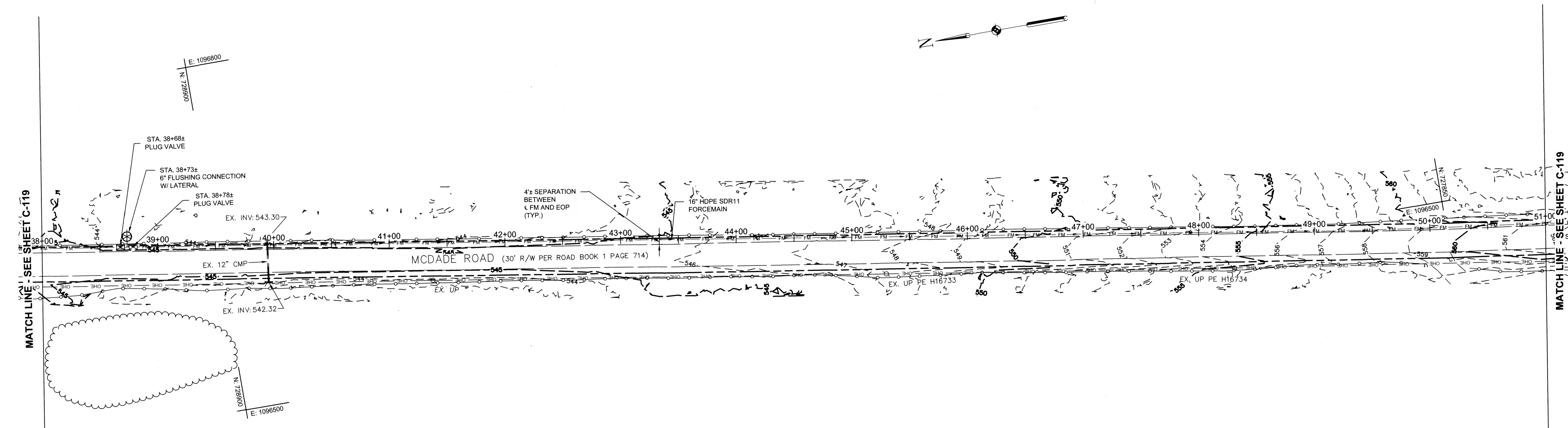
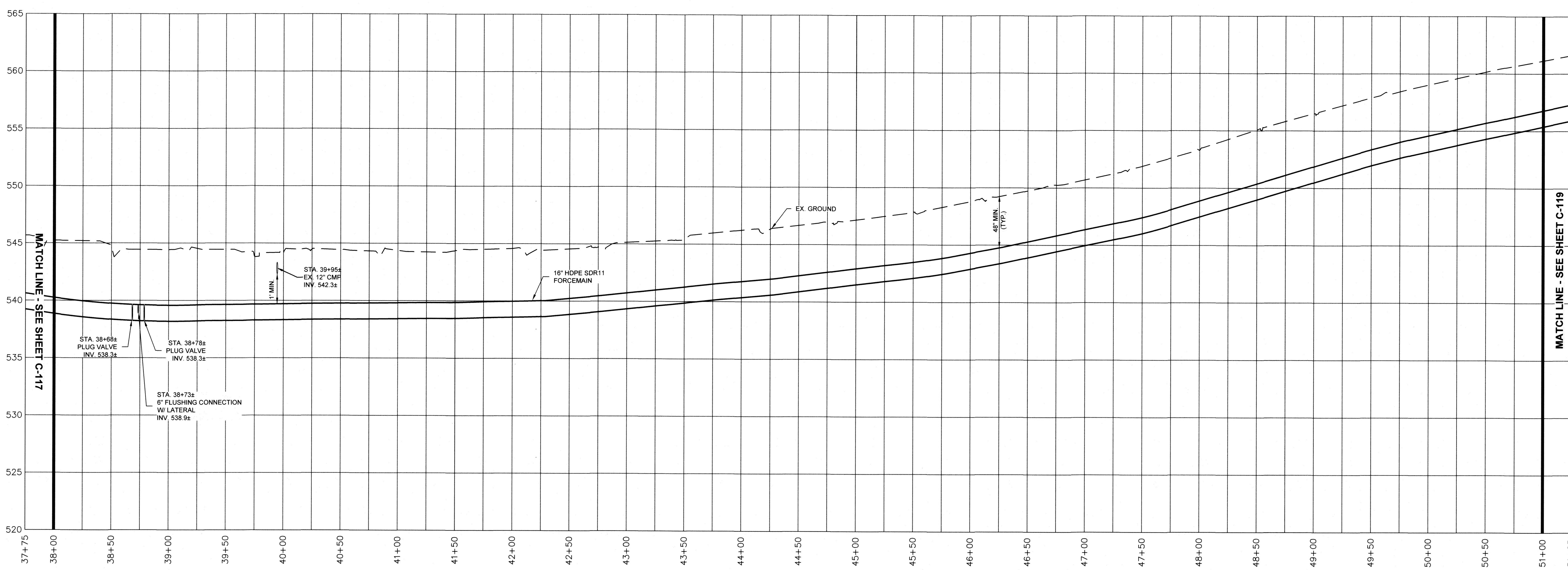


PROPOSED FORCEMAIN ROUTING - STA. 38+00 TO 51+00

SCALE: 1" = 50'



PROPOSED FORCEMAIN PROFILE- STA. 38+00 TO 51+00

HORIZONTAL SCALE: 1" = 50'

VERTICAL SCALE: 1" = 5'

NOTE:

1. FLUSHING CONNECTION PER DETAIL SHOWN ON SHEET C-506 FOR FLUSHING CONNECTION WITH LATERAL. VALVE BOXES TO BE INSTALLED AT PLUG VALVES INSTALLED ON FORCEMAIN FOR VALVE ACCESS AT GRADE.

0 25 50 100
GRAPHIC SCALE IN FEET

0 2.5 5 10
GRAPHIC SCALE IN FEET

REVISIONS

NO.	DATE	BY	DESCRIPTION

DESIGN INFORMATION

DESIGNED BY: RCI/SMD

DRAWN BY: SMB/CAG/JRG

CHECKED BY: SMD

PROJECT MANAGER: RCI

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 15453 EXPIRATION DATE: 7/02/2023

SEAL

STATE OF MARYLAND
GEOFFREY A. ZIZARD II
No. 15453
PROFESSIONAL ENGINEER

WASHINGTON COUNTY DEPARTMENT OF ENGINEERING SERVICES

16232 ELLIOTT PARKWAY

WILLIAMSPORT, MD 21795

WASHINGTON COUNTY, MARYLAND

NEW REGIONAL PROPOSED FORCEMAIN ROUTING STA. 38+00 TO 51+00

EA Engineering, Science, and Technology, Inc., PBC

Hunt Valley Center
225 Schilling Circle, Suite 400
Hunt Valley, Maryland 21031
(410) 584-7000

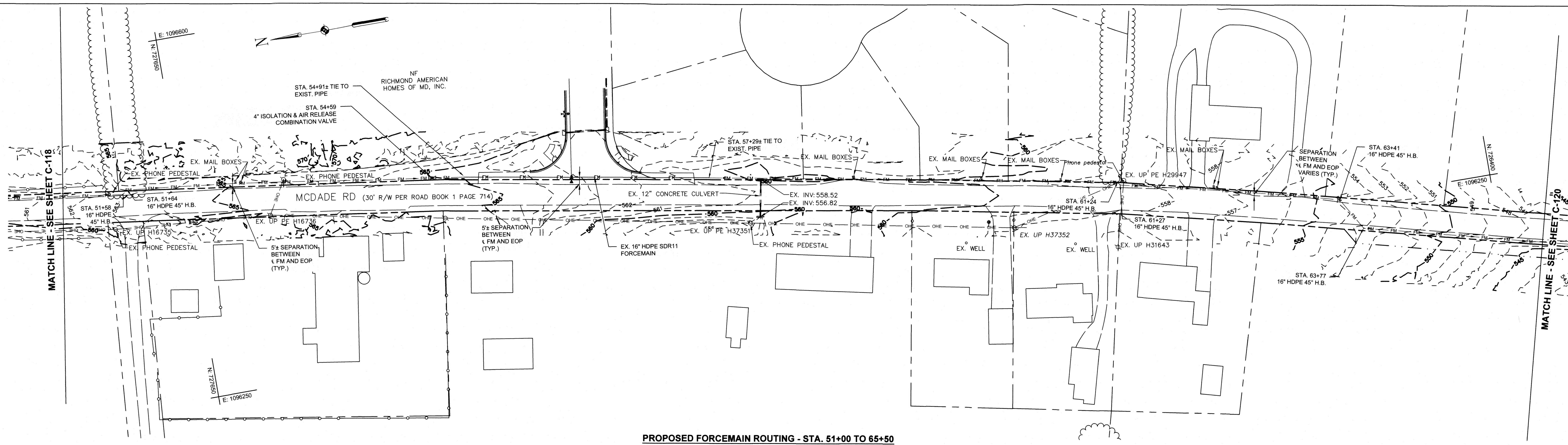
DATE: APRIL 2022

PROJECT NUMBER: 1556701

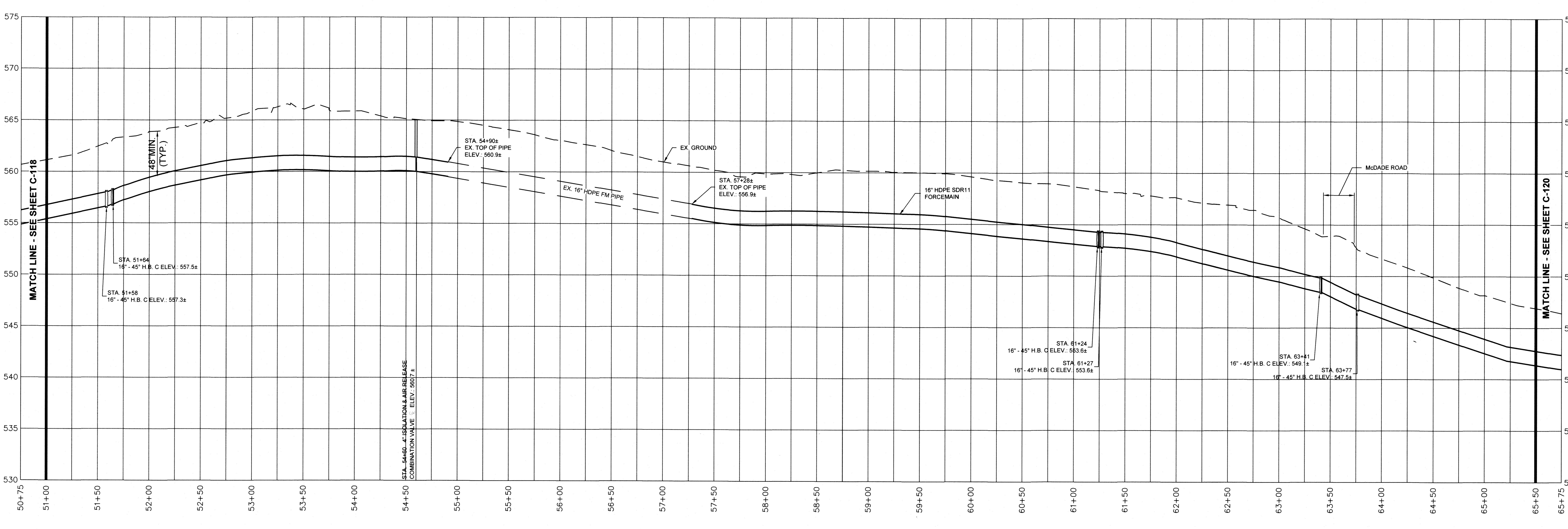
C-118

SHEET: 21 OF 76

SP-21-025 / SWCP-21-020



PROPOSED FORCEMAIN ROUTING - STA. 51+00 TO 65+50
SCALE: 1" = 50'



PROPOSED FORCEMAIN PROFILE- STA. 51+00 TO 65+50
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

NOTE:

1. AIR RELEASE VALVES PER COUNTY STANDARD DETAIL S-7.2A SHOWN ON SHEET C-506.

0 25 50 100
GRAPHIC SCALE IN FEET

0 2.5 5 10
GRAPHIC SCALE IN FEET

REVISIONS

NO.	DATE	BY	DESCRIPTION

DESIGN INFORMATION
DESIGNED BY: RCI/SMD
DRAWN BY: SMB/CAG/JRG
CHECKED BY: SMD
PROJECT MANAGER: RCI

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 15453 EXPIRATION DATE: 7/02/2023

SEAL

WASHINGTON COUNTY DEPARTMENT OF ENGINEERING SERVICES
16232 ELLIOTT PARKWAY
WILLIAMSPORT, MD 21795
WASHINGTON COUNTY, MARYLAND

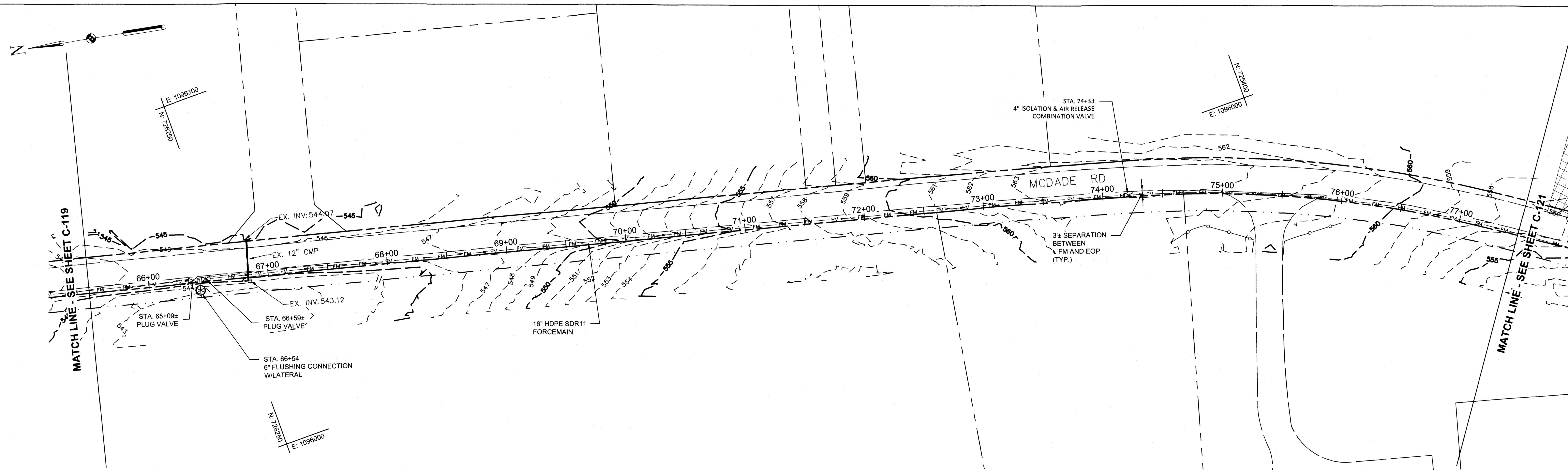
NEW REGIONAL PROPOSED FORCEMAIN ROUTING STA. 51+00 TO 65+50

EA Engineering, Science, and Technology, Inc., PBC
Hunt Valley Center
225 Schilling Circle, Suite 400
Hunt Valley, Maryland 21031
(410) 584-7000

DATE: APRIL 2022
PROJECT NUMBER: 1556701

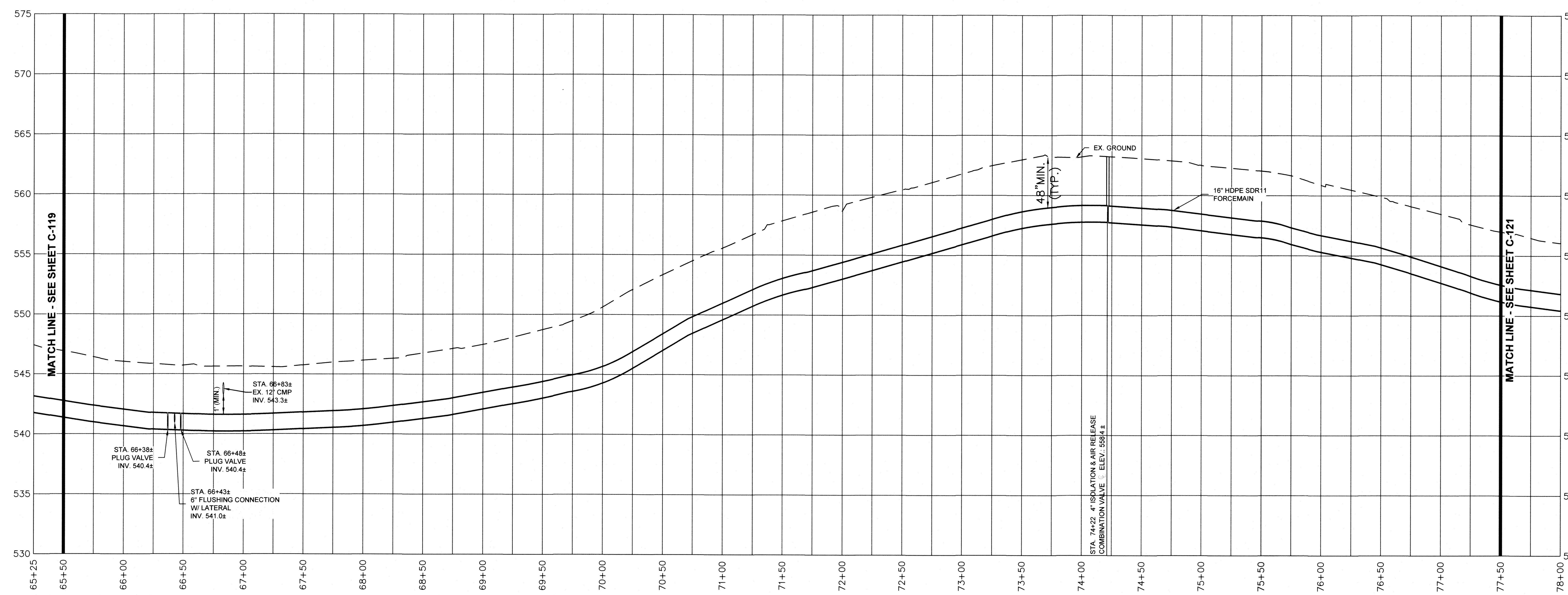
C-119
SHEET: 22 OF 76

SP-21-025 / SWCP-21-020



PROPOSED FORCEMAIN ROUTING - STA. 65+50 TO 77+50

SCALE: 1" = 50'



PROPOSED FORCEMAIN PROFILE- STA. 65+50 TO 77+50

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

NOTE:

1. AIR RELEASE VALVES PER COUNTY STANDARD DETAIL S-7.2A SHOWN ON SHEET C-506.
2. FLUSHING CONNECTION PER DETAIL SHOWN ON SHEET C-506 FOR FLUSHING CONNECTION WITH LATERAL. VALVE BOXES TO BE INSTALLED AT PLUG VALVES INSTALLED ON FORCEMAIN FOR VALVE ACCESS AT GRADE.

GRAPHIC SCALE IN FEET (0, 25, 50, 100)

GRAPHIC SCALE IN FEET (0, 2.5, 5, 10)

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGN INFORMATION
DESIGNED BY: RCI/SMD
DRAWN BY: SMB/CAG/JRG
CHECKED BY: SMD
PROJECT MANAGER: RCI

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 15453 EXPIRATION DATE: 7/02/2023

SEAL

WASHINGTON COUNTY DEPARTMENT OF ENGINEERING SERVICES
16232 ELLIOTT PARKWAY
WILLIAMSPORT, MD 21795
WASHINGTON COUNTY, MARYLAND

NEW REGIONAL PROPOSED FORCEMAIN ROUTING STA. 65+50 TO 77+50

EA Engineering, Science, and Technology, Inc., PBC
Hunt Valley Center
225 Schilling Circle, Suite 400
Hunt Valley, Maryland 21031
(410) 584-7000

DATE: APRIL 2022

PROJECT NUMBER: 1556701

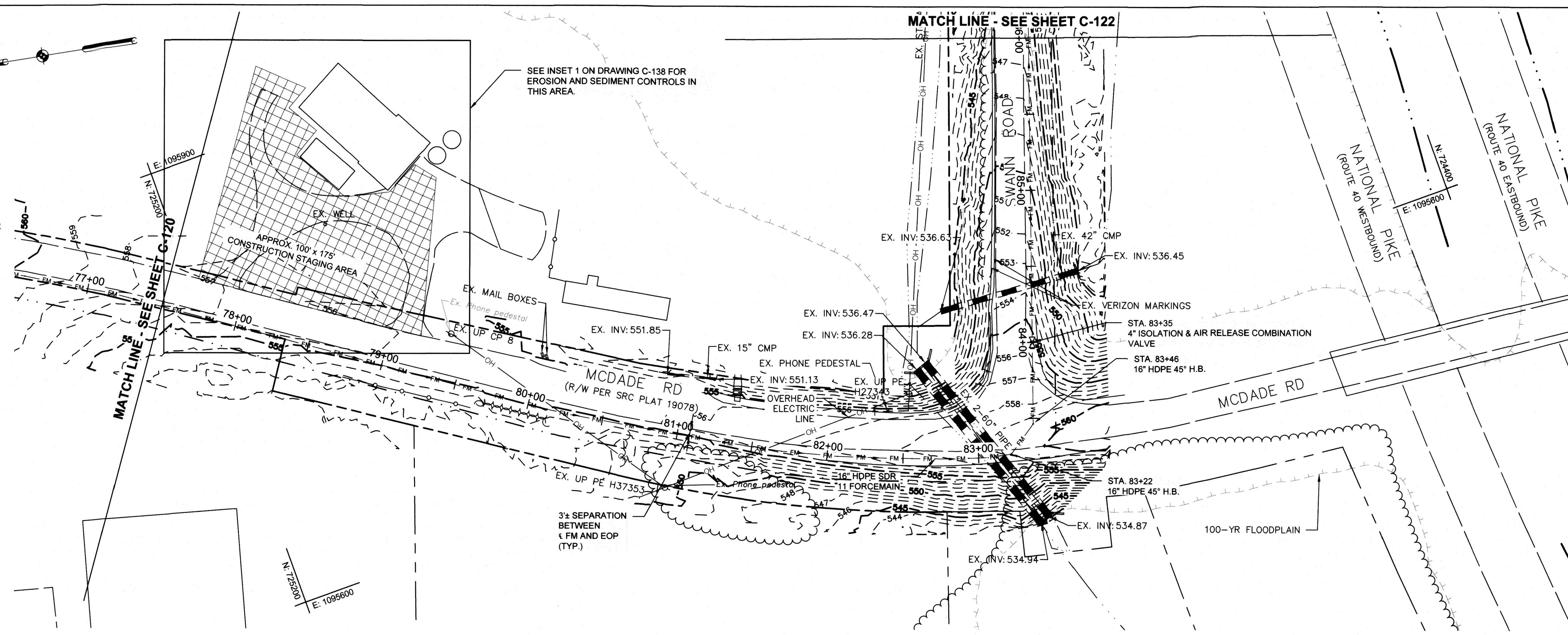
C-120

SHEET: 23 OF 76

SP-21-025 / SWCP-21-020

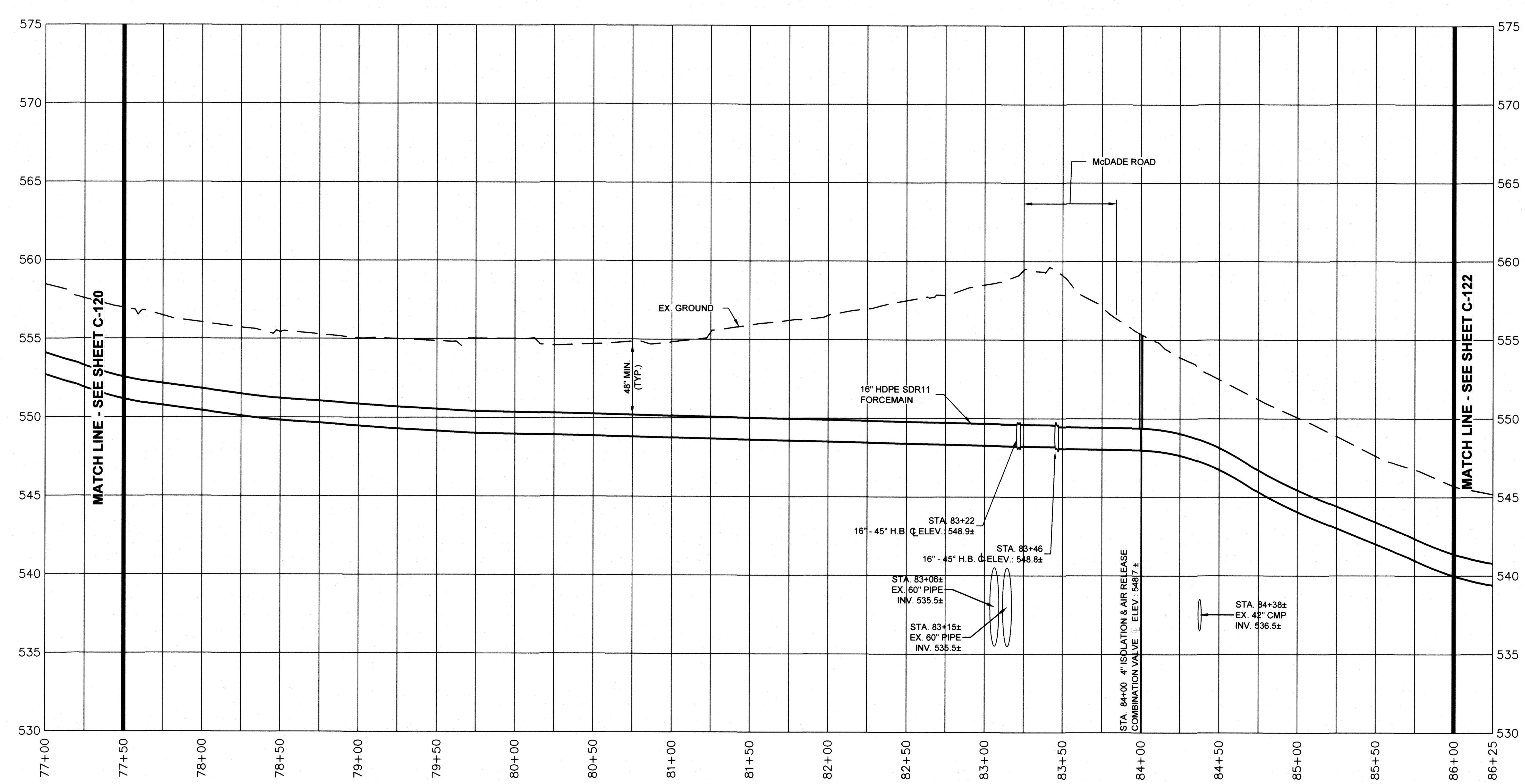
NOTES:

1. EXISTING TREES WITHIN CONTRACTOR'S STAGING AREA TO REMAIN. CONTRACTOR SHALL PROTECT EXISTING TREES AND TREE ROOT SYSTEM.
2. CONTRACTOR'S STAGING AREA USAGE SHALL NOT IMPEDE EGRESS FROM THE PROPERTY. ACCESS TO DRIVEWAYS WITHIN STAGING AREA SHALL BE MAINTAINED AT ALL TIMES.
3. CONTRACTOR SHALL NOTIFY MISS UTILITY AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION TO HAVE UNDERGROUND UTILITIES MARKED. UTILITIES SHOWN HEREON ARE APPROXIMATE AND WERE OBTAINED FROM FIELD RUN SURVEY AND AVAILABLE WASHINGTON COUNTY GIS DATA. UTILITY CONFLICTS ARE ANTICIPATED IN THIS AREA.



PROPOSED FORCEMAIN ROUTING - STA. 77+50 TO 86+00

SCALE: 1" = 50'



PROPOSED FORCEMAIN PROFILE- STA. 77+50 TO 86+00

HORIZONTAL SCALE: 1" = 50'

VERTICAL SCALE: 1" = 5'

NOTE:

1. AIR RELEASE VALVES PER COUNTY STANDARD DETAIL S-7.2A SHOWN ON SHEET C-506.

GRAPHIC SCALE IN FEET (0, 25, 50, 100)

GRAPHIC SCALE IN FEET (0, 2.5, 5, 10)

REVISIONS: NO. | DATE | BY | DESCRIPTION

DESIGN INFORMATION
DESIGNED BY: RCI/SMD
DRAWN BY: SMB/CAG/JRG
CHECKED BY: SMD
PROJECT MANAGER: RCI

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 15453 EXPIRATION DATE: 7/02/2023

SEAL

WASHINGTON COUNTY DEPARTMENT OF ENGINEERING SERVICES
16232 ELLIOTT PARKWAY
WILLIAMSPORT, MD 21795
WASHINGTON COUNTY, MARYLAND

NEW REGIONAL PROPOSED FORCEMAIN ROUTING STA. 77+50 TO 86+00

EA Engineering, Science, and Technology, Inc., PBC
Hunt Valley Center
225 Schilling Circle, Suite 400
Hunt Valley, Maryland 21031
(410) 584-7000

DATE: APRIL 2022

PROJECT NUMBER: 1556701

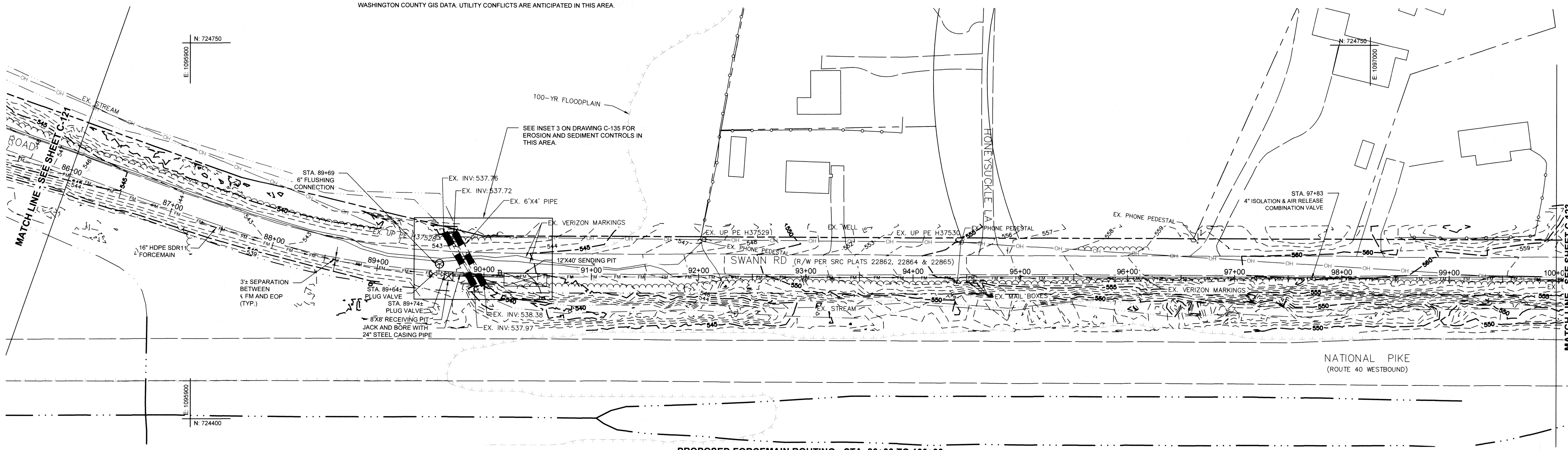
C-121

SHEET: 24 OF 76

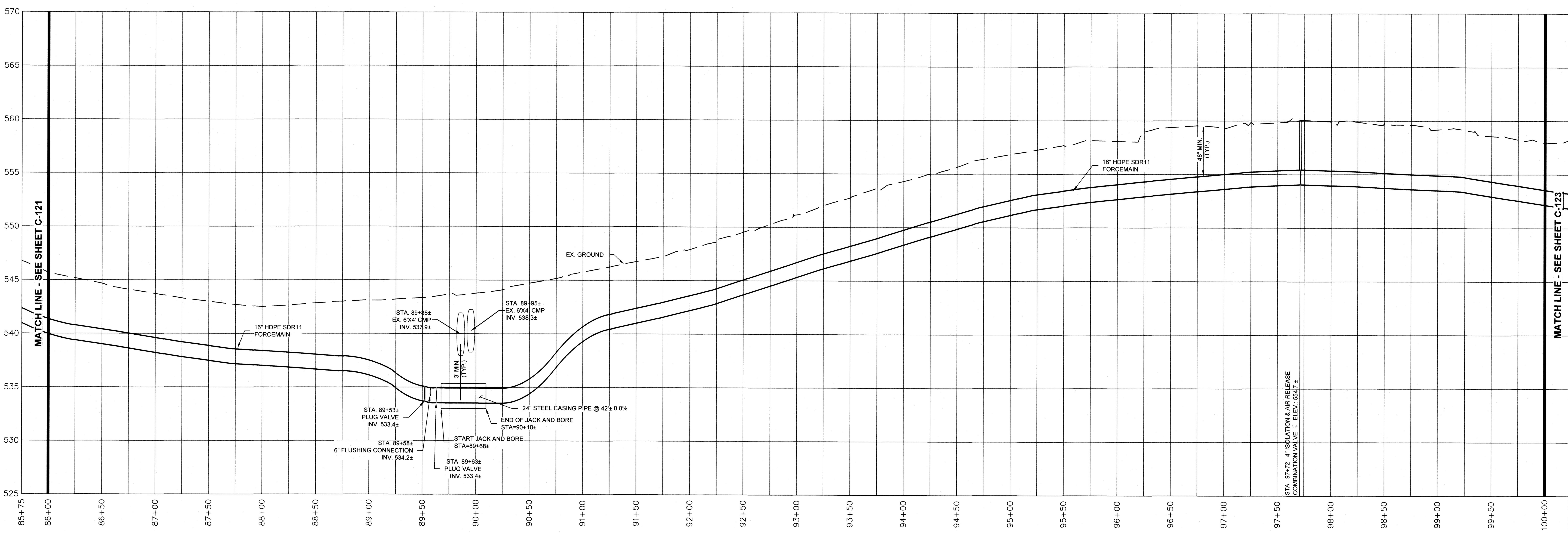
SP-21-025 / SWCP-21-020

NOTE:

CONTRACTOR SHALL NOTIFY MISS UTILITY AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION TO HAVE UNDERGROUND UTILITIES MARKED. UTILITIES SHOWN HEREON ARE APPROXIMATE AND WERE OBTAINED FROM FIELD RUN SURVEY AND AVAILABLE WASHINGTON COUNTY GIS DATA. UTILITY CONFLICTS ARE ANTICIPATED IN THIS AREA.



PROPOSED FORCEMAIN ROUTING - STA. 86+00 TO 100+00
SCALE: 1" = 50'



PROPOSED FORCEMAIN PROFILE- STA. 86+00 TO 100+00
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

NOTES:

1. AIR RELEASE VALVES PER COUNTY STANDARD DETAIL S-7.2A SHOWN ON SHEET C-506.
2. FLUSHING CONNECTION PER COUNTY STANDARD DETAIL S-7.4 SHOWN ON SHEET C-506. VALVE BOXES TO BE INSTALLED AT PLUG VALVES INSTALLED ON FORCEMAIN FOR VALVE ACCESS AT GRADE.

0 25 50 100
GRAPHIC SCALE IN FEET

0 2.5 5 10
GRAPHIC SCALE IN FEET

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGN INFORMATION
DESIGNED BY: RCI/SMD
DRAWN BY: SMB/CAG/JRG
CHECKED BY: SMD
PROJECT MANAGER: RCI

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SEAL

WASHINGTON COUNTY DEPARTMENT OF ENGINEERING SERVICES
16232 ELLIOTT PARKWAY
WILLIAMSPORT, MD 21795
WASHINGTON COUNTY, MARYLAND

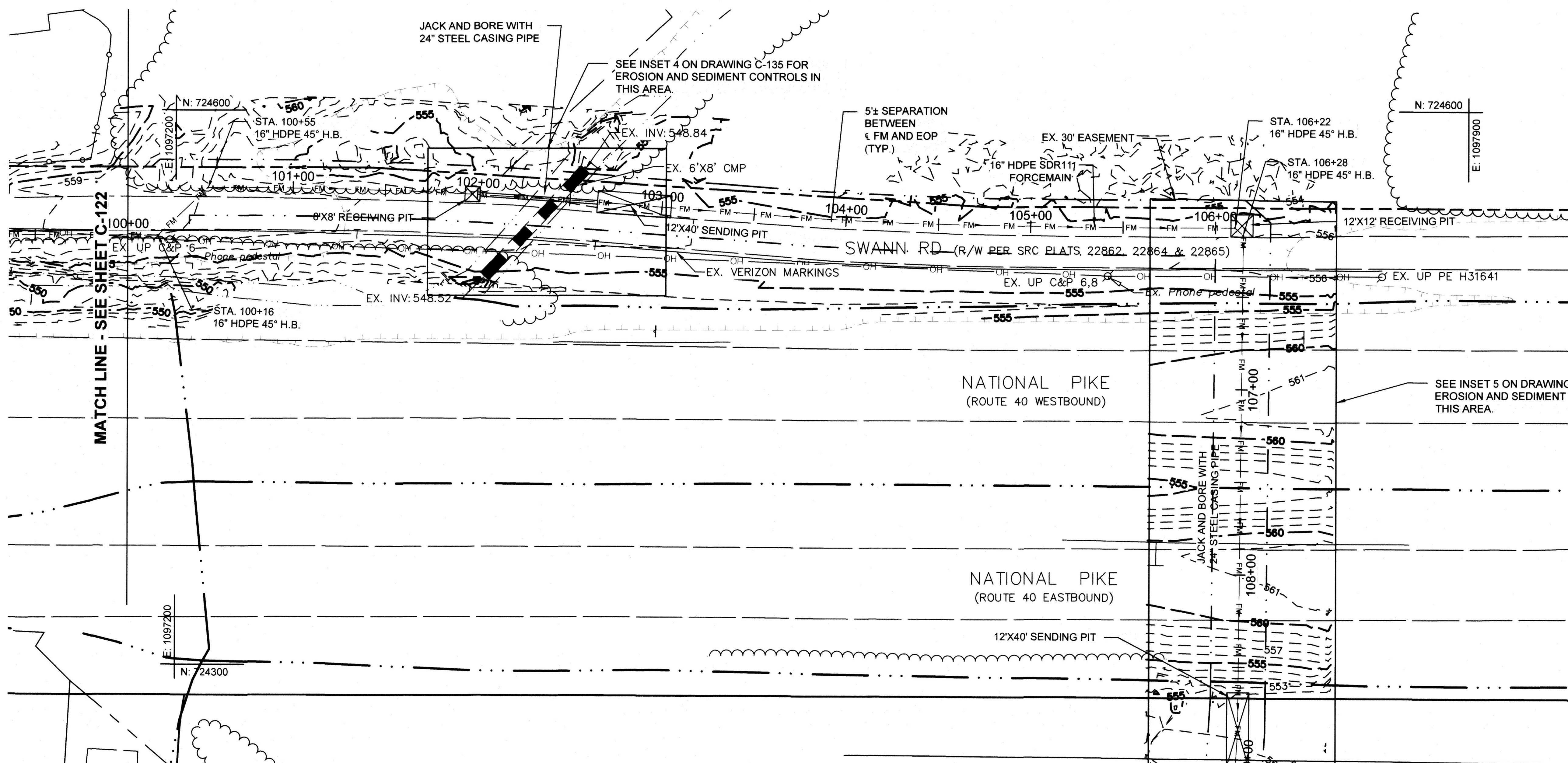
NEW REGIONAL PROPOSED FORCEMAIN ROUTING STA. 86+00 TO 100+00

EA Engineering, Science, and Technology, Inc., PBC
Hunt Valley Center
225 Schilling Circle, Suite 400
Hunt Valley, Maryland 21031
(410) 584-7000

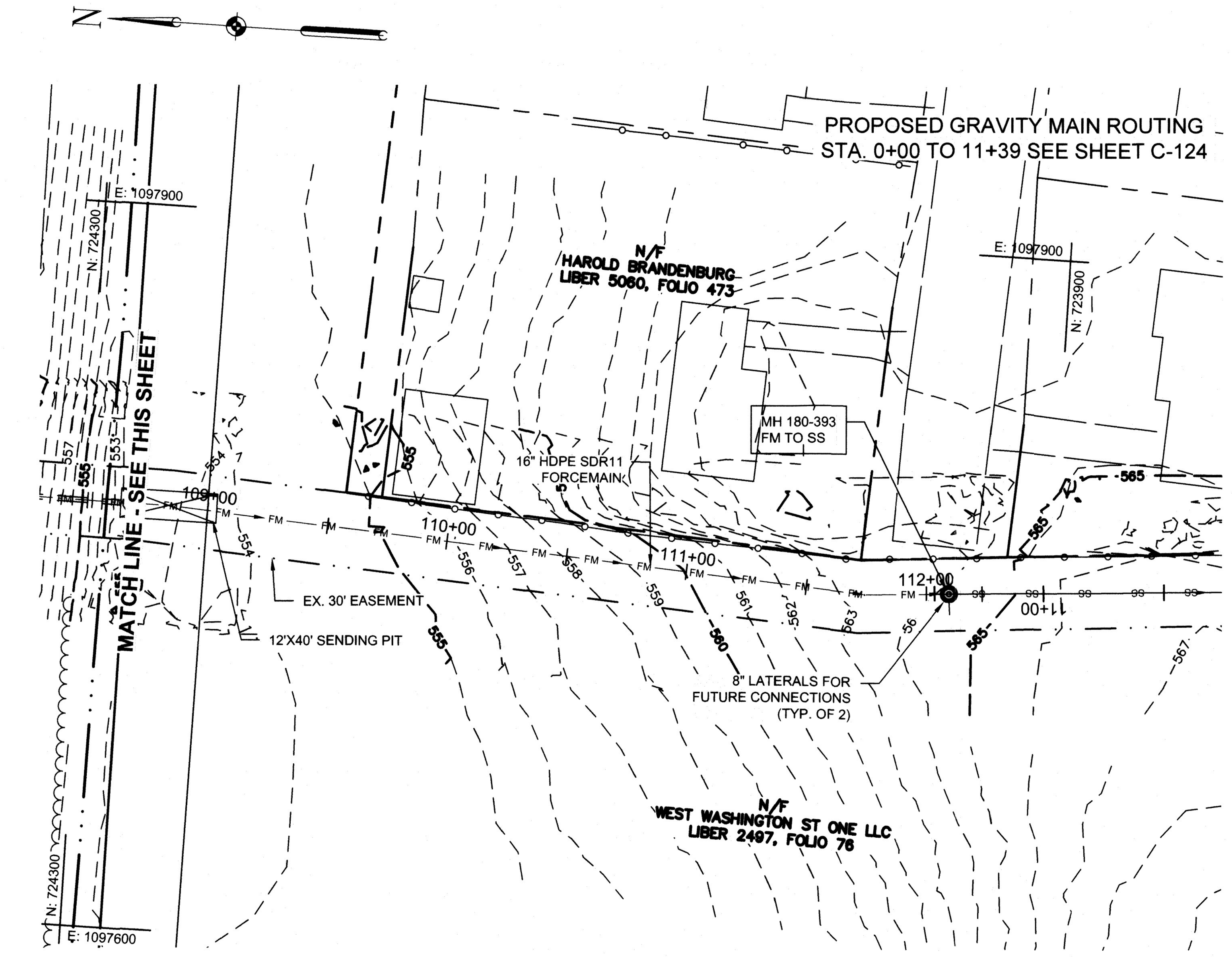
DATE: APRIL 2022
PROJECT NUMBER: 1556701

C-122
SHEET: 25 OF 76

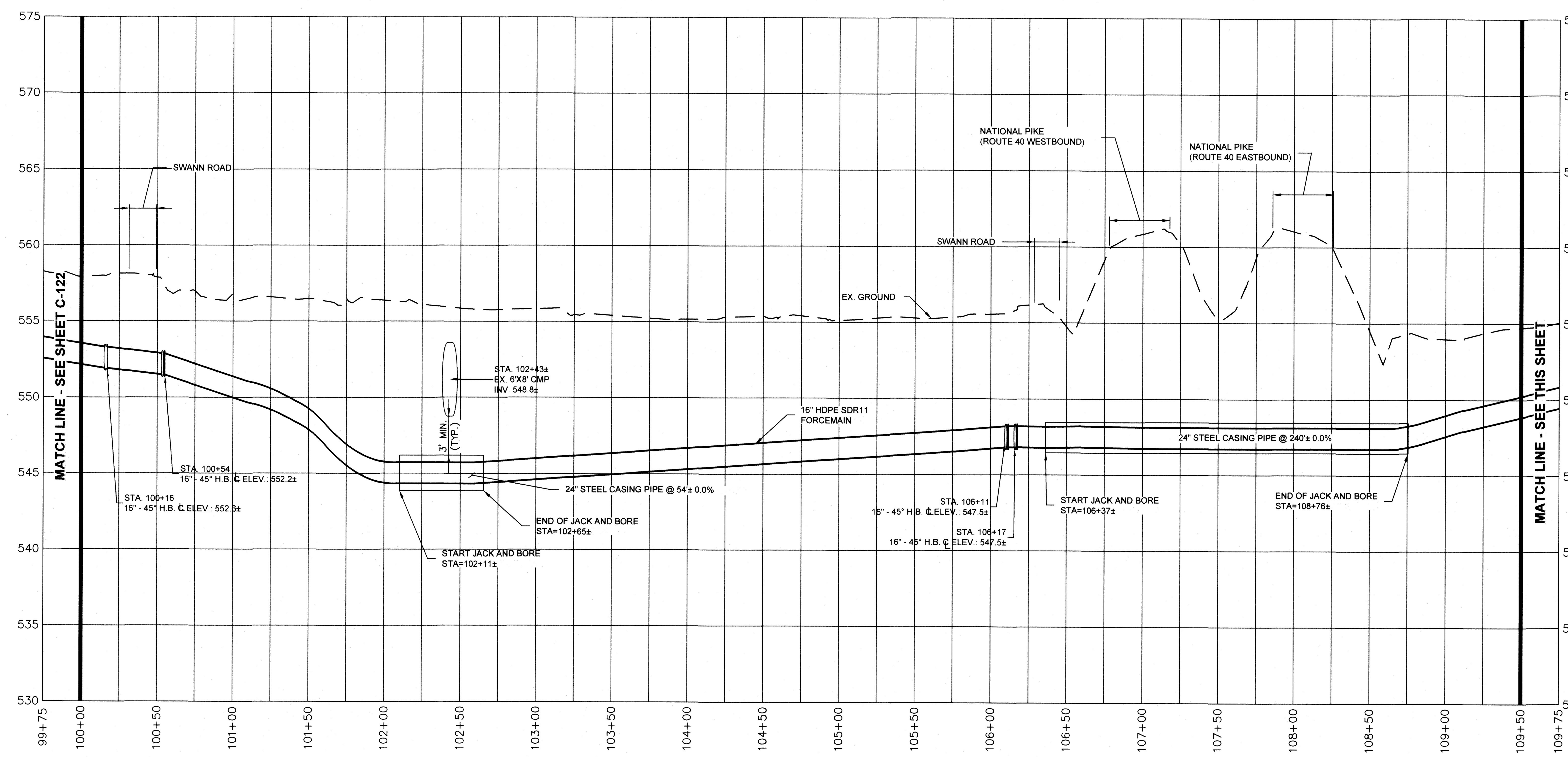
SP-21-025 / SWCP-21-020



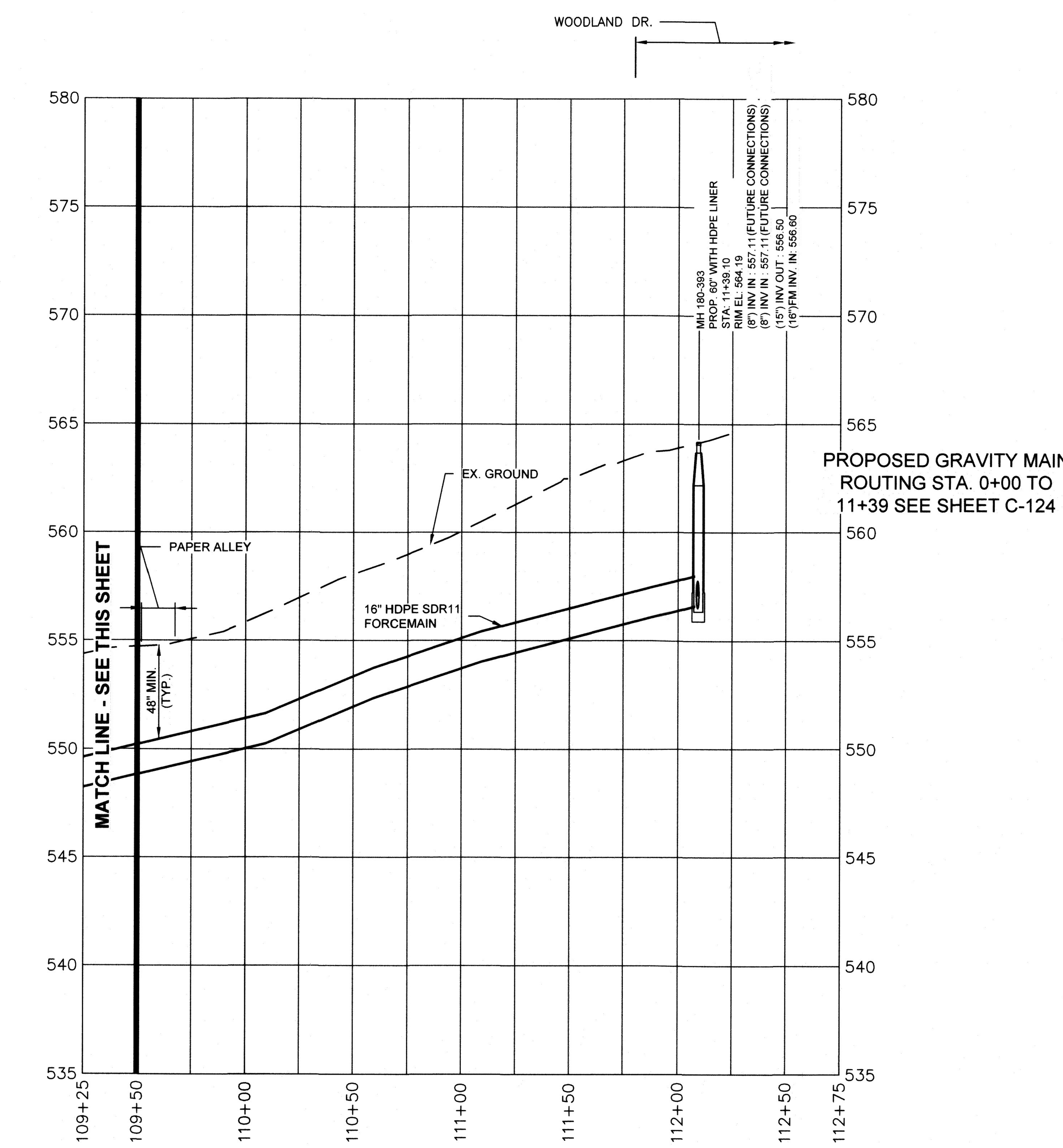
PROPOSED FORCEMAIN ROUTING - STA. 100+00 TO 109+00
SCALE: 1" = 50'



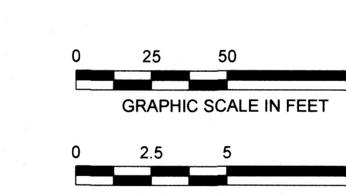
PROPOSED FORCEMAIN ROUTING- STA. 109+00 TO 112+50
SCALE: 1" = 50'



PROPOSED FORCEMAIN PROFILE- STA. 100+00 TO 109+00
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



PROPOSED FORCEMAIN PROFILE- STA. 109+00 TO 112+50
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGN INFORMATION
DESIGNED BY: RCI/SMD
DRAWN BY: SMB/CAG/JRG
CHECKED BY: SMD
PROJECT MANAGER: RCI

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 15453 EXPIRATION DATE: 7/02/2023

SEAL

WASHINGTON COUNTY DEPARTMENT OF ENGINEERING SERVICES
16232 ELLIOTT PARKWAY
WILLIAMSPORT, MD 21795
WASHINGTON COUNTY, MARYLAND

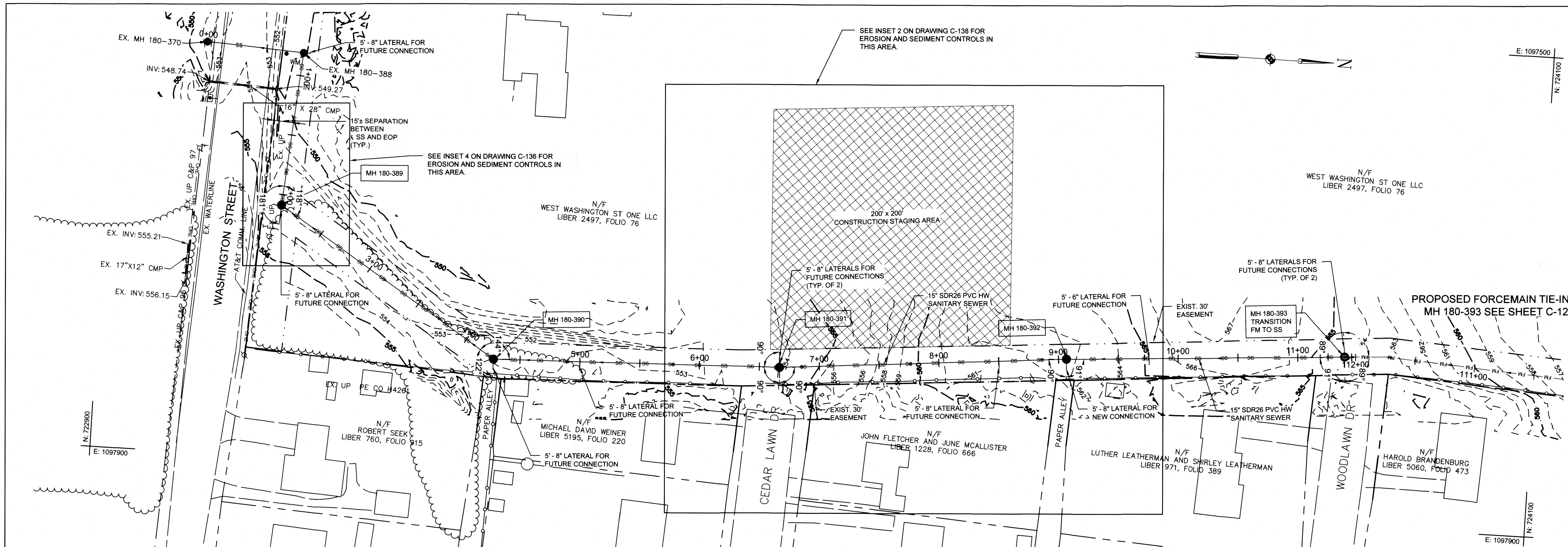
NEW REGIONAL PROPOSED FORCEMAIN ROUTING STA. 100+00 TO 112+50

EA Engineering, Science, and Technology, Inc., PBC
Hunt Valley Center
225 Schilling Circle, Suite 400
Hunt Valley, Maryland 21031
(410) 584-7000

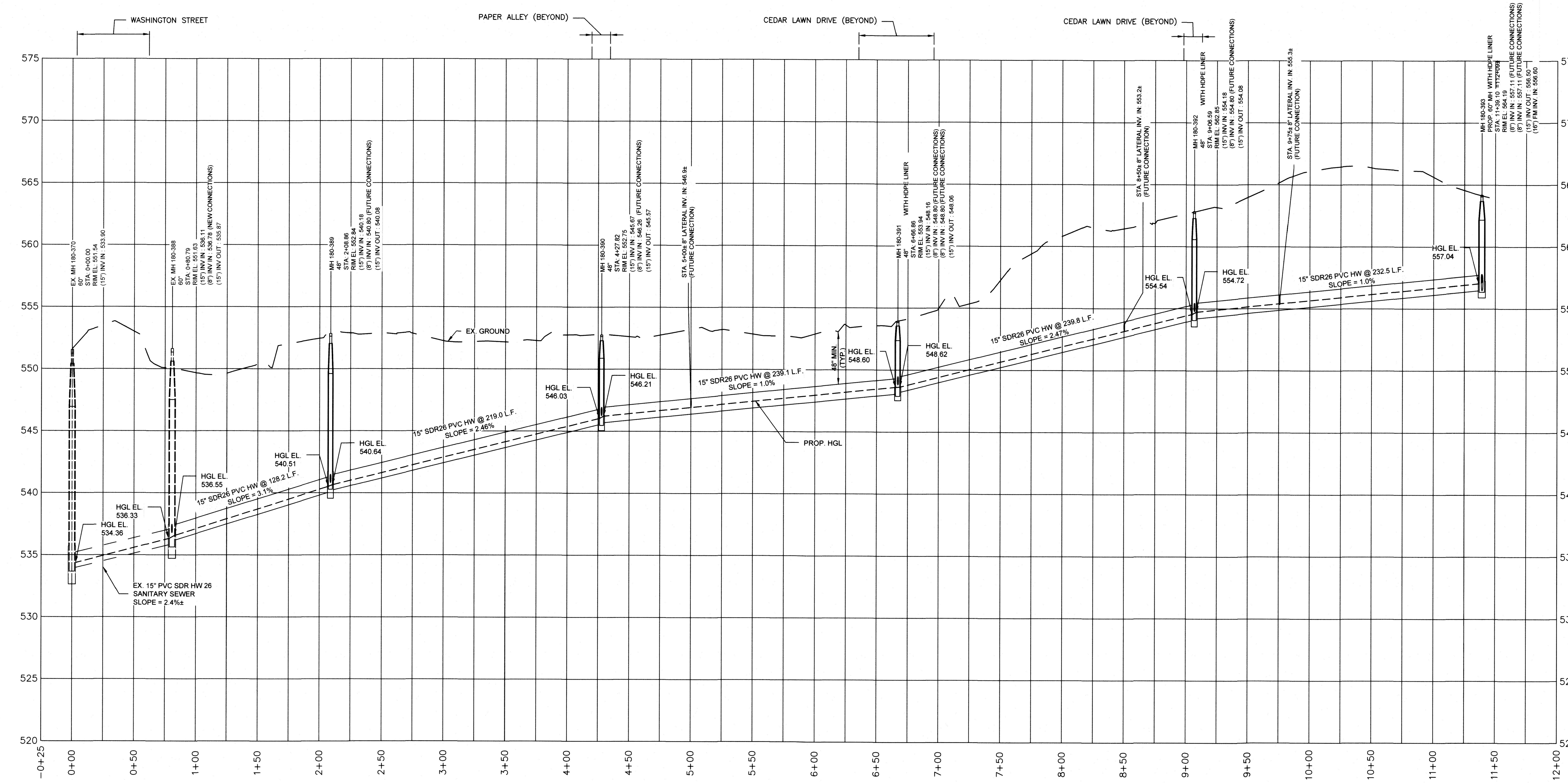
DATE: APRIL 2022
PROJECT NUMBER: 1556701

C-123
SHEET: 26 OF 76

SP-21-025 / SWCP-21-020



PROPOSED GRAVITY MAIN ROUTING - STA. 0+00 TO 11+39
SCALE: 1" = 50'



PROPOSED GRAVITY PROFILE - STA. 0+00 TO 11+39
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

NOTE:

1. ELEVATION OF GRAVITY SEWER INVERT SHALL BE MINIMUM 0.1 FT ABOVE ELEVATION OF FORCEMAIN TOP OF PIPE.
2. LATERALS FOR FUTURE CONNECTION SHOWN THIS SHEET SHALL BE 5 FT STUBS OF SIZE INDICATED WITH END CAP INSTALLED.

0 25 50 100
GRAPHIC SCALE IN FEET

0 2.5 5 10
GRAPHIC SCALE IN FEET

REVISIONS

NO.	DATE	BY	DESCRIPTION

DESIGN INFORMATION

DESIGNED BY:	RCI/SMD
DRAWN BY:	SMB/CAG/JRG
CHECKED BY:	SMD
PROJECT MANAGER:	RCI

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 15453 EXPIRATION DATE: 7/02/2023

SEAL

STATE OF MARYLAND PROFESSIONAL ENGINEER

WASHINGTON COUNTY DEPARTMENT OF ENGINEERING SERVICES
16232 ELLIOTT PARKWAY
WILLIAMSPORT, MD 21795
WASHINGTON COUNTY, MARYLAND

NEW REGIONAL PROPOSED GRAVITY MAIN ROUTING STA. 0+00 TO 11+39

EA Engineering, Science, and Technology, Inc., PBC
Hunt Valley Center
225 Schilling Circle, Suite 400
Hunt Valley, Maryland 21031
(410) 584-7000

DATE: APRIL 2022

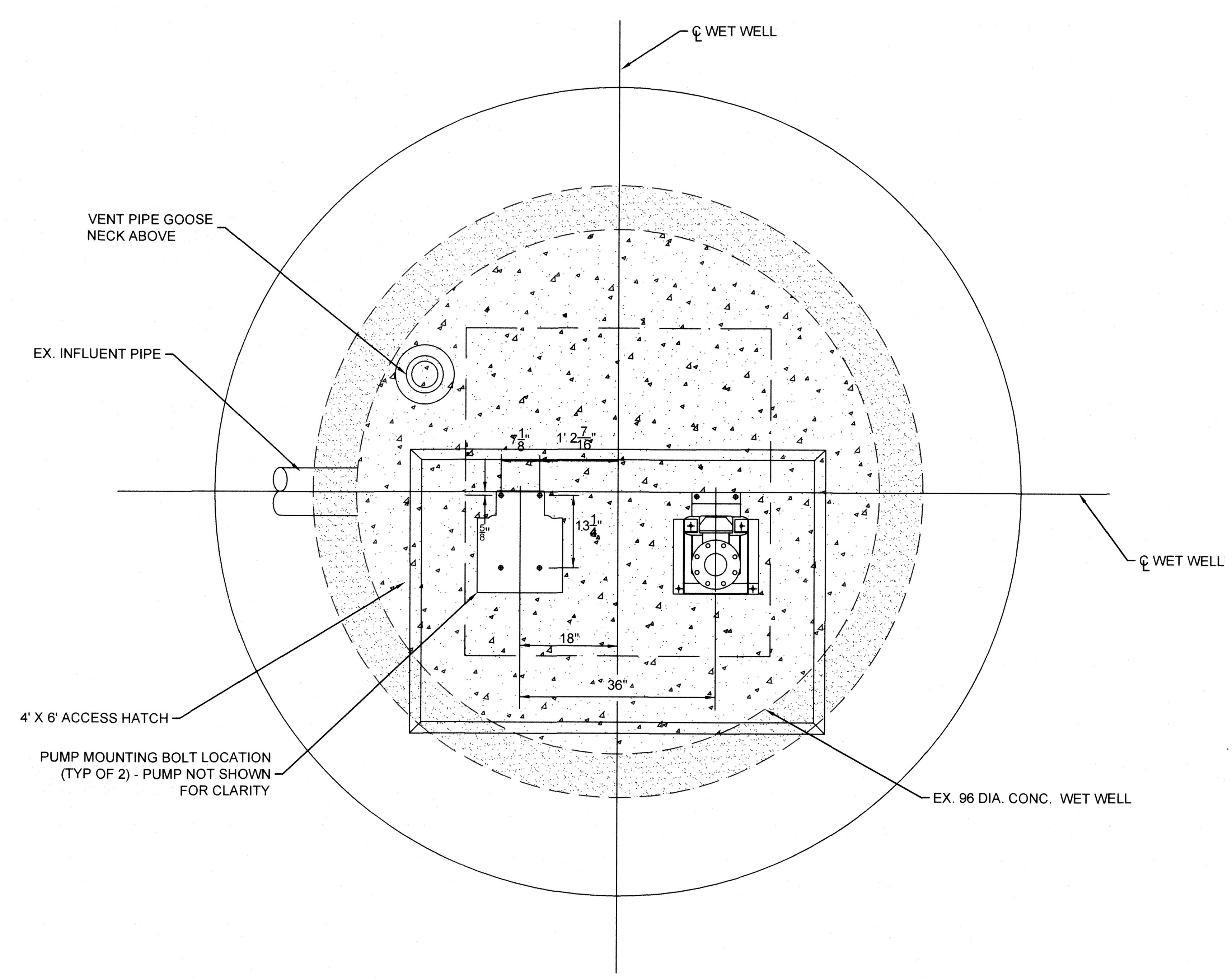
PROJECT NUMBER: 1556701

C-124

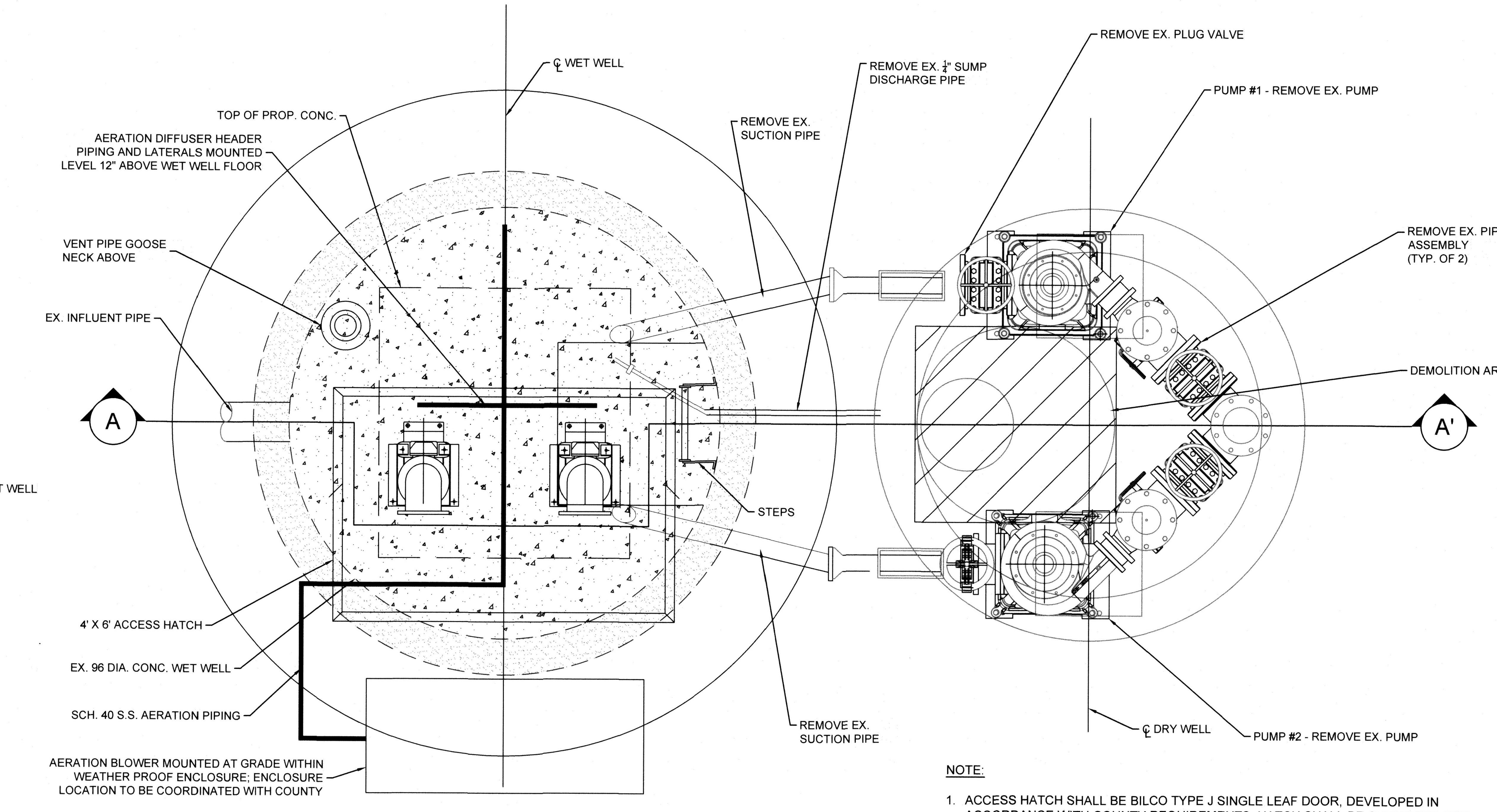
SHEET: 27 OF 76

SP-21-025 / SWCP-21-020

FILE PATH: \\LOVETONCADD\CADPROJECTS\1556701 - WASHINGTON CO. PLAN & PROFILE.DWG [C-124] PERRY, JEFF 4/26/2022 2:38 PM



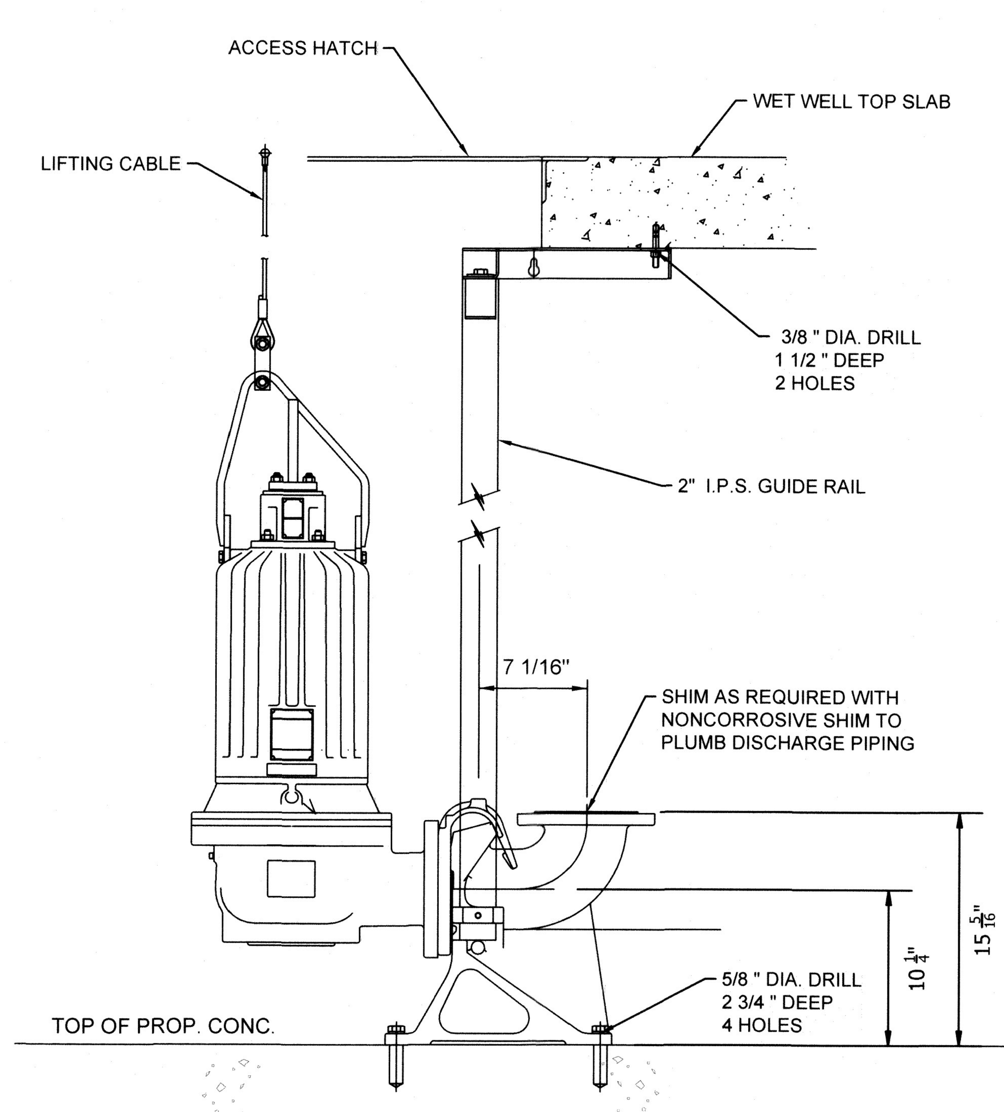
DUPLEX PUMP AND BASE PLATE ANCHOR LOCATIONS
NOT TO SCALE



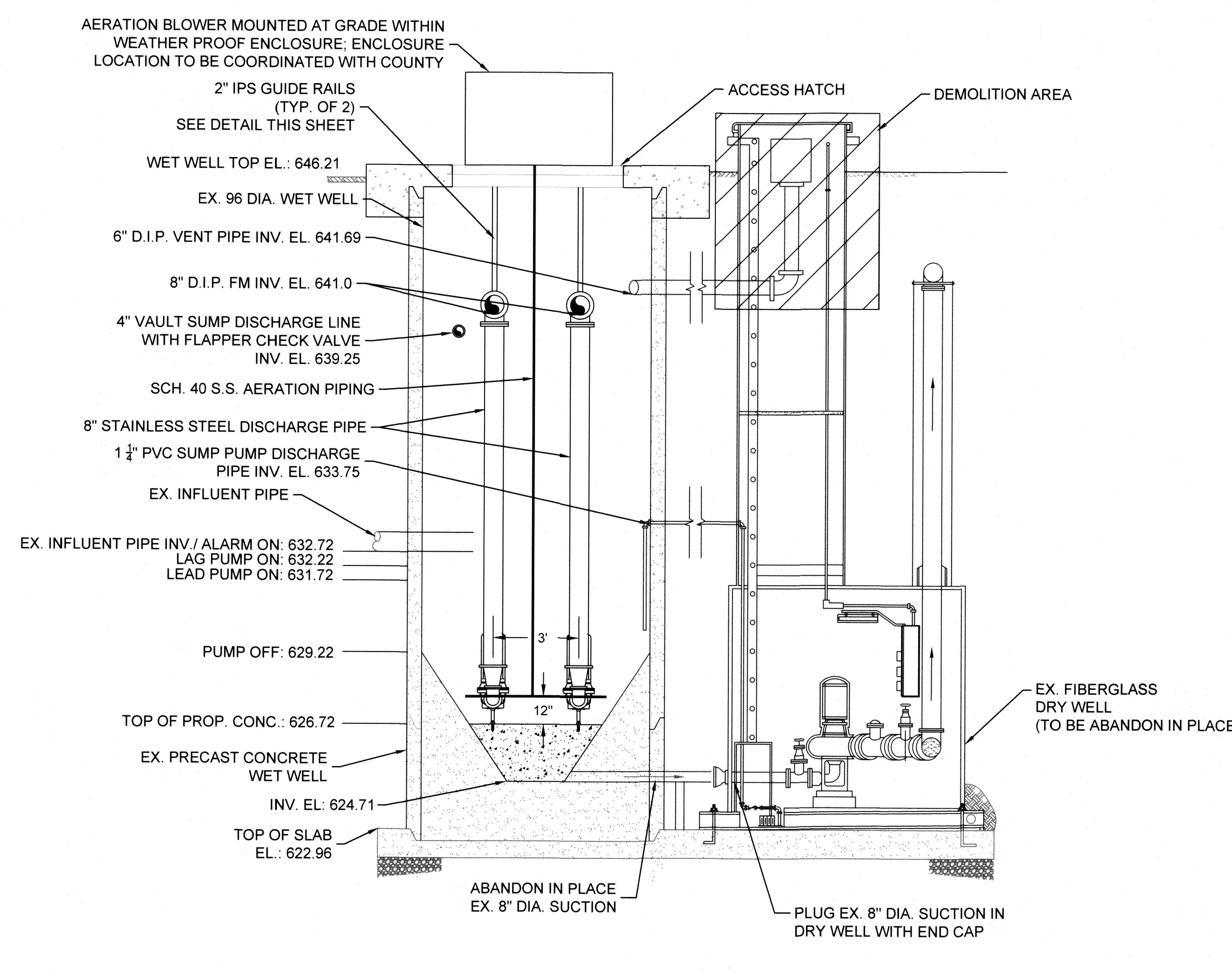
NOTE:

1. ACCESS HATCH SHALL BE BILCO TYPE J SINGLE LEAF DOOR, DEVELOPED IN ACCORDANCE WITH COUNTY REQUIREMENTS. HATCH SHALL BE SUBMITTED FOR COUNTY REVIEW AND APPROVAL PRIOR TO INSTALLATION.

PUMP STATION AND WET WELL PLAN
NOT TO SCALE



PUMP SECTION
NOT TO SCALE



SECTION A-A
NOT TO SCALE

NOTES:

1. DIMENSIONS AND ELEVATIONS OF EXISTING EQUIPMENT AND STRUCTURES BASED ON FARM LANE PUMP STATION RECORD DRAWINGS BY GILBERT ASSOCIATES, INC. SHEET DD-601-200 DATED JUNE 1985. DRAWING REFERENCED IS AN AVAILABLE RECORD DRAWING AND MAY NOT DEPICT AS-BUILT CONDITIONS.
2. EXISTING DRY WELL AND DOWNSTREAM PIPING TO BE ABANDONED IN PLACE. SEE STRUCTURAL DRAWING S-101 FOR DETAILS ON STRUCTURE DEMOLITION AND ABANDONMENT. SEE DRAWINGS E-105 AND E-106 FOR ELECTRICAL DEMOLITION.
3. EXISTING WET WELL STRUCTURE SHALL REMAIN, UNLESS OTHERWISE NOTED. SEE STRUCTURAL DRAWING S-102 AND HVAC UPGRADES DRAWING H-101 FOR PROPOSED RETROFIT TO EXISTING WET WELL.
4. FUNCTION OF EXISTING SMITH AND LOVELESS 4B2A PUMP ASSEMBLY LOCATED WITHIN EXISTING DRY WELL TO BE REPLACED WITH PROPOSED DUPLEX 50 HP SUBMERSIBLE GORMAN RUPP SF4C-X PUMPS MOUNTED IN EXISTING WET WELL.
5. PUMP GUIDE RAILS SHALL BE SECURED TO WET WELL TOP SLAB IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.
6. STAINLESS STEEL DISCHARGE PIPE WITHIN WET WELL SHALL BE SUPPORTED AND BRACED IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.
7. IN ACCORDANCE WITH NFPA 820 STANDARD FOR FIRE PROTECTION IN WASTEWATER TREATMENT AND COLLECTION FACILITIES, WET WELL IS CONSIDERED AN NEC AREA CLASSIFICATION CLASS I DIVISION 1.
8. FOR SITE ELECTRICAL UPGRADES, SEE ELECTRICAL SITE PLAN ON DRAWING E-101, AND ELECTRICAL NEW WORK ON DRAWING E-107 AND E-108.
9. SUMP DISCHARGE LINE TO BE TURNED DOWN IN WET WELL WITH FLAPPER CHECK VALVE. SEE SPECIFICATION 200-001 SANITARY SEWER MATERIALS FOR VALVE REQUIREMENTS.
10. PROVIDE A WET WELL AERATION SYSTEM WITH AIR DISCHARGE PIPING MOUNTED WITHIN THE WET WELL, INCLUDING CONTROL PANEL AND FIBERGLASS ENCLOSURE. SEE SPECIFICATION 200-001 SANITARY SEWER MATERIALS FOR SYSTEM REQUIREMENTS. AERATION SYSTEM SHALL BE A COMPLETE PACKAGE SYSTEM PROVIDED FOR ENGINEER REVIEW AND APPROVAL PRIOR TO INSTALLATION. AERATION PIPING LAYOUT SHOWN INCLUDED FOR REFERENCE ONLY. PIPING LAYOUT SHALL BE INCLUDED AS PART OF PRODUCT SUBMITTAL.
11. MOUNTING AND SUPPORT HARDWARE FOR ALL COMPONENTS WITHIN THE WET WELL SHALL BE STAINLESS STEEL.

FARM LANE PUMP STATION
14135 PENNSYLVANIA AVENUE,
HAGERSTOWN, MD 21742

REVISIONS

NO.	DATE	BY	DESCRIPTION

DESIGN INFORMATION
DESIGNED BY: RCI/SMD
DRAWN BY: SMB/CAG/JRG
CHECKED BY: SMD
PROJECT MANAGER: RCI

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 15453 EXPIRATION DATE: 7/02/2023

SEAL

WASHINGTON COUNTY DEPARTMENT OF ENGINEERING SERVICES
16232 ELLIOTT PARKWAY
WILLIAMSPORT, MD 21795
WASHINGTON COUNTY, MARYLAND

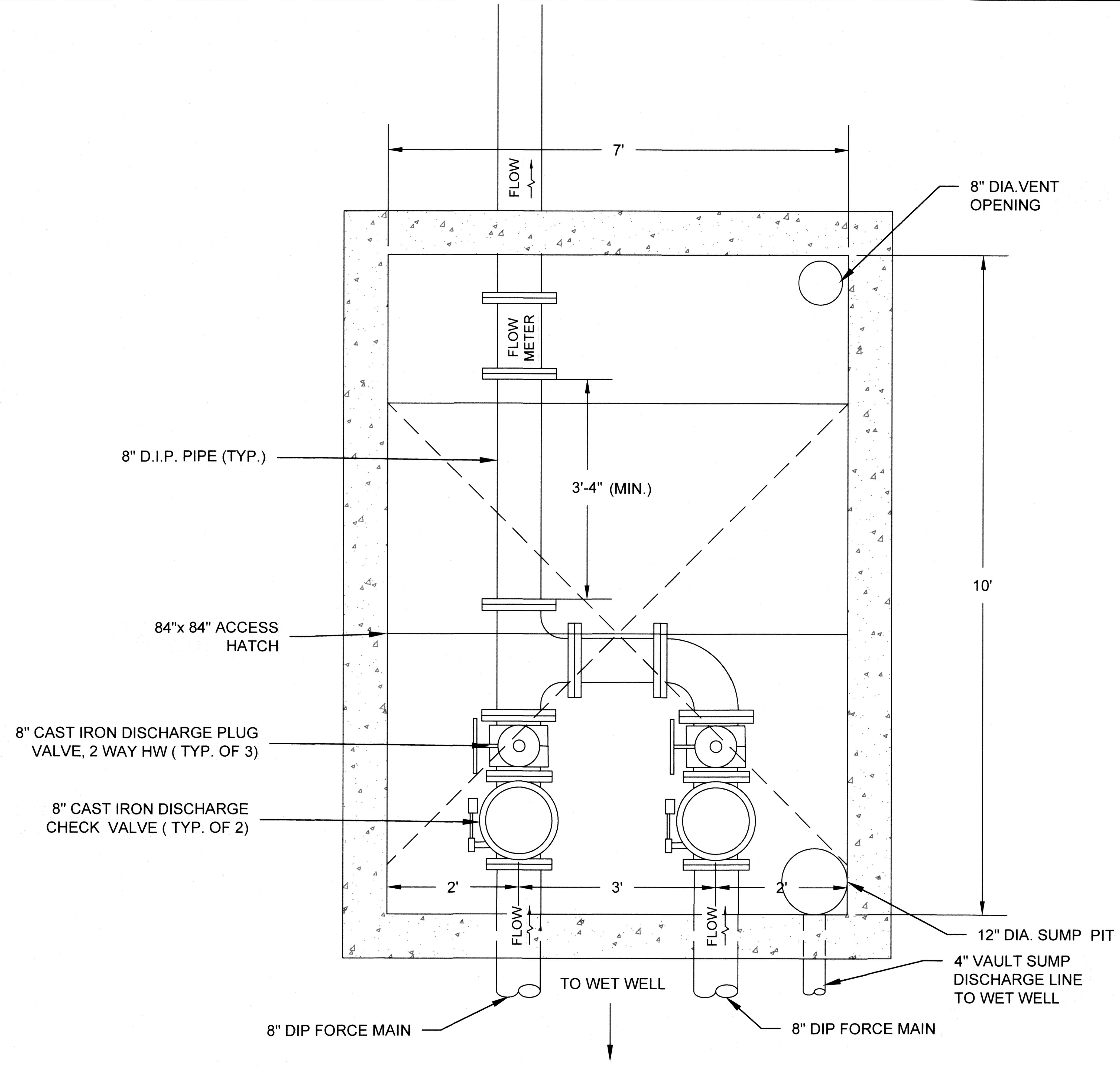
FARM LANE PUMP STATION DETAILS I

EA Engineering, Science, and Technology, Inc., PBC
Hunt Valley Center
225 Schilling Circle, Suite 400
Hunt Valley, Maryland 21031
(410) 584-7000

DATE: APRIL 2022
PROJECT NUMBER: 1556701

C-125
SHEET: 28 OF 76

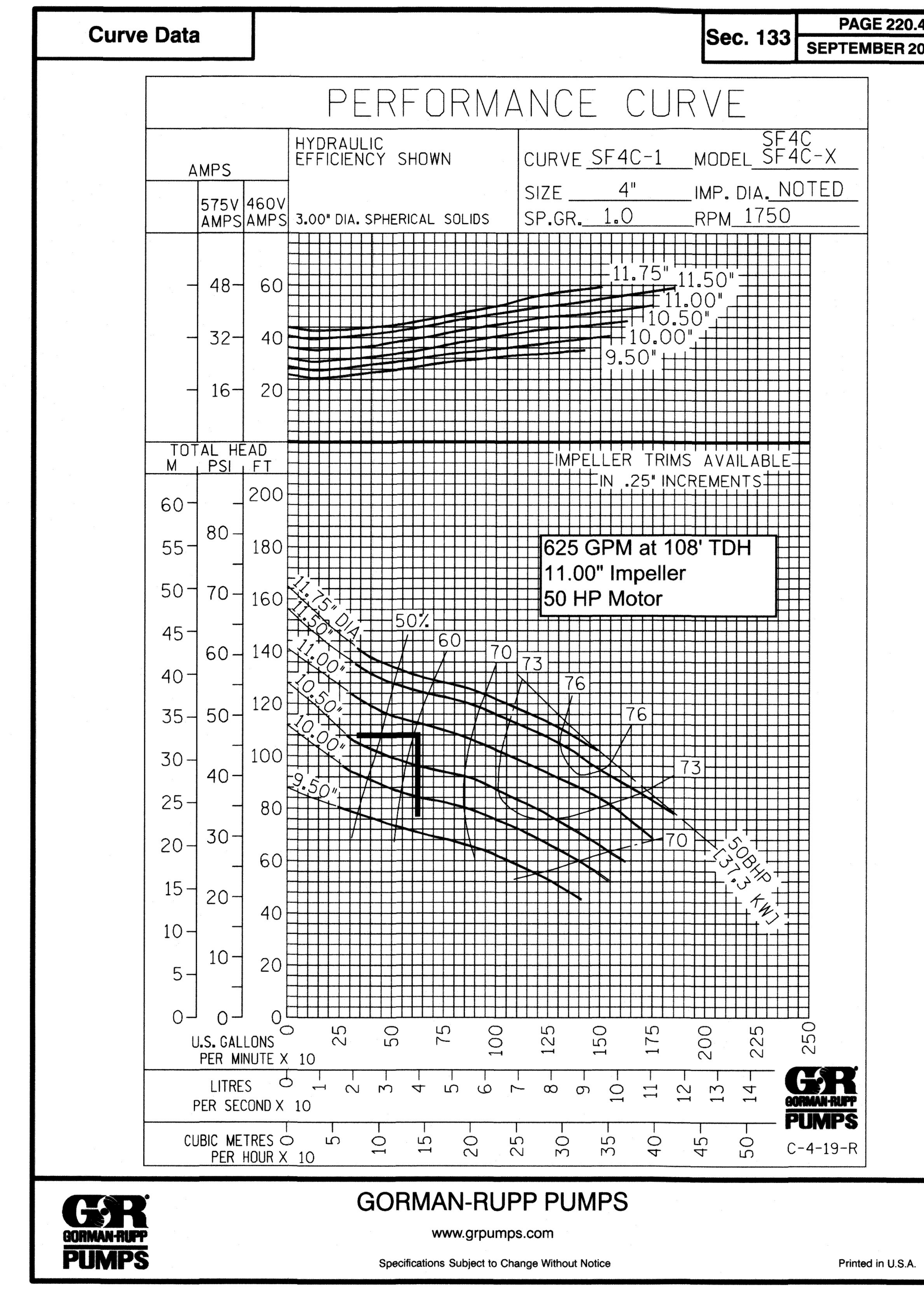
SP-21-025 / SWCP-21-020



VALVE VAULT
NOT TO SCALE

VAULT NOTES:

1. IN ACCORDANCE WITH NFPA 820 STANDARD FOR FIRE PROTECTION IN WASTEWATER TREATMENT AND COLLECTION FACILITIES, VAULT IS CONSIDERED AN NEC AREA CLASSIFICATION CLASS I DIVISION 2.
2. ACCESS HATCH SHALL BE BILCO TYPE J DOUBLE LEAF DOOR, DEVELOPED IN ACCORDANCE WITH COUNTY REQUIREMENTS. HATCH SHALL BE SUBMITTED FOR COUNTY REVIEW AND APPROVAL PRIOR TO INSTALLATION.
3. COORDINATE STRUCTURE OPENINGS WITH PIPE AND FITTINGS SHOWN. FOR VAULT STRUCTURAL PLANS, SECTIONS AND DETAILS, SEE DRAWING S-103.
4. COORDINATE ELECTRICAL CONNECTIONS FOR EQUIPMENT SHOWN. FOR VAULT ELECTRICAL PLANS AND EQUIPMENT WIRING, SEE DRAWINGS E-101 AND E-108.
5. PROVIDE MAGNETIC FLOWMETER, INCLUDING CONTROL PANEL. FLOWMETER TO BE MOUNTED INLINE WITH PIPING AS SHOWN FOR ACCESS WITHIN VAULT, WITH LAY LENGTH MEETING MANUFACTURER'S RECOMMENDATIONS. FLOWMETER SHALL BE PROVIDED FOR ENGINEER REVIEW AND APPROVAL PRIOR TO INSTALLATION.



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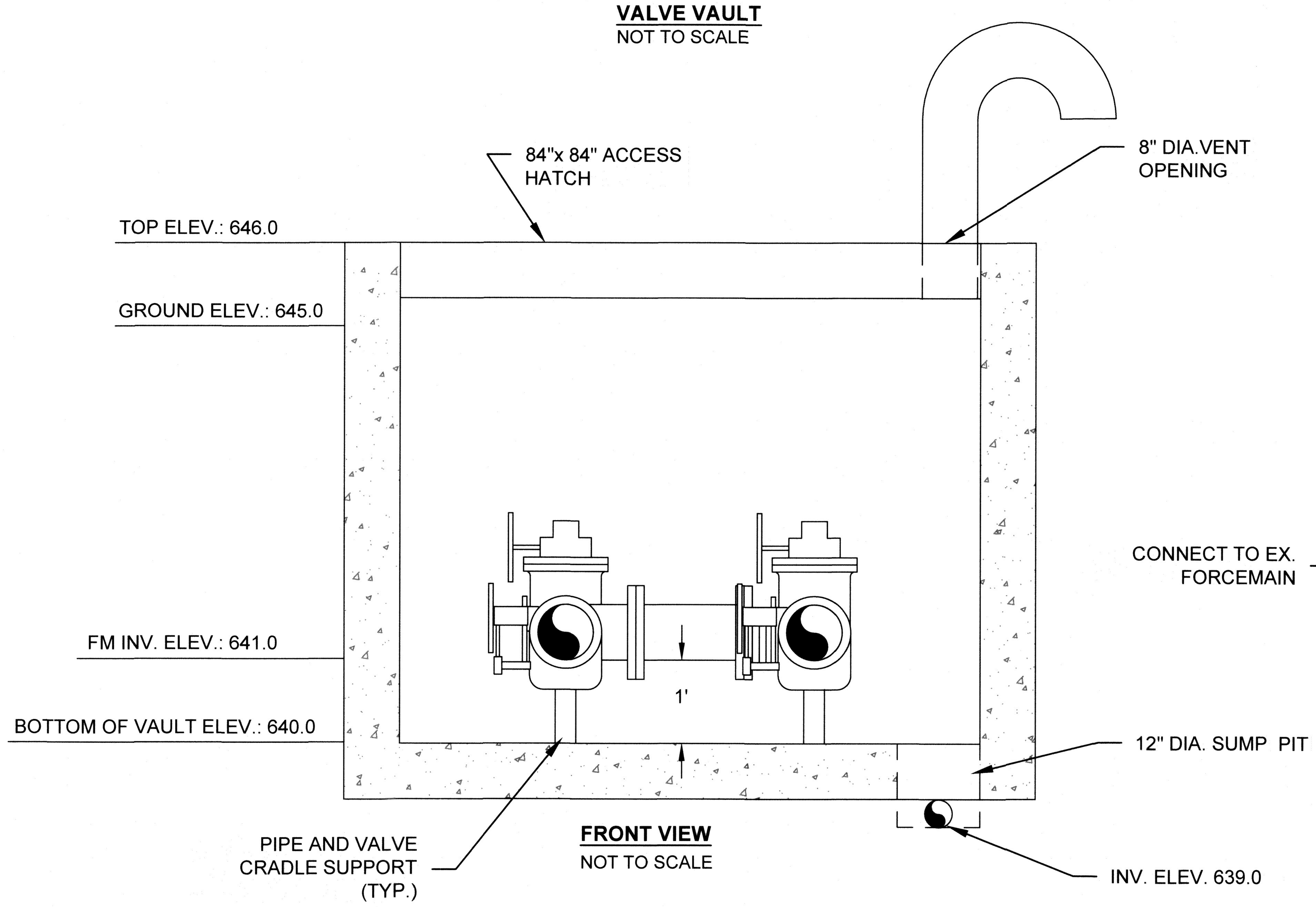
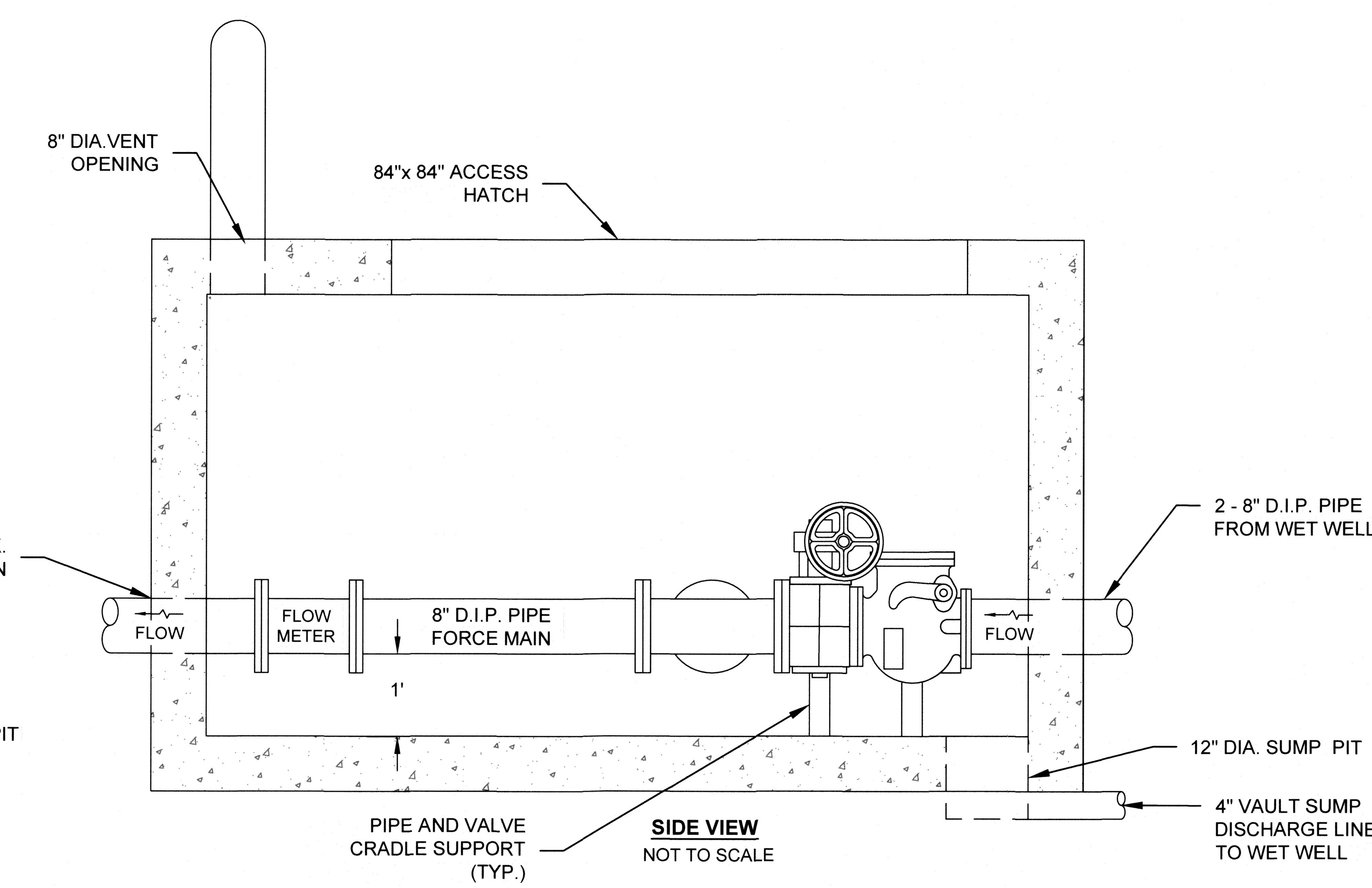
PROPOSED PUMP CURVE
NOT TO SCALE



FRONT VIEW
NOT TO SCALE



SIDE VIEW
NOT TO SCALE

FARM LANE PUMP STATION
14135 PENNSYLVANIA AVENUE,
HAGERSTOWN, MD 21742

REVISIONS
NO. | DATE | BY | DESCRIPTION

DESIGN INFORMATION
DESIGNED BY: RCI/SMD
DRAWN BY: SMB/CAG/JRG
CHECKED BY: SMD
PROJECT MANAGER: RCI

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 15453 EXPIRATION DATE: 7/02/2023

SEAL

WASHINGTON COUNTY DEPARTMENT OF ENGINEERING SERVICES
16232 ELLIOTT PARKWAY
WILLIAMSPORT, MD 21795
WASHINGTON COUNTY, MARYLAND

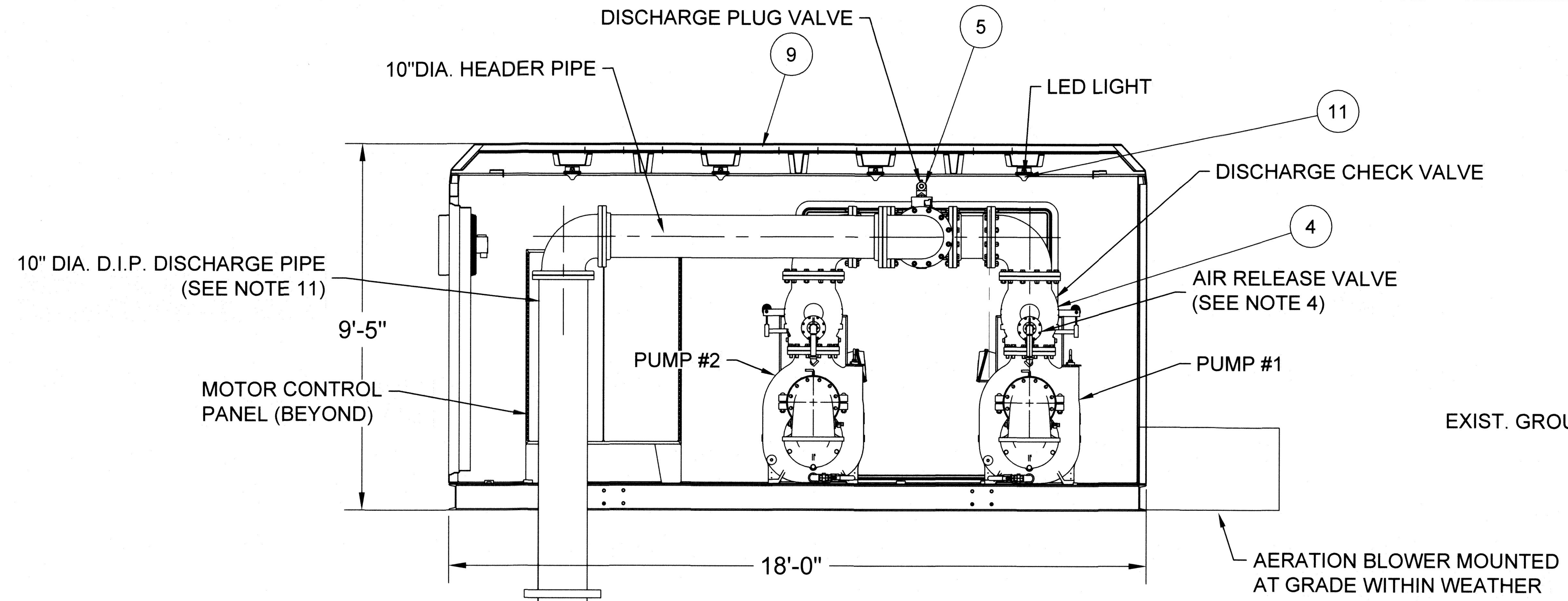
FARM LANE PUMP STATION DETAILS II

EA Engineering, Science, and Technology, Inc., PBC
Hunt Valley Center
225 Schilling Circle, Suite 400
Hunt Valley, Maryland 21031
(410) 584-7000

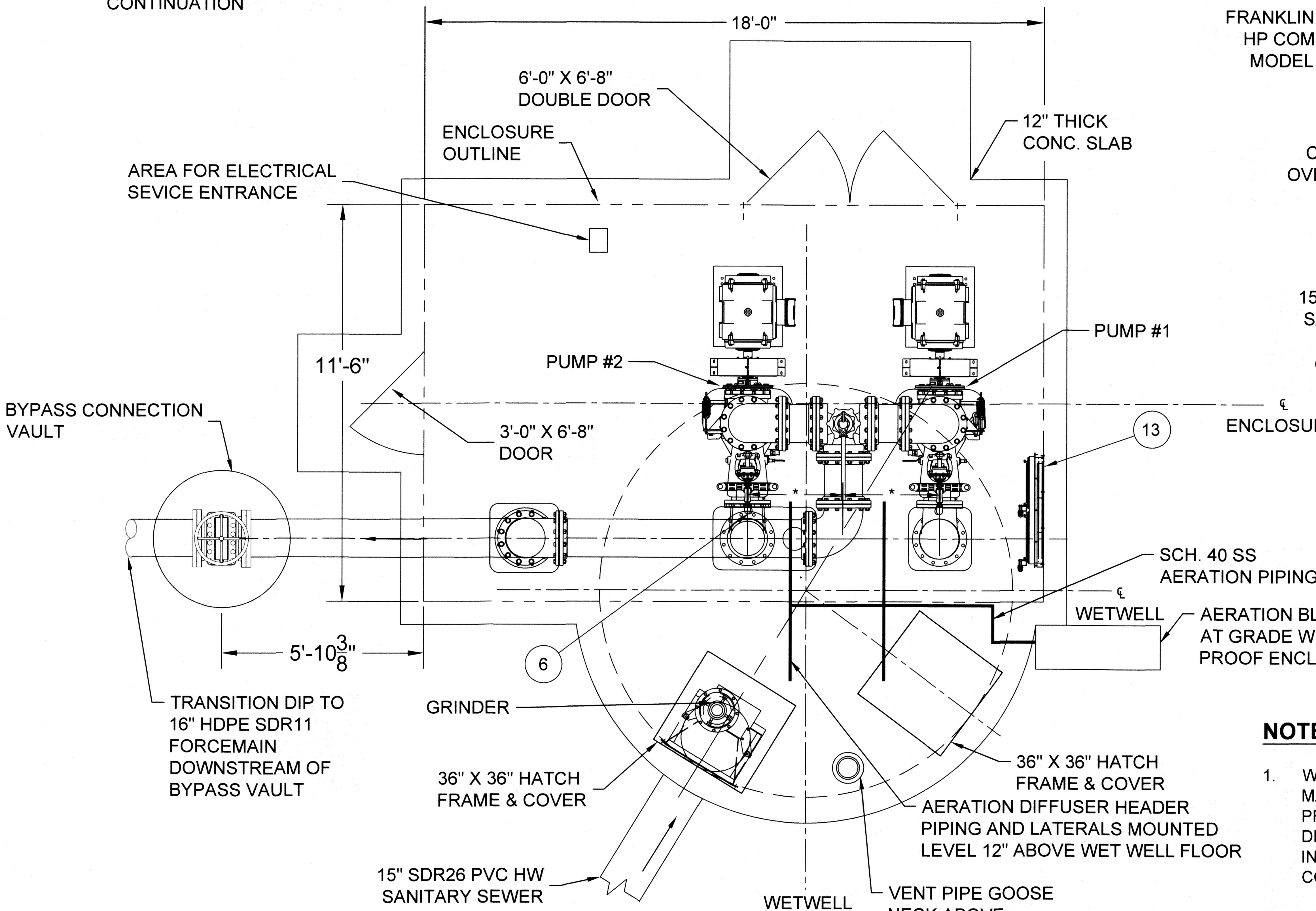
DATE: APRIL 2022
PROJECT NUMBER: 1556701

C-126
SHEET: 28 OF 76

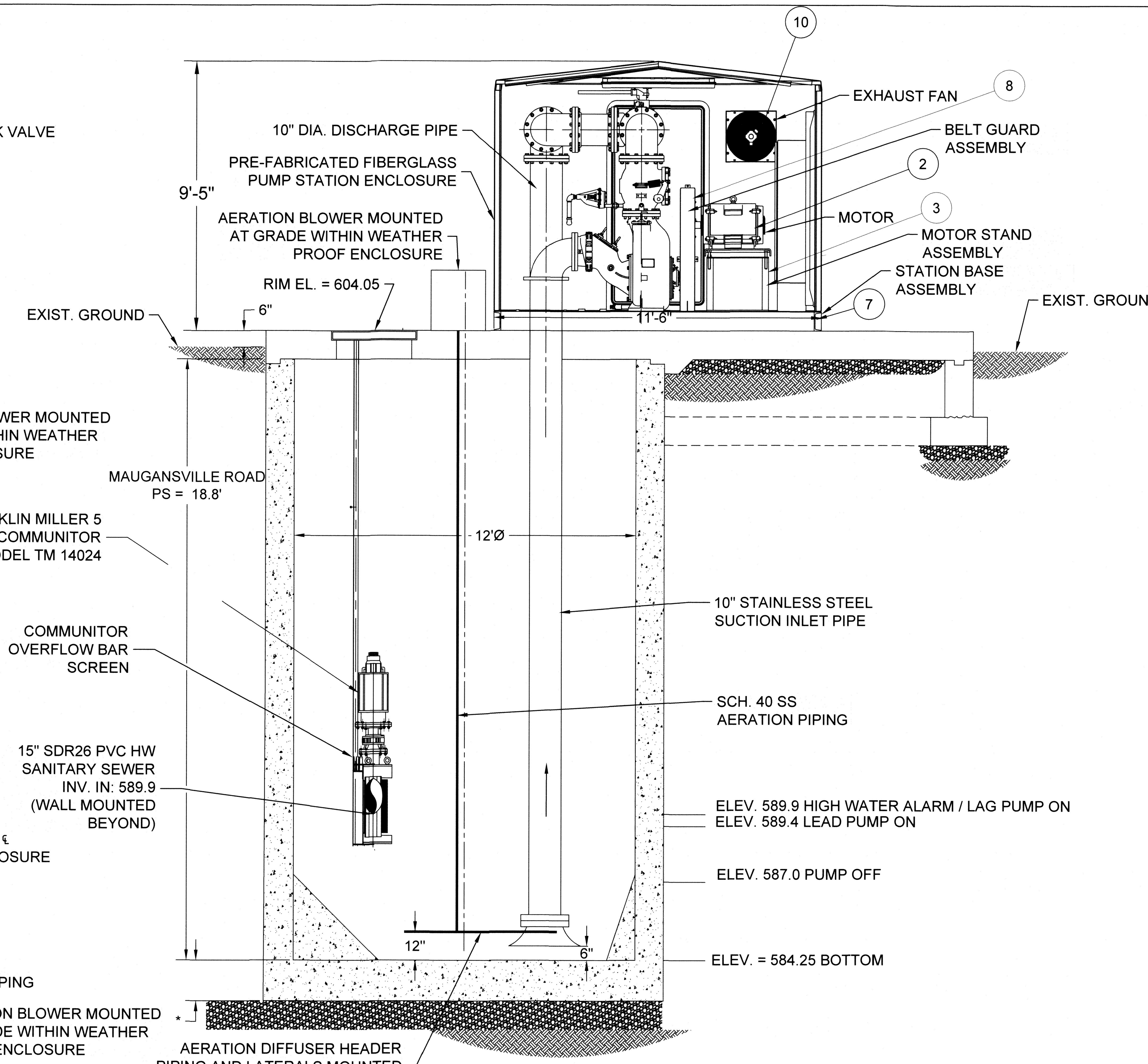
SP-21-025 / SWCP-21-020



ENCLOSURE SECTION
NOT TO SCALE



OPERATING FLOOR PLAN
NOT TO SCALE



WET WELL SECTION
NOT TO SCALE

PARTS TABLE SCHEDULE

ITEM	DESCRIPTION	MATERIAL & SIZE	
1	PUMP	CAST IRON	T10-B
2	MOTOR	CAST IRON	
3	MOTOR STAND ASSEMBLY	STEEL	
4	DISCHARGE CHECK VALVE	CAST IRON	10"
5	DISCHARGE PLUG VALVE	CAST IRON	10"
6	AIR RELEASE VALVE	CAST IRON	1"
7	STATION BASE ASSEMBLY	STEEL	
8	BELT GUARD ASSEMBLY	ALUMINUM	
9	STATION ENCLOSURE ASS'Y	FRP	11'-6" X 18'
10	EXHAUST FAN	STEEL	1600 CFM
11	LED LIGHT FIXTURE	4000 LUMENS	
12	MOTOR CONTROL PANEL	STAINLESS	
13	INTAKE VENT ASEMBLY	ALUMINUM	

NOTES:

1. WET WELL STRUCTURAL DESIGN TO BE PERFORMED BY A LICENSED MARYLAND PROFESSIONAL ENGINEER, WITH SIGNED AND SEALED DESIGN PROVIDED TO ENGINEER FOR REVIEW AND APPROVAL. DESIGN TO INCLUDE DETERMINATION OF WALL THICKNESS AND BASE SLAB DEPTH (*) DEVELOPED IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
2. WET WELL SHALL BE FULLY COATED WITH HDPE LINER ON INTERIOR AND ACROSS THE FULL WIDTH OF ALL JOINTS BY THE MANUFACTURER. IN ADDITION, A PROTECTIVE COATING OF BITUMASTIC SHALL BE APPLIED TO ALL EXTERIOR WET WELL SURFACES IN CONTACT WITH EXISTING GROUND.
3. GRINDER AND GUIDE RAILS TO BE MOUNTED ON WET WELL WALL IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS. GRINDER SHALL BE INSTALLED INLINE WITH INFLUENT PIPING. GUIDE RAILS SHALL BE INSTALLED TO FACILITATE ACCESS AT GRADE THROUGH PROPOSED FRAME AND COVER.
4. AIR RELEASE VALVE TO DISCHARGE INTO WET WELL THROUGH SERVICE PENETRATION. CONTRACTOR TO CONNECT TO PROVIDED PIPING, EXTENDED INTO WET WELL AND GROUT PENETRATION OPENING.
5. CONTRACTOR TO PROVIDE FITTINGS AS NECESSARY FOR STAINLESS STEEL SUCTION INLET PIPE CONNECTION TO DUCTILE IRON PUMP SUCTION GOOSENECK FLANGES.
6. IN ACCORDANCE WITH NFPA 820 STANDARD FOR FIRE PROTECTION IN WASTEWATER TREATMENT AND COLLECTION FACILITIES, WET WELL IS CONSIDERED AN NEC AREA CLASSIFICATION CLASS I DIVISION 1.
7. COORDINATE FLOW METER INSTALLATION WITHIN BYPASS MANHOLE DOWNSTREAM OF PUMP STATION. FLOW TRANSMITTER TO BE MOUNTED WITHIN THE PUMP STATION ENCLOSURE.
8. SEE DRAWING E-102 FOR ELECTRICAL CONNECTION DETAILS.
9. SEE DRAWING S-104 FOR ENCLOSURE PAD AND WET WELL STRUCTURAL AND BACKFILL DETAILS.
10. PROVIDE A WET WELL AERATION SYSTEM WITH AIR DISCHARGE PIPING MOUNTED WITHIN THE WET WELL, INCLUDING CONTROL PANEL AND FIBERGLASS ENCLOSURE. SEE SPECIFICATION 200-001 SANITARY SEWER MATERIALS FOR SYSTEM REQUIREMENTS. AERATION SYSTEM SHALL BE A COMPLETE PACKAGE SYSTEM PROVIDED FOR ENGINEER REVIEW AND APPROVAL PRIOR TO INSTALLATION. AERATION PIPING LAYOUT SHOWN INCLUDED FOR REFERENCE ONLY. PIPING LAYOUT SHALL BE INCLUDED AS PART OF PRODUCT SUBMITTAL.
11. PROVIDE MAGNETIC FLOWMETER, INCLUDING CONTROL PANEL. FLOWMETER TO BE MOUNTED VERTICALLY INLINE WITH DISCHARGE PIPING (NOT SHOWN) WITH LAY LENGTH MEETING MANUFACTURER'S RECOMMENDATIONS. FLOWMETER SHALL BE PROVIDED FOR ENGINEER REVIEW AND APPROVAL PRIOR TO INSTALLATION.
12. MOUNTING AND SUPPORT HARDWARE FOR ALL COMPONENTS WITHIN THE WET WELL SHALL BE STAINLESS STEEL.

MAUGANSVILLE ROAD PUMP STATION
13635 MAUGANSVILLE ROAD,
HAGERSTOWN, MD 21740

REVISIONS: NO. | DATE | BY | DESCRIPTION

DESIGN INFORMATION
DESIGNED BY: RCI/SMD
DRAWN BY: SMB/CAG/JRG
CHECKED BY: SMD
PROJECT MANAGER: RCI

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SEAL

WASHINGTON COUNTY DEPARTMENT OF ENGINEERING SERVICES
16232 ELLIOTT PARKWAY
WILLIAMSPORT, MD 21795
WASHINGTON COUNTY, MARYLAND

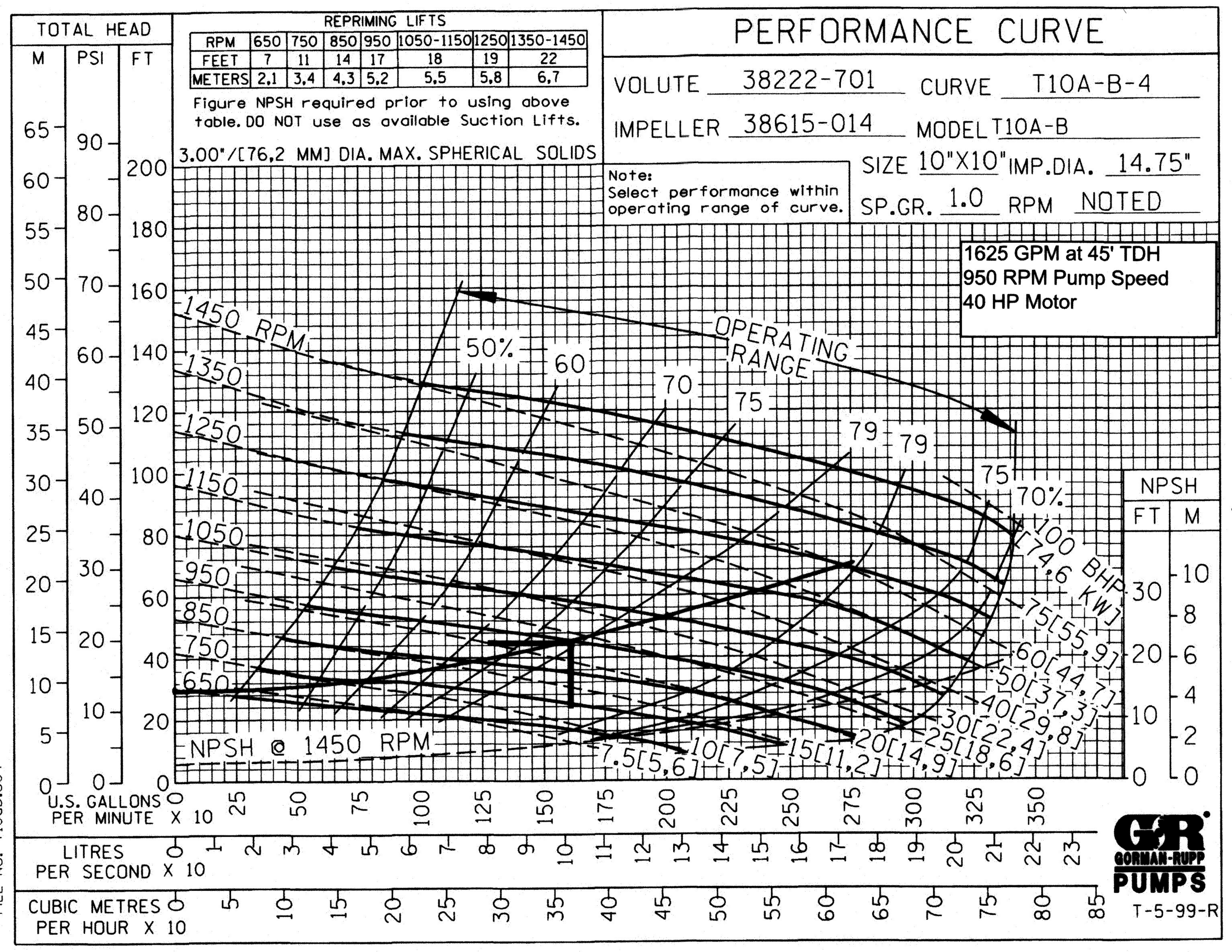
MAUGANSVILLE ROAD PUMP STATION DETAILS I

EA Engineering, Science, and Technology, Inc., PBC
Hunt Valley Center
225 Schilling Circle, Suite 400
Hunt Valley, Maryland 21031
(410) 584-7000

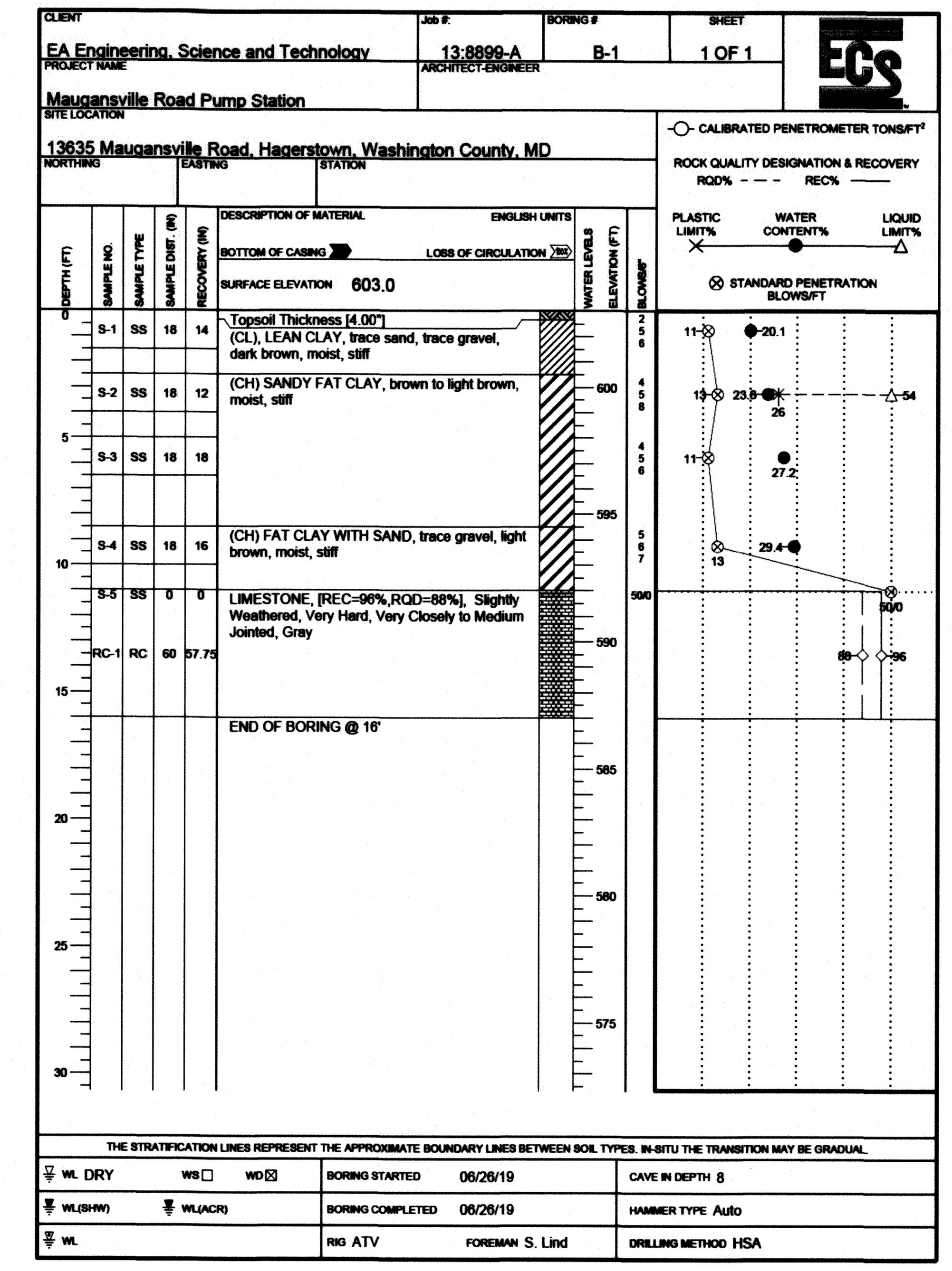
DATE: APRIL 2022
PROJECT NUMBER: 1556701

C-127

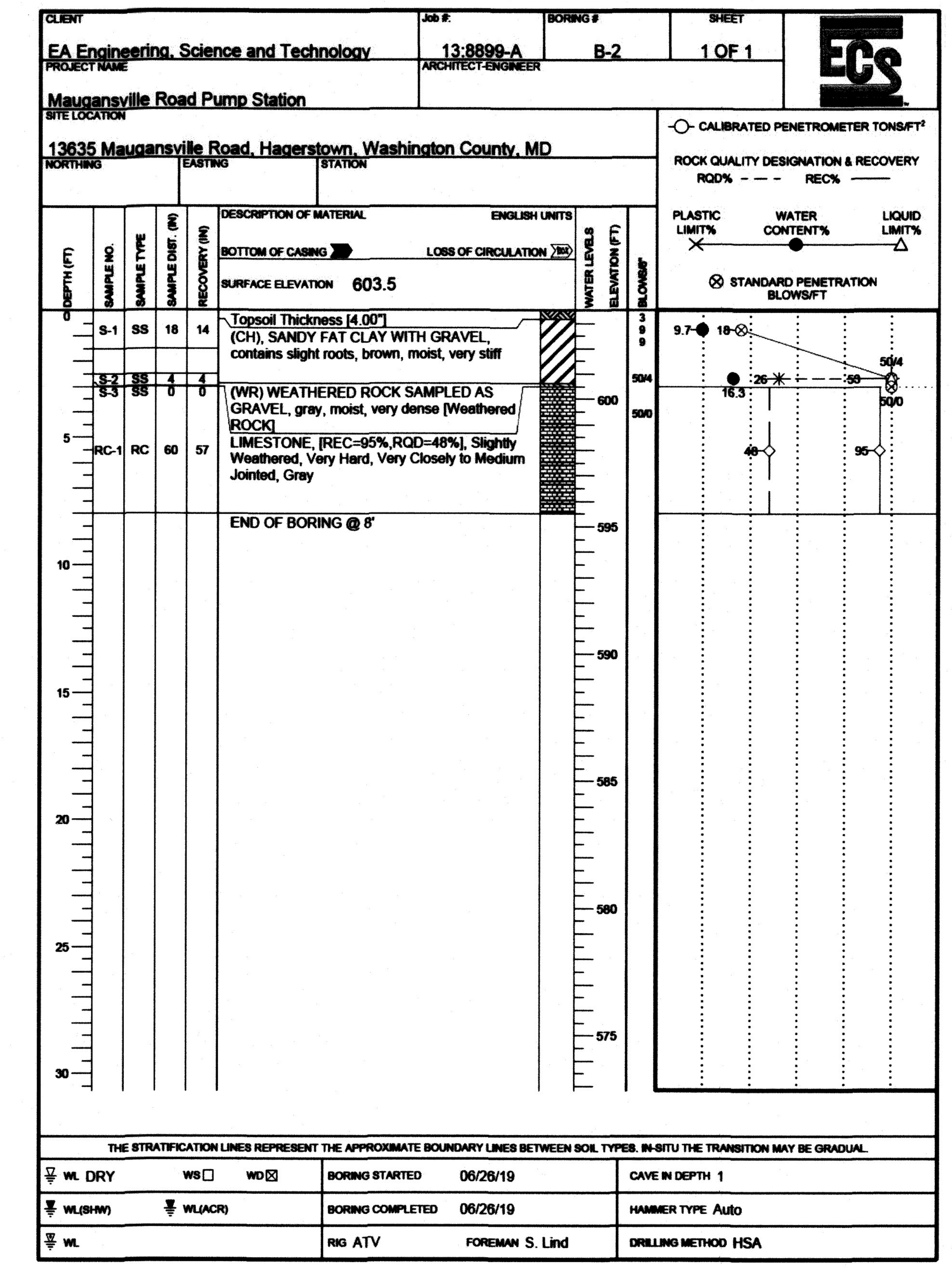
SP-21-025 / SWCP-21-020



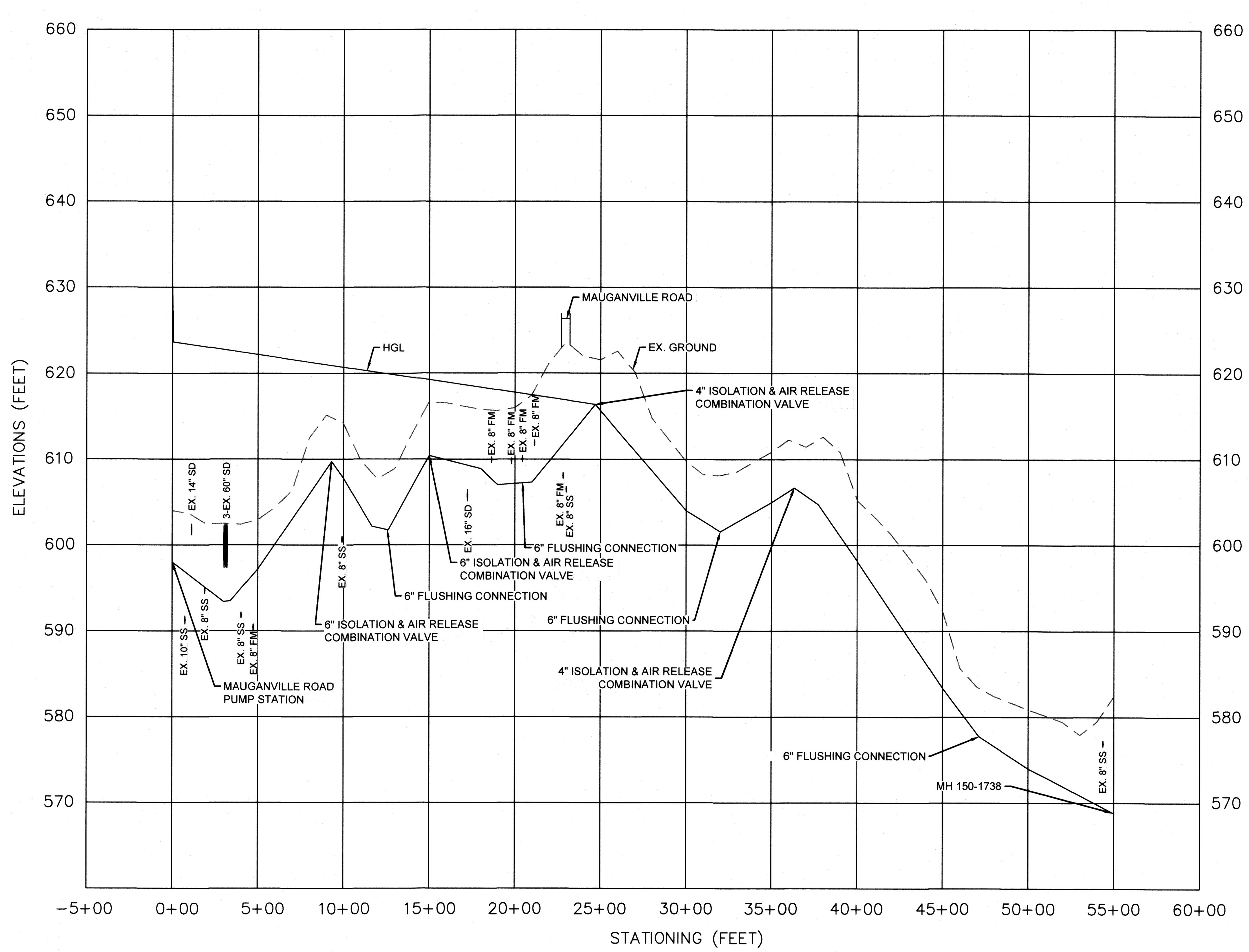
PROPOSED PUMP CURVE
NOT TO SCALE



BORING LOG B-1
NOT TO SCALE



BORING LOG B-2
NOT TO SCALE



MAUGANSVILLE ROAD FORCE MAIN HYDRAULIC GRADE LINE PROFILE
SCALES: HORIZ.: 1"=500'
VERT.: 1"=10'

NOTES:

1. SEE DRAWINGS C-104 THROUGH C-108 FOR DETAILED FORCEMAIN PROFILE.

MAUGANSVILLE ROAD PUMP STATION
13635 MAUGANSVILLE ROAD,
HAGERSTOWN, MD 21740

REVISIONS

NO.	DATE	BY	DESCRIPTION

DESIGN INFORMATION
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16232 ELLIOTT PARKWAY
WILLIAMSPORT, MD 21795

WASHINGTON COUNTY, MARYLAND

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EA Engineering, Science, and Technology, Inc., PBC
Hunt Valley Center
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Hunt Valley, Maryland 21031
(410) 584-7000

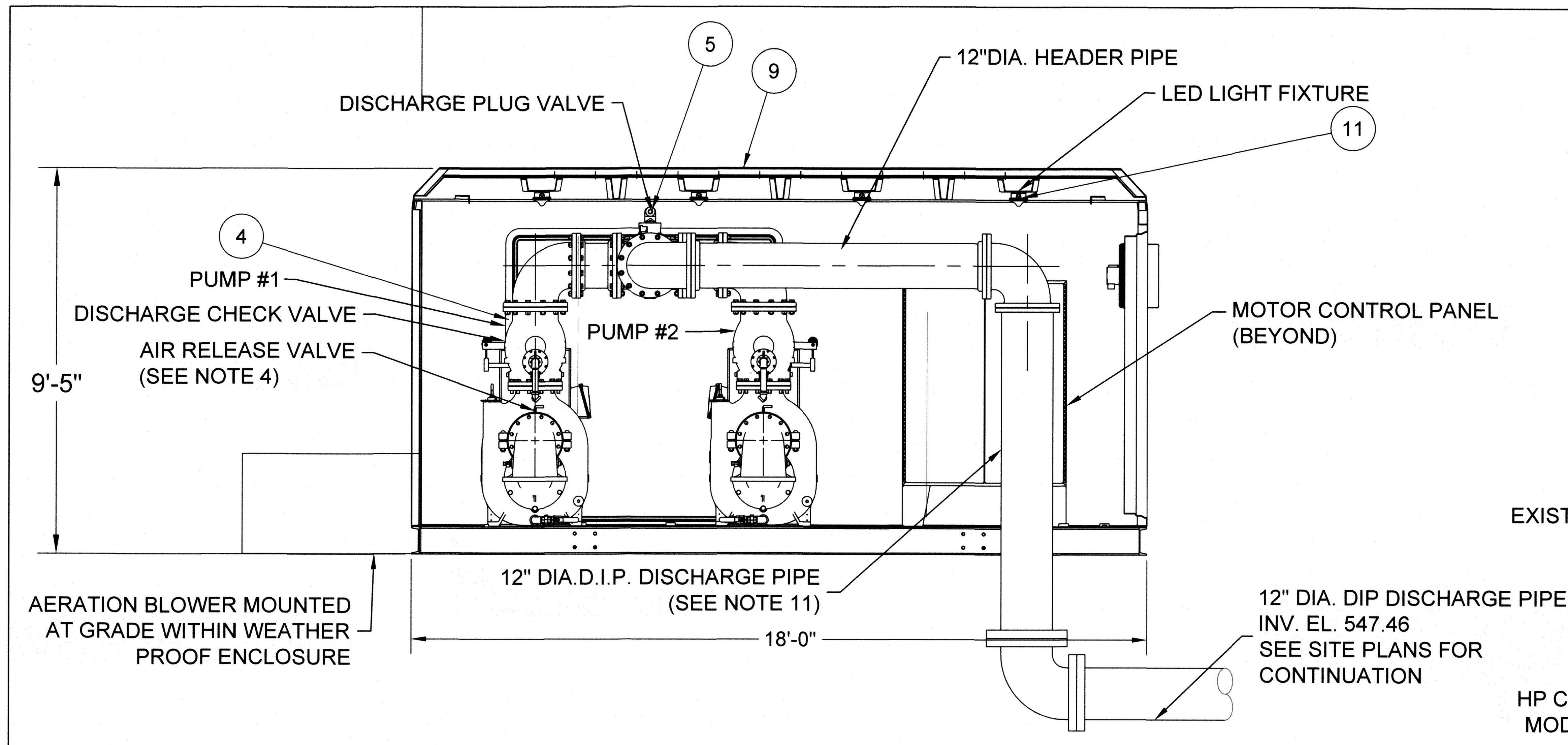
DATE: APRIL 2022

PROJECT NUMBER: 1556701

C-128

SHEET: 31 OF 76

SP-21-025 / SWCP-21-020



ENCLOSURE SECTION
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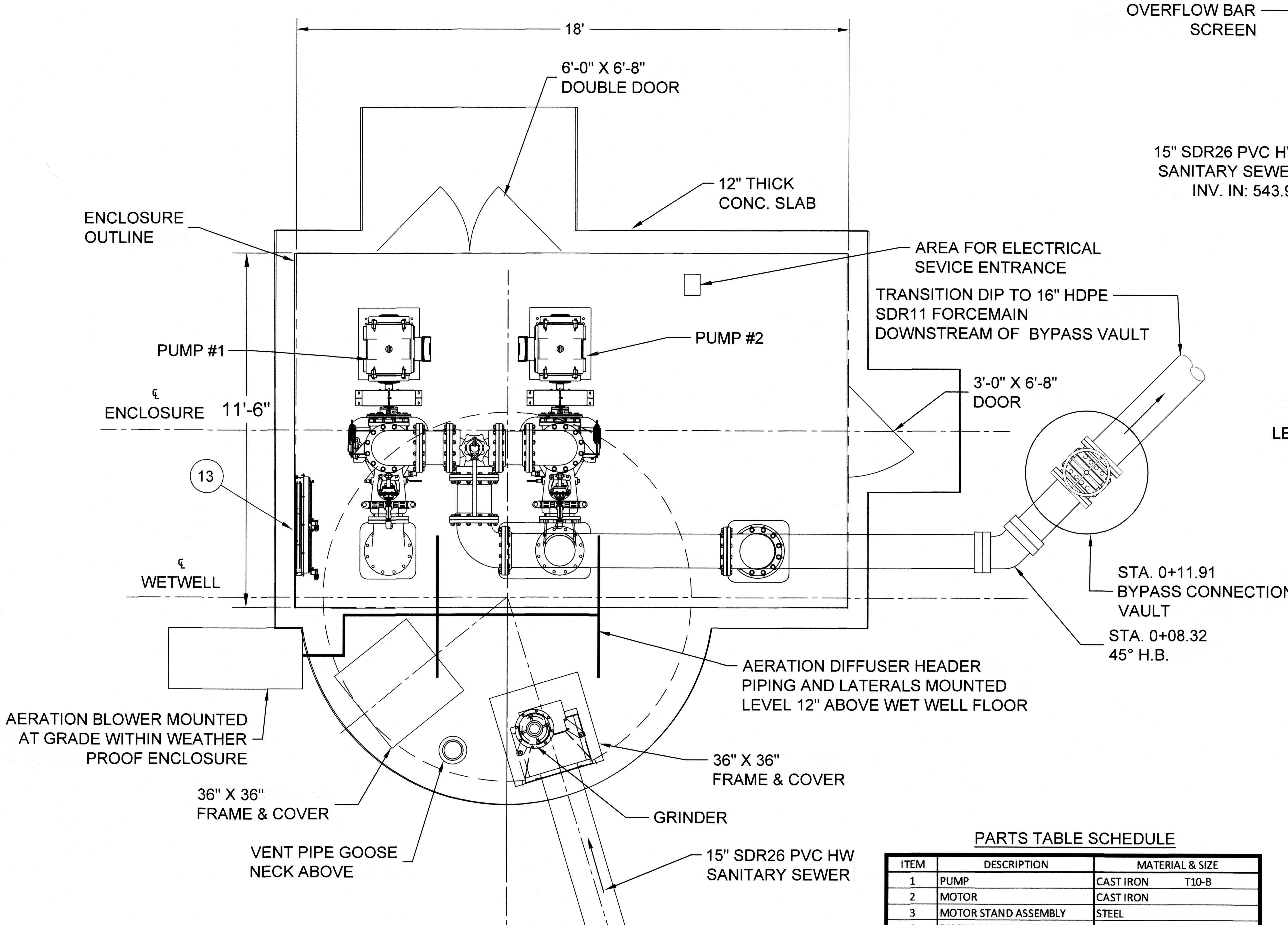

℄
WETWELL

OPERATING FLOOR PLAN
NOT TO SCALE

PARTS TABLE SCHEDULE

ITEM	DESCRIPTION	MATERIAL & SIZE	
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2	MOTOR	CAST IRON	
3	MOTOR STAND ASSEMBLY	STEEL	
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6	AIR RELEASE VALVE	CAST IRON	1"
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8	BELT GUARD ASSEMBLY	ALUMINUM	
9	STATION ENCLOSURE ASS'Y	FRP	11'-6" X 18'
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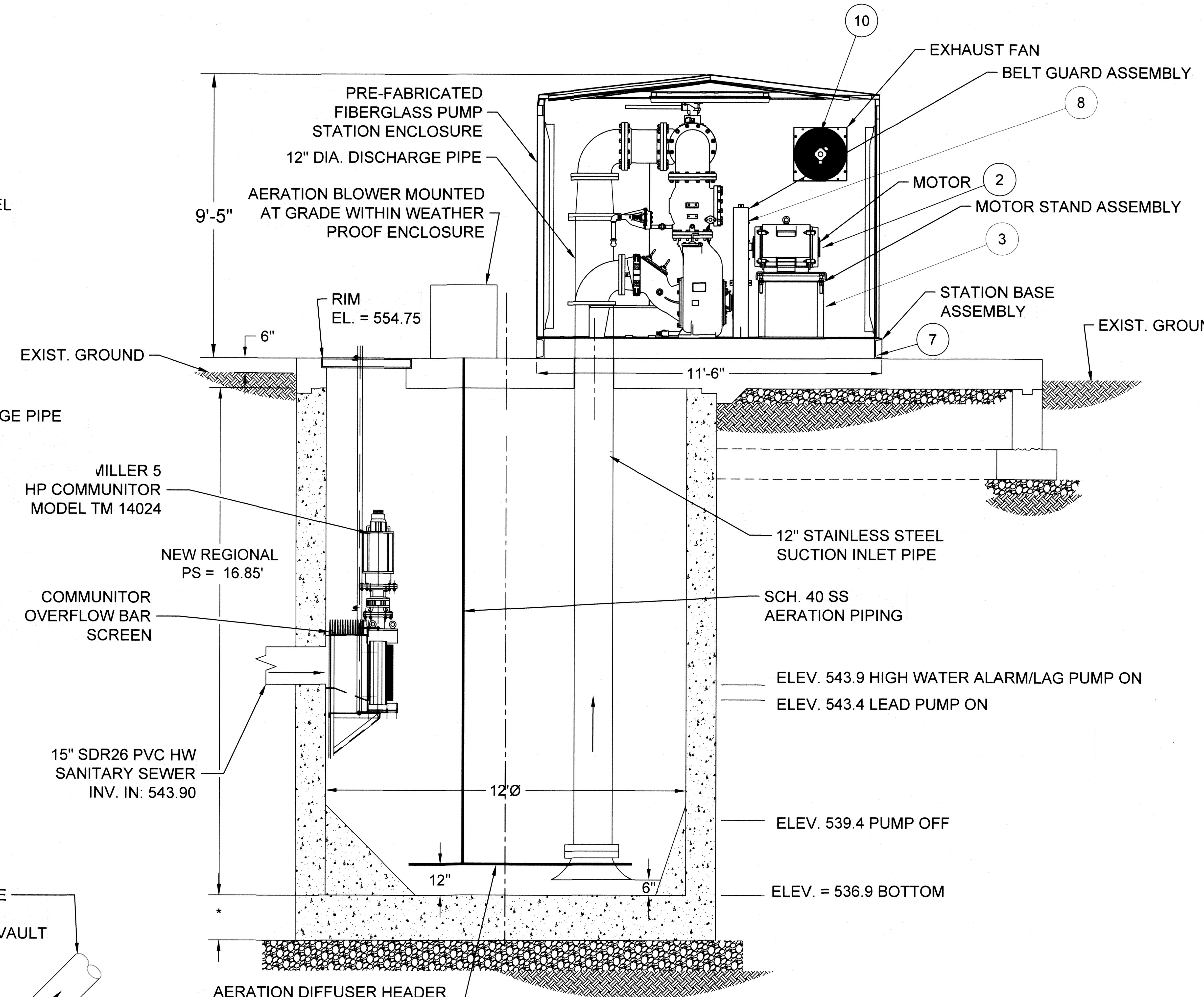

WET WELL SECTION
NOT TO SCALE

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8. SEE DRAWING E-103 FOR ELECTRICAL CONNECTION DETAILS COORDINATE FLOW METER INSTALLATION WITHIN BYPASS MANHOLE DOWNSTREAM OF PUMP STATION. FLOW TRANSMITTER TO BE MOUNTED WITHIN THE PUMP STATION ENCLOSURE.
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NEW REGIONAL PUMP STATION
13240 CEARFOSS PIKE
HAGERSTOWN, MD 21740

REVISIONS

NO.	DATE	BY	DESCRIPTION

DESIGN INFORMATION
DESIGNED BY: RCI/SMD
DRAWN BY: SMB/CAG/JRG
CHECKED BY: SMD
PROJECT MANAGER: RCI

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SEAL
STATE OF MARYLAND
GEOFFREY A. TIZARD II
No. 15453
PROFESSIONAL ENGINEER

WASHINGTON COUNTY DEPARTMENT OF ENGINEERING SERVICES
16232 ELLIOTT PARKWAY
WILLIAMSPORT, MD 21795
WASHINGTON COUNTY, MARYLAND

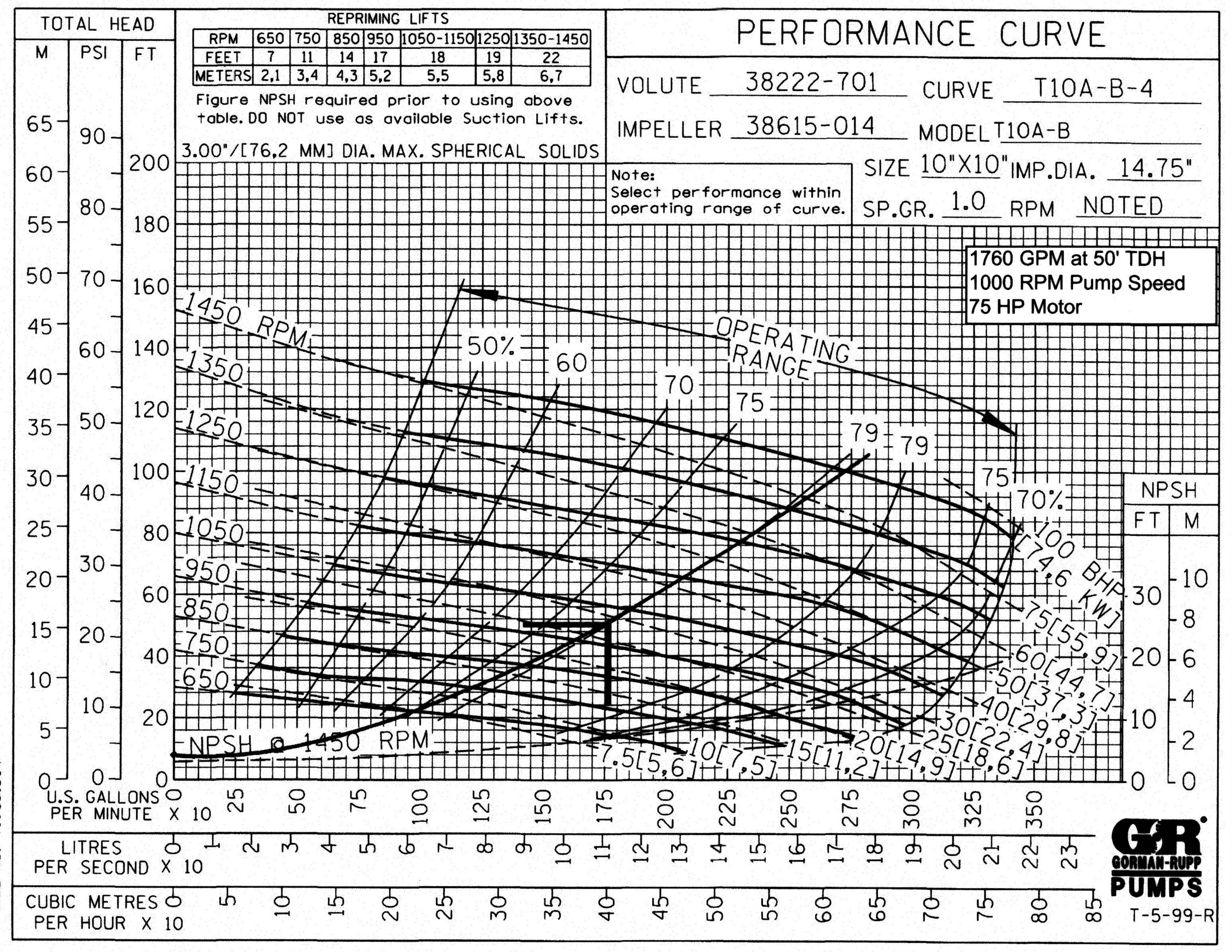
NEW REGIONAL PUMP STATION DETAILS I

EA Engineering, Science, and Technology, Inc., PBC
Hunt Valley Center
225 Schilling Circle, Suite 400
Hunt Valley, Maryland 21031
(410) 584-7000

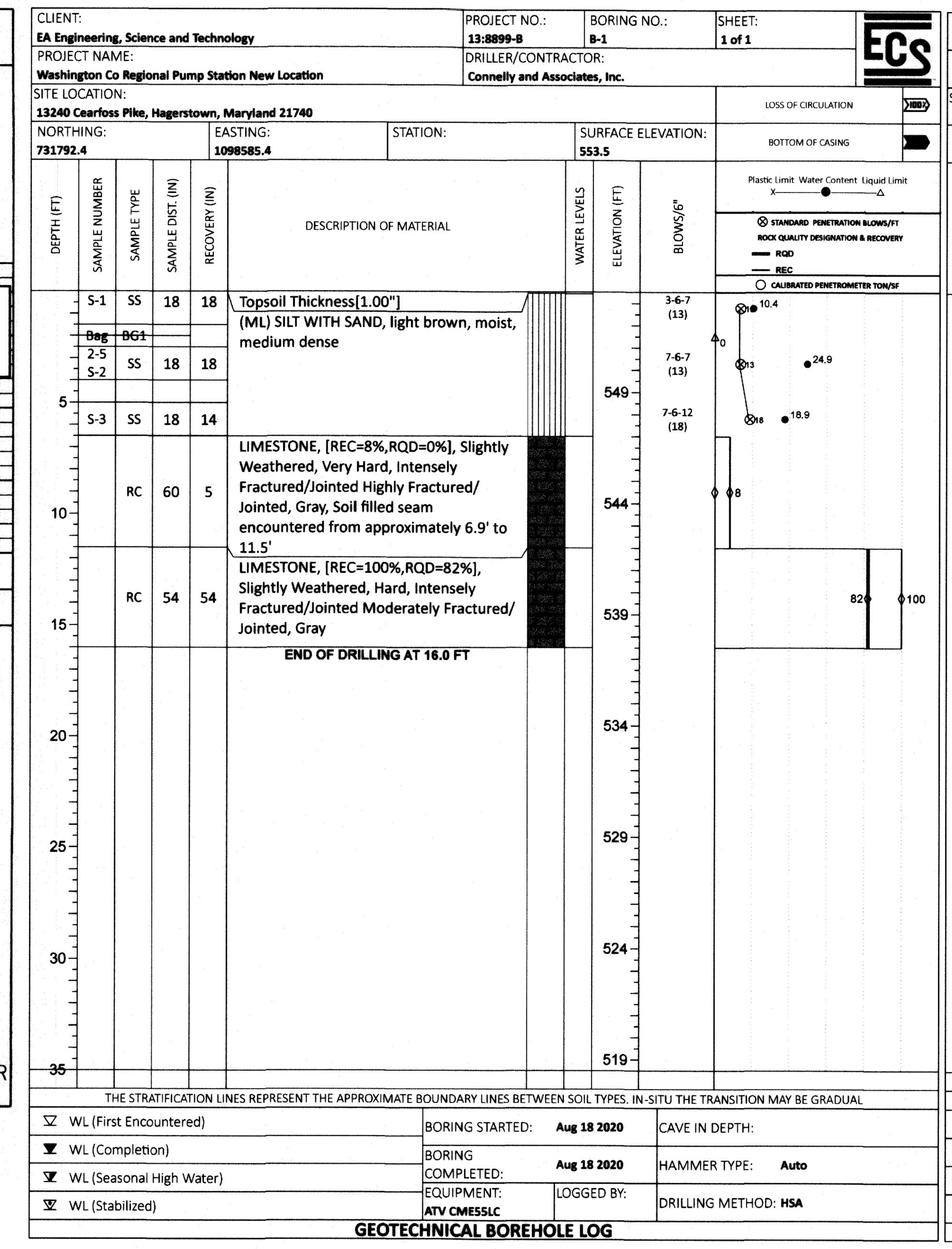
DATE: APRIL 2022
PROJECT NUMBER: 1556701

C-129
SHEET: 32 OF 76

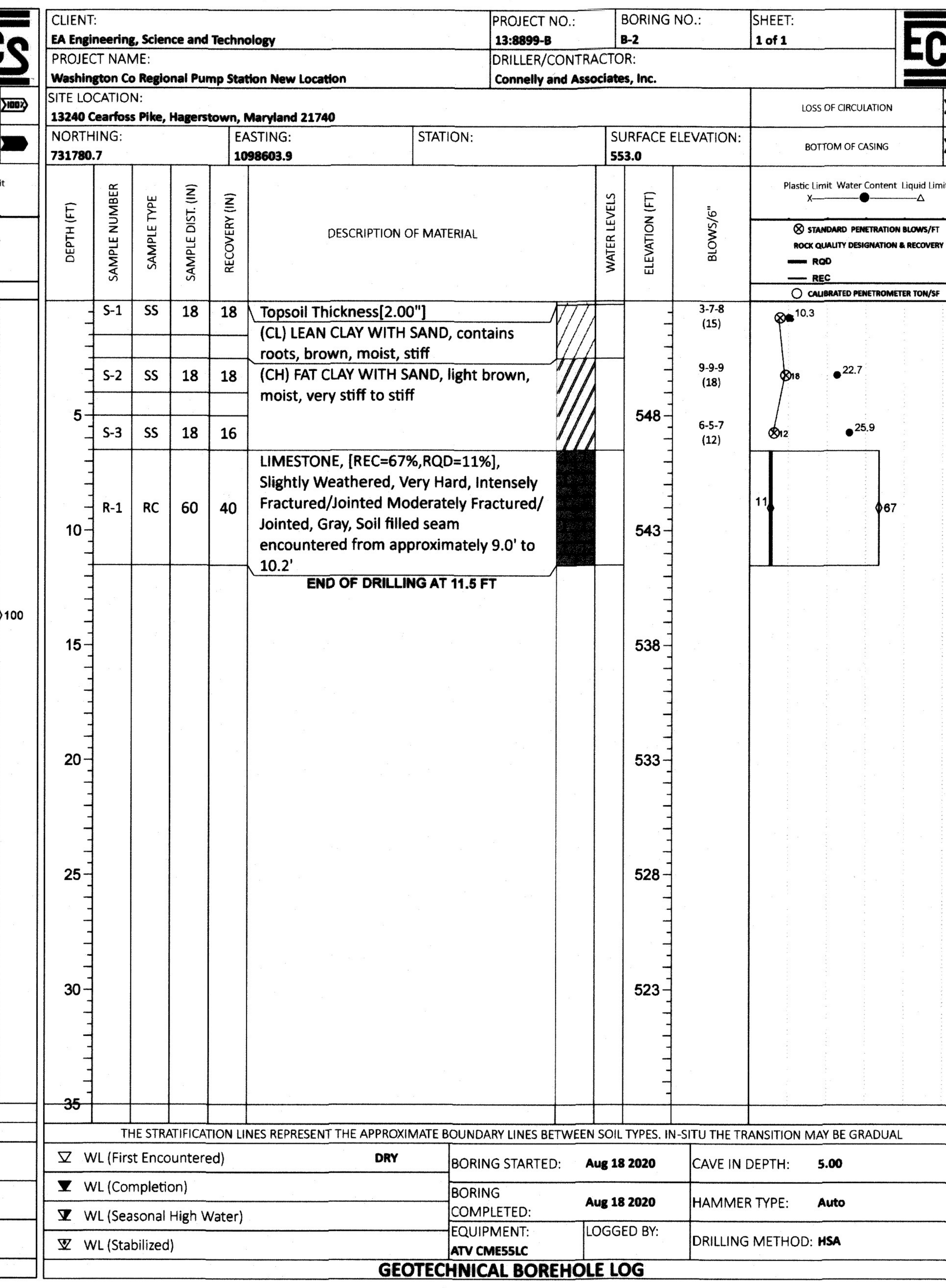
SP-21-025 / SWCP-21-020



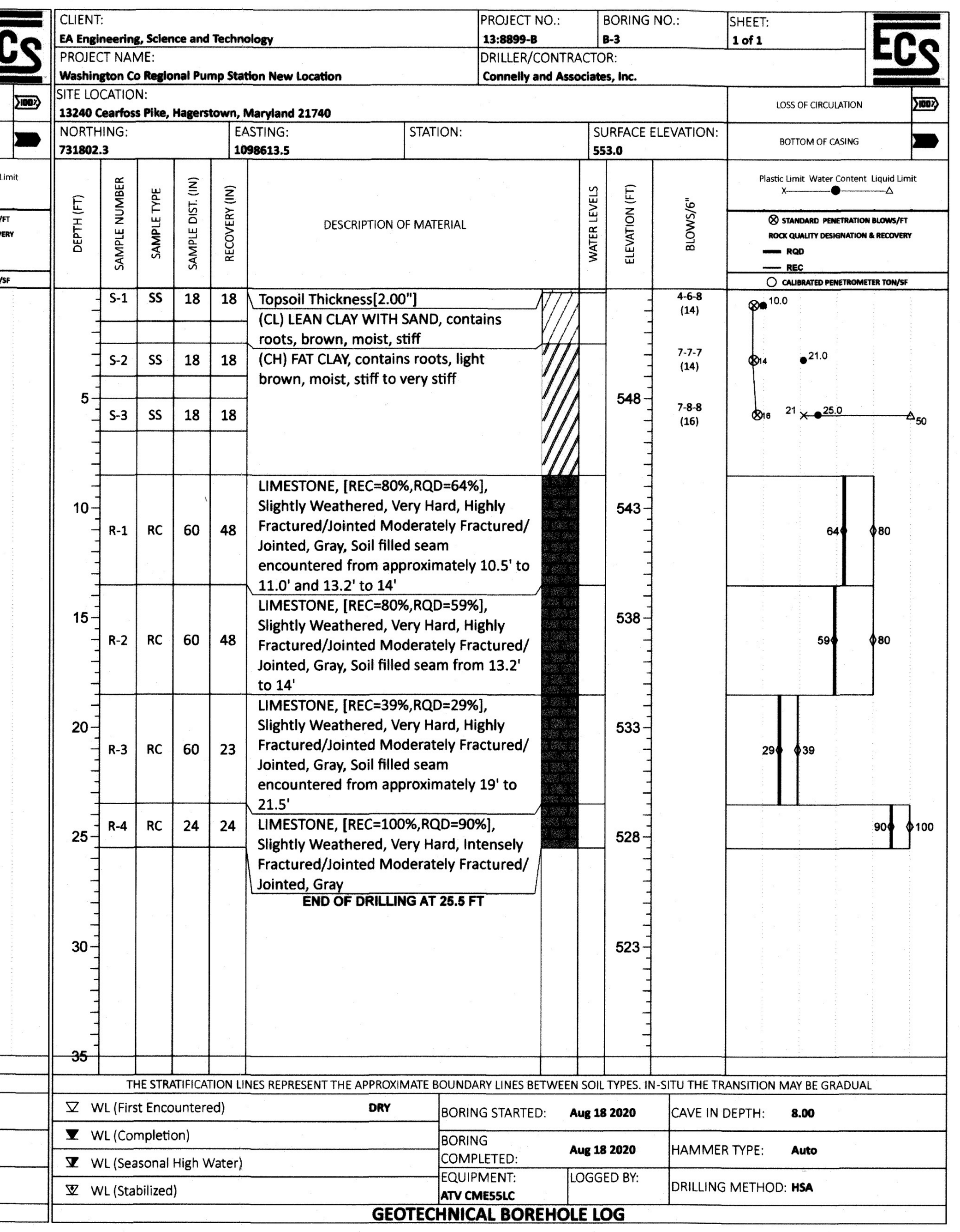
PROPOSED PUMP CURVE
NOT TO SCALE



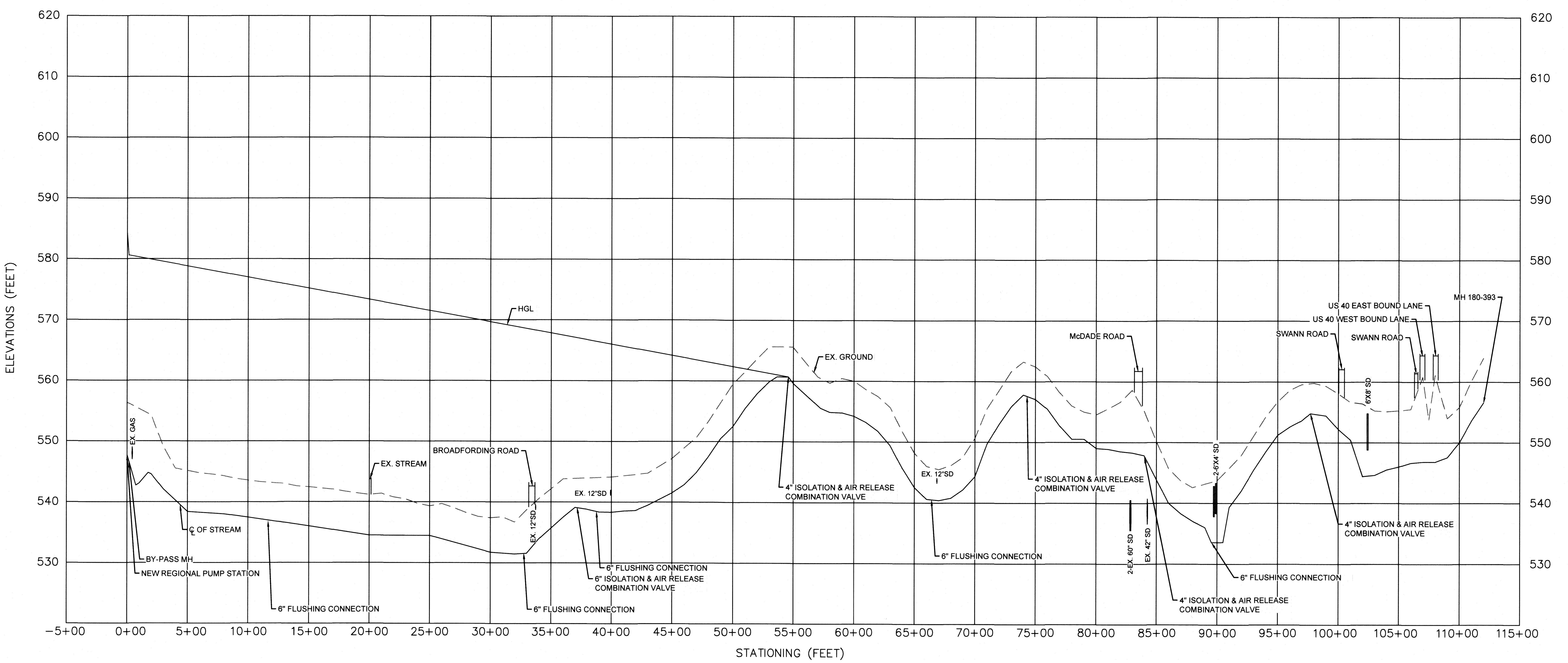
BORING LOG B-1
NOT TO SCALE



BORING LOG B-2
NOT TO SCALE



BORING LOG B-3
NOT TO SCALE



NEW REGIONAL ROAD FORCE MAIN HYDRAULIC GRADE LINE PROFILE
SCALES: HORIZ.: 1"=500'
VERT.: 1"=10'

NOTES:

1. SEE DRAWINGS C-115 THROUGH C-123 FOR DETAILED FORCEMAIN PROFILE.

NEW REGIONAL PUMP STATION
13240 CEARFOSS PIKE,
HAGERSTOWN, MD 21740

REVISIONS: NO. | DATE | BY | DESCRIPTION

DESIGN INFORMATION
DESIGNED BY: RCI/SMD
DRAWN BY: SMB/CAG/JRG
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WASHINGTON COUNTY DEPARTMENT OF ENGINEERING SERVICES
16232 ELLIOTT PARKWAY
WILLIAMSPORT, MD 21795
WASHINGTON COUNTY, MARYLAND

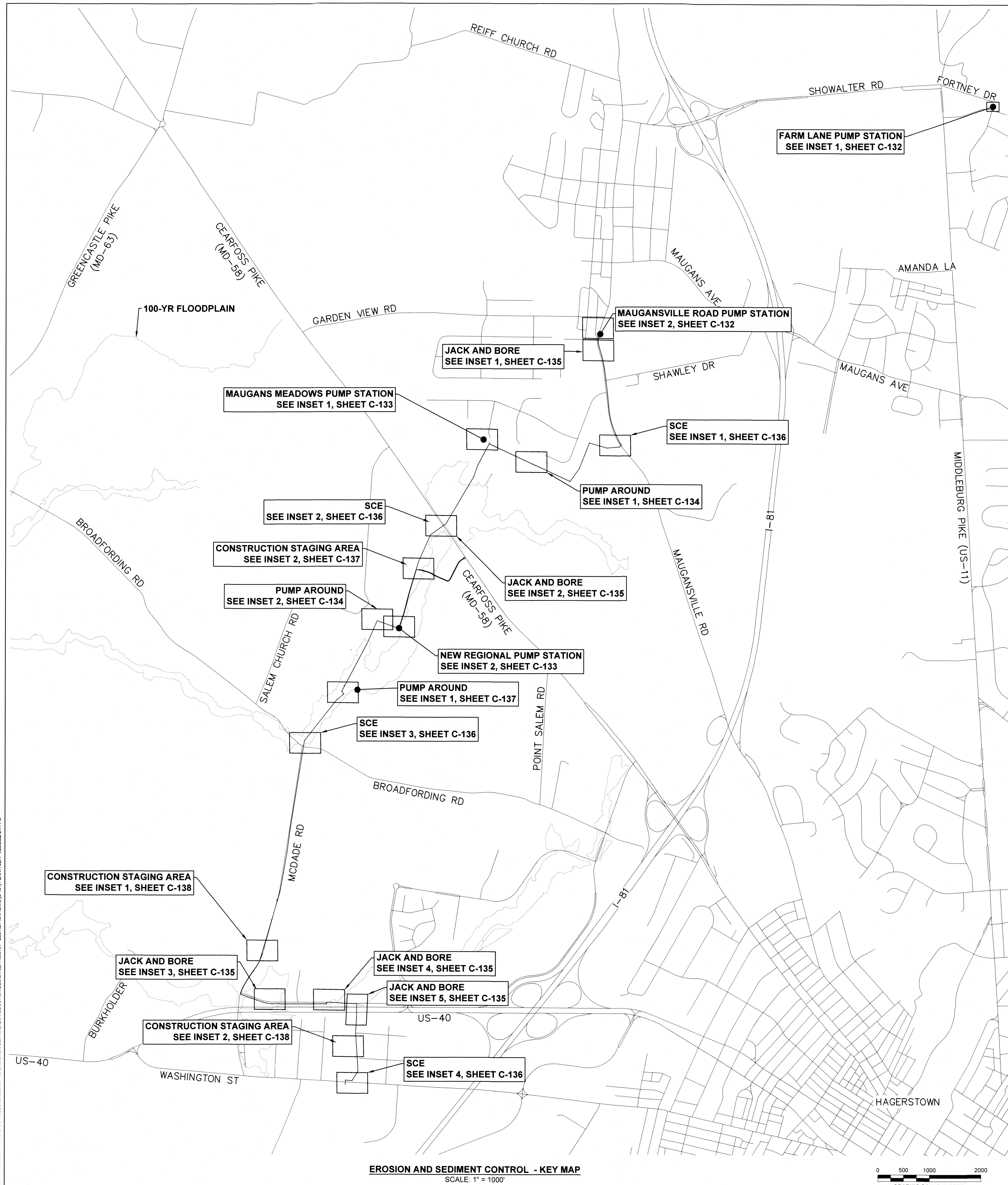
NEW REGIONAL PUMP STATION DETAILS II

EA Engineering, Science, and Technology, Inc., PBC
Hunt Valley Center
225 Schilling Circle, Suite 400
Hunt Valley, Maryland 21031
(410) 584-7000

DATE: APRIL 2022
PROJECT NUMBER: 1556701

C-130
SHEET: 33 OF 76

SP-21-025 / SWCP-21-020



EROSION AND SEDIMENT CONTROL - KEY MAP
SCALE: 1" = 1000'

GENERAL NOTES:

1. DUE TO THE LINEAR NATURE OF THE PROJECT, EXTENSIVE EROSION AND SEDIMENT CONTROLS ARE NOT NECESSARY AND ONLY THOSE REQUIRED ARE SHOWN.

SOIL EROSION, SEDIMENT CONTROL, & SEEDING NOTES:

1. ALL SOIL EROSION/SEDIMENT CONTROL MEASURES SHALL COMPLY WITH THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" AND THE PROVISIONS OF THE APPROVED PLAN.
2. ALL GRADING AND STABILIZATION SHALL COMPLY WITH THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", "SECTION B – GRADING AND STABILIZATION" AND THE PROVISIONS OF THE APPROVED PLAN.
3. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES (BMP'S) ARE TO BE CONSTRUCTED AND/OR INSTALLED PRIOR TO OR AT THE INITIATION OF GRADING IN ACCORDANCE WITH "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", AND THE APPROVED PLAN.
4. A GRADING UNIT IS THE MAXIMUM CONTIGUOUS AREA ALLOWED TO BE GRADED AT A GIVEN TIME AND IS LIMITED TO 20 ACRES. WORK MAY PROCEED TO A SUBSEQUENT GRADING UNIT WHEN AT LEAST 50 PERCENT OF THE DISTURBED AREA IN THE PRECEDING GRADING UNIT HAS BEEN STABILIZED AND APPROVED BY THE ENFORCEMENT AUTHORITY AND/OR THE WASHINGTON COUNTY SOIL CONSERVATION DISTRICT (APPROVAL AUTHORITY). UNLESS OTHERWISE SPECIFIED AND APPROVED BY THE APPROVAL AUTHORITY, NO MORE THAN 30 ACRES CUMULATIVELY MAY BE DISTURBED AT A GIVEN TIME.
5. FOR INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, TEMPORARY OR PERMANENT STABILIZATION MUST BE COMPLETED WITHIN:
   a. THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1);
   b. AND SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.
6. STOCKPILES MUST BE STABILIZED IN ACCORDANCE WITHIN THE 7 DAY STABILIZATION REQUIREMENT, AS WELL AS, STANDARD B-4-1 INCREMENTAL STABILIZATION AND STANDARD B-4-4 TEMPORARY STABILIZATION (AS APPLICABLE).
7. ALL CONSTRUCTED CHANNELS AND SWALES SHALL HAVE SPECIFIED TREATMENT INSTALLED TO THE DESIGN FLOW DEPTH COMPLETED DOWNSTREAM TO UPSTREAM AS CONSTRUCTION PROGRESSES. AN INSTALLATION DETAIL SHALL BE SHOWN ON THE PLANS.
8. ALL STORM DRAIN AND SANITARY SEWER LINES NOT IN PAVED AREAS ARE TO BE MULCHED AND SEEDED WITHIN 3 DAYS OF INITIAL BACKFILL UNLESS OTHERWISE SPECIFIED ON PLANS.
9. ELECTRIC POWER, TELEPHONE, AND GAS LINES ARE TO BE COMPACTED, SEEDED, AND MULCHED WITHIN3 DAYS AFTER INITIAL BACKFILL UNLESS OTHERWISE SPECIFIED ON PLANS.
10. NO SLOPE SHALL BE GREATER THAN 2:1.
11. AS REQUIRED BY SECTION B, OF THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, "ADEQUATE VEGETATIVE STABILIZATION", IS DEFINED AS 95 PERCENT GROUND COVER. THE WASHINGTON COUNTY SOIL CONSERVATION DISTRICT REQUIRES THE PROJECT ADHERE TO THIS FOR SCHEDULING OF THE FINAL SITE CLOSEOUT REVIEW, AND/OR RELEASE OF THE SITE FOR SOIL EROSION AND SEDIMENT CONTROL.
12. THE CONTRACTOR SHALL BE RESPONSIBLE TO:
   A. OBTAIN A MARYLAND DEPARTMENT OF THE ENVIRONMENT, GENERAL PERMIT FOR STORMWATER ASSOCIATED WITH A CONSTRUCTION ACTIVITY, NPDES PERMIT NUMBER MDRC, STATE DISCHARGE PERMIT NUMBER 14GP, OR AN INDIVIDUAL PERMIT.
   B. MARYLAND DEPARTMENT OF THE ENVIRONMENT GENERAL/INDIVIDUAL PERMIT – NOTICE OF INTENT (NOI) APPLICATION AND PERMIT SHALL BE POSTED AND/OR AVAILABLE ON-SITE AT ALL TIMES.
   C. DURING CONSTRUCTION, ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES (BMP'S) SHALL BE INSPECTED AND RECORDED ON THE "STANDARD INSPECTION FORM", "GENERAL PERMIT FOR STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY" PER THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (GENERAL/INDIVIDUAL PERMIT – NOTICE OF INTENT – NOI).
   D. FOLLOWING CONSTRUCTION AND RELEASE OF THE SITE FOR SOIL EROSION AND SEDIMENT CONTROL BY THE WASHINGTON COUNTY SOIL CONSERVATION DISTRICT, I.E., ALL PORTIONS OF A SITE HAVE BEEN PERMANENTLY STABILIZED, AND ALL STORMWATER DISCHARGES FROM CONSTRUCTION SITES THAT ARE AUTHORIZED BY THE PERMIT ARE ELIMINATED, THE AUTHORIZED PERMITTEE SHALL SUBMIT THE MARYLAND DEPARTMENT OF THE ENVIRONMENT, GENERAL/INDIVIDUAL PERMIT – NOTICE OF TERMINATION-NOT.

STANDARD UTILITY NOTES:

1. CONTRACTOR TO ONLY OPEN UP LENGTH OF TRENCH THAT CAN BE CONSTRUCTED AND BACKFILLED IN ONE WORKING DAY IN PAVED AREAS.
2. CONTRACTOR TO PLACE EXCAVATED MATERIALS IN A DUMP TRUCK AND HAULED TO AN APPROVED LOCATION TO WASTED MATERIALS TO PAVED AREAS.
3. CONTRACTOR TO BACKFILL TRENCH WITH APPROVED MATERIALS AND STABILIZE DISTURBED AREAS THE SAME WORKING DAY.
4. IN AREAS WHERE THE CONSTRUCTION TAKES TO PLACE OUTSIDE OF THE EXISTING ROADBED, CONTRACTOR TO INSTALL SILT FENCE ALONG THE DOWNHILL SIDE OF THE TRENCH BEFORE BEGINNING CONSTRUCTION AND PLACE EXCAVATED MATERIAL FROM THE TRENCH ON THE UPHILL SIDE.
5. IF DEWATERING OF THE TRENCH IS REQUIRED, CONTRACTOR TO PUMP WATER TO A FILTER BAG TO DEWATER.
6. CONTRACTOR TO SWEEP STREETS OF ANY DEBRIS OR SEDIMENTS CAUSED BY CONSTRUCTION OPERATIONS AND DISPOSE OF AT AN APPROVED LOCATION.
7. CONTRACTOR TO STABILIZE ALL DISTURBED AREAS WITH SEED & MULCH OR APPROPRIATE STREET REPAIR.

EROSION AND SEDIMENT CONTROL SEQUENCE OF CONSTRUCTION:

1. CONTRACTOR SHALL NOTIFY THE WASHINGTON COUNTY SOIL CONSERVATION DISTRICT AT 301-797-6821, EXT. 3 AT LEAST FIVE (5) DAYS PRIOR TO THE START OF CONSTRUCTION TO SCHEDULE A PRE-CONSTRUCTION MEETING. CONTRACTOR SHALL NOTIFY THE WASHINGTON COUNTY DEPARTMENT OF WATER QUALITY (DWQ) A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION. FAILURE TO DO SO MAY RESULT IN AN IMMEDIATE "STOP WORK ORDER."
2. OBTAIN PROPER PERMITS AND NOTIFY MISS UTILITY (1-800-257-7777) AT LEAST 72 HOURS PRIOR TO CONSTRUCTION.
3. INSTALL STABILIZED CONSTRUCTION ENTRANCES (SCE). SEE DRAWING C-136 FOR STABILIZED CONSTRUCTION ENTRANCE LOCATIONS.
4. CLEAR AND GRUB FOR THE INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS AND INSTALL PERIMETER EROSION AND SEDIMENT CONTROLS AS SHOWN ON PLANS, INCLUDING SILT FENCE AND SANDBAGS. SEE DRAWING C-132 AND C-133 FOR CONTROLS AT EACH PUMP STATION LOCATION; DRAWING C-134 AND C-137 FOR CONTROLS AT EACH STREAM DIVERSION LOCATION; DRAWING C-135 FOR CONTROLS AT EACH JACK AND BORE LOCATION.
5. TEMPORARILY SEED AND MULCH ALL TOPSOIL STOCKPILES IN ACCORDANCE WITH THE SOIL EROSION, SEDIMENT CONTROL, & SEEDING NOTES THIS SHEET.
6. ANY SPOIL AND/OR BORROW SHALL COME FROM AND/OR GO TO A STOCKPILE AREA WITH AN APPROVED AND CURRENT SOIL EROSION AND SEDIMENT CONTROL PLAN. SEE DRAWING C-137 AND C-138 FOR STOCKPILE AREAS AND ASSOCIATED CONTROLS.
7. COORDINATE WITH WASHINGTON COUNTY DWQ FOR ACCESS TO EXISTING VALVES AND PUMP STATIONS AS NECESSARY. MAUGANSVILLE ROAD PUMP STATION TO REMAIN IN OPERATION AT ALL TIMES.
8. EXCAVATE, INSTALL FORCEMAIN AND GRAVITY PIPING, AND BACKFILL UTILIZING SAME DAY STABILIZATION PROCEDURES. NO OPEN TRENCHES SHALL BE PERMITTED OVERNIGHT UNLESS 48 HOUR WRITTEN NOTICE IS PROVIDED TO THE WASHINGTON COUNTY DWQ AND APPROVED.
9. INSTALL PUMP STATIONS IN ACCORDANCE WITH SEQUENCES OF CONSTRUCTION SHOWN ON EACH PUMP STATION SITE PLAN (E.G. C-101, C-103, C-109, AND C-113). INSTALL WET WELL, FORCEMAIN AND GRAVITY PIPING, AND ALL OTHER ASSOCIATED WASTEWATER EQUIPMENT AND APPURTENANCES. CONDUCT TESTING ON ALL INSTALLED EQUIPMENT.
10. INSTALL ELECTRICAL ITEMS AND PROVIDE ALL NECESSARY CONNECTIONS TO PUMP STATIONS TO PROVIDE FUNCTIONAL SYSTEMS.
11. INSTALL GRAVEL DRIVEWAYS, RESTORE DISTURBED ROADWAYS AND DRIVEWAYS AND STABILIZE ALL OTHER DISTURBED AREAS.
12. FOLLOWING INITIAL DISTURBANCE, PERMANENT AND TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN THREE (3) CALENDAR DAYS ON ALL PERIMETER CONTROLS AND SLOPES GREATER THAN 3H:1V AND SEVEN (7) CALENDAR DAYS ON ALL OTHER DISTURBED AREAS ON THE SITE.
13. FINE GRADE ANY REMAINING UNSTABILIZED AREAS OF PROJECT SITES. PERMANENTLY STABILIZE DISTURBED AREAS IN ACCORDANCE WITH SPECIFICATIONS AND PERMANENT SEEDING AND MULCHING IN ACCORDANCE WITH THE SOIL EROSION, SEDIMENT CONTROL, & SEEDING NOTES THIS SHEET.
14. CONTRACTOR SHALL NOTIFY THE WASHINGTON COUNTY SOIL CONSERVATION DISTRICT AT 301-797-6821, EXT. 3 AND THE WASHINGTON COUNTY DWQ AT LEAST FIVE (5) DAYS PRIOR TO THE REMOVAL OF ANY SOIL EROSION AND SEDIMENT CONTROL FEATURES TO SCHEDULE A FINAL SITE CLOSEOUT REVIEW MEETING. VEGETATION MUST MEET THE 95% OVERALL STABILIZATION REQUIREMENT PER THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, PRIOR TO SCHEDULING SAID MEETING.
15. CLEAN OUT THE SEDIMENT BASIN, RESTORE TO FINAL GRADES, STABILIZE AND REMOVE DRAW DOWN DEVICES, AS APPLICABLE. STABILIZE ANY AREAS OF SOIL EROSION AND SEDIMENT CONTROL REMOVAL.

BEST MANAGEMENT PRACTICES FOR WORKING IN NONTIDAL WETLANDS, WETLAND BUFFERS, WATERWAYS, AND 100-YEAR FLOODPLAINS:

1. NO EXCESS FILL, CONSTRUCTION MATERIAL, OR DEBRIS SHALL BE STOCKPILED OR STORED IN NONTIDAL WETLANDS, NONTIDAL WETLAND BUFFERS, WATERWAYS, OR THE 100-YEAR FLOODPLAIN.
2. PLACE MATERIALS IN A LOCATION AND MANNER WHICH DOES NOT ADVERSELY IMPACT SURFACE OR SUBSURFACE WATER FLOW INTO OR OUT OF NONTIDAL WETLANDS, NONTIDAL WETLAND BUFFERS, WATERWAYS, OR THE 100-YEAR FLOODPLAIN.
3. DO NOT USE THE EXCAVATED MATERIAL AS BACKFILL IF IT CONTAINS WASTE METAL PRODUCTS, UNSIGHTLY DEBRIS, TOXIC MATERIAL, OR ANY OTHER DELETERIOUS SUBSTANCE. IF ADDITIONAL BACKFILL IS REQUIRED, USE CLEAN MATERIAL FREE OF WASTE METAL PRODUCTS, UNSIGHTLY DEBRIS, TOXIC MATERIAL, OR ANY OTHER DELETERIOUS SUBSTANCE.
4. PLACE HEAVY EQUIPMENT ON MATS OR SUITABLY OPERATE THE EQUIPMENT TO PREVENT DAMAGE TO NONTIDAL WETLANDS, NONTIDAL WETLAND BUFFERS, WATERWAYS, OR THE 100-YEAR FLOODPLAIN.
5. REPAIR AND MAINTAIN ANY SERVICEABLE STRUCTURE OR FILL SO THERE IS NO PERMANENT LOSS OF NONTIDAL WETLANDS, NONTIDAL WETLAND BUFFERS, OR WATERWAYS, OR PERMANENT MODIFICATION OF THE 100-YEAR FLOODPLAIN IN EXCESS OF THAT LOST UNDER THE ORIGINALLY AUTHORIZED STRUCTURE OR FILL.
6. RECTIFY ANY NONTIDAL WETLANDS, WETLAND BUFFERS, WATERWAYS, OR 100-YEAR FLOODPLAIN TEMPORARILY IMPACTED BY ANY CONSTRUCTION.
7. ALL STABILIZATION IN THE NONTIDAL WETLAND AND NONTIDAL WETLAND BUFFER SHALL CONSIST OF THE FOLLOWING SPECIES: ANNUAL RYEGRASS (LOLIUM MULTIFLORUM), MILLET (SETARIA ITALICA), BARLEY (HORDEUM SP.), OATS (UNIOLA SP.), AND/OR RYE (SECALE CEREALE). THESE SPECIES WILL ALLOW FOR THE STABILIZATION OF THE SITE WHILE ALSO ALLOWING FOR THE VOLUNTARY REVEGETATION OF NATURAL WETLAND SPECIES. OTHER NON-PERSISTENT VEGETATION MAY BE ACCEPTABLE, BUT MUST BE APPROVED BY THE NONTIDAL WETLANDS DIVISION. KENTUCKY 31 FESCUE SHALL NOT BE UTILIZED IN WETLAND OR BUFFER AREAS. THE AREA SHOULD BE SEEDED AND MULCHED TO REDUCE EROSION AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.
8. AFTER INSTALLATION HAS BEEN COMPLETED, MAKE POST-CONSTRUCTION GRADES AND ELEVATIONS THE SAME AS THE ORIGINAL GRADES AND ELEVATIONS IN TEMPORARILY IMPACTED AREAS.
9. TO PROTECT AQUATIC SPECIES, IN-STREAM WORK IS PROHIBITED AS DETERMINED BY THE CLASSIFICATION OF THE STREAM: USE IV WATERS: IN-STREAM WORK SHALL NOT BE CONDUCTED DURING THE PERIOD MARCH 1 THROUGH MAY 31, INCLUSIVE, DURINGANY YEAR.
10. STORMWATER RUNOFF FROM IMPERVIOUS SURFACES SHALL BE CONTROLLED TO PREVENT THE WASHING OF DEBRIS INTO THE WATERWAY.
11. CULVERTS SHALL BE CONSTRUCTED AND ANY RIPRAP PLACED SO AS NOT TO OBSTRUCT THE MOVEMENT OF AQUATIC SPECIES, UNLESS THE PURPOSE OF THE ACTIVITY IS TO IMPOUND WATER.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGN INFORMATION
DESIGNED BY: RCI/SMD
DRAWN BY: SMB/CAG/JRG
CHECKED BY: MP
PROJECT MANAGER: RCI

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 15453 EXPIRATION DATE: 7/02/2023

SEAL

WASHINGTON COUNTY DEPARTMENT OF ENGINEERING SERVICES
16232 ELLIOTT PARKWAY
WILLIAMSPORT, MD 21795
WASHINGTON COUNTY, MARYLAND

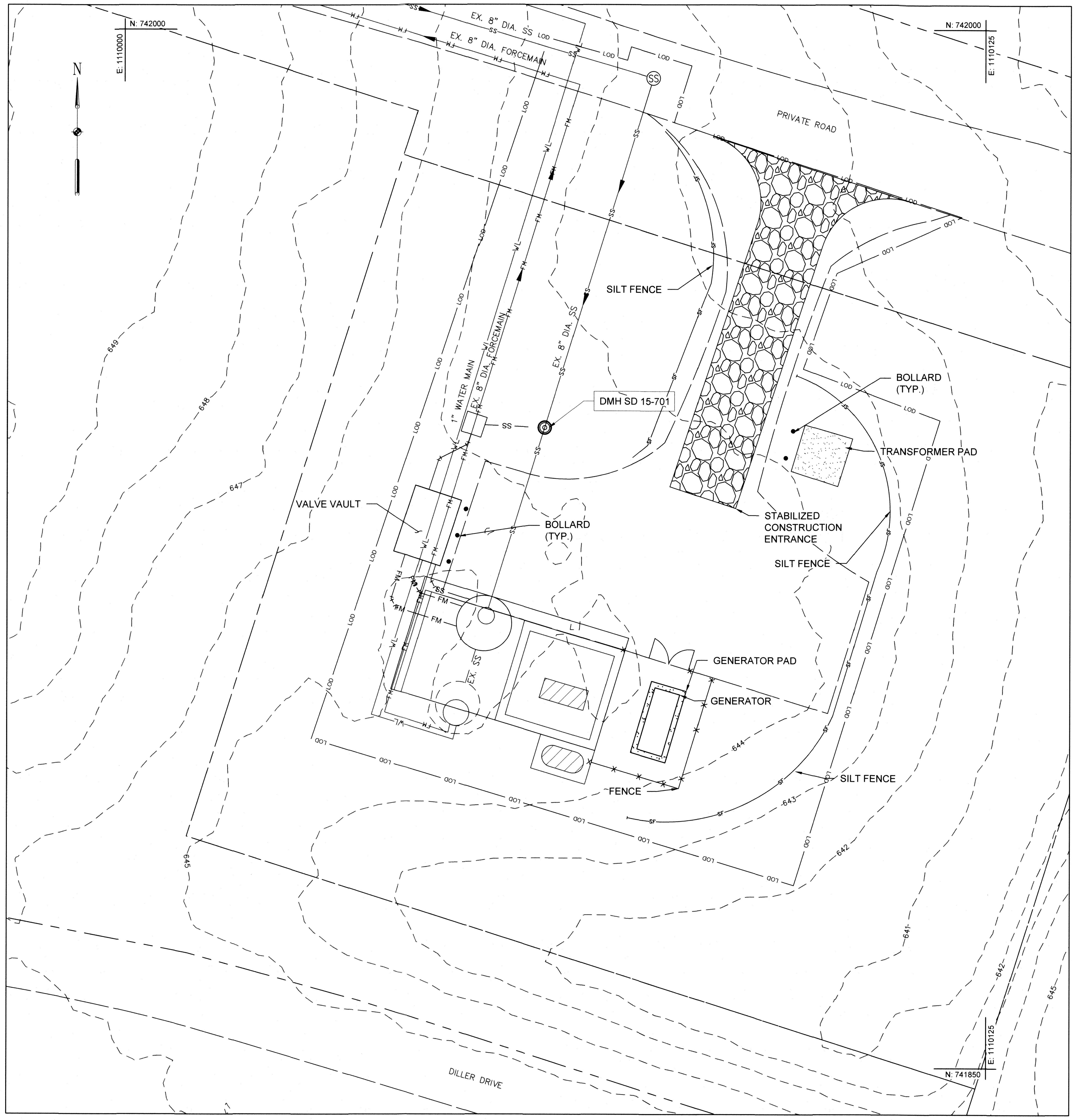
E&S CONTROL KEY MAP

EA Engineering, Science, and Technology, Inc., PBC
Hunt Valley Center
225 Schilling Circle, Suite 400
Hunt Valley, Maryland 21031
(410) 584-7000

DATE: APRIL 2022
PROJECT NUMBER: 1556701

C-131

SP-21-025 / SWCP-21-020

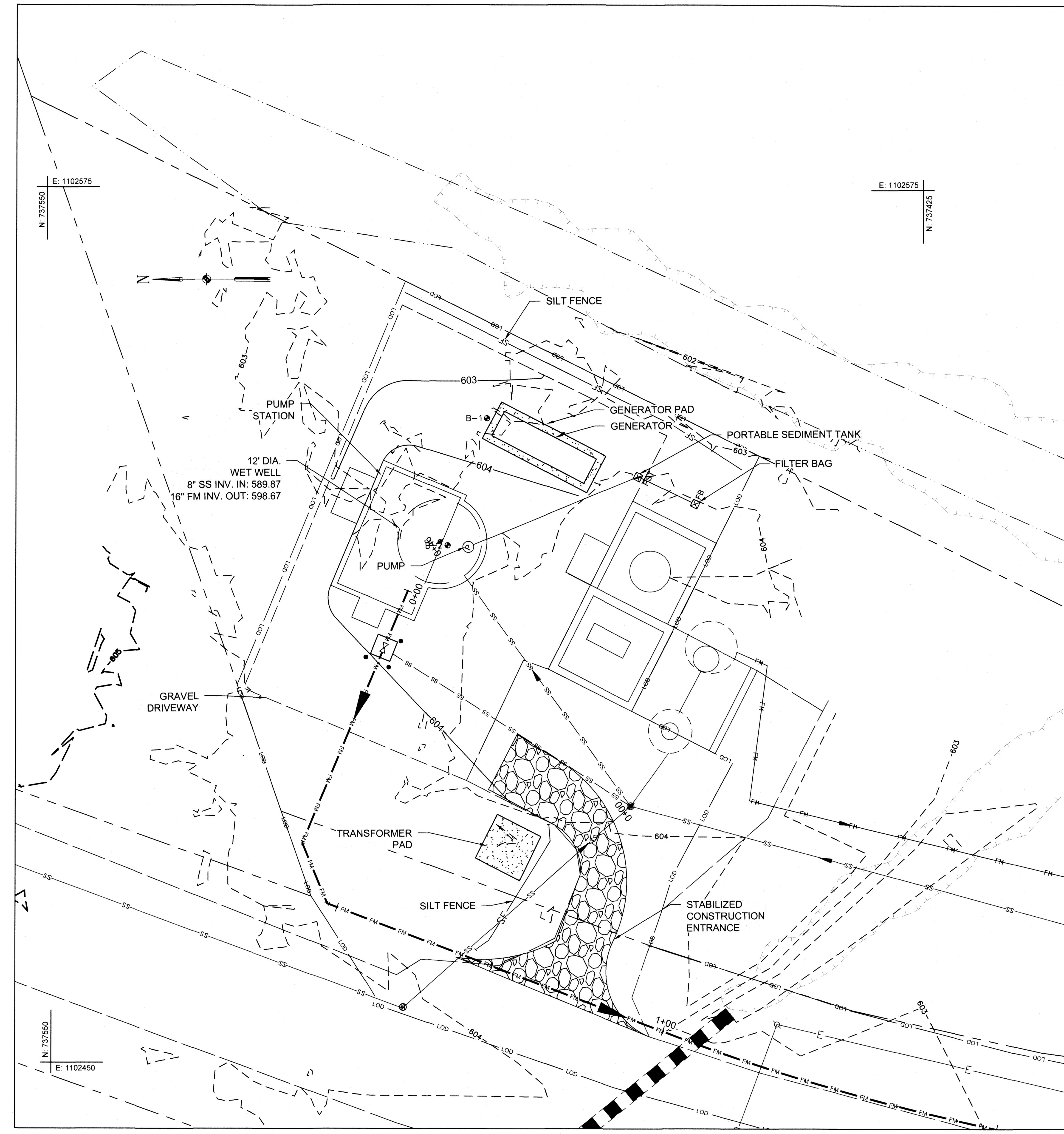


INSET 1: FARM LANE PUMP STATION
SCALE: 1" = 10'

FARM LANE PUMP STATION
14135 PENNSYLVANIA AVENUE,
HAGERSTOWN, MD 21742

NOTE:

1. SEE DRAWING C-101 FOR EXISTING AND PROPOSED SITE PLAN AND OVERALL LOD IN THIS AREA.



INSET 2: MAUGANSVILLE ROAD PUMP STATION
SCALE: 1" = 10'

MAUGANSVILLE ROAD PUMP STATION
13635 MAUGANSVILLE ROAD,
HAGERSTOWN, MD 21740

NOTE:

1. SEE DRAWING C-102 AND C-103 FOR EXISTING AND PROPOSED SITE PLAN AND OVERALL LOD IN THIS AREA.

0 5 10 20
GRAPHIC SCALE IN FEET

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGN INFORMATION
DESIGNED BY: RCI/SMD
DRAWN BY: SMB/CAG/JRG
CHECKED BY: MP
PROJECT MANAGER: RCI

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SEAL

WASHINGTON COUNTY DEPARTMENT OF ENGINEERING SERVICES
16232 ELLIOTT PARKWAY
WILLIAMSPORT, MD 21795
WASHINGTON COUNTY, MARYLAND

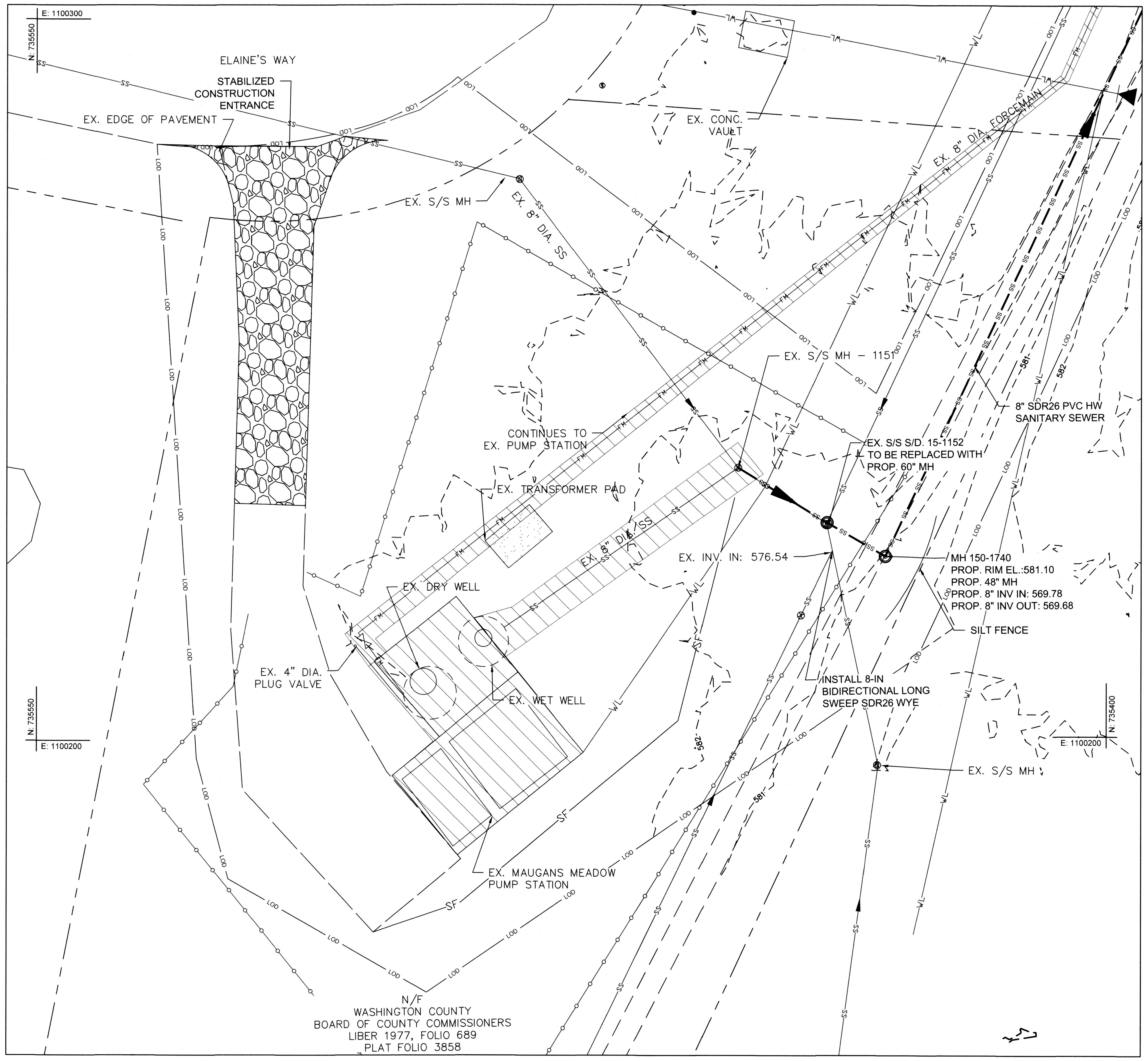
E&S CONTROL PLAN I

EA Engineering, Science, and Technology, Inc., PBC
Hunt Valley Center
225 Schilling Circle, Suite 400
Hunt Valley, Maryland 21031
(410) 584-7000

DATE: APRIL 2022
PROJECT NUMBER: 1556701

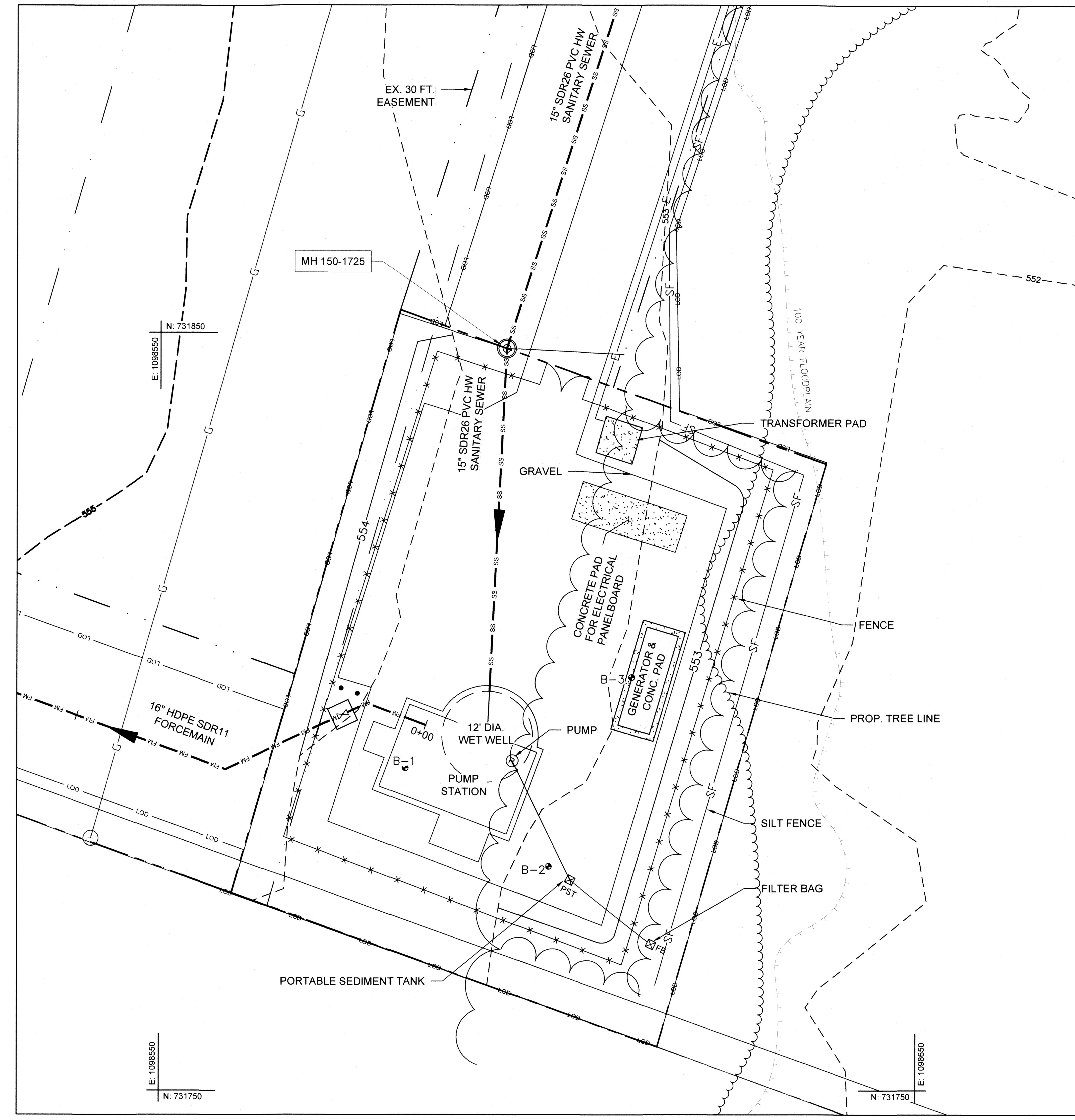
C-132
SHEET: 35 OF 76

SP-21-025 / SWCP-21-020



INSET 1: MAUGANS MEADOWS PUMP STATION
SCALE: 1" = 10'

MAUGANS MEADOWS PUMP STATION
13500 ELAINE'S WAY
HAGERSTOWN, MD 21740



INSET 2: NEW REGIONAL PUMP STATION
SCALE: 1" = 10'

NEW REGIONAL PUMP STATION
13240 CEARFOSS PIKE,
HAGERSTOWN, MD 21740

0 5 10 20
GRAPHIC SCALE IN FEET

REVISIONS

NO.	DATE	BY	DESCRIPTION

DESIGN INFORMATION
DESIGNED BY: RCI/SMD
DRAWN BY: SMB/CAG/JRG
CHECKED BY: MP
PROJECT MANAGER: RCI

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 15453 EXPIRATION DATE: 7/02/2023

SEAL

WASHINGTON COUNTY DEPARTMENT OF ENGINEERING SERVICES
16232 ELLIOTT PARKWAY
WILLIAMSPORT, MD 21795
WASHINGTON COUNTY, MARYLAND

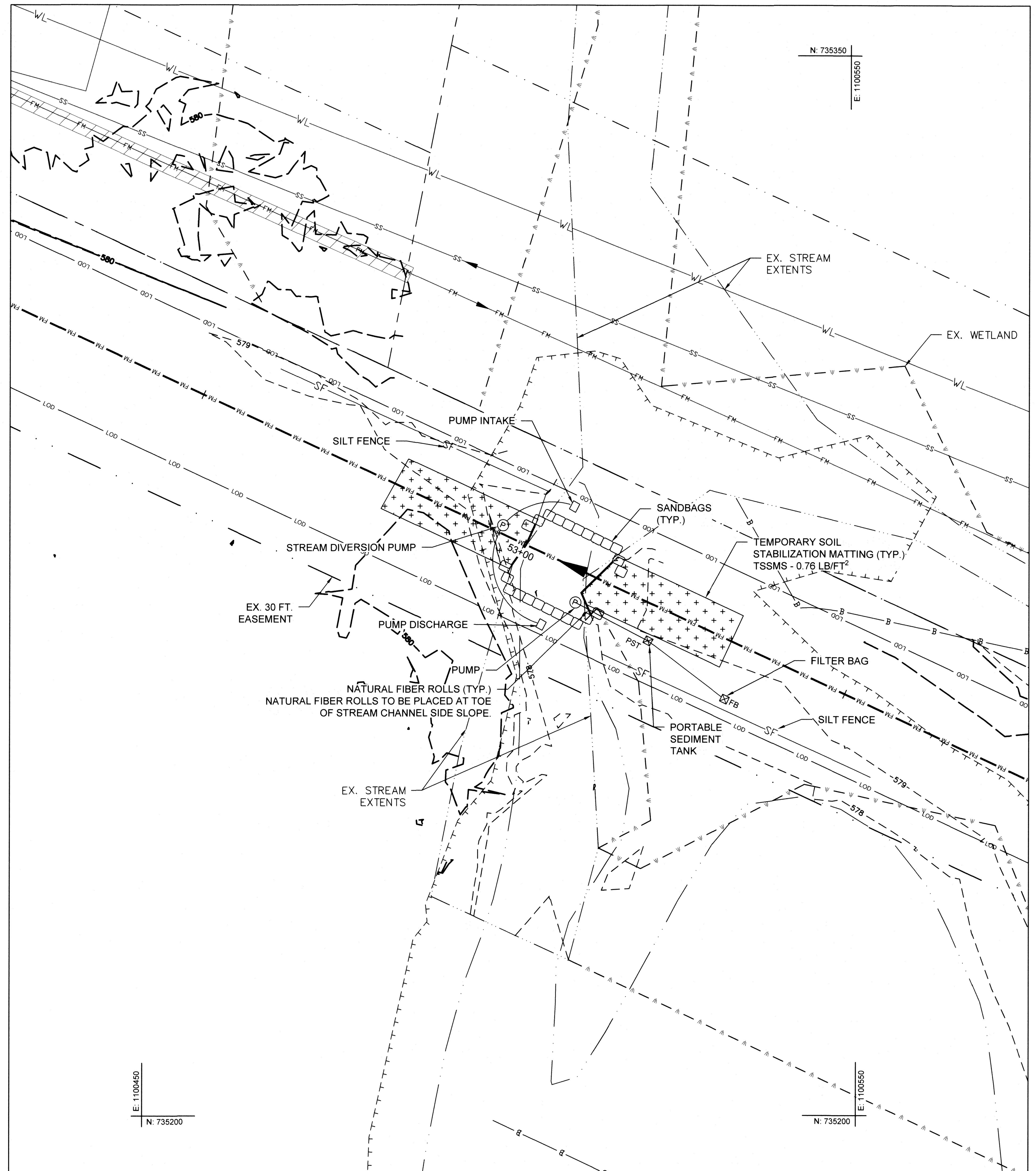
E&S CONTROL PLAN II

EA Engineering, Science, and Technology, Inc., PBC
Hunt Valley Center
225 Schilling Circle, Suite 400
Hunt Valley, Maryland 21031
(410) 584-7000

DATE: APRIL 2022
PROJECT NUMBER: 1556701

C-133
SHEET: 36 OF 76

SP-21-025 / SWCP-21-020

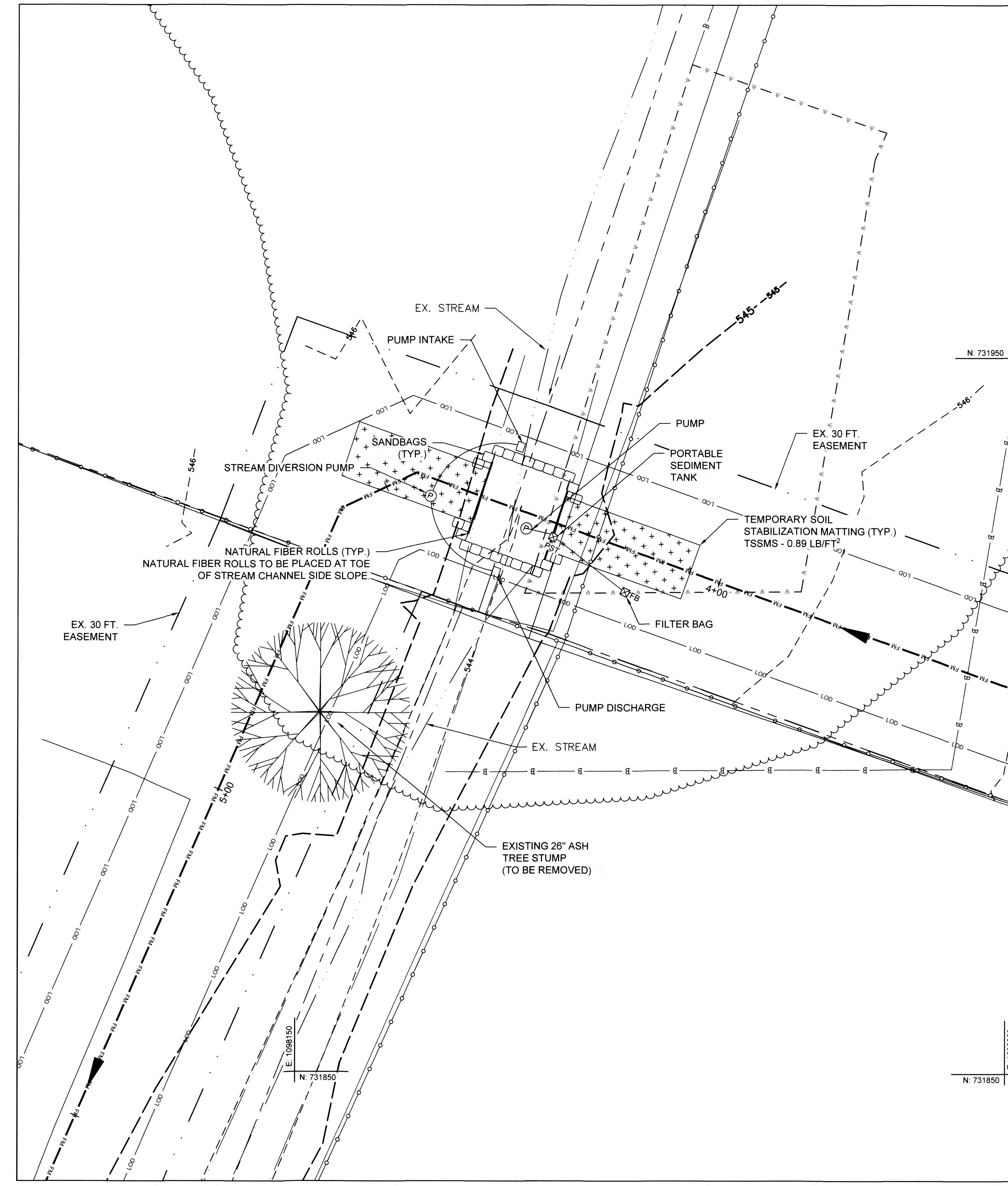


INSET 1: PUMP AROUND AT MAUGANS MEADOWS

SCALE: 1" = 10'

PUMP AROUND SEQUENCE OF CONSTRUCTION:

1. NOTIFY MDE COMPLIANCE DIVISION 5 DAYS BEFORE THE START OF CONSTRUCTION IN THIS AREA.
2. PERFORM IN-STREAM CONSTRUCTION DURING A PERIOD OF EXPECTED CLEAR WEATHER.
3. IMPLEMENT EROSION AND SEDIMENT CONTROLS AS SHOWN.
4. IMPLEMENT DEWATERING MEASURES AND STREAM DIVERSION PUMP AROUND PER STANDARD DETAIL SHOWN ON DRAWING C-514.
5. INSTALL PROPOSED SEWER MAIN AS SHOWN ON DRAWINGS AND REESTABLISH STREAM BANKS.
6. IMPLEMENT SLOPE PROTECTION AND STABILIZATION FOR STREAM BED REPAIR INCLUDING FIBER ROLLS AND TEMPORARY SOIL STABILIZATION MATTING IN ACCORDANCE WITH STANDARD DETAILS ON DRAWING C-514. SEE MARYLAND'S GUIDE TO WATERWAY CONSTRUCTION DETAIL INCLUDED ON DRAWING C-514.
7. WITH PERMISSION OF THE MDE INSPECTOR AS NECESSARY, REMOVE DIVERSION AND DEWATERING MEASURES.
8. PERMANENTLY STABILIZE ANY DISTURBED AREAS.



INSET 2: PUMP AROUND AT BARBARA HOFFMAN PROPERTY

SCALE: 1" = 10'

PUMP AROUND SEQUENCE OF CONSTRUCTION:

1. NOTIFY MDE COMPLIANCE DIVISION 5 DAYS BEFORE THE START OF CONSTRUCTION IN THIS AREA.
2. PERFORM IN-STREAM CONSTRUCTION DURING A PERIOD OF EXPECTED CLEAR WEATHER.
3. IMPLEMENT EROSION AND SEDIMENT CONTROLS AS SHOWN.
4. IMPLEMENT DEWATERING MEASURES AND STREAM DIVERSION PUMP AROUND PER STANDARD DETAIL SHOWN ON DRAWING C-514.
5. INSTALL PROPOSED SEWER MAIN AS SHOWN ON DRAWINGS AND REESTABLISH STREAM BANKS.
6. IMPLEMENT SLOPE PROTECTION AND STABILIZATION FOR STREAM BED REPAIR INCLUDING FIBER ROLLS AND TEMPORARY SOIL STABILIZATION MATTING IN ACCORDANCE WITH STANDARD DETAILS ON DRAWING C-514. SEE MARYLAND'S GUIDE TO WATERWAY CONSTRUCTION DETAIL INCLUDED ON DRAWING C-514.
7. WITH PERMISSION OF THE MDE INSPECTOR AS NECESSARY, REMOVE DIVERSION AND DEWATERING MEASURES.
8. PERMANENTLY STABILIZE ANY DISTURBED AREAS.

0 5 10 20
GRAPHIC SCALE IN FEET

REVISIONS

NO.	DATE	BY	DESCRIPTION

DESIGN INFORMATION
DESIGNED BY: RCI/SMD
DRAWN BY: SMB/CAG/JRG
CHECKED BY: MP
PROJECT MANAGER: RCI

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 15453 EXPIRATION DATE: 7/02/2023

SEAL

WASHINGTON COUNTY DEPARTMENT OF ENGINEERING SERVICES
16232 ELLIOTT PARKWAY
WILLIAMSPORT, MD 21795
WASHINGTON COUNTY, MARYLAND

E&S CONTROL PLAN III

EA Engineering, Science, and Technology, Inc., PBC
Hunt Valley Center
225 Schilling Circle, Suite 400
Hunt Valley, Maryland 21031
(410) 584-7000

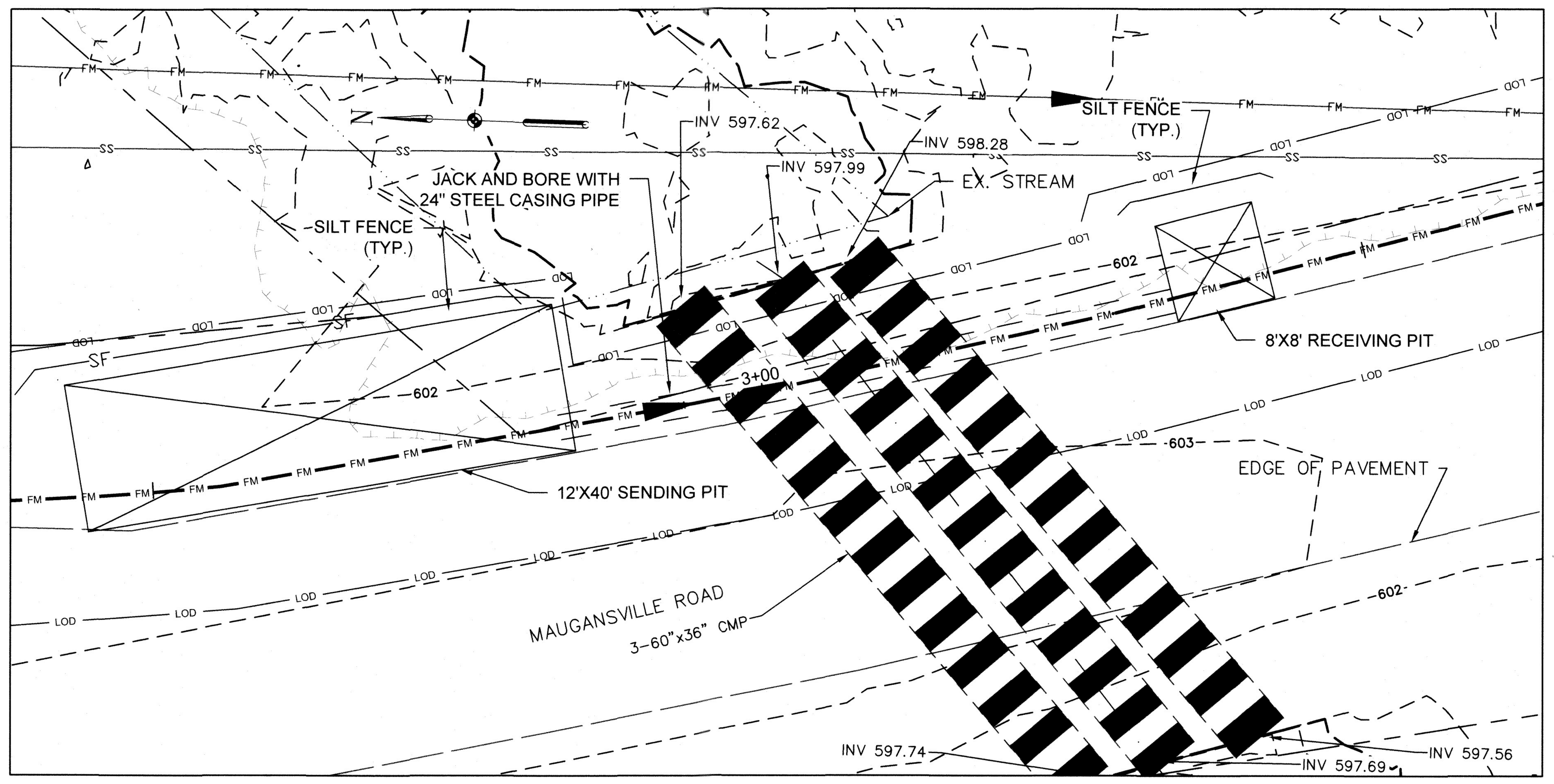
DATE: APRIL 2022

PROJECT NUMBER: 1556701

C-134

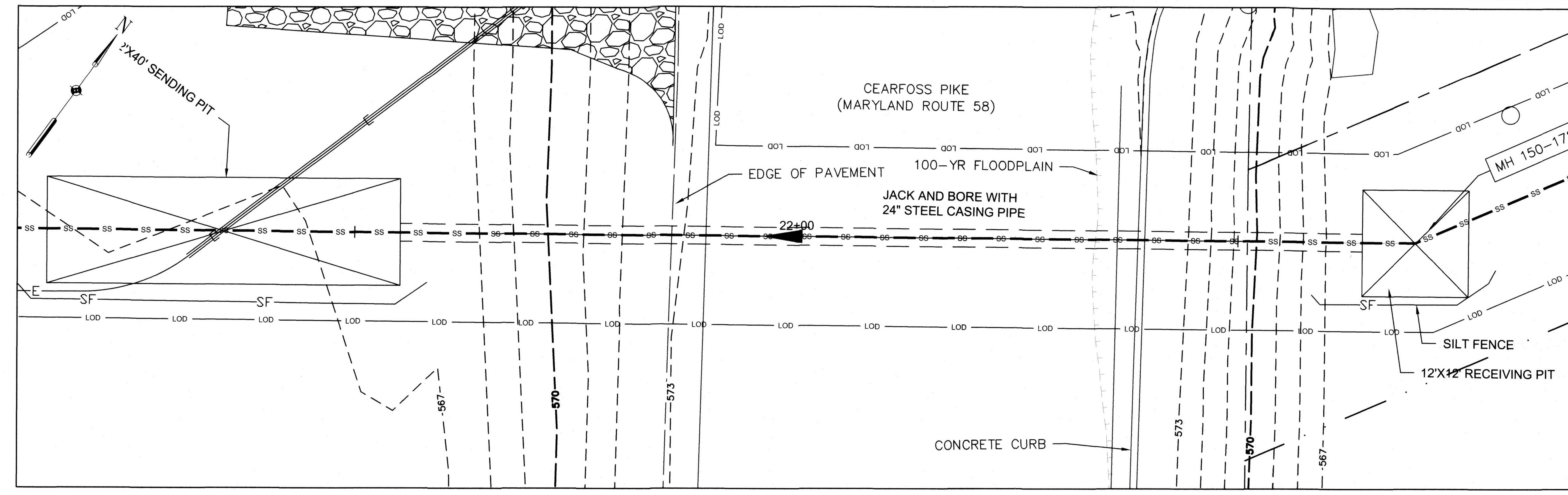
SHEET: 37 OF 76

SP-21-025 / SWCP-21-020



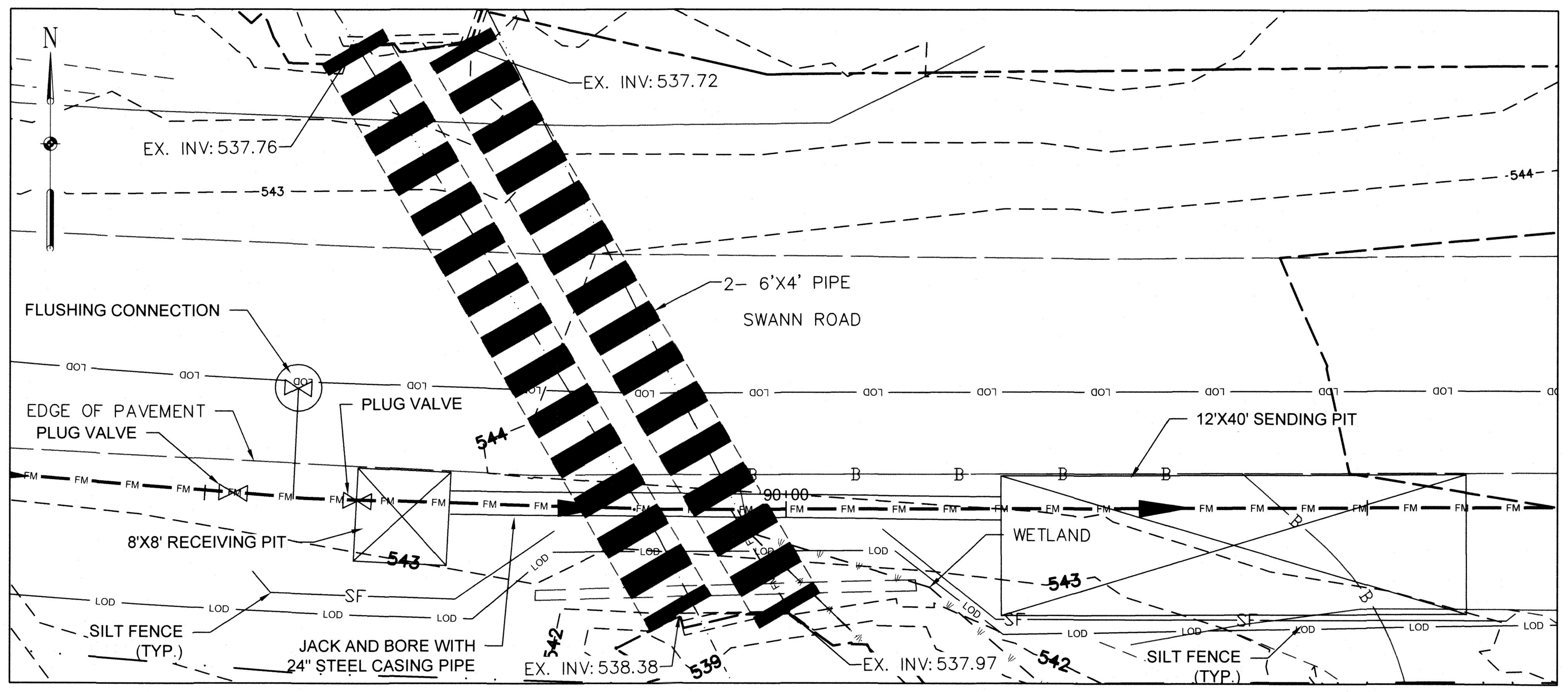
INSET 1: JACK AND BORE AT MAUGANSVILLE ROAD

SCALE: 1" = 10'



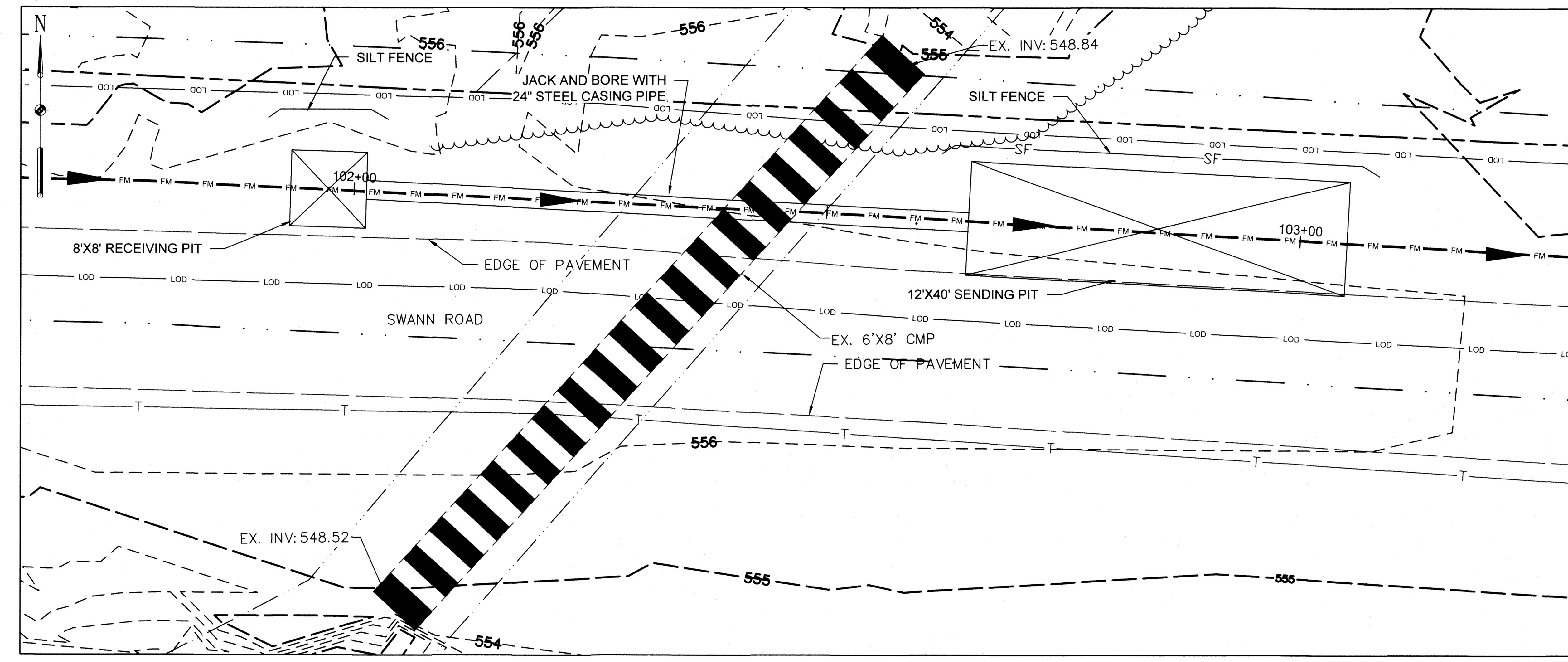
INSET 2: JACK AND BORE AT CEARFOSS PIKE

SCALE: 1" = 10'



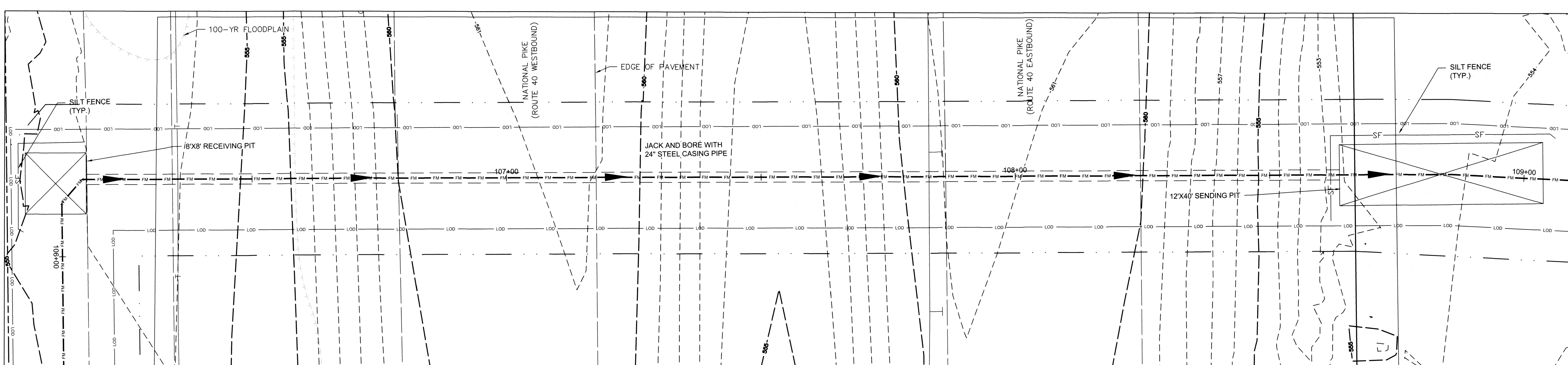
INSET 3: JACK AND BORE AT SWANN ROAD I

SCALE: 1" = 10'



INSET 4: JACK AND BORE AT SWANN ROAD II

SCALE: 1" = 10'



INSET 5: JACK AND BORE AT ROUTE 40

SCALE: 1" = 10'

NOTE:

1. JACK AND BORE SENDING AND RECEIVING PIT SIZES SHOWN THIS SHEET ARE APPROXIMATE. CONTRACTOR SHALL MINIMIZE DRILL PIT SIZE, AND SHALL ENSURE EROSION AND SEDIMENT CONTROLS ARE IN PLACE AS NECESSARY TO MINIMIZE SEDIMENT LADEN WATER LEAVING THE WORK AREA.

0 2.5 5 10

GRAPHIC SCALE IN FEET

REVISIONS: NO. | DATE | BY | DESCRIPTION

DESIGN INFORMATION: DESIGNED BY: RCI/SMD; DRAWN BY: SMB/CAG/JRG; CHECKED BY: MP; PROJECT MANAGER: RCI

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 15453 EXPIRATION DATE: 7/02/2023

SEAL

WASHINGTON COUNTY DEPARTMENT OF ENGINEERING SERVICES

16232 ELLIOTT PARKWAY
WILLIAMSPORT, MD 21795

WASHINGTON COUNTY, MARYLAND

E&S CONTROL PLAN IV

EA Engineering, Science, and Technology, Inc., PBC
Hunt Valley Center
225 Schilling Circle, Suite 400
Hunt Valley, Maryland 21031
(410) 584-7000

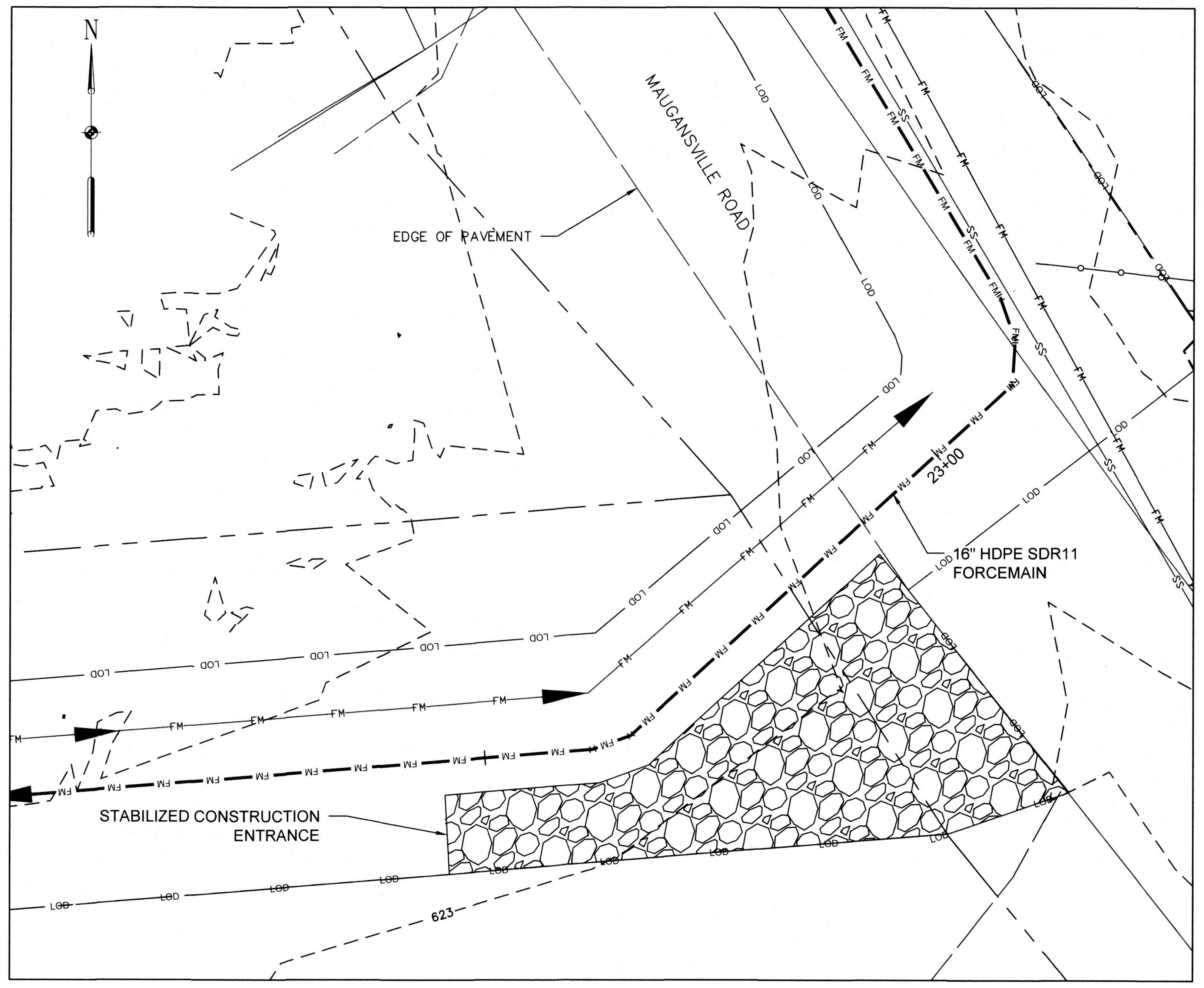
DATE: APRIL 2022

PROJECT NUMBER: 1556701

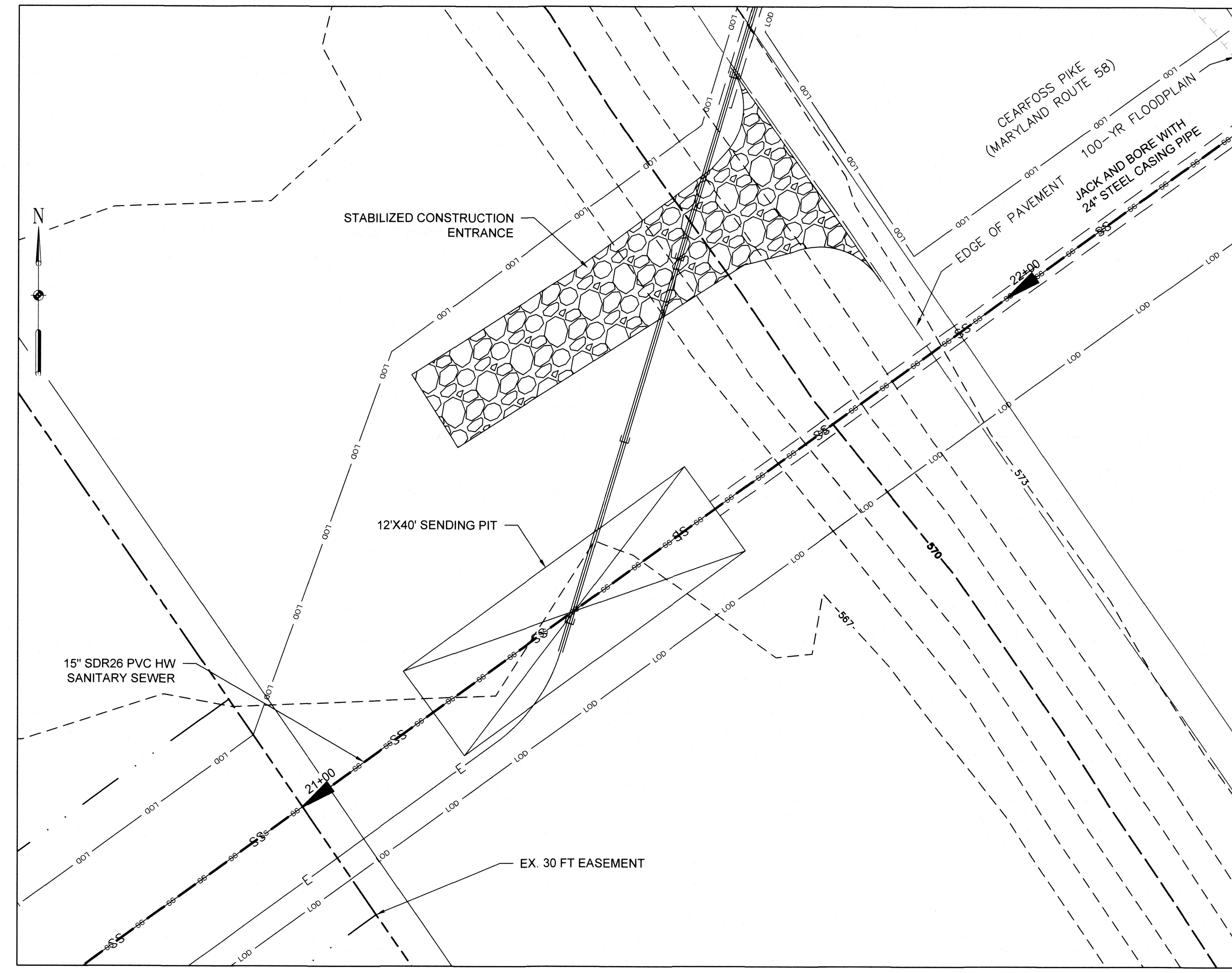
C-135

SHEET: 38 OF 76

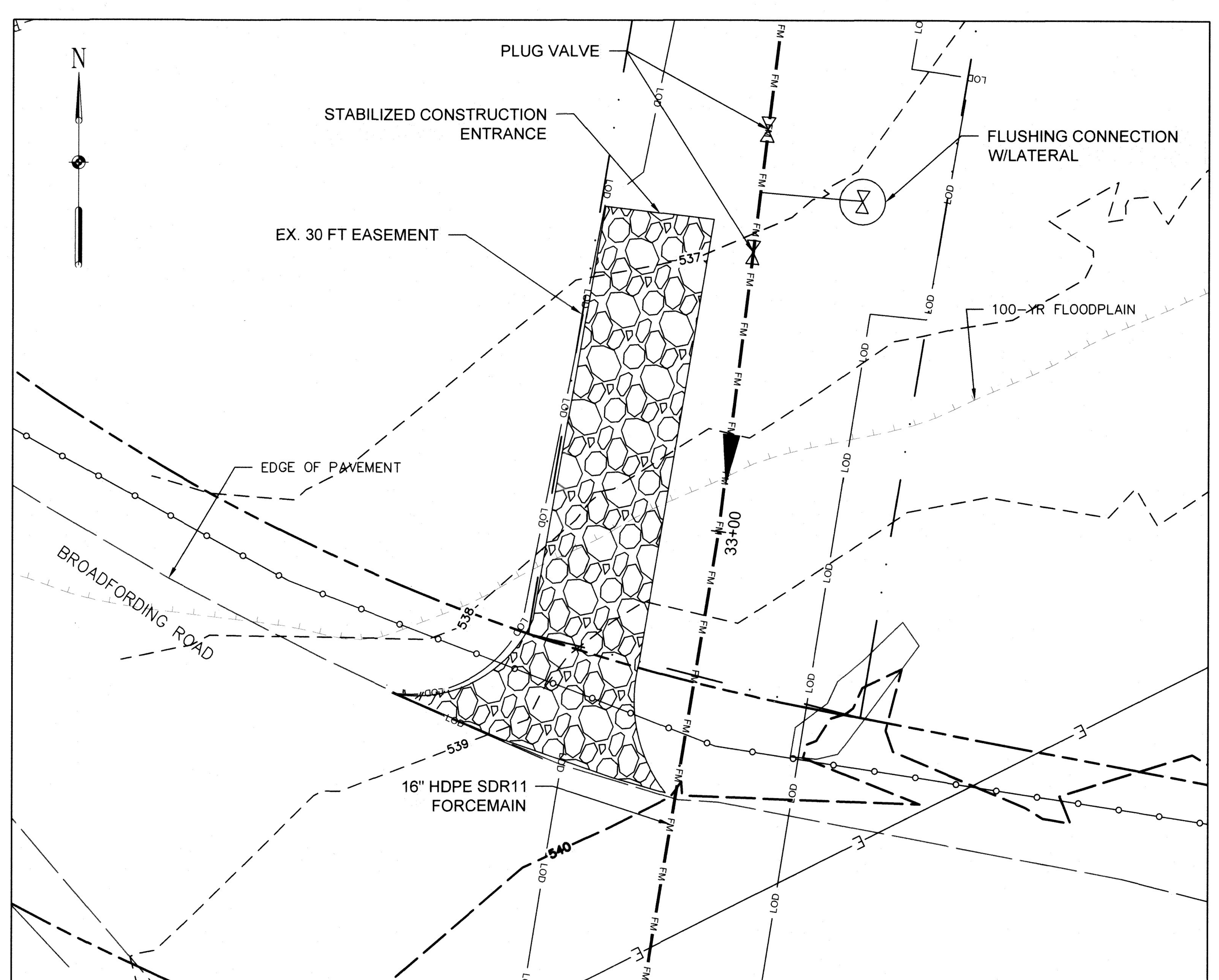
SP-21-025 / SWCP-21-020



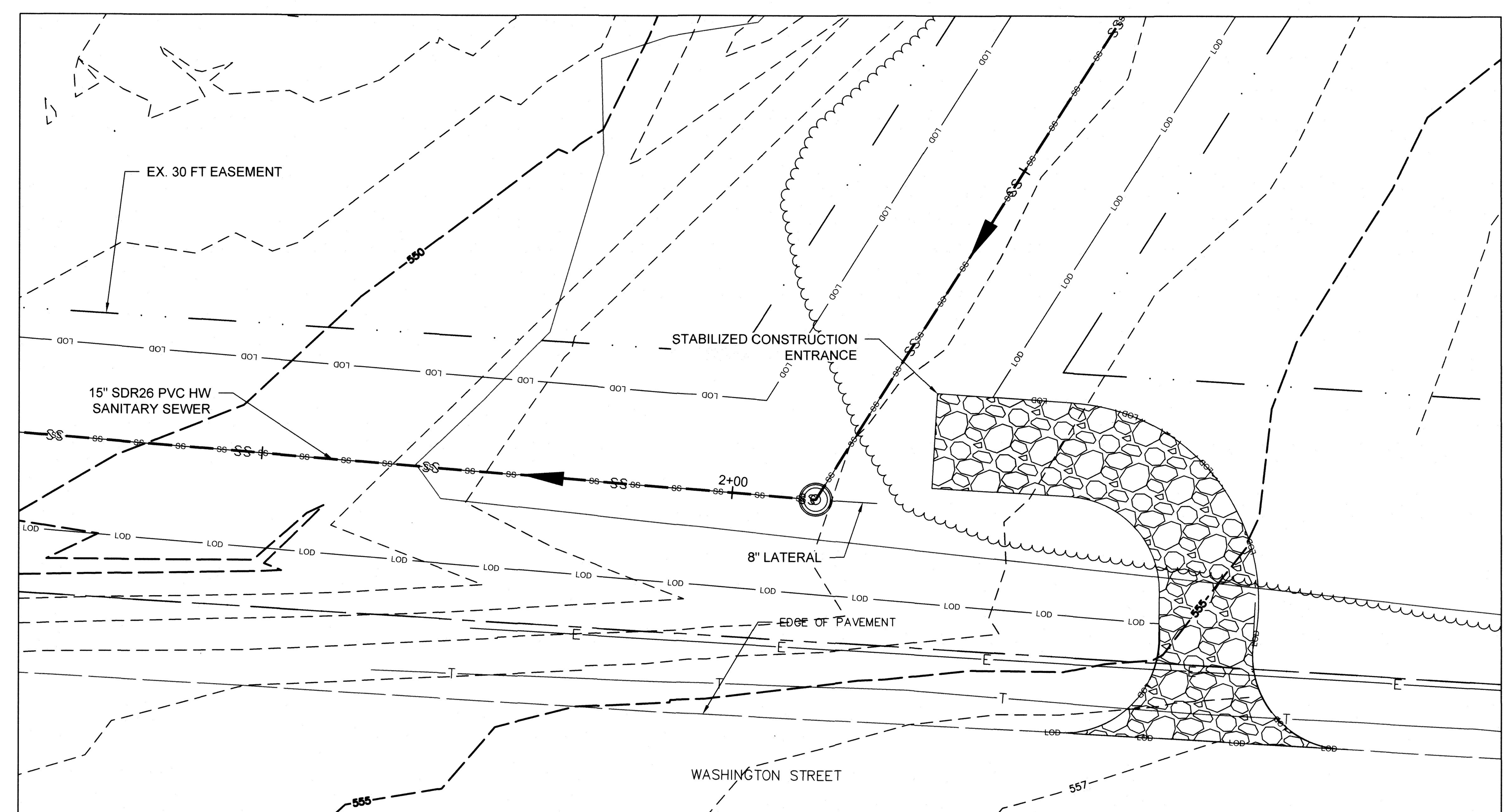
INSET 1: STABILIZED CONSTRUCTION ENTRANCE
SCALE: 1" = 10'



INSET 2: STABILIZED CONSTRUCTION ENTRANCE
SCALE: 1" = 10'



INSET 3: STABILIZED CONSTRUCTION ENTRANCE
SCALE: 1" = 10'



INSET 4: STABILIZED CONSTRUCTION ENTRANCE
SCALE: 1" = 10'

N

0 5 10 20
GRAPHIC SCALE IN FEET

FILE PATH: \\LOVETON\CAD\PROJECTS\1556701 - WASHINGTON CO. FMCAD\PRODUCTION\DESIGN SET\1556701 - E&S DESIGN.DWG [C-136] PERRY, JEFF 4/29/2022 2:46 PM

REVISIONS

NO.	DATE	BY	DESCRIPTION

DESIGN INFORMATION
DESIGNED BY: RCI/SMD
DRAWN BY: SMB/CAG/JRG
CHECKED BY: MP
PROJECT MANAGER: RCI

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SEAL

STATE OF MARYLAND
PROFESSIONAL ENGINEER

WASHINGTON COUNTY DEPARTMENT OF ENGINEERING SERVICES
16232 ELLIOTT PARKWAY
WILLIAMSPORT, MD 21795
WASHINGTON COUNTY, MARYLAND

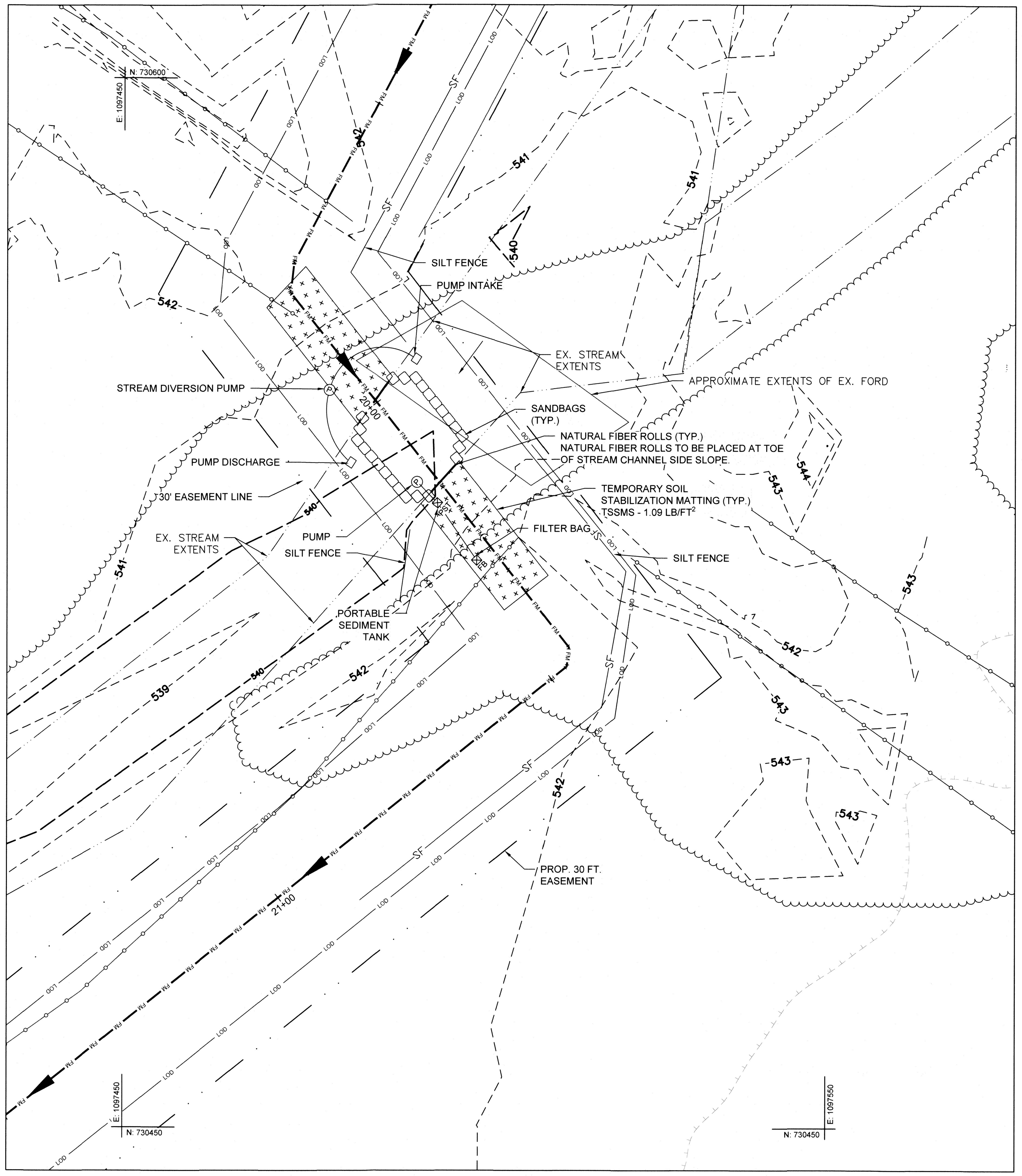
E&S CONTROL PLAN V

EA Engineering, Science, and Technology, Inc., PBC
Hunt Valley Center
225 Schilling Circle, Suite 400
Hunt Valley, Maryland 21031
(410) 584-7000

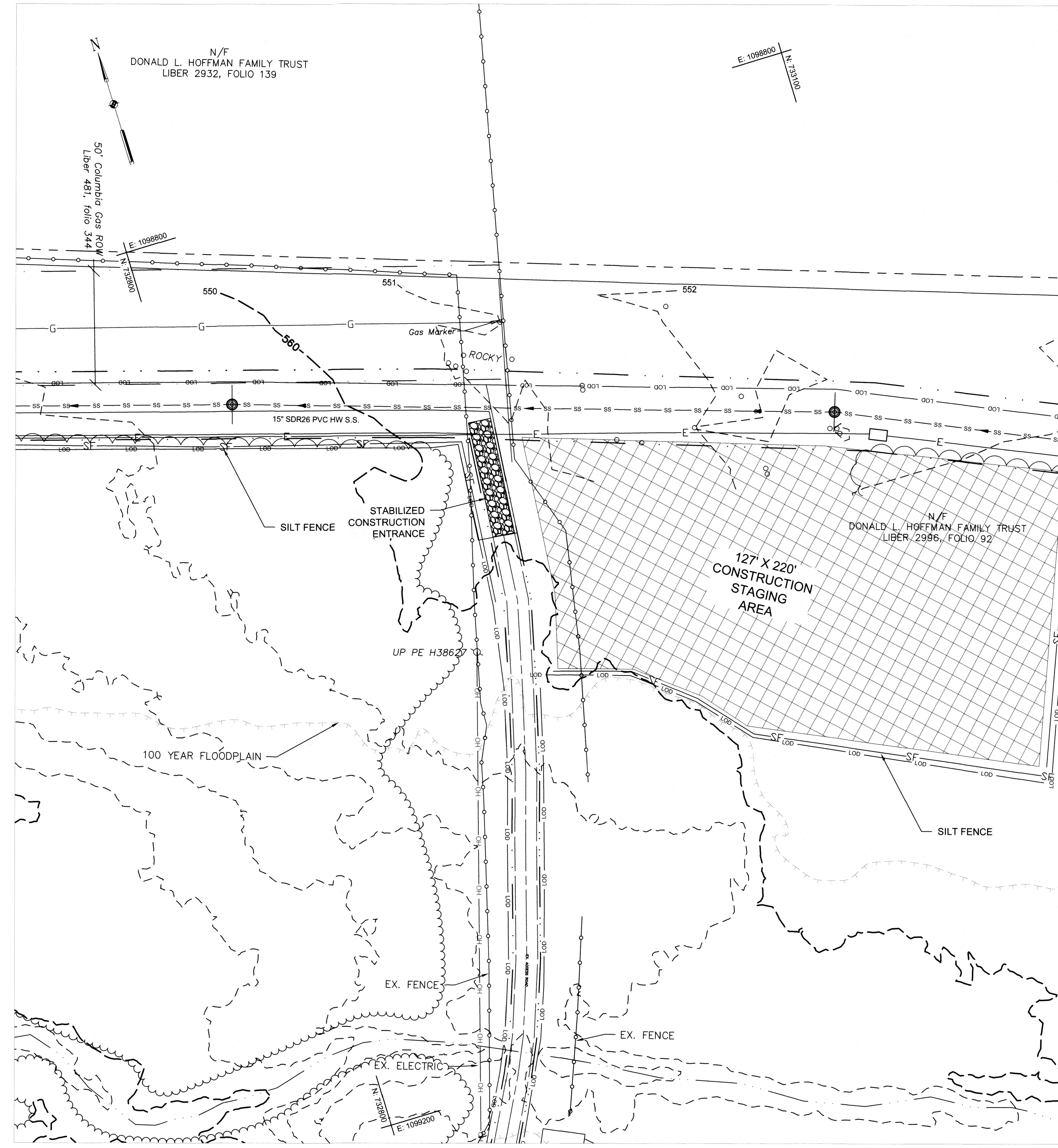
DATE: APRIL 2022
PROJECT NUMBER: 1556701

C-136
SHEET: 39 OF 76

SP-21-025 / SWCP-21-020



INSET 1: PUMP AROUND AT BOSTETTER PROPERTY
SCALE: 1" = 10'



INSET 2: CONSTRUCTION STAGING AREA @ DON HUFFMAN PROPERTY
SCALE: 1" = 30'

PUMP AROUND SEQUENCE OF CONSTRUCTION:

1. NOTIFY MDE COMPLIANCE DIVISION 5 DAYS BEFORE THE START OF CONSTRUCTION IN THIS AREA.
2. PERFORM IN-STREAM CONSTRUCTION DURING A PERIOD OF EXPECTED CLEAR WEATHER.
3. IMPLEMENT EROSION AND SEDIMENT CONTROLS AS SHOWN.
4. IMPLEMENT DEWATERING MEASURES AND STREAM DIVERSION PUMP AROUND PER STANDARD DETAIL SHOWN ON DRAWING C-514.
5. INSTALL PROPOSED SEWER MAIN AS SHOWN ON DRAWINGS AND REESTABLISH STREAM BANKS.
6. IMPLEMENT SLOPE PROTECTION AND STABILIZATION FOR STREAM BED REPAIR INCLUDING FIBER ROLLS AND TEMPORARY SOIL STABILIZATION MATTING IN ACCORDANCE WITH STANDARD DETAILS ON DRAWING C-514. SEE MARYLAND'S GUIDE TO WATERWAY CONSTRUCTION DETAIL INCLUDED ON DRAWING C-514.
7. WITH PERMISSION OF THE MDE INSPECTOR AS NECESSARY, REMOVE DIVERSION AND DEWATERING MEASURES.
8. PERMANENTLY STABILIZE ANY DISTURBED AREAS.

0 5 10 20
GRAPHIC SCALE IN FEET

REVISIONS

NO.	DATE	BY	DESCRIPTION

DESIGN INFORMATION
DESIGNED BY: RCI/SMD
DRAWN BY: SMB/CAG/JRG
CHECKED BY: MP
PROJECT MANAGER: RCI

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SEAL

WASHINGTON COUNTY DEPARTMENT OF ENGINEERING SERVICES
16232 ELLIOTT PARKWAY
WILLIAMSPORT, MD 21795
WASHINGTON COUNTY, MARYLAND

E&S CONTROL PLAN IV

EA Engineering, Science, and Technology, Inc., PBC
Hunt Valley Center
225 Schilling Circle, Suite 400
Hunt Valley, Maryland 21031
(410) 584-7000

DATE: APRIL 2022
PROJECT NUMBER: 1556701

C-137
SHEET: 40 OF 76

SP-21-025 / SWCP-21-020