCUR UNTIL THE UTILITY PLANS ARE APPROVED, THE INDIVIDUAL UTILITY COMPANIES ISSUE FINAL APPROVAL, AND A DELDOT 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 DELDOT 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 DELDOT STANDARD CONSTRUCTION DETAIL T-15.
- ALL PROPOSED CLOSED STORM DRAIN SYSTEMS SHALL BE VIDEO INSPECTED, REPAIRED AS NECESSARY AND APPROVED PRIOR TO THE INSTALLATION OF FINAL PAVING. IF REPAIRS ARE NEEDED, THE REPAIRED 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 DELDOT 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 DELDOT 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) 659-6600.
- 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 DELDOT'S TEMPORARY PAVEMENT MARKINGS POLICY.
- WHEN SIDE ROADS INTERSECT THE WORK ZONE, ADDITIONAL TRAFFIC CONTROL DEVICES SHALL BE ERCTED 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 GROUND MOUNTED ON TWO NCHRP-350 OR MASH APPROVED BREAKAWAY POSTS AND SHALL BE MOUNTED IN COMPLIANCE WITH THE DELAWARE MUTCD. PERMANENT ADVANCE WARNING SIGNS SHALL BE MOUNTED AT A HEIGHT OF 7 FEET, MEASURED FROM THE ROADWAY TO 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 MEDIANS PREVENT THE INSTALLATION OF THE PERMANENT ADVANCE WARNING SIGNS IN THE APPROPRIATE LOCATION.

5/1/2026



664 Churchmans Road
Newark, Delaware 19702
P.O. Box 15004, Wilmington, Delaware 19850
Phone: (302) 453-6900 Fax: (302) 453-8800

ADDENDUMS / REVISIONS

SEMI-FINAL: 2/24/2026

NOT TO SCALE

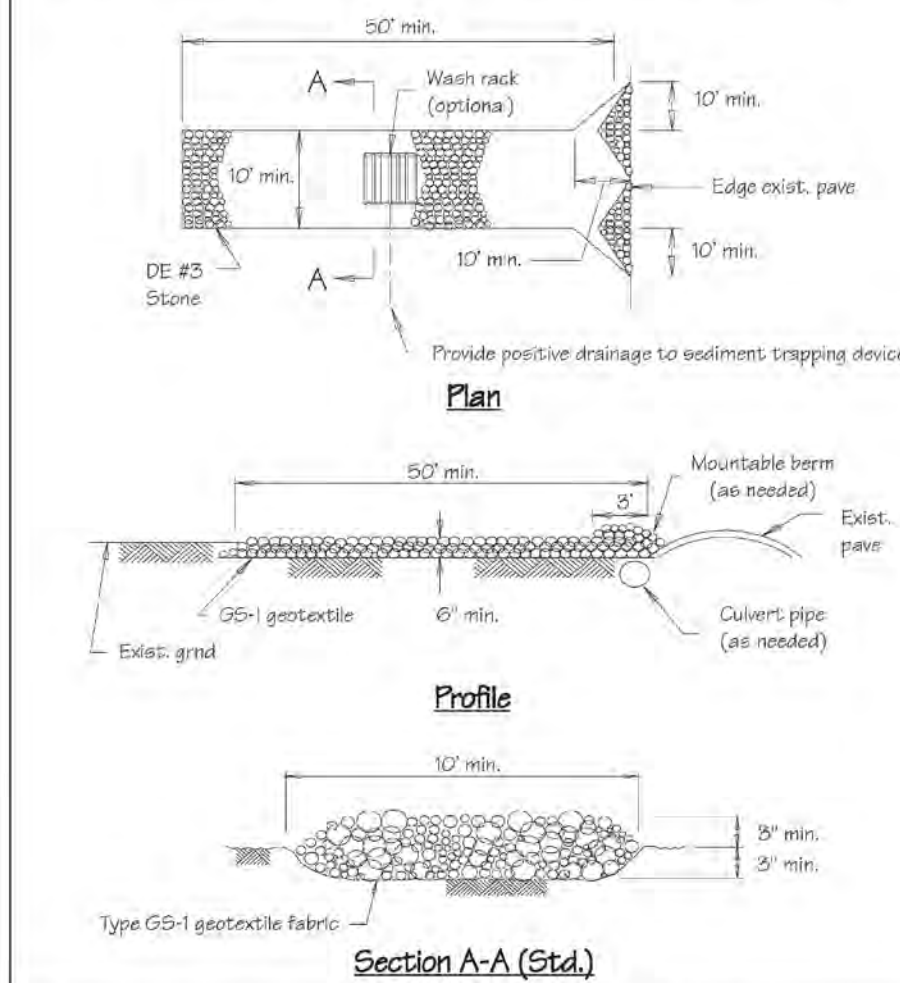
CAVE NECK ROAD, HUDSON AND SWEETBRIAR ROADS INTERSECTION IMPROVEMENTS

DELDOT CONTRACT	AWC PROJECT NO.	3006484
T202104304	DESIGNED BY:	EZ
COUNTY	CHECKED BY:	WFT
SUSSEX		

STANDARD DETAILS

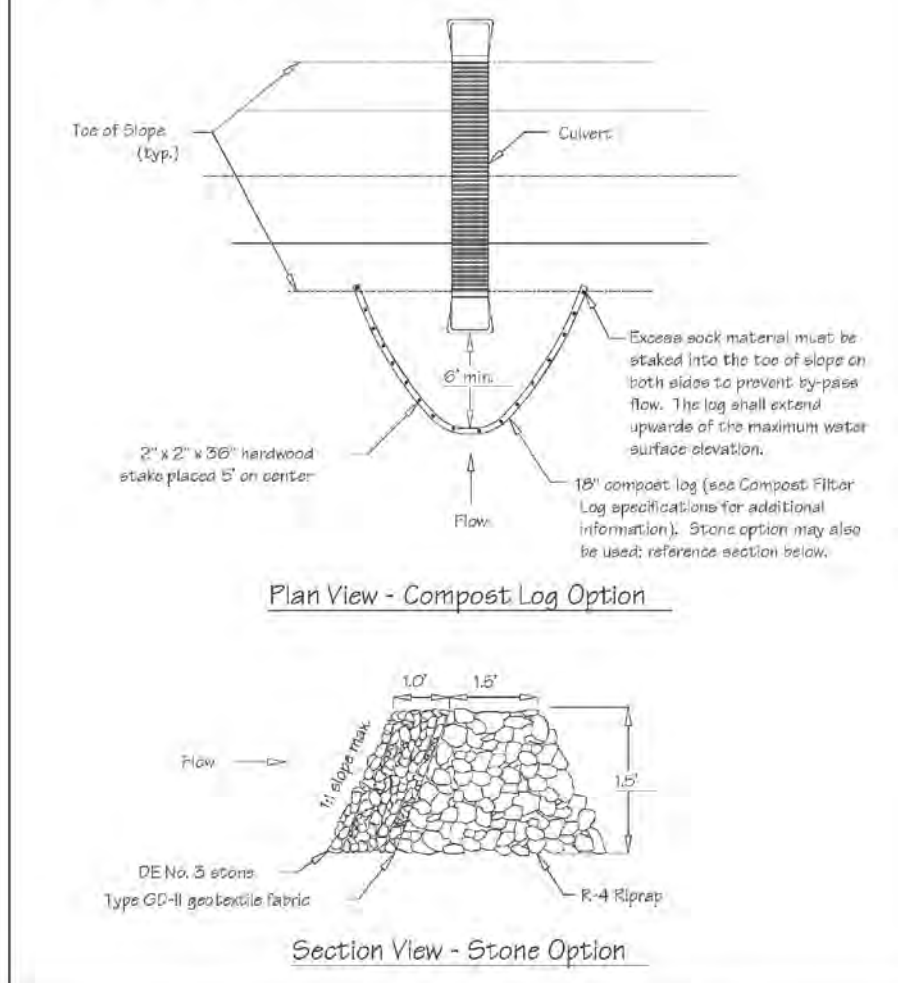
SHEET NO.	22
TOTAL SHTS.	29

Standard Detail & Specifications
Stabilized Construction Entrance



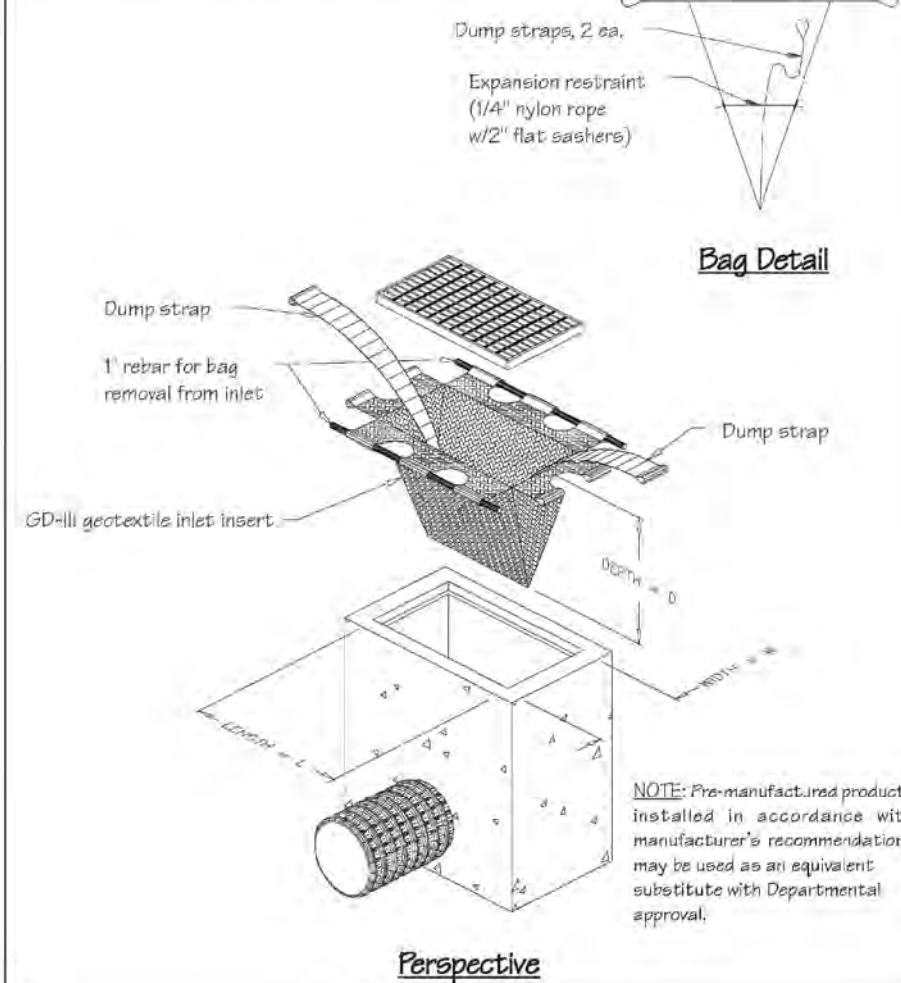
Source: Adapted from VA ESC Handbook
Symbol: **SCE**
Detail No: DE-ESC-3.4.7 Sheet 1 of 2 Effective July 2023

Standard Detail & Specifications
Culvert Inlet Protection



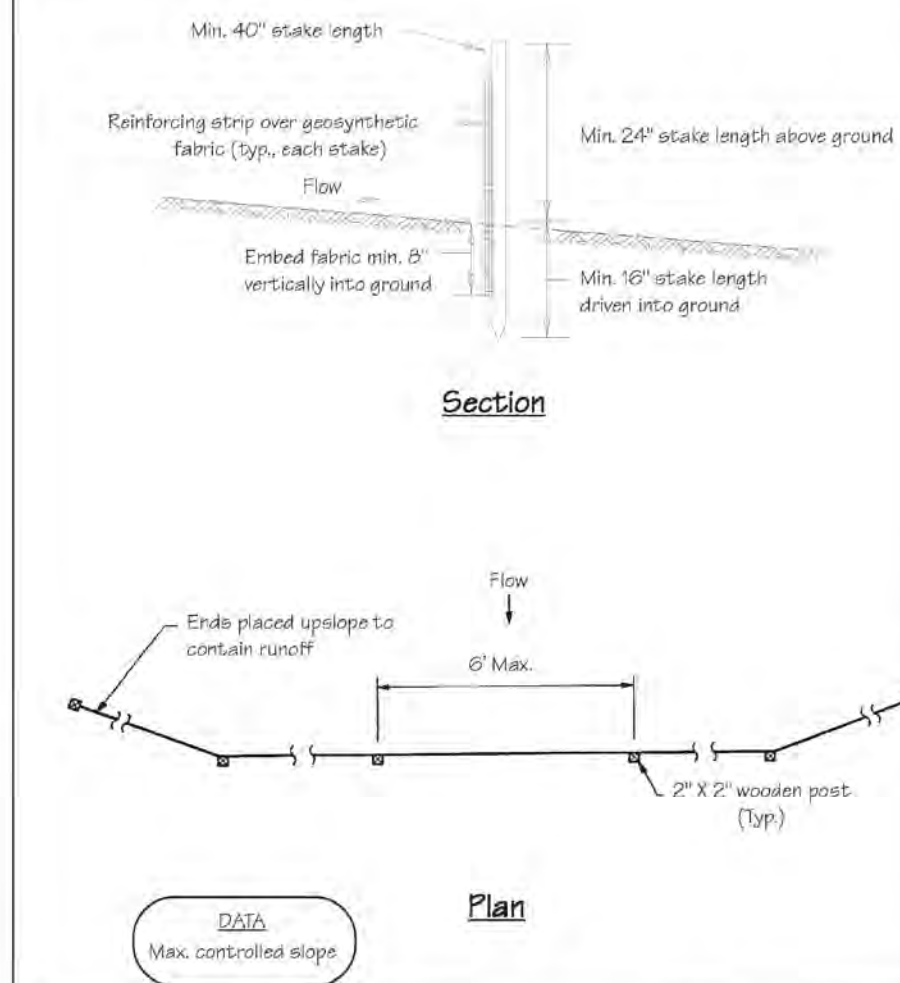
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Detail No: DE-ESC-3.1.6 Sheet 1 of 2 Effective July 2023

Standard Detail & Specifications
Inlet Protection - Type 2



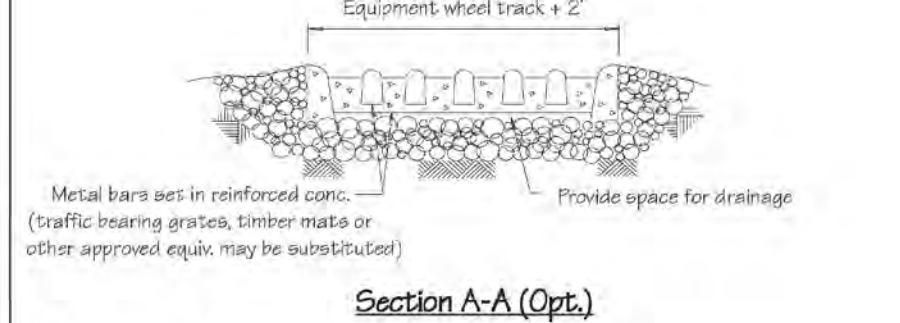
Source: Adapted from ACF Products, Inc.
Symbol: **IP-2**
Detail No: DE-ESC-3.1.5.2 Sheet 1 of 2 Effective July 2023

Standard Detail & Specifications
Silt Fence



Source: Adapted from MD Stds. & Specs. for ESC
Symbol: **SF**
Detail No: DE-ESC-3.1.2.1 Sheet 1 of 2 Effective July 2023

Standard Detail & Specifications
Stabilized Construction Entrance



- Construction Notes:**
- Stone size - Use DE #3 stone.
 - Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
 - Thickness - Not less than size (6) inches.
 - Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
 - Geotextile - Type GS-1, placed over the entire area prior to placing of stone.
 - Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
 - Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanup of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
 - Washing - Vehicle wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
 - Inspection - Periodic inspection and needed maintenance shall be provided after each rain.

Source: Adapted from VA ESC Handbook
Symbol: **SCE**
Detail No: DE-ESC-3.4.7 Sheet 2 of 2 Effective July 2023

Standard Detail & Specifications
Culvert Inlet Protection

- Construction Notes:**
- Compost logs shall be designed and installed in accordance with the Standard Detail and Specifications for Compost Logs (DE-ES-3.1.7).
 - If compost logs can not be installed properly or flow conditions exceed the design capabilities of the compost logs, the stone option shall be employed. Additional filtration may be provided by using a Type GD-II geotextile incorporated into the design as an option.
 - Placement of the compost log or stone barrier should be in a "horseshoe" shape and provide a minimum of 6 feet of clearance from the culvert inlet.

- Materials:**
- Stakes: 2" x 2" x 36" hardwood.
 - Compost media: See requirements in Standard Detail and Specifications for Compost Logs (DE-ES-3.1.7).
 - Filter sock: See requirements in Standard Detail and Specifications for Compost Logs (DE-ES-3.1.7).
 - Geotextile: Type GD-II for stone/riprap option.
 - Stone: DE No. 3 for stone/riprap option.
 - Riprap: R-6 for stone/riprap option.

Source: Adapted from VA ESC Handbook & Filtrax International
Symbol: **CIP**
Detail No: DE-ESC-3.1.6 Sheet 2 of 2 Effective July 2023

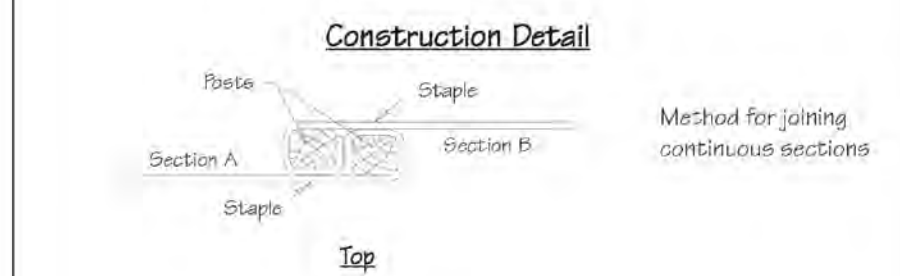
Standard Detail & Specifications
Inlet Protection - Type 2

- Notes:**
- This practice shall only be used in situations in which Inlet Protection - Type 1 cannot be used due to site constraints. These include, but are not limited to partially completed parking areas, streets, roads, etc.
 - It may be necessary to transition from Type 1 to Type 2 Inlet Protection as construction proceeds.
 - For areas where there is a concern for oil run-off or spills, insert shall meet one of the above specifications with an oil-absorbent pillow or shall be made completely from an oil-absorbent material with a woven pillow.

- Materials:**
- The geotextile inlet insert shall meet or exceed the specifications of Type GD-III geotextile in accordance with Appendix A-3 of the Delaware Erosion & Sediment Control Handbook.

Source: Adapted from ACF Products, Inc.
Symbol: **IP-2**
Detail No: DE-ESC-3.1.5.2 Sheet 2 of 2 Effective July 2023

Standard Detail & Specifications
Silt Fence



- Construction Notes:**
- Geosynthetic fabric to be fastened securely to fence posts with wire ties or staples.
 - When two sections of filter cloth adjoin each other they shall be overlapped by six inches and folded.
 - Maintenance shall be performed as needed and material removed when "bulges" develop in the silt fence.
- Materials:**
- Stakes: Steel (either T or U) or 2" x 2" hardwood.
 - Geosynthetic Fabric: Type GD-I
 - Reinforcing strip: Wooden lath or plastic strip.

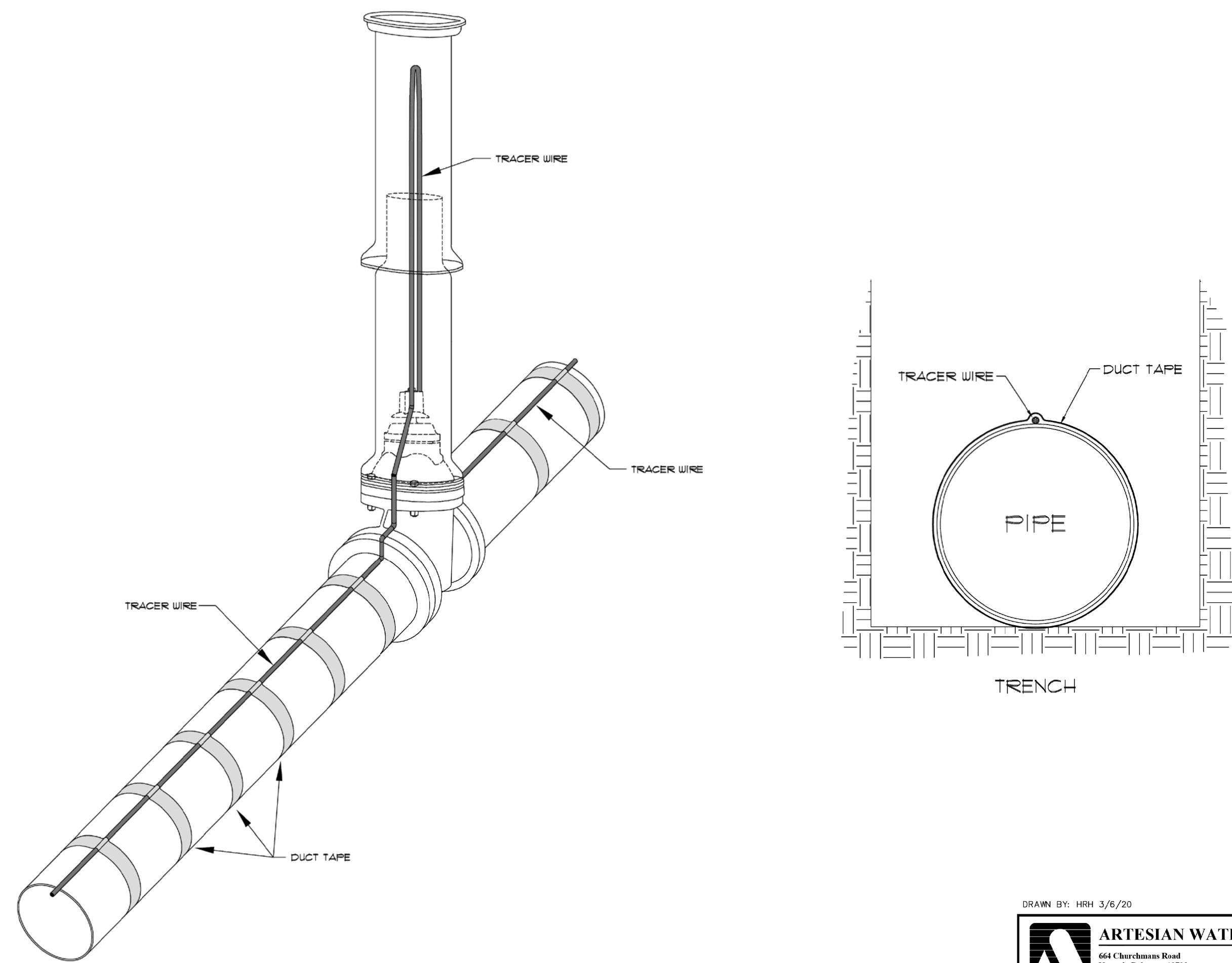
Source: Adapted from MD Stds. & Specs. for ESC
Symbol: **SF**
Detail No: DE-ESC-3.1.2.1 Sheet 2 of 2 Effective July 2023

EROSION AND SEDIMENT CONTROL NOTES:

- THE SUSSEX CONSERVATION DISTRICT MUST BE NOTIFIED IN WRITING FIVE (5) DAYS PRIOR TO COMMENCING WITH CONSTRUCTION TO SCHEDULE A PRE-CONSTRUCTION MEETING. FAILURE TO DO SO CONSTITUTES A VIOLATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLAN.
- REVIEW AND APPROVAL OF SEDIMENT AND STORMWATER MANAGEMENT PLAN SHALL NOT RELIEVE THE CONTRACTOR FROM HIS OR HER RESPONSIBILITIES FOR COMPLIANCE WITH THE REQUIREMENTS OF THE SEDIMENT AND STORMWATER REGULATIONS, NOR SHALL IT RELIEVE THE CONTRACTOR FROM ERRORS OR OMISSIONS ON THE APPROVED PLAN.
- IF THE APPROVED PLAN NEEDS TO BE MODIFIED, ADDITIONAL SEDIMENT AND STORMWATER CONTROL MEASURES MAY BE REQUIRED AS DEEMED NECESSARY BY THE SUSSEX CONSERVATION DISTRICT.
- THE SUSSEX CONSERVATION DISTRICT RESERVES THE RIGHT TO ENTER PRIVATE PROPERTY FOR PURPOSES OF PERIODIC SITE INSPECTION.
- FOLLOWING SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 14 CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER SEDIMENT CONTROLS, TOPSOIL STOCKPILES, AND ALL OTHER DISTURBED OR GRADED AREAS ON THE PROPOSED SITE.
- ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL COMPLY WITH THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK 1989 OR LATEST EDITION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN AND REPAIR ALL STORMWATER AND SEDIMENT CONTROL PRACTICES DURING CONSTRUCTION AND UTILITY INSTALLATION.
- IT SHALL BE THE OWNER'S RESPONSIBILITY TO MAINTAIN THE PROPERTY DURING THE PLAN REVIEW AND APPROVAL PROCESS. IT SHALL BE THE OWNER'S RESPONSIBILITY TO MAINTAIN STORMWATER FACILITY UPON COMPLETION.
- APPROVED PLANS REMAIN VALID FOR 5 YEARS FROM THE DATE OF AN APPROVAL.
- AS-BUILT SURVEYS AND DRAWINGS ARE TO BE SUBMITTED TO THE DISTRICT WITHIN 60-DAYS OF STORMWATER MANAGEMENT FACILITY COMPLETION.
- APPROVAL OF A SEDIMENT AND STORMWATER PLAN DOES NOT GRANT NOR IMPLY A RIGHT TO DISCHARGE STORMWATER RUNOFF. THE OWNER/DEVELOPER IS RESPONSIBLE FOR ACQUIRING ANY AND ALL AGREEMENTS, EASEMENTS, ETC., NECESSARY TO COMPLY WITH STATE DRAINAGE AND OTHER APPLICABLE LAWS.
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED PERIODICALLY AND AFTER EACH RAINFALL. MAINTENANCE MUST BE PERFORMED AFTER EACH INSPECTION AS NECESSARY. ANY ERODED AREAS SHALL BE STABILIZED AND ANY ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF ACCORDING TO PLAN.
- THE EROSION AND SEDIMENT CONTROL OBJECTIVES WILL BE ACHIEVED BY MINIMIZING EXPOSURE TIME OF POTENTIALLY ERODIBLE SOILS TO RUNOFF, AND INSTALLATION OF THE TEMPORARY AND PERMANENT CONSERVATION MEASURES IN PROPER SEQUENCE WITH CONSTRUCTION.
- TOPSOIL STOCKPILED ON THE SITE SHALL BE STABILIZED WITH SEED AND MULCH WITHIN 5 CALENDAR DAYS OF PLACEMENT OF THE TOPSOIL. THE TEMPORARY TOPSOIL STOCKPILE SHALL BE USED FOR FINAL GRADING OF SITE ALL REMAINING STOCKPILED MATERIAL, IF APPLICABLE SHALL BE REMOVED FROM THE SITE IN AN APPROVED MANNER.
- CONTRACTOR SHALL TAKE CARE NOT TO "TRACK" MUD OFF SITE WITH CONSTRUCTION VEHICLES AND EQUIPMENT.
- ALL AREAS NOT STABILIZED BY STONE BASE COARSE OR PAVING ARE TO BE STABILIZED ACCORDING TO THE STABILIZATION SCHEDULE IMMEDIATELY AFTER DESIGN GRADE IS ACHIEVED. HYDRO SEEDING IS RECOMMENDED WHERE SLOPES EXCEED 3:1.
- IN THE EVENT EARTHWORK OPERATIONS ARE HALTED FOR THE WINTER MONTHS, BEFORE FINAL GRADING AND SEEDING OF ALL DISTURBED AREAS ARE COMPLETED, THOSE AREAS ARE TO BE STABILIZED PER THE STABILIZATION GUIDELINES OR STABILIZED WITH A MULCH, OR TACKED WITH A CHEMICAL ADHESIVE.
- EROSION CONTROL MATTING SHALL BE USED ON ALL SLOPES THAT ARE 3:1 (3 UNITS HORIZONTAL TO 1 UNIT VERTICAL) OR GREATER AND IN AREAS OF CONCENTRATED FLOW WHERE GRADES EXCEED 1% AND IN DISTURBED AREAS WHERE HIGHLY ERODIBLE SOILS ARE PRESENT. EROSION CONTROL BLANKET SHALL BE TYPE S-150 AS MANUFACTURED BY NORTH AMERICAN GREEN OR AN APPROVED EQUIVALENT.
- IF DUST CONTROL BECOMES A PROBLEM, METHODS SUCH AS MULCHING, OR SPRINKLING WATER SHALL BE IMPLEMENTED.
- ALL FILTER FABRIC TO BE USED UNDER RIP-RAP SHALL BE Mirafi 600X OR APPROVED EQUIVALENT.
- AT ANY TIME A DEWATERING OPERATION IS USED, IT SHALL BE PREVIOUSLY APPROVED BY THE AGENCY CONSTRUCTION SITE REVIEWER FOR A NON-EROSIVE POINT OF DISCHARGE, AND A DEWATERING PERMIT SHALL BE APPROVED BY THE DNREC WELL PERMITTING BRANCH.
- POST CONSTRUCTION VERIFICATION DOCUMENTS ARE TO BE SUBMITTED TO THE DNREC SEDIMENT AND STORM WATER PROGRAM OR THE RELEVANT DELEGATED AGENCY WITHIN 60 DAYS OF STORM WATER MANAGEMENT FACILITY COMPLETION.
- THE NOTICE OF INTENT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER A NPDES GENERAL PERMIT FOR THIS PROJECT IS #5540. AT ANY TIME THE OWNERSHIP OF THIS PROJECT CHANGES, A TRANSFER OF AUTHORIZATION OR A CO-PERMITTEE APPLICATION MUST BE SUBMITTED TO DNREC. THE PERMITTEE OF RECORD SHALL NOT BE RELIEVED OF THEIR RESPONSIBILITIES UNTIL A NOTICE OF TERMINATION HAS BEEN PROCESSED BY DNREC.
- THE OWNER SHALL BE FAMILIAR WITH AND COMPLY WITH ALL ASPECTS OF THE NPDES CONSTRUCTION GENERAL PERMIT ASSOCIATED WITH THE PROJECT, INCLUDING, BUT NOT LIMITED TO, PERFORMING WEEKLY SITE INSPECTIONS DURING CONSTRUCTION AND AFTER RAIN EVENTS, AND MAINTAINING WRITTEN LOGS OF THESE INSPECTIONS.
- BEFORE ANY EARTHWORK OR EXCAVATION TAKES PLACE, THE CONTRACTOR SHALL CALL MISS UTILITY AT 811 OR 1-800-282-8555 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, TO HAVE ALL EXISTING UTILITIES MARKED ON-SITE.
- THE CONTRACTOR SHALL AT ALL TIMES PROTECT AGAINST SEDIMENT OR DEBRIS LADEN RUNOFF OR WIND FROM LEAVING THE SITE. PERIMETER CONTROLS SHALL BE CHECKED DAILY AND ADJUSTED AND/OR REPAIRED TO FULLY CONTROL AND CONTROL SEDIMENT FROM LEAVING THE SITE. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED HALF OF THE EFFECTIVE CAPACITY OF THE CONTROL. IN ADDITION, THE CONTRACTOR MAY NEED TO ADJUST OR ALTER MEASURES IN TIMES OF ADVERSE WEATHER CONDITIONS, OR AS DIRECTED BY THE AGENCY CONSTRUCTION SITE REVIEWER.
- BEST AVAILABLE TECHNOLOGY (BAT) SHALL BE EMPLOYED TO MANAGE TURBID DISCHARGES IN ACCORDANCE WITH REQUIREMENTS OF 7 Delt.C. Ch 60, REGULATIONS GOVERNING THE CONTROL OF WATER POLLUTION, SECTION 9.1.02, KNOWN AS SPECIAL CONDITIONS FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES, AND DEPARTMENT POLICIES, PROCEDURES, AND GUIDANCE.
- DOCUMENTATION OF SOIL TESTING AND MATERIALS USED FOR TEMPORARY OR PERMANENT STABILIZATION INCLUDING BUT NOT LIMITED TO SOIL TEST RESULTS, SEED TAGS, SOIL AMENDMENT TAGS, ETC. SHALL BE PROVIDED TO THE DEPARTMENT OR DELEGATED AGENCY TO VERIFY THAT THE PERMANENT OR TEMPORARY STABILIZATION HAS BEEN COMPLETED IN ACCORDANCE WITH THE APPROVED PLAN. THE DEPARTMENT OR DELEGATED AGENCY MAY REQUIRE ADDITIONAL SOIL TESTING AND REAPPLICATION OF PERMANENT OR TEMPORARY STABILIZATION IN ACCORDANCE WITH SPECIFICATIONS PROVIDED IN THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK, OR ALTERNATIVE MEASURES THAT PROVIDE FUNCTIONAL EQUIVALENCY.



5/1/2026



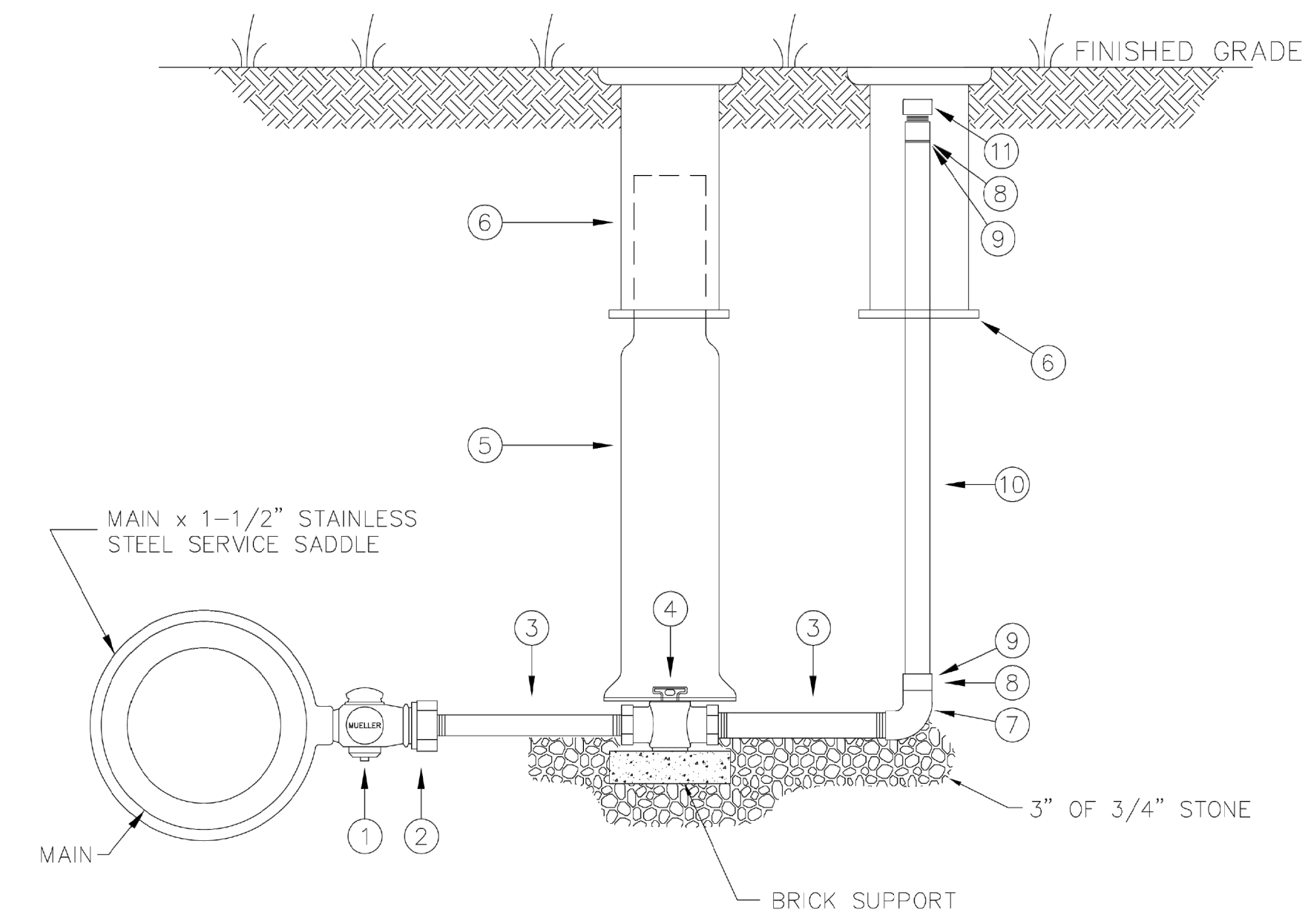
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DRAWN BY: HRH 3/6/20

ARTESIAN WATER COMPANY, INC.

664 Churchmans Road
Newark, Delaware 19702
P.O. Box 15004, Wilmington, Delaware 19850
Phone: (302) 453-6900 Fax: (302) 453-5800

14761 Coastal Highway
Mills, Delaware 19966
Phone: (302) 645-7299 Fax: (302) 645-8233



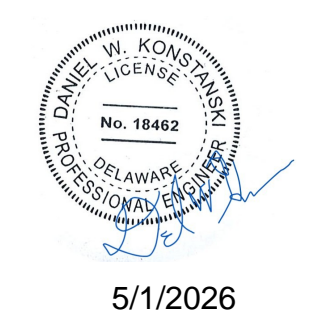
NOTE:
42" COVER FROM FINISHED GRADE TO TOP OF PIPE UNLESS OTHERWISE INSTRUCTED BY ARTESIAN WATER COMPANY, INC.

SPECIFICATIONS DUE TO CHANGE WITHOUT NOTICE. CONTACT ARTESIAN WATER COMPANY, INC. FOR LATEST REVISION.

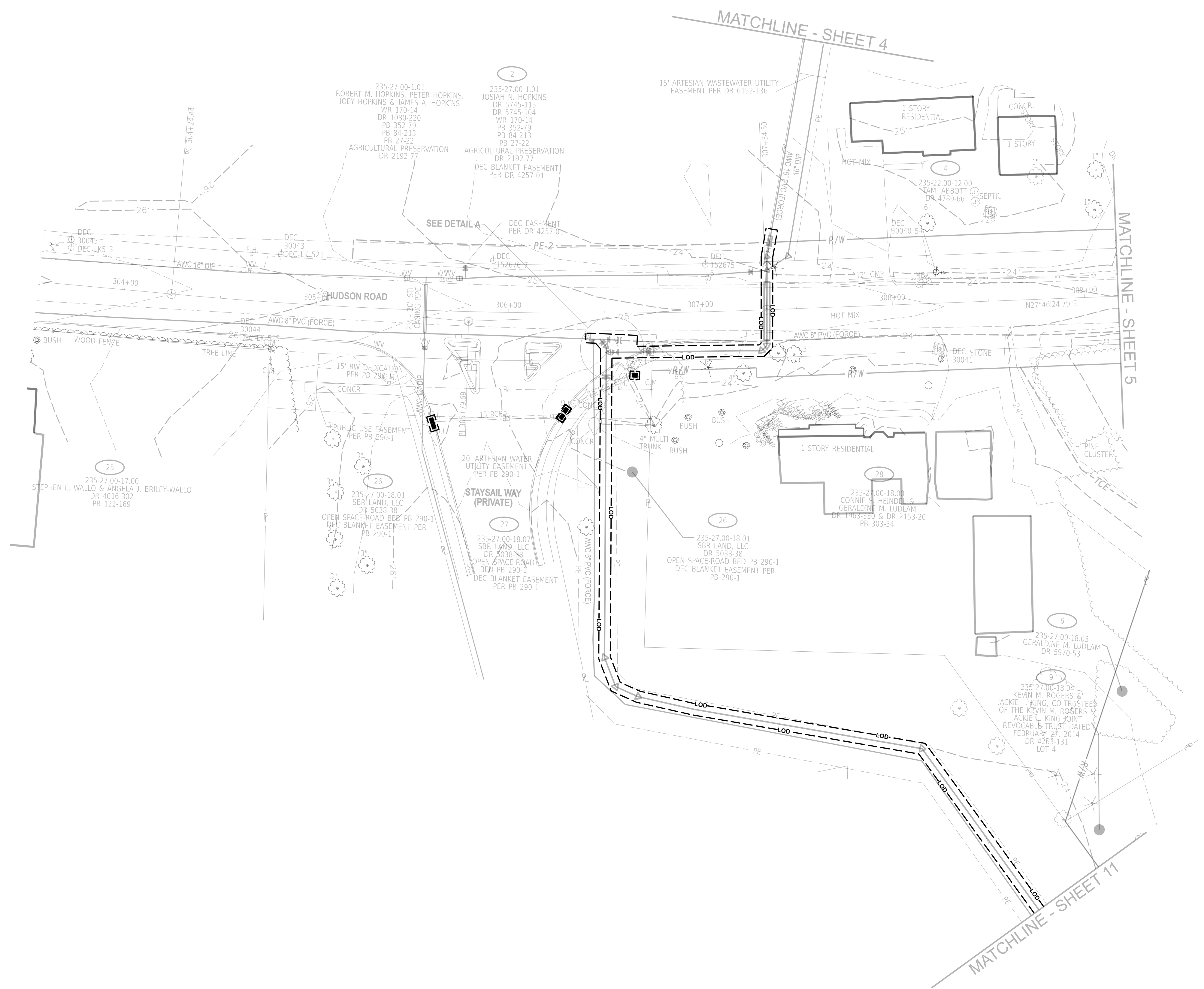
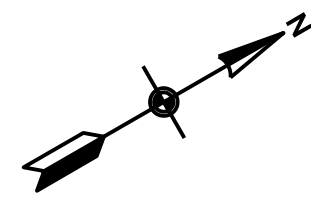
ARTESIAN WATER COMPANY, INC.	664 Churchmans Road Newark, Delaware 19702 P.O. Box 15004, Wilmington, Delaware 19850 Phone: (302) 453-6900 Fax: (302) 453-5800	14761 Coastal Highway Mills, Delaware 19966 Phone: (302) 645-7299 Fax: (302) 645-8233	Revised: 10/13/16	Date: 5/24/08	Checked By:	Sheet 1 of 1
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SERVICE MATERIAL LIST		
(SEE ARTESIAN WATER CO. INC. STANDARD SPECIFICATIONS FOR MANUFACTURER & MODEL INFORMATION)		
ITEM	QUANTITY	MATERIAL
1	1	1-1/2x2_CORP_CTS
2	1	2_BRASS_COUPLING
3	2	2x6_BRASS_NIPPLES
4	1	2_CURBSTOP
5	1	VALVE_BOX_BOTTOM
6	2	VALVE_BOX_TOP
7	1	2_BRASS_90
8	2	2_INSERT_CTS
9	2	2_MALExCTS
10	7	2_CTS_PE
11	1	2_BRASS_CAP

2" Blow-Off CTS



5/1/2026



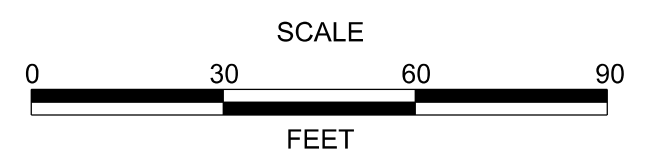
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MATCHLINE - SHEET 5

MATCHLINE - SHEET 11



ADDENDUMS / REVISIONS	
	FINAL: 2/27/2026



CAVE NECK ROAD, HUDSON AND SWEETBRIAR ROADS INTERSECTION IMPROVEMENTS

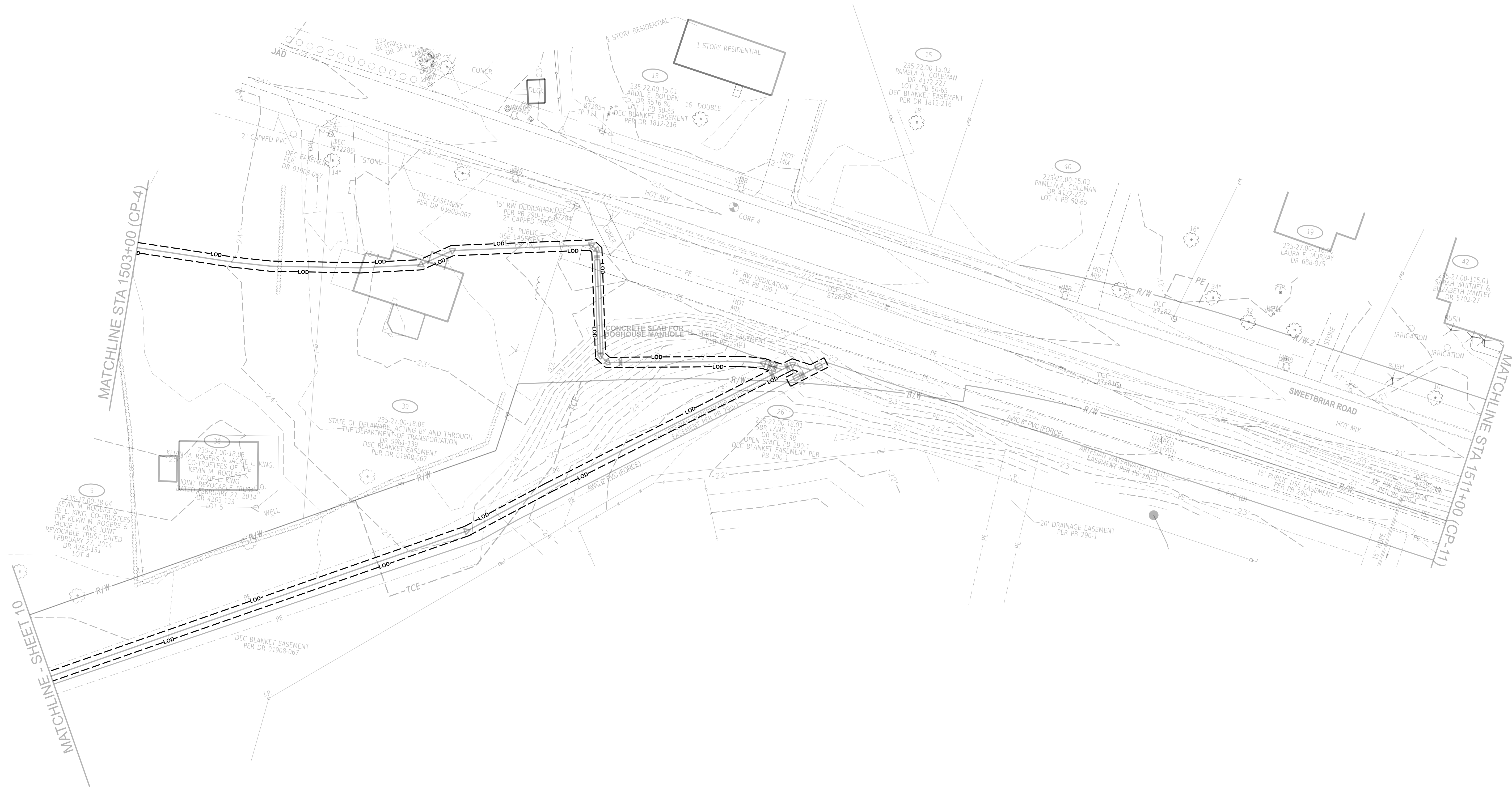
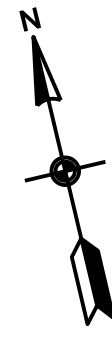
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T202104304	DESIGNED BY:	EZ
COUNTY	CHECKED BY:	WFT
SUSSEX		

EROSION & SEDIMENT PLAN

SHEET NO.	25
TOTAL SHTS.	29



5/1/2026



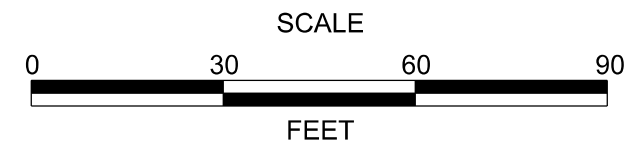
5/1/2026



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ADDENDUMS / REVISIONS

FINAL: 2/27/2026



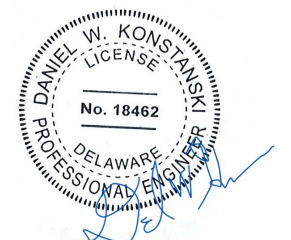
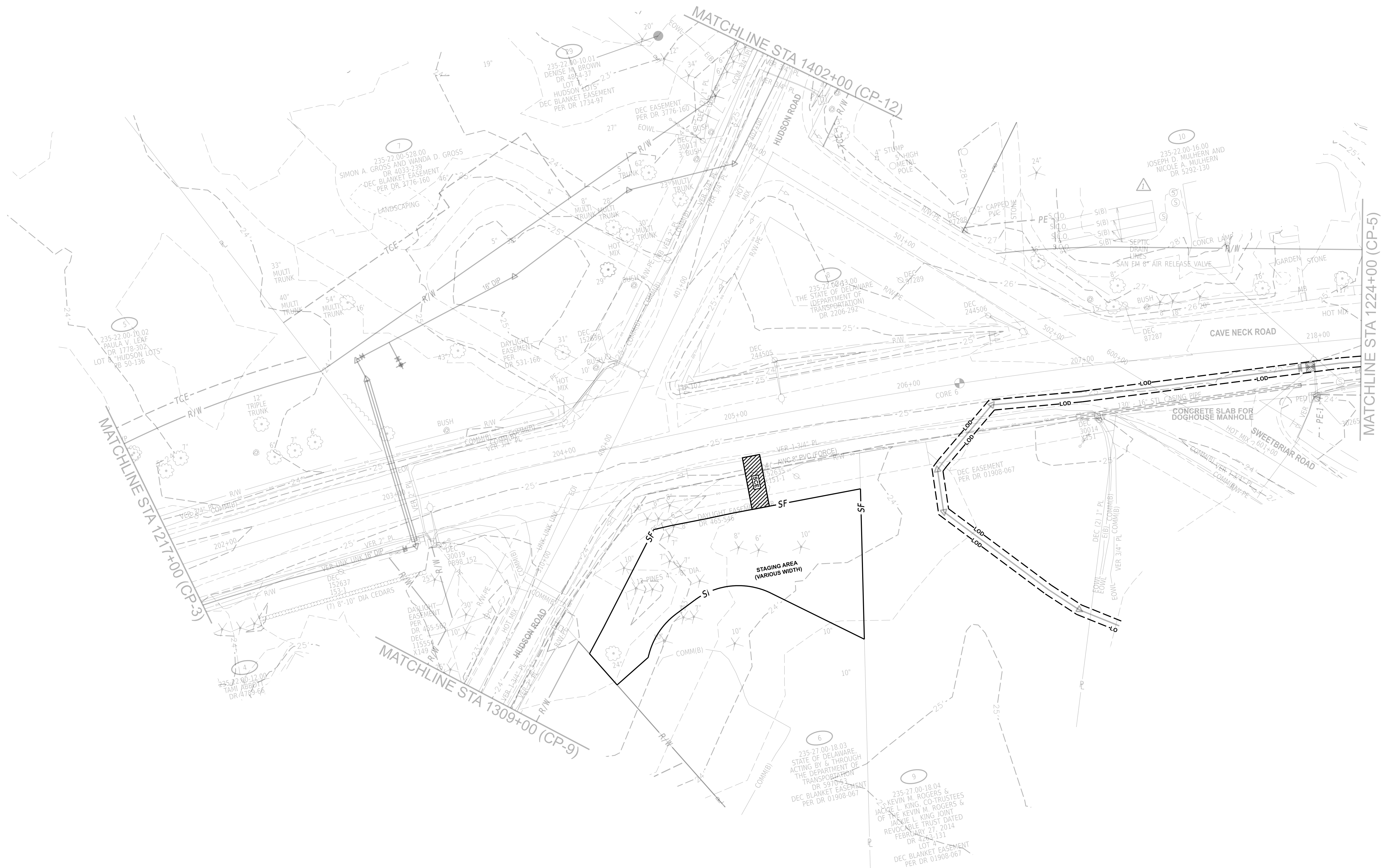
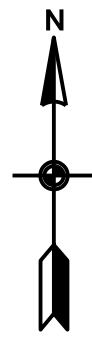
**CAVE NECK ROAD, HUDSON
AND SWEETBRIAR ROADS
INTERSECTION IMPROVEMENTS**

DELDOT CONTRACT
T202104304
COUNTY
SUSSEX

AWC PROJECT NO. **3006484**
DESIGNED BY: EZ
CHECKED BY: WFT

**EROSION & SEDIMENT
PLAN**

SHEET NO.
26
TOTAL SHTS.
29



5/1/2026



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ADDENDUMS / REVISIONS

FINAL: 2/27/2026

SCALE



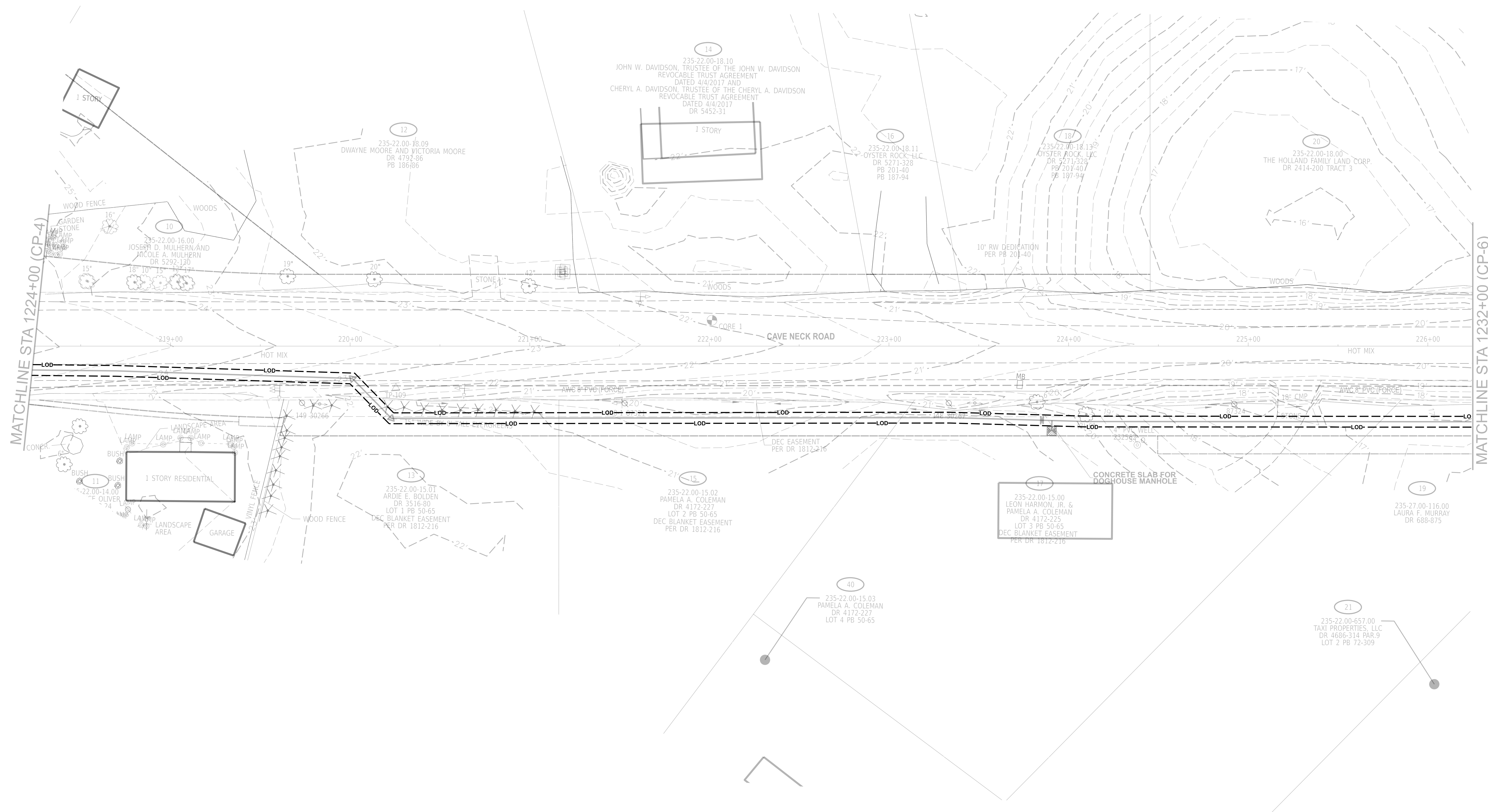
**CAVE NECK ROAD, HUDSON
 AND SWEETBRIAR ROADS
 INTERSECTION IMPROVEMENTS**

DELDOT CONTRACT
 T202104304
 COUNTY
 SUSSEX

AWC PROJECT NO. 3006484
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 CHECKED BY: WFT

**EROSION & SEDIMENT
 PLAN**

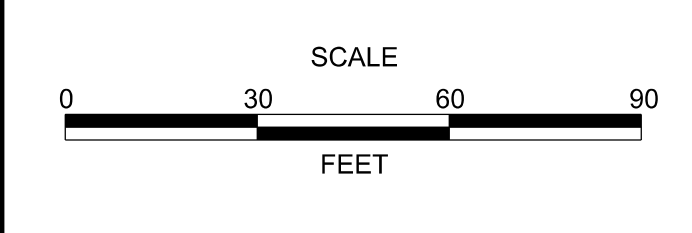
SHEET NO.
 27
 TOTAL SHTS.
 29



5/1/2026

ARTESIAN
ARTESIAN WASTEWATER MANAGEMENT, INC.
664 Churchmans Road
Newark, Delaware 19702
P.O. Box 15004, Wilmington, Delaware 19850
Phone: (302) 453-6900 Fax: (302) 453-5800

ADDENDUMS / REVISIONS	
FINAL: 2/27/2026	

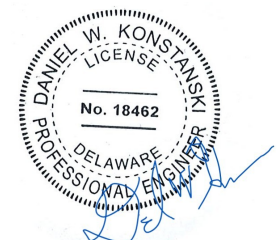
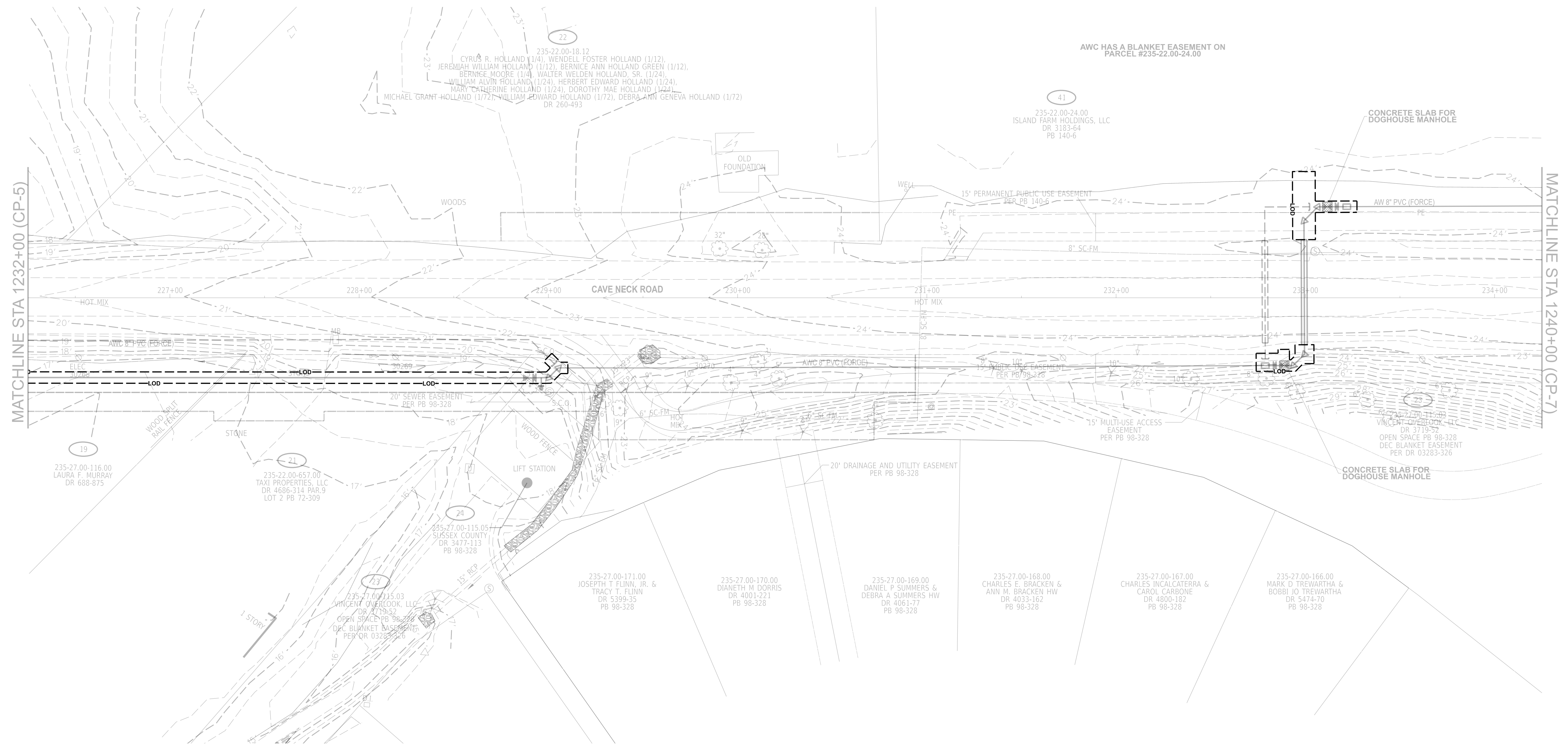


CAVE NECK ROAD, HUDSON AND SWEETBRIAR ROADS INTERSECTION IMPROVEMENTS

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T202104304	DESIGNED BY:	EZ
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EROSION & SEDIMENT PLAN

SHEET NO.	28
TOTAL SHTS.	29



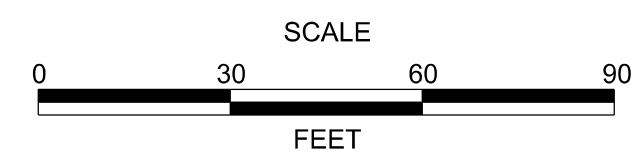
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**CAVE NECK ROAD, HUDSON
AND SWEETBRIAR ROADS
INTERSECTION IMPROVEMENTS**

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**EROSION & SEDIMENT
PLAN**

SHEET NO.	29
TOTAL SHTS.	29