AXIS
ENGINEERING CONSULTANTS
LEESBURG★VALDOSTA★WARNER ROBINS

SITE DEVELOPMENT PLANS

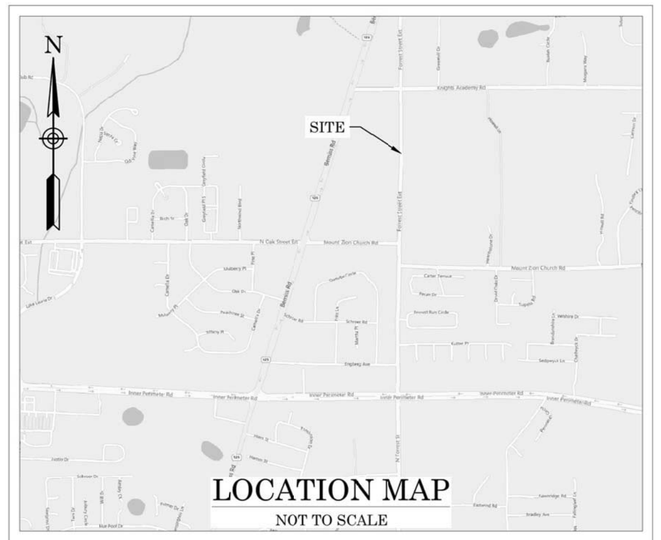
FOR

KAR LIFT STATION

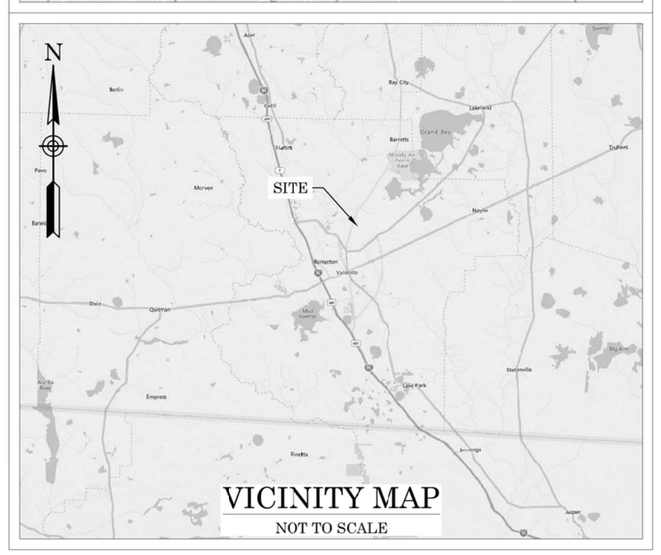
VALDOSTA, LOWNDES COUNTY, GEORGIA

PREPARED FOR:

CITY OF VALDOSTA



LOCATION MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE

SITE DATA TABLE	
OWNER DEVELOPER	CITY OF VALDOSTA 300 NORTH LEE STREET VALDOSTA, GA 31602 (229) 259-3530 bodowd@valdostacity.com
PROJECT LOCATION	N FORREST ST EXT VALDOSTA, GA 31605
TAX MAP & PARCEL NUMBER	N/A: Road is County maintained
LAND LOT / LAND DISTRICT	LAND LOT #102 / 11TH LAND DISTRICT
ZONING / LAND USE	PUBLIC ROW
PROJECT LENGTH	1.32 MILES
IMPERVIOUS AREA	N/A
PROPOSED USE	SANITARY SEWER LIFT STATION
BUILDING AREA	N/A
DISTURBED AREA	2.1 ACRES

DATE:
AUGUST 2025

Sheet List Table	
Sheet Number	Sheet Title
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C3.19	SITE PLUMBING AND ELECTRICAL PLAN
C4.0 - C4.8	EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN
C5.0 - C5.2	EROSION, SEDIMENTATION, & POLLUTION CONTROL NOTES
C6.0 - C6.4	CONSTRUCTION DETAILS
C7.0	EROSION, SEDIMENTATION, & POLLUTION CONTROL DETAILS

I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORMWATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR100001.

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

0000000885	10/1/2025
LEVEL II DESIGN PERSONNEL	LEVEL II CERTIFICATION NO. DATE

GEORGIA811
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Z:\Shared\AEC\Projects\2025\25-25058 Knights Academy Rd Lift Station Valdosta, GA\DWG\62082C_A01.dwg - 10/1/2025 2:21 PM

AXIS
ENGINEERING CONSULTANTS
LEESBURG★VALDOSTA★WARNER ROBINS

GEORGIA
AXIS ENGINEERING CONSULTANTS
PEF009117
06/30/2026
CERTIFICATE OF AUTHORIZATION

GEORGIA
REGISTERED
No. PE039411
PROFESSIONAL
10/1/2025
ENGINEER
B. MATTHEW INMAN

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

B. Matthew Inman
Level II Certified Design Professional

Certification Number: 0000000885
Issued 06/01/2022 Expires: 06/01/2025

AEC PROJECT NUMBER
25-25058
DATE OF PLANS
8/5/2025
REVISIONS

NO.	DATE	DESCRIPTION
1	10/1/2025	REV. PER CITY COMMENTS
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
9	-	-
10	-	-

KAR LIFT STATION
CITY OF VALDOSTA

PROJECT COVER

VALDOSTA, LOWNDES COUNTY, GEORGIA

NOT TO SCALE

SHEET
C1.0 OF 40

GENERAL PROJECT NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING ALL REQUIRED PERMITS ARE OBTAINED PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE LOCAL AUTHORITY HAVING JURISDICTION AND / OR THE LOCAL DEPARTMENT OF TRANSPORTATION.
2. THE CONTRACTOR SHALL REVIEW ALL CONSTRUCTION DOCUMENTS AND REPORTS TO BECOME FAMILIAR WITH THE PROPOSED PROJECT. THE CONTRACTOR SHALL OBTAIN FIRST HAND KNOWLEDGE OF THE PROJECT AREA
3. ALL DATA SHOWN HEREON ARE BASED UPON FIELD INVESTIGATION AND / OR ENGINEERS KNOWLEDGE OF THE PROJECT AREA. THIS DATA SHALL BE USED AS INFORMATION ONLY AND IN NO WAY GUARANTEE OR BIND THE ENGINEER AS TO ACTUAL FIELD CONDITIONS.
4. UNDERGROUND UTILITY INFORMATION SHOWN HEREON ARE BASED ON ABOVE GROUND STRUCTURES AND / OR GROUND MARKINGS BY OTHERS. THE ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THE UNDERGROUND UTILITY INFORMATION SHOWN HEREON.
5. THE CONTRACTOR SHALL PROVIDE 72 HOUR NOTICE TO THE UTILITIES PROTECTION CENTER PRIOR TO CONSTRUCTION COMMENCEMENT OR EXCAVATION. THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION FOR ALL EXISTING UTILITIES WITHIN THE CONSTRUCTION AREA AND REPAIR ANY UTILITIES DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER/DEVELOPER. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING FOR ALL VARIATIONS / DISCREPANCIES IN UTILITY INFORMATION SHOWN HEREON.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN INTERPRETATION OF ALL SURFACE AND SUBSURFACE CONDITIONS AS RELATED TO THE PROJECT SCOPE FOR EXACTING AND GRADING OF THE PROJECT AREA. THE CONTRACTOR SHALL MAKE HIS/HER OWN DETERMINATION OF SUITABLE FILL / WASTE MATERIAL AS RECOMMENDED BY THE GEOTECHNICAL REPORT.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL FILL MATERIAL. FILL MATERIAL SHALL BE CLEAN AND FREE OF ALL DEBRIS AND ORGANIC MATERIAL.
8. THE CONTRACTOR SHALL NOTIFY THE ENGINEER WITHIN 24 HOURS OF ANY VARIATIONS, DISCREPANCIES, AND / OR CONFLICTS FOR ALL INFORMATION SHOWN HEREON AND / OR UNSATISFACTORY FIELD CONDITIONS AS RELATED TO THE PROJECT SCOPE. NO WORK SHALL COMMENCE UNTIL VARIATIONS, DISCREPANCIES, CONFLICTS, AND UNSATISFACTORY FILED CONDITIONS ARE RESOLVED.
9. CONTRACTOR TO ENSURE ALL WORK PITS ARE COVERED WHEN NOT IN ATTENDANCE.

PROJECT SITE NOTES:

11. THE TOPOGRAPHIC WAS PROVIDED BY CARTER SURVEYING, LLC AND DATED MARCH 23, 2023. A COPY CAN BE PROVIDED UPON WRITTEN REQUEST.
12. REPORTS:
    - A. NO GEOTECHNICAL INVESTIGATION HAS BEEN PERFORMED FOR THE PROJECT AREA. THE CONTRACTOR SHALL NOTIFY THE ENGINEER WITHIN 24 HOURS OF ANY UNSUITABLE SUBSURFACE MATERIAL ENCOUNTERED DURING CONSTRUCTION.
    - B. NO ENVIRONMENTAL ASSESSMENT HAS BEEN PERFORMED FOR THE PROJECT AREA. THE CONTRACTOR SHALL NOTIFY THE ENGINEER WITHIN 24 HOURS OF ANY ENVIRONMENTAL CONCERN ENCOUNTERED WITHIN THE PROJECT AREA.
    - C. NO ACM SURVEY HAS BEEN PERFORMED. THE CONTRACTOR SHALL TAKE CARE WHEN HANDLING ANY MATERIAL SUSPECTED TO CONTAIN ASBESTOS. THE CONTRACTOR SHALL PROPERLY DISPOSE OF ALL MATERIAL CONTAINING ASBESTOS.
3. THE PROPOSED PROJECT CONSIST OF THE CONSTRUCTION OF A SANITARY SEWER LIFT STATION AND ASSOCIATED SANITARY SEWER MAIN EXTENSIONS.
4. THE PROPOSED DEVELOPMENT IS LOCATED AT N FORREST ST EXT, VALDOSTA, GA 31605. HORIZONTAL DATA SHOWN HEREON IS BASED ON NAD83 GEORGIA STATE PLANES, WEST ZONE, US FOOT. VERTICAL DATA SHOWN HEREON IS BASED ON NAVD 88(12B).
5. THE TOTAL PROJECT AREA/LENGTH IS 1.32 MILES: WITH A DISTURBED AREA OF 2.1 ACRES.
6. WETLANDS HAVE BEEN IDENTIFIED WITHIN 200 FT OF THE PROJECT AREA. A WETLAND INVENTORY MAP CAN BE PROVIDED UPON WRITTEN REQUEST.
7. STATE WATERS HAVE BEEN IDENTIFIED WITHIN 200 FT OF THE PROJECT AREA.
8. THE RECEIVING WATERS FOR THIS PROJECT HAVE BEEN IDENTIFIED AS TRIBUTARY OF CHERRY CREEK AND WETLAND AREAS WITHIN THE AREA.
9. NO IMPAIRED WATERS HAVE BEEN IDENTIFIED WITHIN 1 MILE OF THE PROJECT AREA.
10. THE PROPERTY SHOWN HEREON IS LOCATED IN FLOOD ZONE X AS PER FLOOD INSURANCE RATE MAP FOR VALDOSTA, LOWNDES COUNTY, GEORGIA, AND SHOWN ON MAP NO. 13185C0120E, WITH AN EFFECTIVE DATE OF 9/26/2008. FLOOD ZONE X DENOTES AREA OF MINIMAL FLOOD HAZARD.

PROJECT CONTACTS:

1. OWNER / DEVELOPER:
   CITY OF VALDOSTA
   300 NORTH LEE STREET
   VALDOSTA, GA 31602
   PHONE: (229) 259-3530
   bodowd@valdostacity.com
2. ENGINEER OF RECORD:
   MATTHEW INMAN, PE
   AXIS ENGINEERING CONSULTANTS, LLC.
   2704 NORTH OAK STREET, BUILDING P
   VALDOSTA, GA 31602
   PHONE: (229) 638-8595
   minman@aeconllc.net
3. PROJECT MANAGER:
   JESSE MITCHELL, PE
   AXIS ENGINEERING CONSULTANTS, LLC.
   2704 NORTH OAK STREET, BUILDING P
   VALDOSTA, GA 31602
   PHONE: (229) 800-4502
   jmitchell@aeconllc.net
4. 24-HOUR EROSION, SEDIMENTATION, & POLLUTION CONTROL CONTACT:
   BENJAMIN O'DOWD, PE
   (229) 259-3530

PROPOSED LINE LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY
- EASEMENT
- SETBACK / BUFFER
- OVERHEAD ELECTRIC — P —
- OVERHEAD TELEPHONE — T —
- OVERHEAD COMMUNICATION — COM —
- OVERHEAD TRAFFIC SIGNAL — TS —
- UNDERGROUND ELECTRIC — P — P —
- UNDERGROUND TELEPHONE — T — T —
- UNDERGROUND COMMUNICATION — COM —
- UNDERGROUND TRAFFIC SIGNAL — TS — TS —
- BUILDING LINE
- SANITARY SEWER — SS —
- SANITARY SEWER FORCE MAIN — FM —
- STORM SEWER
- WATER LINE — W —
- NATURAL GAS — GAS — GAS —
- SURFACE MAJOR CONTOUR
- SURFACE MINOR CONTOUR
- DITCH / SWALE — >> — >> —
- ORANGE CONSTRUCTION FENCE
- SILT FENCE — X — X —
- LIMITS OF DISTURBANCE

PROPOSED SYMBOL LEGEND

- POWER POLE, LIGHT POLE (PP, LP)
- BACK FLOW PREVENTER (RPZ, DDCV)
- FIRE DEPT. CONNECTION / POST INDICATOR VALVE (FDC, PIV)
- FIRE HYDRANT / HOSE BIBB (HYD, HB)
- METERS (WM, GM)
- VALVES (WV, GV)
- CLEANOUT (ST CO, SS CO)
- MANHOLES (STMH, SSMH)
- GRATE INLETS (GI, HGI) 2'x2' 2'x2'
- CURB INLETS (DWCI, SWCI)
- FLARED/SAFTY END SECTION (FES, SES)
- HEADWALL (HW)
- OUTLET CONTROL STRUCTURE (OCS)
- SIGNS
- DIRECTIONAL TRAFFIC ARROWS
- BOLLARD

CITY OF VALDOSTA GENERAL NOTES:

1. THE CONTRACTOR SHALL NOTIFY THE CITY OF VALDOSTA ENGINEERING DEPARTMENT IN WRITING OF THEIR INTENT TO BEGIN WORK 72-HOURS PRIOR TO THE COMMENCEMENT OF EFFORT ON THE PROJECT.
2. ALL WATER, SANITARY SEWER, AND STORM SEWER CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF VALDOSTA STANDARD SPECIFICATIONS FOR UTILITY CONSTRUCTION AS WELL AS THE CITY OF VALDOSTA LAND DEVELOPMENT REGULATIONS.
3. ALL WORK PERFORMED WITHIN THE GEORGIA DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH GDOT STANDARDS AND SPECIFICATIONS.
4. THE CONTRACTOR SHALL MAINTAIN THE WORK AREA IN A CLEAN, SAFE, AND ORDERLY MANNER AND SHALL BE RESPONSIBLE FOR ANY HARM OR DAMAGES CAUSED BY THEIR NEGLIGENCE DURING THE WORK.
5. THE CONTRACTOR SHALL INSTALL PERMANENT GRASSING OVER ALL DISTURBED AREAS FOLLOWING COMPLETION OF THE WORK.
6. THE CONTRACTOR SHALL REMOVE ANY BORE SPOILAGE, SEDIMENT, OR OTHER SIDECAST MATERIAL GENERATED BY OR DURING THE WORK FROM THE WORK AREA AS WELL AS FROM AREAS ADJACENT TO THE WORK AREA.
7. ALL UNDERGROUND UTILITY WORK AND STORM PIPE INSTALLATION MUST BE INSTALLED BY A GA LICENSED UNDERGROUND UTILITY CONTRACTOR.
8. THE UNDERGROUND UTILITIES DEPICTED ON THIS PLAN ARE A SCHEMATIC REPRESENTATION OF FIELD CONDITIONS AND MAY NOT BE PERFECTLY REPRESENTATIVE OF UNDERGROUND UTILITY SIZE, MATERIAL, DEPTH, CONDITION, OR LOCATION.
9. THE CONTRACTOR SHALL FIELD VERIFY ALL UNDERGROUND UTILITY LOCATIONS IN CONFLICT WITH THE PROPOSED WORK PRIOR TO COMMENCEMENT OF THE WORK. IF VARIATIONS ARE IDENTIFIED WHICH MATERIALLY AFFECT THE CONTRACTOR'S ABILITY TO PERFORM THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE OWNER TO RESOLVE THE CONFLICT.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING IN 811 DIG LOCATES FOR UNDERGROUND UTILITIES WITHIN THE WORK AREA PRIOR TO THE COMMENCEMENT OF WORK. IF WORK IS STALLED ON THE PROJECT FOR LONGER THAN 30 DAYS OR IF THE LOCATE MARKINGS ARE REMOVED FOR ANY REASON FROM THE WORK AREA, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING IN AN ADDITIONAL LOCATE PRIOR TO RE-COMMENCEMENT OF WORK.
11. IF THE CONTRACTOR DISCOVERS ANY VARIANCE BETWEEN THE SURVEY PROVIDED AND THE CONDITIONS IN THE FIELD WHICH MATERIALLY AFFECTS THE CONTRACTOR'S ABILITY TO PERFORM THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY.
12. THE CONTRACTOR SHALL MAINTAIN CONTINUAL ACCESS TO PROPERTY IMPACTED BY OR ADJACENT TO THE WORK AREA.
13. THE CONTRACTOR SHALL MAINTAIN CONTINUAL UTILITY SERVICE TO PROPERTY IMPACTED BY OR ADJACENT TO THE WORK AREA.
14. THE CONTRACTOR SHALL ORGANIZE THE WORK AND PROVIDE SUFFICIENT EQUIPMENT SUCH THAT TRAFFIC REMAINS OPEN TO THE PUBLIC. THE CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART VI OF THE MOST RECENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL LIMIT TEMPORARY ROAD AND LANE CLOSURE TIME, AND SHALL SCHEDULE SUCH TEMPORARY CLOSURES DURING TIMES OF LOW TRAFFIC VOLUME.
15. THE CONTRACTOR SHALL MAKE USE OF A TRENCH BOX OR OTHER METHOD OF TRENCH STABILIZATION IN AN EFFORT TO LIMIT EXCAVATION WIDTHS - PARTICULARLY IN DEEP TRENCH DEPTHS. ALL EXCAVATION WORK SHALL MEET LOCAL, STATE AND FEDERAL SAFETY REGULATIONS.
16. THE CONTRACTOR SHALL PROTECT ANY ADJACENT ROADWAY IMPROVEMENTS FROM DAMAGE DURING CONSTRUCTION ACTIVITIES.
17. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING MONUMENTS AND OTHER SURVEY MARKERS. MONUMENTS AND SURVEY MARKERS DESTROYED OR DISPLACED DURING CONSTRUCTION SHALL BE REPLACED BY A LICENSED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
18. UTILITY STRUCTURE TOPS SHOULD HAVE LOCKABLE HINGED COVERS. UTILITY STRUCTURES INSTALLED WITHIN A DITCH SECTION SHOULD BE INSTALLED SIX (6") INCHES ABOVE EXISTING GRADE.

UTILITY PROVIDERS

POWER	COLQUITT EMC (229) 244-6893
	GEORGIA POWER (404) 506-6539
TRAFFIC	GDOT (404) 635-2800
WATER	CITY OF VALDOSTA (229) 259-3592
SANITARY SEWER	CITY OF VALDOSTA (229) 259-3592
NATURAL GAS	ATLANTA GAS LIGHT (229) 375-4697
TELECOMMUNICATION	ATT / D - BSCA (305) 409-1542
	HARGRAY OF GEORGIA (800) 778-9140
	UNITI FIBER, LLC (800) 778-9140
	MEDIACOM, LLC (229) 563-6315
	UNIFIED COMMUNICATIONS TECHNOLOGIES, LLC (229) 232-8375
	WINDSTREAM (800) 289-1901

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AXIS ENGINEERING CONSULTANTS
LEESBURG★VALDOSTA★WARNER ROBINS

GEORGIA — AXIS ENGINEERING CONSULTANTS PEF009117 06/30/2026 — CERTIFICATE OF AUTHORIZATION

GEORGIA — REGISTERED No. PE039411 PROFESSIONAL 10/1/2025 ENGINEER — B. MATTHEW INMAN

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

B. Matthew Inman
Level II Certified Design Professional

Certification Number: 0C00000885
Issued 06/01/2022 Expires: 06/01/2025

AEC PROJECT NUMBER
25-25058
DATE OF PLANS
8/5/2025
REVISIONS

NO.	DATE	DESCRIPTION
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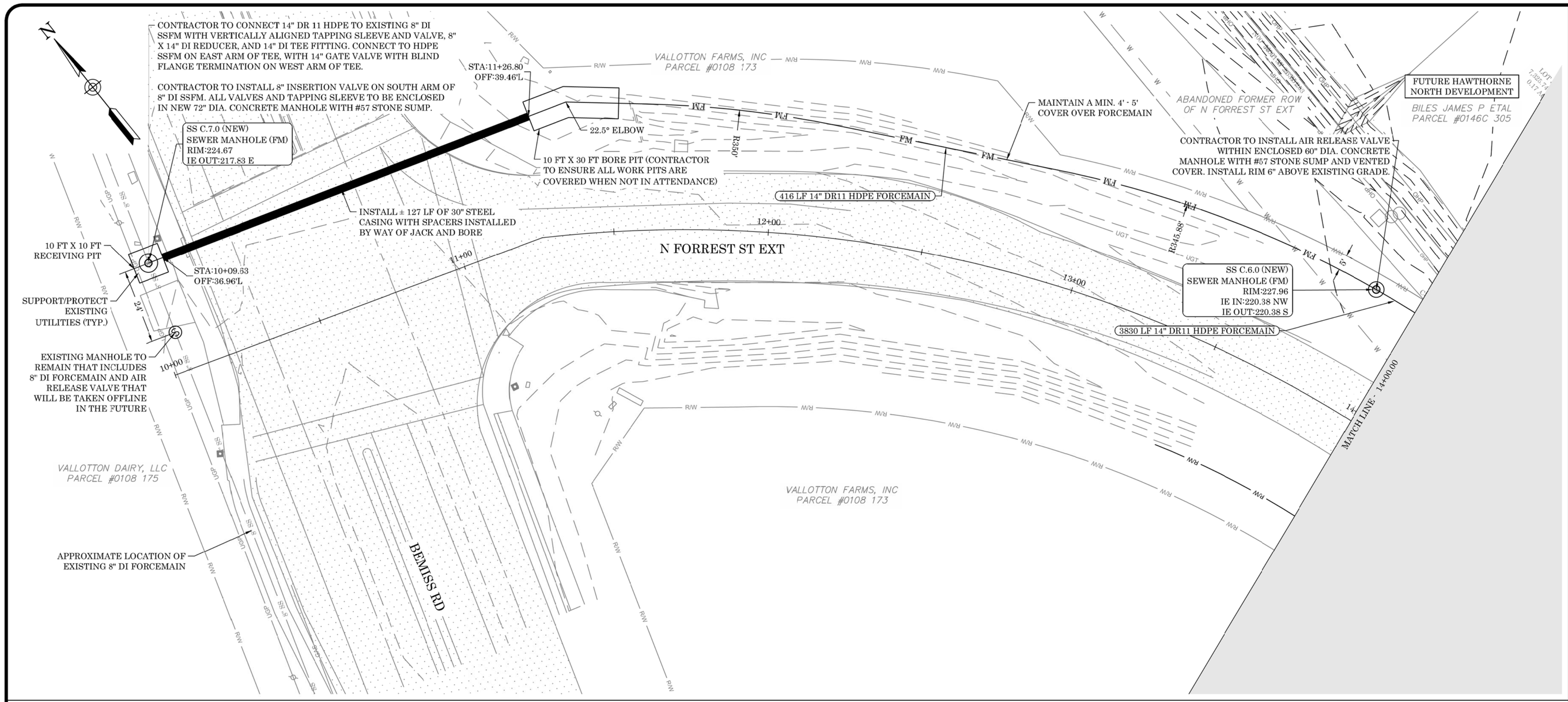
KAR LIFT STATION
CITY OF VALDOSTA

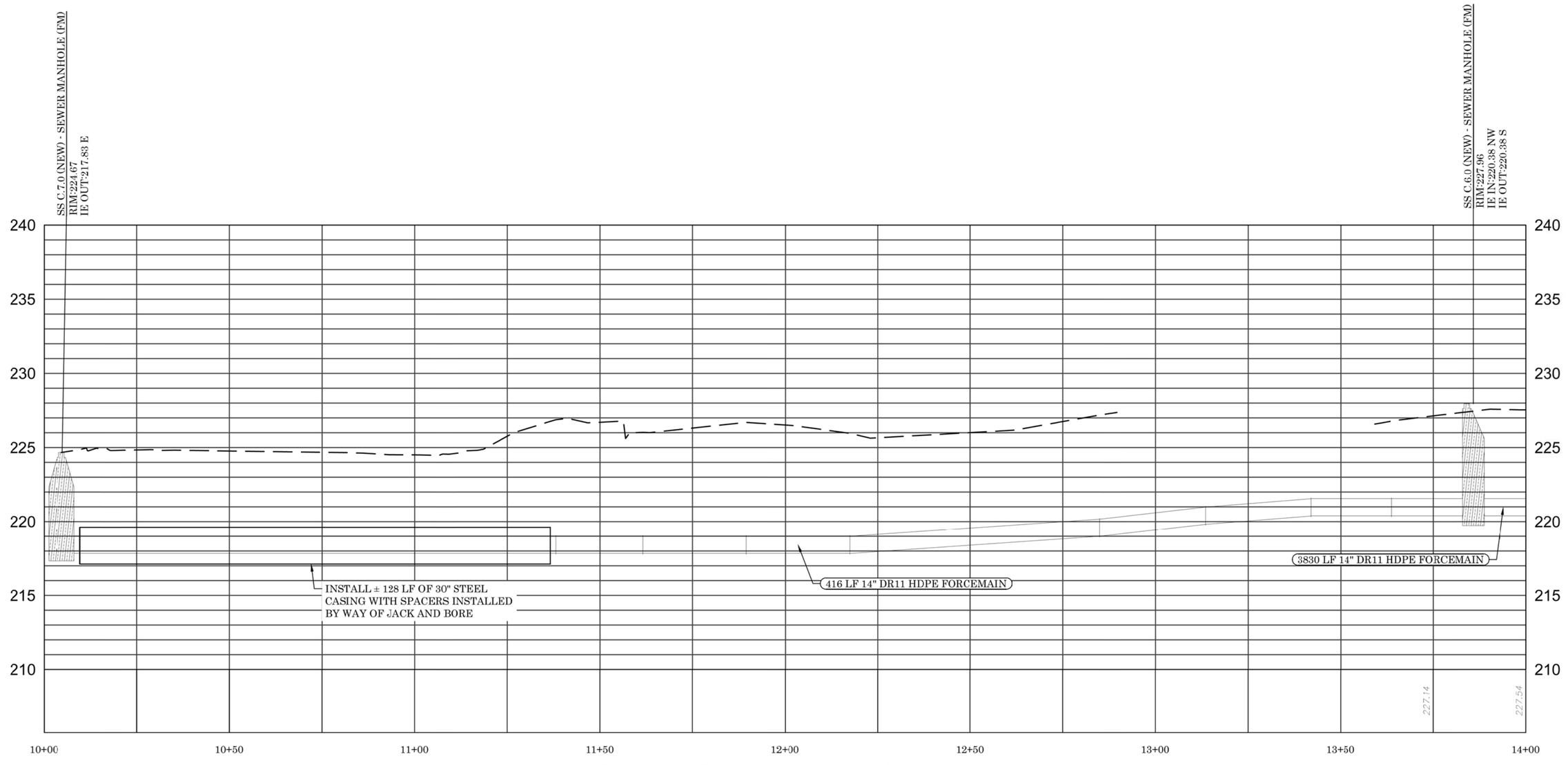
GENERAL NOTES

VALDOSTA, LOWNDES COUNTY, GEORGIA

NOT TO SCALE

SHEET
C2.0 OF 40





Forrest Street Extension Sanitary Sewer Road Center
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

SITE INFORMATION	
PROJECT ADDRESS	N FORREST ST EXT, VALDOSTA, GA 31605
PARCEL ZONING	PUBLIC ROW
PROJECT AREA / LENGTH	1.32 MILES

EXISTING CONDITIONS & DEMOLITION NOTES:

1. THE TOPOGRAPHIC WAS PROVIDED BY CARTER SURVEYING, LLC AND DATED MARCH 23, 2023. A COPY CAN BE PROVIDED UPON WRITTEN REQUEST.
2. THE CONTRACTOR SHALL REVIEW ALL DOCUMENTS AND OBTAIN FIRST HAND KNOWLEDGE OF THE PROJECT AREA. IF ANY DISCREPANCY ARE DISCOVERED NOTIFY THE ENGINEER IN WRITING WITHIN 24 HOURS.
3. THE CONTRACTOR SHALL PROVIDE 72 HOUR NOTICE THE THE UTILITIES PROTECTION CENTER PRIOR TO CONSTRUCTION COMMENCEMENT OR EXCAVATION. THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION FOR ALL EXISTING UTILITIES WITHIN THE CONSTRUCTION AREA AND REPAIR ANY UTILITIES DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER/DEVELOPER.
4. THE CONTRACTOR SHALL COORDINATE ALL UTILITY DISCONNECTIONS / INTERRUPTIONS WITH THE UTILITY OWNER.
5. THE CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS ON ALL CONFLICTS.
6. THE CONTRACTOR SHALL PROVIDE APPROPRIATE SECURITY FEATURES (WARNING, DIVERSIONS, BARRIERS, ECT.) TO SECURE THE PROJECT AREA. THE CONTRACTOR SHALL PROVIDE / MAINTAIN THE ADEQUATE PEDESTRIAN ACCESS AROUND THE PROJECT AREA.
7. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO PROTECT ALL TREES NOT SHOWN HEREON TO BE REMOVED AND PROVIDE ADEQUATE TREE PROTECTION AROUND THE CRITICAL ROOT ZONE FOR SUCH TREES.
8. ALL ITEMS INDICATED HEREON TO BE REMOVED / DEMOLISHED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF PROPERLY UNLESS OTHERWISE STATED WITHIN THE CONSTRUCTION CONTRACT.
9. ALL EXISTING ASPHALT / CONCRETE PAVEMENT & CURB SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR / REPLACEMENT OF ANY DAMAGED AREAS.

GENERAL SITE NOTES:

1. HANDICAPPED PARKING AND ACCESSIBLE ROUTES SHALL MEET THE AMERICANS WITH DISABILITIES ACTS STANDARDS FOR ACCESSIBLE DESIGN - LATEST EDITION. SIDEWALKS SHALL NOT EXCEED 5% MAXIMUM LONGITUDINAL SLOPE AND 2% MAXIMUM CROSS SLOPE. ACCESSIBLE PARKING STALLS SHALL NOT EXCEED 2% MAXIMUM SLOPE IN ALL DIRECTIONS. ACCESSIBLE RAMPS SHALL NOT EXCEED 12H:1V GRADE.
2. ALL SIGNS AND STRIPING SHALL CONFIRM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) - LATEST EDITION AND/OR DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS.
3. ALL DIMENSIONS ARE MEASURED TO THE FACE OF CURB (WHEN PRESENT), EDGE OF ASPHALT AND/OR EDGE OF BUILDING.
4. HORIZONTAL DATA SHOWN HEREON IS BASED ON NAD83 GEORGIA STATE PLANES, WEST ZONE, US FOOT. VERTICAL DATA SHOWN HEREON IS BASED ON NAVD 88(12B).

HATCH LEGEND:

EXISTING ASPHALT PAVEMENT

EXISTING CONCRETE SIDEWALK / PAVEMENT

DEMOLITION AREA

UTILITY NOTES:

1. THE CONTRACTOR SHALL PROVIDE 72 HOUR NOTICE THE THE UTILITIES PROTECTION CENTER PRIOR TO CONSTRUCTION COMMENCEMENT OR EXCAVATION. THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION FOR ALL EXISTING UTILITIES WITHIN THE CONSTRUCTION AREA AND REPAIR ANY UTILITIES DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER/DEVELOPER.
2. THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND SIZE OF ALL EXISTING UTILITIES WITHIN THE PROJECT AREA AND ANY UTILITY CONNECTIONS OFF-SITE. THE CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS ON ALL CONFLICTS.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF PROPOSED UTILITIES AND COORDINATION WITH ALL APPLICABLE ARCHITECTURAL BUILDING PLANS FOR THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER PLACEMENT AND FIT OF ALL PROPOSED UTILITIES. IF ANY DISCREPANCIES ARE DISCOVERED, NOTIFY THE ENGINEER IN WRITING WITHIN 24 HOURS.
4. TEN (10') FOOT HORIZONTAL & EIGHTEEN (18") INCH VERTICAL SEPARATION SHALL BE MAINTAINED BETWEEN ALL PROPOSED POTABLE WATER MAINS AND SANITARY SEWER MAINS.
5. FOUR (4') FOOT MINIMUM COVER SHALL BE MAINTAINED ABOVE ALL PROPOSED WATER MAINS AND SERVICE CONNECTIONS.
6. ALL WATER FIXTURES, APPURTENANCES AND CONSTRUCTION METHODS SHALL COMPLY WITH ALL LOCAL STANDARDS AND SPECIFICATION.
7. ALL SANITARY SEWER MAINS SHALL MEET THE SLOPE REQUIREMENTS AS STATED IN THE TEN STATE STANDARDS FOR WASTEWATER FACILITIES - LATEST EDITION. SANITARY SEWER SERVICE CONNECTIONS SHALL MAINTAIN 1% MINIMUM SLOPE UNLESS OTHERWISE NOTED.
8. ALL SANITARY SEWER CONSTRUCTION SHALL COMPLY WITH ALL LOCAL STANDARDS AND SPECIFICATIONS.
9. THE CONTRACTOR SHALL ADJUST THE TOPS OF ALL EXISTING AND PROPOSED UTILITY STRUCTURES TO MATCH FINAL GRADE ELEVATIONS UNLESS OTHERWISE STATED. UTILITY STRUCTURE TOPS SHOULD HAVE LOCKABLE HINGED COVERS. UTILITY STRUCTURES INSTALLED WITHIN A DITCH SECTION SHOULD BE INSTALLED SIX (6") INCHES ABOVE EXISTING GRADE.

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GEORGIA AXIS ENGINEERING CONSULTANTS PEF009117 06/30/2026 CERTIFICATE OF AUTHORIZATION

GEORGIA REGISTERED No. PE039411 PROFESSIONAL 10/1/2025 ENGINEER B. MATTHEW LEMAN

AEC PROJECT NUMBER
25-25058

DATE OF PLANS
8/5/2025

REVISIONS

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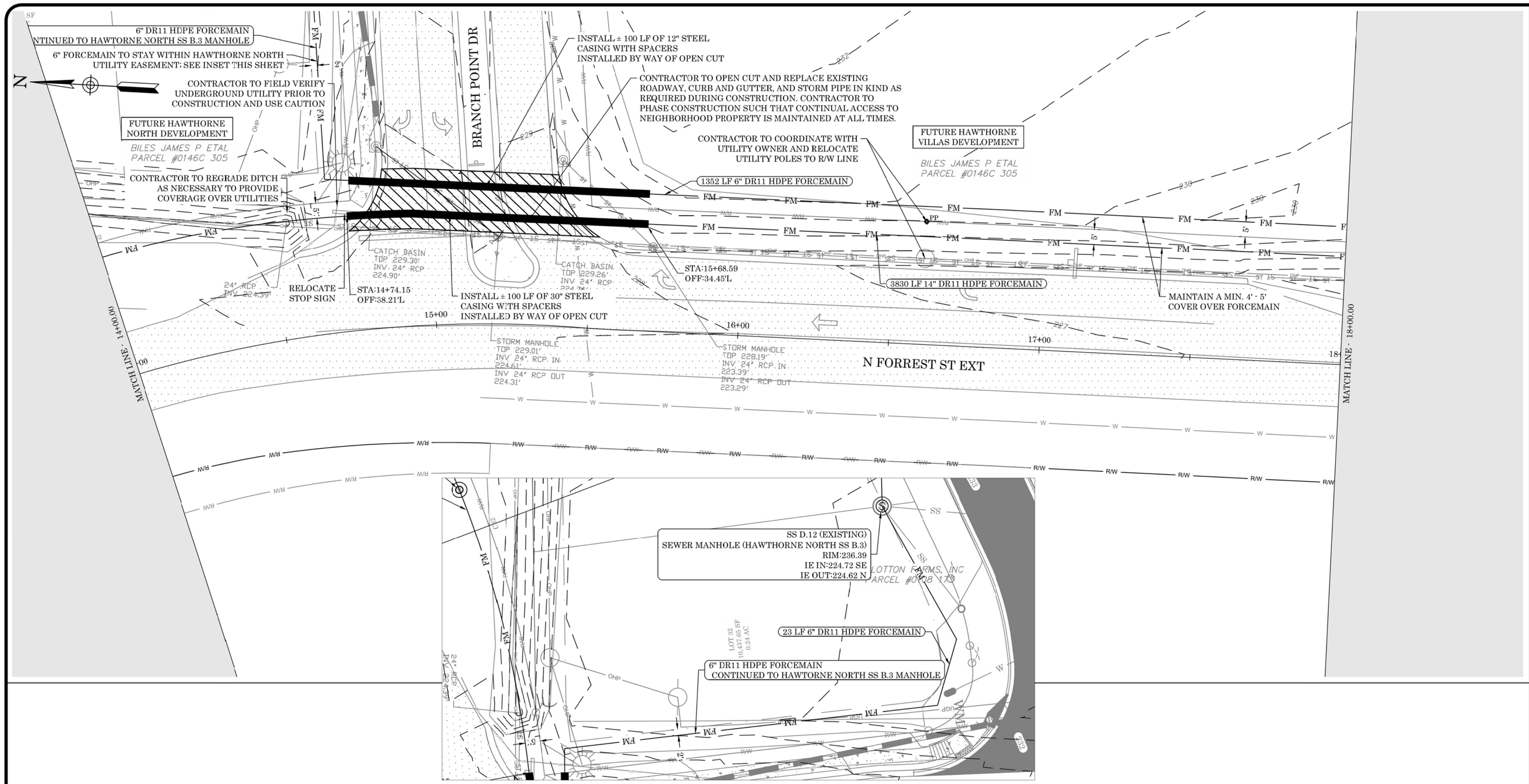
KAR LIFT STATION
CITY OF VALDOSTA

FORREST ST EXT - SITE AND DEMO PLAN

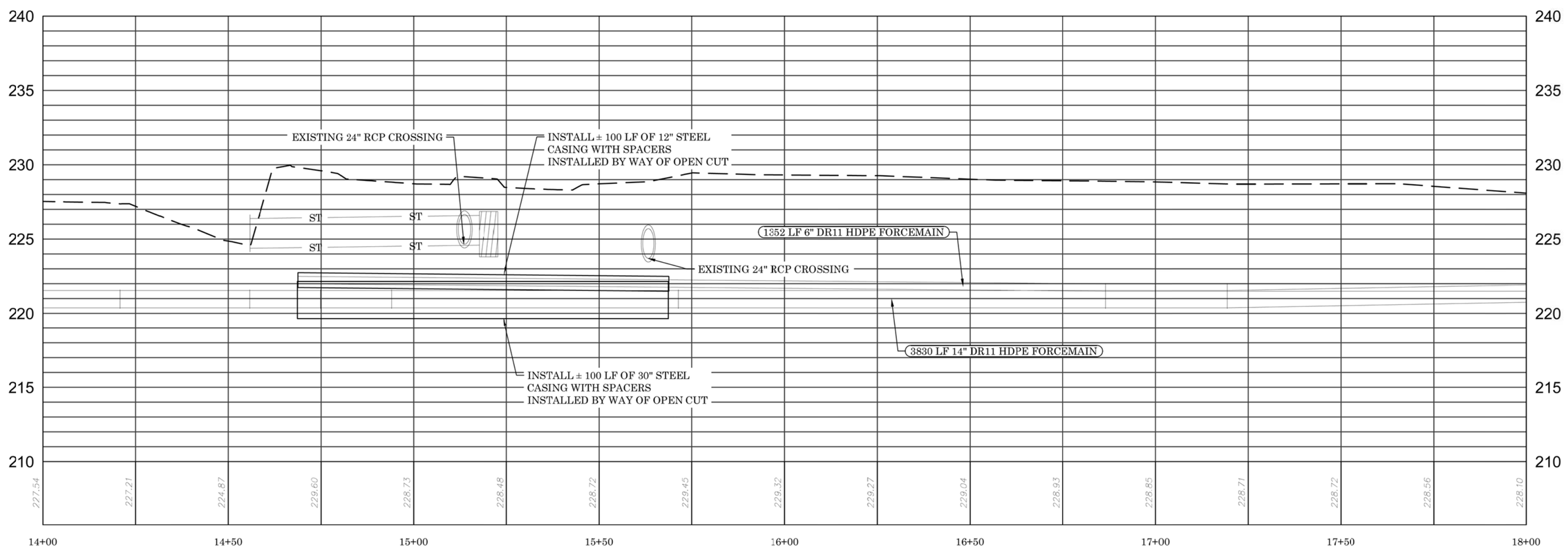
VALDOSTA, LOWNDES COUNTY, GEORGIA

20' 10' 0' 20'
GRAPHIC SCALE 1" = 20'

SHEET
C3.0 OF 40



INSET FOR 6" DR11 HDPE FORCEMAIN TO HAWTHORNE NORTH



Forrest Street Extension Sanitary Sewer Road Center
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

SITE INFORMATION	
PROJECT ADDRESS	N FORREST ST EXT, VALDOSTA, GA 31605
PARCEL ZONING	PUBLIC ROW
PROJECT AREA / LENGTH	1.32 MILES

EXISTING CONDITIONS & DEMOLITION NOTES:

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HATCH LEGEND:

EXISTING ASPHALT PAVEMENT

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DEMOLITION AREA

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GEORGIA811 www.Georgia811.com

GEORGIA — AXIS ENGINEERING CONSULTANTS — PEF009117 — 06/30/2026 — CERTIFICATE OF AUTHORIZATION

GEORGIA — REGISTERED — No. PE033411 — PROFESSIONAL — 10/1/2025 — ENGINEER — B. MATTHEW LIMAN

AEC PROJECT NUMBER
25-25058

DATE OF PLANS
8/5/2025

REVISIONS

NO.	DATE	DESCRIPTION
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KAR LIFT STATION
CITY OF VALDOSTA

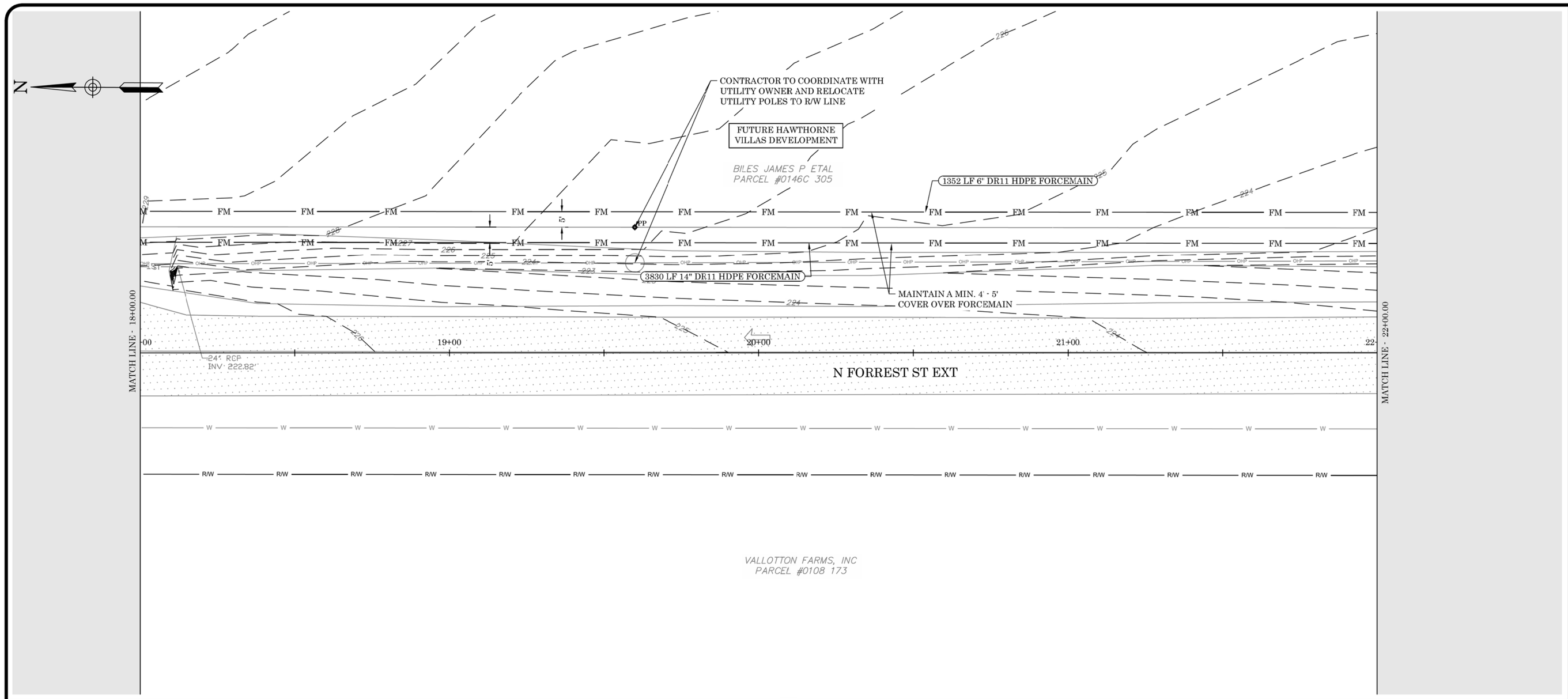
FORREST ST EXT - SITE AND DEMO PLAN

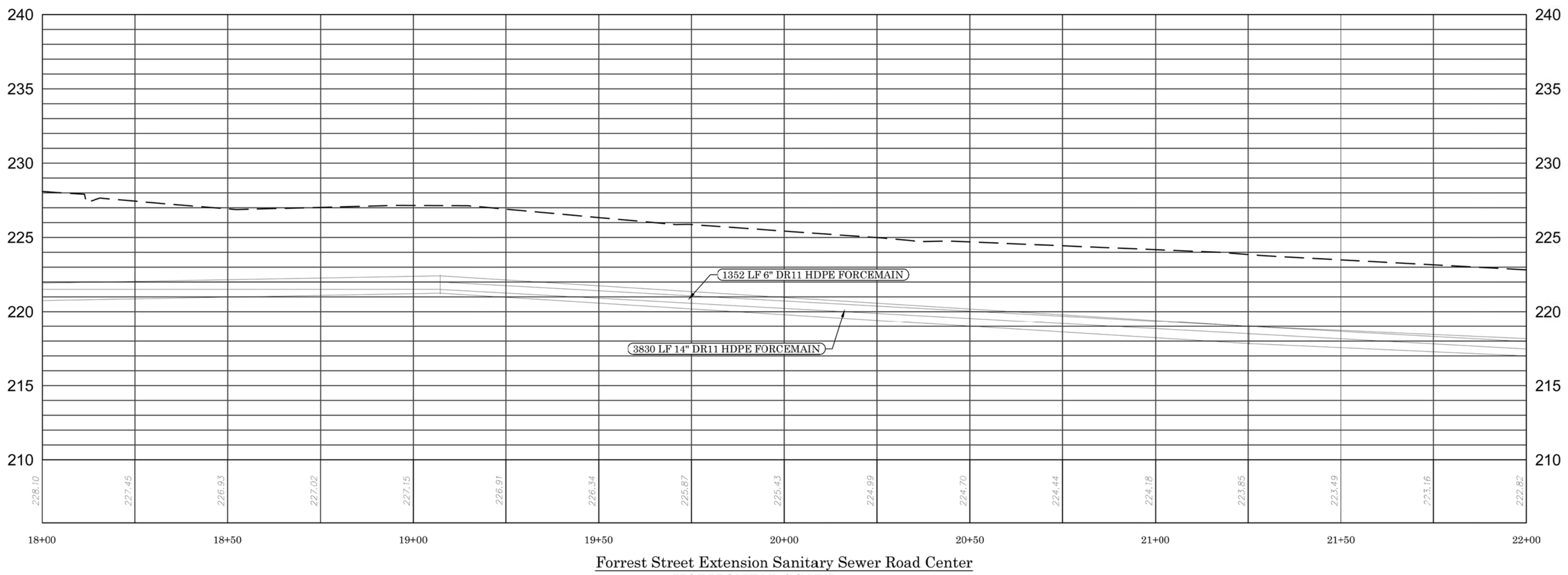
VALDOSTA, LOWNDES COUNTY, GEORGIA

20' 10' 0' 20'
GRAPHIC SCALE 1" = 20'

SHEET
C3.1 OF 40

Z:\Shared\AEC\Projects\2025\25-25058 Knights Academy Rd Lift Station Valdosta, GA\DWG\62082C_B01.dwg - 10/1/2025 2:22 PM





Forrest Street Extension Sanitary Sewer Road Center
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

SITE INFORMATION	
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PARCEL ZONING	PUBLIC ROW
PROJECT AREA / LENGTH	1.32 MILES

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GEORGIA CERTIFICATE OF AUTHORIZATION AXIS ENGINEERING CONSULTANTS PEF009117 06/30/2026

GEORGIA REGISTERED No. PE039411 PROFESSIONAL 10/1/2025 ENGINEER B. MATTHEW LIMAN

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KAR LIFT STATION
CITY OF VALDOSTA
FORREST ST EXT - SITE AND DEMO PLAN

VALDOSTA, LOWNDES COUNTY, GEORGIA

20' 10' 0' 20'
GRAPHIC SCALE 1" = 20'

SHEET
C3.2 OF 40

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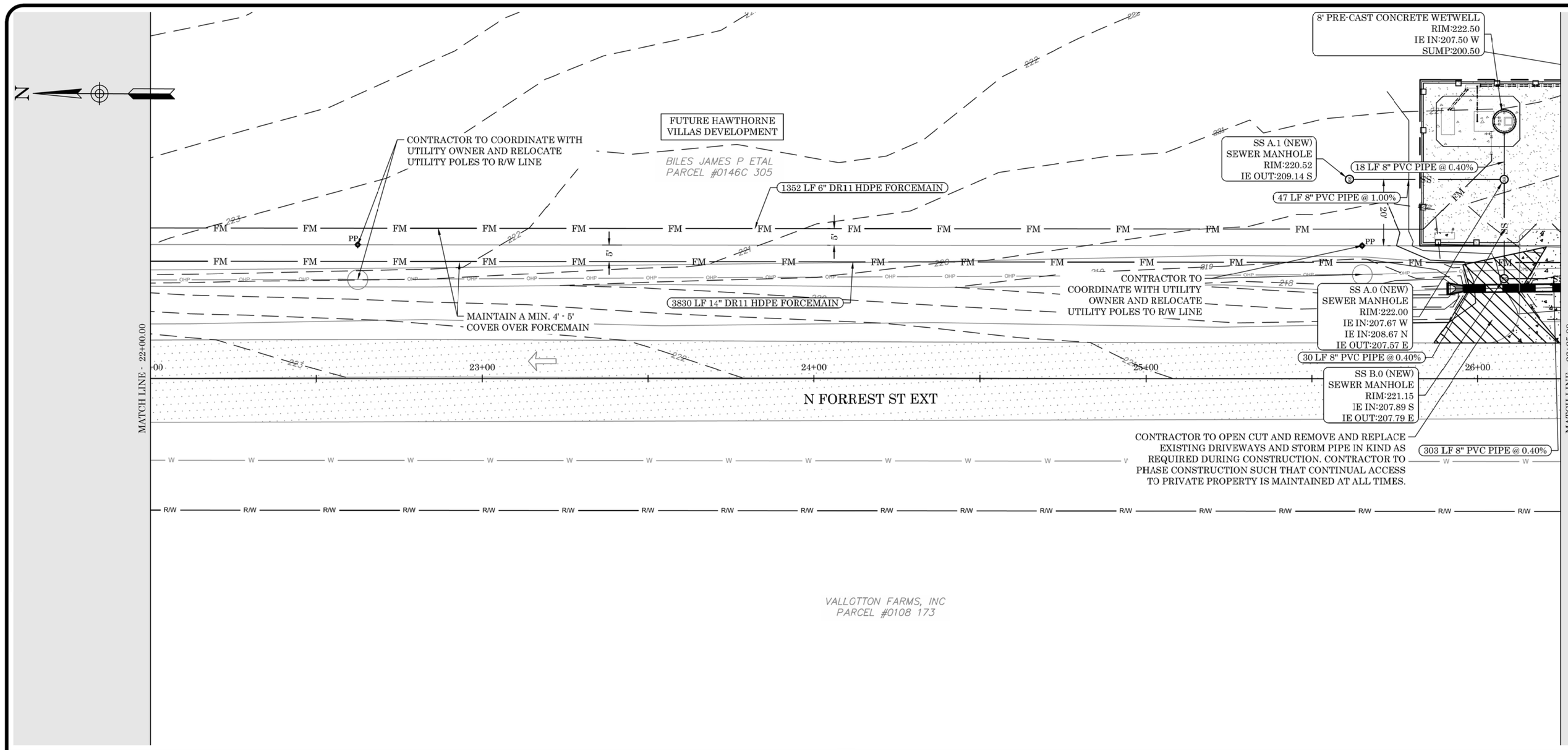

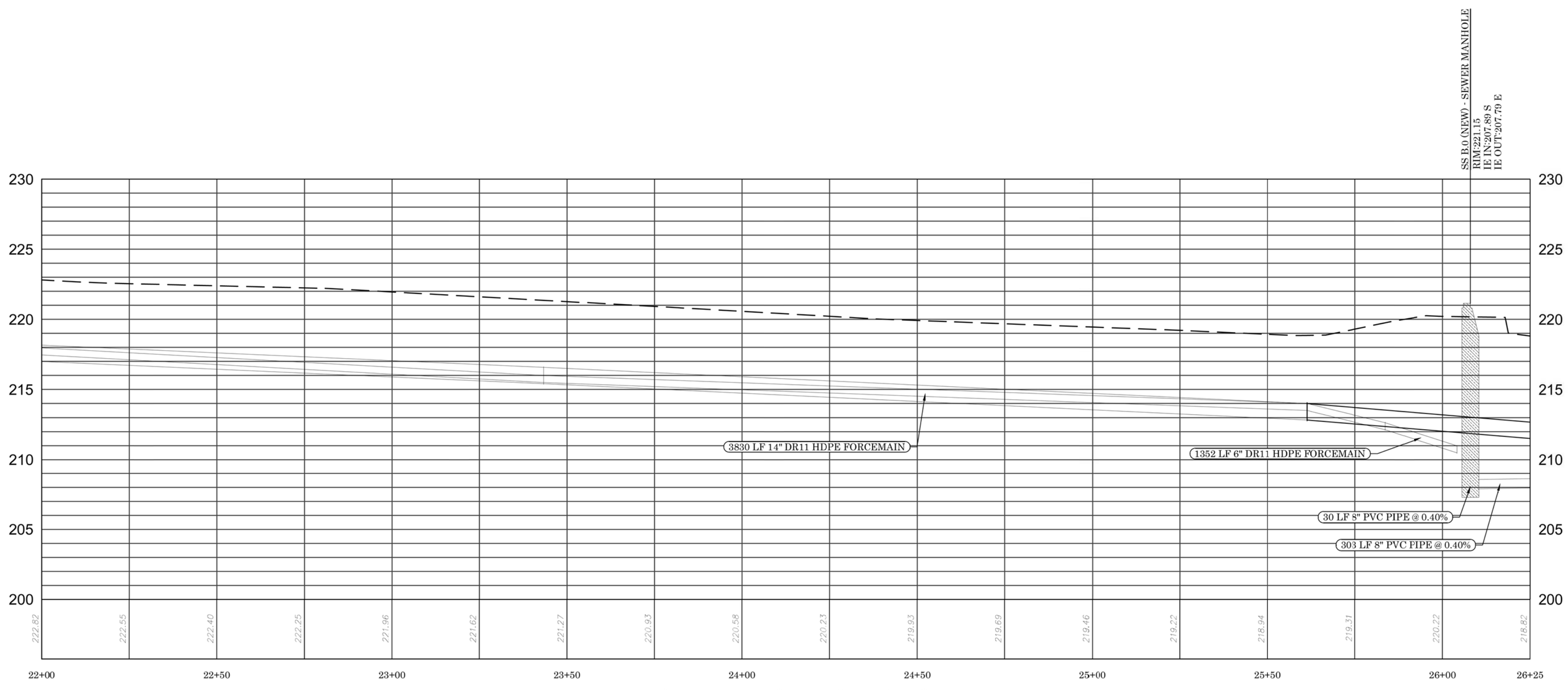

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GEORGIA — REGISTERED — No. PE039411 — PROFESSIONAL — 10/1/2025 — ENGINEER — B. MATTHEW LAMAN

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KAR LIFT STATION
CITY OF VALDOSTA

FORREST ST EXT - SITE AND DEMO PLAN

VALDOSTA, LOWNDES COUNTY, GEORGIA

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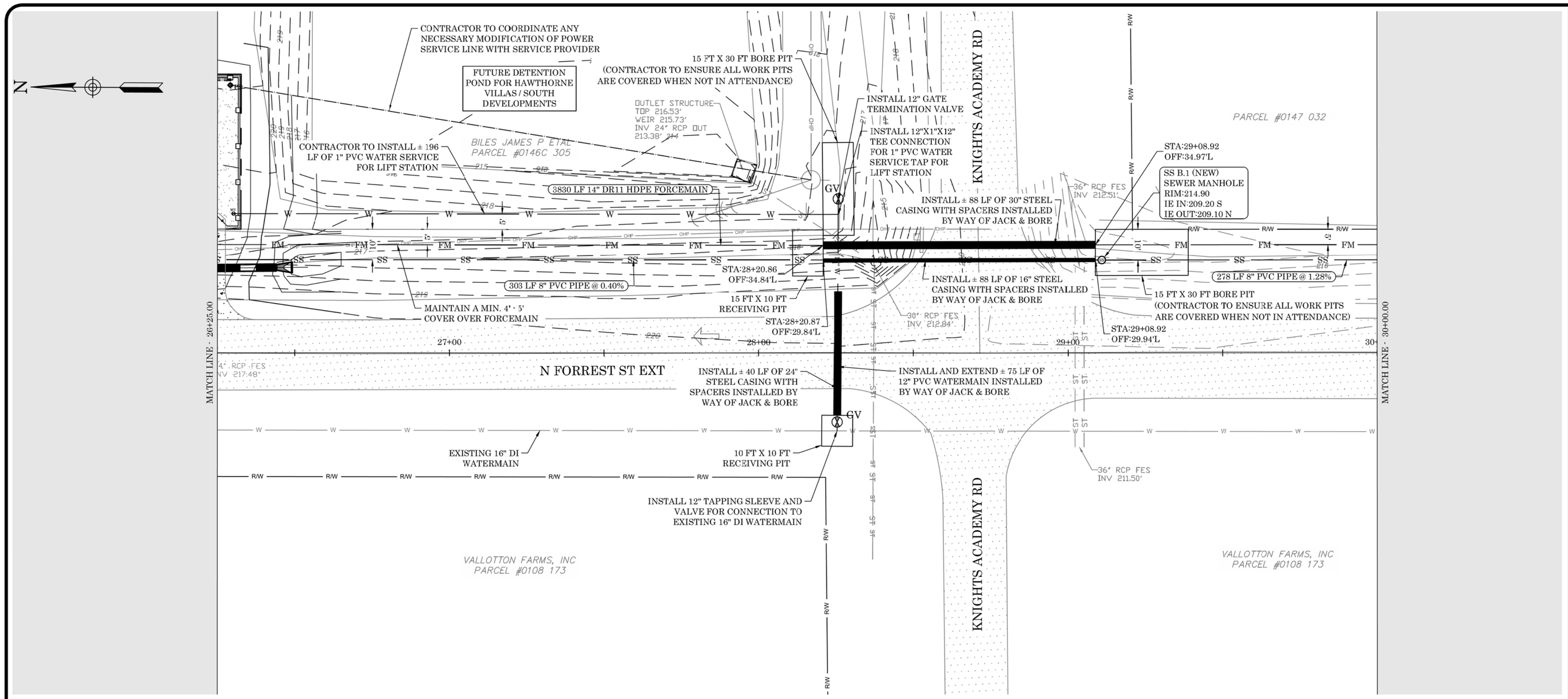

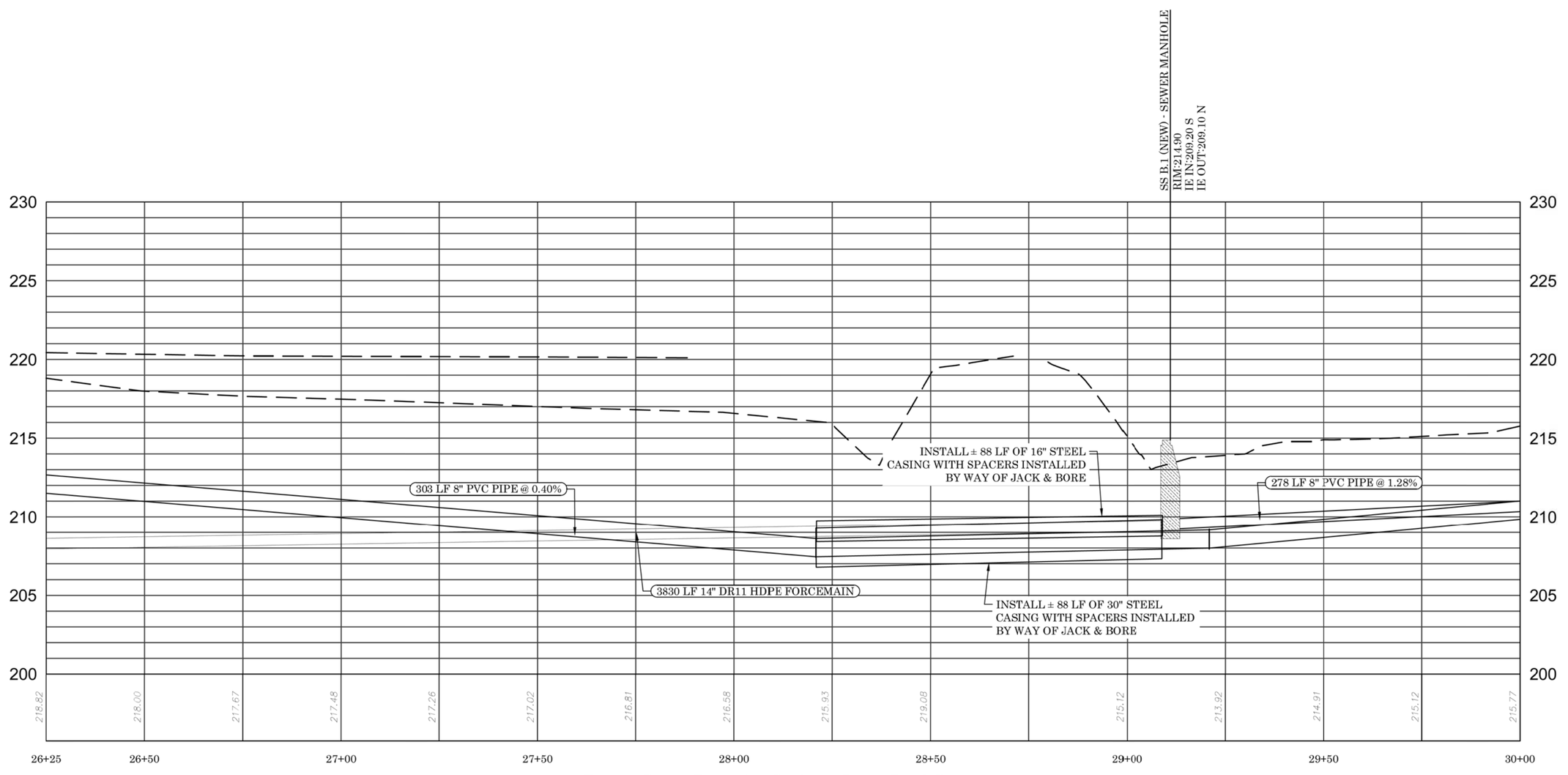

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GEORGIA — AXIS ENGINEERING CONSULTANTS PEF009117 06/30/2026 — CERTIFICATE OF AUTHORIZATION

GEORGIA — REGISTERED No. PE033411 PROFESSIONAL 10/1/2025 ENGINEER — B. MATTHEW LOMAN

AEC PROJECT NUMBER
25-25058

DATE OF PLANS
8/5/2025

REVISIONS

NO.	DATE	DESCRIPTION
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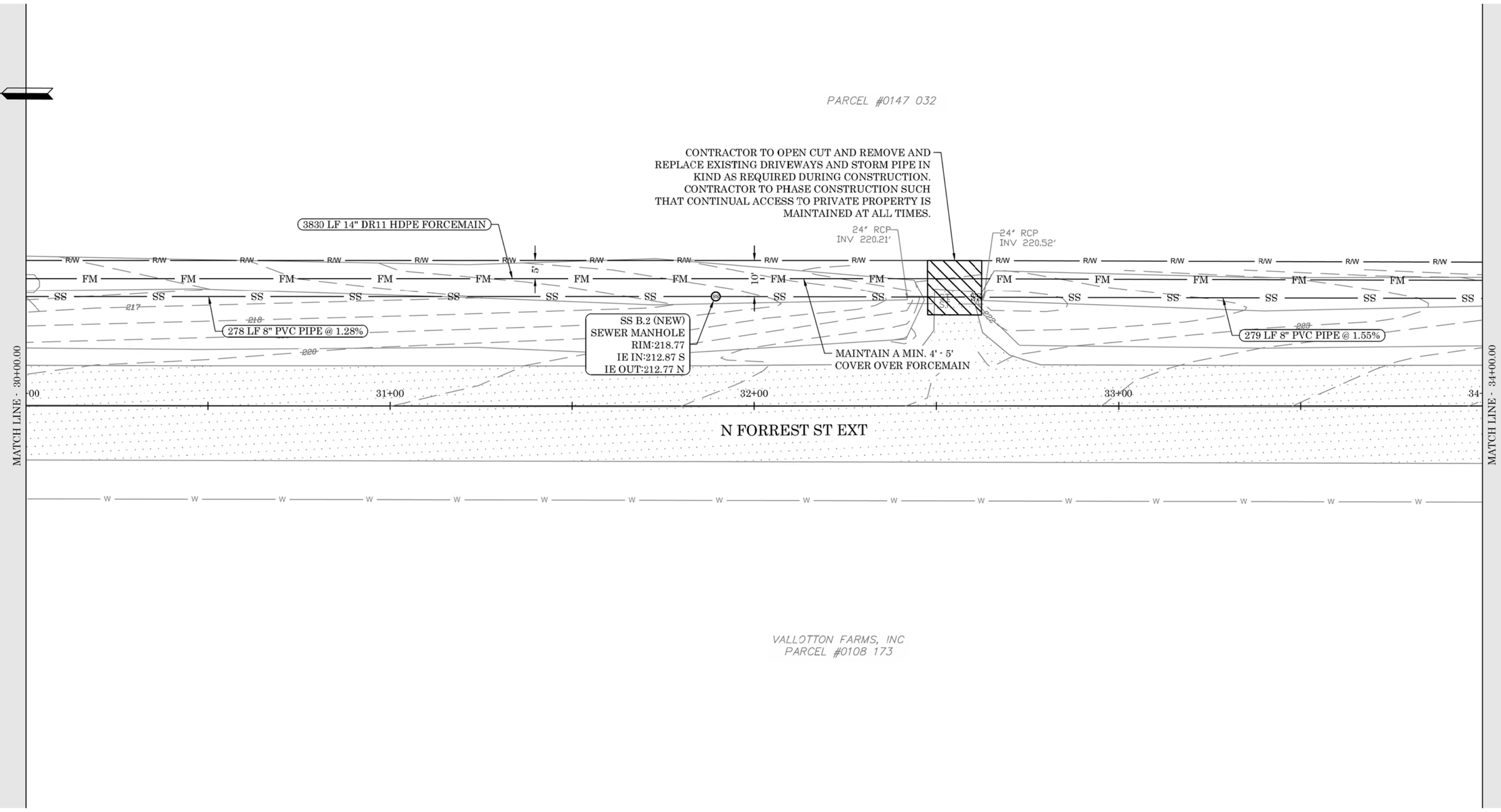
KAR LIFT STATION
CITY OF VALDOSTA

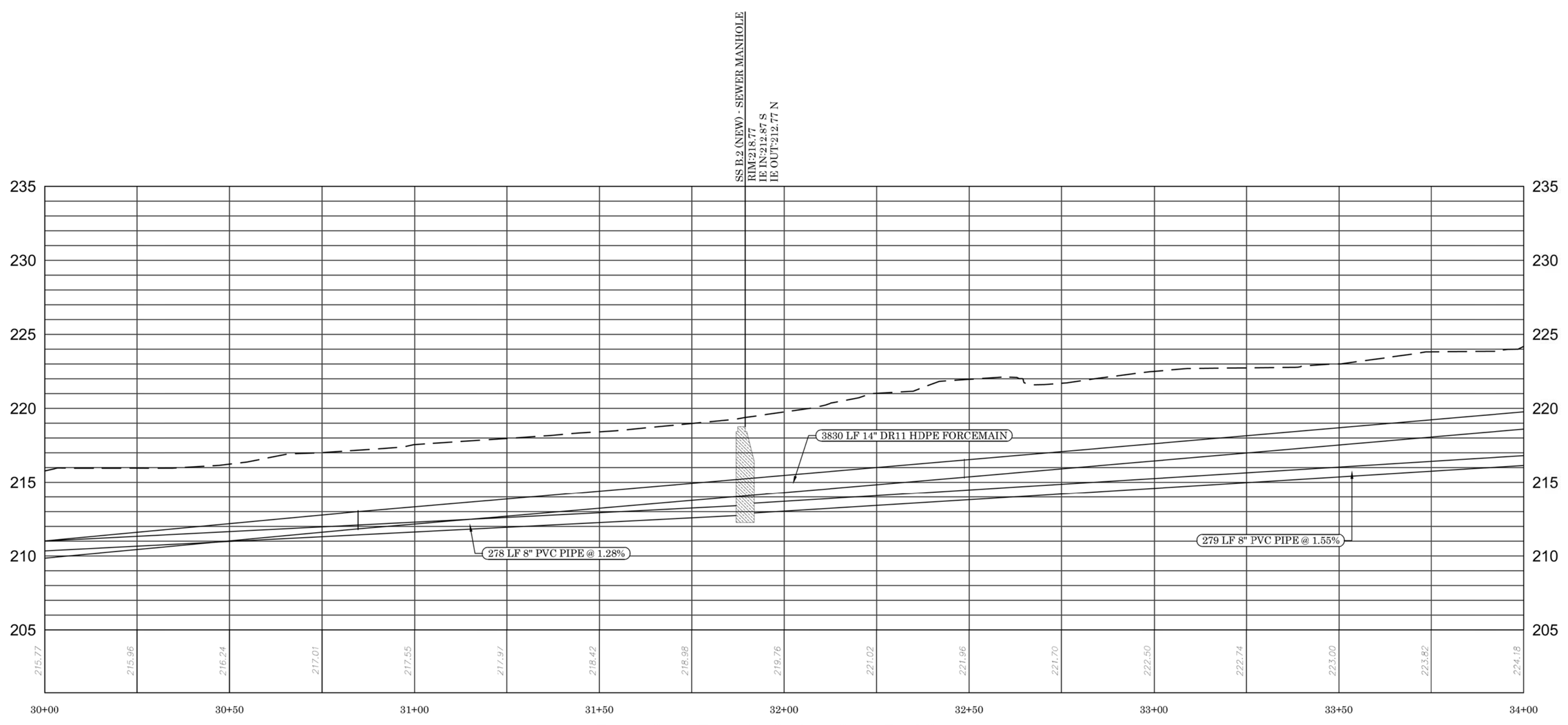
FORREST ST EXT - SITE AND DEMO PLAN

VALDOSTA, LOWNDES COUNTY, GEORGIA

20' 10' 0' 20'
GRAPHIC SCALE 1" = 20'

SHEET
C3.4 OF 40





Forrest Street Extension Sanitary Sewer Road Center
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

SITE INFORMATION	
PROJECT ADDRESS	N FORREST ST EXT, VALDOSTA, GA 31605
PARCEL ZONING	PUBLIC ROW
PROJECT AREA / LENGTH	1.32 MILES

EXISTING CONDITIONS & DEMOLITION NOTES:

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HATCH LEGEND:

EXISTING ASPHALT PAVEMENT

EXISTING CONCRETE SIDEWALK / PAVEMENT

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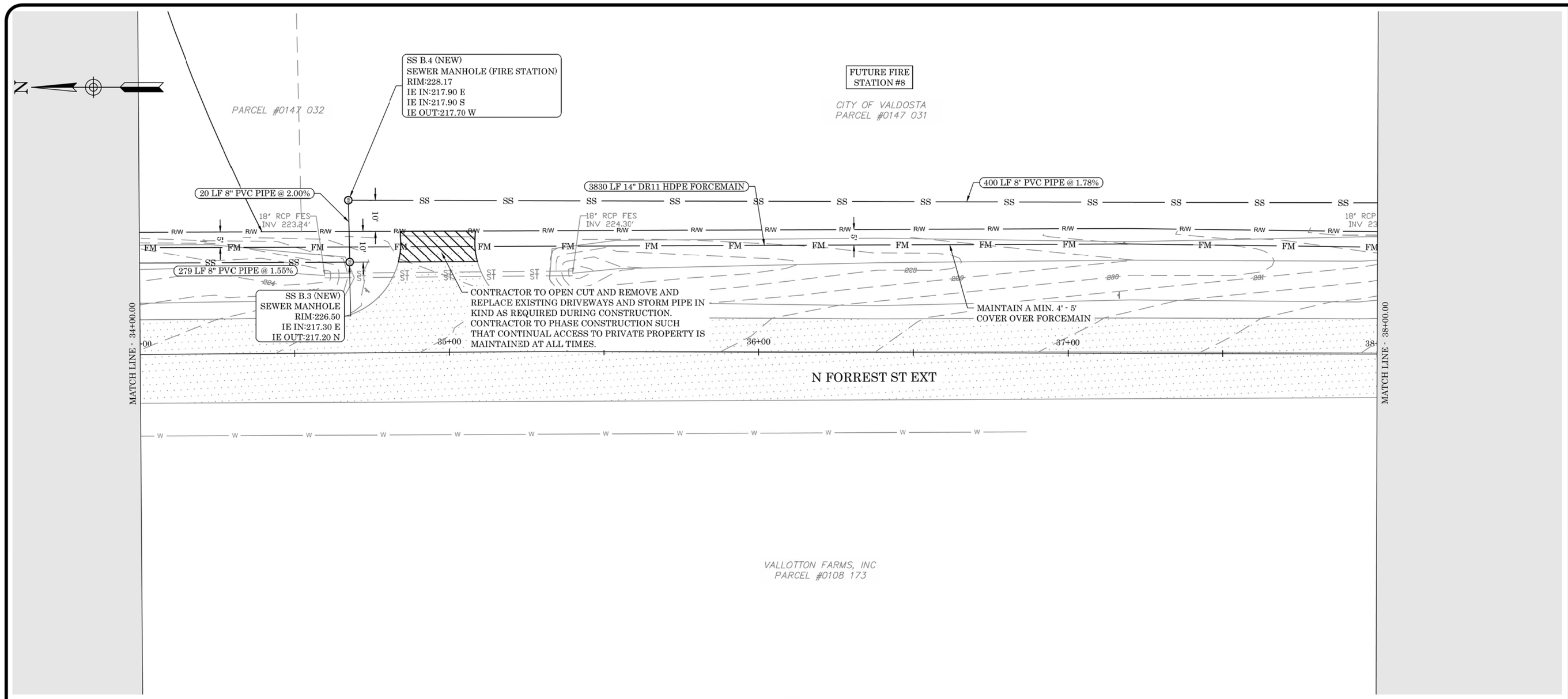

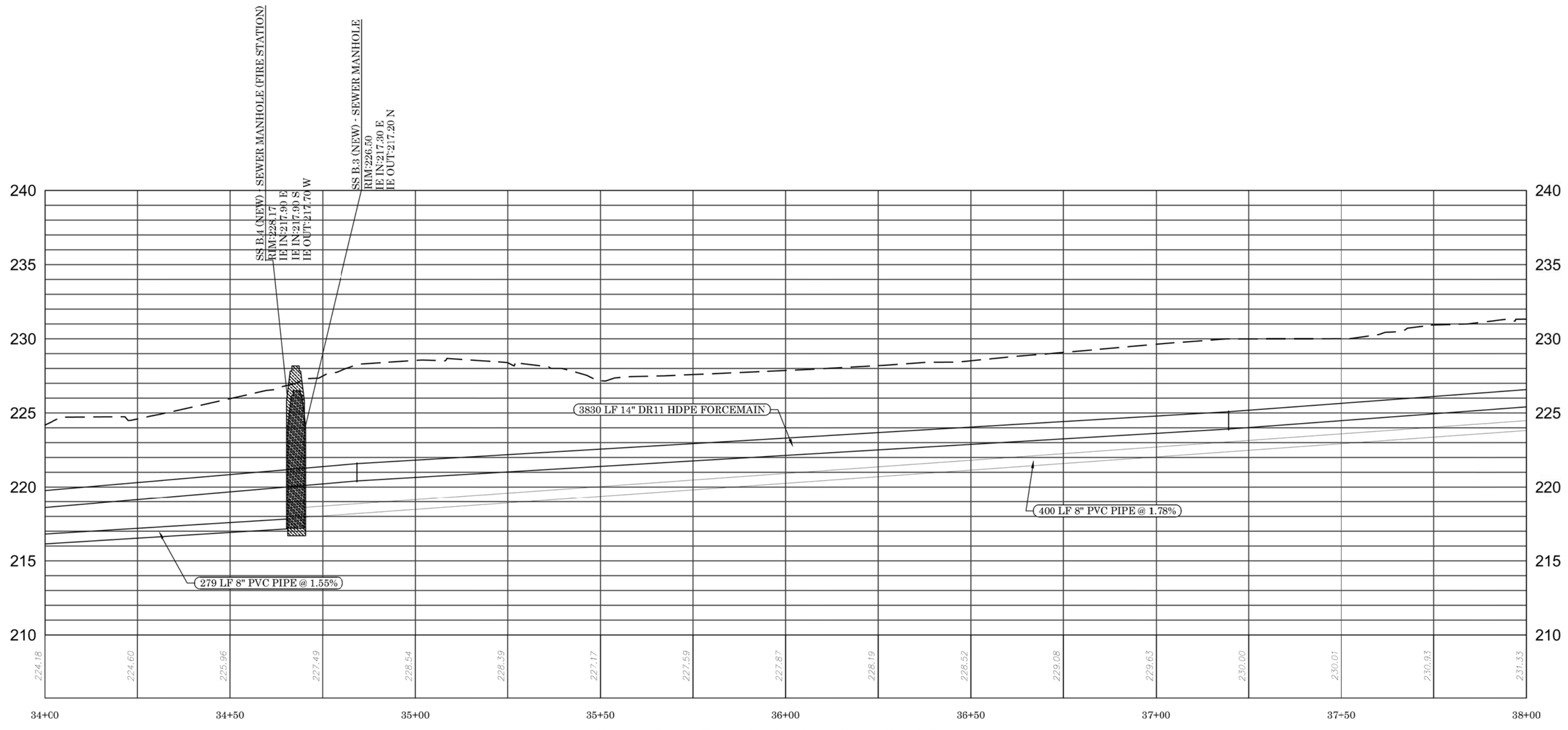

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SHEET
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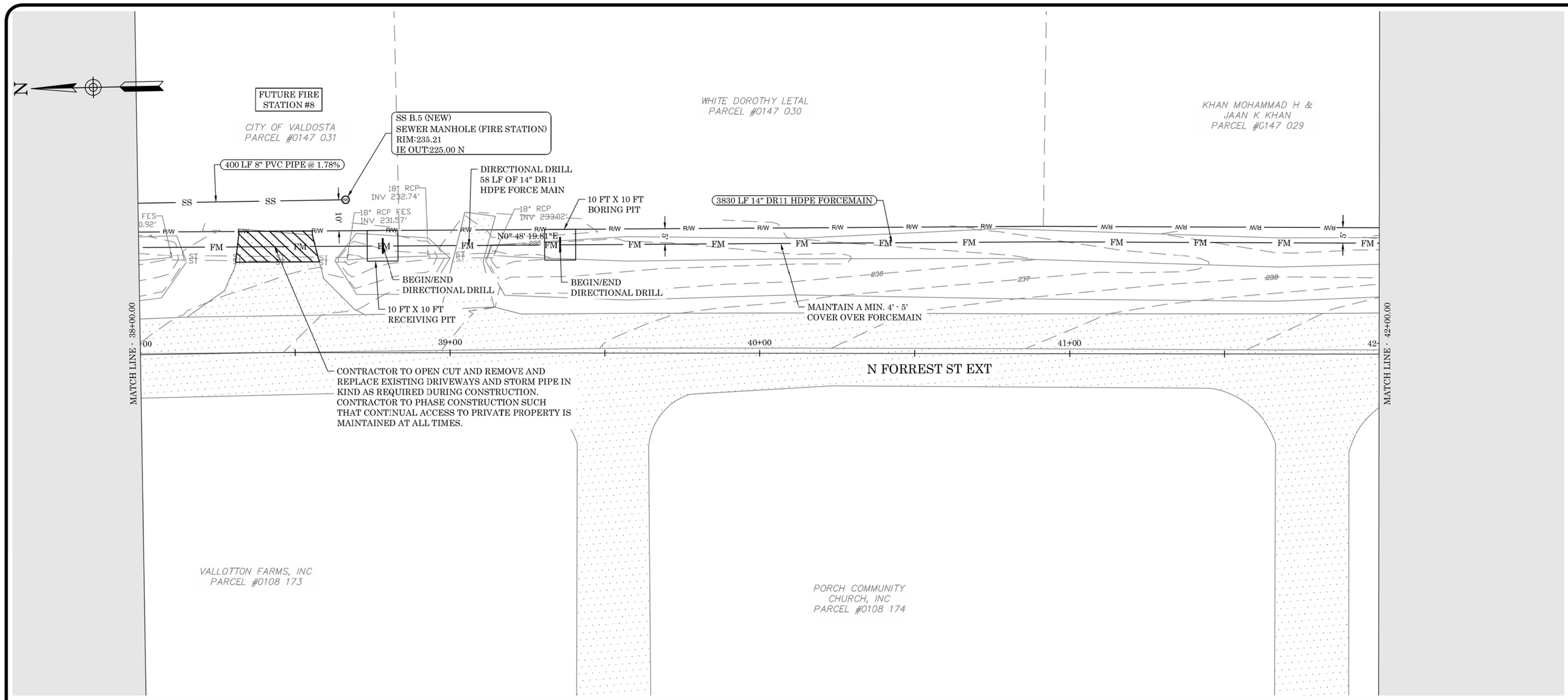

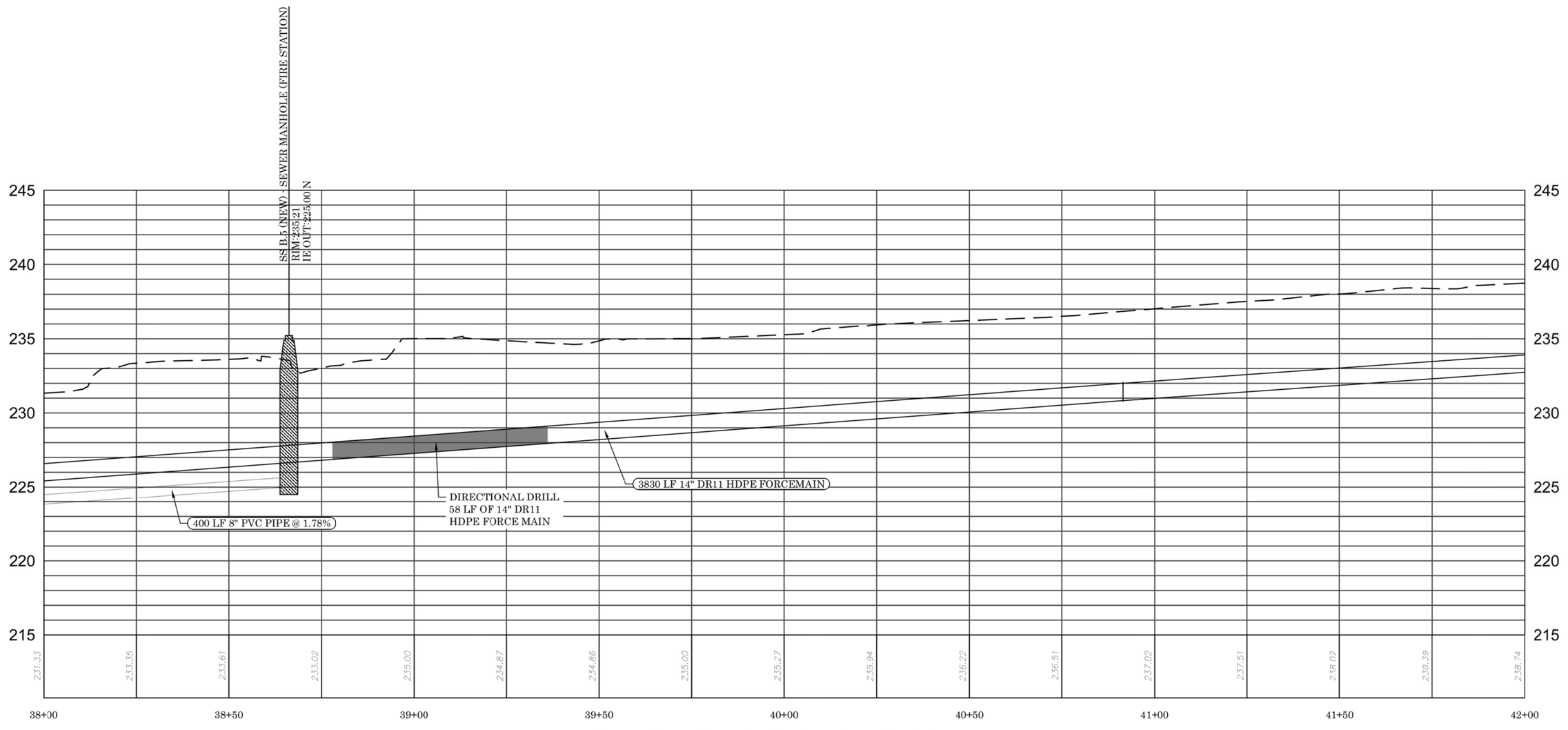

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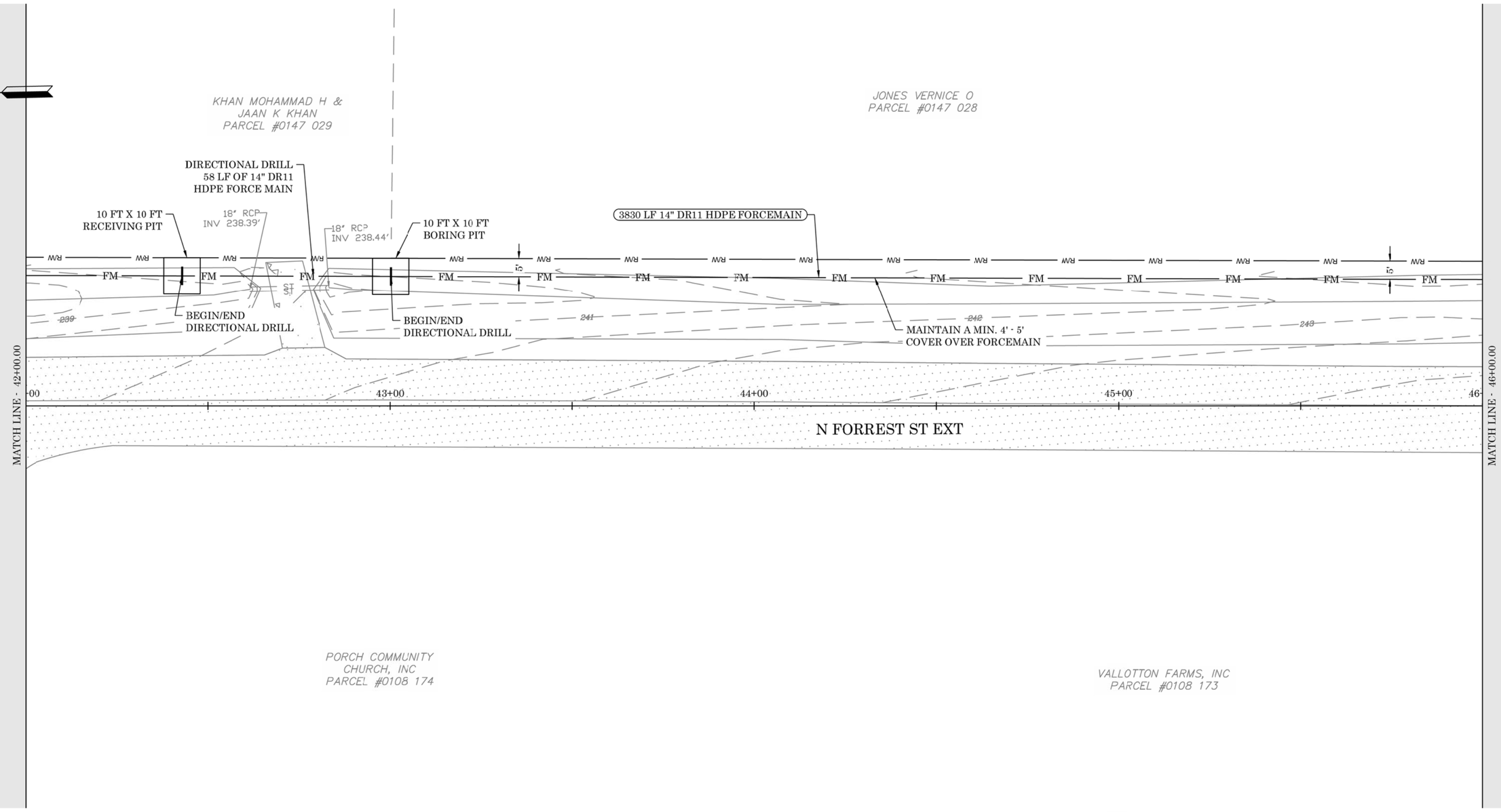

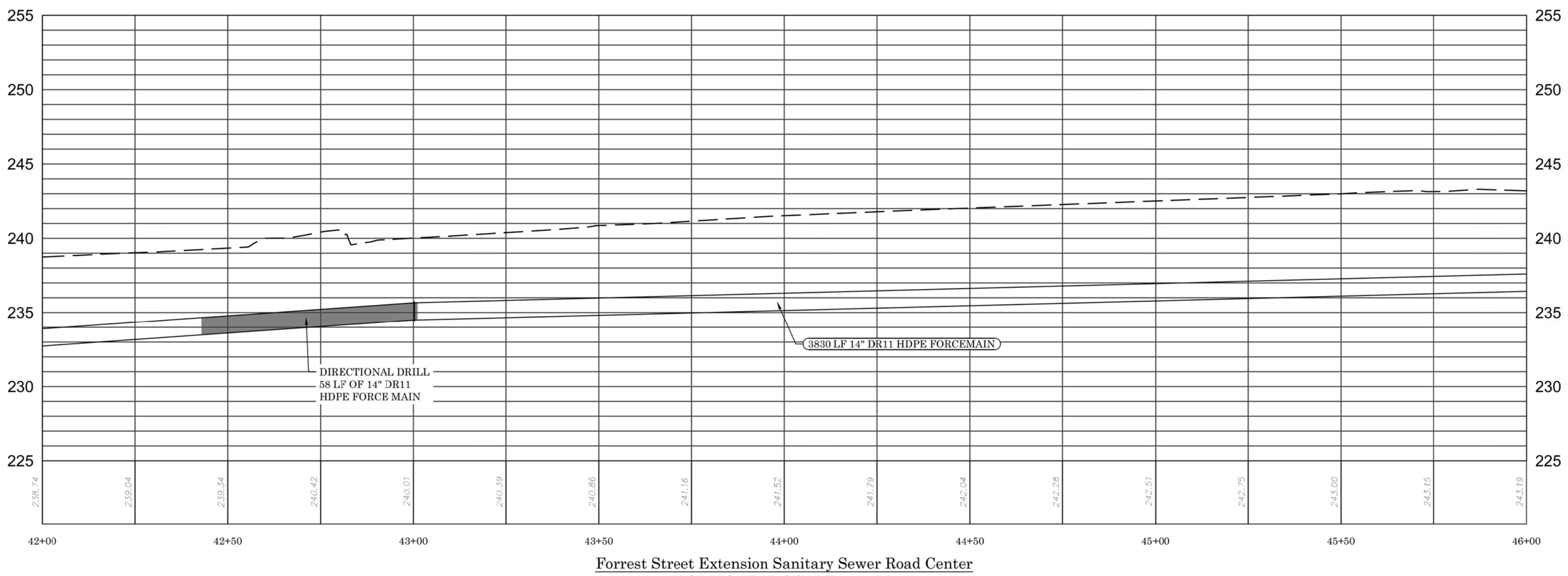

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HATCH LEGEND:

EXISTING ASPHALT PAVEMENT

EXISTING CONCRETE SIDEWALK / PAVEMENT

DEMOLITION AREA

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GEORGIA CERTIFICATE OF AUTHORIZATION — AXIS ENGINEERING CONSULTANTS — PEF009117 — 06/30/2026

GEORGIA REGISTERED PROFESSIONAL ENGINEER — No. PE039411 — 10/1/2025 — B. MATTHEW LIMAN

AEC PROJECT NUMBER
25-25058

DATE OF PLANS
8/5/2025

REVISIONS

NO.	DATE	DESCRIPTION
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KAR LIFT STATION
CITY OF VALDOSTA

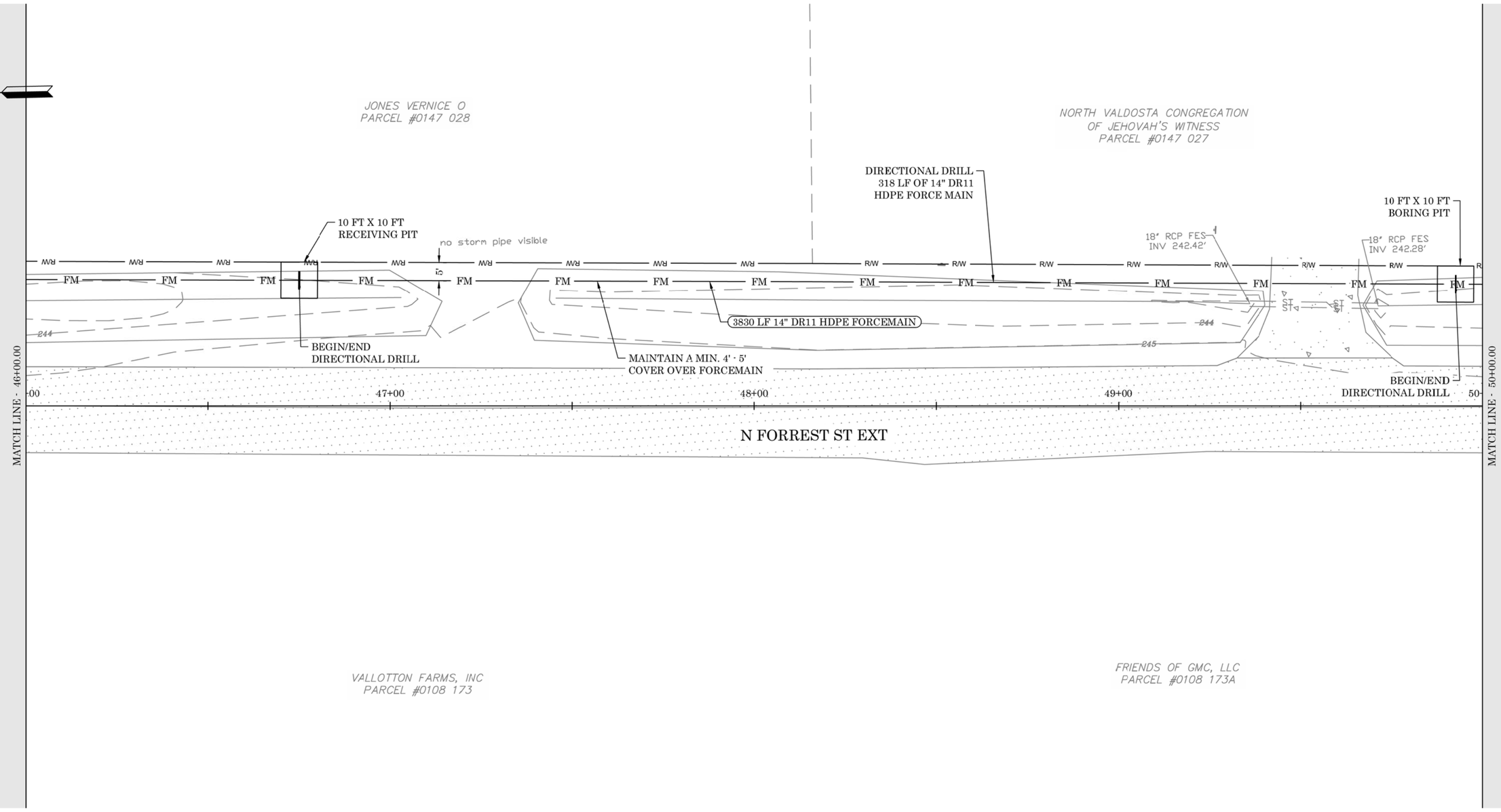
FORREST ST EXT - SITE AND DEMO PLAN

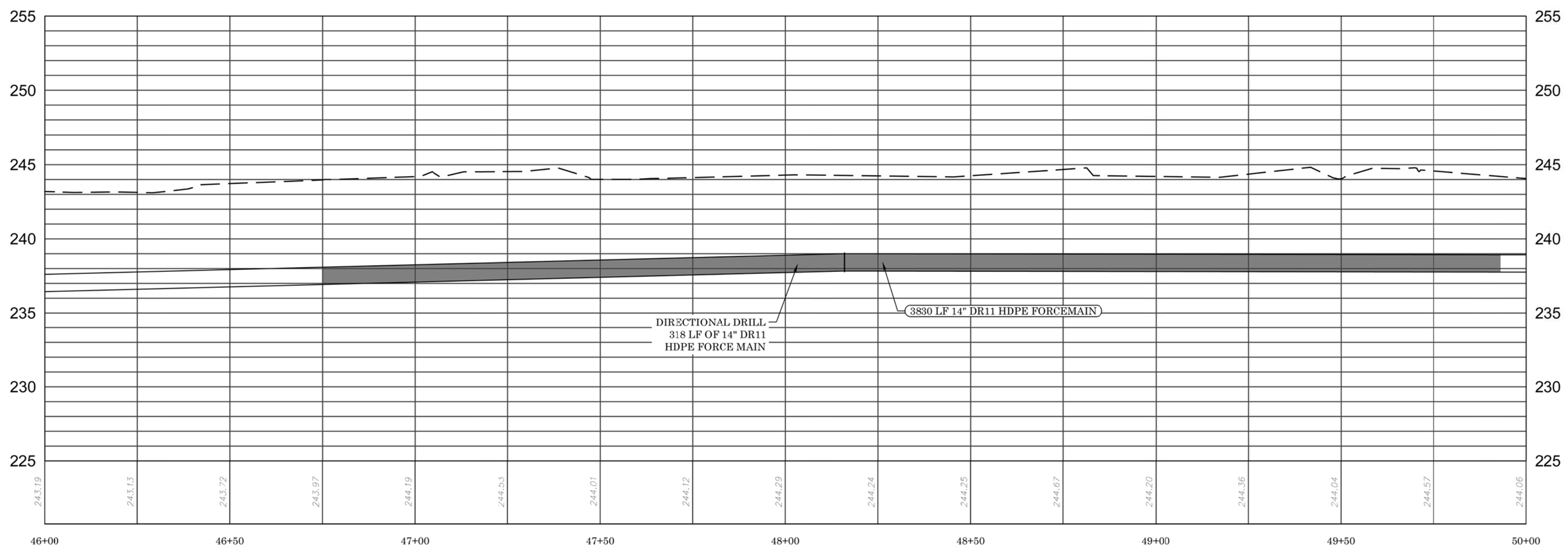
VALDOSTA, LOWNDES COUNTY, GEORGIA

20' 10' 0' 20'
GRAPHIC SCALE 1" = 20'

SHEET
C3.8 OF 40

Z:\Shared\AEC\Projects\2025\25-25058 Knights Academy Rd Lift Station Valdosta, GA\DWG\62082C_B01.dwg - 10/1/2025 2:23 PM





Forrest Street Extension Sanitary Sewer Road Center
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

SITE INFORMATION	
PROJECT ADDRESS	N FORREST ST EXT, VALDOSTA, GA 31605
PARCEL ZONING	PUBLIC ROW
PROJECT AREA / LENGTH	1.32 MILES

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PEF009117
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KAR LIFT STATION
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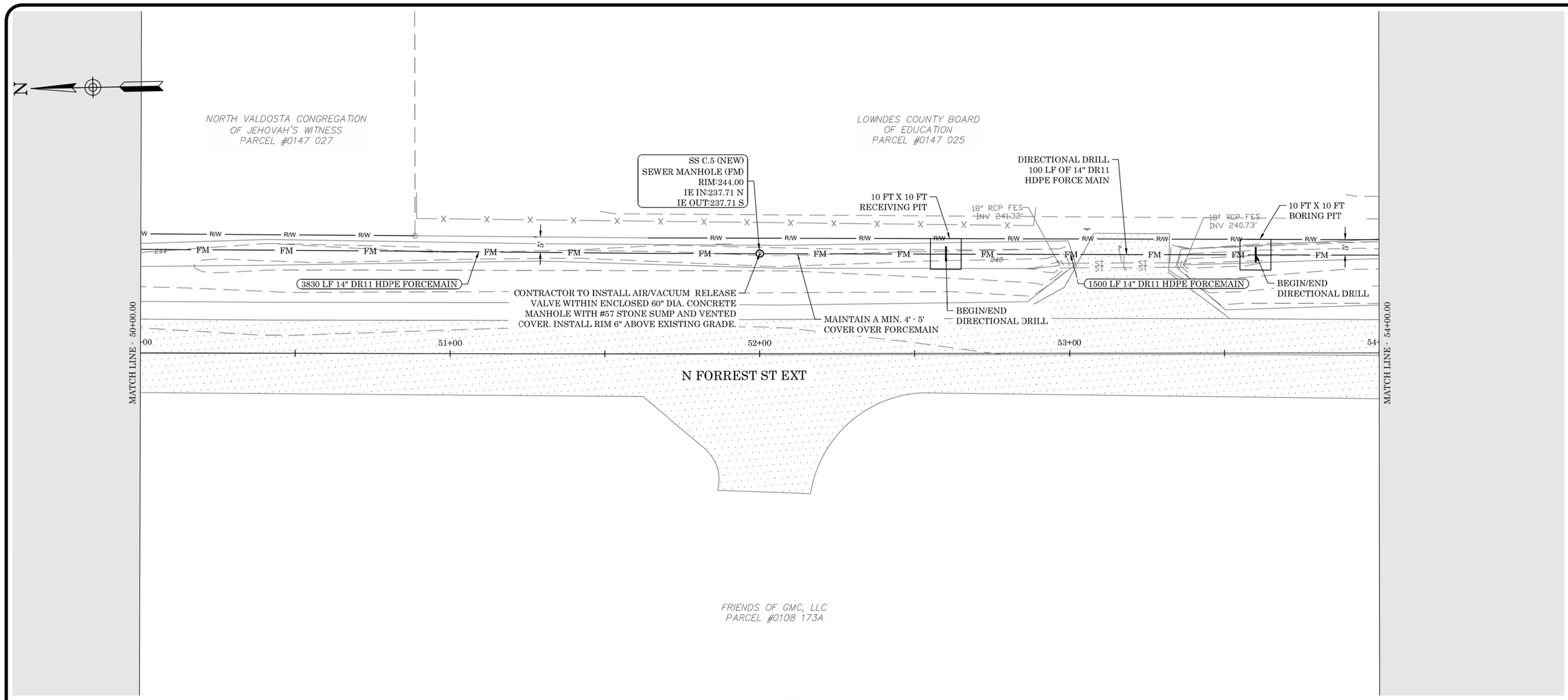

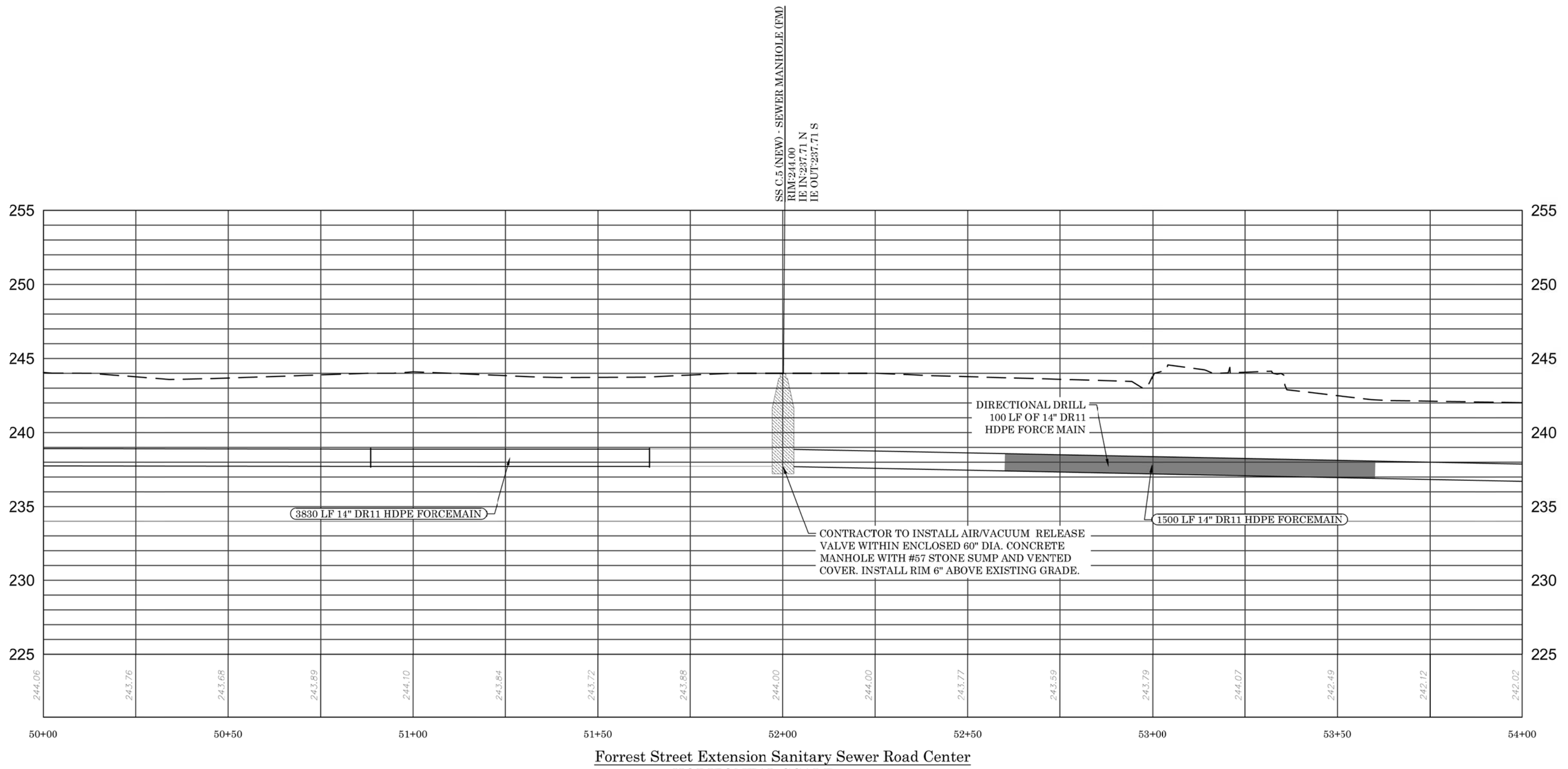

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GEORGIA REGISTERED No. PE039411 PROFESSIONAL 10/1/2025 ENGINEER B. MATTHEW LIMAN

AEC PROJECT NUMBER
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KAR LIFT STATION
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FORREST ST EXT - SITE AND DEMO PLAN

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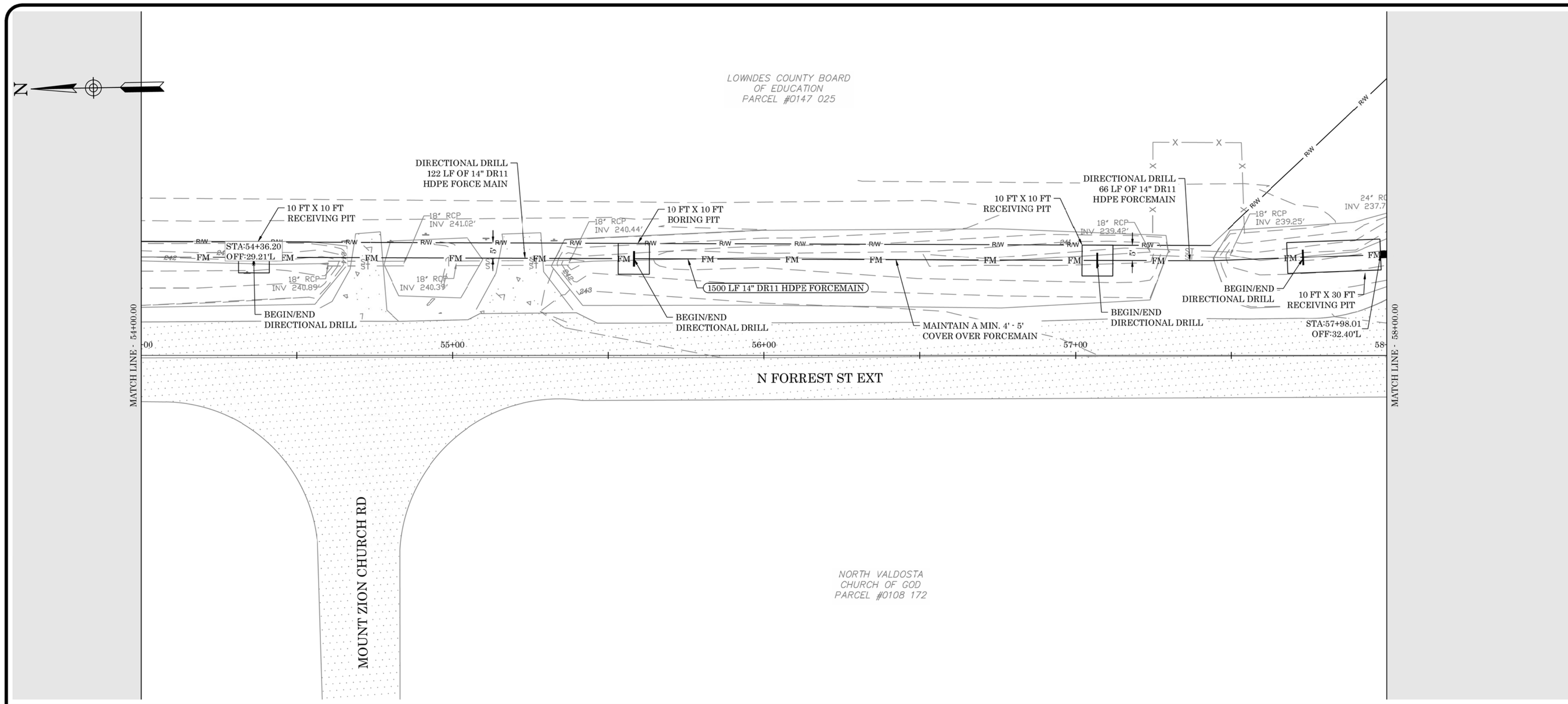

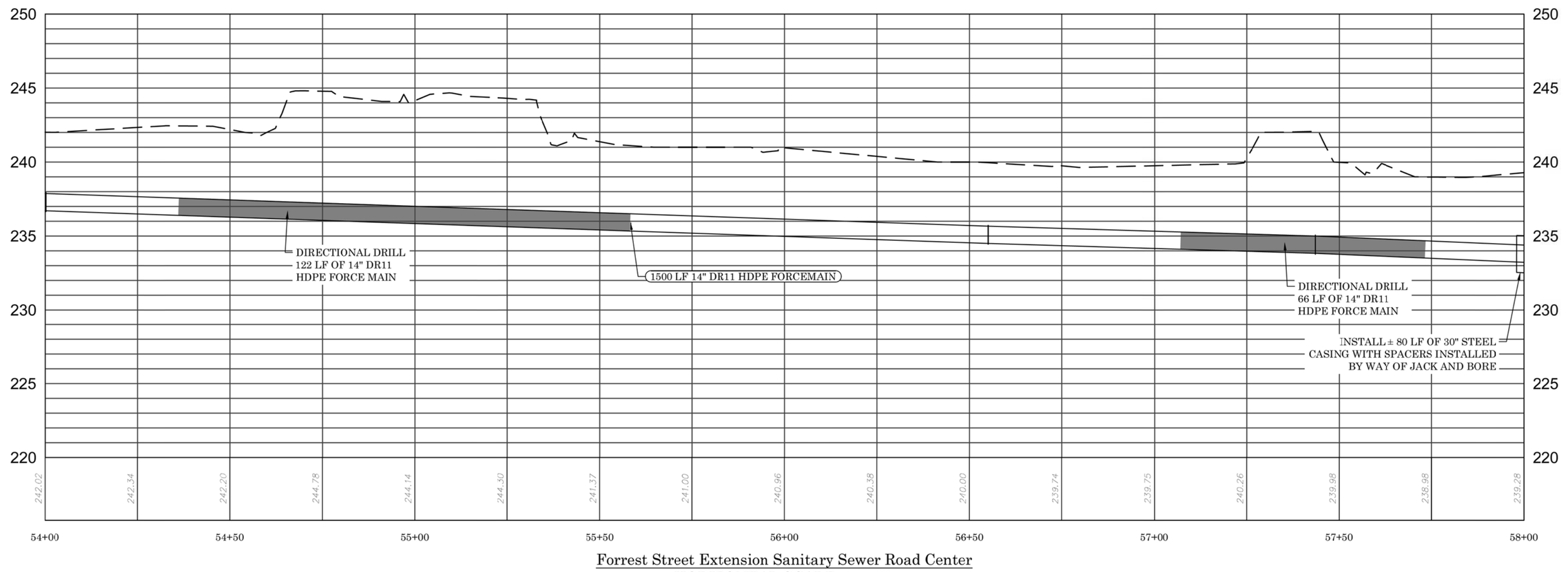

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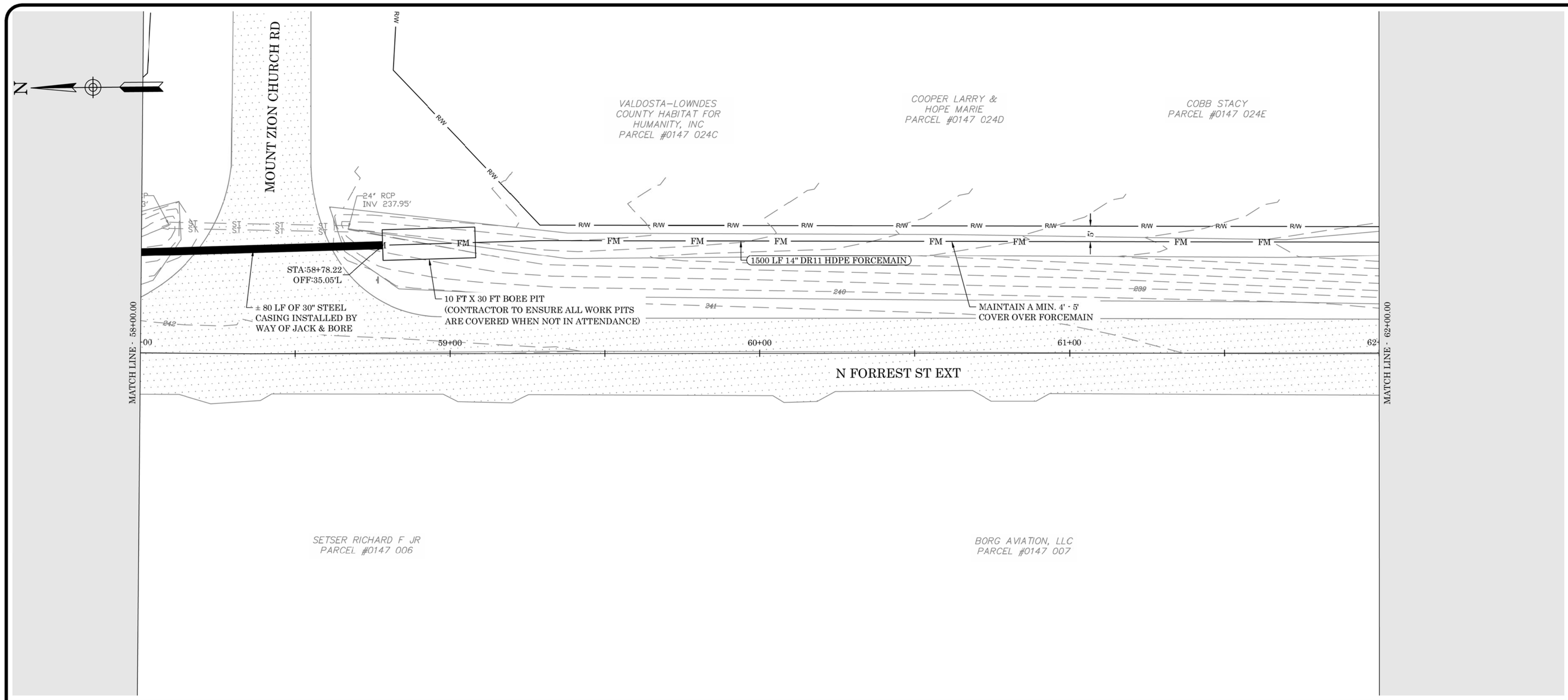

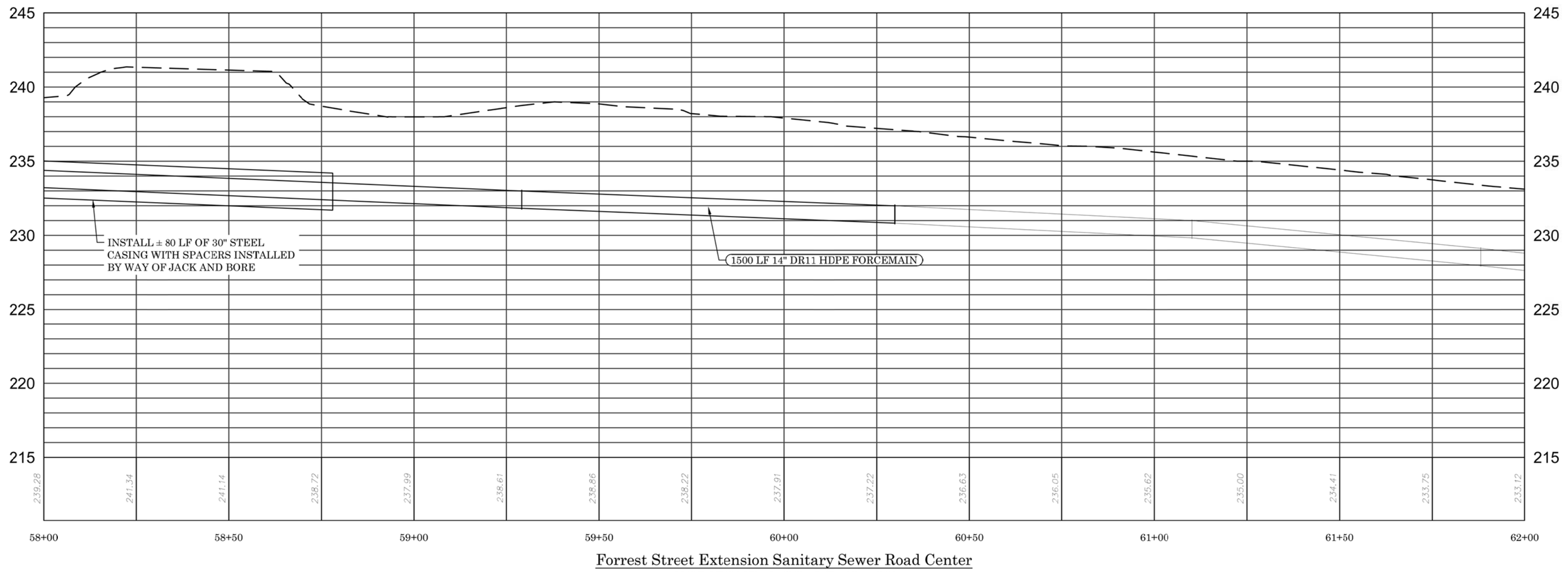

Forrest Street Extension Sanitary Sewer Road Center
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

SITE INFORMATION	
PROJECT ADDRESS	N FORREST ST EXT, VALDOSTA, GA 31605
PARCEL ZONING	PUBLIC ROW
PROJECT AREA / LENGTH	1.32 MILES

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EXISTING ASPHALT PAVEMENT

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GEORGIA811 www.Georgia811.com

GEORGIA CERTIFICATE OF AUTHORIZATION — AXIS ENGINEERING CONSULTANTS PEF009117 06/30/2026

GEORGIA REGISTERED No. PE033411 PROFESSIONAL 10/1/2025 ENGINEER B. MATTHEW LIMAN

AEC PROJECT NUMBER
25-25058

DATE OF PLANS
8/5/2025

REVISIONS

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KAR LIFT STATION
CITY OF VALDOSTA

FORREST ST EXT - SITE AND DEMO PLAN

VALDOSTA, LOWNDES COUNTY, GEORGIA

20' 10' 0' 20'
GRAPHIC SCALE 1" = 20'

SHEET
C3.12 OF 40

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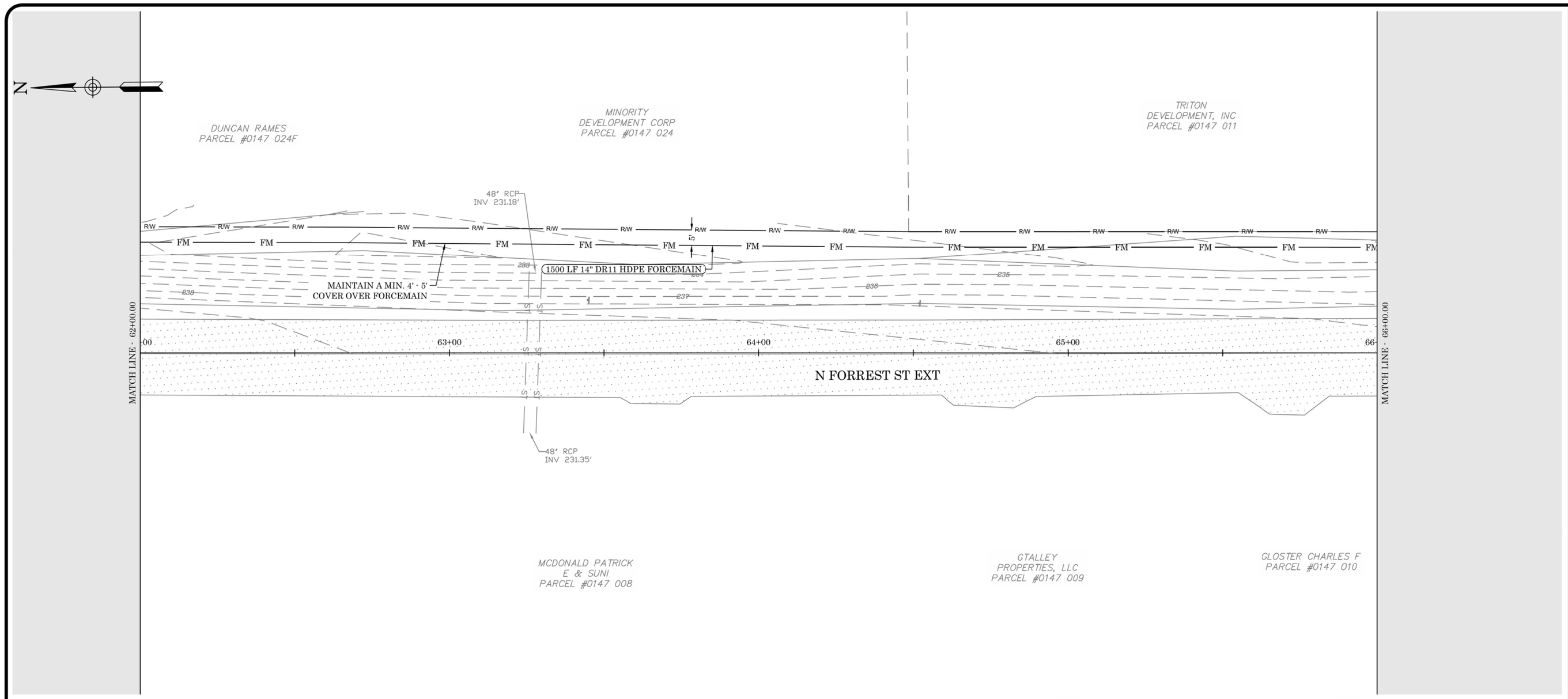

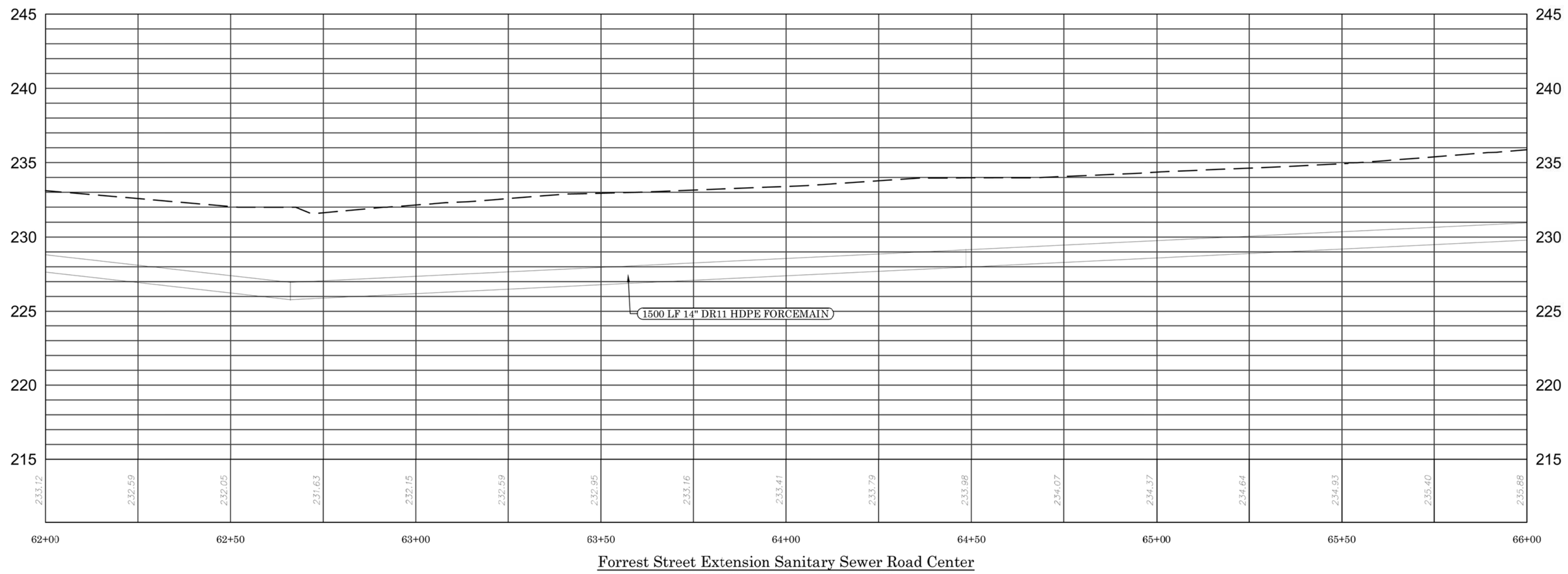

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PEF009117
06/30/2026
CERTIFICATE OF AUTHORIZATION

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REGISTERED
No. PE039411
PROFESSIONAL
10/1/2025
ENGINEER
B. MATTHEW LIMAN

AEC PROJECT NUMBER
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DATE OF PLANS
8/5/2025

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CITY OF VALDOSTA

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20' 10' 0' 20'
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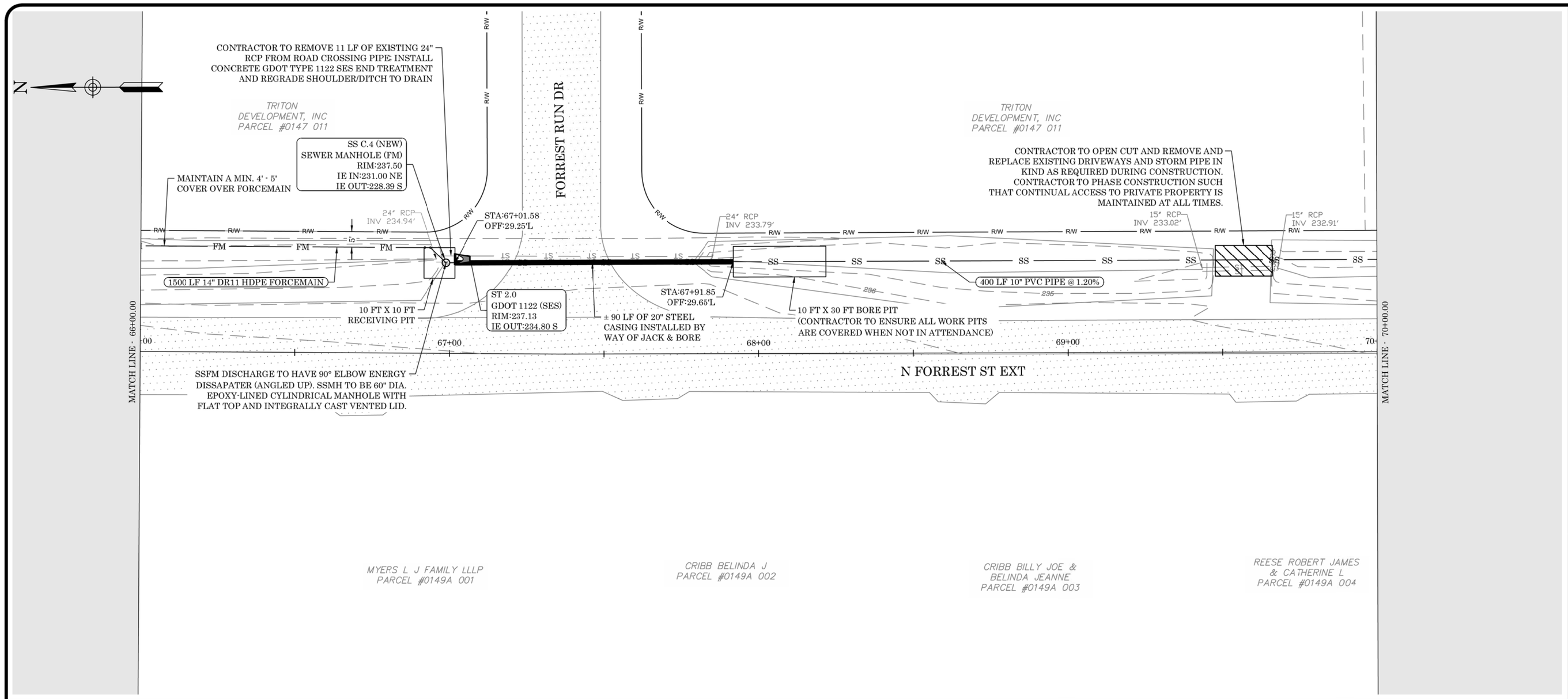

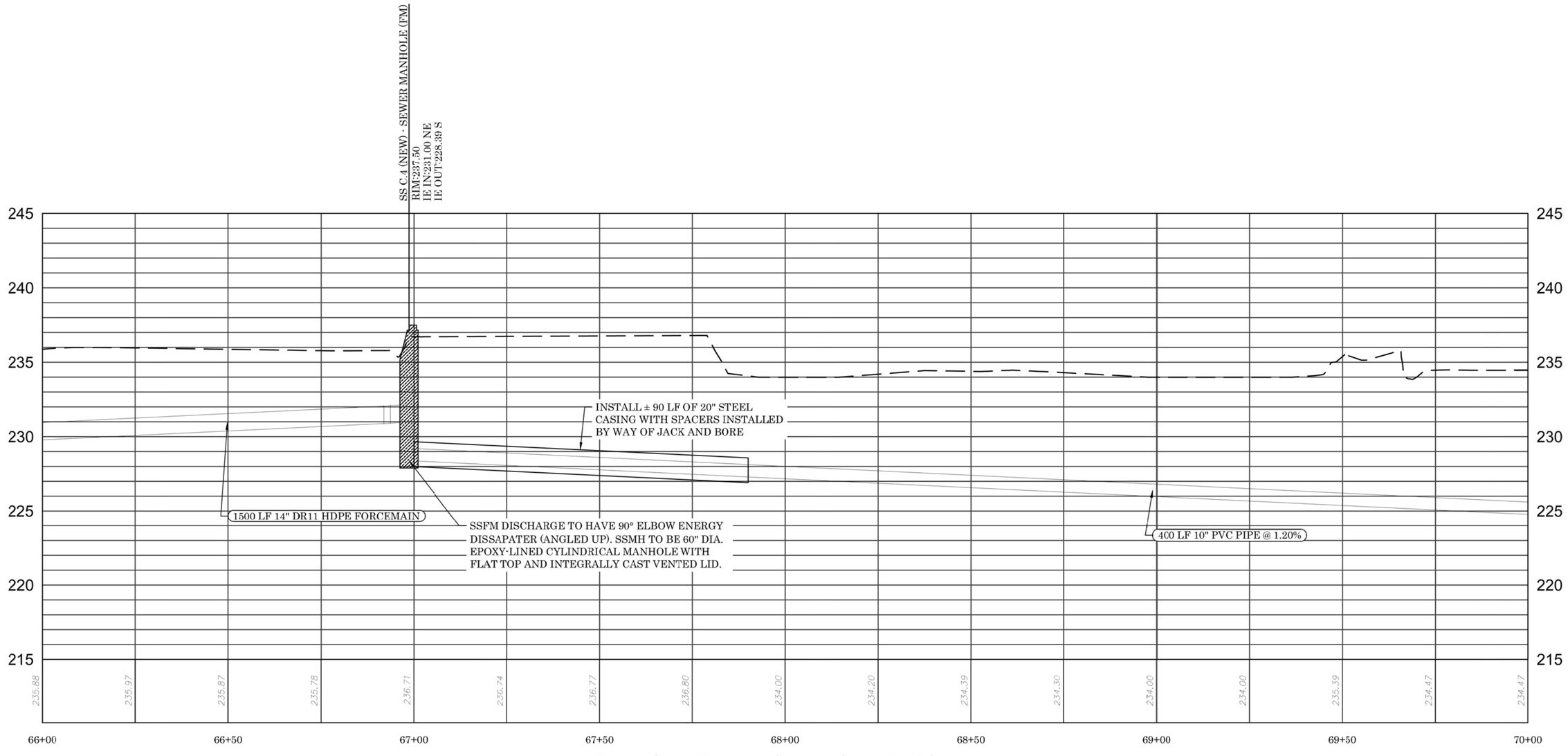

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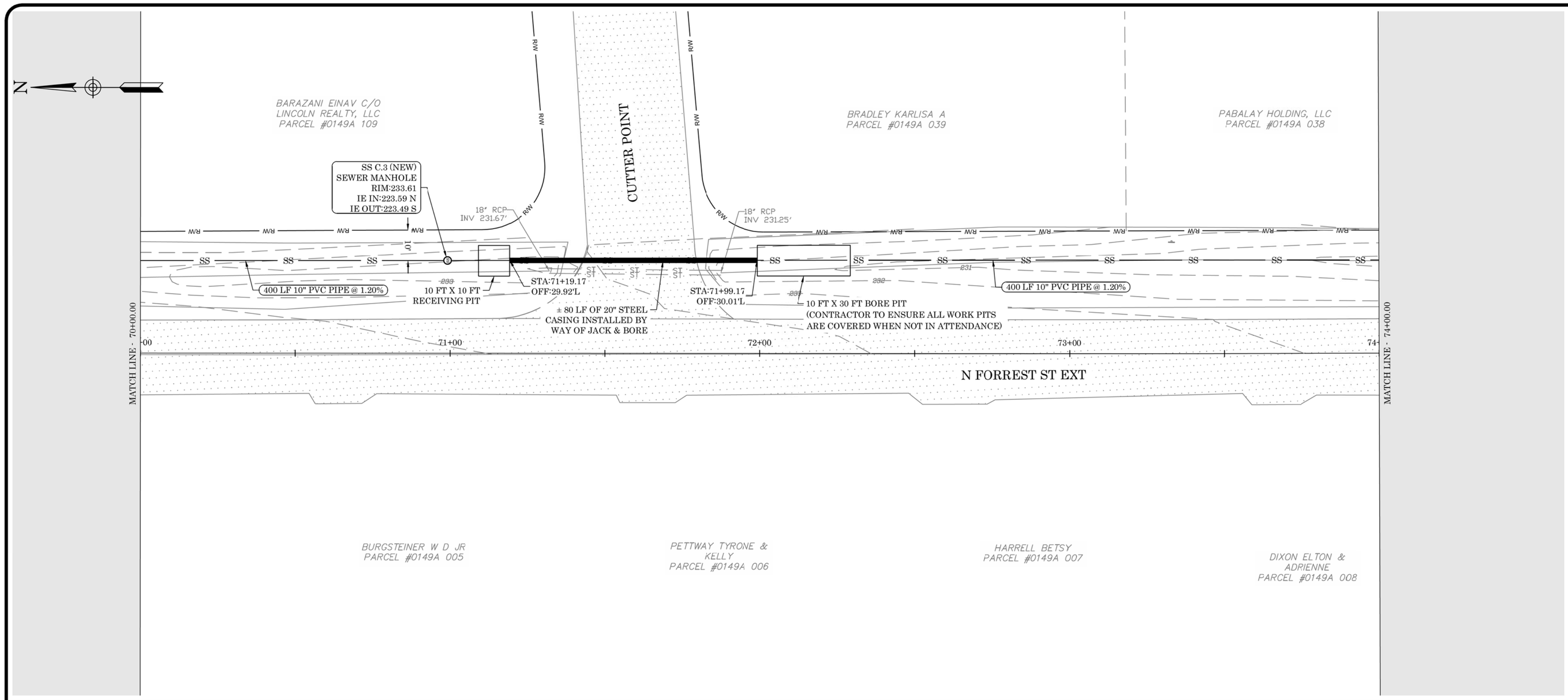

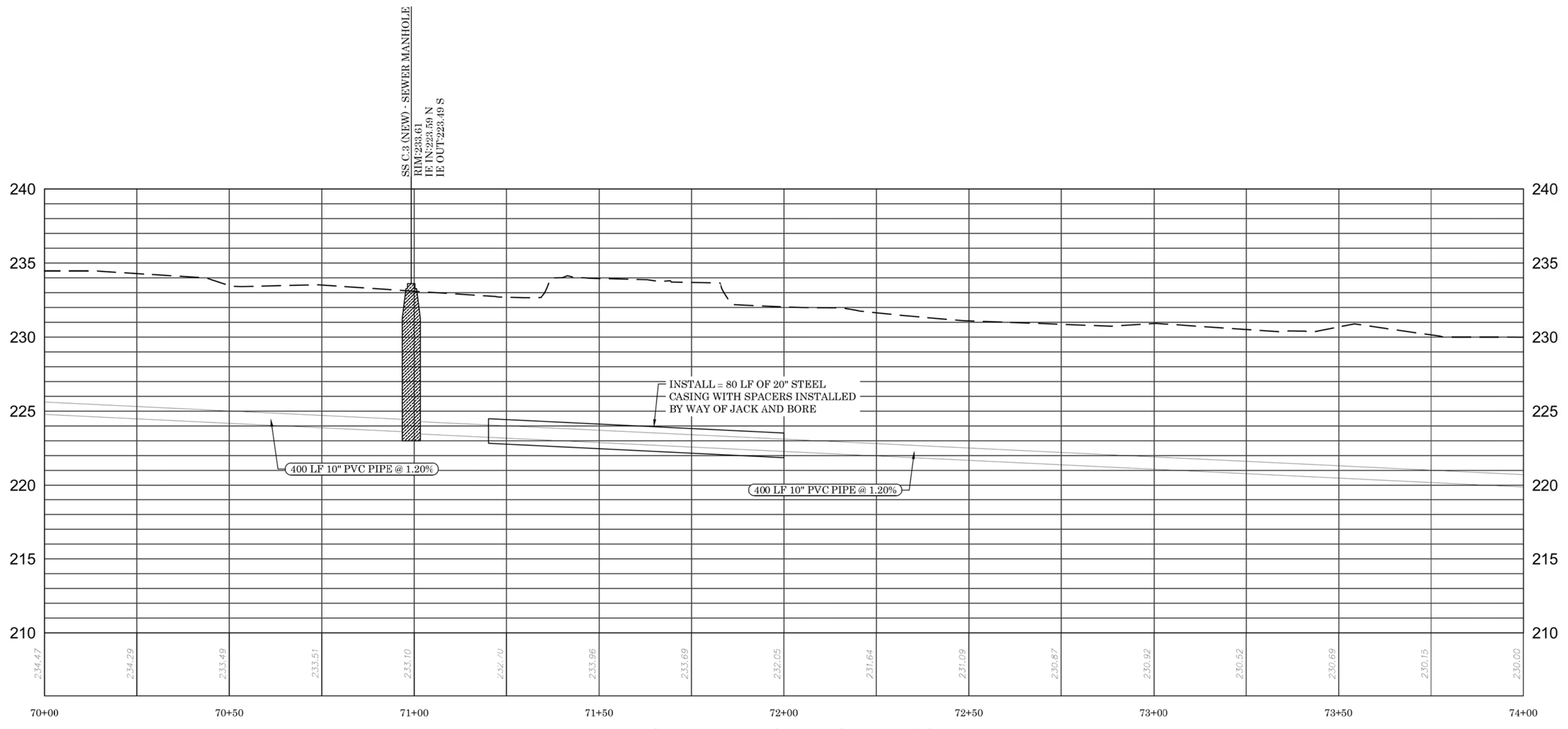

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4. TEN (10') FOOT HORIZONTAL & EIGHTEEN (18") INCH VERTICAL SEPARATION SHALL BE MAINTAINED BETWEEN ALL PROPOSED POTABLE WATER MAINS AND SANITARY SEWER MAINS.
5. FOUR (4') FOOT MINIMUM COVER SHALL BE MAINTAINED ABOVE ALL PROPOSED WATER MAINS AND SERVICE CONNECTIONS.
6. ALL WATER FIXTURES, APPURTENANCES AND CONSTRUCTION METHODS SHALL COMPLY WITH ALL LOCAL STANDARDS AND SPECIFICATION.
7. ALL SANITARY SEWER MAINS SHALL MEET THE SLOPE REQUIREMENTS AS STATED IN THE TEN STATE STANDARDS FOR WASTEWATER FACILITIES - LATEST EDITION. SANITARY SEWER SERVICE CONNECTIONS SHALL MAINTAIN 1% MINIMUM SLOPE UNLESS OTHERWISE NOTED.
8. ALL SANITARY SEWER CONSTRUCTION SHALL COMPLY WITH ALL LOCAL STANDARDS AND SPECIFICATIONS.
9. THE CONTRACTOR SHALL ADJUST THE TOPS OF ALL EXISTING AND PROPOSED UTILITY STRUCTURES TO MATCH FINAL GRADE ELEVATIONS UNLESS OTHERWISE STATED. UTILITY STRUCTURE TOPS SHOULD HAVE LOCKABLE HINGED COVERS. UTILITY STRUCTURES INSTALLED WITHIN A DITCH SECTION SHOULD BE INSTALLED SIX (6") INCHES ABOVE EXISTING GRADE.

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GEORGIA
AXIS ENGINEERING CONSULTANTS
PEF009117
06/30/2026
CERTIFICATE OF AUTHORIZATION

GEORGIA
REGISTERED
No. PE039411
PROFESSIONAL
10/1/2025
ENGINEER
B. MATTHEW LIMAN

AEC PROJECT NUMBER
25-25058

DATE OF PLANS
8/5/2025

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10	-	-

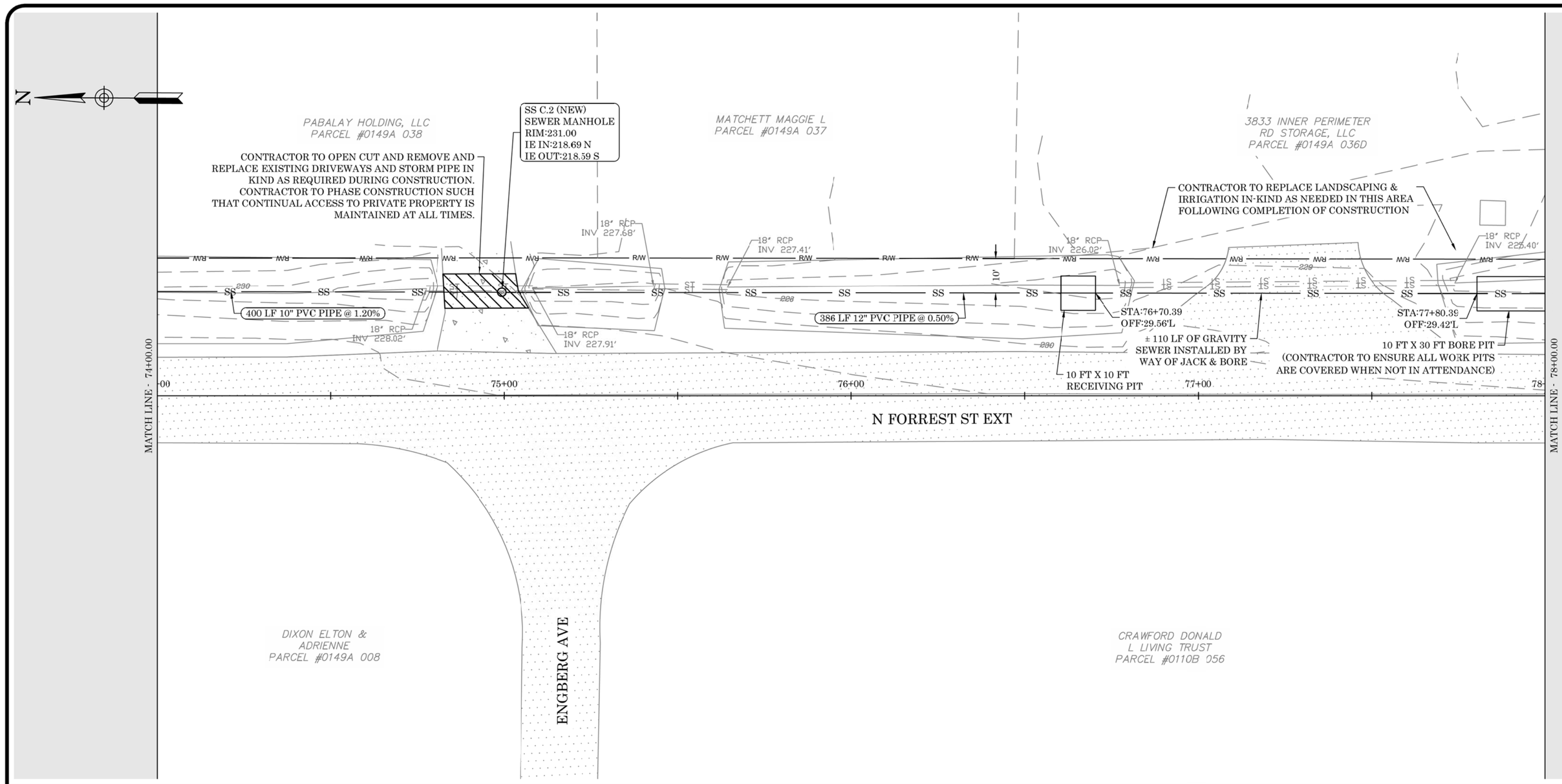
KAR LIFT STATION
CITY OF VALDOSTA

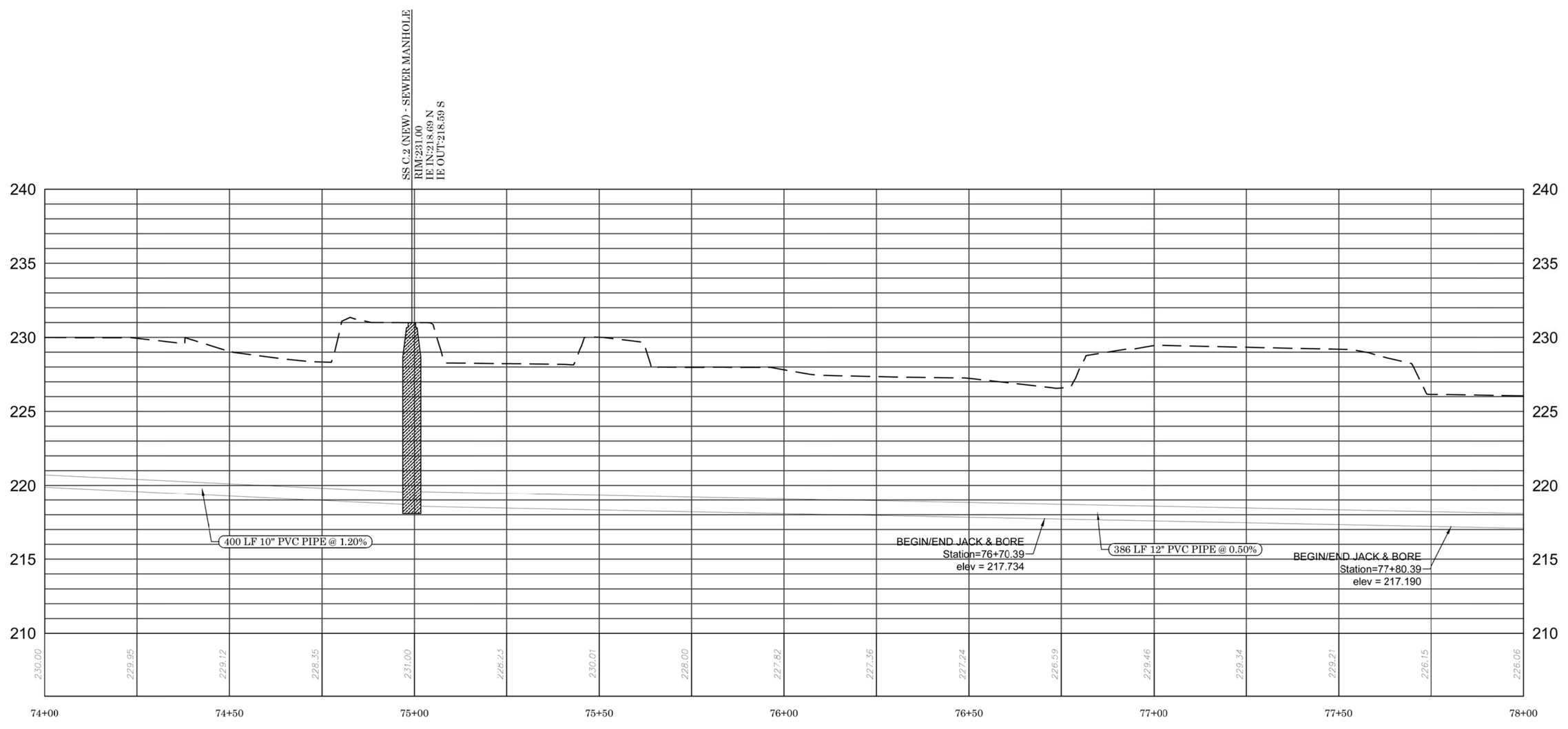
FORREST ST EXT - SITE AND DEMO PLAN

VALDOSTA, LOWNDES COUNTY, GEORGIA

20' 10' 0' 20'
GRAPHIC SCALE 1" = 20'

SHEET
C3.15 OF 40





Forrest Street Extension Sanitary Sewer Road Center
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

SITE INFORMATION	
PROJECT ADDRESS	N FORREST ST EXT, VALDOSTA, GA 31605
PARCEL ZONING	PUBLIC ROW
PROJECT AREA / LENGTH	1.32 MILES

EXISTING CONDITIONS & DEMOLITION NOTES:

1. THE TOPOGRAPHIC WAS PROVIDED BY CARTER SURVEYING, LLC AND DATED MARCH 23, 2023. A COPY CAN BE PROVIDED UPON WRITTEN REQUEST.
2. THE CONTRACTOR SHALL REVIEW ALL DOCUMENTS AND OBTAIN FIRST HAND KNOWLEDGE OF THE PROJECT AREA. IF ANY DISCREPANCY ARE DISCOVERED NOTIFY THE ENGINEER IN WRITING WITHIN 24 HOURS.
3. THE CONTRACTOR SHALL PROVIDE 72 HOUR NOTICE THE THE UTILITIES PROTECTION CENTER PRIOR TO CONSTRUCTION COMMENCEMENT OR EXCAVATION. THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION FOR ALL EXISTING UTILITIES WITHIN THE CONSTRUCTION AREA AND REPAIR ANY UTILITIES DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER/DEVELOPER.
4. THE CONTRACTOR SHALL COORDINATE ALL UTILITY DISCONNECTIONS / INTERRUPTIONS WITH THE UTILITY OWNER.
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7. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO PROTECT ALL TREES NOT SHOWN HEREON TO BE REMOVED AND PROVIDE ADEQUATE TREE PROTECTION AROUND THE CRITICAL ROOT ZONE FOR SUCH TREES.
8. ALL ITEMS INDICATED HEREON TO BE REMOVED / DEMOLISHED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF PROPERLY UNLESS OTHERWISE STATED WITHIN THE CONSTRUCTION CONTRACT.
9. ALL EXISTING ASPHALT / CONCRETE PAVEMENT & CURB SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR / REPLACEMENT OF ANY DAMAGED AREAS.

GENERAL SITE NOTES:

1. HANDICAPPED PARKING AND ACCESSIBLE ROUTES SHALL MEET THE AMERICANS WITH DISABILITIES ACTS STANDARDS FOR ACCESSIBLE DESIGN - LATEST EDITION. SIDEWALKS SHALL NOT EXCEED 5% MAXIMUM LONGITUDINAL SLOPE AND 2% MAXIMUM CROSS SLOPE. ACCESSIBLE PARKING STALLS SHALL NOT EXCEED 2% MAXIMUM SLOPE IN ALL DIRECTIONS. ACCESSIBLE RAMPS SHALL NOT EXCEED 12H:1V GRADE.
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4. HORIZONTAL DATA SHOWN HEREON IS BASED ON NAD83 GEORGIA STATE PLANES, WEST ZONE, US FOOT. VERTICAL DATA SHOWN HEREON IS BASED ON NAVD 88(12B).

HATCH LEGEND:

EXISTING ASPHALT PAVEMENT

EXISTING CONCRETE SIDEWALK / PAVEMENT

DEMOLITION AREA

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AXIS ENGINEERING CONSULTANTS
PEF009117
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GEORGIA REGISTERED PROFESSIONAL ENGINEER
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B. MATTHEW LIMAN

AEC PROJECT NUMBER
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DATE OF PLANS
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KAR LIFT STATION
CITY OF VALDOSTA

FORREST ST EXT - SITE AND DEMO PLAN

VALDOSTA, LOWNDES COUNTY, GEORGIA

20' 10' 0' 20'
GRAPHIC SCALE 1" = 20'

SHEET
C3.16 OF 40

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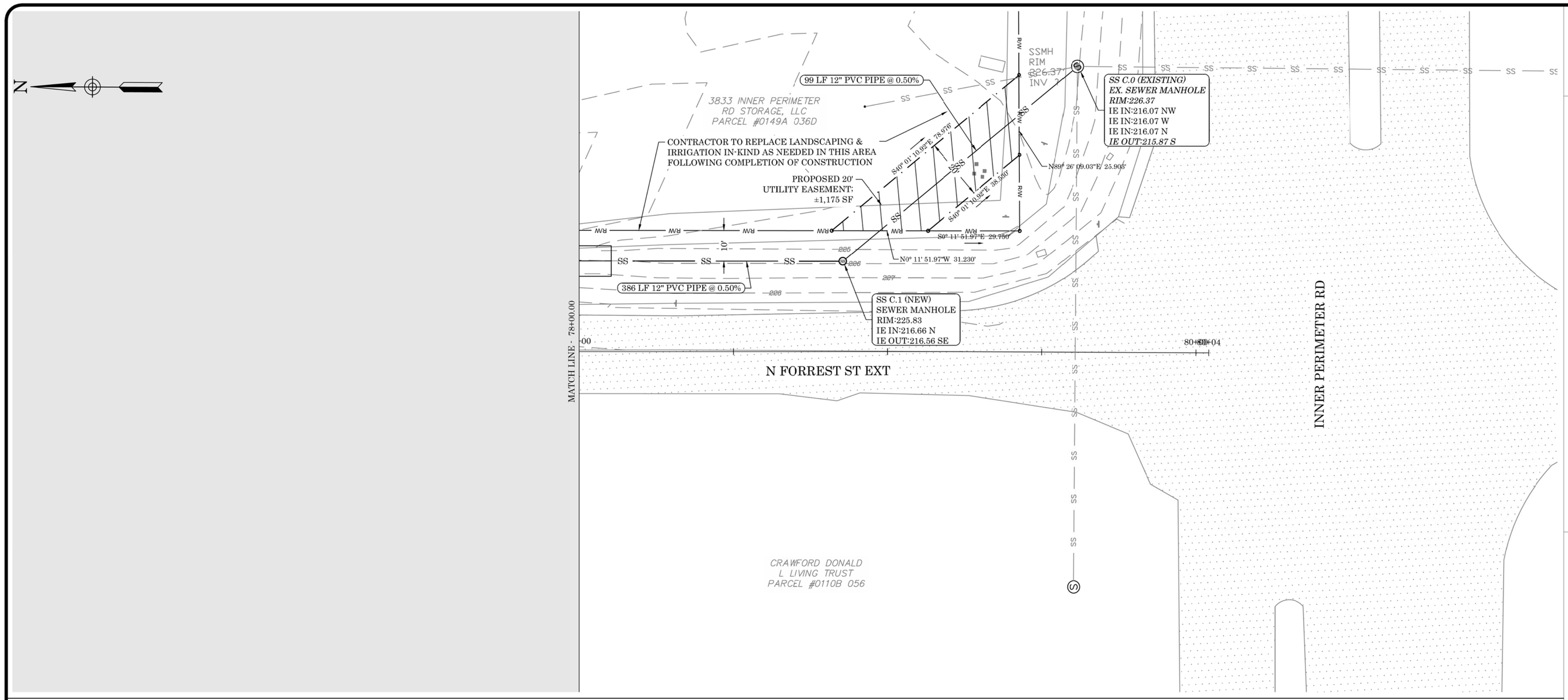

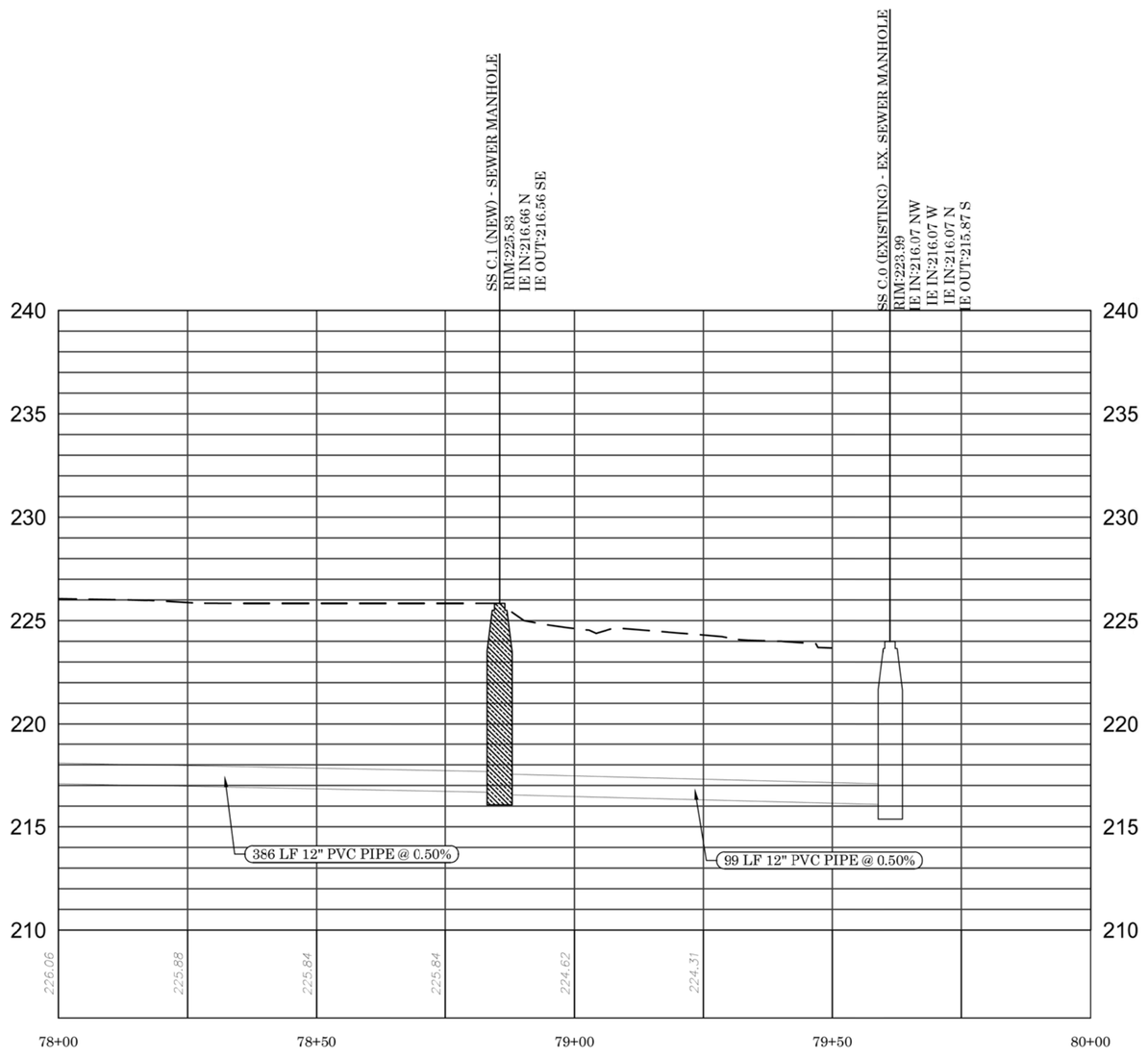

Forrest Street Extension Sanitary Sewer Road Center
HORIZONTAL SCALE: 1" = 20'
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GEORGIA CERTIFICATE OF AUTHORIZATION — AXIS ENGINEERING CONSULTANTS PEF009117 06/30/2026

GEORGIA REGISTERED No. PE039411 PROFESSIONAL 10/1/2025 ENGINEER B. MATTHEW LAMAN

AEC PROJECT NUMBER
25-25058

DATE OF PLANS
8/5/2025

REVISIONS

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3	-	-
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5	-	-
6	-	-
7	-	-
8	-	-
9	-	-
10	-	-

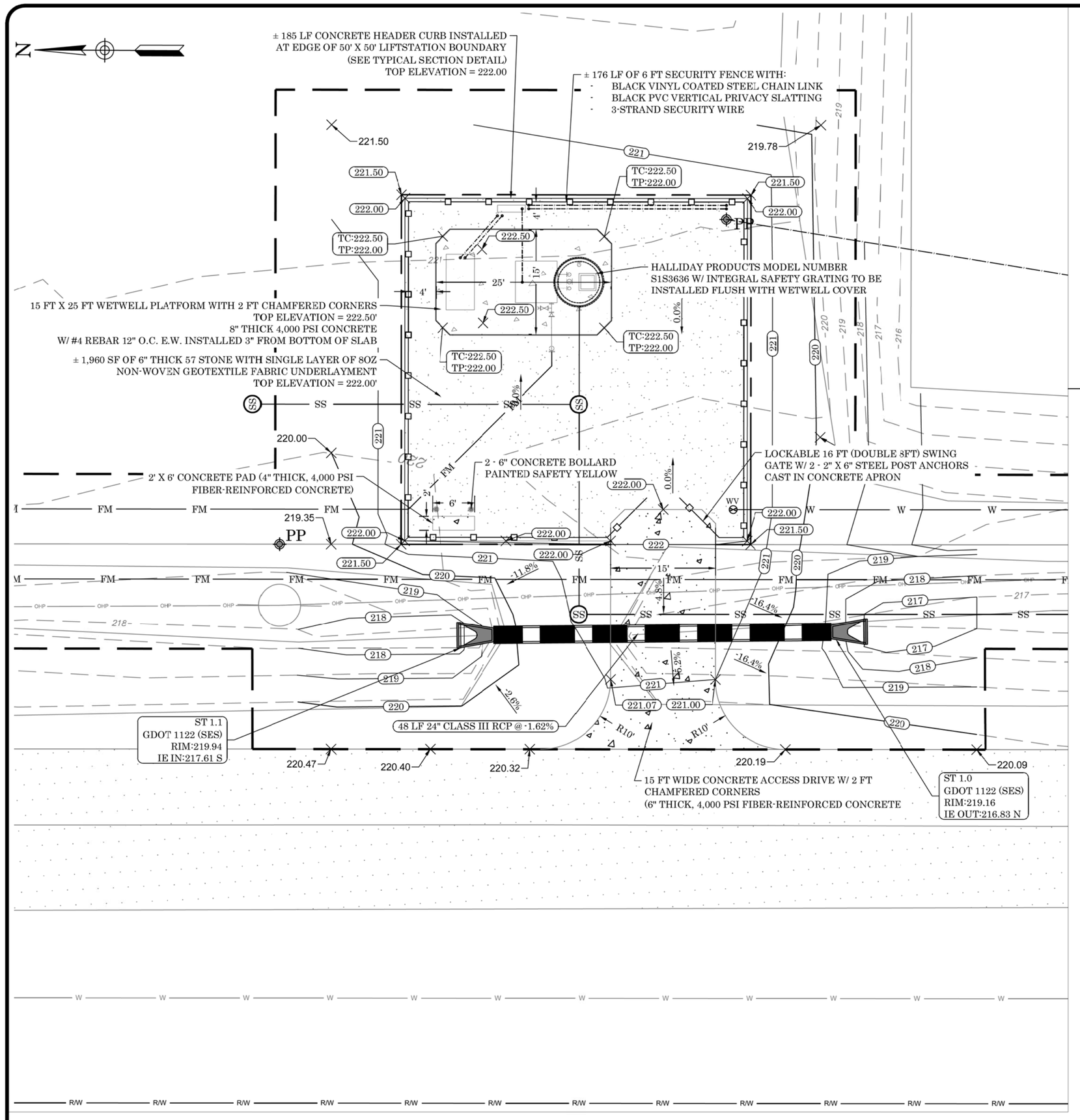
KAR LIFT STATION
CITY OF VALDOSTA

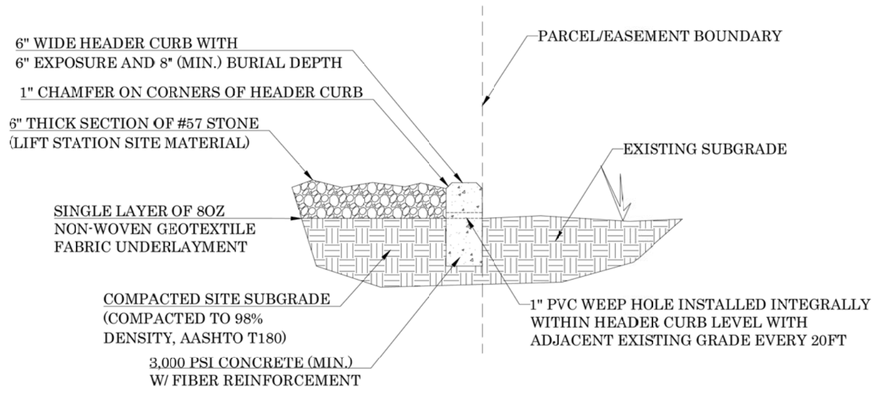
FORREST ST EXT - SITE AND DEMO PLAN

VALDOSTA, LOWNDES COUNTY, GEORGIA

20' 10' 0' 20'
GRAPHIC SCALE 1" = 20'

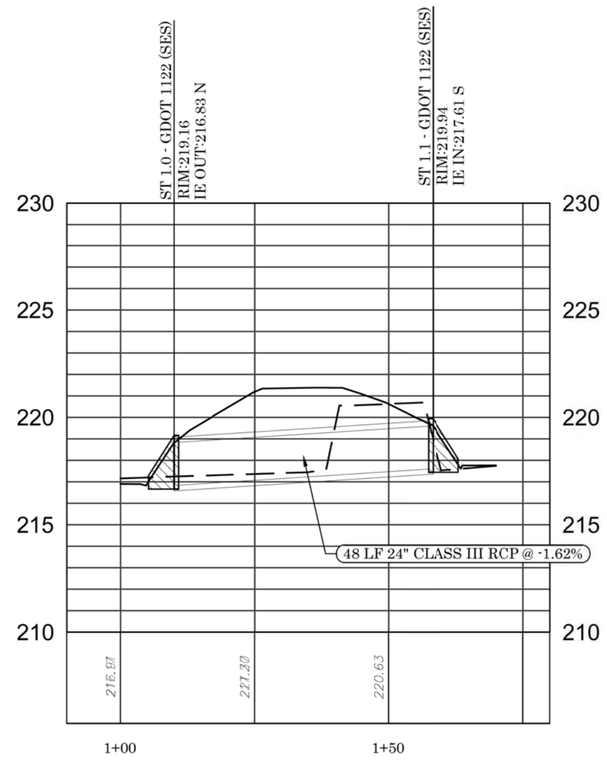
SHEET
C3.17 OF 40





HEADER CURB DETAIL

N.T.S.



ST 3.0 - ST 3.1 ALIGNMENT
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

SITE INFORMATION	
PROJECT ADDRESS	################, ##################
PARCEL ZONING	##########
PROJECT AREA / LENGTH	1.32 MILES

SITE LAYOUT AND GRADING NOTES:

1. DEMOLITION SHOWN ON THIS PLAN IS A SCHEMATIC REPRESENTATION OF DEMOLITION REQUIRED THE ACCOMPLISH THE WORK. ADDITIONAL DEMOLITION MAY BE REQUIRED BEYOND THE ESTIMATED QUANTITIES SHOWN HEREON.
2. CONTRACTOR TO MULCH/REMOVE EXISTING VEGETATION WITHIN THE LIFT STATION SITE AND GRADING AREA.
3. CONTRACTOR TO COORDINATE RELOCATION OF EXISTING POWER SERVICE AS REQUIRED WITH GEORGIA POWER/COLQUITT EMC.
4. CONTRACTOR TO REMOVE ANY FOREIGN MATERIAL IDENTIFIED BELOW EXISTING GRADE DURING CONSTRUCTION.
5. CONTRACTOR TO PROVIDE CONTINUAL SANITARY SEWER SERVICE TO EXISTING CUSTOMERS DURING CONSTRUCTION OF THE IMPROVEMENTS. THE CONTRACTOR MAY MAKE SELECTIVE USE OF THE EXISTING INFRASTRUCTURE AND PHASE DEMOLITION SUFFICIENT TO ACCOMPLISH CONTINUAL SERVICE.
6. CONTRACTOR TO MAINTAIN THE LIFT STATION IN A SECURE AND SAFE MANNER DURING CONSTRUCTION.

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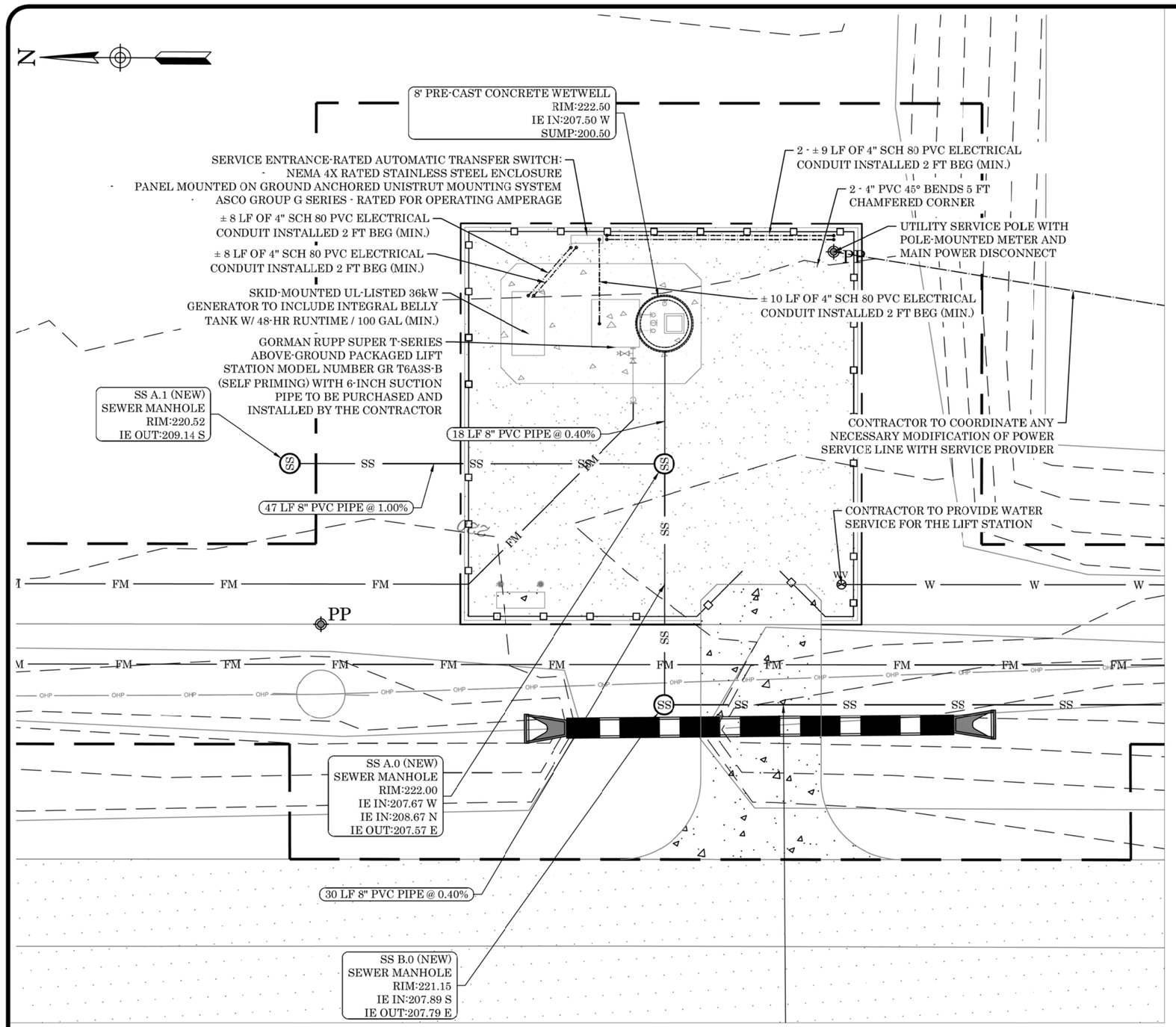
KAR LIFT STATION
CITY OF VALDOSTA

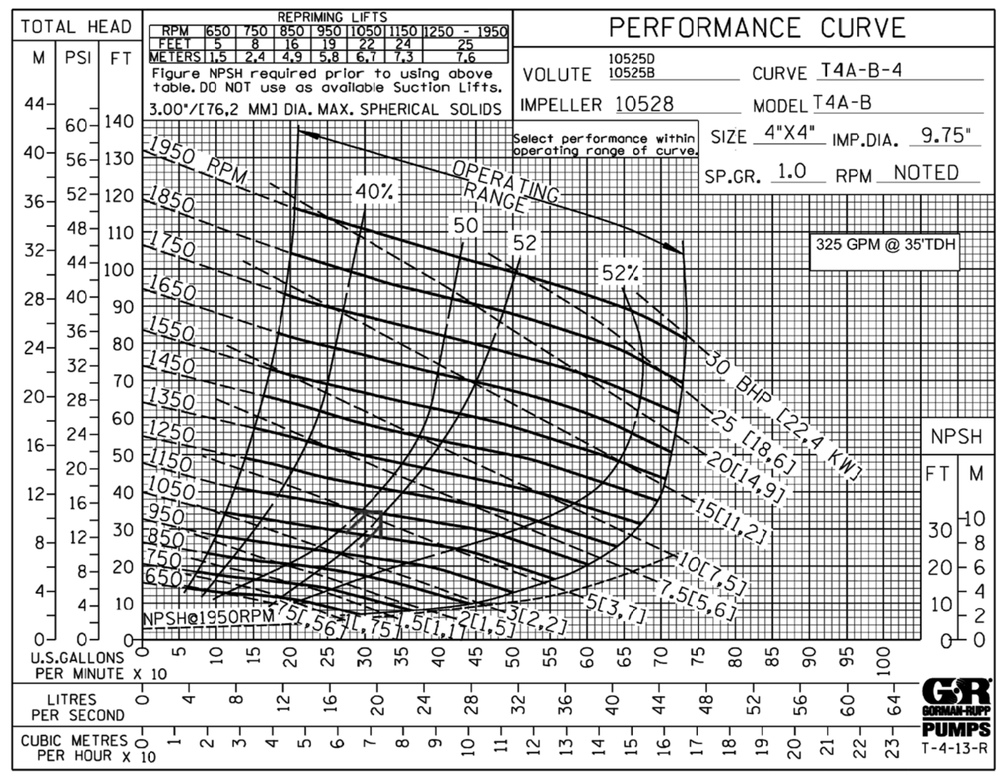
SITE LAYOUT & GRADING PLAN

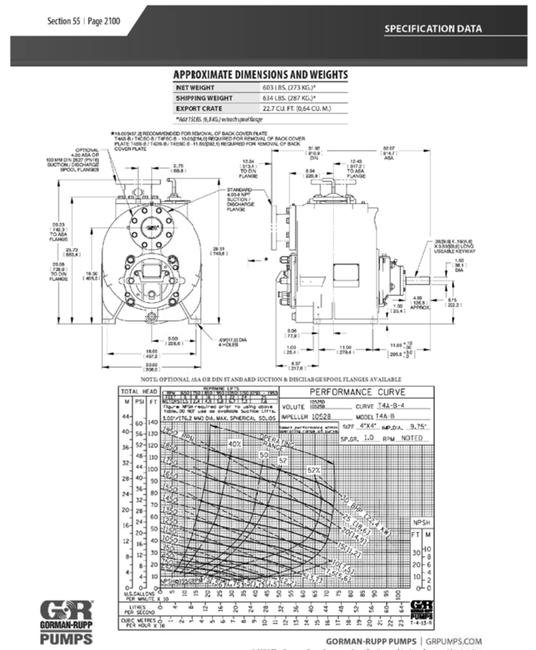
VALDOSTA, LOWNDES COUNTY, GEORGIA

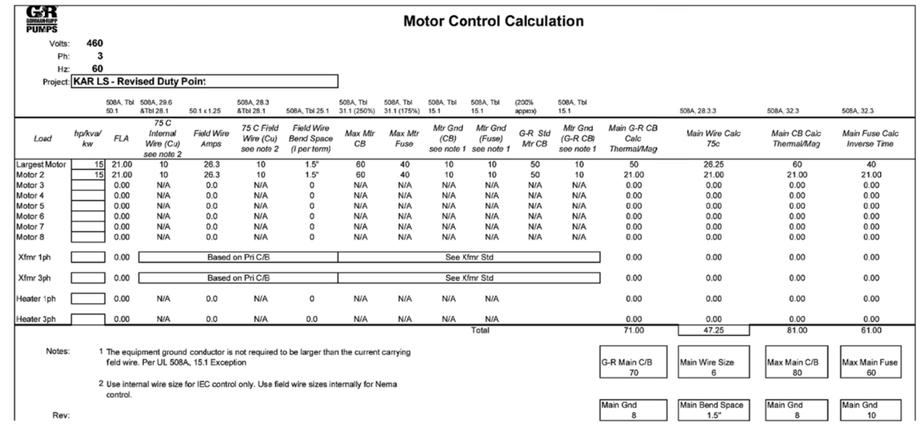
10' 5' 0' 10'
GRAPHIC SCALE 1" = 10'

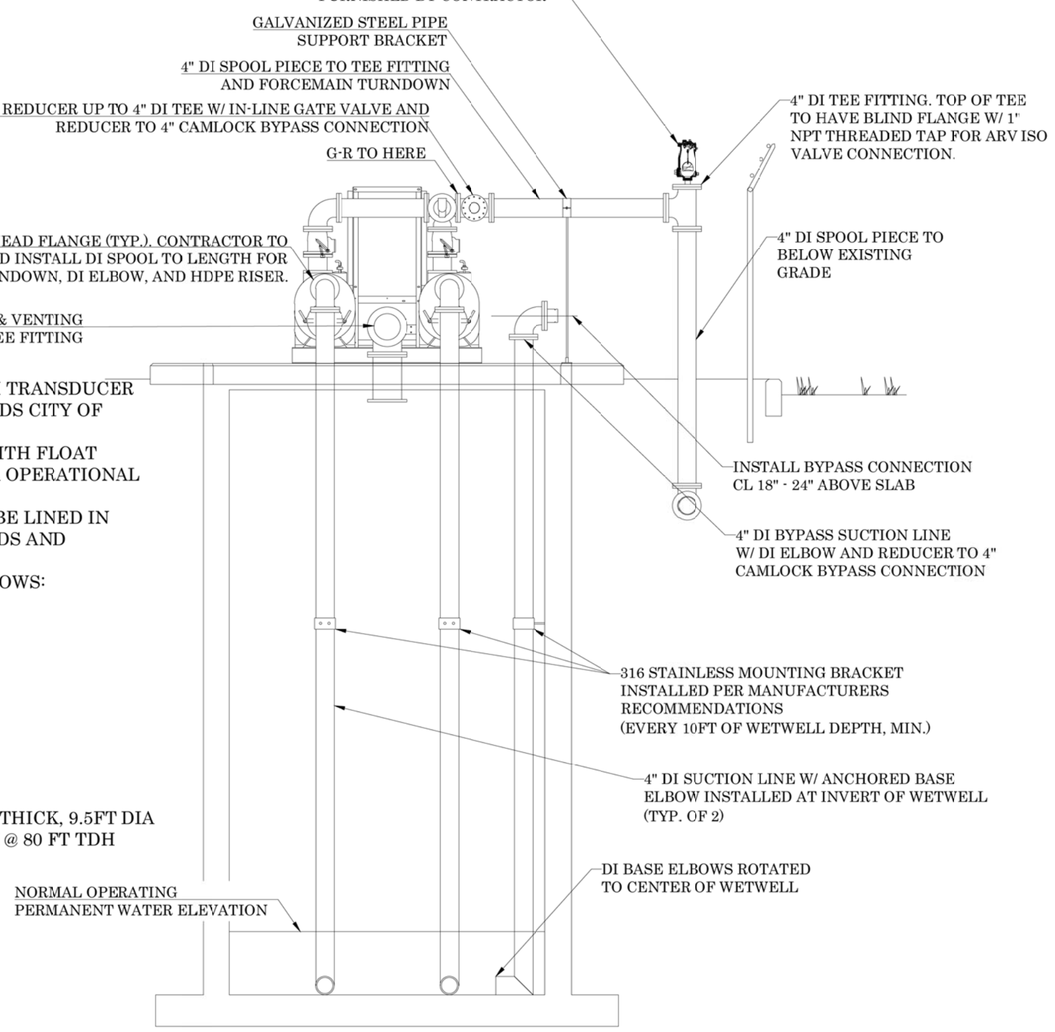
SHEET
C3.18 OF 40











NOTES:

1. PRIMARY LEVEL SENSING TO BE ACCOMPLISHED WITH TRANSDUCER LEVEL SENSING EQUIPMENT WHICH MEETS OR EXCEEDS CITY OF VALDOSTA OPERATIONAL REQUIREMENTS.
2. SECONDARY LEVEL SENSING TO BE ACCOMPLISHED WITH FLOAT SENSORS WHICH MEET OR EXCEED CITY OF VALDOSTA OPERATIONAL REQUIREMENTS.
3. ALL MANHOLES AND LIFT STATION WET WELL SHALL BE LINED IN ACCORDANCE WITH THE CITY OF VALDOSTA STANDARDS AND SPECIFICATIONS FOR UTILITY CONSTRUCTION.
4. LIFT STATION OPERATIONAL SET-POINTS ARE AS FOLLOWS:
   - 4.1. RIM ELEVATION = 222.50'
   - 4.2. SUMP ELEVATION = 200.50'
   - 4.3. INFLUENT INVERT ELEVATION = 207.50'
   - 4.4. ALL OFF = 202.50'
   - 4.5. LEAD ON ELEVATION = 205.50'
   - 4.6. LAG ON ELEVATION = 206.50'
   - 4.7. HIGH WATER ELEVATION = 207.50'
5. WET WELL CHARACTERISTICS ARE AS FOLLOWS:
   - 5.1. WET WELL DIAMETER = 8FT
   - 5.2. WET WELL DEPTH = 22FT
   - 5.3. WET WELL INTEGRAL ANTI-FLOTATION BASE = 12" THICK, 9.5FT DIA
6. DESIGN DUTY POINT FOR PUMP SELECTION IS 400 GPM @ 80 FT TDH

LIFT STATION - COMPOSITE SECTION DETAIL

N.T.S.

SITE INFORMATION	
PROJECT ADDRESS	################, ##################
PARCEL ZONING	##########
PROJECT AREA / LENGTH	1.32 MILES

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9. THE CONTRACTOR SHALL ADJUST THE TOPS OF ALL EXISTING AND PROPOSED UTILITY STRUCTURES TO MATCH FINAL GRADE ELEVATIONS UNLESS OTHERWISE STATED. UTILITY STRUCTURE TOPS SHOULD HAVE LOCKABLE HINGED COVERS. UTILITY STRUCTURES INSTALLED WITHIN A DITCH SECTION SHOULD BE INSTALLED SIX (6") INCHES ABOVE EXISTING GRADE.

SITE PLMBING AND ELECTRICAL NOTES:

1. ALL DUCTILE IRON PIPING TO BE INSTALLED AND COATED (INTERIOR AND EXTERIOR) IN ACCORDANCE WITH CITY OF VALDOSTA OPERATIONAL REQUIREMENTS.
   - 1.1. PUMP LOWER ELBOWS, RISER PIPES, UPPER ELBOWS, AND ABOVE GROUND PIPING SHALL BE COATED INSIDE WITH TNEMEC SERIES 431 PERMA-SHIELD PL OR APPROVED ALT.
   - 1.2. ALL INTERIOR WET WELL PIPES AND ELBOWS INCLUDING PUMP LOWER ELBOWS SHALL BE COATED OUTSIDE WITH TNEMEC SERIES 431 PERMA-SHIELD PL OR APPROVED ALT.
   - 1.3. ALL ABOVE GROUND PIPING SHALL BE PAINTED USING SHERWIN-WILLIAMS ACROLON 218 HS GLOSS POLYURETHANE SW 4372 CEDAR GREEN TOP COAT. BASE COAT FOR THE SHERWIN-WILLIAMS TOP COAT IS SHERWIN-WILLIAMS MACRO-POXY 646.
2. CONTRACTOR TO PROVIDE FINAL SHOP DRAWINGS/SPECIFICATIONS FOR GR PACKAGED LIFT STATION, SKID-MOUNTED GENERATOR ASSY., WETWELL LID, AND WETWELL BASE SECTION FOR REVIEW FOR CONFORMITY WITH CITY OF VALDOSTA OPERATIONAL REQUIREMENTS PRIOR TO PURCHASE.
3. CONTRACTOR TO VERIFY GENERATOR WATTAGE REQUIREMENTS BASED ON PUMP CONTROL PANEL SCHEDULE PRIOR TO PURCHASE.
4. CONTRACTOR TO PURCHASE AND INSTALL GENERATOR, AUTOMATIC TRANSFER SWITCH, SITE WIRING AND CONDUIT. THE SITE CONDUIT SHOWN ON THIS PLAN IS SCHEMATIC IN NATURE. IF ADDITIONAL CONDUIT OR LARGER CONDUIT IS REQUIRED, PLEASE SUBMIT A REVISED SITE CONDUIT PLAN FOR CITY OF VALDOSTA STAFF REVIEW PRIOR TO INSTALLATION.
5. HIGH VOLTAGE, LOW VOLTAGE, AND INSTRUMENTATION WIRING SHALL BE CONTAINED WITHIN SEPARATE RUNS OF CONDUIT.

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GEORGIA
AXIS ENGINEERING CONSULTANTS
PEF009117
06/30/2026
CERTIFICATE OF AUTHORIZATION

GEORGIA
REGISTERED
No. PE039411
PROFESSIONAL
10/1/2025
ENGINEER
B. MATTHEW LEMMON

AEC PROJECT NUMBER
25-25058

DATE OF PLANS
8/5/2025

REVISIONS

NO.	DATE	DESCRIPTION
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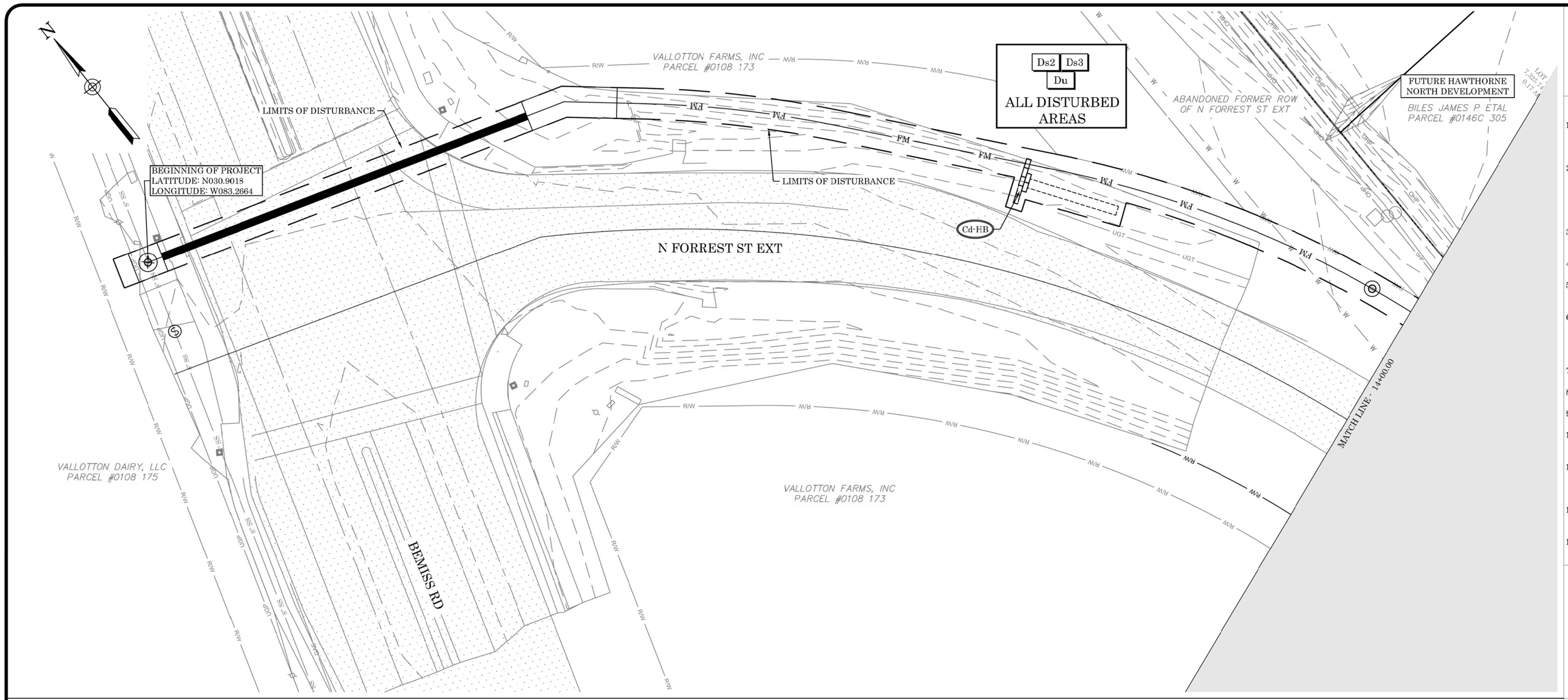
KAR LIFT STATION
CITY OF VALDOSTA

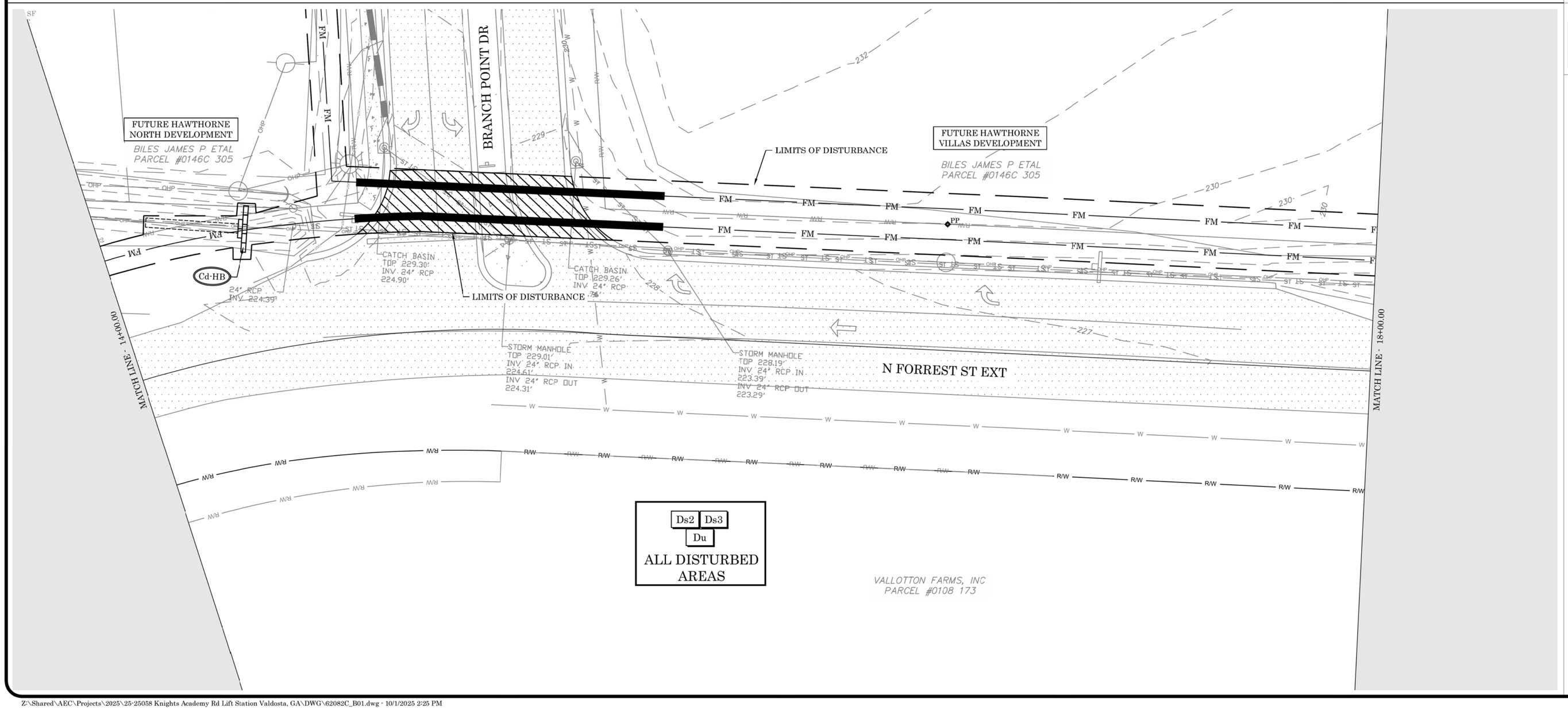
SITE PLUMBING AND ELECTRICAL PLAN

VALDOSTA, LOWNDES COUNTY, GEORGIA

10' 5' 0' 10'
GRAPHIC SCALE 1" = 10'

SHEET
C3.19 OF 40





SITE INFORMATION	
PROJECT ADDRESS	N FORREST ST EXT, VALDOSTA, GA 31605
PARCEL ZONING	PUBLIC ROW
PROJECT AREA / LENGTH	1.32 MILES

EROSION, SEDIMENTATION, & POLLUTION CONTROL NOTES:

1. THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WITHIN 7 DAYS AFTER INSTALLATION.
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3. AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
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7. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
8. THE CONTRACTOR SHALL INSTALL ALL PERIMETER CONTROL BMPS AND CONSTRUCTION EXIT PRIOR TO ANY LAND DISTURBING ACTIVITIES.
9. THE CONTRACTOR SHALL PROVIDE DUST CONTROL FOR THE PROJECT AREA AS NEEDED BASED ON PROJECT CONDITIONS.
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12. WHEN APPROPRIATE THE CONTRACTOR SHALL INSTALL PERMANENT VEGETATIVE SEEDING / SODDING ON ALL DISTURBED AREAS. COORDINATE WITH LANDSCAPE PLAN FOR FINAL GROUND COVER.
13. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY BMPS ONCE FINAL STABILIZATION HAS BEEN MET.

VEGETATIVE PRACTICES

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Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.

DITCH CHECK DAM SEDIMENT STORAGE CALCULATION:

1. DISTURBED AREA = 2.1 AC
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   REQUIRED SEDIMENT STORAGE = 67 CY/AC * 2.1 AC
   REQUIRED SEDIMENT STORAGE = 140.70 CY = 3,799 CF
3. ASSUME SEDIMENT DEPTH OF 2' BEHIND DITCH CHECKDAMS AND 30' ALONG THE CENTERLINE OF THE DITCH
4. DETERMINE IF ADEQUATE SEDIMENT STORAGE AREA ALONG UNDERCUT DITCHES IS POSSIBLE.
5. NUMBER OF DITCH CHECKDAMS = 33
   LENGTH OF UNDERCUT DITCH PER CHECKDAM = 30'
   DEPTH OF SEDIMENT = 2'
   WIDTH OF SEDIMENT STORAGE AREA = 3'
   PROVIDED STORAGE PER CHECKDAM = 2'X3'X30' = 180 CF = 6.67 CY
   AVAILABLE SEDIMENT STORAGE = 180 CF x 33 CHECKS = 5,940 CF

   180 CF = 6.67 CY OF SEDIMENT STORAGE IS AVAILABLE IN **EACH** DITCH CHECKDAM
   5,940 CF = 220 CY OF **TOTAL** SEDIMENT STORAGE IS AVAILABLE IN THE DITCH CHECKDAMS.

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GEORGIA
AXIS ENGINEERING CONSULTANTS
PEF009117
06/30/2026
CERTIFICATE OF AUTHORIZATION

GEORGIA
REGISTERED
No. PE039441
PROFESSIONAL
10/1/2025
ENGINEER
B. MATTHEW INMAN

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

B. Matthew Inman
LEVEL II CERTIFIED DESIGN PROFESSIONAL

CERTIFICATION NUMBER: 0000000885
ISSUED 09/01/2025 EXPIRES 09/01/2028

AEC PROJECT NUMBER
25-25058

DATE OF PLANS
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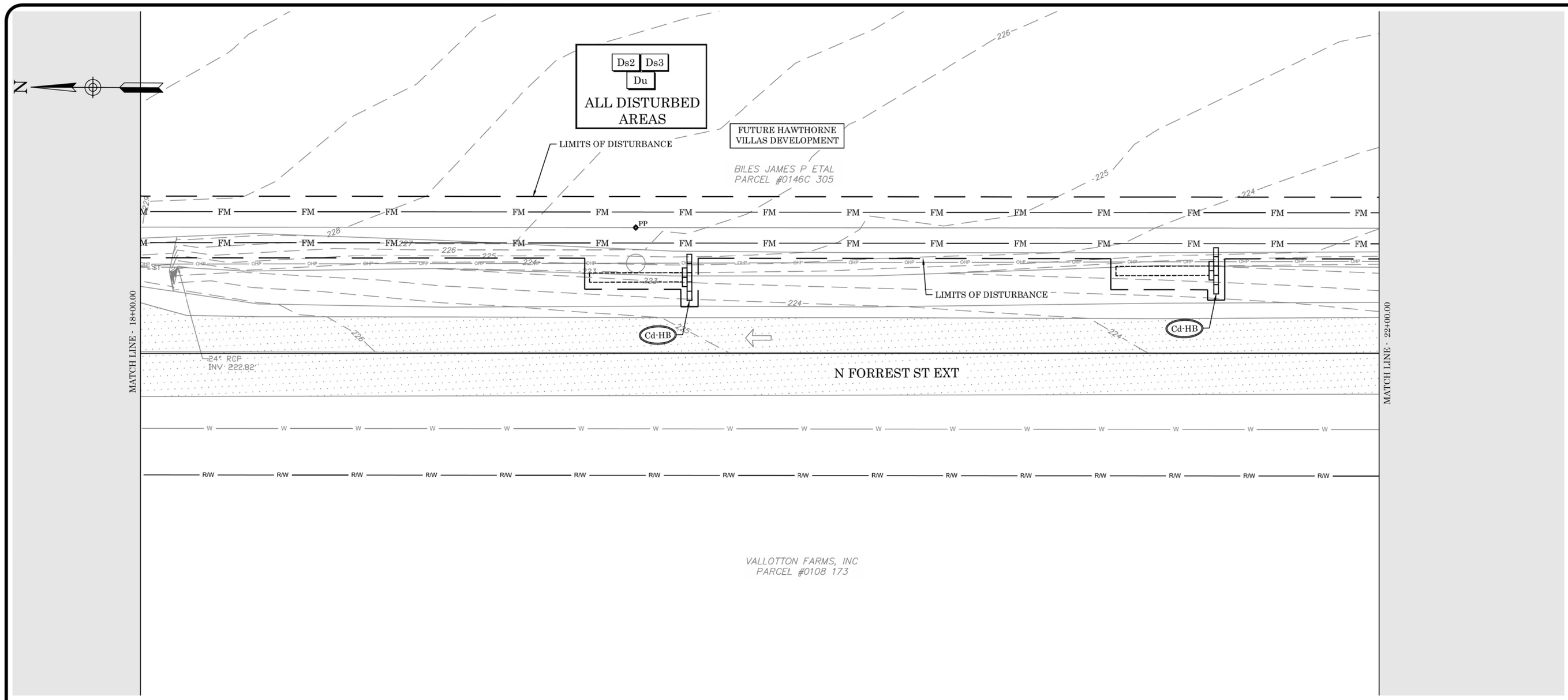
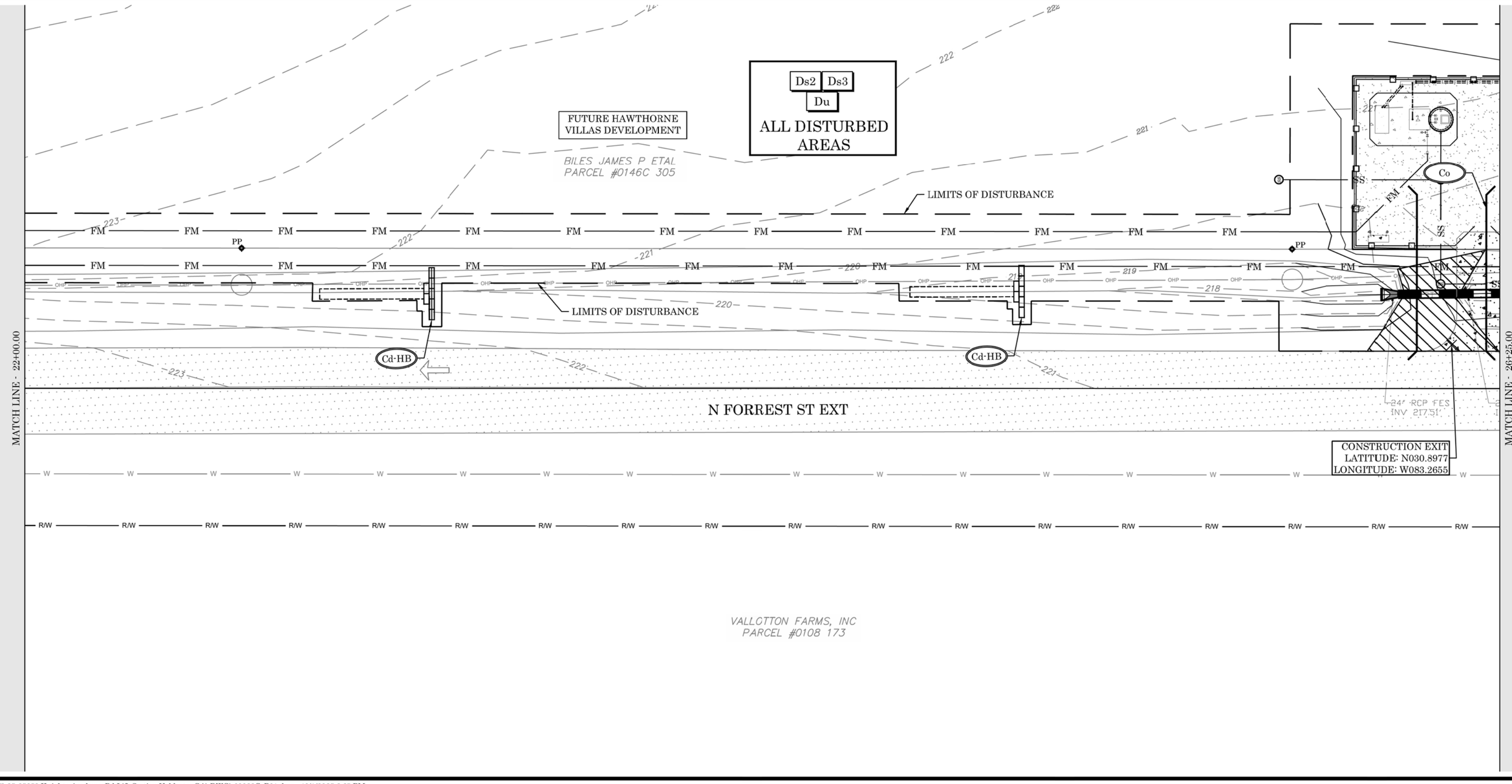
KAR LIFT STATION
CITY OF VALDOSTA
EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN

VALDOSTA, LOWNDES COUNTY, GEORGIA

20' 10' 0' 20'
GRAPHIC SCALE 1" = 20'

SHEET
C4.0 OF 40





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GEORGIA — AXIS ENGINEERING CONSULTANTS PEF009117 06/30/2026 — CERTIFICATE OF AUTHORIZATION

GEORGIA — REGISTERED No. PE033941 PROFESSIONAL 10/1/2025 ENGINEER — B. MATTHEW INMAN

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

B. Matthew Inman
Level II Certified Design Professional
Certification Number: 0000000885
Issued 06/01/2025 Expires 06/01/2028

AEC PROJECT NUMBER
25-25058

DATE OF PLANS
8/5/2025

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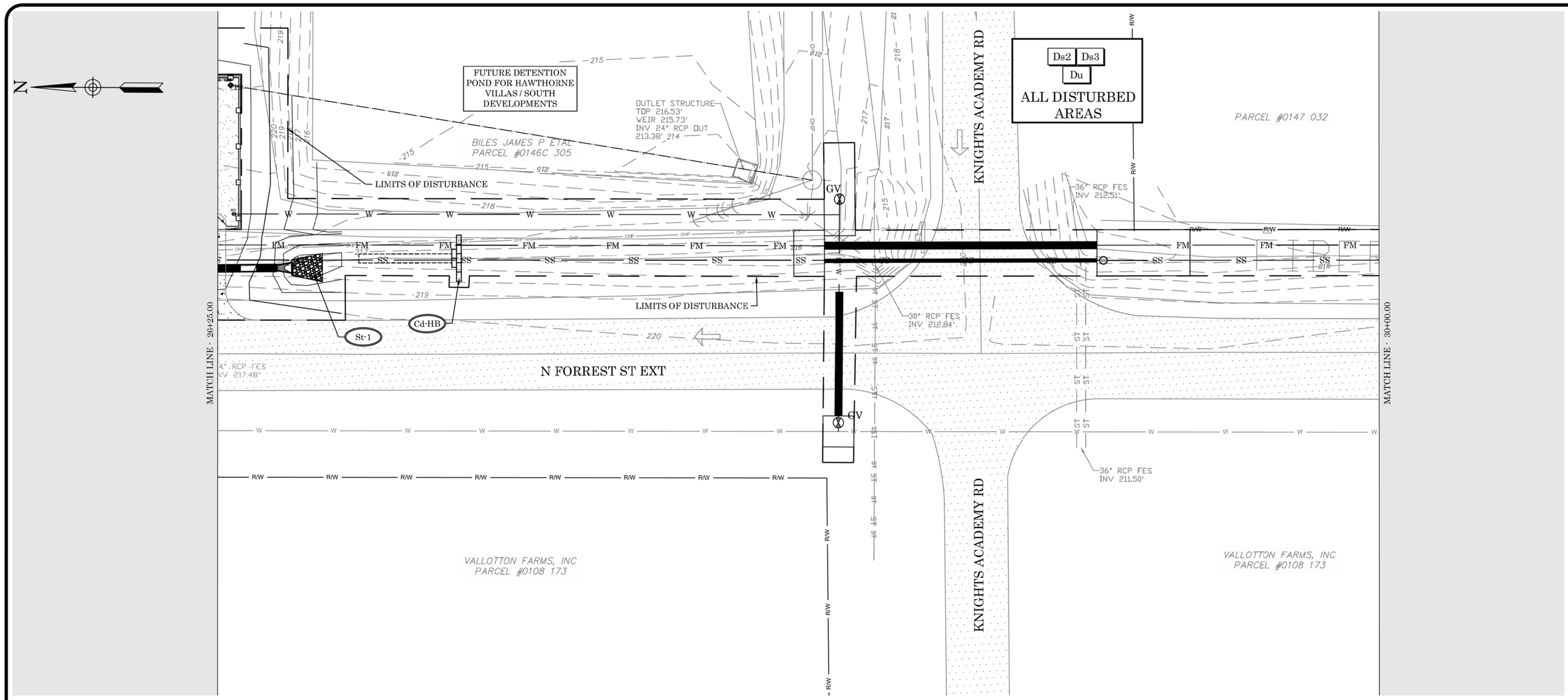
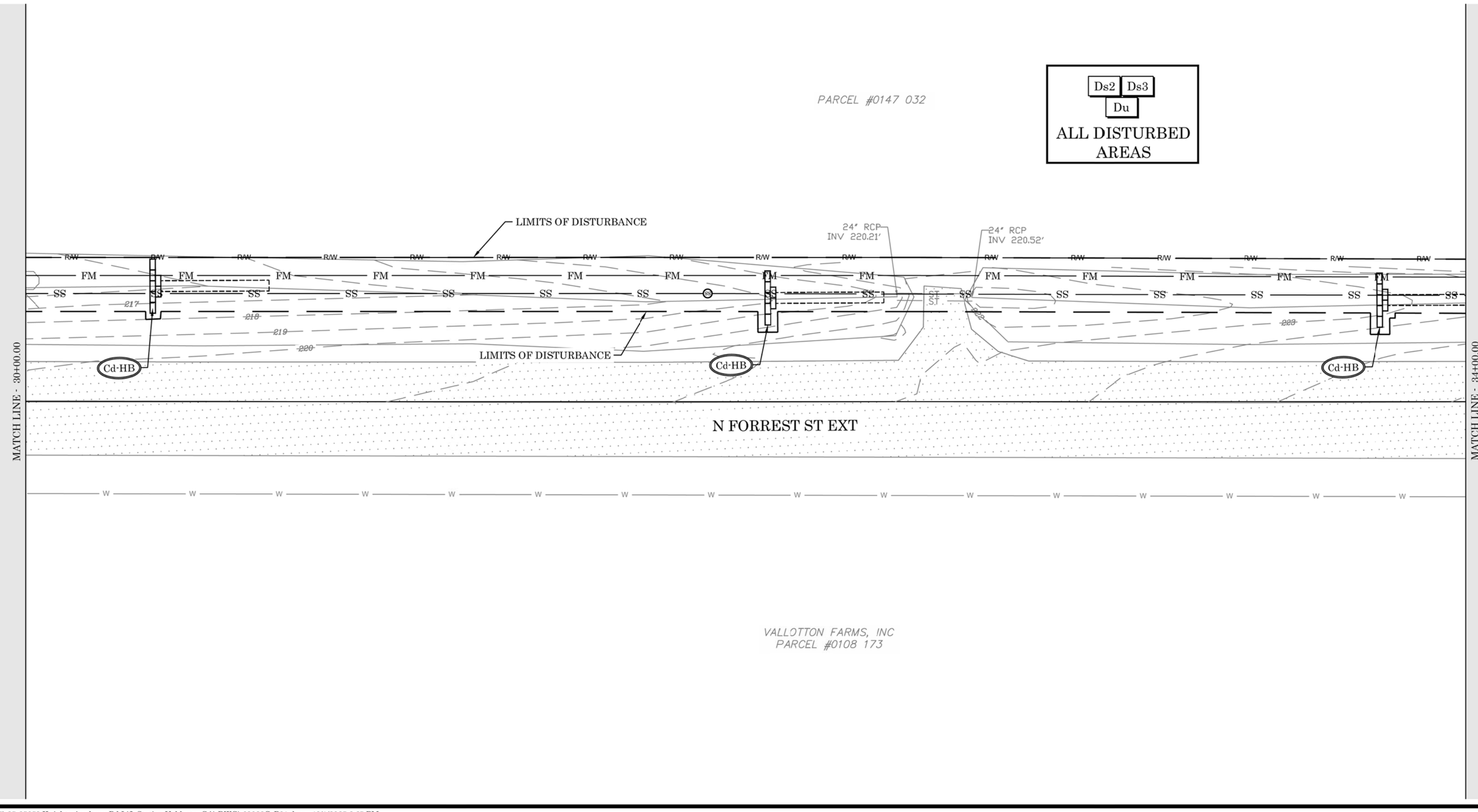
KAR LIFT STATION
CITY OF VALDOSTA
EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN

VALDOSTA, LOWNDES COUNTY, GEORGIA

20' 10' 0' 20'
GRAPHIC SCALE 1" = 20'

SHEET
C4.1 OF 40





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PARCEL ZONING	PUBLIC ROW
PROJECT AREA / LENGTH	1.32 MILES

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STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
St	STORMDRAIN OUTLET PROTECTION		St	A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.

DITCH CHECK DAM SEDIMENT STORAGE CALCULATION:

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2. REQUIRED SEDIMENT STORAGE = 67 CY/AC * DISTURBED AREA
   REQUIRED SEDIMENT STORAGE = 67 CY/AC * 2.1 AC
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   WIDTH OF SEDIMENT STORAGE AREA = 3'
   PROVIDED STORAGE PER CHECKDAM = 2'X3'X30' = 180 CF = 6.67 CY.
   AVAILABLE SEDIMENT STORAGE = 180 CF x 33 Cd-HB = 5,940 CF

   180 CF = 6.67 CY OF SEDIMENT STORAGE IS AVAILABLE IN **EACH** DITCH CHECKDAM
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GEORGIA — AXIS ENGINEERING CONSULTANTS PEF009117 06/30/2026 — CERTIFICATE OF AUTHORIZATION

GEORGIA REGISTERED No. PE039411 PROFESSIONAL 10/1/2025 ENGINEER B. MATTHEW INMAN

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

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EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN

KAR LIFT STATION

CITY OF VALDOSTA

VALDOSTA, LOWNDES COUNTY, GEORGIA

20' 10' 0' 20'
GRAPHIC SCALE 1" = 20'

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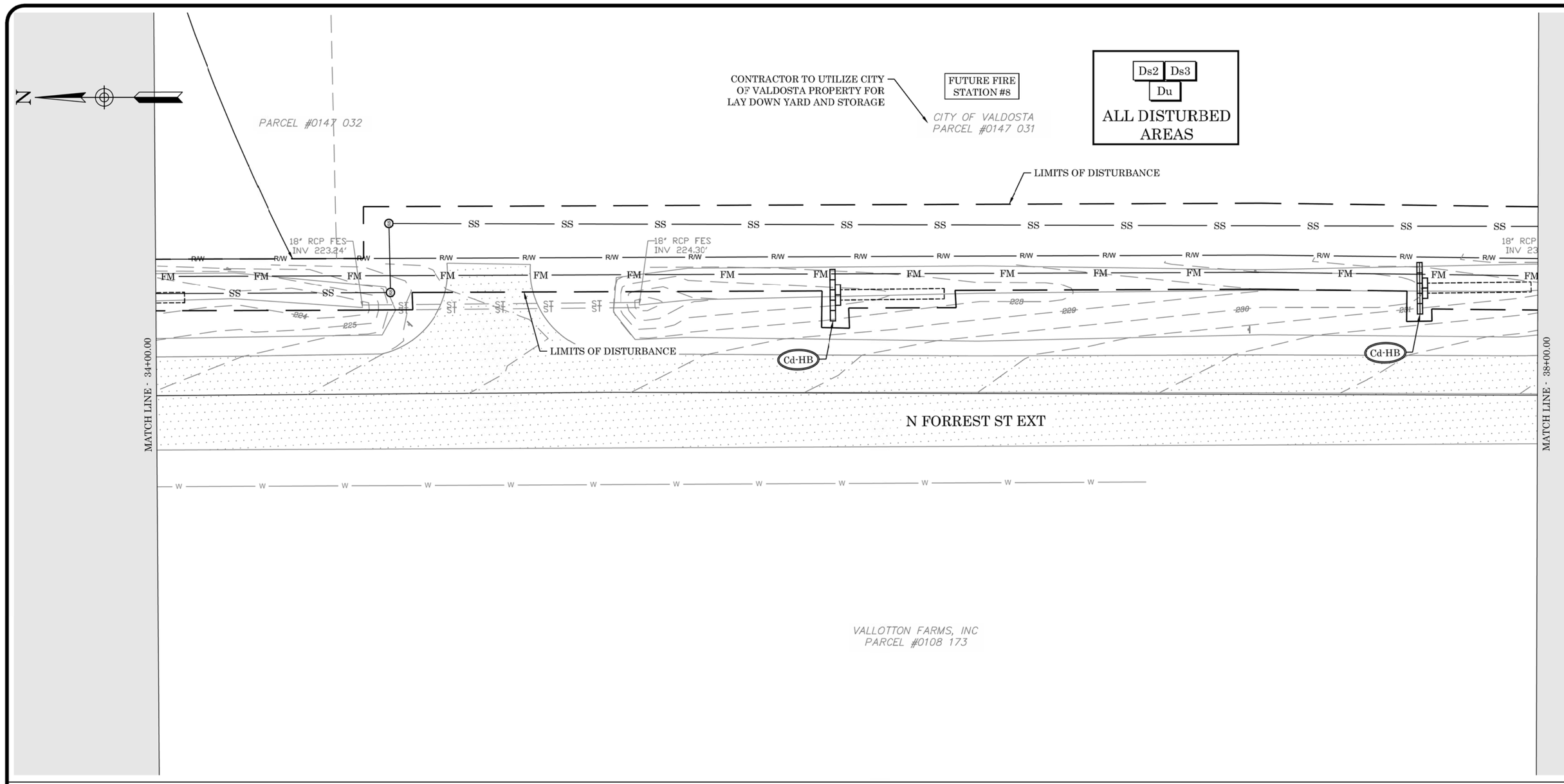
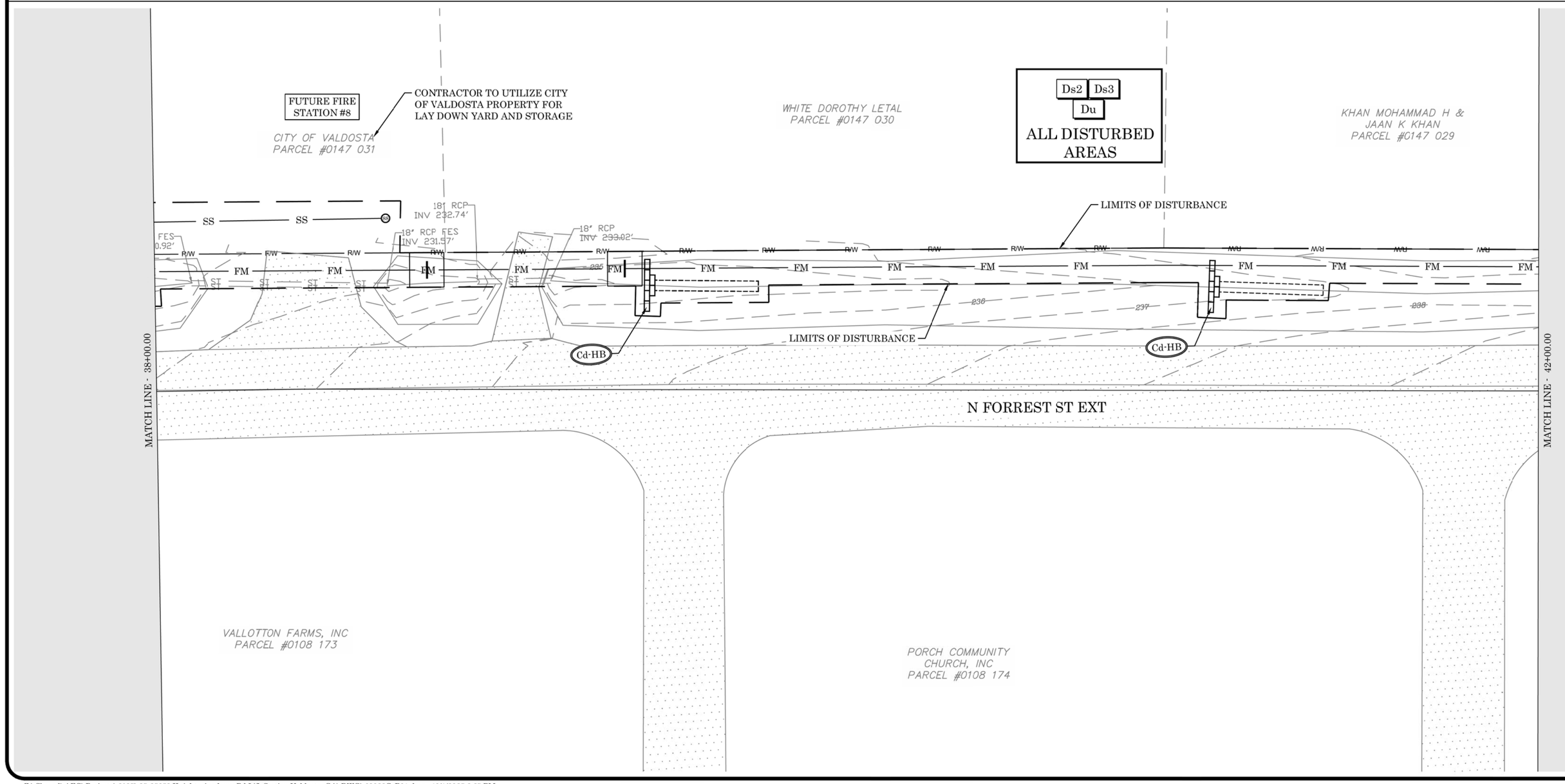
C4.2 OF 40





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PARCEL ZONING	PUBLIC ROW
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10. THE CONTRACTOR SHALL PERFORM DAILY INSPECTIONS / MAINTENANCE OF ALL EROSION CONTROL BMPS. SEDIMENT LADEN RUNOFF SHALL BE CONTAINED AND TREATED ON SITE.
11. CONTRACTOR SHALL INSTALL CONCRETE WASH AREA. CONCRETE WASH AREA SHALL BE USED FOR WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND REAR OF THE VEHICLES ONLY. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.
12. WHEN APPROPRIATE THE CONTRACTOR SHALL INSTALL PERMANENT VEGETATIVE SEEDING / SODDING ON ALL DISTURBED AREAS. COORDINATE WITH LANDSCAPE PLAN FOR FINAL GROUND COVER.
13. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY BMPS ONCE FINAL STABILIZATION HAS BEEN MET.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)		Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.

DITCH CHECK DAM SEDIMENT STORAGE CALCULATION:

1. DISTURBED AREA = 2.1 AC
2. REQUIRED SEDIMENT STORAGE = 67 CY/AC * DISTURBED AREA
   REQUIRED SEDIMENT STORAGE = 67 CY/AC * 2.1 AC
   REQUIRED SEDIMENT STORAGE = 140.70 CY = 3,792 CF
3. ASSUME SEDIMENT DEPTH OF 2' BEHIND DITCH CHECKDAMS AND 30' ALONG THE CENTERLINE OF THE DITCH
4. DETERMINE IF ADEQUATE SEDIMENT STORAGE AREA ALONG UNDERCUT DITCHES IS POSSIBLE.
5. NUMBER OF DITCH CHECKDAMS = 33
   LENGTH OF UNDERCUT DITCH PER CHECKDAM = 30'
   DEPTH OF SEDIMENT = 2'
   WIDTH OF SEDIMENT STORAGE AREA = 3'
   PROVIDED STORAGE PER CHECKDAM = 2'X3'X30' = 180 CF = 6.67 CY
   AVAILABLE SEDIMENT STORAGE = 180 CF x 33 CHECKS = 5,940 CF

   180 CF = 6.67 CY OF SEDIMENT STORAGE IS AVAILABLE IN **EACH** DITCH CHECKDAM
   5,940 CF = 220 CY OF **TOTAL** SEDIMENT STORAGE IS AVAILABLE IN THE DITCH CHECKDAMS.

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GEORGIA — AXIS ENGINEERING CONSULTANTS PEF009117 06/30/2026 — CERTIFICATE OF AUTHORIZATION

GEORGIA — REGISTERED No. PE039411 PROFESSIONAL 10/1/2025 ENGINEER — B. MATTHEW INMAN

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

B. Matthew Inman
Level II Certified Design Professional
Certification Number: 0000000885
Issued 09/01/2025 Expires 09/01/2028

AEC PROJECT NUMBER
25-25058

DATE OF PLANS
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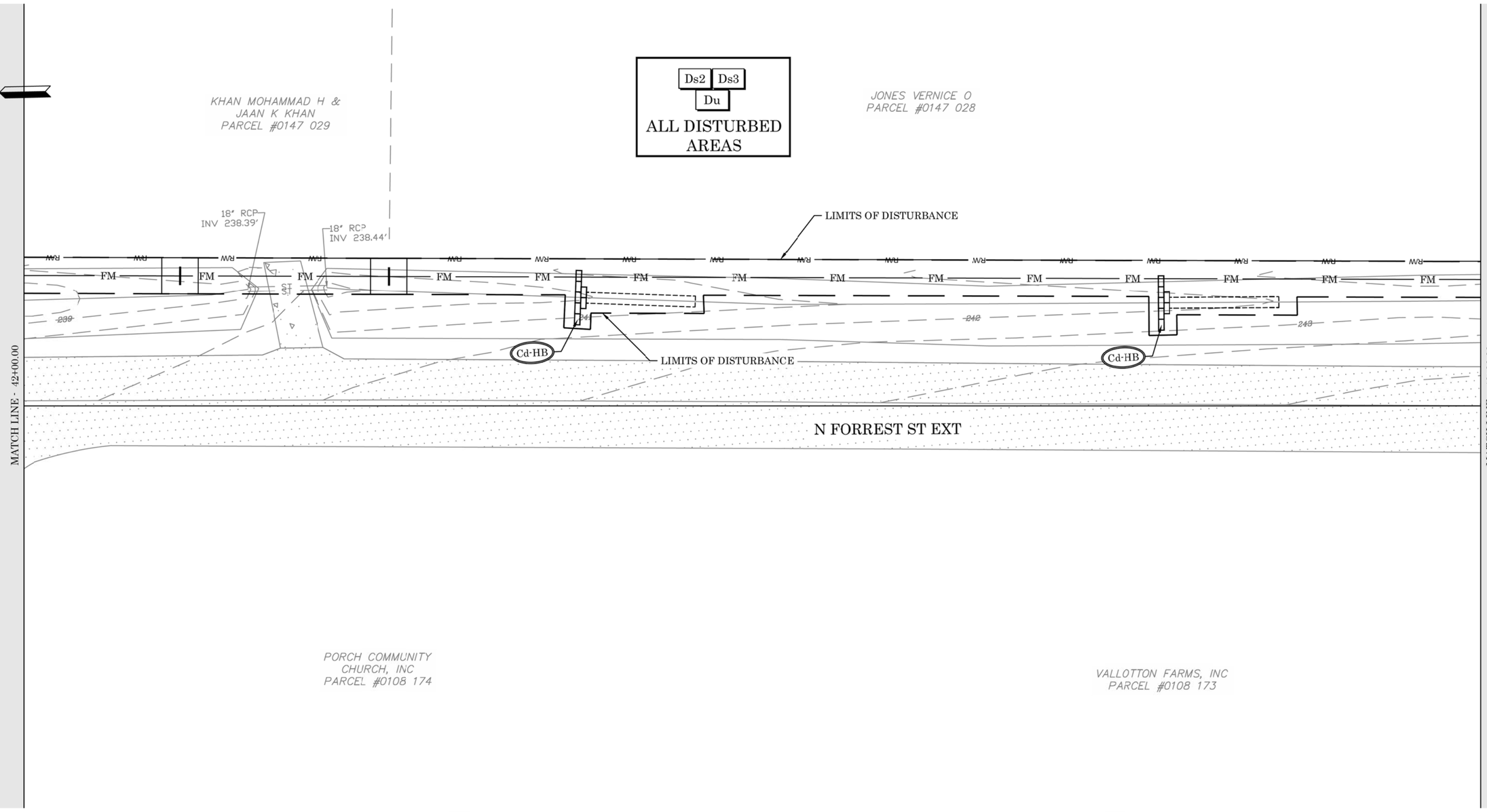
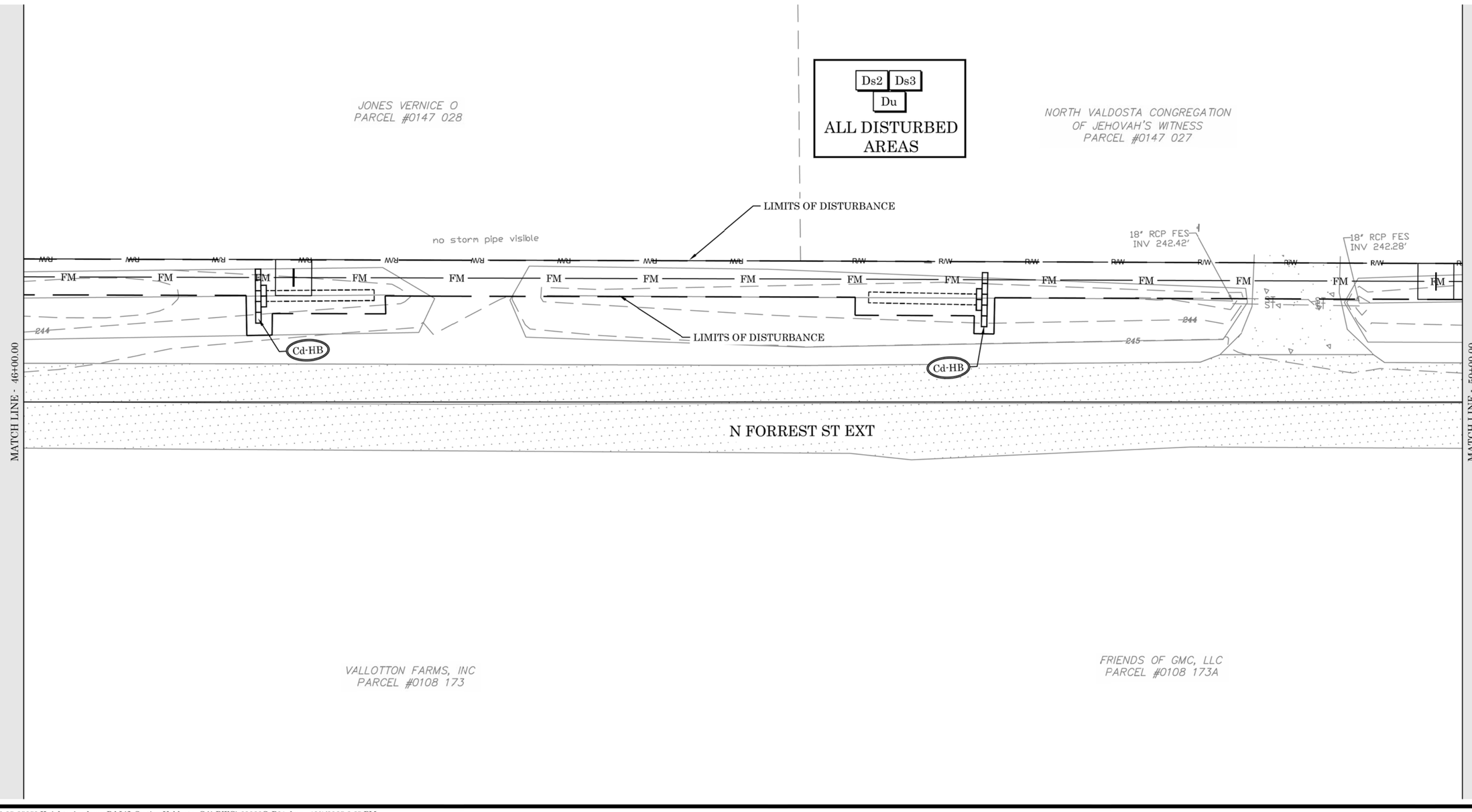
KAR LIFT STATION
CITY OF VALDOSTA
EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN

VALDOSTA, LOWNDES COUNTY, GEORGIA

20' 10' 0' 20'
GRAPHIC SCALE 1" = 20'

SHEET
C4.3 OF 40





SITE INFORMATION	
PROJECT ADDRESS	N FORREST ST EXT, VALDOSTA, GA 31605
PARCEL ZONING	PUBLIC ROW
PROJECT AREA / LENGTH	1.32 MILES

EROSION, SEDIMENTATION, & POLLUTION CONTROL NOTES:

1. THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WITHIN 7 DAYS AFTER INSTALLATION.
2. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
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6. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
7. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
8. THE CONTRACTOR SHALL INSTALL ALL PERIMETER CONTROL BMPS AND CONSTRUCTION EXIT PRIOR TO ANY LAND DISTURBING ACTIVITIES.
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GEORGIA — REGISTERED No. PE039411 PROFESSIONAL 10/1/2025 ENGINEER — B. MATTHEW INMAN

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

B. Matthew Inman
LEVEL II CERTIFIED DESIGN PROFESSIONAL

CERTIFICATION NUMBER: 0000000885
ISSUED: 06/01/2025 EXPIRES: 06/01/2028

AEC PROJECT NUMBER
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DATE OF PLANS
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GRAPHIC SCALE 1" = 20'

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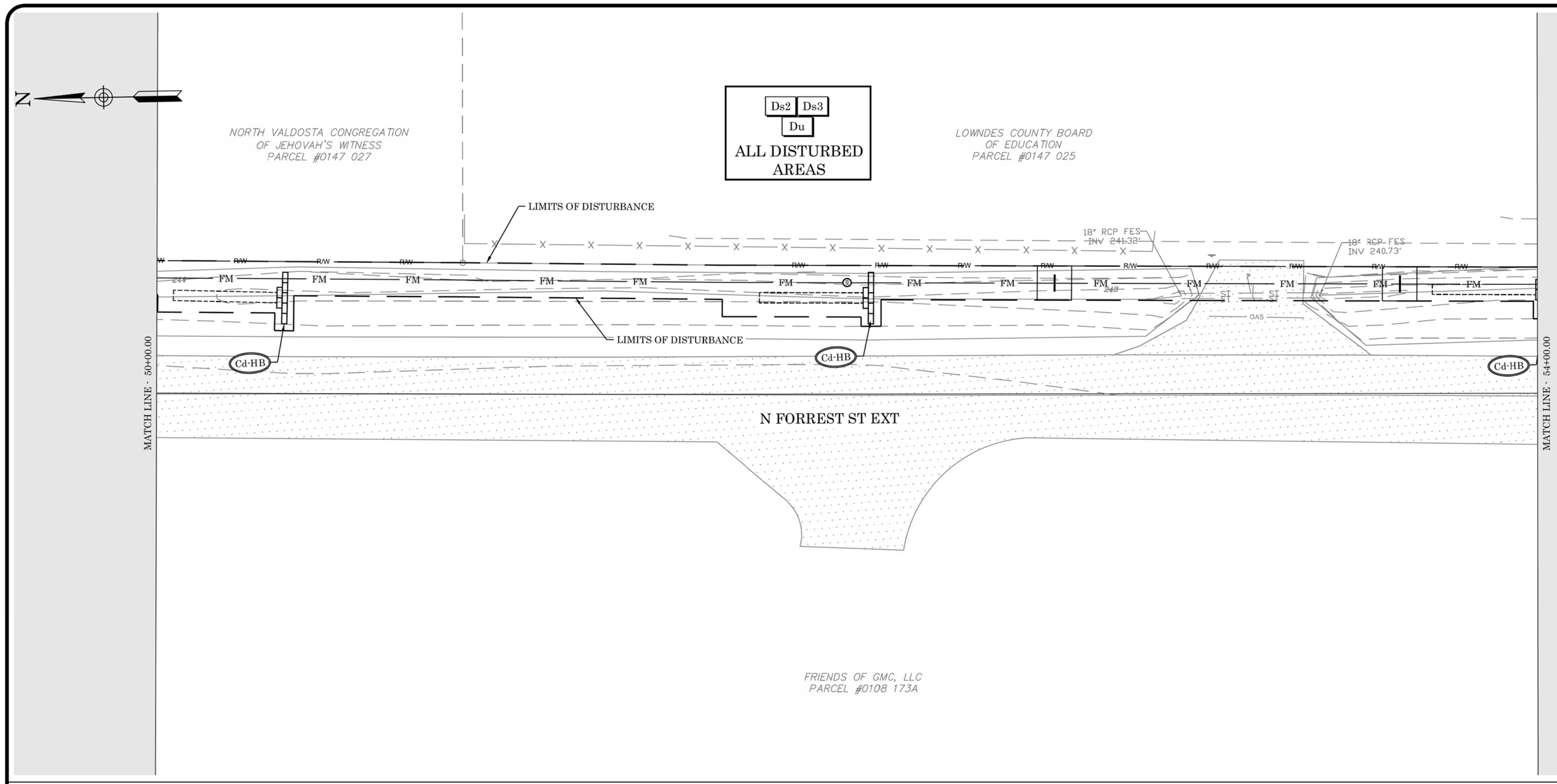

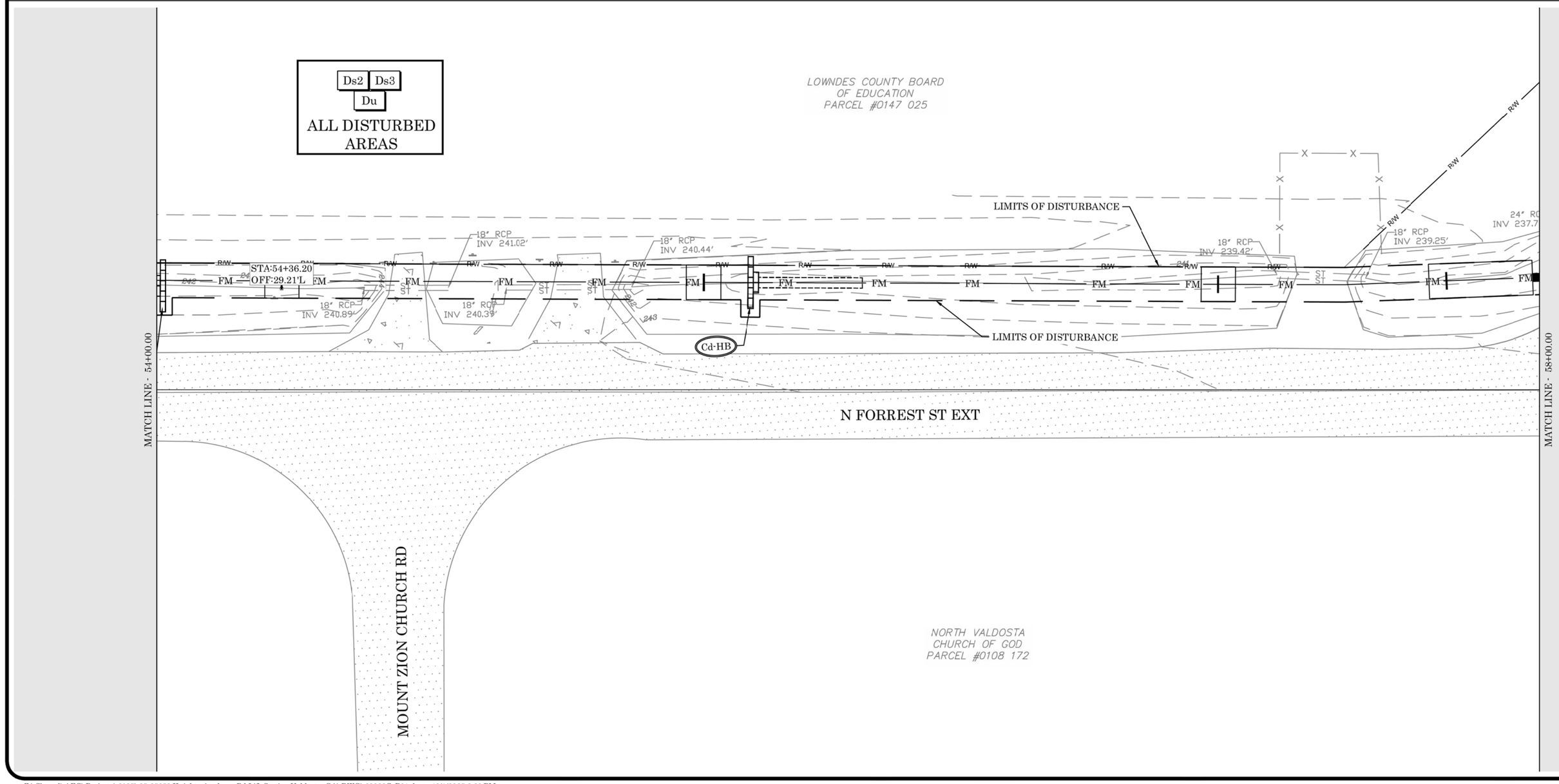

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GEORGIA CERTIFICATE OF AUTHORIZATION
AXIS ENGINEERING CONSULTANTS
PEF009117
06/30/2026

GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. PE039411
10/1/2025
B. MATTHEW INMAN

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION
B. Matthew Inman
Level II Certified Design Professional
Certification Number: 0000000885
Issued 06/01/2025 Expires 06/01/2028

AEC PROJECT NUMBER
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KAR LIFT STATION
CITY OF VALDOSTA
EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN

VALDOSTA, LOWNDES COUNTY, GEORGIA

20' 10' 0' 20'
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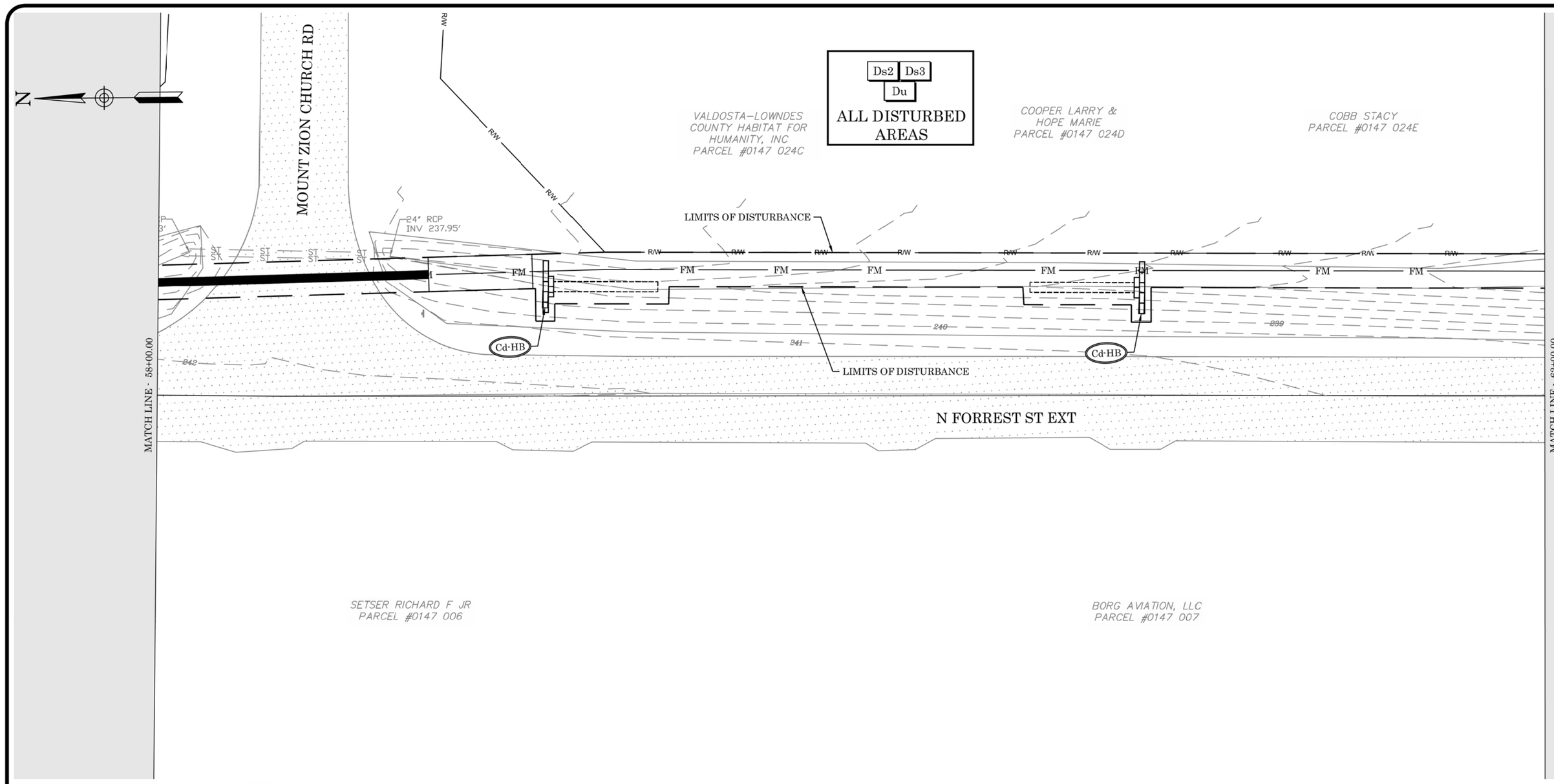

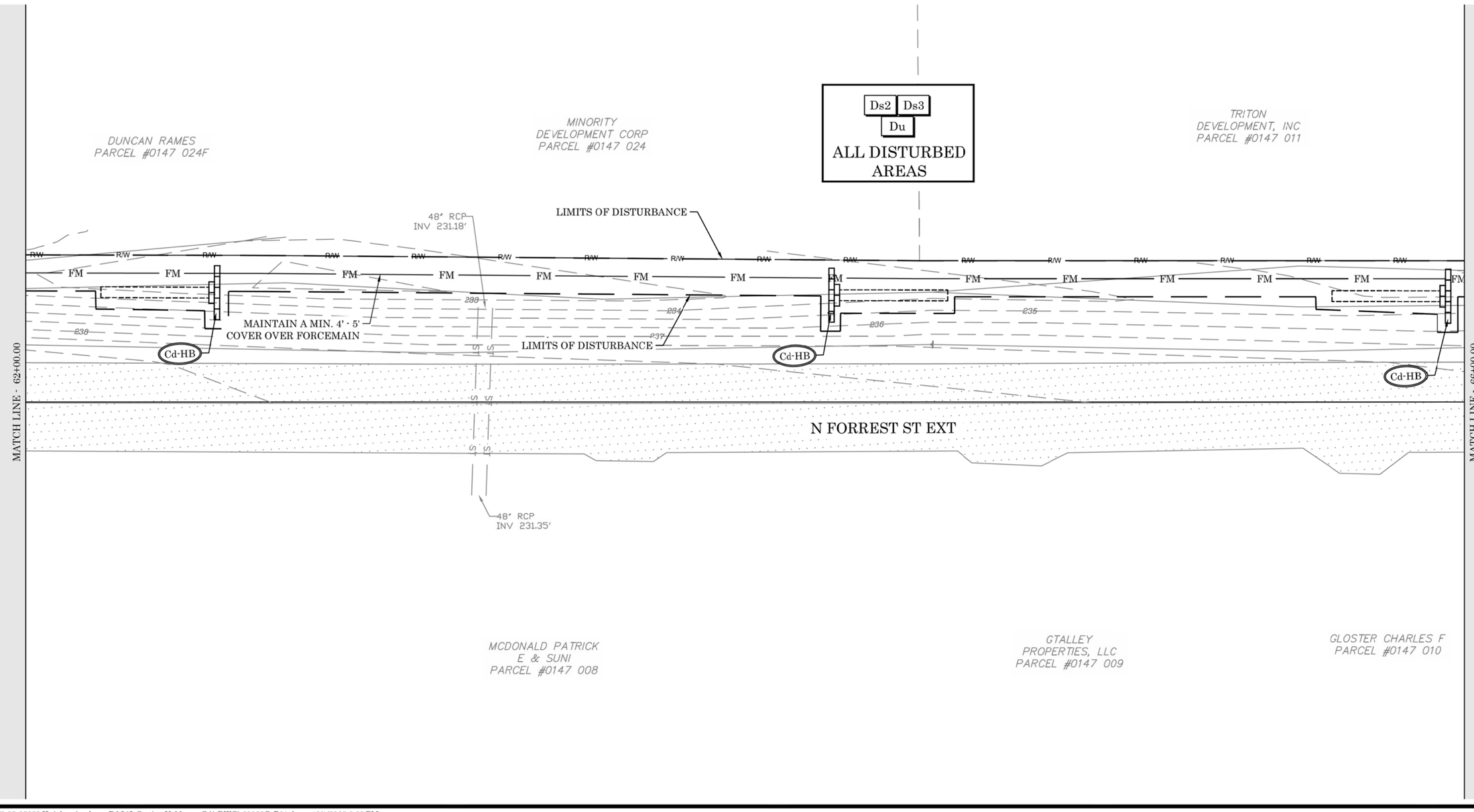

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EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN

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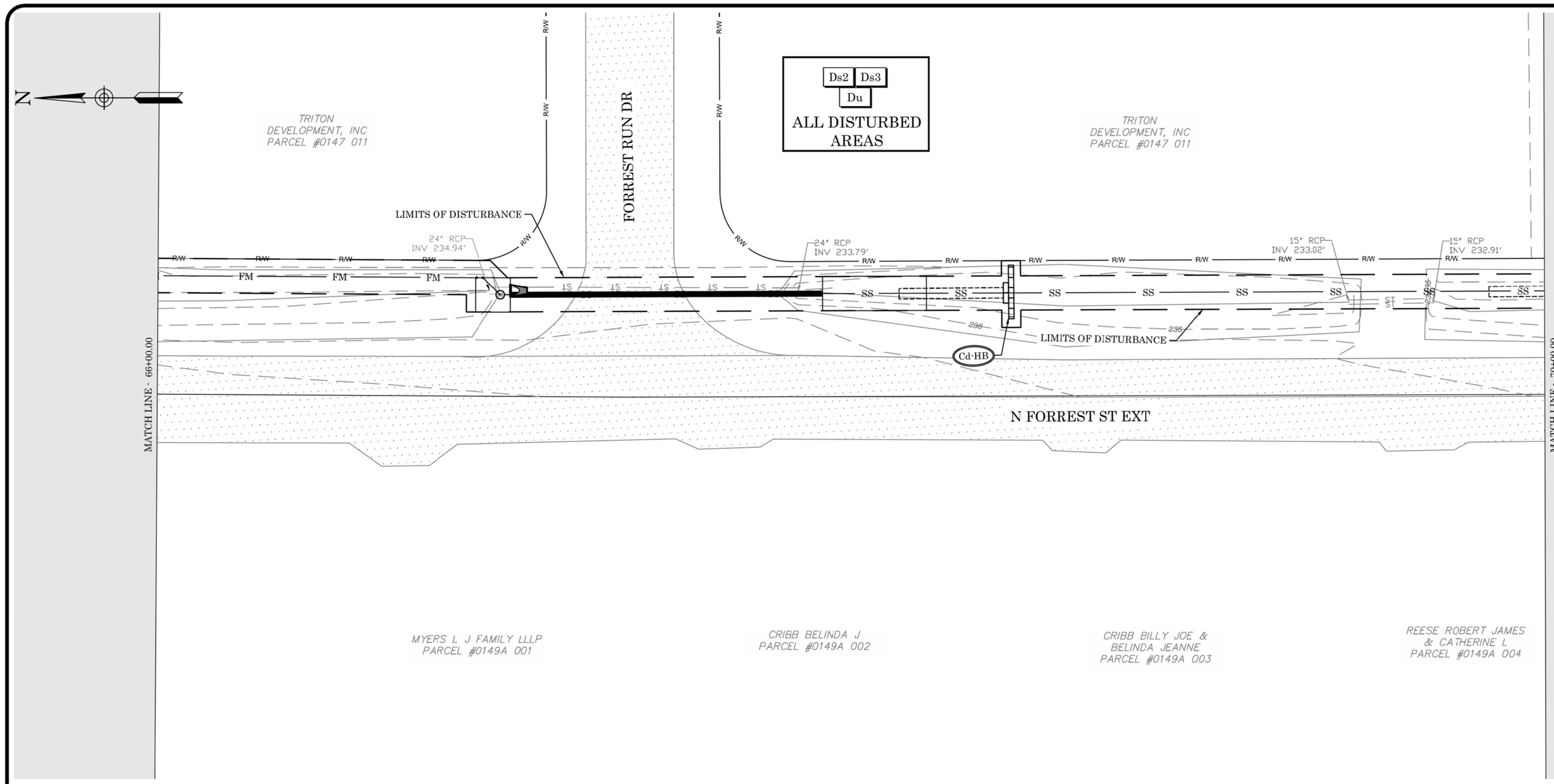

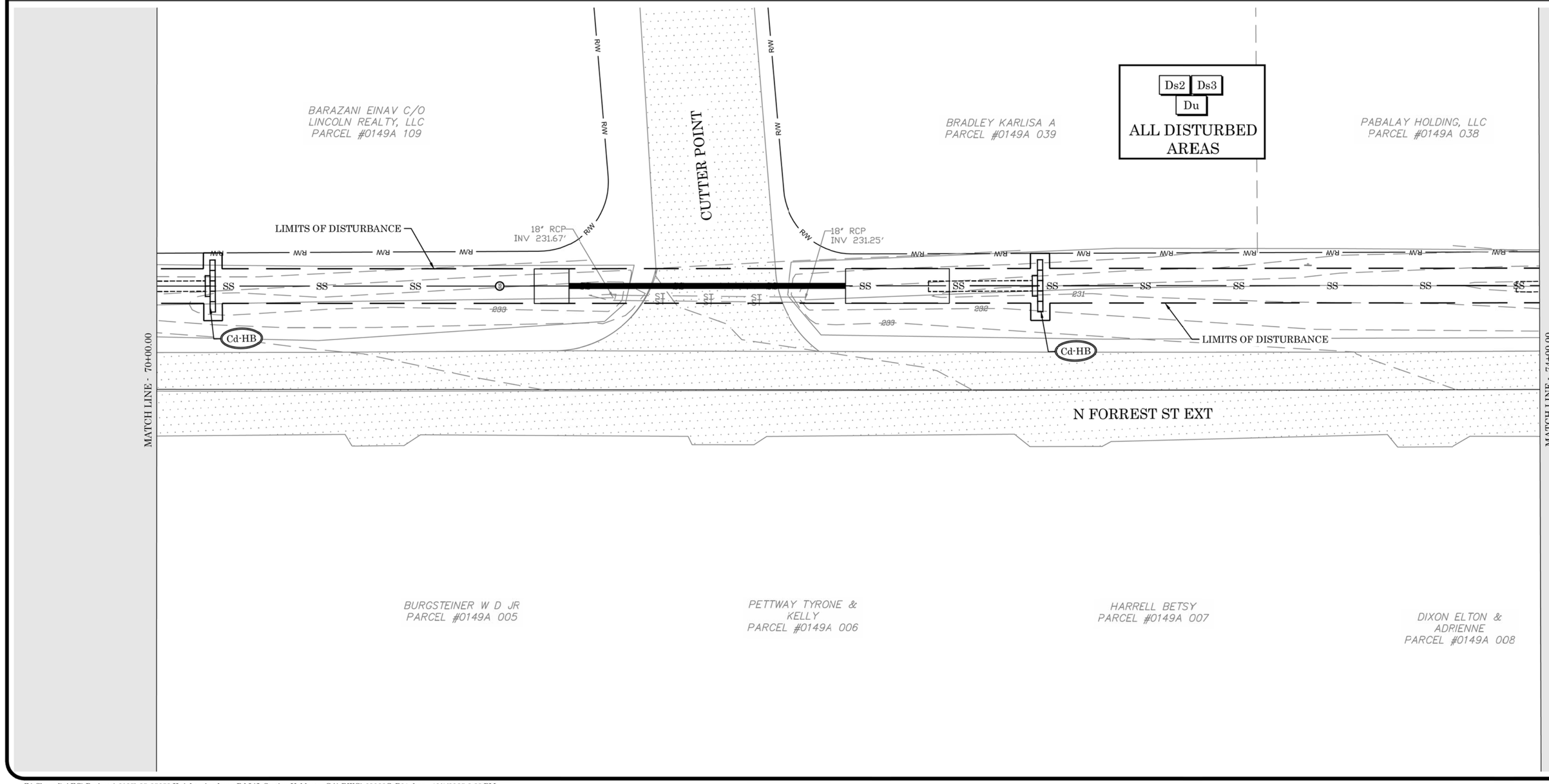

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6. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
7. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
8. THE CONTRACTOR SHALL INSTALL ALL PERIMETER CONTROL BMPS AND CONSTRUCTION EXIT PRIOR TO ANY LAND DISTURBING ACTIVITIES.
9. THE CONTRACTOR SHALL PROVIDE DUST CONTROL FOR THE PROJECT AREA AS NEEDED BASED ON PROJECT CONDITIONS.
10. THE CONTRACTOR SHALL PERFORM DAILY INSPECTIONS / MAINTENANCE OF ALL EROSION CONTROL BMPS. SEDIMENT LADEN RUNOFF SHALL BE CONTAINED AND TREATED ON SITE.
11. CONTRACTOR SHALL INSTALL CONCRETE WASH AREA. CONCRETE WASH AREA SHALL BE USED FOR WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND REAR OF THE VEHICLES ONLY. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.
12. WHEN APPROPRIATE THE CONTRACTOR SHALL INSTALL PERMANENT VEGETATIVE SEEDING / SODDING ON ALL DISTURBED AREAS. COORDINATE WITH LANDSCAPE PLAN FOR FINAL GROUND COVER.
13. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY BMPS ONCE FINAL STABILIZATION HAS BEEN MET.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)		Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.

DITCH CHECK DAM SEDIMENT STORAGE CALCULATION:

1. DISTURBED AREA = 2.1 AC
2. REQUIRED SEDIMENT STORAGE = 67 CY/AC * DISTURBED AREA
   REQUIRED SEDIMENT STORAGE = 67 CY/AC * 2.1 AC
   REQUIRED SEDIMENT STORAGE = 140.70 CY = 3,799 CF
3. ASSUME SEDIMENT DEPTH OF 2' BEHIND DITCH CHECKDAMS AND 30' ALONG THE CENTERLINE OF THE DITCH
4. DETERMINE IF ADEQUATE SEDIMENT STORAGE AREA ALONG UNDERCUT DITCHES IS POSSIBLE.
5. NUMBER OF DITCH CHECKDAMS = 33
   LENGTH OF UNDERCUT DITCH PER CHECKDAM = 30'
   DEPTH OF SEDIMENT = 2'
   WIDTH OF SEDIMENT STORAGE AREA = 3'
   PROVIDED STORAGE PER CHECKDAM = 2'X3'X30' = 180 CF = 6.67 CY
   AVAILABLE SEDIMENT STORAGE = 180 CF x 33 CHECKS = 5,940 CF

   180 CF = 6.67 CY OF SEDIMENT STORAGE IS AVAILABLE IN **EACH** DITCH CHECKDAM
   5,940 CF = 220 CY OF **TOTAL** SEDIMENT STORAGE IS AVAILABLE IN THE DITCH CHECKDAMS.

GEORGIA811 www.Georgia811.com

GEORGIA — AXIS ENGINEERING CONSULTANTS PEF009117 06/30/2026 — CERTIFICATE OF AUTHORIZATION

GEORGIA — REGISTERED No. PE039411 PROFESSIONAL 10/1/2025 ENGINEER — B. MATTHEW INMAN

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

B. Matthew Inman
LEVEL II CERTIFIED DESIGN PROFESSIONAL
CERTIFICATION NUMBER: 0000000885
ISSUED 06/01/2025 EXPIRES 06/01/2028

AEC PROJECT NUMBER
25-25058

DATE OF PLANS
8/5/2025

REVISIONS

NO.	DATE	DESCRIPTION
1	10/1/2025	REV. PER CITY COMMENTS
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
9	-	-
10	-	-

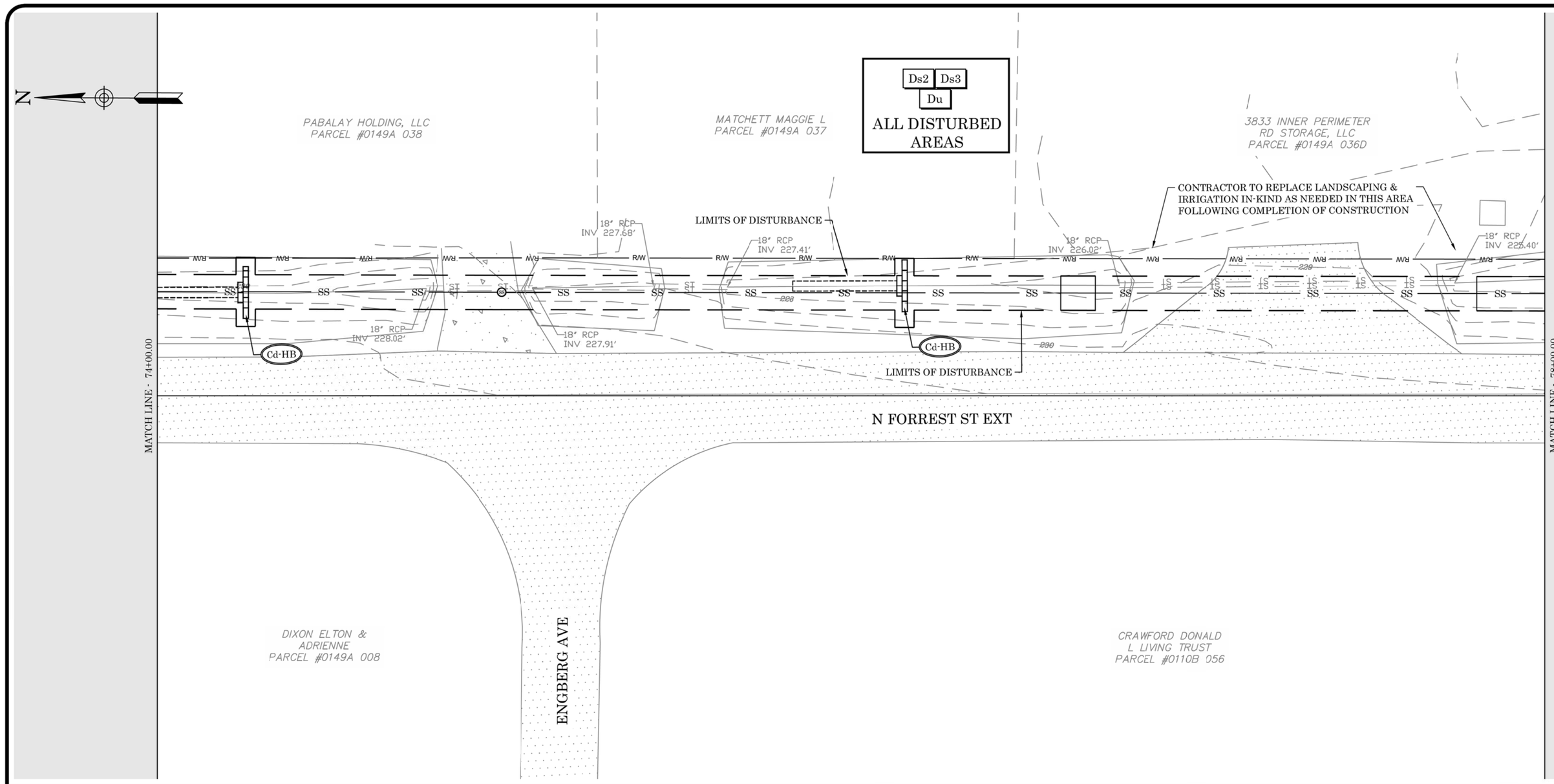
KAR LIFT STATION
CITY OF VALDOSTA
EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN

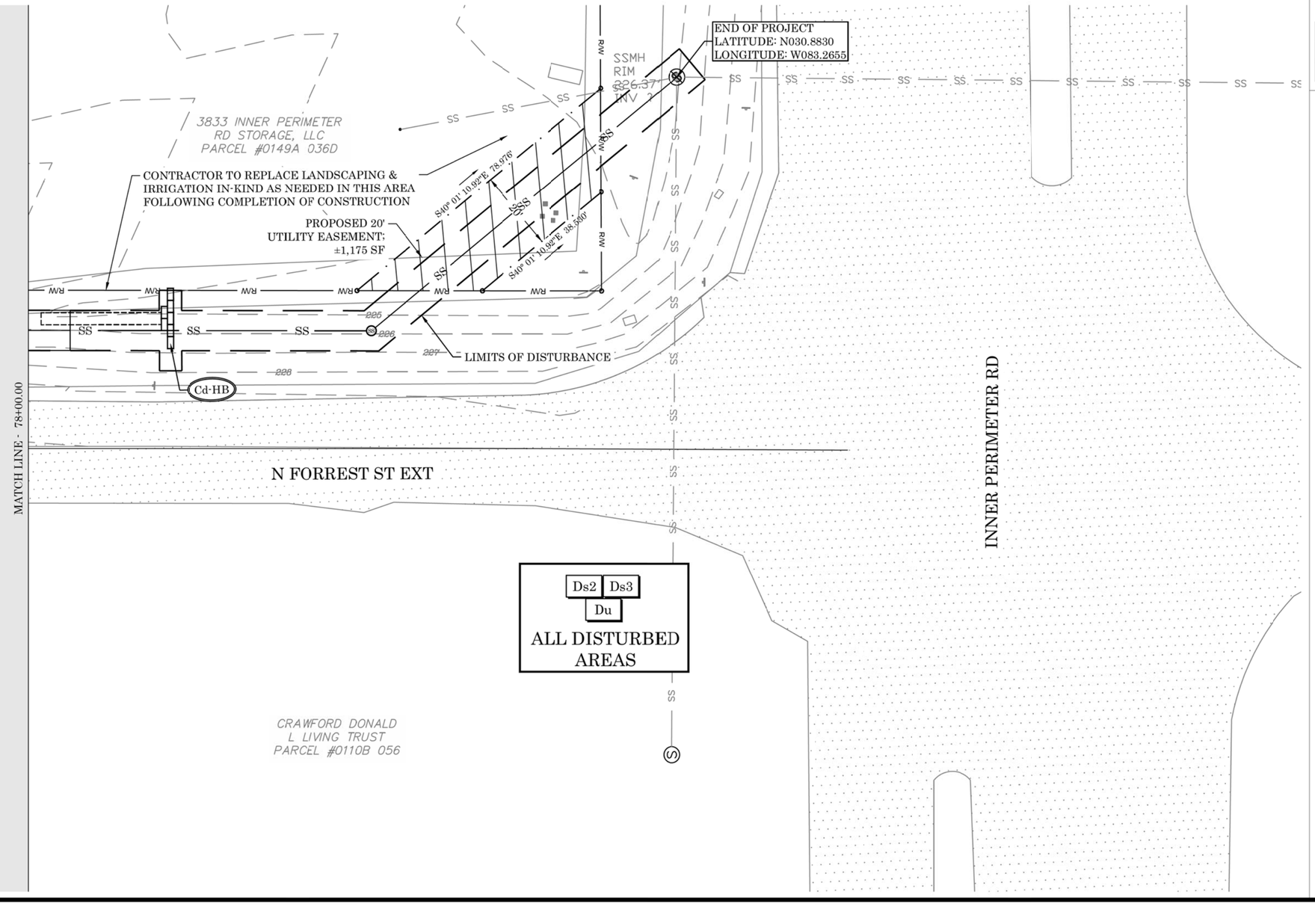
VALDOSTA, LOWNDES COUNTY, GEORGIA

20' 10' 0' 20'
GRAPHIC SCALE 1" = 20'

SHEET
C4.7 OF 40

Z:\Shared\AEC\Projects\2025\25-25058 Knights Academy Rd Lift Station Valdosta, GA\DWG\62082C_B01.dwg - 10/1/2025 2:26 PM





SITE INFORMATION	
PROJECT ADDRESS	N FORREST ST EXT, VALDOSTA, GA 31605
PARCEL ZONING	PUBLIC ROW
PROJECT AREA / LENGTH	1.32 MILES

EROSION, SEDIMENTATION, & POLLUTION CONTROL NOTES:

1. THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WITHIN 7 DAYS AFTER INSTALLATION.
2. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
3. AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
4. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
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   REQUIRED SEDIMENT STORAGE = 67 CY/AC * 2.1 AC
   REQUIRED SEDIMENT STORAGE = 140.70 CY = 3,792 CF
3. ASSUME SEDIMENT DEPTH OF 2' BEHIND DITCH CHECKDAMS AND 30' ALONG THE CENTERLINE OF THE DITCH
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   AVAILABLE SEDIMENT STORAGE = 180 CF x 33 CHKHB = 5,940 CF

   180 CF = 6.67 CY OF SEDIMENT STORAGE IS AVAILABLE IN **EACH** DITCH CHECKDAM
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REGISTERED
No. PE039411
PROFESSIONAL
10/1/2025
ENGINEER
B. MATTHEW INMAN

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

B. Matthew Inman
Level II Certified Design Professional

Certification Number: 0000000885
Issued 06/01/2025 Expires 06/01/2028

AEC PROJECT NUMBER
25-25058

DATE OF PLANS
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EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN

KAR LIFT STATION

CITY OF VALDOSTA

VALDOSTA, LOWNDES COUNTY, GEORGIA

20' 10' 0' 20'
GRAPHIC SCALE 1" = 20'

SHEET
C4.8 OF 40

(1)

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
INFRASTRUCTURE CONSTRUCTION PROJECTS GAR100002

SWCD: ALAPAHA

Project Name: KAR LIFT STATION — Address: N FORREST ST EXT, VALDOSTA, GA 31605

Local Issuing Authority: CITY OF VALDOSTA — Date on Plans: 10/1/2025

Name & Email of person filling out checklist: MATTHEW INMAN, PE (MINMAN@AECONLLC.NET)

Plan Page #	Included Y/N		TO BE SHOWN ON ES&PC PLAN
C5.0	Y	1.	The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed. Permit IV.D.1. pg 28
C4.0-C5.2, C7.0	Y	2.	Level II certification number issued by the Commission, signature and seal of the certified design professional. Signature, seal and level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be reviewed. The Level II certification must be issued to the Design Professional, after completion of a GSWCC approved course, and whose signature and seal are on the Plan.
C2.0, C5.0	Y	3.	The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.
C2.0, C5.0	Y	4.	Provide the name, address, email address, and phone number of Primary Permittee.
C4.0-C4.8	Y	5.	Note total and disturbed acreages of the project or phase under construction.
C4.0, C4.8	Y	6.	Provide the GPS locations of the beginning and end of the infrastructure project. Give the Latitudes and Longitudes in decimal degrees.
ALL	Y	7.	Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
C2.0	Y	8.	Descriptions of the nature of construction activity and existing site conditions.
C1.0, C5.0	Y	9.	Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
C2.0, C5.0	Y	10.	Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
C1.0, C5.0	Y	11.	Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on Part IV page 21 of the permit.
C1.0, C5.0	Y	12.	Design professional's certification statement and signature that the Permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 21 of the permit. *
C1.0, C5.0	Y	13.	Design professional certification statement and signature that the Permittee's ES&PC Plan provides for representative sampling as stated on Part IV.D.6.c.(3). page 37 of the permit as applicable. *
C4.0 - C5.0	Y	14.	Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect and certify the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation." *
C4.0 - C5.0	Y	15.	Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
NONE	N	16.	Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
C4.0 - C5.0	Y	17.	Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional." *
C4.0 - C5.0	Y	18.	Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit." *
C4.0 - C5.0	Y	19.	Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
C4.0 - C5.0	Y	20.	Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
C4.0 - C5.0	Y	21.	Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
NONE	N	22.	Any construction activity which discharges storm water into a Biota Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as any portion of a Biota Impaired Stream Segment, must comply with Part III.C. of the permit. Include the completed Appendix 1 of this checklist with at least 4 of the chosen BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *
NONE	N	23.	If a TMDL Implementation Plan for sediment has been finalized for the Biota Impaired Stream Segment (identified in Item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *
NONE	N	24.	BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Include statement that washout of the drum at the construction site is prohibited. *
C5.0	Y	25.	Provide BMPs for the remediation of all petroleum spills and leaks.
C5.0	Y	26.	Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. *
C5.0	Y	27.	Description of practices to provide cover for building materials and building products on site. *
C5.0	Y	28.	Description of the practices that will be used to reduce the pollutants in storm water discharges. *
C5.0	Y	29.	Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, grading, infrastructure, temporary and final stabilization).
C5.1	Y	30.	Provide complete requirements of Inspections and record keeping by the Primary Permittee. *
C5.1	Y	31.	Provide complete requirements of Sampling Frequency and Reporting of sampling results. *
C5.1	Y	32.	Provide complete details for Retention of Records as per Part IV.F. of the permit. *
C5.1	Y	33.	Description of analytical methods to be used to collect and analyze the samples from each location. *
C5.0	Y	34.	Appendix B rationale for NTU values at all outfall sampling points where applicable. *
NONE	N	35.	Delineate all sampling locations on all phases of the Plan, and perennial and intermittent streams and other water bodies into which storm water is discharged. *
C4.0 - C4.8	Y	36.	A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial sediment storage requirements and initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all BMPs into a single phase plan. *
C4.0 - C4.8	Y	37.	Graphic scale and North arrow.
C4.0 - C4.8	Y	38.	Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:
NONE	N	39.	Use of Alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by GAEPD or the Georgia Soil and Water Conservation Commission). Refer to the Alternative BMP Guidance Document found at www.gaswcc.georgia.gov.
NONE	N	40.	Use of Alternative BMP for application to the Equivalent BMP List. Refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. *
NONE	N	41.	Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State Waters and any additional buffers as required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
NONE	N	42.	Delineation of all State Waters and wetlands located on or within 200 feet of the project site.
NONE	N	43.	Delineation and acreage of contributing drainage basins on the project site.
C4.0 - C4.8	Y	44.	Delineate on-site drainage and off-site watersheds using USGS 1":2000' topographical sheets.
NONE	N	45.	Estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
C4.2	Y	46.	Storm drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify / Delineate at all storm water discharge points.
NONE	N	47.	Soil series for the project site and their delineation.
C4.0 - C4.8	Y	48.	The limits of disturbance for each phase of construction.
C4.0 - C4.8, C7.0	Y	49.	Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 57 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, Permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.
C4.0 - C4.8	Y	50.	Location of Best Management Practices that are consistent with, and no less stringent than, the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual Chapter 6, with legend.
C7.0	Y	51.	Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
C7.0	Y	52.	Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.

Existing Contours	USGS 1" : 2000' Topographical Sheets
Proposed Contours	1" : 400' Centerline Profile

*** If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream, the * checklist items would be N/A.**

Effective January 1, 2025

(28)

MITIGATION OF SITE POLLUTANTS

NAME OF POLLUTANT	MITIGATION METHOD/BMP
SEDIMENT	CONSTRUCTION EXIT
	SILT FENCE
	INLET PROTECTION
	MULCH/GRASSING
PETROLEUM PRODUCTS	SEE ES&PC NOTES ON THIS SHEET
BUILDING MATERIALS	SEE ES&PC NOTES ON THIS SHEET
CONCRETE	SEE INTERMEDIATE EROSION AND SEDIMENTATION CONTROL NOTES

(34)

WATERS SUPPORTING WARM WATER FISHERIES

	SURFACE WATER DRAINAGE AREA, SQUARE MILES							
SITE SIZE, ACRES	0 - 4.99	5 - 9.99	10 - 24.99	25 -49.99	50 - 99.99	100 - 249.99	250 - 499.99	500 +
1.00 - 10	75	150	200	400	750	750	750	750
10.01 - 25	50	100	100	200	300	500	750	750
25.01 - 50	50	50	100	100	200	300	750	750
50.01 - 100	50	50	50	100	100	150	300	600
100.01 +	50	50	50	50	50	100	200	100

SEE APPENDIX B

(29)

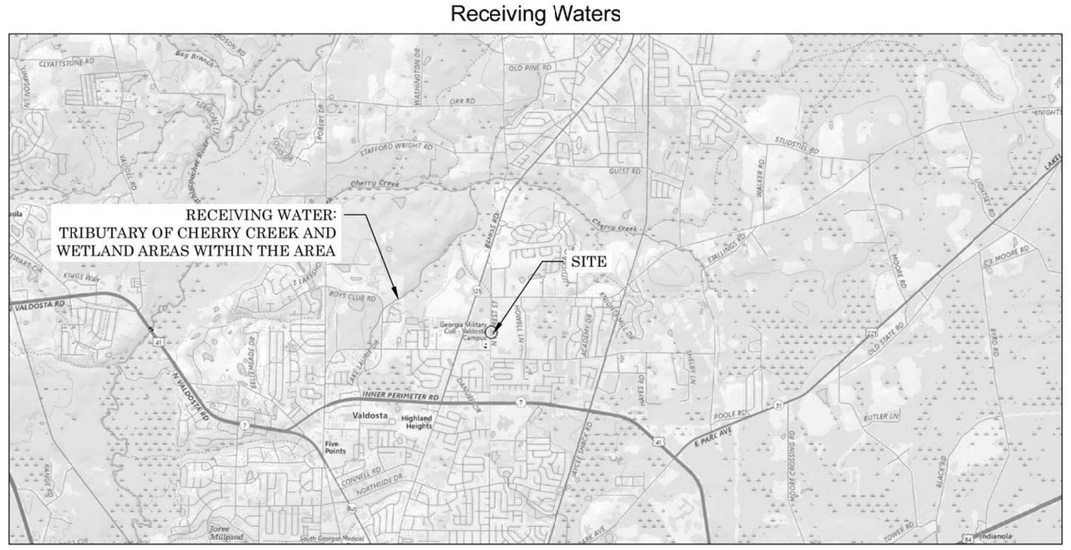
ACTIVITY SCHEDULE

ANTICIPATED START DATE: 01/05/2026

ANTICIPATED END DATE: 07/05/2026

ACTIVITY	MONTH 1	MONTH 2	MONTH 3	MONTH 4	MONTH 5	MONTH 6
INSTALLATION & MAINTENANCE OF INITIAL BMPS						
CLEARING & GRUBBING						
INSTALLATION & MAINTENANCE OF INTERMEDIATE BMPS						
GRADING, STORMWATER, & UTILITY INSTALLATION						
BUILDING CONSTRUCTION						
FINAL GRADING, PAVING, & FINAL BMP INSTALLATION						
REMOVAL OF ALL TEMPORARY BMPS						

Receiving Waters



(35) RECEIVING WATERS MAP

USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data.

NOT TO SCALE

(4) PRIMARY PERMITTEE:

CITY OF VALDOSTA
300 NORTH LEE STREET
VALDOSTA, GA 31602
PHONE: (229) 259-3530
BODOWD@VALDOSTACITY.COM

(3) 24-HOUR EMERGENCY CONTACT:

BENJAMIN O'DOWD, PE
PHONE: (229) 259-3530

ES&PC NOTES:

(26) (27) (29) 1. FOR BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS PRESENT ON THE SITE, PROVIDE COVER (E.G. PLASTIC SHEETING, TEMPORARY ROOFS) TO MINIMIZE THE EXPOSURE OF THESE PRODUCTS TO PRECIPITATION AND TO STORMWATER, OR A SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMUZE THE DISCHARGE OF POLLUTANTS FROM THESE AREAS. MINIMIZATION OF EXPOSURE IS NOT REQUIRED IN CASES WHERE EXPOSURE TO PRECIPITATION AND TO STORMWATER WILL NOT RESULT IN A DISCHARGE OF POLLUTANTS, OR WHERE EXPOSURE OF A SPECIFIC MATERIAL OR PRODUCT POSES LITTLE RISK TO STORMWATER CONTAMINATION (SUCH AS FINAL PRODUCTS AND MATERIALS INTENDED FOR OUTDOOR USE).

(26) (27) (29) 2. WASTE DISPOSAL. LOCATE WASTE COLLECTION AREAS AWAY FROM STREETS, GUTTERS, WATERCOURSES AND STORM DRAINS. WASTE COLLECTION AREAS, SUCH AS DUMPSTERS, ARE OFTEN BEST LOCATED NEAR CONSTRUCTION SITE ENTRANCES TO MINIMIZE TRAFFIC ON DISTURBED SOILS. THE PLAN SHOULD INCLUDE SECONDARY CONTAINMENT AROUND LIQUID WASTE COLLECTION AREAS TO FURTHER MINIMIZE THE LIKELIHOOD OF CONTAMINATED DISCHARGES. SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

3. ALL PERMITEES ARE REQUIRED TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING TRENCHES AND EXCAVATIONS. DISCHARGES ARE PROHIBITS UNLESS MANAGED BY APPROPRIATE CONTROLS.

(25) (28) 4. IF ANY PETROLEUM PRODUCTS ARE KEPT ON SITE, THEN THEY SHALL BE KEPT IN A SECURE AREA AND MONITORED DAILY FOR ANY SPILLS OR LEAKS AND NOTED IN THE SAME DAY IN THE DAILY REPORT.

(25) (28) 5. IF ANY PETROLEUM PRODUCTS ARE SPILLED OR LEAK ON SITE THEY ARE TO IMMEDIATELY BE TREATED WITH OIL-DRI OR A COMPARABLE PRODUCT. AFTER TREATMENT, THE CONTAMINATED ABSORBENT MUST BE DISPOSED OF IN COMPLIANCE WITH GEORGIA EPD AND DEPARTMENT OF NATURAL RESOURCES REGULATIONS.

(25) (28) 6. IF ANY PETROLEUM OR HARMFUL PRODUCTS ENTERS STATE WATERS OR ANY TRANSPORTATION TO STATE WATERS OF ANY DISCERNIBLE AMOUNT, THE SPILL SHALL BE REPORTED TO THE DEPARTMENT OF NATURAL RESOURCES EMERGENCY OPERATION CENTER AT 1-800-424-8802.

(25) (28) 7. IF ANY PETROLEUM OR HARMFUL PRODUCTS ARE STORED ON SITE THEN THEY SHALL BE PLACED AS FAR FROM WETLANDS, DRAINAGE DITCHES, STORMWATER SYSTEMS, AND OTHER ENVIRONMENTALLY SENSITIVE AREAS AS POSSIBLE TO PROVIDE AS MUCH PROTECTION AS POSSIBLE. THESE AREAS SHOULD BE SURROUNDED BY BERMS OR OTHER PROTECTIVE MEASURES TO ENSURE THE CAPTURE OF ANY MATERIAL SHOULD LEAKS OR SPILLS OCCUR.

8. STABILIZATION OF THE SITE DURING CONSTRUCTION WITH PERMANENT VEGETATION SUCH AS (Ds3 AND Ds4) WILL BE INSTALLED IN ACCORDANCE WITH THE GRASSING SCHEDULE TO OPTIMIZE GROWTH TO STABILIZE THE SITE ONCE CONSTRUCTION IS COMPLETE AND WILL CONTROL ANY FOSSIBLE POLLUTANTS FROM THE SITE.

(8) 9. THE EXISTING CONDITIONS OF THE SITE CONTAINS [EXISTING USE]. THE PROPOSED USE OF THE SITE IS SANITARY SEWER LIFT STATION, WITH ASSOCIATED PAVING, SANITARY, STORM, AND OTHER UTILITY INFRASTRUCTURE.

(11) 10. THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WITHIN 7 DAYS AFTER INSTALLATION.

(15) 11. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

(17) 12. AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

(18) 13. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

(19) 14. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.

(20) 15. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

(21) 16. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

17. THE RECEIVING WATERS FOR THIS SITE HAS BEEN IDENTIFIED AS TRIBUTARY OF CHERRY CREEK AND WETLAND AREAS WITHIN THE AREA.

(24) 18. CONTRACTOR SHALL INSTALL CONCRETE WASH AREA. CONCRETE WASH AREA SHALL BE USED FOR WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND REAR OF THE VEHICLES ONLY. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

(12) I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORMWATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR100002.

(13) I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

LEVEL II DESIGN PERSONNEL	LEVEL II CERTIFICATION NO.	DATE
	0000000885	10/1/2025

AXIS ENGINEERING CONSULTANTS
LEESBURG★VALDOSTA★WARNER ROBINS

GEORGIA — AXIS ENGINEERING CONSULTANTS — PEF009117 — 06/30/2026 — CERTIFICATE OF AUTHORIZATION

GEORGIA — REGISTERED — No. PE039411 — PROFESSIONAL — 10/1/2025 — ENGINEER — B. MATTHEW INMAN

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

B. Matthew Inman
LEVEL II CERTIFIED DESIGN PROFESSIONAL

CERTIFICATION NUMBER: 0000000885
ISSUED 06/01/2022 EXPIRES: 06/01/2025

AEC PROJECT NUMBER
25-25058

DATE OF PLANS
8/5/2025

REVISIONS

NO.	DATE	DESCRIPTION
1	10/1/2025	REV. PER CITY COMMENTS
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
9	-	-
10	-	-

KAR LIFT STATION
CITY OF VALDOSTA
EROSION, SEDIMENTATION, & POLLUTION CONTROL NOTES

VALDOSTA, LOWNDES COUNTY, GEORGIA

NOT TO SCALE

SHEET
C5.0 OF 40

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GENERAL NPDES PERMIT NO. GAR100002

(PERMIT EFFECTIVE AUGUST 1, 2023 - JULY 31, 2028)

Part IV. EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN

A SITE-SPECIFIC EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN (PLAN) SHALL BE DESIGNED, INSTALLED AND MAINTAINED FOR THE ENTIRE CONSTRUCTION ACTIVITY COVERED BY THIS PERMIT. THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN MUST BE PREPARED BY A DESIGN PROFESSIONAL AS DEFINED BY THIS PERMIT. ALL PERSONS INVOLVED IN PLAN PREPARATION SHALL HAVE COMPLETED THE APPROPRIATE CERTIFICATION COURSE, PURSUANT TO O.C.G.A. 12-7-19(B), APPROVED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION. THE DESIGN PROFESSIONAL PREPARING THE PLAN MUST INCLUDE AND SIGN THE FOLLOWING CERTIFICATION IN THE PLAN:

> "I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORMWATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR100002."

THE PLAN SHALL INCLUDE ANY ADDITIONAL CERTIFICATIONS REGARDING THE DESIGN PROFESSIONAL'S SITE VISIT IN ACCORDANCE WITH THE RULES FOR EROSION AND SEDIMENTATION CONTROL PROMULGATED BY THE BOARD OF NATURAL RESOURCES:

> "I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION."

THE PLAN SHALL INCLUDE, AS A MINIMUM, BEST MANAGEMENT PRACTICES, INCLUDING SOUND CONSERVATION AND ENGINEERING PRACTICES TO PREVENT AND MINIMIZE EROSION AND RESULTANT SEDIMENTATION, WHICH ARE CONSISTENT WITH, AND NO LESS STRINGENT THAN, THOSE PRACTICES CONTAINED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED AND O.C.G.A. 12-7-6, AS WELL AS THE FOLLOWING:

(i). EXCEPT AS PROVIDED IN PART IV.(iii) BELOW, NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 25 FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, EXCEPT WHERE THE DIRECTOR HAS DETERMINED TO ALLOW A VARIANCE THAT IS AT LEAST AS PROTECTIVE OF NATURAL RESOURCES AND THE ENVIRONMENT IN ACCORDANCE WITH THE PROVISIONS OF O.C.G.A. 12-7-6, OR WHERE A DRAINAGE STRUCTURE OR A ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED, PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED IN THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED, OR ALONG ANY EPHEMERAL STREAM, OR WHERE BULKHEADS AND SEAWALLS MUST BE CONSTRUCTED TO PREVENT THE EROSION OF THE SHORELINE ON LAKE OCONEE AND LAKE SINCLAIR. THE BUFFER SHALL NOT APPLY TO THE FOLLOWING ACTIVITIES PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED:

(1) PUBLIC DRINKING WATER SYSTEM RESERVOIRS:
(2) FENCES:
(3) STREAM CROSSINGS FOR WATER LINES AND SEWER LINES, PROVIDED THAT THE STREAM CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER, AND NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER;
(4) STREAM CROSSINGS FOR ANY UTILITY LINES OF ANY ELECTRIC MEMBERSHIP CORPORATION OR MUNICIPAL ELECTRICAL SYSTEM OR ANY PUBLIC UTILITY UNDER THE REGULATORY JURISDICTION OF THE PUBLIC SERVICE COMMISSION, ANY UTILITY UNDER THE REGULATORY JURISDICTION OF THE FEDERAL ENERGY REGULATORY COMMISSION, ANY CABLE TELEVISION SYSTEM AS DEFINED IN CODE SECTION 36-18-1, OR ANY AGENCY OR INSTRUMENTALITY OF THE UNITED STATES ENGAGED IN THE GENERATION, TRANSMISSION OR DISTRIBUTION OF POWER, PROVIDED THAT: (a) THE STREAM CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER, (b) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER AND (c) THE ENTITY IS NOT A SECONDARY PERMITTEE FOR A PROJECT LOCATED WITHIN A COMMON DEVELOPMENT OR SALE UNDER THIS PERMIT;
(5) STREAM CROSSINGS FOR AERIAL UTILITY LINES, PROVIDED THAT: (a) THE NEW UTILITY LINE RIGHT-OF-WAY WIDTH DOES NOT EXCEED 200 LINEAR FEET, (b) UTILITY LINES ARE ROUTED AND CONSTRUCTED SO AS TO MINIMIZE THE NUMBER OF STREAM CROSSINGS AND DISTURBANCES TO THE BUFFER, (c) ONLY TREES AND TREE DEBRIS ARE REMOVED FROM WITHIN THE BUFFER RESULTING IN ONLY MINOR SOIL EROSION (I.E., DISTURBANCE TO UNDERLYING VEGETATION IS MINIMIZED), AND (D) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER. THE PLAN SHALL INCLUDE A DESCRIPTION OF THE STREAM CROSSINGS WITH DETAILS OF THE BUFFER DISTURBANCE INCLUDING AREA AND LENGTH OF BUFFER DISTURBANCE, ESTIMATED LENGTH OF TIME OF BUFFER DISTURBANCE, AND JUSTIFICATION;
(6) RIGHT-OF-WAY POSTS, GUY-WIRES, ANCHORS, SURVEY MARKERS AND THE REPLACEMENT OR MAINTENANCE OF EXISTING UTILITY STRUCTURES WITHIN THE RIGHT-OF-WAY UNDERTAKEN OR FINANCED IN WHOLE OR IN PART BY THE DEPARTMENT OF TRANSPORTATION, THE GEORGIA HIGHWAY AUTHORITY OR THE STATE ROAD AND TOLLWAY AUTHORITY OR UNDERTAKEN BY ANY COUNTY OR MUNICIPALITY, PROVIDED THAT: (a) THE AREA OF LAND DISTURBANCE DOES NOT EXCEED 100 SQUARE FEET PER STRUCTURE, (b) THE AREA OF BUFFER VEGETATION TO BE CUT (NOT GRUBBED) DOES NOT EXCEED 1,000 SQUARE FEET PER STRUCTURE, (c) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER AND (d) THE ENTITY IS NOT A SECONDARY PERMITTEE FOR A PROJECT LOCATED WITHIN A COMMON DEVELOPMENT OR SALE UNDER THIS PERMIT; AND
(7) RIGHT-OF-WAY POSTS, GUY-WIRES, ANCHORS, SURVEY MARKERS AND THE REPLACEMENT OR MAINTENANCE OF EXISTING UTILITY STRUCTURES WITHIN THE CURRENT RIGHT-OF-WAY UNDERTAKEN BY ANY ELECTRIC MEMBERSHIP CORPORATION OR MUNICIPAL ELECTRICAL SYSTEM OR ANY PUBLIC UTILITY UNDER THE REGULATORY JURISDICTION OF THE PUBLIC SERVICE COMMISSION, ANY UTILITY UNDER THE REGULATORY JURISDICTION OF THE FEDERAL ENERGY REGULATORY COMMISSION, ANY CABLE TELEVISION SYSTEM AS DEFINED IN CODE SECTION 36-18-1, OR ANY AGENCY OR INSTRUMENTALITY OF THE UNITED STATES ENGAGED IN THE GENERATION, TRANSMISSION OR DISTRIBUTION OF POWER, PROVIDED THAT: (a) THE AREA OF LAND DISTURBANCE DOES NOT EXCEED 100 SQUARE FEET PER STRUCTURE, (b) THE AREA OF BUFFER VEGETATION TO BE CUT (NOT GRUBBED) DOES NOT EXCEED 1,000 SQUARE FEET PER STRUCTURE, (c) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER AND (d) THE ENTITY IS NOT A SECONDARY PERMITTEE FOR A PROJECT LOCATED WITHIN A COMMON DEVELOPMENT OR SALE UNDER THIS PERMIT.

(ii). NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 50 FOOT BUFFER, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, ALONG THE BANKS OF ANY STATE WATERS CLASSIFIED AS 'TROUT STREAMS' EXCEPT WHEN APPROVAL IS GRANTED BY THE DIRECTOR FOR ALTERNATE BUFFER REQUIREMENTS IN ACCORDANCE WITH THE PROVISIONS OF O.C.G.A. 12-7-6, OR WHERE A ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED; PROVIDED, HOWEVER, THAT SMALL SPRINGS AND STREAMS CLASSIFIED AS 'TROUT STREAMS' WHICH DISCHARGE AN AVERAGE ANNUAL FLOW OF 25 GALLONS PER MINUTE OR LESS SHALL HAVE A 25 FOOT BUFFER OR THEY MAY BE PIPED, AT THE DISCRETION OF THE PERMITTEE, PURSUANT TO THE TERMS OF A RULE PROVIDING FOR A GENERAL VARIANCE PROMULGATED BY THE BOARD OF NATURAL RESOURCES INCLUDING NOTIFICATION OF SUCH TO EPD AND THE LOCAL ISSUING AUTHORITY OF THE LOCATION AND EXTENT OF THE PIPING AND PRESCRIBED METHODOLOGY FOR MINIMIZING THE IMPACT OF SUCH PIPING AND FOR MEASURING THE VOLUME OF WATER DISCHARGED BY THE STREAM. ANY SUCH PIPE MUST STOP SHORT OF THE DOWNSTREAM PERMITTEE'S PROPERTY, AND THE PERMITTEE MUST COMPLY WITH THE BUFFER REQUIREMENT FOR ANY ADJACENT TROUT STREAMS. THE BUFFER SHALL NOT APPLY TO THE FOLLOWING ACTIVITIES PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED:

(1) PUBLIC DRINKING WATER SYSTEM RESERVOIRS:
(2) FENCES:
(3) STREAM CROSSINGS FOR WATER LINES AND SEWER LINES, PROVIDED THAT THE STREAM CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER, AND NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER;
(4) STREAM CROSSINGS FOR ANY UTILITY LINES OF ANY ELECTRIC MEMBERSHIP CORPORATION OR MUNICIPAL ELECTRICAL SYSTEM OR ANY PUBLIC UTILITY UNDER THE REGULATORY JURISDICTION OF THE PUBLIC SERVICE COMMISSION, ANY UTILITY UNDER THE REGULATORY JURISDICTION OF THE FEDERAL ENERGY REGULATORY COMMISSION, ANY CABLE TELEVISION SYSTEM AS DEFINED IN CODE SECTION 36-18-1, OR ANY AGENCY OR INSTRUMENTALITY OF THE UNITED STATES ENGAGED IN THE GENERATION, TRANSMISSION OR DISTRIBUTION OF POWER, PROVIDED THAT: (a) THE STREAM CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER. (b) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER AND (c) THE ENTITY IS NOT A SECONDARY PERMITTEE FOR A PROJECT LOCATED WITHIN A COMMON DEVELOPMENT OR SALE UNDER THIS PERMIT:
(5) STREAM CROSSINGS FOR AERIAL UTILITY LINES, PROVIDED THAT: (a) THE NEW UTILITY LINE RIGHT-OF-WAY WIDTH DOES NOT EXCEED 200 LINEAR FEET, (b) UTILITY LINES ARE ROUTED AND CONSTRUCTED SO AS TO MINIMIZE THE NUMBER OF STREAM CROSSINGS AND DISTURBANCES TO THE BUFFER, (c) ONLY TREES AND TREE DEBRIS ARE REMOVED FROM WITHIN THE BUFFER RESULTING IN ONLY MINOR SOIL EROSION (I.E., DISTURBANCE TO UNDERLYING VEGETATION IS MINIMIZED), AND (D) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER. THE PLAN SHALL INCLUDE A DESCRIPTION OF THE STREAM CROSSINGS WITH DETAILS OF THE BUFFER DISTURBANCE INCLUDING AREA AND LENGTH OF BUFFER DISTURBANCE, ESTIMATED LENGTH OF TIME OF BUFFER DISTURBANCE, AND JUSTIFICATION;
(6) RIGHT-OF-WAY POSTS, GUY-WIRES, ANCHORS, SURVEY MARKERS AND THE REPLACEMENT OR MAINTENANCE OF EXISTING UTILITY STRUCTURES WITHIN THE CURRENT RIGHT-OF-WAY UNDERTAKEN OR FINANCED IN WHOLE OR IN PART BY THE DEPARTMENT OF TRANSPORTATION, THE GEORGIA HIGHWAY AUTHORITY OR THE STATE ROAD AND TOLLWAY AUTHORITY OR UNDERTAKEN BY ANY COUNTY OR MUNICIPALITY, PROVIDED THAT: (a) THE AREA OF LAND DISTURBANCE DOES NOT EXCEED 100 SQUARE FEET PER STRUCTURE, (b) THE AREA OF BUFFER VEGETATION TO BE CUT (NOT GRUBBED) DOES NOT EXCEED 1,000 SQUARE FEET PER STRUCTURE, (c) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER AND (d) THE ENTITY IS NOT A SECONDARY PERMITTEE FOR A PROJECT LOCATED WITHIN A COMMON DEVELOPMENT OR SALE UNDER THIS PERMIT; AND
(7) RIGHT-OF-WAY POSTS, GUY-WIRES, ANCHORS, SURVEY MARKERS AND THE REPLACEMENT OR MAINTENANCE OF EXISTING UTILITY STRUCTURES WITHIN THE CURRENT RIGHT-OF-WAY UNDERTAKEN BY ANY ELECTRIC MEMBERSHIP CORPORATION OR MUNICIPAL ELECTRICAL SYSTEM OR ANY PUBLIC UTILITY UNDER THE REGULATORY JURISDICTION OF THE PUBLIC SERVICE COMMISSION, ANY UTILITY UNDER THE REGULATORY JURISDICTION OF THE FEDERAL ENERGY REGULATORY COMMISSION, ANY CABLE TELEVISION SYSTEM AS DEFINED IN CODE SECTION 36-18-1, OR ANY AGENCY OR INSTRUMENTALITY OF THE UNITED STATES ENGAGED IN THE GENERATION, TRANSMISSION OR DISTRIBUTION OF POWER, PROVIDED THAT: (a) THE AREA OF LAND DISTURBANCE DOES NOT EXCEED 100 SQUARE FEET PER STRUCTURE, (b) THE AREA OF BUFFER VEGETATION TO BE CUT (NOT GRUBBED) DOES NOT EXCEED 1,000 SQUARE FEET PER STRUCTURE, (c) VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER AND (d) THE ENTITY IS NOT A SECONDARY PERMITTEE FOR A PROJECT LOCATED WITHIN A COMMON DEVELOPMENT OR SALE UNDER THIS PERMIT.

(iii). EXCEPT AS PROVIDED IN PART IV(IV) BELOW, NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 25 FOOT BUFFER ALONG COASTAL MARSHLANDS. AS MEASURED HORIZONTALLY FROM THE COASTAL MARSHLAND-UPLAND INTERFACE, AS DETERMINED IN ACCORDANCE WITH PART 4 OF ARTICLE 4 OF CHAPTER 5 OF TITLE 12, THE COASTAL MARSHLANDS PROTECTION ACT OF 1970, AND THE RULES AND REGULATIONS PROMULGATED THEREUNDER, EXCEPT WHERE THE DIRECTOR DETERMINES TO ALLOW A VARIANCE THAT IS AT LEAST AS PROTECTIVE OF NATURAL RESOURCES AND THE ENVIRONMENT IN ACCORDANCE WITH THE PROVISIONS OF O.C.G.A. 12-7-6, OR WHERE OTHERWISE ALLOWED BY THE DIRECTOR PURSUANT TO CODE SECTION 12-2-8, OR WHERE AN ALTERATION WITHIN THE BUFFER AREA HAS BEEN AUTHORIZED PURSUANT TO CODE SECTION 12-5-286, OR FOR MAINTENANCE OF ANY CURRENTLY SERVICEABLE STRUCTURE, LANDSCAPING, OR HARDSCAPING, INCLUDING BRIDGES, ROADS, PARKING LOTS, GOLF COURSES, GOLF CART PATHS, RETAINING WALLS, BULKHEADS, AND PATIOS, PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS AND SUCH MEASURES ARE FULLY IMPLEMENTED, OR WHERE A DRAINAGE STRUCTURE OR ROADWAY DRAINAGE STRUCTURE IS CONSTRUCTED OR MAINTAINED, PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS AND SUCH MEASURES ARE FULLY IMPLEMENTED, OR ON THE LANDWARD SIDE OF ANY CURRENTLY SERVICEABLE SHORELINE STABILIZATION STRUCTURE, OR FOR THE MAINTENANCE OF ANY MANMADE STORMWATER DETENTION BASIN, GOLF COURSE POND, OR IMPOUNDMENT THAT IS LOCATED ENTIRELY WITHIN THE PROPERTY OF A SINGLE INDIVIDUAL, PARTNERSHIP, OR CORPORATION, PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS AND SUCH MEASURES ARE FULLY IMPLEMENTED. THE BUFFER SHALL NOT APPLY TO THE FOLLOWING ACTIVITIES PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS AND SUCH MEASURES ARE FULLY IMPLEMENTED:

(1) PUBLIC DRINKING WATER SYSTEM RESERVOIRS:
(2) CROSSINGS FOR UTILITY LINES THAT CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER:
(3) ANY LAND-DISTURBING ACTIVITY CONDUCTED PURSUANT TO AND IN COMPLIANCE WITH A VALID AND EFFECTIVE LAND-DISTURBING PERMIT ISSUED SUBSEQUENT TO APRIL 22, 2014, AND PRIOR TO DECEMBER 31, 2015;
(4) ANY LOT FOR WHICH THE PRELIMINARY PLAT HAS BEEN APPROVED PRIOR TO DECEMBER 31, 2015 IF ROADWAYS, BRIDGES, OR WATER AND SEWER LINES HAVE BEEN EXTENDED TO SUCH LOT PRIOR TO THE EFFECTIVE DATE OF THIS ACT AND IF THE REQUIREMENT TO MAINTAIN A 25 FOOT BUFFER WOULD CONSUME AT LEAST 18 PERCENT OF THE HIGH GROUND OF THE PLATTED LOT OTHERWISE AVAILABLE FOR DEVELOPMENT:
(5) FENCES:
(6) CROSSINGS FOR AERIAL UTILITY LINES, PROVIDED THAT: (A) THE NEW UTILITY LINE RIGHT-OF-WAY WIDTH DOES NOT EXCEED 200 LINEAR FEET, (B) UTILITY LINES ARE ROUTED AND CONSTRUCTED SO AS TO MINIMIZE THE NUMBER OF CROSSINGS AND DISTURBANCES TO THE BUFFER, (C) ONLY TREES AND TREE DEBRIS ARE REMOVED FROM WITHIN THE BUFFER RESULTING IN ONLY MINOR SOIL EROSION (I.E., DISTURBANCE TO UNDERLYING VEGETATION IS MINIMIZED), AND (D) VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER. THE PLAN SHALL INCLUDE A DESCRIPTION OF THE CROSSINGS WITH DETAILS OF THE BUFFER DISTURBANCE INCLUDING AREA AND LENGTH OF BUFFER DISTURBANCE, ESTIMATED LENGTH OF TIME OF BUFFER DISTURBANCE, AND JUSTIFICATION;
(7) RIGHT-OF-WAY POSTS, GUY WIRES, ANCHORS, SURVEY MARKERS AND THE REPLACEMENT AND MAINTENANCE OF EXISTING UTILITY STRUCTURES WITHIN THE CURRENT RIGHT-OF-WAY UNDERTAKEN OR FINANCED IN WHOLE OR IN PART BY THE DEPARTMENT OF TRANSPORTATION, THE GEORGIA HIGHWAY AUTHORITY OR THE STATE ROAD AND TOLLWAY AUTHORITY OR UNDERTAKEN BY ANY COUNTY OR MUNICIPALITY, PROVIDED THAT: (a) THE AREA OF LAND DISTURBANCE DOES NOT EXCEED 100 SQUARE FEET PER STRUCTURE, (b) THE AREA OF BUFFER VEGETATION TO BE CUT (NOT GRUBBED) DOES NOT EXCEED 1,000 SQUARE FEET PER STRUCTURE, (c) VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER AND (d) THE ENTITY IS NOT A SECONDARY PERMITTEE FOR A PROJECT LOCATED WITHIN A COMMON DEVELOPMENT OR SALE UNDER THIS PERMIT; AND
(8) RIGHT-OF-WAY POSTS, GUY WIRES, ANCHORS, SURVEY MARKERS AND THE REPLACEMENT AND MAINTENANCE OF EXISTING UTILITY STRUCTURES WITHIN THE CURRENT RIGHT-OF-WAY BY ANY ELECTRIC MEMBERSHIP CORPORATION OR MUNICIPAL ELECTRICAL SYSTEM OR ANY PUBLIC UTILITY UNDER THE REGULATORY JURISDICTION OF THE PUBLIC SERVICE COMMISSION, ANY UTILITY UNDER THE REGULATORY JURISDICTION OF THE FEDERAL ENERGY REGULATORY COMMISSION, ANY CABLE TELEVISION SYSTEM AS DEFINED IN CODE SECTION 36-18-1, OR ANY AGENCY OR INSTRUMENTALITY OF THE UNITED STATES ENGAGED IN THE GENERATION, TRANSMISSION OR DISTRIBUTION OF POWER, PROVIDED THAT (a) THE AREA OF LAND DISTURBANCE DOES NOT EXCEED 100 SQUARE FEET PER STRUCTURE, (b) THE AREA OF BUFFER VEGETATION TO BE CUT (NOT GRUBBED) DOES NOT EXCEED 1,000 SQUARE FEET PER STRUCTURE, (c) VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER AND (D) THE ENTITY IS NOT A SECONDARY PERMITTEE FOR A PROJECT LOCATED WITHIN A COMMON DEVELOPMENT OR SALE UNDER THIS PERMIT.

(iv). EXCEPT AS PROVIDED ABOVE, FOR BUFFERS REQUIRED PURSUANT TO PART IV.(i). AND (ii) AND (iii), NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A BUFFER AND A BUFFER SHALL REMAIN IN ITS NATURAL, UNDISTURBED, STATE OF VEGETATION UNTIL ALL LAND-DISTURBING ACTIVITIES ON THE CONSTRUCTION SITE ARE COMPLETED. DURING COVERAGE UNDER THIS PERMIT, A BUFFER CANNOT BE THINNED OR TRIMMED OF VEGETATION AND A PROTECTIVE VEGETATIVE COVER MUST REMAIN TO PROTECT WATER QUALITY AND AQUATIC HABITAT AND A NATURAL CANOPY MUST BE LEFT IN SUFFICIENT QUANTITY TO KEEP SHADE ON THE STREAM BED OR MARSH.

THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN SHALL IDENTIFY ALL POTENTIAL SOURCES OF POLLUTION WHICH MAY REASONABLY BE EXPECTED TO AFFECT THE QUALITY OF STORMWATER DISCHARGES FROM THE CONSTRUCTION SITE. IN ADDITION, THE PLAN SHALL DESCRIBE AND THE APPLICABLE PERMITTEE SHALL ENSURE THE IMPLEMENTATION OF PRACTICES WHICH WILL BE USED TO REDUCE THE POLLUTANTS IN STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY AT THE SITE AND TO ASSURE COMPLIANCE WITH THE TERMS AND CONDITIONS OF THIS PERMIT. THE APPLICABLE PERMITTEE MUST IMPLEMENT AND MAINTAIN THE PROVISIONS OF THE PLAN REQUIRED UNDER THIS PART AS A CONDITION OF THIS PERMIT.

EXCEPT AS PROVIDED IN PART IV.A.2., A SINGLE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN MUST BE PREPARED BY THE PRIMARY PERMITTEE FOR THE INFRASTRUCTURE CONSTRUCTION PROJECT.

A. DEADLINES FOR PLAN PREPARATION AND COMPLIANCE.

1. EXCEPT AS PROVIDED IN PART IV.A.2.AND PART IV.A.6., THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN SHALL BE COMPLETED PRIOR TO SUBMITTING THE NOI AND PRIOR TO CONDUCTING ANY CONSTRUCTION ACTIVITY BY ANY PERMITTEE.

2. FOR CONSTRUCTION ACTIVITIES THAT BEGAN ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT AND WERE SUBJECT TO THE REGULATIONS UNDER THE PREVIOUS PERMIT, THE PERMITTEE(S) SHALL CONTINUE TO OPERATE UNDER THE EXISTING PLAN.

3. FOR CONSTRUCTION ACTIVITIES THAT BEGIN AFTER THE EFFECTIVE DATE OF THIS PERMIT, THE PRIMARY PERMITTEE SHALL BE REQUIRED TO PREPARE THE PLAN FOR THAT PHASE OF THE INFRASTRUCTURE DEVELOPMENT THAT CORRESPONDS WITH THE NOI BEING SUBMITTED AND THE PRIMARY PERMITTEE(S) SHALL IMPLEMENT THE PLAN ON OR BEFORE THE DAY CONSTRUCTION ACTIVITIES BEGIN.

4. ADDITIONAL PLAN SUBMITTALS.

a. FOR ALL PROJECTS IDENTIFIED UNDER PART I.C.1.B., IN A JURISDICTION WHERE THERE IS NO CERTIFIED LOCAL ISSUING AUTHORITY REGULATING THAT PROJECT, A SINGLE COPY OF THE PLAN MUST BE SUBMITTED TO THE EPD WATERSHED PROTECTION BRANCH AND A SECOND COPY OF THE PLAN MUST BE SUBMITTED TO THE APPROPRIATE EPD DISTRICT OFFICE PRIOR TO OR CONCURRENT WITH THE NOI SUBMITTAL. THE SECOND COPY OF THE PLAN MUST BE SUBMITTED ELECTRONICALLY AS A PORTABLE DOCUMENT FORMAT (PDF) FILE THROUGH THE ELECTRONIC SUBMITTAL SERVICE PROVIDED BY EPD, OR BY RETURN RECEIPT CERTIFIED MAIL OR SIMILAR SERVICE AS A PDF ON CD-ROM OR OTHER STORAGE DEVICE TO THE APPROPRIATE EPD DISTRICT OFFICE. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF THE SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATIVE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH A TIME AS A NOTICE OF TERMINATION (NOT) IS SUBMITTED IN ACCORDANCE WITH PART VI. THE EPD WATERSHED PROTECTION BRANCH WILL REVIEW PLANS FOR DEFICIENCIES USING THE APPLICABLE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN CHECKLIST ESTABLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED

b. FOR ALL PROJECTS WHERE THE CONSTRUCTION ACTIVITY AS INDICATED ON THE EXISTING NOI HAS CHANGED, THE AMENDED PLANS MUST BE SUBMITTED IN ACCORDANCE WITH PART IV.A.4.A. IN ADDITION, THE PERMITTEE MUST SUBMIT A MODIFICATION NOI IN ACCORDANCE WITH PART II.

5. FOR INFRASTRUCTURE PROJECTS THAT BEGIN CONSTRUCTION ACTIVITY AFTER THE EFFECTIVE DATE OF THIS PERMIT, THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, OR AN ALTERNATIVE DESIGN PROFESSIONAL APPROVED BY EPD IN WRITING, TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WITHIN SEVEN (7) DAYS AFTER INSTALLATION. ALTERNATIVELY, FOR LINEAR INFRASTRUCTURE PROJECTS, THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, OR AN ALTERNATIVE DESIGN PROFESSIONAL APPROVED BY EPD IN WRITING, TO INSPECT (a) THE INSTALLATION OF THE SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS FOR THE "INITIAL SEGMENT" OF THE LINEAR INFRASTRUCTURE PROJECT AND (b) ALL SEDIMENT BASINS WITHIN THE ENTIRE LINEAR INFRASTRUCTURE PROJECT WITHIN SEVEN (7) DAYS AFTER INSTALLATION. FOR THE PURPOSES OF THE SPECIFIC REQUIREMENTS IN PART IV.A.5., THE DISTURBED ACREAGE OF THE "INITIAL SEGMENT" OF A LINEAR INFRASTRUCTURE PROJECT MUST BE EQUAL TO OR GREATER THAN 10% OF THE TOTAL ESTIMATED DISTURBED ACREAGE FOR THE LINEAR INFRASTRUCTURE PROJECT BUT NOT LESS THAN ONE (1) ACRE. THE DESIGN PROFESSIONAL SHALL DETERMINE IF THESE BMPS HAVE BEEN INSTALLED AND ARE BEING MAINTAINED AS DESIGNED. THE DESIGN PROFESSIONAL SHALL REPORT THE RESULTS OF THE INSPECTION TO THE PRIMARY PERMITTEE WITHIN SEVEN (7) DAYS AND THE PERMITTEE MUST CORRECT ALL DEFICIENCIES WITHIN TWO (2) BUSINESS DAYS OF RECEIPT OF THE INSPECTION REPORT FROM THE DESIGN PROFESSIONAL UNLESS WEATHER RELATED SITE CONDITIONS ARE SUCH THAT ADDITIONAL TIME IS REQUIRED.

6. FOR STORM- OR EMERGENCY-RELATED REPAIR WORK, THE PERMITTEE SHALL IMPLEMENT APPROPRIATE BMPS AND CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER. IF THE STORM- OR EMERGENCY-RELATED REPAIR WORK WILL NOT BE COMPLETED WITHIN SIXTY (60) DAYS OF COMMENCEMENT OF CONSTRUCTION ACTIVITY, A SINGLE COPY OF THE PLAN SHALL BE SUBMITTED TO EPD AND THE PERMITTEE SHALL COMPLY WITH ALL REQUIREMENTS OF THIS PERMIT ON THE SIXTY-FIRST (61ST) DAY.

B. SIGNATURE AND PLAN REVIEW.

1. THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN SHALL BE SIGNED IN ACCORDANCE WITH PART IV., AND BE RETAINED ON THE SITE (OR, IF NOT POSSIBLE, AT A READILY ACCESSIBLE LOCATION) WHICH GENERATES

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c. OTHER CONTROLS.

(1). WASTE DISPOSAL. LOCATE WASTE COLLECTION AREAS AWAY FROM STREETS, GUTTERS, WATERCOURSES AND STORM DRAINS. WASTE COLLECTION AREAS, SUCH AS DUMPSTERS, ARE OFTEN BEST LOCATED NEAR CONSTRUCTION SITE ENTRANCES TO MINIMIZE TRAFFIC ON DISTURBED THE PLAN SHOULD INCLUDE SECONDARY CONTAINMENT AROUND LIQUID WASTE COLLECTION AREAS TO FURTHER MINIMIZE THE LIKELIHOOD OF CONTAMINATED DISCHARGES. SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

(2). FOR BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, FESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS PRESENT ON THE SITE, PROVIDE COVER (E.G. PLASTIC SHEETING, TEMPORARY ROOFS) TO MINIMIZE THE EXPOSURE OF THESE PRODUCTS TO PRECIPITATION AND TO STORMWATER, OR A SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THESE AREAS. MINIMIZATION OF EXPOSURE IS NOT REQUIRED IN CASES WHERE EXPOSURE TO PRECIPITATION AND TO STORMWATER WILL NOT RESULT IN A DISCHARGE OF POLLUTANTS, OR WHERE EXPOSURE OF A SPECIFIC MATERIAL OR PRODUCT POSES LITTLE RISK TO STORMWATER CONTAMINATION (SUCH AS FINAL PRODUCTS AND MATERIALS INTENDED FOR OUTDOOR USE).

(3). OFF-SITE VEHICLE TRACKING OF DIRT, SOILS, AND SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED OR ELIMINATED TO THE MAXIMUM EXTENT PRACTICAL. THE PLAN SHALL INCLUDE THE BEST MANAGEMENT PRACTICE TO BE IMPLEMENTED AT THE SITE OR CONSTRUCTION ACTIVITY.

(4). NOTHING IN THIS PERMIT RELIEVES A PERMITTEE FROM ANY OBLIGATIONS TO COMPLY WITH ALL APPLICABLE STATE AND/OR LOCAL REGULATIONS OF WASTE DISPOSAL, SANITARY SEWER, SEPTIC AND PETROLEUM STORAGE SYSTEMS.

(5). THE PLAN SHALL INCLUDE BEST MANAGEMENT PRACTICES FOR THE REMEDIATION OF ALL PETROLEUM SPILLS AND LEAKS AS APPROPRIATE.

(6). THE PLAN SHALL INCLUDE BEST MANAGEMENT PRACTICES FOR CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF VEHICLES. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED. ADDITIONAL INFORMATION ABOUT BEST MANAGEMENT PRACTICES FOR CONCRETE WASHOUT IS AVAILABLE AT THE USEPA WEBSITE.

(7). ALL PERMITTEES ARE REQUIRED TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING TRENCHES AND EXCAVATIONS. DISCHARGES ARE PROHIBITED UNLESS MANAGED BY APPROPRIATE CONTROLS.

30 4. INSPECTIONS.

a. PERMITTEE REQUIREMENTS.

(1). EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (a) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND (b) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(2). MEASURE AND RECORD RAINFALL WITHIN DISTURBED AREAS OF THE SITE THAT HAVE NOT MET FINAL STABILIZATION ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY. THE DATA COLLECTED FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.

(3). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY FOURTEEN (14) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST: (a) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE (b) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION; AND (c) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(4). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION IS SUBMITTED TO EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).

(5). BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.

(6). A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(5). OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION SITE THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A STATEMENT THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THIS PERMIT.

5. MAINTENANCE. THE PLAN SHALL INCLUDE A DESCRIPTION OF PROCEDURES TO ENSURE THE TIMELY MAINTENANCE OF VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THE SITE PLAN.

6. SAMPLING REQUIREMENTS. THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THE FOLLOWING PROCEDURES CONSTITUTE EPD'S GUIDELINES FOR SAMPLING TURBIDITY.

a. *SAMPLING REQUIREMENTS* SHALL INCLUDE THE FOLLOWING:

(1). A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE INFRASTRUCTURE CONSTRUCTION: (a) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORMWATER IS DISCHARGED AND (b) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS FOR EACH REPRESENTATIVE STORMWATER OUTFALL. WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND-DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORMWATER(S) ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP;

(2). A WRITTEN NARRATIVE OF SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION;

(3). WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE SAMPLED, A RATIONALE MUST BE INCLUDED ON THE PLAN FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES); AND

(4). ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE PLAN. EPD WILL PROVIDE WRITTEN NOTICE TO THE PERMITTEE OF THE INFORMATION NECESSARY AND THE TIME LINE FOR SUBMITTAL.

b. *SAMPLE TYPE.* ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED), THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

(1). SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.

(2). SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.

(3). LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.

(4). MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT, THE PERMITTEE MUST UTILIZE MANUAL SAMPLING OR RISING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.

(5). SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.

c. *SAMPLING POINTS.*

(1). FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES SHOWN ON THE USGS TOPOGRAPHIC MAP AND ALL OTHER FIELD VERIFIED PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES, OR ALL OUTFALLS INTO SUCH STREAMS AND OTHER WATER BODIES, OR A COMBINATION THEREOF. HOWEVER, PROVIDED FOR IN AND IN ACCORDANCE WITH PART IV.D.5.C.(2). OF THIS PERMIT, PRIMARY PERMITTEES ON AN INFRASTRUCTURE CONSTRUCTION PROJECT MAY SAMPLE THE REPRESENTATIVE PERENNIAL AND INTERMITTENT STREAMS, OTHER WATER BODIES OR OUTFALLS, OR A COMBINATION THEREOF. SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORMWATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:

(A). THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORMWATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORMWATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.

(B). THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORMWATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORMWATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.

(C). IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORMWATER OUTFALL CHANNEL(S).

(D). CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORMWATER CHANNEL.

(E). THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.

(F). THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.

(G). PERMITTEES DO NOT HAVE TO SAMPLE SHEET FLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDING TO THE PLAN (UNIFORMLY COVERED WITH LANDSCAPING MATERIALS IN PLANNED LANDSCAPED AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN THE MANUAL (EXCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION). FOR INFRASTRUCTURE CONSTRUCTION PROJECTS ON LAND USED FOR AGRICULTURAL OR SILVICULTURAL PURPOSES, FINAL STABILIZATION MAY BE ACCOMPLISHED BY STABILIZING THE DISTURBED LAND FOR ITS AGRICULTURAL OR SILVICULTURAL USE.

(H). ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORMWATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS III.D.3. OR III.D.4., WHICHEVER IS APPLICABLE.

(2). FOR INFRASTRUCTURE CONSTRUCTION PROJECTS, THE PERMITTEE IS NOT REQUIRED TO SAMPLE A PERENNIAL OR INTERMITTENT STREAM OR OTHER WATER BODIES (OR THE ASSOCIATED OUTFALL, IF APPLICABLE) IF THE DESIGN PROFESSIONAL PREPARING THE PLAN CERTIFIES THAT AN INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED RECEIVING WATER TO BE SAMPLED WILL BE REPRESENTATIVE OF THE INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UN-SAMPLED RECEIVING WATER. A WRITTEN JUSTIFICATION AND DETAILED ANALYSIS SHALL BE PREPARED BY THE DESIGN PROFESSIONAL JUSTIFYING SUCH PROPOSED SAMPLING. A SUMMARY CHART OF THE JUSTIFICATION AND ANALYSIS FOR THE REPRESENTATIVE SAMPLING MUST BE INCLUDED ON THE PLAN. THE JUSTIFICATION AND ANALYSIS SHALL INCLUDE THE LOCATION AND DESCRIPTION OF THE SPECIFIED SAMPLED AND UN-SAMPLED RECEIVING WATER AND SHALL CONTAIN A DETAILED COMPARISON AND DISCUSSION OF EACH SUCH RECEIVING WATER IN THE FOLLOWING AREAS:

(A). SITE LAND DISTURBANCES AND CHARACTERISTICS;

(B). RECEIVING WATER WATERSHED SIZES AND CHARACTERISTICS; AND

(C). SITE AND WATERSHED RUNOFF CHARACTERISTICS UTILIZING THE METHODS IN APPENDIX A-1 (UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE'S TR-55, URBAN HYDROLOGY FOR SMALL WATERSHEDS) OF THE MOST RECENT VERSION OF THE "MANUAL FOR EROSION AND SEDIMENTATION CONTROL IN GEORGIA" FOR THE VARIOUS PRECIPITATION EVENTS AND ANY OTHER SUCH CONSIDERATIONS NECESSARY TO SHOW THAT THE INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED SAMPLED RECEIVING WATER WILL BE REPRESENTATIVE OF THE INCREASES IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UN-SAMPLED RECEIVING WATERS.

(3). FOR INFRASTRUCTURE CONSTRUCTION PROJECTS, WHEN THE PERMITTEE DETERMINES THAT SOME RECEIVING WATER(S) WILL NOT BE SAMPLED DUE TO REPRESENTATIVE SAMPLING, THE DESIGN PROFESSIONAL MAKING THIS DETERMINATION AND PREPARING THE PLAN MUST INCLUDE AND SIGN THE FOLLOWING CERTIFICATION IN THE PLAN:

"I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR THE MONITORING OF: (a) ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES SHOWN ON THE USGS TOPOGRAPHIC MAP AND ALL OTHER FIELD VERIFIED PERENNIAL AND INTERMITTENT STEAMS AND OTHER WATER BODIES, OR (b) WHERE ANY SUCH SPECIFIC IDENTIFIED PERENNIAL OR INTERMITTENT STREAM AND OTHER WATER BODY IS NOT PROPOSED TO BE SAMPLED, I HAVE DETERMINED IN MY PROFESSIONAL JUDGMENT, UTILIZING THE FACTORS REQUIRED IN THE GENERAL NPDES PERMIT NO. GAR100002, THAT THE INCREASE IN THE TURBIDITY OF EACH SPECIFIC IDENTIFIED SAMPLED RECEIVING WATER WILL BE REPRESENTATIVE OF THE INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UN-SAMPLED RECEIVING WATER."

(4). FOR INFRASTRUCTURE CONSTRUCTION PROJECTS, IF AT ANY TIME DURING THE LIFE OF THE PROJECT A SELECTED RECEIVING WATER NO LONGER REPRESENTS ANOTHER RECEIVING WATER, THEN THE PERMITTEE SHALL SAMPLE THE LATTER RECEIVING WATER UNTIL SELECTION OF AN ALTERNATIVE REPRESENTATIVE RECEIVING WATER.

(5). FOR INFRASTRUCTURE CONSTRUCTION PROJECTS, IF AT ANY TIME DURING THE LIFE OF THE PROJECT A RECEIVING WATER IS DETERMINED NOT TO BE REPRESENTED AS CERTIFIED IN THE PLAN, THE PERMITTEE SHALL SAMPLE THAT RECEIVING WATER UNTIL A NOTICE OF TERMINATION IS SUBMITTED OR UNTIL THE APPLICABLE PHASE IS STABILIZED IN ACCORDANCE WITH THIS PERMIT.

(6). FOR INFRASTRUCTURE CONSTRUCTION PROJECTS, MONITORING OBLIGATIONS SHALL CEASE FOR ANY PHASE OF THE PROJECT THAT HAS BEEN STABILIZED IN ACCORDANCE WITH PART IV.D.6.C.(1).(G).

31 d. SAMPLING FREQUENCY.

(1). THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORMWATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.

(2). HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORMWATER DISCHARGE.

(3). SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS:

(a). FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION;

(b). IN ADDITION TO (a) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOT, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION, WHICHEVER COMES FIRST;

(c). AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS* UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED;

(d). WHERE SAMPLING PURSUANT TO (A), (B) OR (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.A.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (a), (b) OR (c) ABOVE; AND

(e). EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (a) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (b). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (b) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (c) ABOVE.

*NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (a) AND (b) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY OR WEEK.

7. NON-STORMWATER DISCHARGES. EXCEPT FOR FLOWS FROM FIRE FIGHTING ACTIVITIES,SOURCES OF NON-STORMWATER LISTED IN PART III.A.2. OF THIS PERMIT THAT ARE COMBINED WITH STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY MUST BE IDENTIFIED IN THE PLAN. THE PLAN SHALL IDENTIFY AND ENSURE THE IMPLEMENTATION OF APPROPRIATE POLLUTION PREVENTION MEASURES FOR THE NON-STORMWATER COMPONENT(S) OF THE DISCHARGE.

31 E. REPORTING.

1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORMWATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD USING THE ELECTRONIC SUBMITTAL SERVICE PROVIDED BY EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

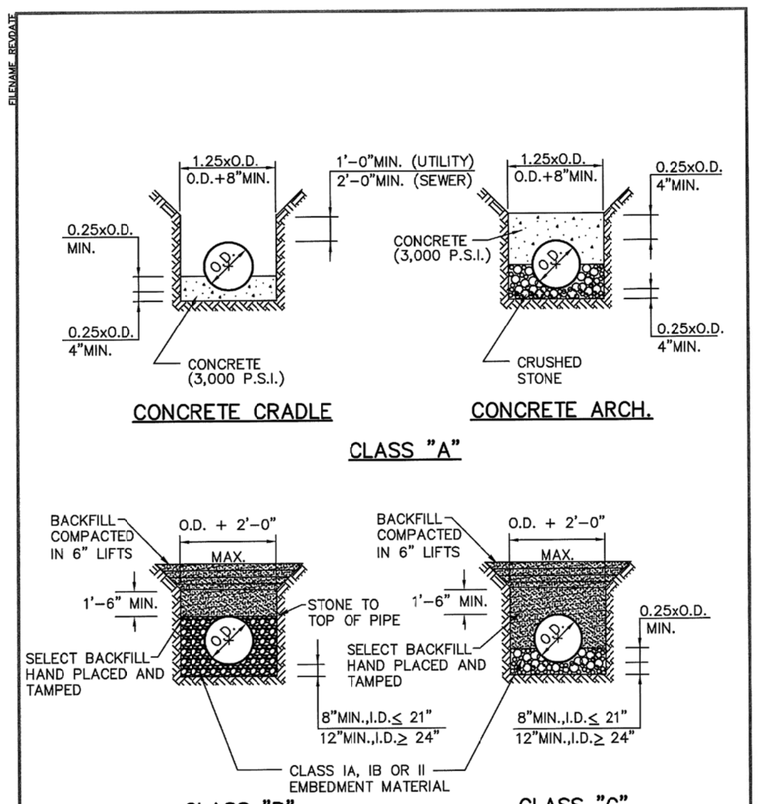
2. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:

a. THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;
b. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
c. THE DATE(S) ANALYSES WERE PERFORMED;
d. THE TIME(S) ANALYSES WERE INITIATED;
e. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;
f. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED;
g. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS;
h. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU" AND
i. CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.

3. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

32 F. RETENTION OF RECORDS

1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHAL

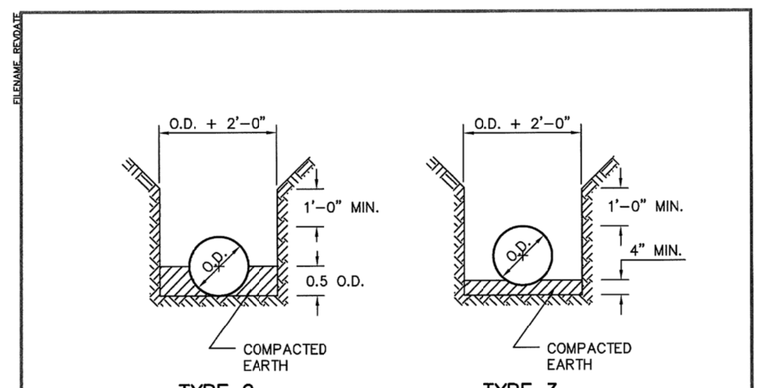


PIPE BEDDING AND HAUNCHING
GRAVITY SEWER

N.T.S.

REVISED JUNE 2009

LOWNDES COUNTY, GEORGIA	DATE : JULY 1996	
	SCALE : N.T.S.	
STANDARD DETAILS WATER AND WASTEWATER	JOB NO.: 1215-015-01	
	SHT. LC-8	

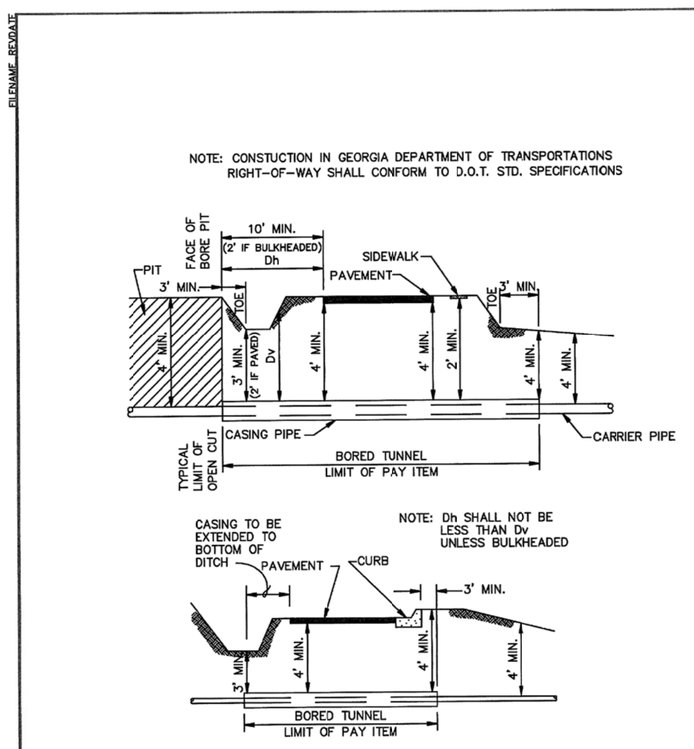


PIPE BEDDING AND HAUNCHING
FORCE MAIN

N.T.S.

REVISED JUNE 2009

LOWNDES COUNTY, GEORGIA	DATE : JULY 1996	
	SCALE : N.T.S.	
STANDARD DETAILS WATER AND WASTEWATER	JOB NO.: 1215-015-01	
	SHT. LC-9	

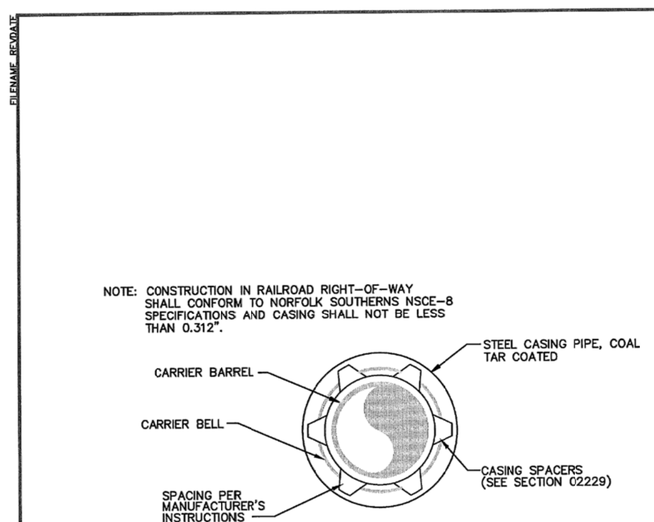


HIGHWAY UTILITY CROSSING DETAIL

N.T.S.

REVISED JANUARY 2003

LOWNDES COUNTY, GEORGIA	DATE : JULY 1996	
	SCALE : N.T.S.	
STANDARD DETAILS WATER AND WASTEWATER	JOB NO.: 1215-015-01	
	SHT. LC-19	



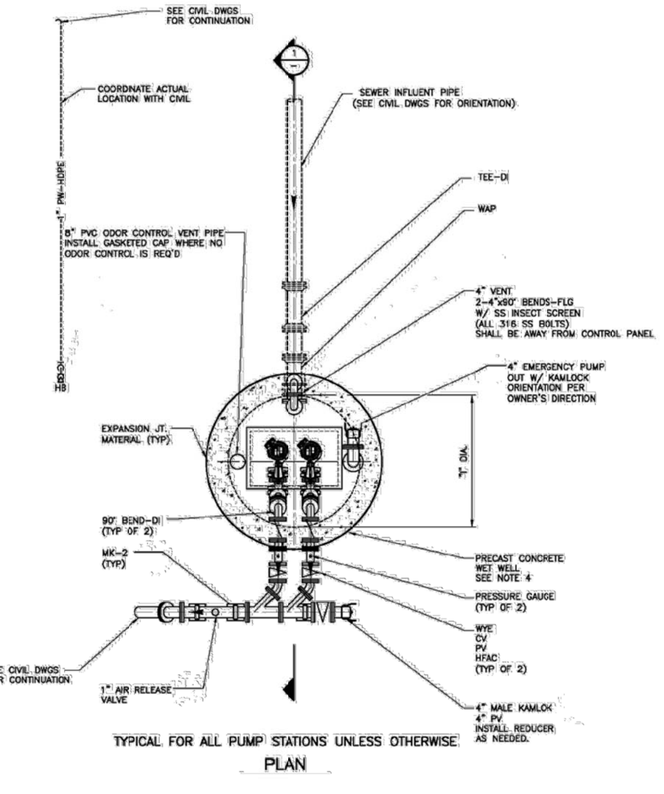
CASING SPACERS

N.T.S.

REVISED JANUARY 2003

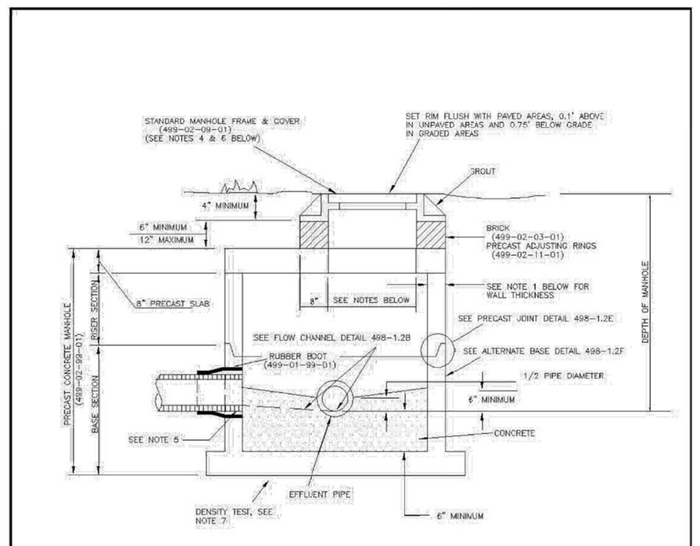
LOWNDES COUNTY, GEORGIA	DATE : JULY 1996	
	SCALE : N.T.S.	
STANDARD DETAILS WATER AND WASTEWATER	JOB NO.: 1215-015-01	
	SHT. LC-21	

City of Valdosta Lift station details



TYPICAL FOR ALL PUMP STATIONS UNLESS OTHERWISE

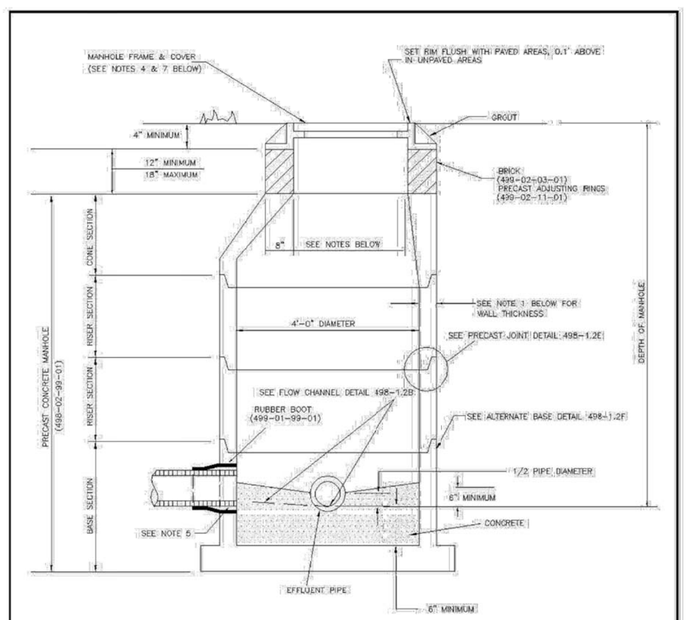
PLAN



NOTES

1. MINIMUM WALL THICKNESS SHALL BE FIVE INCHES (5") OR 1/12 THE INSIDE DIAMETER, WHICHEVER IS GREATER.
2. ALL MANHOLES TO BE MAINTAINED BY THE CITY SHALL BE LINED. THE LINING SHALL BE HOPE (499-02-99-06).
   THE EXTERIOR AREAS SHALL BE COATED WITH TWO (2) COATS OF BITUMASTIC SEALER.
3. MANHOLES SHALL BE FURNISHED WITH FACTORY INSTALLED BOOTS (499-01-99-01) TO CONNECT SEWER PIPES TO MANHOLES.
4. MANHOLE TO BE INSTALLED WITH A STANDARD 24" RING AND COVER UNLESS OTHERWISE SPECIFIED.
5. FILL ANNULAR VOID BETWEEN PIPE AND RUBBER BOOT WITH GROUT AND FLUSH WITH MANHOLE WALLS.
6. MANHOLE COVER IN PAVED ROADWAY SHALL BE STANDARD UNLESS OTHERWISE SPECIFIED (499-02-09-01).
7. EACH MANHOLE INSTALLED SHALL HAVE ONE COMPACTION DENSITY TEST PER 491.4.1.1 IN SPECIFICATIONS, 100% STANDARD PROCTOR.

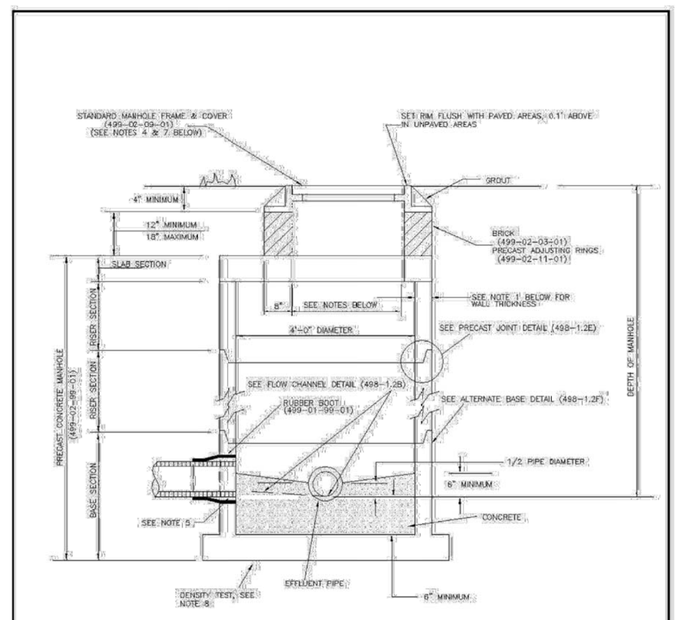
SPECIFICATION		DATE REVISED:	SECTION
CITY OF VALDOSTA	CITY OF VALDOSTA STANDARD DETAIL	PRECAST CONCRETE MANHOLE LESS THAN 5' DEPTH	A 498-1.1



NOTES

1. MINIMUM WALL THICKNESS SHALL BE FIVE INCHES (5") OR 1/12 THE INSIDE DIAMETER, WHICHEVER IS GREATER.
2. ALL MANHOLES THAT WILL BE MAINTAINED BY THE CITY OF VALDOSTA SHALL BE LINED.
   MANHOLE LINING SHALL BE HOPE (499-02-99-06).
   THE EXTERIOR AREAS SHALL BE COATED WITH TWO (2) COATS OF BITUMASTIC SEALER.
3. MANHOLES SHALL BE FURNISHED WITH FACTORY INSTALLED BOOTS (499-01-99-01) TO CONNECT SEWER PIPES TO MANHOLES.
4. MANHOLE TO BE INSTALLED WITH 24" STANDARD RING AND COVER UNLESS OTHERWISE SPECIFIED.
5. FILL ANNULAR VOID BETWEEN PIPE AND RUBBER BOOT WITH GROUT AND FLUSH WITH MANHOLE WALL.
6. LINEROCK WILL BE PLACED AROUND RING AND COVER TO BOTTOM OF ASPHALT.
7. MANHOLE COVERS IN PAVEMENT SHALL BE STANDARD OR HINGED (499-02-09-03) WHERE SPECIFIED.
8. EACH MANHOLE INSTALLED SHALL HAVE ONE COMPACTION DENSITY TEST PER 491.4.1.1 IN SPECIFICATIONS 100% STANDARD PROCTOR.

SPECIFICATION		DATE REVISED:	SECTION
CITY OF VALDOSTA	CITY OF VALDOSTA STANDARD DETAIL	PRECAST CONCRETE MANHOLE 5' TO 12' DEPTH	B 498-1.1



NOTES

1. MINIMUM WALL THICKNESS SHALL BE FIVE INCHES (5") TO A DEPTH OF TEN FEET (10'). WALL THICKNESS SHALL BE INCREASED TO EIGHT INCHES (8") AT TEN FEET BELOW GRADE.
2. THE EXTERIOR AREAS SHALL BE COATED WITH TWO (2) COATS OF BITUMASTIC SEALER.
   ALL MANHOLES MAINTAINED BY THE CITY OF VALDOSTA SHALL BE LINED.
   LINING SHALL BE HOPE (499-02-99-06).
3. MANHOLES SHALL BE FURNISHED WITH FACTORY INSTALLED BOOTS (499-01-99-01) TO CONNECT SEWER PIPES TO MANHOLES.
4. MANHOLE TO BE INSTALLED WITH 23" DIA. 36" STANDARD RING AND COVER UNLESS OTHERWISE SPECIFIED.
5. FILL ANNULAR SPACE BETWEEN PIPE AND BOOT WITH GROUT AND FLUSH WITH WALL OF MANHOLE.
6. LINEROCK WILL BE PLACED AROUND RING AND COVER TO BOTTOM OF ASPHALT.
7. MANHOLE COVERS IN PAVED ROADWAYS SHALL BE STANDARD (499-02-09-01).
8. EACH MANHOLE INSTALLED SHALL HAVE ONE COMPACTION DENSITY TEST PER 491.4.1.1 IN SPECIFICATIONS 100% STANDARD PROCTOR.

SPECIFICATION		DATE REVISED:	SECTION
CITY OF VALDOSTA	CITY OF VALDOSTA STANDARD DETAIL	PRECAST CONCRETE MANHOLE OVER 12' DEPTH	C 498-1.1

AXIS ENGINEERING CONSULTANTS
LEESBURG★VALDOSTA★WARNER ROBINS

GEORGIA
AXIS ENGINEERING CONSULTANTS
PEF009117
06/30/2026
CERTIFICATE OF AUTHORIZATION

GEORGIA
REGISTERED
No. PE029441
PROFESSIONAL
10/1/2025
ENGINEER
B. MATTHEW INMAN

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION
B. Matthew Inman
LEVEL II CERTIFIED DESIGN PROFESSIONAL
CERTIFICATION NUMBER: 0C000000885
ISSUED 06/01/2022 EXPIRES: 06/01/2025

AEC PROJECT NUMBER		
25-25058		
DATE OF PLANS		
8/5/2025		
REVISIONS		
NO.	DATE	DESCRIPTION
1	10/1/2025	REV. PER CITY COMMENTS
2	·	·
3	·	·
4	·	·
5	·	·
6	·	·
7	·	·
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9	·	·
10	·	·

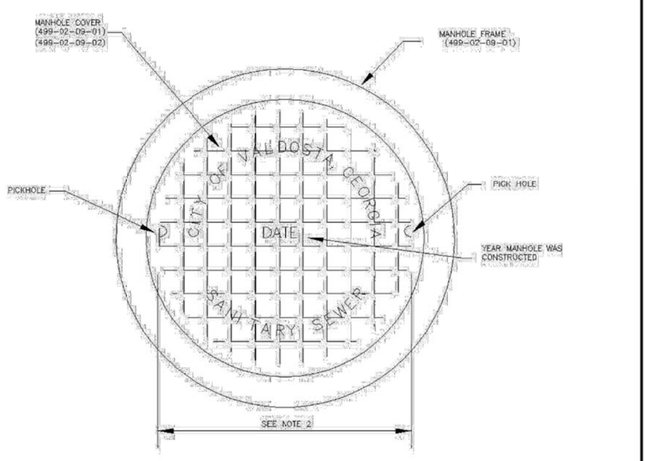
KAR LIFT STATION
CITY OF VALDOSTA

CONSTRUCTION DETAILS

VALDOSTA, LOWNDES COUNTY, GEORGIA

NOT TO SCALE

SHEET
C6.0 OF 40

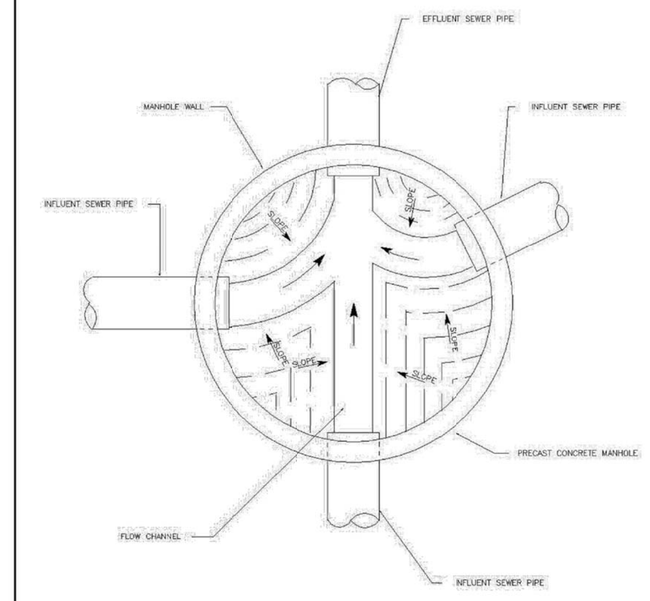


NOTES

1. MANHOLE COVER SHALL BE LETTERED WITH THE WORDS "CITY OF VALDOSTA, GEORGIA" ACROSS THE TOP; "SANITARY SEWER" ACROSS THE BOTTOM AND THE YEAR OF THE MANUFACTURE IN CENTER.
2. UNLESS OTHERWISE SPECIFIED MANHOLE COVERS SHALL BE 2'-0" DIAMETER, AND DOUBLE COVERS DEPENDING ON DEPTH, 32" DIAMETER.

SPECIFICATION		DATE REVISED:	SECTION
			SHT. 1 OF 2

CITY OF VALDOSTA	CITY OF VALDOSTA STANDARD DETAIL	SANITARY SEWER MANHOLE COVER	A	498-1.2

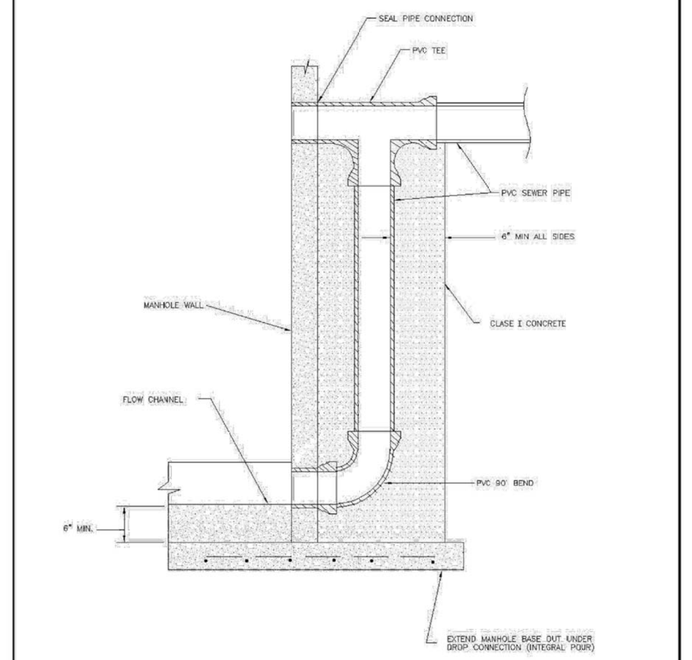


NOTES

1. FLOW CHANNELS IN MANHOLE BOTTOM SHALL HAVE SAME RADIUS AS EFFLUENT SEWER LINES.
2. FLOW CHANNELS SHALL BE FORMED OF CLASS I CONCRETE. ALL INVERTS SHALL FOLLOW THE GRADES OF THE PIPE ENTERING THE MANHOLE. BRICKS OR OTHER FILL MATERIALS SHALL NOT BE USED WHEN FORMING FLOW CHANNELS.
3. THAT PORTION OF THE FLOW CHANNEL ABOVE THE SLOPED SIDES SHALL BE FREE OF COVERING TO THE LIMITS SHOWN ABOVE.

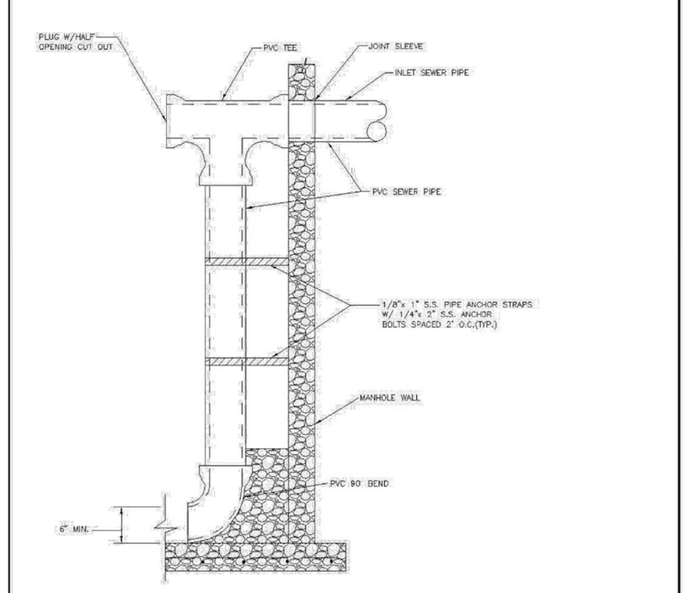
SPECIFICATION		DATE REVISED:	SECTION
			SHT. 1 OF 1

CITY OF VALDOSTA	CITY OF VALDOSTA STANDARD DETAIL	SANITARY SEWER MANHOLE FLOW CHANNEL	B	498-1.2



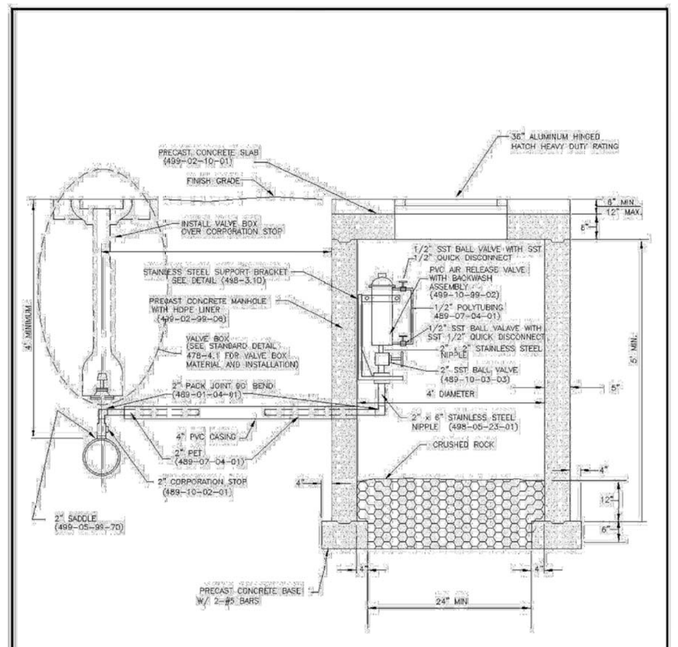
SPECIFICATION		DATE REVISED:	SECTION
			SHT. 1 OF 1

CITY OF VALDOSTA	CITY OF VALDOSTA STANDARD DETAIL	SANITARY SEWER MANHOLE DROP CONNECTION	C	498-1.2



SPECIFICATION		DATE REVISED:	SECTION
			SHT. 1 OF 1

CITY OF VALDOSTA	CITY OF VALDOSTA STANDARD DETAIL	SANITARY SEWER MANHOLE INSIDE DROP CONNECTION	C2	498-1.2

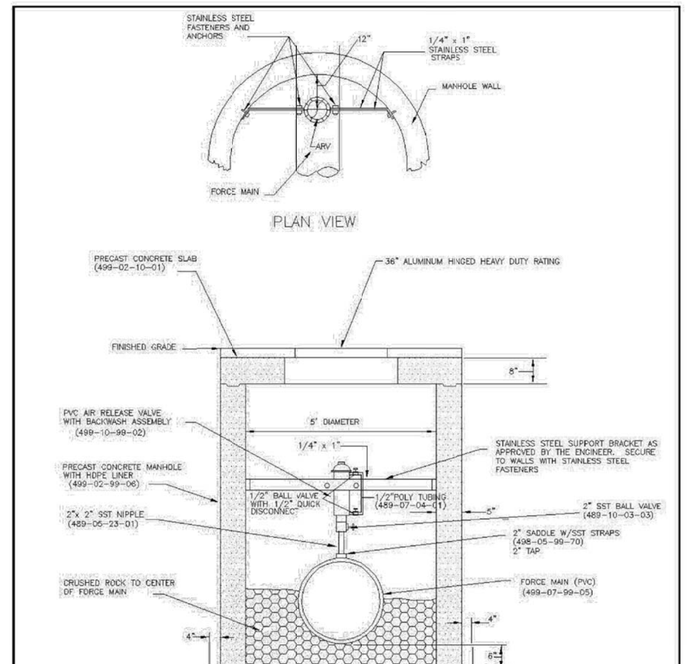


NOTES

1. MANHOLE WALLS SHALL BE LINED AS SPECIFIED IN SECTION 496-1.11.
2. USE STAINLESS STEEL FASTENERS TO SECURE ARV AND APPURTENANCES.
3. COAT INSIDE OF MANHOLE, RIM AND COVER WITH EPOXY CEMENT AS SPECIFIED.

SPECIFICATION		DATE REVISED:	SECTION
			SHT. 1 OF 1

CITY OF VALDOSTA	CITY OF VALDOSTA STANDARD DETAIL	AIR RELEASE VALVE ASSEMBLY DISCHARGE TO NEW MANHOLE	A	498-3.1



NOTES

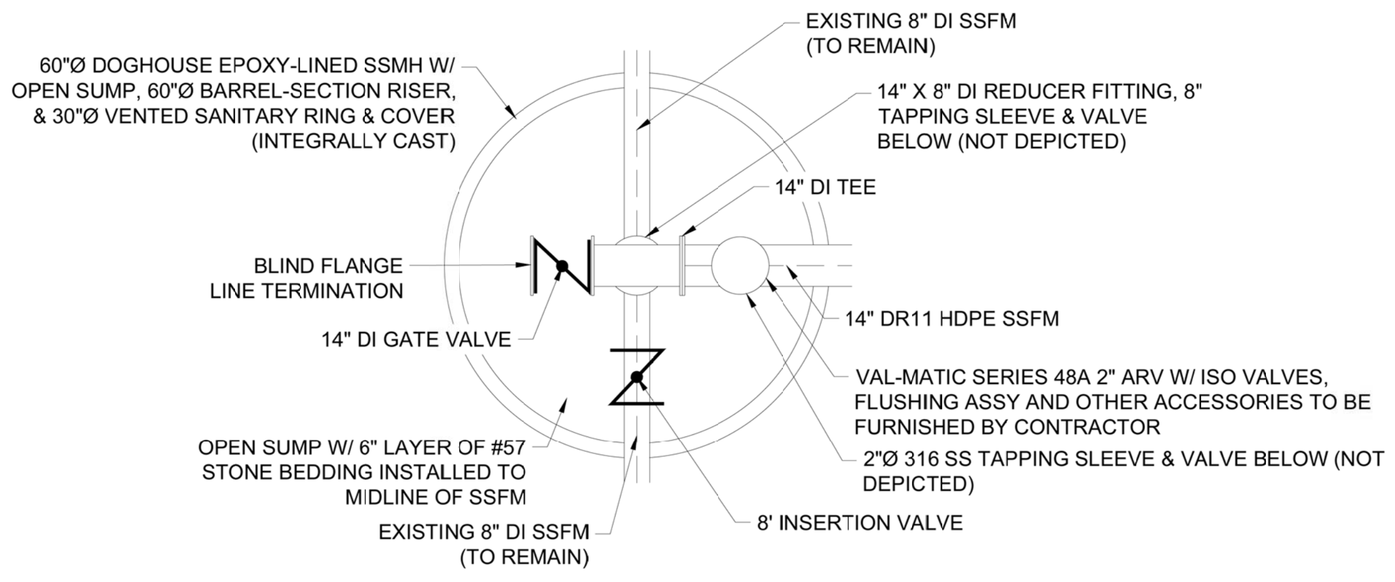
1. MANHOLE WALLS SHALL BE LINED AS SPECIFIED IN SECION 498-1.11.
2. USE STAINLESS STEEL FASTENERS TO SECURE ARV AND APPURTENANCES.
3. FOR DIP FORCE MAINS COAT OUTSIDE EXPOSED AREA OF FORCE MAIN WITH EPOXY COATING (499-11-31-02).
4. UD TO READ SANITARY SEWER FORCE MAIN AIR RELEASE VALVE.

SPECIFICATION		DATE REVISED:	SECTION
			SHT. 1 OF 1

CITY OF VALDOSTA	CITY OF VALDOSTA STANDARD DETAIL	AIR RELEASE VALVE ASSEMBLY OVER FORCE MAIN	B	498-3.1

NOTES:

- CONTRACTOR MAY INVERT THE ASSEMBLY AS SHOWN BY LOCATING THE 14" HDPE SSFM BELOW THE EXISTING 8" DI SSFM. IF THIS METHOD OF CONSTRUCTION IS USED, CONCRETE SUPPORT COLUMNS W/ 316 STAINLESS STEEL STRAPPING SHOULD BE CAST BELOW ANY 8" DI BELL JOINTS PRESENT WITHIN THE WORK AREA..
- ALL DI PIPING SHOULD BE LINED AND COATED IN ACCORDANCE W/ COV STANDARDS AND SPECIFICATIONS
- ALL CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM W/ COV STANDARDS AND SPECIFICATIONS



SANITARY SEWER FORCEMAIN INTERCONNECTION DETAIL

N.T.S.

AXIS ENGINEERING CONSULTANTS
LEESBURG★VALDOSTA★WARNER ROBINS

GEORGIA
AXIS ENGINEERING CONSULTANTS
PEF009117
06/30/2026
CERTIFICATE OF AUTHORIZATION

GEORGIA
REGISTERED
No. PE039411
PROFESSIONAL
10/1/2025
ENGINEER
B. MATTHEW INMAN

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION
B. Matthew Inman
Level II Certified Design Professional
Certification Number: 0C000000885
Issued 06/01/2022 Expires: 06/01/2025

AEC PROJECT NUMBER
25-25058

DATE OF PLANS
8/5/2025

REVISIONS

NO.	DATE	DESCRIPTION
1	10/1/2025	REV. PER CITY COMMENTS
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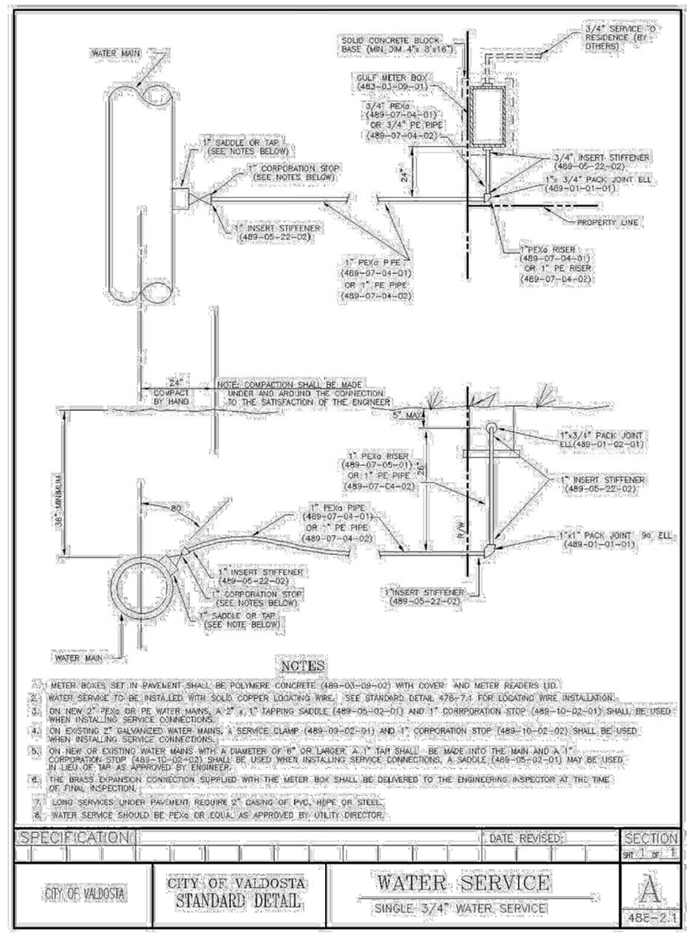
KAR LIFT STATION
CITY OF VALDOSTA

CONSTRUCTION DETAILS

VALDOSTA, LOWNDES COUNTY, GEORGIA

NOT TO SCALE

SHEET
C6.1 OF 40

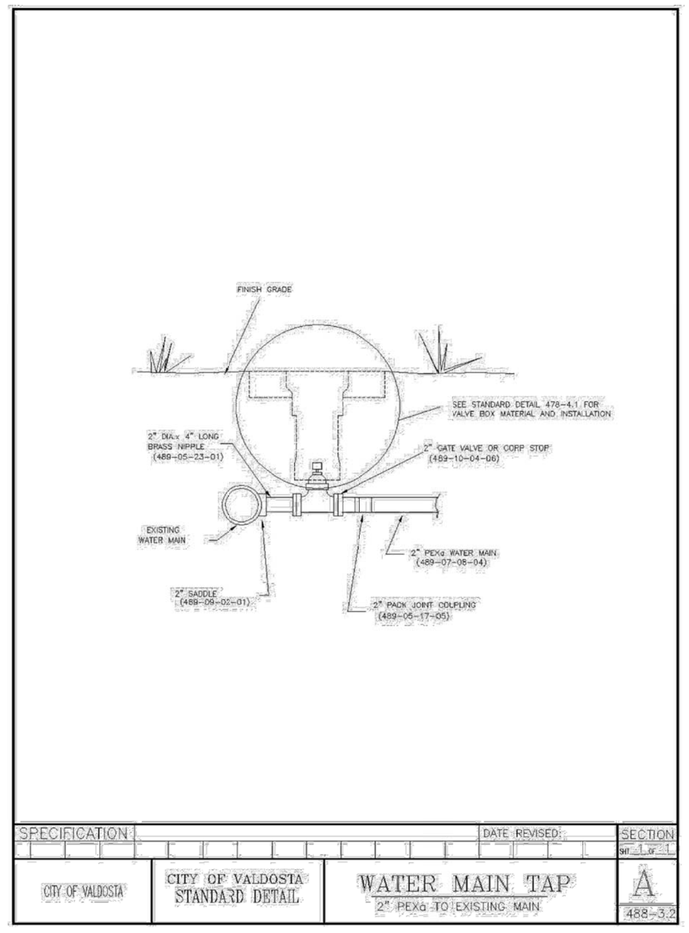


NOTES

1. METER BOXES SET IN PAVEMENT SHALL BE POLYMER CONCRETE (489-03-09-02) WITH COVER AND METER READERS LID.
2. WATER SERVICE TO BE INSTALLED WITH SOLID COPPER LOOPING RING, SEE STANDARD DETAIL #716-7.1 FOR LOCATING RING INSTALLATION.
3. ON NEW OR PEX@ OR PE WATER MAINS, A 3/4" x 1" TAPPING SADDLE (489-05-02-01) AND 1" CORPORATION STOP (480-10-02-01) SHALL BE USED WHEN INSTALLING SERVICE CONNECTIONS.
4. ON EXISTING 2" GALVANIZED WATER MAINS, A SERVICE CLAMP (489-09-02-01) AND 1" CORPORATION STOP (489-10-02-02) SHALL BE USED WHEN INSTALLING SERVICE CONNECTIONS.
5. ON NEW OR EXISTING WATER MAINS WITH A DIAMETER OF 6" OR LARGER A 1" TAP SHALL BE MADE INTO THE MAIN AND A 1" CORPORATION STOP (480-10-02-02) SHALL BE USED WHEN INSTALLING SERVICE CONNECTIONS. A SADDLE (489-05-02-01) MAY BE USED IN LIEU OF TAP AS APPROVED BY ENGINEER.
6. THE BRASS EXPANSION CONNECTION SUPPLIED WITH THE METER BOX SHALL BE DISCARDED TO THE ENGINEERING INSPECTOR AT THE TIME OF FINAL INSPECTION.
7. LONG SERVICES UNDER PAVEMENT, FLOWRITE, 2" CASING OF PVC, HDPE, OR STEEL.
8. WATER SERVICE SHOULD BE PEX@ OR EQUAL, AS APPROVED BY UTILITY DIRECTOR.

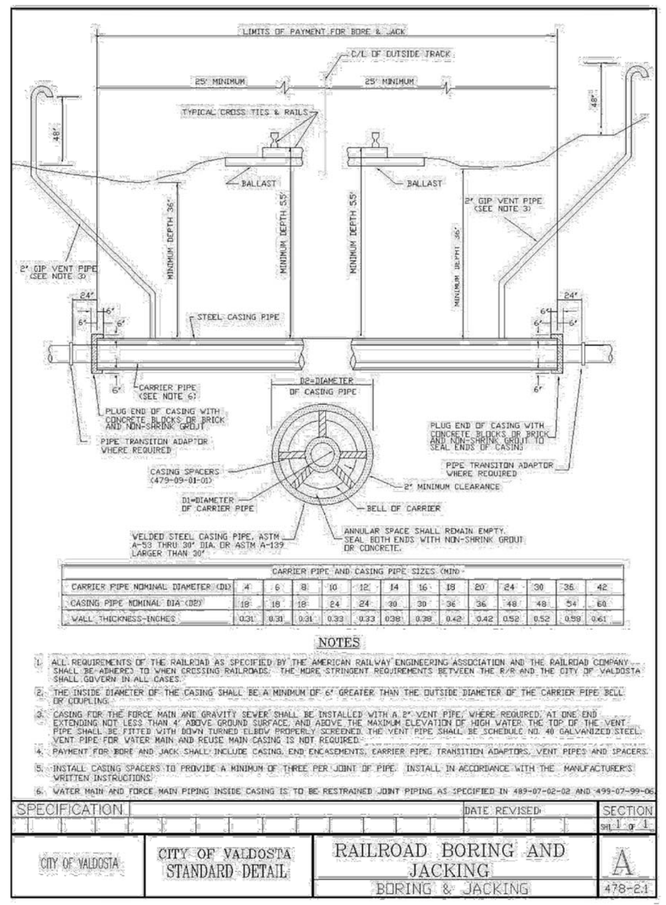
SPECIFICATION		DATE REVISED:	SECTION
			NO. 1 OF 1

CITY OF VALDOSTA	CITY OF VALDOSTA STANDARD DETAIL	WATER SERVICE SINGLE 3/4" WATER SERVICE	A 488-2.1



SPECIFICATION		DATE REVISED:	SECTION
			NO. 1 OF 1

CITY OF VALDOSTA	CITY OF VALDOSTA STANDARD DETAIL	WATER MAIN TAP 2" PEX@ TO EXISTING MAIN	A 488-3.2



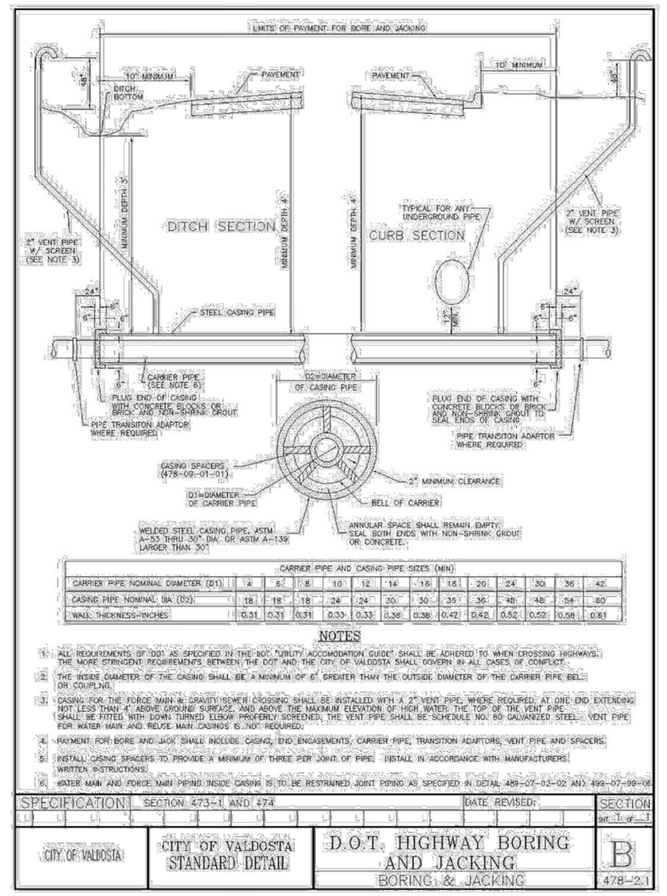
CARRIER PIPE NOMINAL DIAMETER (DI)	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"	42"
CASING PIPE NOMINAL DIA (DS)	10"	12"	16"	18"	20"	24"	30"	36"	36"	48"	48"	54"	66"
WALL THICKNESS-INCHES	0.25	0.28	0.28	0.312	0.33	0.375	0.375	0.438	0.438	0.438	0.562	0.562	0.625

NOTES

1. ALL REQUIREMENTS OF THE RAILROAD AS SPECIFIED BY THE AMERICAN RAILWAY ENGINEERING ASSOCIATION AND THE RAILROAD COMPANY SHALL BE ADHERED TO WHEN CROSSING RAILROADS. THE MORE STRINGENT REQUIREMENTS BETWEEN THE R/R AND THE CITY OF VALDOSTA SHALL GOVERN IN ALL CASES.
2. THE INSIDE DIAMETER OF THE CASING SHALL BE A MINIMUM OF 4" GREATER THAN THE OUTSIDE DIAMETER OF THE CARRIER PIPE BELL OR COUPLING.
3. CASING FOR THE FORCE MAIN AT GRAVITY SEWER SHALL BE INSTALLED WITH A 2" VENT PIPE, WHERE REQUIRED, AT ONE END EXTENDING NOT LESS THAN 4' ABOVE GROUND SURFACE, AND ABOVE THE MAXIMUM ELEVATION OF HIGH WATER. THE TOP OF THE VENT PIPE SHALL BE FITTED WITH BOWN TURNED ELBOW PROPERLY SCREENED. THE VENT PIPE SHALL BE SCHEDULE NO. 40 GALVANIZED STEEL.
4. PAYMENT FOR BORE AND JACK SHALL INCLUDE CASING, END ENCASEMENTS, CARRIER PIPE, TRANSITION ADAPTORS, VENT PIPE AND SPACERS.
5. INSTALL CASING SPACERS TO PROVIDE A MINIMUM OF THREE PER JOINT OF PIPE. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
6. WATER MAIN AND FORCE MAIN PIPING INSIDE CASING IS TO BE RESTRAINED JOINT PIPING AS SPECIFIED IN 489-07-02-02 AND 499-07-99-06

SPECIFICATION		DATE REVISED:	SECTION
			NO. 1 OF 1

CITY OF VALDOSTA	CITY OF VALDOSTA STANDARD DETAIL	RAILROAD BORING AND JACKING BORING & JACKING	A 478-2.1



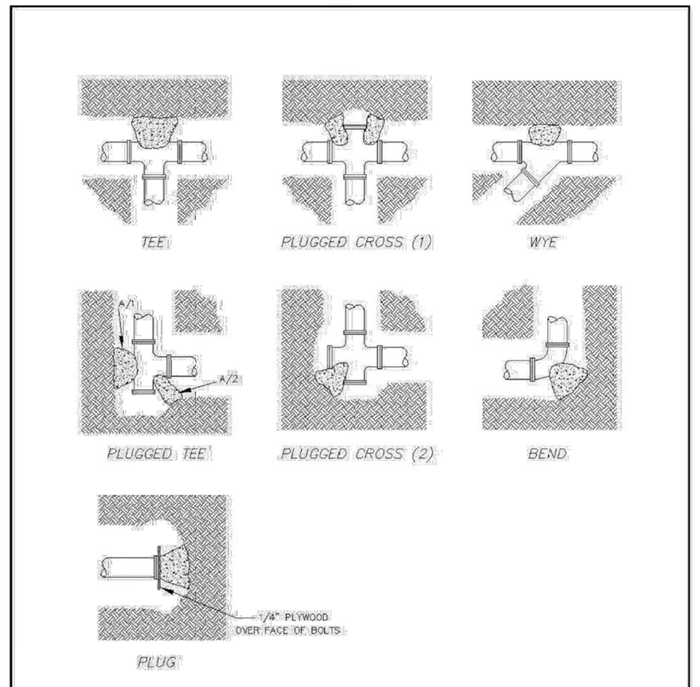
CARRIER PIPE NOMINAL DIAMETER (DI)	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"	42"
CASING PIPE NOMINAL DIA (DS)	10"	12"	16"	18"	20"	24"	30"	36"	36"	48"	48"	54"	66"
WALL THICKNESS-INCHES	0.31	0.31	0.31	0.33	0.33	0.36	0.36	0.42	0.42	0.52	0.52	0.56	0.61

NOTES

1. ALL REQUIREMENTS OF DOT AS SPECIFIED IN THE DOT "UTILITY ACCOMODATION GUIDE" SHALL BE ADHERED TO WHEN CROSSING HIGHWAYS. THE MORE STRINGENT REQUIREMENTS, BETWEEN THE DOT AND THE CITY OF VALDOSTA SHALL GOVERN IN ALL CASES OF CONFLICT.
2. THE INSIDE DIAMETER OF THE CASING SHALL BE A MINIMUM OF 4" GREATER THAN THE OUTSIDE DIAMETER OF THE CARRIER PIPE BELL OR COUPLING.
3. CASING FOR THE FORCE MAIN AT GRAVITY SEWER CROSSING SHALL BE INSTALLED WITH A 2" VENT PIPE, WHERE REQUIRED, AT ONE END EXTENDING NOT LESS THAN 4' ABOVE GROUND SURFACE, AND ABOVE THE MAXIMUM ELEVATION OF HIGH WATER. THE TOP OF THE VENT PIPE SHALL BE FITTED WITH DOWN TURNED ELBOW PROPERLY SCREENED. THE VENT PIPE SHALL BE SCHEDULE NO. 80 GALVANIZED STEEL. VENT PIPE FOR WATER MAIN AND REUSE MAIN CASINGS IS NOT REQUIRED.
4. PAYMENT FOR BORE AND JACK SHALL INCLUDE CASING, END ENCASEMENTS, CARRIER PIPE, TRANSITION ADAPTORS, VENT PIPE AND SPACERS.
5. INSTALL CASING SPACERS TO PROVIDE A MINIMUM OF THREE PER JOINT OF PIPE. INSTALL IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS.
6. WATER MAIN AND FORCE MAIN PIPING INSIDE CASING IS TO BE RESTRAINED JOINT PIPING AS SPECIFIED IN SECTIONS 489-07-02-02 AND 499-07-99-06

SPECIFICATION	SECTION 473-E AND 474	DATE REVISED:	SECTION
			NO. 1 OF 1

CITY OF VALDOSTA	CITY OF VALDOSTA STANDARD DETAIL	D.O.T. HIGHWAY BORING AND JACKING BORING & JACKING	B 478-2.1



NOTES

1. BEARING AREA OF THRUST BLOCK SHALL NOT BE LESS THAN 1.0 SQ. FT. BEARING AREA SHALL HAVE EQUAL HEIGHT AND WIDTH.
2. ALLOWABLE SOIL BEARING STRESS IS 2000 LBS./SQ. FT.
3. BEARING AREAS, VOLUMES, AND SPECIAL BLOCKING DETAILS SHOWN ON PLANS TAKE PRECEDENCE OVER THIS STANDARD.
   THRUST BLOCKS FOR VERTICAL BENDS (HAVING DOWNWARD RESULTANT THRUSTS) SHALL BE THE SAME AS FOR HORIZONTAL BENDS.
   BEARING AREAS FOR HORIZONTAL BEND THRUST BLOCKS ARE BASED ON TEST PRESSURE OF 150 PSIG AND AN ALLOWABLE SOIL BEARING STRESS OF 2000 LBS./SQ.-FT. TO COMPUTE BEARING AREAS FOR DIFFERENT TEST PRESSURES AND SOIL BEARING STRESSES, MULTIPLY TABLE VALUES BY THE FACTOR (P/150), WHERE: P= ACTUAL TEST PRESSURE, PSIG S= ACTUAL OR BEARING PRESSURE, PSF.

SPECIFICATION		DATE REVISED:	SECTION
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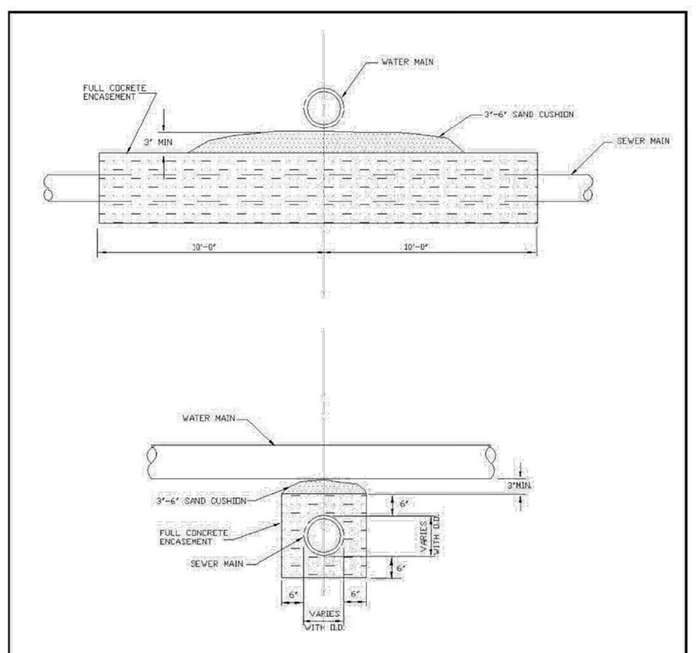
CITY OF VALDOSTA	CITY OF VALDOSTA STANDARD DETAIL	THRUST BLOCKS CAST IN PLACE	A 478-3.1

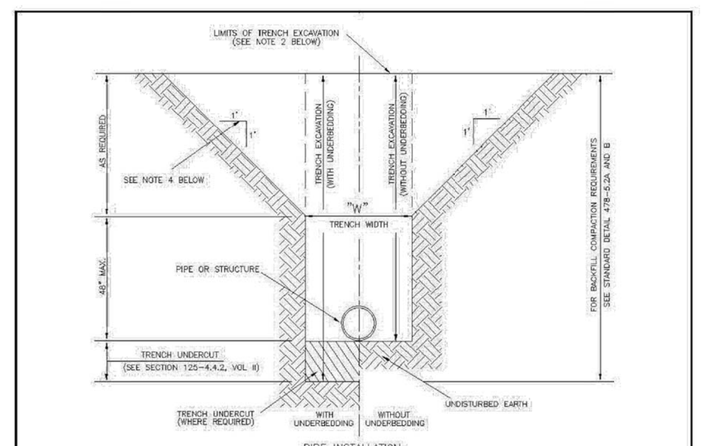


NOTES

1. USE CONCRETE ENCASEMENT WHERE VERTICAL CLEARANCE BETWEEN WATERMAIN AND SEWER IS 18" OR LESS.
2. WHEN CROSSING SEWER ONE FULL JOINT OF WATER MAIN SHALL BE CENTERED OVER THE SEWER MAIN.
3. CONCRETE FOR ENCASEMENT SHALL BE 3000 PSI.

SPECIFICATION		REVISED:	SECTION
			NO. 1 OF 1

CITY OF VALDOSTA	CITY OF VALDOSTA STANDARD DETAIL	CONCRETE ENCASEMENT CONCRETE ENCASEMENT	A 478-3.3



PIPE INSTALLATION

PIPE DIAMETER:	2"–7"	8"–16"	17" – 24"	OVER 24"
TRENCH WIDTH, "W"	36"	48"	54"	60"

STRUCTURE INSTALLATION

DEPTH OF TRENCH:	0' – 6'	6' – 12'	12' – 18'	OVER 18'
STRUCTURE WIDTH "SW"	VARIES	VARIES	VARIES	VARIES
TRENCH WIDTH "W"	SW + 36"	SW + 48"	SW + 54"	SW + 60"

NOTES

1. IN THE EVENT UNSTABLE OR UNSUITABLE BEDDING MATERIAL IS ENCOUNTERED AT OR BELOW THE LIMITS OF EXCAVATION NOTED ON THE DRAWINGS, SUCH MATERIAL SHALL BE REMOVED AND REPLACED WITH FILL APPROVED BY THE CITY ENGINEER.
2. UPPER LIMITS OF TRENCH EXCAVATION AND FOR CALCULATION OF UNSUITABLE MATERIAL REFERS TO ONE OF THE FOLLOWING CONDITIONS (REFER TO DETAIL 478-5.2)
   A. BOTTOM OF LIMEROCK BASE WHERE UNDER A PAVED ROADWAY EXCEPT WHERE A TWO FOOT UNDERCUT BELOW THE ROADWAY BASE IS REQUIRED. SEE "B" BELOW.
   B. BOTTOM OF TWO FOOT UNDERCUT BELOW THE ROADWAY SUBGRADE WHERE CALLED FOR IN THE CONTRACT DOCUMENTS.
   C. FINISH GRADE WHERE NOT UNDER A PAVED ROADWAY.
3. TRENCH WIDTH FOR CALCULATION OF UNSUITABLE MATERIAL IS THE TRENCH WIDTH, THE WIDTH "W" REQUIRED TO INSTALL THE PIPE, PLUS THE TWO TRIANGULAR AREAS BEGINNING FOUR FEET HIGHER THAN THE TRENCH BOTTOM, EXTENDING AWAY FROM THE TRENCH ON A ONE TO ONE SLOPE ON EITHER SIDE OF THE TRENCH TO THE UPPER LIMITS OF THE UNSUITABLE MATERIAL. UNSUITABLE MATERIAL TO BE REMOVED AS PART OF ROADWAY EXCAVATION WILL NOT BE INCLUDED IN THIS CALCULATION.
4. TYPICAL TRENCH SLOPES ARE 1:1 EXCEPT WHERE SOIL CONDITIONS WARRANT DEVIATIONS BUT SHALL BE SUBJECT TO THE DISCRETION OF THE CITY ENGINEER OR HIS REPRESENTATIVE. WHERE DEVIATION IS WARRANTED SLOPES ARE IN ACCORDANCE WITH OSHA REQUIREMENTS. FOR PURPOSES OF CALCULATING UNSUITABLE MATERIAL TRENCH SLOPES ARE ASSUMED TO BE 1:1 UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
5. IN DEEP CUTS TRENCH SHORING OR TRENCH BOX SHALL BE USED AS DIRECTED BY THE CITY ENGINEER.

SPECIFICATION		DATE REVISED:	SECTION
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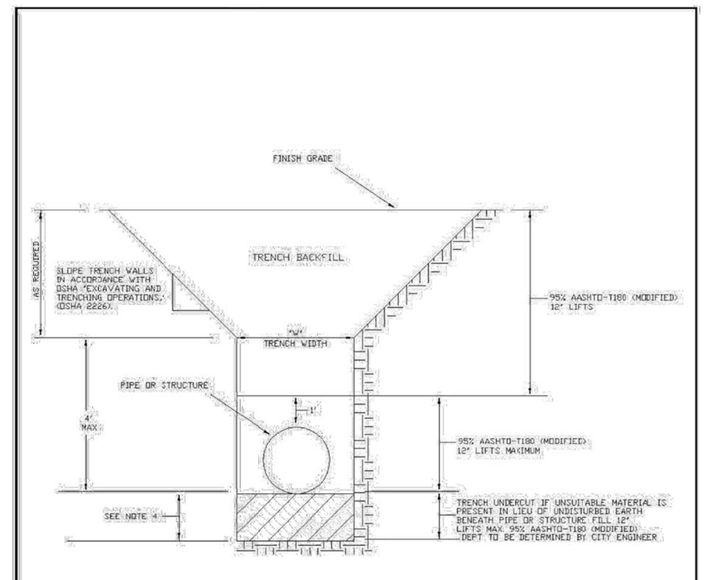
CITY OF VALDOSTA	CITY OF VALDOSTA STANDARD DETAIL	TRENCH EXCAVATION UNSUITABLE MATERIAL	A 478-5.1



NOTES

1. DENSITY TESTS TO BE TAKEN AT EACH 12" OF COMPACTED FILL, NOT MORE THAN 500 FEET APART, OR AS DIRECTED BY A GEOTECHNICAL ENGINEER.
2. IF THE CONTRACTOR HAS COMPACTION EQUIPMENT WITH WHICH THE REQUIRED DENSITY CAN BE OBTAINED IN THICKER LIFTS THAN PERMITTED ABOVE, AND UPON SATISFACTORY EVIDENCE THAT THE PROPOSED EQUIPMENT WILL PRODUCE WORK EQUAL IN QUALITY TO THAT PRODUCED BY THE SPECIFIED METHODS, THE ENGINEER MAY PERMIT PLACEMENT OF GRANULAR MATERIAL SIZE GROUPS A-1, A-2, OR A-3 IN LIFTS NOT EXCEEDING 18" IN THICKNESS. THE CONTRACTOR SHALL FURNISH ALL EQUIPMENT AND LABOR TO EXCAVATE AND BACKFILL TEST PITS TO BE DUG FOR THE PERFORMANCE OF DENSITY TESTS.
3. USE OF THICK LIFT COMPACTION PROCEDURES WILL NOT BE ALLOWED FOR THE FIRST STAGE BACKFILLING (BENEATH THE HAUNCHES) OF PIPE AND ON SIDES OF PIPE.
4. REFER TO PROJECT PLANS AND SPECIFICATIONS AND GDOT STANDARD SPECIFICATIONS FOR ROAD CONSTRUCTION. UNSUITABLE MATERIAL FOR UNDERCUTTING REQUIREMENTS.
5. REFER TO PROJECT PLANS AND SPECIFICATIONS ARE GDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE REPLACEMENT.

SPECIFICATION		DATE REVISED:	SECTION
			NO. 1 OF 1

CITY OF VALDOSTA	CITY OF VALDOSTA STANDARD DETAIL	TRENCH BACKFILL NOT WITHIN STREET RIGHTS OF WAY	A 478-5.2

AXIS ENGINEERING CONSULTANTS
LEESBURG • VALDOSTA • WARNER ROBINS

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GEORGIA REGISTERED No. PE020411 PROFESSIONAL 10/1/2025 ENGINEER B. MATTHEW INMAN

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KAR LIFT STATION
CITY OF VALDOSTA

CONSTRUCTION DETAILS

VALDOSTA, LOWNDES COUNTY, GEORGIA

NOT TO SCALE

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C6.2 OF 40

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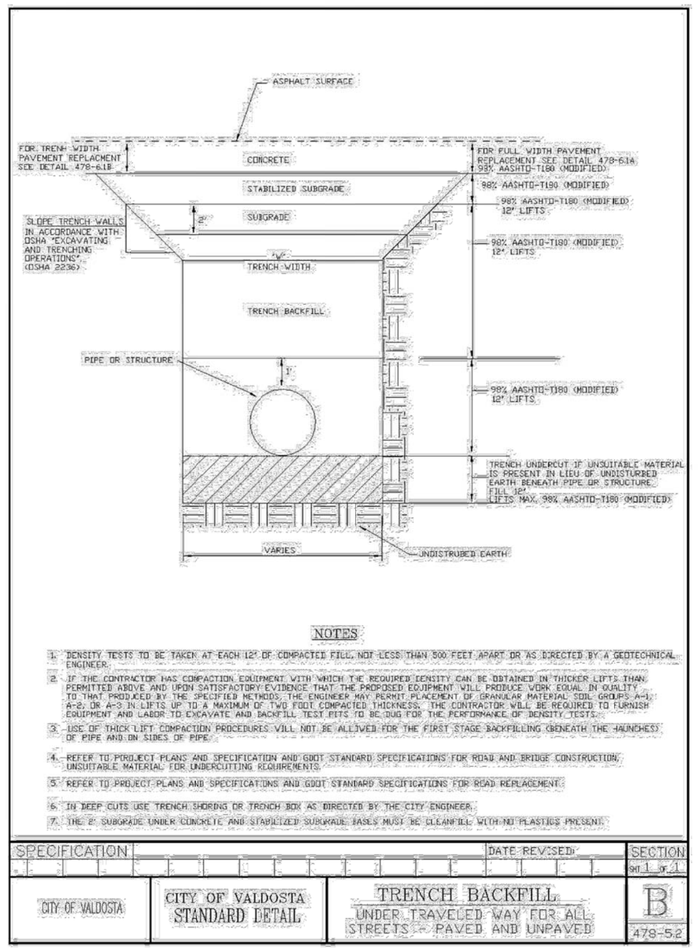
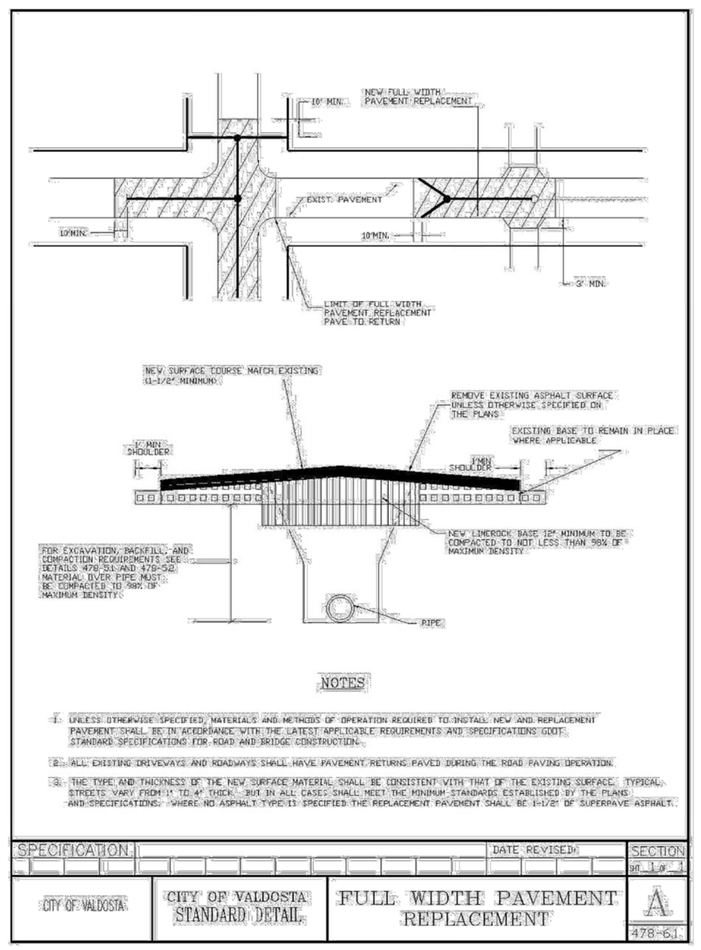


NOTES

1. DENSITY TESTS TO BE TAKEN AT EACH 12" OF COMPACTED FILL, NOT LESS THAN 500 FEET APART OR AS DIRECTED BY A GEOTECHNICAL ENGINEER.
2. IF THE CONTRACTOR HAS COMPACTION EQUIPMENT WITH WHICH THE REQUIRED DENSITY CAN BE OBTAINED IN THICKER LIFTS THAN PERMITTED ABOVE AND WITH SATISFACTORY EVIDENCE THAT THE PROPOSED EQUIPMENT WILL PRODUCE WORK EQUAL IN QUALITY TO THAT PRODUCED BY THE SPECIFIED METHODS, THE ENGINEER MAY PERMIT PLACEMENT OF GRANULAR MATERIAL (SOIL GROUPS A-1, A-2, OR A-3 IN LIFTS UP TO A MAXIMUM OF TWO FEET COMPACTED THICKNESS. THE CONTRACTOR WILL BE REQUIRED TO FURNISH EQUIPMENT AND LABOR TO EXCAVATE AND BACKFILL TEST PITS TO BE DUG FOR THE PERFORMANCE OF DENSITY TESTS.
3. USE OF THICK LIFT COMPACTION PROCEDURES WILL NOT BE ALLOWED FOR THE FIRST STAGE BACKFILLING BENEATH THE HAUNCHES OF PIPE AND ON SIDES OF PIPE.
4. REFER TO PROJECT PLANS AND SPECIFICATION AND GDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, UNSUITABLE MATERIAL FOR UNDERCUTTING ELEMENTARY.
5. REFER TO PROJECT PLANS AND SPECIFICATIONS AND GDOT STANDARD SPECIFICATIONS FOR ROAD REPLACEMENT.
6. IN DEEP CUTS USE TRENCH SHORING OR TRENCH BOX AS DIRECTED BY THE CITY ENGINEER.
7. THE 6" SUBGRADE UNDER CONCRETE AND STABILIZED SUBGRADE BASES MUST BE CLEANFILL WITH NO PLASTIC FINES.

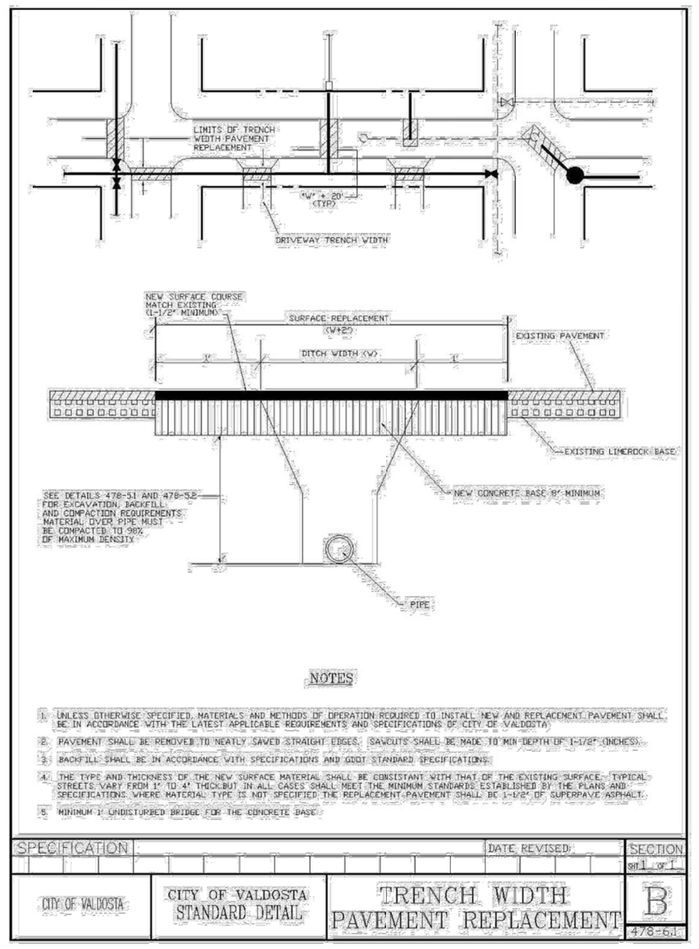
SPECIFICATION		DATE REVISED	SECTION
CITY OF VALDOSTA	CITY OF VALDOSTA STANDARD DETAIL	TRENCH BACKFILL UNDER TRAVELED WAY FOR ALL STREETS - PAVED AND UNPAVED	B 478-52



NOTES

1. UNLESS OTHERWISE SPECIFIED, MATERIALS AND METHODS OF OPERATION REQUIRED TO INSTALL NEW AND REPLACEMENT PAVEMENT SHALL BE IN ACCORDANCE WITH THE LATEST APPLICABLE REQUIREMENTS AND SPECIFICATIONS GDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. ALL EXISTING DRIVEWAYS AND ROADWAYS SHALL HAVE PAVEMENT RETURNS PAVED DURING THE ROAD PAVING OPERATION.
3. THE TYPE AND THICKNESS OF THE NEW SURFACE MATERIAL SHALL BE CONSISTENT WITH THAT OF THE EXISTING SURFACE. TYPICAL STREETS VARY FROM 1" TO 4" THROUGHOUT IN ALL CASES SHALL MEET THE MINIMUM STANDARDS ESTABLISHED BY THE PLANS AND SPECIFICATIONS. WHERE NO ASPHALT TYPE IS SPECIFIED THE REPLACEMENT PAVEMENT SHALL BE 1-1/2" OF SUPERPAVE ASPHALT.

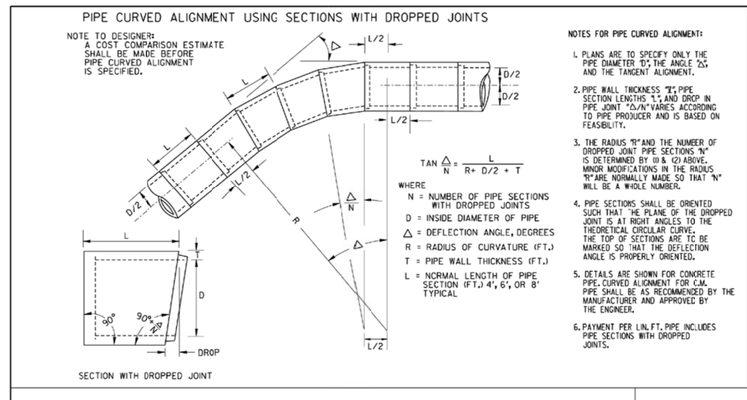
SPECIFICATION		DATE REVISED	SECTION
CITY OF VALDOSTA	CITY OF VALDOSTA STANDARD DETAIL	FULL WIDTH PAVEMENT REPLACEMENT	A 478-61



NOTES

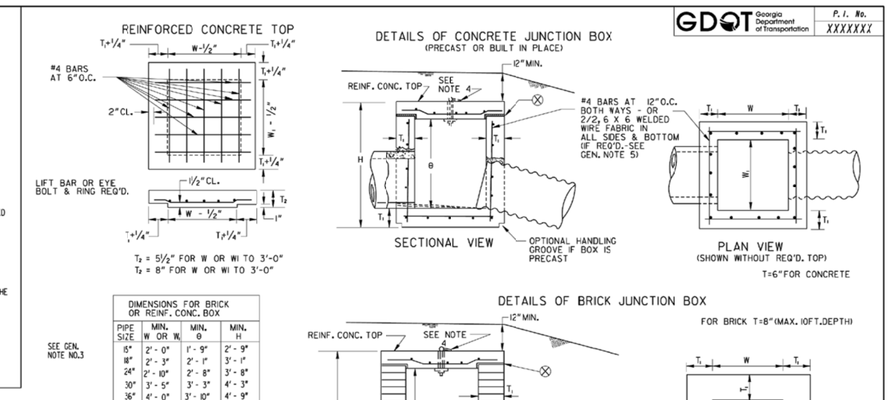
1. UNLESS OTHERWISE SPECIFIED, MATERIALS AND METHODS OF OPERATION REQUIRED TO INSTALL NEW AND REPLACEMENT PAVEMENT SHALL BE IN ACCORDANCE WITH THE LATEST APPLICABLE REQUIREMENTS AND SPECIFICATIONS OF CITY OF VALDOSTA
2. PAVEMENT SHALL BE REMOVED TO NEATLY SAWED STRAIGHT EDGES. SAWCUTS SHALL BE MADE TO MIN DEPTH OF 1-1/2" (INCHES).
3. BACKFILL SHALL BE IN ACCORDANCE WITH SPECIFICATIONS AND GDOT STANDARD SPECIFICATIONS.
4. THE TYPE AND THICKNESS OF THE NEW SURFACE MATERIAL SHALL BE CONSISTANT WITH THAT OF THE EXISTING SURFACE. TYPICAL STREETS VARY FROM 1" TO 4" THROUGHOUT IN ALL CASES SHALL MEET THE MINIMUM STANDARDS ESTABLISHED BY THE PLANS AND SPECIFICATIONS. WHERE MATERIAL TYPE IS NOT SPECIFIED THE REPLACEMENT PAVEMENT SHALL BE 1-1/2" OF SUPERPAVE ASPHALT.
5. MINIMUM 2' UNDISTURBED BRIDGE FOR THE CONCRETE BASE.

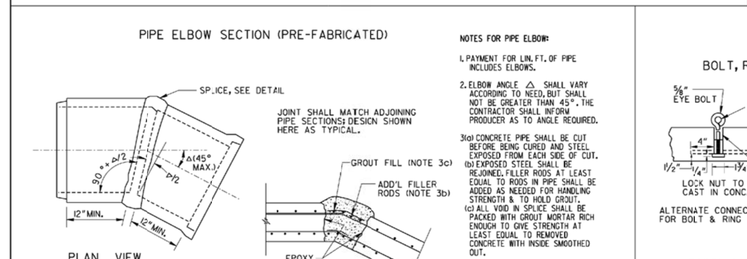
SPECIFICATION		DATE REVISED	SECTION
CITY OF VALDOSTA	CITY OF VALDOSTA STANDARD DETAIL	TRENCH WIDTH PAVEMENT REPLACEMENT	B 478-61



NOTES FOR PIPE CURVED ALIGNMENT:

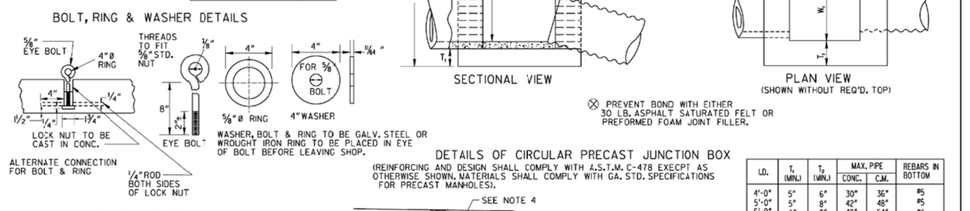
1. PLANS ARE TO SPECIFY ONLY THE PIPE DIAMETER "D", THE ANGLE "Δ", AND THE TANGENT ALIGNMENT.
2. PIPE WALL THICKNESS, "T", PIPE SECTION LENGTHS, "L", AND DROP IN PIPE JOINT "D-N-N" VARIES ACCORDING TO PIPE PRODUCER AND IS BASED ON FEASIBILITY.
3. THE RADIUS "R" AND THE NUMBER OF DROPPED JOINT PIPE SECTIONS "N" IS DETERMINED BY (I) & (II) ABOVE. MINOR MODIFICATIONS IN THE RADIUS "R" ARE NORMALLY MADE SO THAT "N" WILL BE A WHOLE NUMBER.
4. PIPE SECTIONS SHALL BE ORIENTED SUCH THAT THE PLANE OF THE DROPPED JOINT IS AT RIGHT ANGLES TO THE PLANE OF CURVATURE. ALSO, THE TOP OF SECTIONS ARE TO BE MARKED SO THAT THE DEFLECTION ANGLE IS PROPERLY ORIENTED.
5. DETAILS ARE SHOWN FOR CONCRETE PIPE, CLOSED ALIGNMENT FOR CMP PIPE, SIMILAR OR RECOMMENDED BY THE MANUFACTURER AND APPROVED BY THE ENGINEER.
6. PAYMENT PER LIN.FT. PIPE INCLUDES PIPE SECTIONS WITH DROPPED JOINTS.

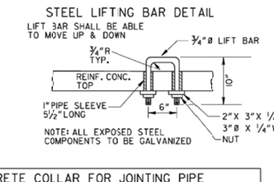


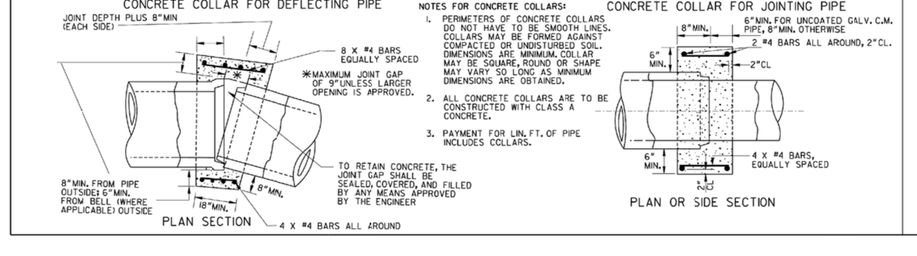


NOTES FOR PIPE ELBOW:

1. PAYMENT FOR LIN.FT. OF PIPE INCLUDES ELBOWS.
2. ELBOW ANGLE Δ SHALL VARY ACCORDING TO NEED, BUT SHALL NOT BE GREATER THAN 45°. THE CONTRACTOR SHALL INFORM PRODUCER AS TO ANGLE REQUIRED.
3. (a) CONCRETE PIPE SHALL BE CUT BEFORE BEING CURED AND STEEL EXPOSED FROM EACH SIDE OF CUT. OVEREXPOSED STEEL SHALL BE CUT FLUSH TO ADJACENT CONCRETE. (b) ADD'L FILLER RODS IN PIPE SHALL BE ADDED AS NEEDED FOR HANDLING STRENGTH & TO HOLD GROUT. (c) ALL VOID IN SPLICE SHALL BE PACKED WITH GROUT MORTAR RICH ENOUGH TO HOLD SHAPE AT LEAST 30 MINUTES AFTER REMOVED (CONCRETE MAY BE HAND SMOOTHED OUT).
4. CMP PIPE ELBOW NOT SHOWN, BUT MAY BE SPECIFIED. SOLID WELD SHALL BE REQUIRED FOR GALVANIZED JOINT WITH GALVANIZING AND/OR COATINGS REPAIRED AS REQ'D.







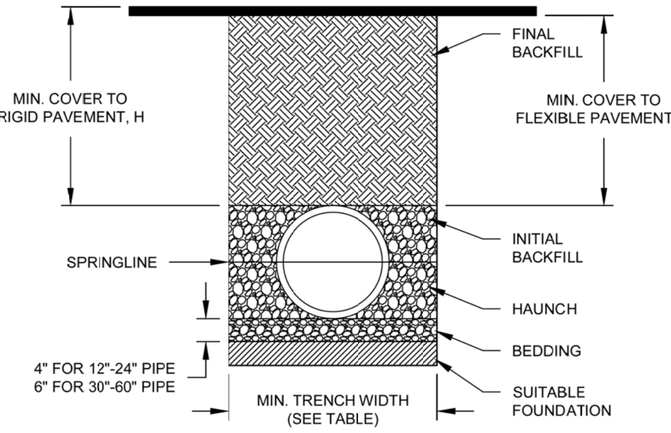
NOTES FOR CONCRETE COLLARS:

1. PERIMETERS OF CONCRETE COLLARS DO NOT HAVE TO BE SMOOTH LINES. COLLARS MAY BE FORMED AGAINST COMPACTED OR UNDISTURBED SOIL.
2. ALL CONCRETE COLLARS ARE TO BE CONSTRUCTED WITH CLASS A CONCRETE.
3. PAYMENT FOR LIN.FT. OF PIPE INCLUDES COLLARS.

GENERAL NOTES:

1. SPECIFICATIONS GEORGIA STANDARD, CURRENT EDITION & SUPPLEMENTS THERETO.
2. (a) ILLUSTRATED PIPE, PIPE JOINTS, ALIGNMENT, SIZES, ETC. ARE SHOWN AS REPRESENTATIVE. ACTUAL REQUIREMENTS VARY PER LOCATION AS INDICATED IN THE PLANS.
3. JUNCTION BOXES DO NOT HAVE TO BE CONSTRUCTED SQUARE. W & H DIMENSIONS MAY VARY ACCORDING TO PIPE SIZE.
4. ALL JUNCTION BOX TOPS SHALL BE EQUIPPED WITH EITHER AN EYE BOLT & RING (SHOWN) OR A LIFTING BAR (ALTERNATE).
5. REINFORCING IS REQUIRED FOR ALL PRECAST JUNCTION BOXES. REINFORCING MAY BE OMITTED FOR BUILT IN PLACE CONCRETE BOXES NOT OVER 10 FT.DEEP AND NOT LARGER THAN 3'X 3'. CONSTRUCTION JOINTS PERMITTED IF DOWELED OR KEYED. ALL JUNCTION BOX TOPS SHALL BE REINFORCED.

DATE	REVISION	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA
		STANDARD PRECAST OR BUILT IN PLACE JUNCTION BOXES PIPE COLLARS, PIPE ELBOW & PIPE CURVED ALIGNMENT
		NOT TO SCALE — REDRAWN JULY 2024 — JULY 1935
	DES. DRN. TRA. CHK.	SUBMITTED: STATE ROAD & AIRPORT DESIGN ENGR. APPROVED: STATE HIGHWAY ENGINEER — NUMBER 9031U



RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
4" (100mm)	21" (533mm)
6" (150mm)	23" (584mm)
8" (200mm)	26" (660mm)
10" (250mm)	28" (711mm)
12" (300mm)	30" (762mm)
15" (375mm)	34" (864mm)
18" (450mm)	39" (991mm)
24" (600mm)	48" (1219mm)
30" (750mm)	56" (1422mm)
36" (900mm)	64" (1626mm)
42" (1050mm)	72" (1829mm)
48" (1200mm)	80" (2032mm)
60" (1500mm)	96" (2438mm)

MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS**

PIPE DIAM.	SURFACE LIVE LOADING CONDITION H-25	HEAVY CONSTRUCTION (75T AXLE LAOD) *
12" - 48" (300mm - 1200mm)	12" (305mm)	48" (1219mm)
60" (1500mm)	24" (610mm)	60" (1524mm)

* VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER
**SEE BACKFILL REQUIREMENTS IN NOTE 6.

MAXIMUM RECOMMENDED COVER BASED ON VECHICLE LOADING CONDITIONS

PIPE DIAM.	CLASS I COMPACTED	CLASS I DUMPED	CLASS II 95%	CLASS II 90%	CLASS III 95%
4" (100mm)	34 (10.4m)	16 (4.9m)	23 (7.0m)	16 (4.9m)	17 (5.2m)
6" (150mm)	40 (12.2m)	19 (5.8m)	27 (8.2m)	19 (5.8m)	20 (6.1m)
8" (200mm)	30 (9.1m)	14 (4.3m)	21 (6.4m)	14 (4.3m)	15 (4.6m)
10" (250mm)	34 (10.4m)	16 (4.9m)	23 (7.0m)	16 (4.9m)	17 (5.2m)
12" (300mm)	35 (10.7m)	17 (5.2m)	24 (7.3m)	17 (5.2m)	18 (5.5m)
15" (375mm)	37 (11.3m)	18 (5.5m)	25 (7.6m)	18 (5.5m)	19 (5.8m)
18" (450mm)	32 (9.8m)	15 (4.6m)	22 (6.7m)	15 (4.6m)	16 (4.9m)
24" (600mm)	27 (8.2m)	13 (4.0m)	19 (5.8m)	13 (4.0m)	14 (4.3m)
30" (750mm)	22 (6.7m)	11 (3.4m)	16 (4.9m)	11 (3.4m)	11 (3.4m)
36" (900mm)	26 (7.9m)	12 (3.7m)	18 (5.5m)	12 (3.7m)	13 (4.0m)
42" (1050mm)	24 (7.3m)	11 (3.4m)	17 (5.2m)	11 (3.4m)	12 (3.7m)
48" (1200mm)	23 (7.0m)	11 (3.4m)	16 (4.9m)	11 (3.4m)	12 (3.7m)
60" (1500mm)	26 (7.9m)	12 (3.7m)	18 (5.5m)	12 (3.7m)	13 (4.0m)

FILL HEIGHT TABLE GENERATED USING AASHTO SECTION 12, LOAD RESISTANCE FACTOR DESIGN (LRFD) PROCEDURE WITH THE FOLLOWING ASSUMPTIONS:
NO HYDROSTATIC PRESSURE,
UNIT WEIGHT OF SOIL (Ys) = 120 PCF

NOTES:

1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION
2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-1500mm).
5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDINGTO THE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT. FOR TRAFFIC APPLICATIONS WITH LESS THAN FOUR FEET OF COVER, EMBEDMENT OF THE PIPE SHALL BE USING ONLY A CLASS I OR CLASS II BACKFILL.

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ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT, NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEERS RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

REV.	DESCRIPTION	BY	MM/DD/YY	CHK'D
5	INITIAL BACKFILL	JAB	04/02/20	

TRENCH INSTALLATION DETAIL (ASTM F2648)

DRAWING NUMBER: STD-101A

ADS ADVANCED DRAINAGE SYSTEMS, INC.
4640 TRUEMAN BLVD
HILLIARD, OHIO 43026

DESIGN BY: JLE
DATE: 8/15/13
DRAWN BY:
SCALE: NTS
SHEET: 1 OF 1

AXIS ENGINEERING CONSULTANTS
LEESBURG • VALDOSTA • WARNER ROBINS

GEORGIA — AXIS ENGINEERING CONSULTANTS — PEF009117 — 06/30/2026 — CERTIFICATE OF AUTHORIZATION

GEORGIA — REGISTERED — No. PE030411 — PROFESSIONAL — 10/1/2025 — ENGINEER — B. MATTHEW INMAN

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

B. Matthew Inman
LEVEL II CERTIFIED DESIGN PROFESSIONAL

CERTIFICATION NUMBER: 0000000885
ISSUED: 06/01/2022 EXPIRES: 06/01/2025

AEC PROJECT NUMBER
25-25058
DATE OF PLANS
8/5/2025
REVISIONS

NO.	DATE	DESCRIPTION
1	10/1/2025	REV. PER CITY COMMENTS
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
9	-	-
10	-	-

KAR LIFT STATION
CITY OF VALDOSTA
CONSTRUCTION DETAILS

VALDOSTA, LOWNDES COUNTY, GEORGIA

NOT TO SCALE

SHEET
C6.3 OF 40

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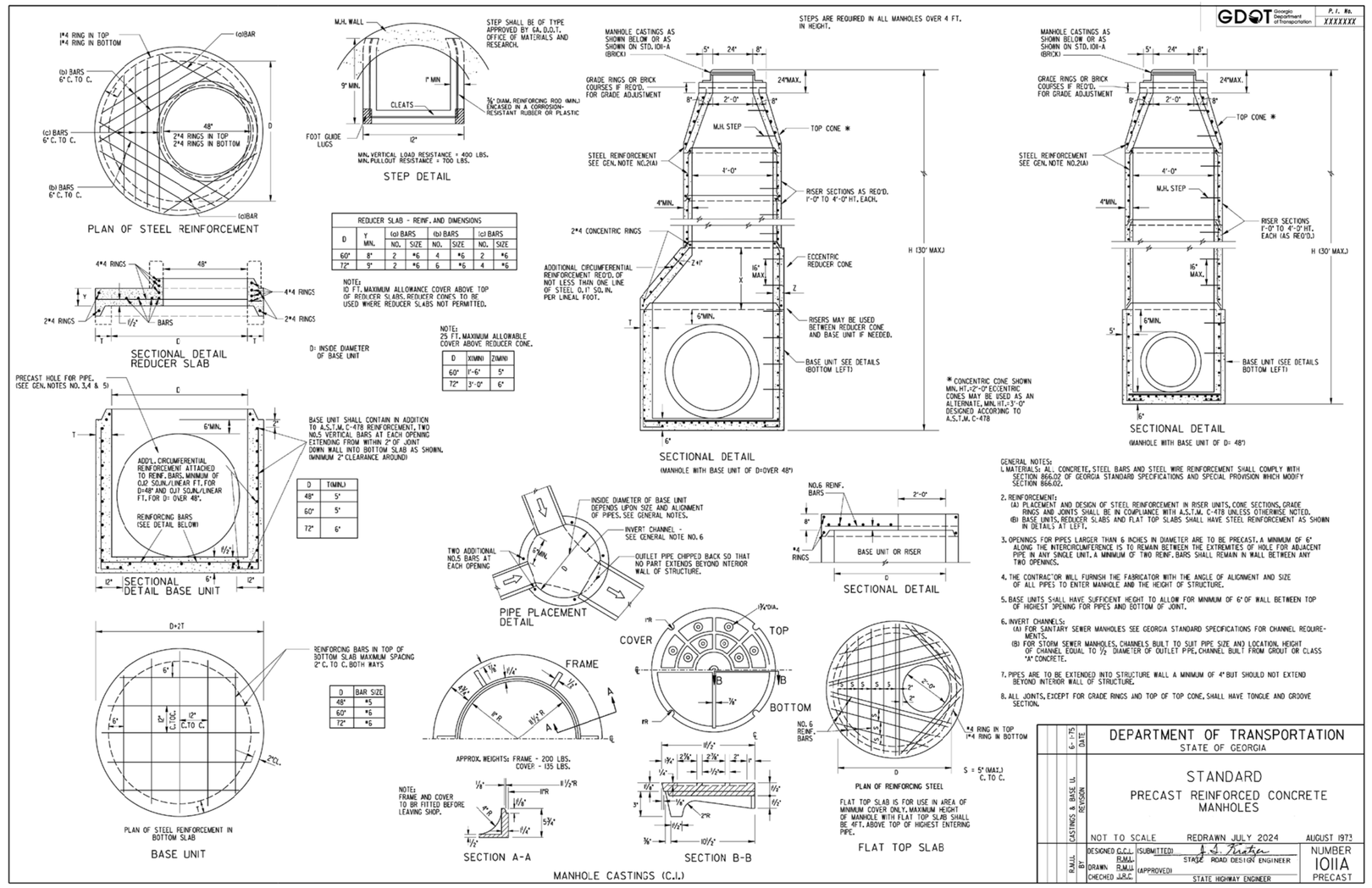

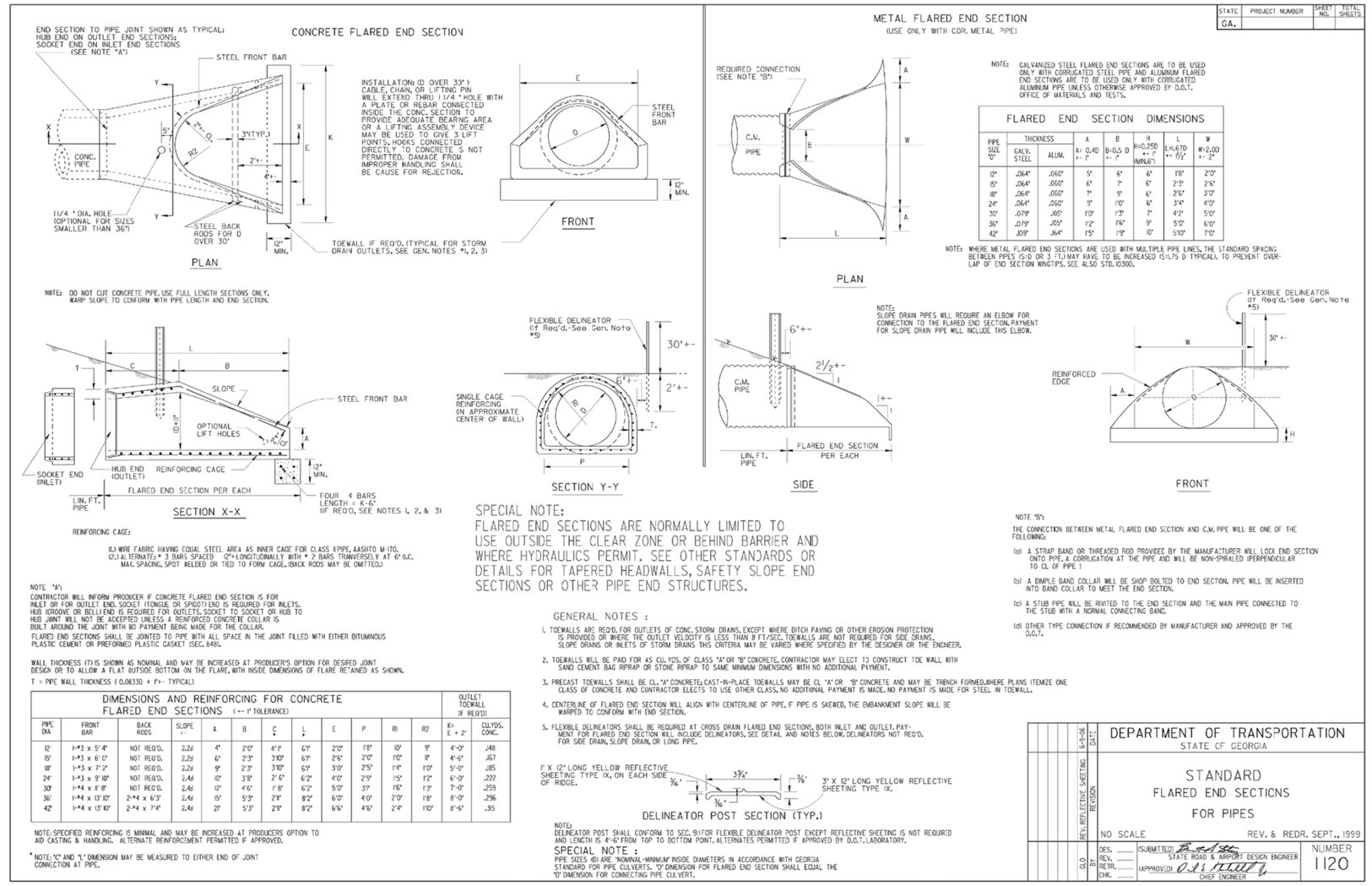

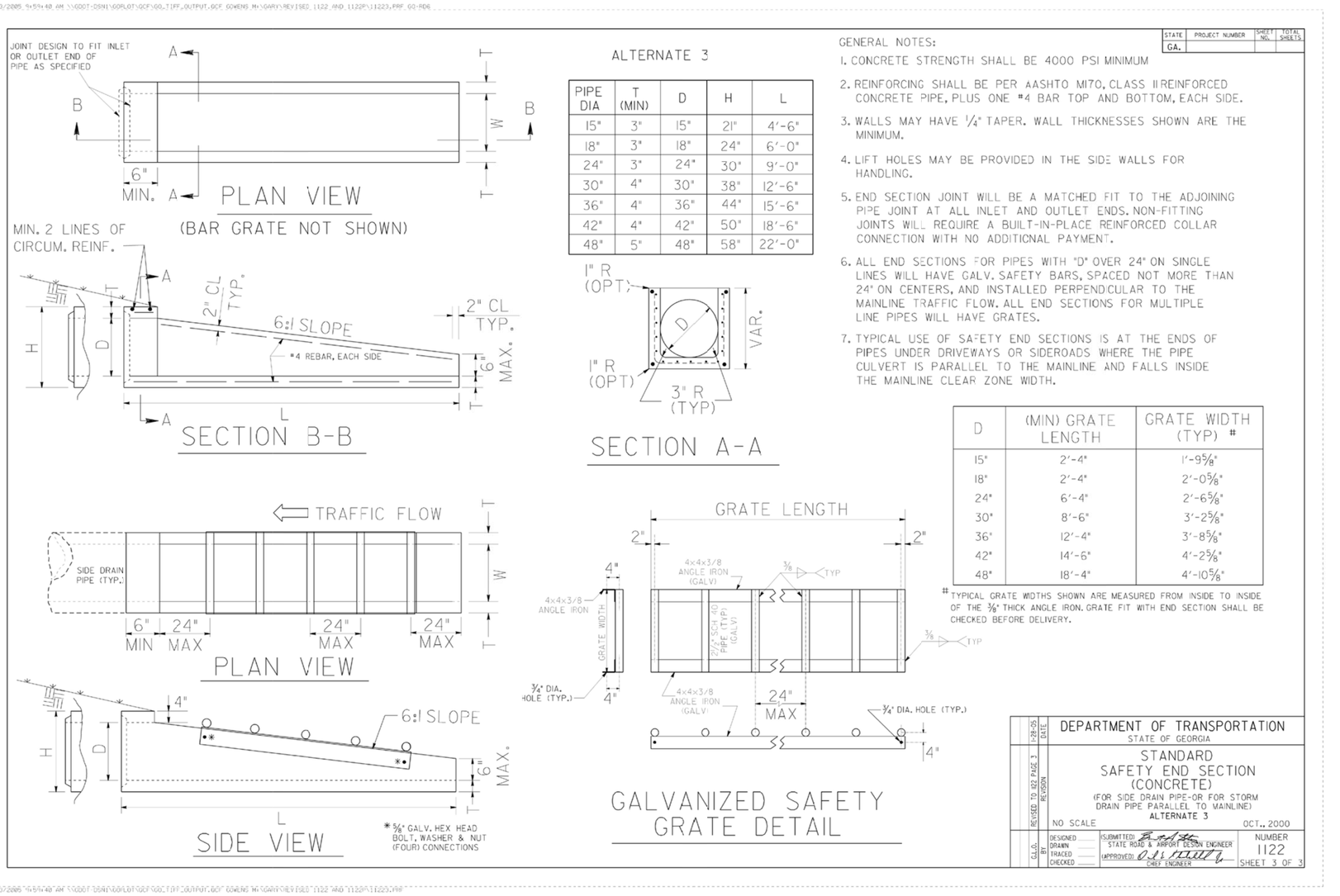

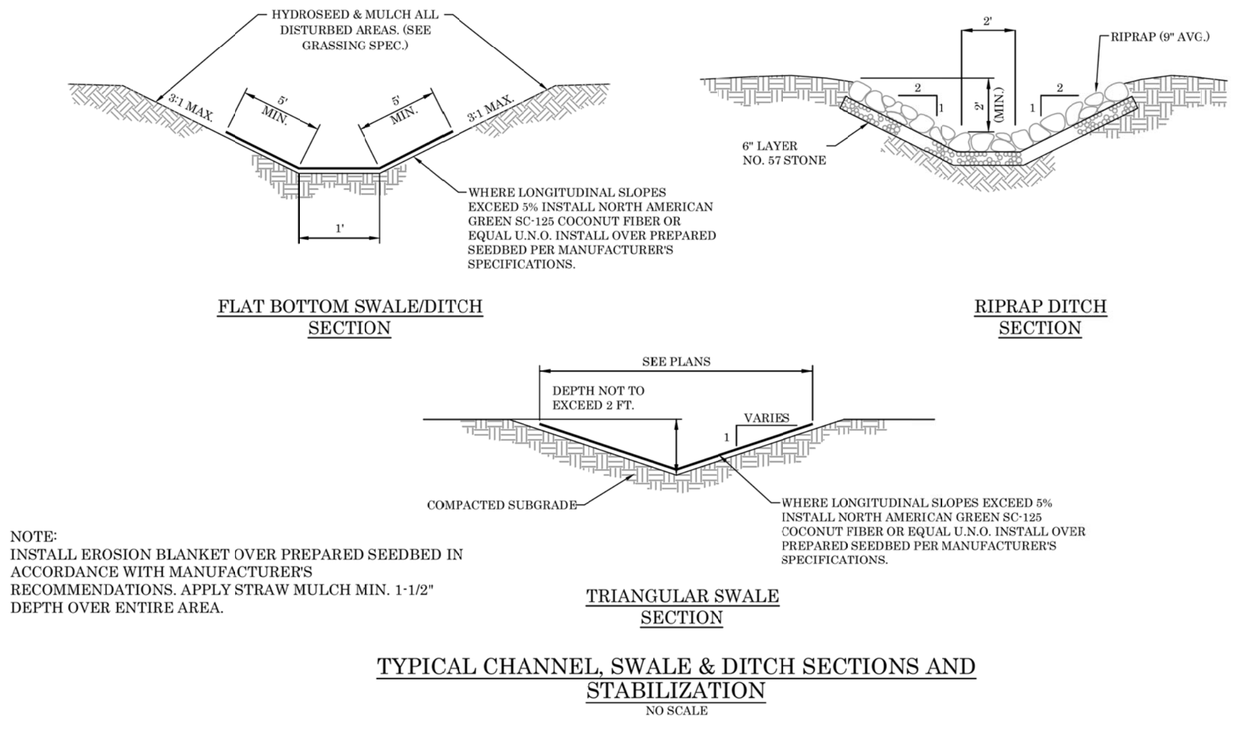

AXIS ENGINEERING CONSULTANTS
LEESBURG • VALDOSTA • WARNER ROBINS

GEORGIA AXIS ENGINEERING CONSULTANTS PEP000117 06/30/2026 CERTIFICATE OF AUTHORIZATION

GEORGIA REGISTERED No. PE033411 PROFESSIONAL 10/1/2025 ENGINEER B. MATTHEW INMAN

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

B. Matthew Inman
Level II Certified Design Professional
Certification Number: 0000000885
Issued 06/01/2022 Expires: 06/01/2025

AEC PROJECT NUMBER
25-25058
DATE OF PLANS
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1	10/1/2025	REV. PER CITY COMMENTS
2	-	-
3	-	-
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KAR LIFT STATION
CITY OF VALDOSTA
CONSTRUCTION DETAILS

VALDOSTA, LOWNDES COUNTY, GEORGIA

NOT TO SCALE

SHEET
C6.4 OF 40

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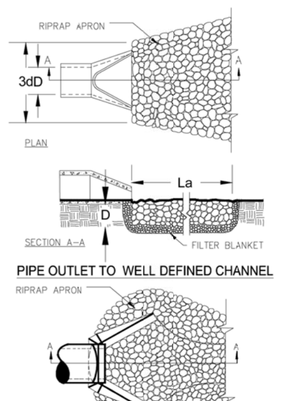
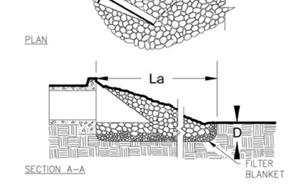
RIPRAP OUTLET PROTECTION

PIPE OUTLET TO FLAT AREA – NO WELL DEFINED CHANNEL



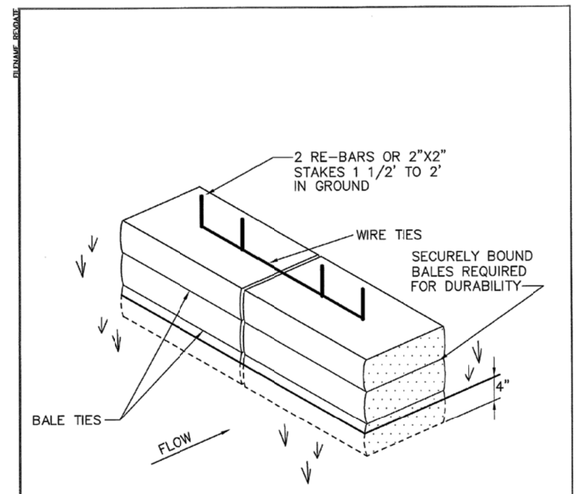
PIPE OUTLET TO WELL DEFINED CHANNEL



NOTES:
1. La IS THE LENGTH OF THE RIPRAP APRON.
2. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESSHAN 6".
3. IN A WELL–DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION.

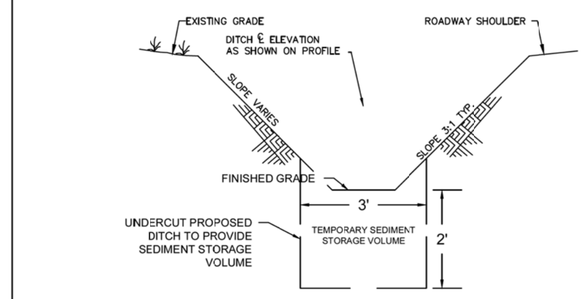
St

OUTLET PROTECTION
NOT TO SCALE



SEDIMENT BARRIER–HAY BALE
N.T.S.

	LOWNDES COUNTY, GEORGIA	REVISED JUNE 2009 DATE : JULY 1996
	STANDARD DETAILS WATER AND WASTEWATER	SCALE : N.T.S. JOB NO.: 1215–015–01 SHT. LC–2



ROADSIDE DITCH SEDIMENT STORAGE AREA
NOT TO SCALE

DITCH CHECK DAM SEDIMENT STORAGE CALCULATION:

1. DISTURBED AREA = 2.1 AC
2. REQUIRED SEDIMENT STORAGE = 67 CY/AC * DISTURBED AREA
   REQUIRED SEDIMENT STORAGE = 67 CY/AC * 2.1 AC
   REQUIRED SEDIMENT STORAGE = 140.7 CY = 3,799 CF
3. ASSUME SEDIMENT DEPTH OF 2' BEHIND DITCH CHECKDAMS AND 35' ALONG THE CENTERLINE OF THE DITCH
4. DETERMINE IF ADEQUATE SEDIMENT STORAGE AREA ALONG UNDERCUT DITCHES IS POSSIBLE.
5. NUMBER OF DITCH CHECKDAMS = 33
   LENGTH OF UNDERCUT DITCH PER CHECKDAM = 30'
   DEPTH OF SEDIMENT = 2'
   WIDTH OF SEDIMENT STORAGE AREA = 3'
   PROVIDED STORAGE PER CHECKDAM = 2'X3'X30' = 180 CF = 6.67 CY
   AVAILABLE SEDIMENT STORAGE = 180 CF x 33 DAMS = 5,940 CF

180 CF = 6.67 CY OF SEDIMENT STORAGE IS AVAILABLE IN **EACH** DITCH CHECKDAM
5,940 CF = 220 CY OF **TOTAL** SEDIMENT STORAGE IS AVAILABLE IN THE DITCH CHECKDAMS.

DITCH CHECK DAM SEDIMENT STORAGE CALCULATIONS

Cd-HB

HAY BELL CHECK DAM DETAIL
NOT TO SCALE

AXIS ENGINEERING CONSULTANTS
LEESBURG★VALDOSTA★WARNER ROBINS

GEORGIA CERTIFICATE OF AUTHORIZATION
AXIS ENGINEERING CONSULTANTS
PEP009117
06/30/2026

GEORGIA REGISTERED
No. PE039411
PROFESSIONAL
10/1/2025
ENGINEER
B. MATTHEW INMAN

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

B. Matthew Inman
Level II Certified Design Professional

Certification Number: 0C000000885
Issued 06/01/2022 Expires: 06/01/2025

AEC PROJECT NUMBER
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10	-	-

KAR LIFT STATION
CITY OF VALDOSTA
EROSION, SEDIMENTATION, & POLLUTION CONTROL DETAILS

VALDOSTA, LOWNDES COUNTY, GEORGIA

NOT TO SCALE

SHEET
C7.0 OF 40

DEFINITION

Controlling surface and air movement of dust on construction sites, roads, and demolition sites.

CONDITIONS

This practice is applicable to areas subject to surface and air movement of dust where on and off-site damage may occur without treatment.

METHOD AND MATERIALS

A. TEMPORARY METHODS

Mulches. See standard Ds1 - Disturbed Area Stabilization (With Mulching Only), Synthetic resins may be used instead of asphalt to bind mulch material. Refer to standard Tb-Tackifiers and Binders. Resins such as Curasol or Terratack should be used according to manufacturer's recommendations.

Vegetative Cover. See standard Ds2 - Disturbed Area Stabilization (With Temporary Seeding).

Spray-on Adhesives. These are used on mineral soils (not effective on muck soils). Keep traffic off these areas. Refer to standard Tb-Tackifiers and Binders.

Tillage. This practice is designed to roughen and bring clods to the surface. It is an emergency measure which should be used before wind erosion starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12 inches apart, spring-toothed harrows, and similar plows are examples of equipment which may produce the desired effect.

Irrigation. This is generally done as an emergency treatment. Site is sprinkled with water until the surface is wet. Repeat as needed.

Barriers. Solid board fences, snow fences, burlap fences, crate walls, bales of hay and similar material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 15 times their height are effective in controlling wind erosion.

Calcium Chloride. Apply at rate that will keep surface moist. May need retreatment.

B. PERMANENT METHODS

Permanent Vegetation. See standard Ds3 -Disturbed Area Stabilization (With Permanent Vegetation). Existing trees and large shrubs may afford valuable protection if left in place.

Topsoiling. This entails covering the surface with less erosive soil material. See standard Tp - Tcpsoiling.

Stone. Cover surface with crushed stone or coarse gravel. See standard Cr-Construction Road Stabilization.

Du

DUST CONTROL ON DISTURBED AREAS

DUST CONTROL ON DISTURBED AREAS
NOT TO SCALE

DEFINITION

Applying plant residues or other suitable materials, produced on the site if possible, to the soil surface.

CONDITIONS

Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Mulch can be used as a singular erosion control device for up to six months, but it shall be applied at the appropriate depth, depending on the material used, anchored, and have a continuous 90% cover or greater of the soil surface. Maintenance shall be required to maintain appropriate depth and 90% cover. Temporary vegetation may be employed instead of mulch if the area will remain undisturbed for less than six months. If an area will remain undisturbed for greater than six months, permanent vegetative techniques shall be employed.

SPECIFICATIONS

MULCHING WITHOUT SEEDING
This standard applies to grades or cleared areas where seedings may not have a suitable growing season to produce an erosion retardant cover, but can be stabilized with a mulch cover.

Site Preparation
1. Grade to permit the use of equipment for applying and anchoring mulch.
2. Install needed erosion control measures as required such as dikes, diversions, berms, terraces and sediment barriers.
3. Loosen compact soil to a minimum depth of 3 inches.

Mulching Materials
Select one of the following materials and apply at the depth indicated:
1. Dry straw or hay shall be applied at a depth of 2 to 4 inches providing complete soil coverage. One advantage of this material is easy application.
2. Wood waste (chips, sawdust or bark) shall be applied at a depth of 2 to 3 inches. Organic material from the clearing stage of development should remain on site, be chipped, and applied as mulch. This method of mulching can greatly reduce erosion control costs.
3. Polyethylene film shall be secured over banks or stockpiled soil material for temporary protection. This material can be salvaged and re-used.

Applying Mulch
When mulch is used without seeding, mulch shall be applied to provide full coverage of the exposed area.
1. Dry straw or hay mulch and wood chips shall be applied uniformly by hand or by mechanicalequipment.
2. If the area will eventually be covered with perennial vegetation, 20-30 pounds of nitrogen per acre in addition to the normal amount shall be applied to offset the uptake of nitrogen caused by the decomposition of the organic mulches.
3. Apply polyethylene film on exposed areas.

Anchoring Mulch
1. Straw or hay mulch can be pressed into the soil with a disk harrow with the disk set straight or with a special "packer disk." Disks may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disk should be dull enough not to cut the mulch but to press it into the soil leaving much of it in an erect position. Straw or hay mulch shall be anchored immediately
after application. Straw or hay mulch spread with special blower-type equipment may be anchored with emulsified asphalt (Grade AE-S or SS-1). The asphalt emulsion shall be sprayed onto the mulch as it is ejected from the machine. Use
100 gallons of emulsified asphalt and 100 gallons of water per ton of mulch. Tackifiers and binders can be substituted for emulsified asphalt. Please refer to specification Tb -Tackifiers and Binders. Plastic mesh or netting with mesh no larger than one inch by one inch shall be installed according to manufacturer's specifications.
2. Netting of the appropriate size shall be used to anchor wood waste. Openings of the netting shall not be larger than the average size of the wood waste chips.
3. Polyethylene film shall be anchor trenched at the top as well as incrementally as necessary.

Ds1

DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)

DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
NOT TO SCALE

DEFINITION

The establishment of temporary vegetative cover with fast growing seedings for seasonal protection on disturbed or denuded areas.

CONDITIONS

Temporary grassing, instead of mulch, can be applied to rough graded areas that will be exposed for less than six months. Temporary vegetative measures should be coordinated with permanent measures to assure economical and effective stabilization. Most types of temporary vegetation are ideal to use as companion crops until the permanent vegetation is established. seded.

SEEDING RATES FOR TEMPORARY SEEDING

SPECIES	RATE Per 1,000 sq.ft.	RATE Per Acre *	PLANTING DATES **
Rye	3.9 pounds	3 bu.	9/1-3/1
Ryegrass	0.9 pound	40 lbs.	8/15-4/1
Annual Lespedeza	0.9 pound	40 lbs.	1/15-3/15
Weeping Lovegrass	0.1 pound	4 lbs.	2/15-6/15
Sudangrass	1.4 pounds	60 lbs.	3/1-8/1
Browntop Millet	0.9 pound	40 lbs.	4/1-7/15
Wheat	4.1 pounds	3 bu.	9/15-2/1

* Unusual site conditions may require heavier seeding rates
** Seeding dates may need to be altered to fit temperture variations and conditions.

Ds2

DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

SPECIFICATIONS

Grading and Shaping

Excessive water run-off shall be reduced by properly designed and installed erosion control practices such as closed drains, ditches, dikes, diversions, sediment barriers and others.

No shaping or grading is required if slopes can be stabilized by hand-seeded vegetation or if hydraulic seeding equipment is to be used.

Seedbed Preparation

When a hydraulic seeder is used, seedbed preparation is not required. When using conventional or handseeding, seedbed preparation is not required if the soil material is loose and not sealed by rainfall.

When soil has been sealed by rainfall or consists of smooth cut slopes, the soil shall be pitted, trenched or otherwise scarified to provide a place for seed to lodge and germinate.

Lime and Fertilizer

Agricultural lime is required unless soil tests indicate otherwise. Apply agricultural lime at a rate of one ton per acre. Graded areas require lime application. Soils can be tested to determine if fertilizer is needed. On reasonably fertile soils or soil material, fertilizer is not required. For soils with very low fertility, 500 to 700 pounds of 10-10-10 fertilizer or the equivalent per acre (12-16 lbs./1,000 sq. ft.) shall be applied. Fertilizer should be applied before land preparation and incorporated with a disk, ripper or chisel.

Seeding

Select a grass or grass-legume mixture suitable to the area and season of the year. Seed shall be applied uniformly by hand, cyclone seeder, drill, cultipacker seeder, or hydraulic seeder (slurry including seed and fertilizer). Drill or cultipacker seeders should normally place seed one-quarter to one-half inch deep. Appropriate depth of planting is ten times the seed diameter. Soil should be "raked" lightly to cover seed with soil if seeded by hand.

Mulching

Temporary vegetation can, in most cases, be established without the use of mulch. Mulch without seeding should be considered for short term protection. Refer to Ds1 - Disturbed Area Stabilization (With Mulching Only).

Irrigation

During times of drought, water shall be applied at a rate not causing runoff and erosion. The soil shall be thoroughly wetted to a depth that will insure germination of the seed. Subsequent applications should be made when needed.

DISTURBED AREA STABILIZATION (TEMPORARY SEEDING)
NOT TO SCALE

DEFINITION

A permanent vegetation using sods on highly erodible or critically eroded lands.

CONDITIONS

This application is appropriate for areas which require immediate vegetative covers, drop inlets, grass swales, and waterways with intermittent flow .

CONSTRUCTION SPECIFICATIONS INSTALLATION

Soil Preparation

- Bring soil surface to final grade. Clear surface of trash, woody debris, stones and clods larger than 1". Apply sod to soil surfaces only and not frozen surfaces, or gravel type soils.
- Topsoil properly applied will help guarantee stand. Don't use topsoil recently treated with herbicides or soil sterilants.
- Mix fertilizer into soil surface. Fertilize based on soil tests or Table 6-6.1. For fall planting of warm season species, half the fertilizer should be applied at planting and the other half in the spring.

Table 6-6.1. Fertilizer Requirements for Soil Surface Application

Fertilizer Type (lbs./acre)	Fertilizer Rate (lbs./acre)	Fertilizer Rate	Season
10-10-10	1000	.025	Fall

- Agricultural lime should be applied based on soil tests or at a rate of 1 to 2 tons per acre.

Installation

- Lay sod with tight joints and in straight lines. Don't overlap joints. Stagger joints and do not stretch sod.
- On slopes steeper than 3:1, sod should be anchored with wooden or biodegradable pins or other approved methods.
- Installed sod should be rolled or tamped to provide good contact between sod and soil.
- Irrigate sod and soil to a depth of 4" immediately after installation.
- Sod should not be cut or spread in extremely wet or dry weather.
- Irrigation should be used to supplement rainfall for a minimum of 2-3 weeks.

MATERIALS

- Sod selected should be certified. Sod grown in the general area of the project is desirable.
- Sod should be machine cut and contain 3/4" ±1/4" of soil, not including shoots or thatch
- Sod should be cut to the desired size within ±5%. Torn or uneven pads should be rejected.
- Sod should be cut and installed within 36 hours of digging.
- Avoid planting when subject to frost heave or hot weather if irrigation is not available.
- The sod type should be shown on the plans or installed according to Table 6-6.2, See Figure 6-4.1 for your Resource Area.

Table 6-6.2. Sod Planting Requirements

Grass	Varieties	Resource Area	Growing Season
Bermudagrass	Common Tifway Tifgreen Tifdwarf	M-L,P,C P,C P,C P,C	Warm Weather
Bahiagrass	Pensacola	P,C	Warm Weather
Centipede	-	P,C	Warm Weather
St. Augustine	Common Bitterblue Raleigh	C -	Warm Weather
Zoysia	Emerald Myer	P,C	Warm Weather
Tall Fescue	Kentucky	M-L,P	Cool Weather

MAINTENANCE

- Re-sod areas where an adequate stand of sod is not obtained.
- New sod should be mowed sparingly. Grass height should not be cut less than 2"-3" or as specified.
- Apply one ton of agricultural lime as indicated by soil test or every 4-6 years.
- Fertilize grasses in accordance with soil tests or Table 6-6.2.

Table 6-6.3. Fertilizer Requirements for Sod

Types of Species	Planting Year	Fertilizer (N-P-K)	Rate (lbs./acre)	Nitrogen Top Dressing Rate (lbs./acre)
Cool Season Grasses	First Second Maintenance	6-12-12 6-12-12 10-10-10	1500 1000 400	50-100 " 30
Warm Season Grasses	First Second Maintenance	6-12-12 6-12-12 10-10-10	1500 800 400	50-100 50-100 30

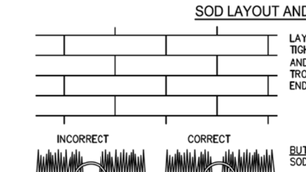
Ds4

DISTURBED AREA STABILIZATION (WITH SODDING)

DISTURBED AREA STABILIZATION (WITH SODDING)
NOT TO SCALE

SOD MAINTENANCE AND INSTALLATION

SOD LAYOUT AND PREPARATION



LAY SOD IN A STAGGERED PATTERN. BUTT THE STRIPS TIGHTLY AGAINST EACH OTHER. DO NOT LEAVE SPACES AND DO NOT OVERLAP. A SHARPENED MASON'S TROWEL IS A HANDY TOOL FOR TUCKING DOWN THE ENDS AND TRIMMING PIECES.

BUTTING: ANGLED ENDS CAUSED BY THE AUTOMATIC SOD CUTTER MUST BE MATCHED CORRECTLY.

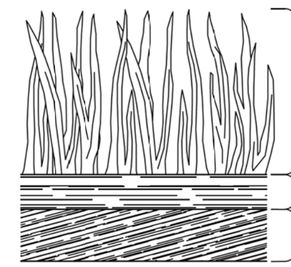
DIRECTIONS FOR INITIAL MAINTENANCE

Step 1. ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL

Step 2. WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS SOON AS THE SOD IS LAID.

Step 3. MOW WHEN THE SOD IS ESTABLISHED -- IN 2-3 WEEKS. SET THE MOWER HIGH (2"-3").

APPEARANCE OF GOOD SOD



SHOOTS OR GRASS BLADES: GRASS SHOULD BE GREEN AND HEALTHY, MOWED AT A 2"-3" CUTTING HEIGHT.

THATCH: GRASS CLIPPINGS AND DEAD LEAVES (UP TO 1/2" THICK).

ROOT ZONE: SOIL AND ROOTS. SHOULD BE 1/2"–3/4" THICK WITH DENSE ROOT MAT FOR STRENGTH.

Ds4

SOD INSTALLATION
NOT TO SCALE

DEFINITION

The planting of perennial vegetation such as trees, shrubs, vines, grasses, or legumes on exposed areas for final permanent stabilization. Permanent perennial vegetation shall be used to achieve first stabilization,.

CONDITIONS

Permanent perennial vegetation is used to provide a protective cover for exposed areas including cuts, fills, dams, and other denuded areas.

SPECIFICATIONS

Grading and Shaping

Grading and shaping may not be required where hydraulic seeding and fertilizing equipment is to be used, Vertical banks shall be sloped to enable plant establishment.

When conventional seeding and fertilizing are to be done, grade and shape where feasible and practical, so that equipment can be used safely and efficiently during seedbed preparation, seeding, mulching and maintenance of the vegetation.

oncentrations of water that will cause excessive soil erosion shall be diverted to a safe outlet, Diversions and other treatment practices shall conform with the appropriate standards and specifications,

Seedbed Preparation

Seedbed preparation may not be required where hydraulic seeding and fertilizing equipment is to be used, When conventional seeding is to be used, seedbed preparation will be done as follows:

Broadcast plantings

1. Tillage at a minimum, shall adequately loosen the soil to a depth of 4 to 6 inches; alleviate compaction; incorporate lime and fertilizer; smooth and firm the soil; allow for the proper placement of seed, sprigs, or plants; and allow for the anchoring of straw or hay mulch if a disk is to be used.
2. Tillage may be done with any suitable equipment.
3. Tillage should be done on the contour where feasible.
4. On slopes too steep for the safe operation of tillage equipment, the soil surface shall be pitted or trenched across the slope with appropriate hand tools to provide two places 5 to 8 inches apart in which seed may lodge and germinate. Hydraulic seeding may also be used.

Individual Plants

1. Where individual plants are to be set, the soil shall be prepared by excavating holes, opening furrows, or dibble planting.
2. For nursery stock plants, holes shall be large enough to accommodate roots without crowding.
3. Where pine seedlings are to be planted, subsoil under the row 36 inches deep on the contour four to six months prior to planting, Subsoiling should be done when the soil is dry, preferably in August or September.

Lime and Fertilizer Rates and Analysis

Agricultural lime is required at the rate of one to two tons per acre unless soil tests indicate otherwise. Graded areas require lime application. If lime is applied within six months of planting permanent perennial vegetation, additional lime is not required. Agricultural lime shall be within the specifications of the Georgia Department of Agriculture.

Lime spread by conventional equipment shall be "ground limestone." Ground limestone is calcitic or dolomitic limestone ground so that 90 percent of the material will pass through a 10-mesh sieve, not less than 50 percent will pass through a 50-mesh sieve and not less than 25 percent will pass through a 100-mesh sieve.

Fast-acting lime spread by hydraulic seeding equipment should be "finely ground limestone" spanning from the 180 micron size to the 5 micron size. Finely ground limestone is calcitic or dolomitic limestone ground so that 95 percent of the material will pass through a 100-mesh sieve.

It is desirable to use dolomitic limestone in the Sand Hills, Southern Coastal Plain and Atlantic Coast Fatwoods MLRAs. (See Figure 6-4.1)

Agricultural lime is generally not required where only trees are plantec.

Initial fertilization, nitrogen, topdressing, and maintenance fertilizer requirements for each species or combination of species are listed in Table 6-6.1.

Lime and Fertilizer Application

When hydraulic seeding equipment is used, the initial fertilizer shall be mixed with seed, innoculant if needed), and wood cellulose or wood pulp fiber mulch and applied in a slurry. The innoculant, if needed, shall be mixed with the seed prior to being placed into the hydraulic seeder. The slurry mixture will be agitated during application to keep the ingredients thoroughly mixed. The mixture will be spread uniformly over the area within one hour after being placed in the hydroseeder.

Finely ground limestone can be applied in the mulch slury or in combination with the top dressing.

When conventional planting is to be done, lime and fertilizer shall be applied uniformly in one of the following ways:

1. Apply before land preparation so that it will be mixed with the soil during seedbed preparation.

2. Mix with the soil used to fill the holes, distribute in furrows.

3. Broadcast after steep surfaces are scarified, pitted or trenched.

4. A fertilizer pellet shall be placed at root depth in the closing hole beside each pine tree seedling.

Planting

Hydraulic Seeding

Mix the seed (innoculated if needed), fertilizer, and wood cellulose or wood pulp fiber mulch with water and apply in a slurry uniformly over the area to be treated. Apply within one hour after the mixture is made.

Conventional Seeding

Seeding will be done on a freshly prepared and firmed seedbed. For broadcast planting, use a cultipacker seeder, drill, rotary seeder, other mechanical seeder, or hand seeding to distribute the seed uniformly over the area to be treated. Cover the seed lightly with 1/8 to 1/4 inch of soil for small seed and 1/2 to 1 inch for large seed when using a cultipacker or other suitable equipment.

No-till Seeding

No-till seeding is permissible into annual cover crops when planting is done following maturity of the cover crop or if the temporary cover stand is sparse enough to allow adequate growth of the permanent (perennial) species. No-till seeding shall be done with appropriate no-till seeding equipment. The seed must be uniformly distributed and planted at the proper depth.

Individual Plants

Shrubs, vines and sprigs may be planted with appropriate planters or hand tools. Pine trees shall be planted manually in the subsoil furrow. Each plant shall be in a manner that will avoid crowding the roots. Nursery stock plants shall be planted at the same depth or slightly deeper than they grew at the nursery. The tips of vines and sprigs must be at or slightly above the ground surface. Where individual holes are dug, fertilizer shall be placed in the bottom of the hole, two inches of soil shall be added and the plant shall be set in the hole.

Mulching

Mulch is required for all permanent vegetation applications, Mulch applied to seeded areas shall achieve 75% soil cover. Select the mulching material from the following and apply as indicated:

1. Dry straw or dry hay of good quality and free of weed seeds can be used. Dry straw shall be applied at the rate of 2 tons per acre. Dry hay shall be applied at a rate of 2 1/2 tons per acre.
2. Wood cellulose mulch or wood pulp fiber shall be used with hydraulic seeding. It shall be applied at the rate of 500 pounds per acre. Drystraw or dry hay shall be applied (at the rate indicated above) after hydraulic seeding.
3. Apply 500 pounds of wood cellulose or wood pulp fiber, which includes a tackifier, shall be used with hydraulic seeding on slopes 3/4:1 or steeper.
4. Sericea lespedeza hay containing mature seed shall be applied at a rate of three tons per acre.
5. Pine straw or pine bark shall be applied at a thickness of 3 inches for bedding purposes. Other suitable materials in sufficient quantity may be used where ornamentals or other ground covers are planted, This is not appropriate for seeded areas.
6. When using temporary erosion control blankets or block sod. mulch is not required.
7. Bituminous treated roving may be applied on planted areas on slopes, in ditches or dry waterways to prevent erosion. Bituminous treated roving shall be applied within 24 hours after an area has been planted. Application rates and materials must meet Georgia Department of Transportation specifications.

Wood cellulose and wood pulp fibers shall not contain germination or growth inhibiting factors. They shall be evenly dispersed when agitated in water. The fibers shall contain a dye to allow visual metering and aid in uniform application during seeding.

Applying Mulch

Straw or hay mulch will be spread uniformly within 24 hours after seeding and/or planting. The mulch may be spread by blower-type spreading equipment, other spreading equipment or by hand. Mulch shall be applied to cover 75% of the soil surface.

Wood cellulose or wood fiber mulch shall be applied uniformly with hydraulic seeding equipment.

Anchoring Mulch

Anchor straw or hay mulch immediately after application by one of the following methods:
1. Emulsified asphalt can be (a) sprayed uniformly onto the mulch as it is ejected from the blower machine or (b) sprayed on the mulch immediately following mulch application when straw or hay is spread by methods other than special blower equipment.

The combination of asphalt emulsion and water shall consist of a homogeneous mixture satisfactory for spraying. The mixture shall consist of 100 gallons of grade SS-1h or CSS-1h emulsified asphalt and 100 gallons of water per ton of mulch.
Care shall be taken at all times to protect state waters, the public, adjacent property, pavements, curbs, sidewalks, and all other structures from asphalt discoloration.
2. Hay and straw mulch shall be pressed into the soil immediately after the mulch is spread, using special packer disks or other suitable tools. Packer disks may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disks shall be dull enough to press the mulch into the ground without cutting it, leaving much of it in an erect position. Mulch shall not be plowed into the soil.
3. Synthetic tackifiers or binders approved by DOT shall be applied in conjunction with or immediately after the mulch is spread. Synthetic tackifiers shall be mixed and applied according to manufacturer's specifications. Refer to Tb - Tackifiers and Binders.
4. Rye or wheat can be included with Fall and Winter plantings to stabilize the mulch. They shall be applied at a rate of one-quarter to one half bushel per acre.
5. Plastic mesh or netting with mesh no larger than one inch by one inch may be needed to anchor straw or hay mulch on unstable soils and concentrated flow areas. These materials shall be installed and anchored according to manufacturer's specifications.

Irrigation

Irrigation shall be applied at a rate that will not cause runoff.

SEEDING RATES FOR PERMANENT SEEDING

SPECIES	RATE Per 1,000 sq.ft.	RATE Per Acre *	PLANTING DATES **
BAHIA	1.4 POUNDS	60 LBS.	1/1-12/31
BERMUDA	0.2 POUND	10 LBS.	2/15-7/1
CENTIPEDE	BLOCK SOD ONLY	BLOCK SOD ONLY	4/1-7/1
LESPEDEZA	1.7 POUNDS	75 LBS.	1/1-12/31
WEEPING LOVE GRASS	0.1 POUND	4 LBS.	2/1-6/15
SWITCH GRASS	0.9 POUND	40 LBS.	3/15-6/1

* Unusual site conditions may require heavier seeding rates
** Seeding dates may need to be altered to fit temperature variations and conditions.

Ds3

DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)
NOT TO SCALE