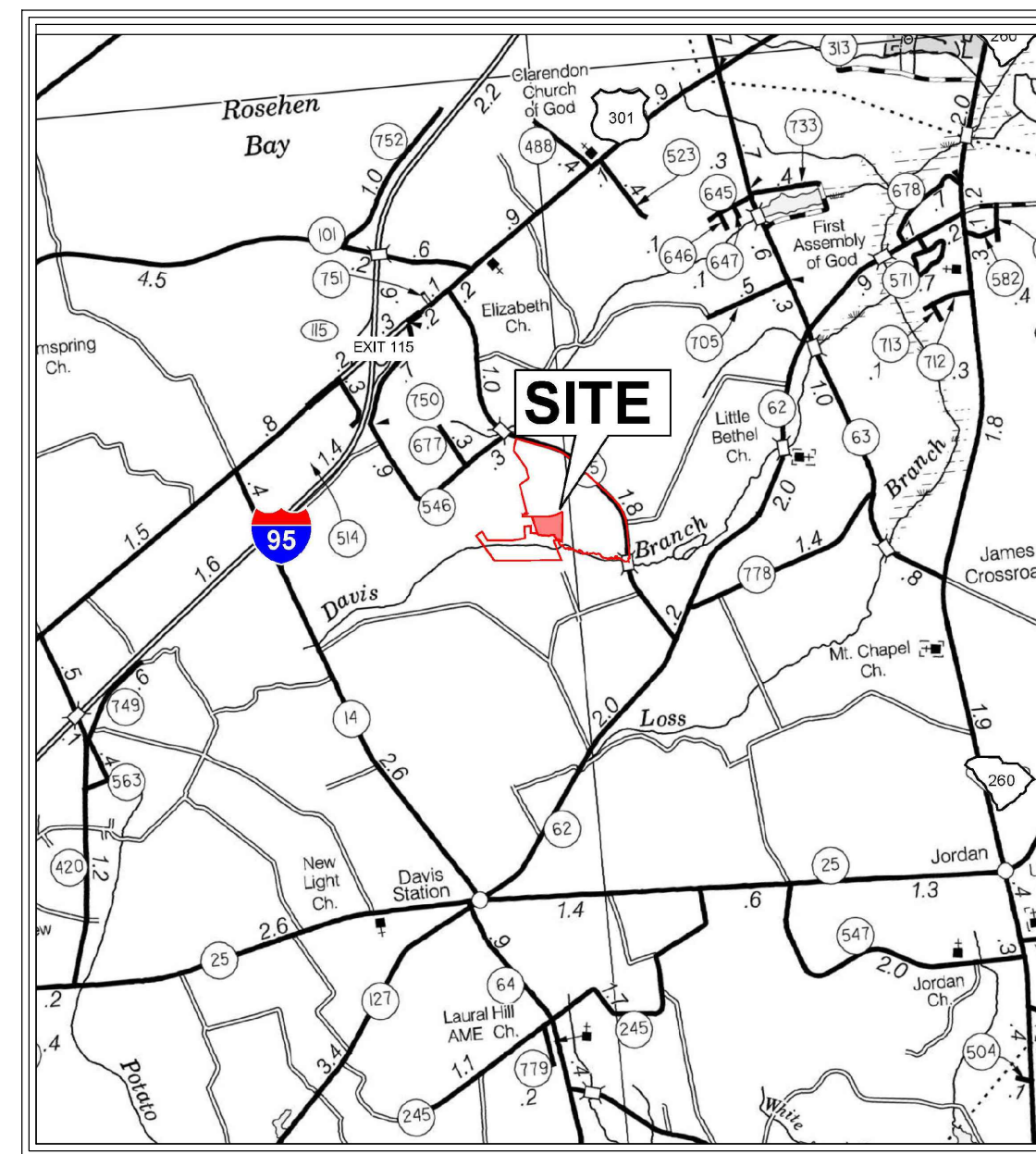


VICINITY MAP
NOT TO SCALE



LOCATION MAP
SCALE 1" = 1 MILE

ROADWAY, WATER, AND WASTEWATER IMPROVEMENTS JO ROGERS JR BOULEVARD CLARENDON COUNTY INDUSTRIAL PARK UNINCORPORATED CLARENDON COUNTY, SOUTH CAROLINA



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C0.0	COVER SHEET
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C2.0	OVERALL IMPROVEMENT PLAN
C3.0	ROADWAY PLAN AND PROFILE - STA 0+00 - STA 12+00
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C6.1	WASTEWATER FORCE MAIN PLAN AND PROFILE - STA 12+00 - STA 24+36
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C8.0	EROSION AND SEDIMENT CONTROL PLAN - PHASE I
C8.1	EROSION AND SEDIMENT CONTROL PLAN - PHASE II
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C9.0	ROADWAY DETAILS
C10.0	WATER MAIN DETAILS
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C14.0	EROSION AND SEDIMENT CONTROL DETAILS (1 OF 2)
C14.1	EROSION AND SEDIMENT CONTROL DETAILS (2 OF 2)
E001	ELECTRICAL SYMBOLS, NOTES, AND DETAILS
ES01	ELECTRICAL PLAN AND POWER RISER DIAGRAM



I have placed my signature and seal on the design documents submitted signifying that I accept responsibility for the design of the system. Further, I certify to the best of my knowledge and belief that the design is consistent with the requirements of Title 48, Chapter 14 of the Code of Laws of SC, 1976 as amended, pursuant to Regulation 72-300 et seq. (if applicable), and in accordance with the terms and conditions of SCR100000.
Signature: _____ Date: _____

NPDES PERMIT INFORMATION

NPDES DISTURBED
AREA = 4.2 ACRES

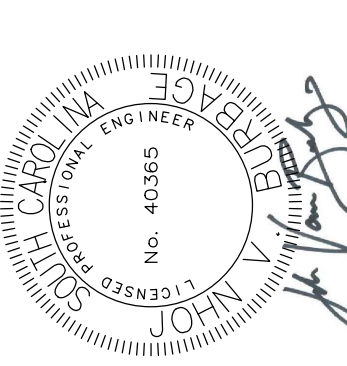
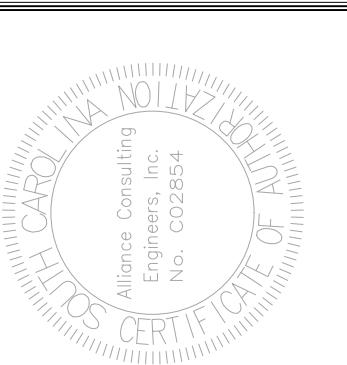
OWNER INFORMATION

DEVELOPER: CLARENDON COUNTY ECONOMIC DEVELOPMENT
CONTACT: MR. GEORGE KOSINSKI, SCED
EXECUTIVE DIRECTOR
ADDRESS: 411 SUNSET DRIVE
CITY, STATE: MANNING, SOUTH CAROLINA 29102
TELEPHONE: (803) 435-8813
EMAIL: GKOSINSKI@CLARENDONCOUNTYGOV.ORG

ENGINEER INFORMATION

COMPANY: ALLIANCE CONSULTING ENGINEERS, INC.
CONTACT: JOHN V. BURBAGE, P.E.
ADDRESS: POST OFFICE BOX 8147
CITY, STATE: COLUMBIA, SOUTH CAROLINA 29202
TELEPHONE: (803) 779-2078
FAX: (803) 779-2079
EMAIL: VBURBAGE@ALLIANCECE.COM

REVISION	DATE
SCDHEC COMMENTS	JUNE 15, 2023
REALIGNMENT	SEPTEMBER 1, 2023



DATE: 9/1/2023
SIGNATURE: _____



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ROADWAY, WATER, AND
WASTEWATER IMPROVEMENTS TO
JO ROGERS JR BOULEVARD TO SERVE
THE CLARENDON COUNTY
INDUSTRIAL PARK
LOCATED IN UNINCORPORATED
CLARENDON COUNTY,
SOUTH CAROLINA

PROJECT	JANUARY 2023
PROJECT No.	22201-0014
DWG NO.	01.1598-D28

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October 30, 2023 - 5:13:06 PM S:\Projects\2220-1-0114 Flory W & WW Improv Spec Bldg No. 8 Clarendon Co. Ind Pk Clarendon Colling/Communication Plant C1.0 - Existing Conditions and General Notes.dwg

LEGEND	
	EXISTING CONTOUR MINOR
	EXISTING CONTOUR MAJOR
	EXISTING PROPERTY LINE
	EXISTING ADJACENT PROPERTY LINE
	EXISTING RIGHT-OF-WAY
	EXISTING EASEMENT
	EXISTING UTILITY LINE
	EXISTING OVERHEAD POWER LINE
	EXISTING WATER MAIN
	EXISTING WASTEWATER GRAVITY LINE

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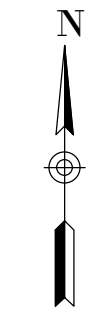
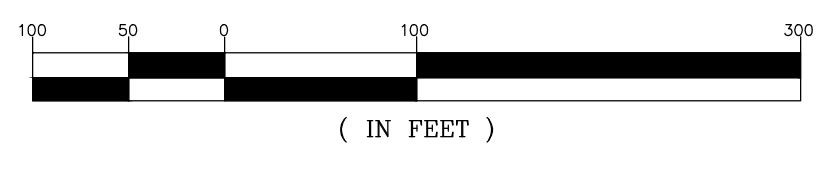
STANDARD NOTES

PERMITS / LICENSES

1. PRIOR TO THE COMMENCEMENT OF ANY WORK WITHIN THE PROJECT SITE, THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS SHALL POSSESS ALL APPLICABLE PERMITTING AND THE OWNER AND ENGINEER WILL BE GIVEN AT LEAST TWENTY-FOUR (24) HOURS NOTICE BEFORE BEGINNING WORK.

PROCEDURES / RESPONSIBILITIES

- ALL WETLANDS SIGNAGE TO BE INSTALLED PER THE APPROVED CONSTRUCTION DRAWINGS PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROGENATING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
- STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.
 - WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
 - WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THE PORTION OF THE SITE.
- ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.
- PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE SEDIMENT BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
- ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
- THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
- RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURES AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 ET SEQ. AND SCR100000.
- TEMPORARY DIVERSION BERMS AND/OR DITCHES SHALL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
- ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN NOT BE MAINTAINED BETWEEN THE DISTURBED AREAS AND ALL WOS. A 30-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.
- LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
- A COPY OF THE OS-SWPPP, INSPECTION RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THE FINAL STABILIZATION IS REACHED.
- INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE BEEN PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.
- MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL AND REPLACE WITHIN ALL GRASSED AND LANDSCAPED AREAS TO A MINIMUM DEPTH OF 6". IF ADDITIONAL TOPSOIL IS REQUIRED TO MEET THE SPECIFICATIONS, THE CONTRACTOR MUST PROVIDE FROM AN OFF-SITE SOURCE.
- MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING. WHEEL WASH WATER, AND OTHER WASH WATERS, WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL TO PROVIDE EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.
- MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPs (SEDIMENT BASIN, FILTER BAG, ETC.)
- THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
 - WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;
 - WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS;
 - FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE, AND
 - SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
- AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE THE CONSTRUCTION SITE.
- IF EXISTING BMPs NEED TO BE MODIFIED OR IF ADDITIONAL BMPs ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SCS WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPs MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
- A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 29.5 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.
- AN AS-BUILT SURVEY(S), SIGNED AND SEALED BY A S.C. LICENSED LAND SURVEYOR OR PROFESSIONAL ENGINEER, SHOULD BE SUBMITTED TO CLARENDON COUNTY FOR DETENTION STRUCTURE(S) ON THIS SITE. THE SURVEY(S) SHOULD SHOW GRADES, CONTOURS, AND DEPTHS FOR ALL STRUCTURE(S) AND SHOULD INCLUDE THE ELEVATIONS AND DIMENSIONS OF ALL OUTLET STRUCTURES, INCLUDING BUT NOT LIMITED TO PIPES, ORIFICES, RISERS, WEIRS, AND EMERGENCY SPILLWAYS.

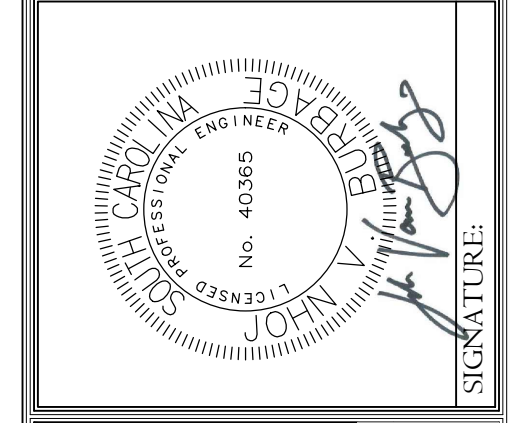


Know what's below.
Call before you dig.
CAUTION-NOTE TO CONTRACTOR

Existing Conditions Plan

REVISION DATE	
▲	SCDHEC COMMENTS
▲	JUNE 15, 2023
▲	REALIGNMENT
▲	SEPTEMBER 1, 2023

APPROVALS	
ENGINEER	JVB
DESIGNER	JVB
TECHNICIAN	JVB
CHECKED BY	DMN
APPROVED	ISM



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Alliance Consulting Engineers, Inc.
P.O. Box 8147
Columbia, SC 29202-8147
Phone: (803) 779-2078 • Fax: (803) 779-2079

EXISTING CONDITIONS AND GENERAL NOTES
DATE: JANUARY 2023
SCALE: 1" = 100'

PROJECT: ROADWAY, WATER, AND WASTEWATER IMPROVEMENTS TO JO ROGERS JR BOULEVARD TO SERVE THE CLARENDON COUNTY INDUSTRIAL PARK LOCATED IN UNINCORPORATED CLARENDON COUNTY, SOUTH CAROLINA

FILE NAME:	C1.0.dwg	SHEET
REFERENCE FILE:	22201-BASE.dwg	
PROJECT NO.:	22201-0014	

DWG NO. 01.1598-D28

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. SO LAW REQUIRES THE CONTRACTOR TO CALL THE UTILITY PROTECTION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE RELOCATION OF ALL THE UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

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November 13, 2023 - 5:58:10 PM S:\Projects\22201-001\4. Rwy W & WW Improv Spec Bldg No. 8 Clarendon Co Ind Pk Clarendon Cdwg\Construction Phase C2.0 - Overall Improvements Plan.dwg

LEGEND	
— PL —	EXISTING PROPERTY LINE
- - - -	EXISTING ADJACENT PROPERTY LINE
- R/W -	EXISTING RIGHT-OF-WAY
- - - -	EXISTING EASEMENT
- - - -	LIMITS OF DISTURBANCE
	PROPOSED PAVEMENT
	PROPOSED DITCH FLOW LINE
	PROPOSED 16-INCH WATER MAIN
	PROPOSED 6-INCH GRAVITY MAIN
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	PROPOSED FLARED END SECTION

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 CONTACT: MR. GEORGE KOSINSKI, SCCED
 EXECUTIVE DIRECTOR
 ADDRESS: 411 SUNSET DRIVE
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APPROVALS	ENGINEER	DESIGNER	TECHNICIAN	CHECKED BY	APPROVED
	JVB	JVB	JVB	JVB	JVB

ALLIANCE CONSULTING ENGINEERS, INC.
 No. 40264
 PROFESSIONAL ENGINEER

JOHN V. BURBAGE
 No. 40265
 PROFESSIONAL ENGINEER

DATE: 9/1/2023
 SIGNATURE:

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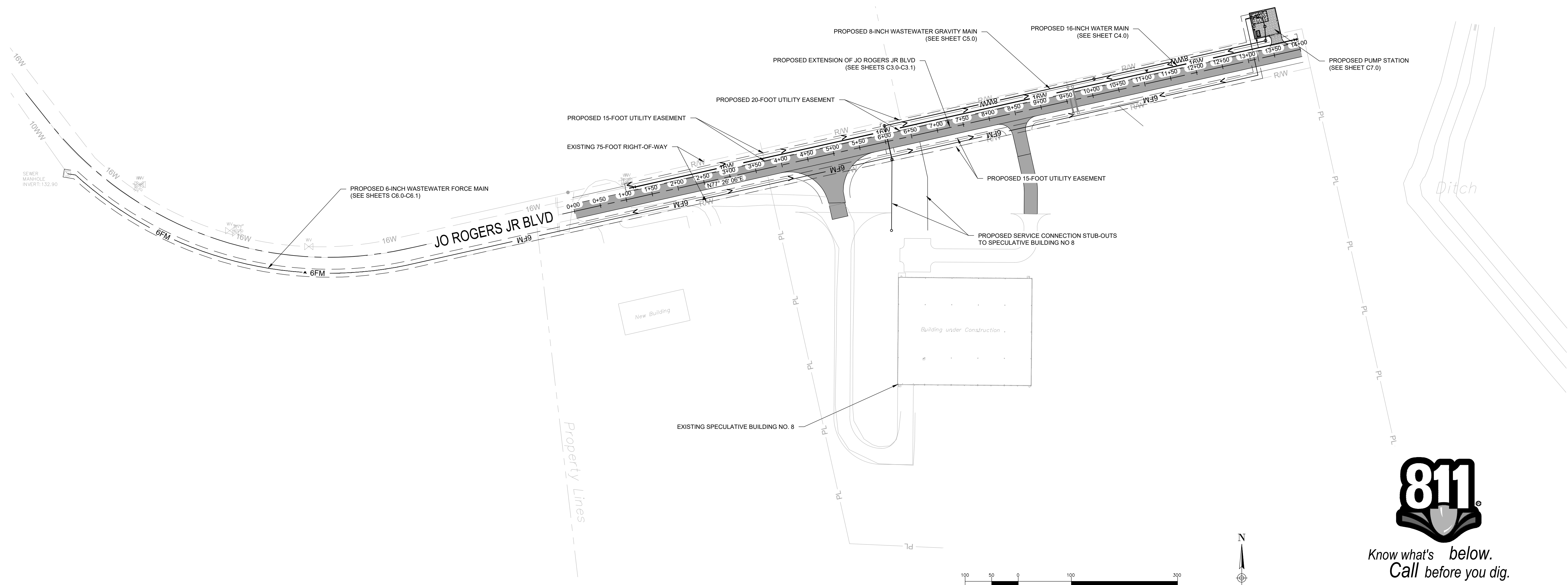
OVERALL IMPROVEMENTS PLAN

DATE: JANUARY 2023
 SCALE: 1" = 100'

PROJECT: ROADWAY, WATER, AND WASTEWATER IMPROVEMENTS TO JO ROGERS JR BOULEVARD TO SERVE THE CLARENDON COUNTY INDUSTRIAL PARK LOCATED IN UNINCORPORATED CLARENDON COUNTY, SOUTH CAROLINA

FILE NAME:	C2.0.dwg	SHEET
REFERENCE FILE:	22201-BASE.dwg	
PROJECT NO.:	22201-0014	

DWG NO. 01.1598-D28



Overall Improvements Plan



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November 13, 2023 - 6:00:02 PM S:\Projects\22201-001-Roadway\1-WW\Improv-Spec-Blg\No. 8-Clarendon Co\Incl\PK-Clarendon\Clarendon\Construction\Plan\CS.0 - Roadway\PLPR.dwg

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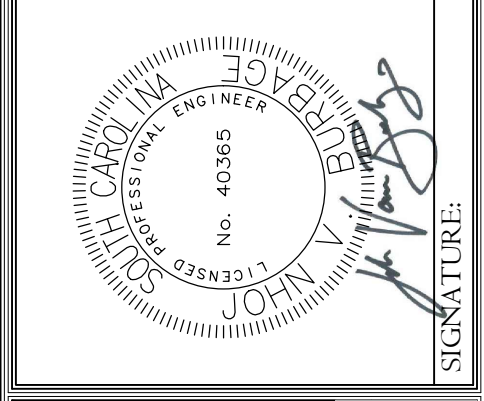
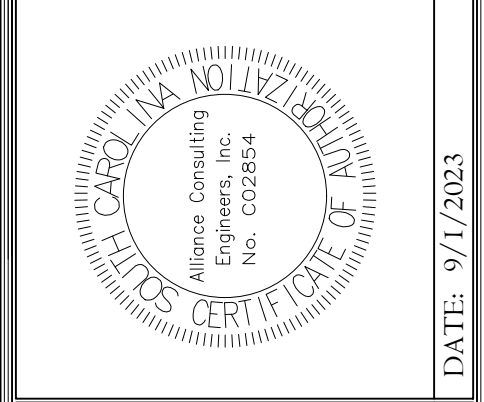
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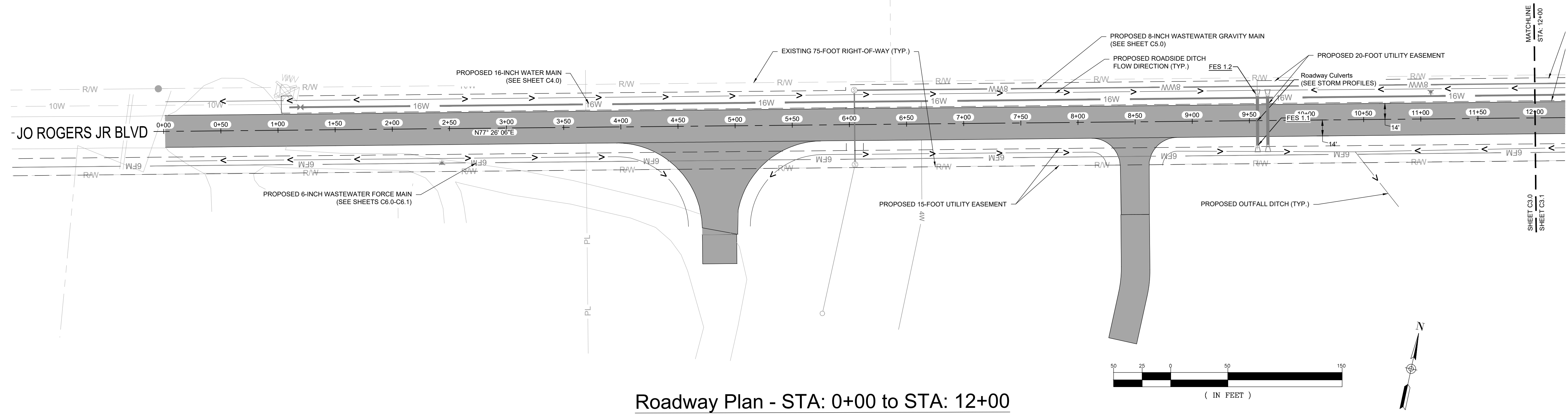
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 3. AS-BUILT TOPOGRAPHIC SURVEY COMPLETED BY A LICENSED SURVEYOR TO BE PROVIDED BY CONTRACTOR TO ALLIANCE CONSULTING ENGINEERS, INC. UPON PROJECT COMPLETION.

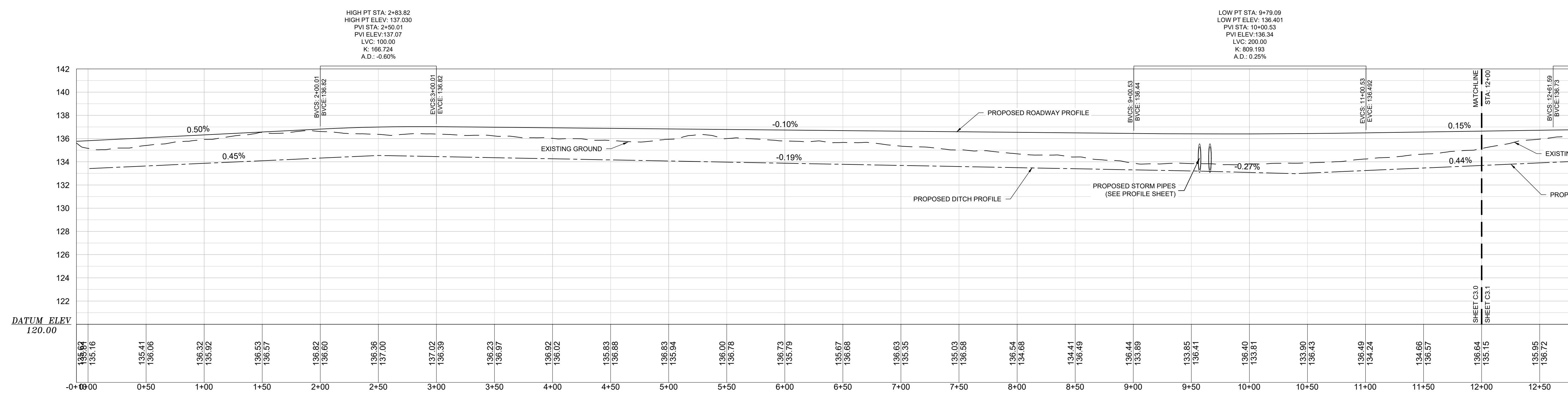
REVISION DATE	
▲	SCD/HEC COMMENTS
▲	JUNE 15, 2023
▲	REALIGNMENT
▲	SEPTEMBER 1, 2023



ALLIANCE CONSULTING ENGINEERS
 Alliance Consulting Engineers, Inc.
 P.O. Box 8147
 Columbia, South Carolina 29202-8147
 Phone: (803) 779-2078 • Fax: (803) 779-2079



Roadway Plan - STA: 0+00 to STA: 12+00



Roadway Profile - STA: 0+00 to STA: 12+00

Horiz: 1" = 50' Vert: 1" = 5'

811
 Know what's below.
 Call before you dig.

CAUTION-NOTE TO CONTRACTOR
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ROADWAY PLAN AND PROFILE
 STA: 0+00 - 12+00

PROJECT: ROADWAY, WATER, AND WASTEWATER IMPROVEMENTS TO JO ROGERS JR BOULEVARD TO SERVE THE CLARENDON COUNTY INDUSTRIAL PARK LOCATED IN UNINCORPORATED CLARENDON COUNTY, SOUTH CAROLINA

FILE NAME:	C3.0.dwg	SHEET
REFERENCE FILE:	22201-BASE.dwg	
PROJECT NO.:	22201-0014	

DWG NO. 01.1598-D28

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November 13, 2023 - 6:02:14 PM S:\Projects\22201-0014_Roadway\W & WW\Improvement\Spec\Blg\No. 8 Clarendon Co Inlet Pk Clarendon County\Construction\Plans\C3.0 - Roadway\PLPR.dwg

LEGEND	
	EXISTING PROPERTY LINE
	EXISTING ADJACENT PROPERTY LINE
	EXISTING RIGHT-OF-WAY
	EXISTING EASEMENT
	LIMITS OF DISTURBANCE
	PROPOSED PAVEMENT
	PROPOSED DITCH FLOW LINE
	PROPOSED 16-INCH WATER MAIN
	PROPOSED 6-INCH GRAVITY MAIN
	PROPOSED 6-INCH FORCE MAIN
	PROPOSED STORM DRAINAGE PIPE
	PROPOSED FLARED END SECTION

OWNER INFORMATION
 DEVELOPER: CLARENDON COUNTY ECONOMIC DEVELOPMENT
 CONTACT: MR. GEORGE KOSINSKI, SCED EXECUTIVE DIRECTOR
 ADDRESS: 411 SUNSET DRIVE
 CITY, STATE: MANNING, SOUTH CAROLINA 29102
 TELEPHONE: (803) 435-8813
 EMAIL: GKOSINSKI@CLARENDONCOUNTYGOV.ORG

ENGINEER INFORMATION
 COMPANY: ALLIANCE CONSULTING ENGINEERS, INC.
 CONTACT: JOHN V. BURBAGE, P.E.
 ADDRESS: POST OFFICE BOX 8147
 CITY, STATE: COLUMBIA, SOUTH CAROLINA 29202
 TELEPHONE: (803) 779-2078
 FAX: (803) 779-2079
 EMAIL: VBURBAGE@ALLIANCECE.COM

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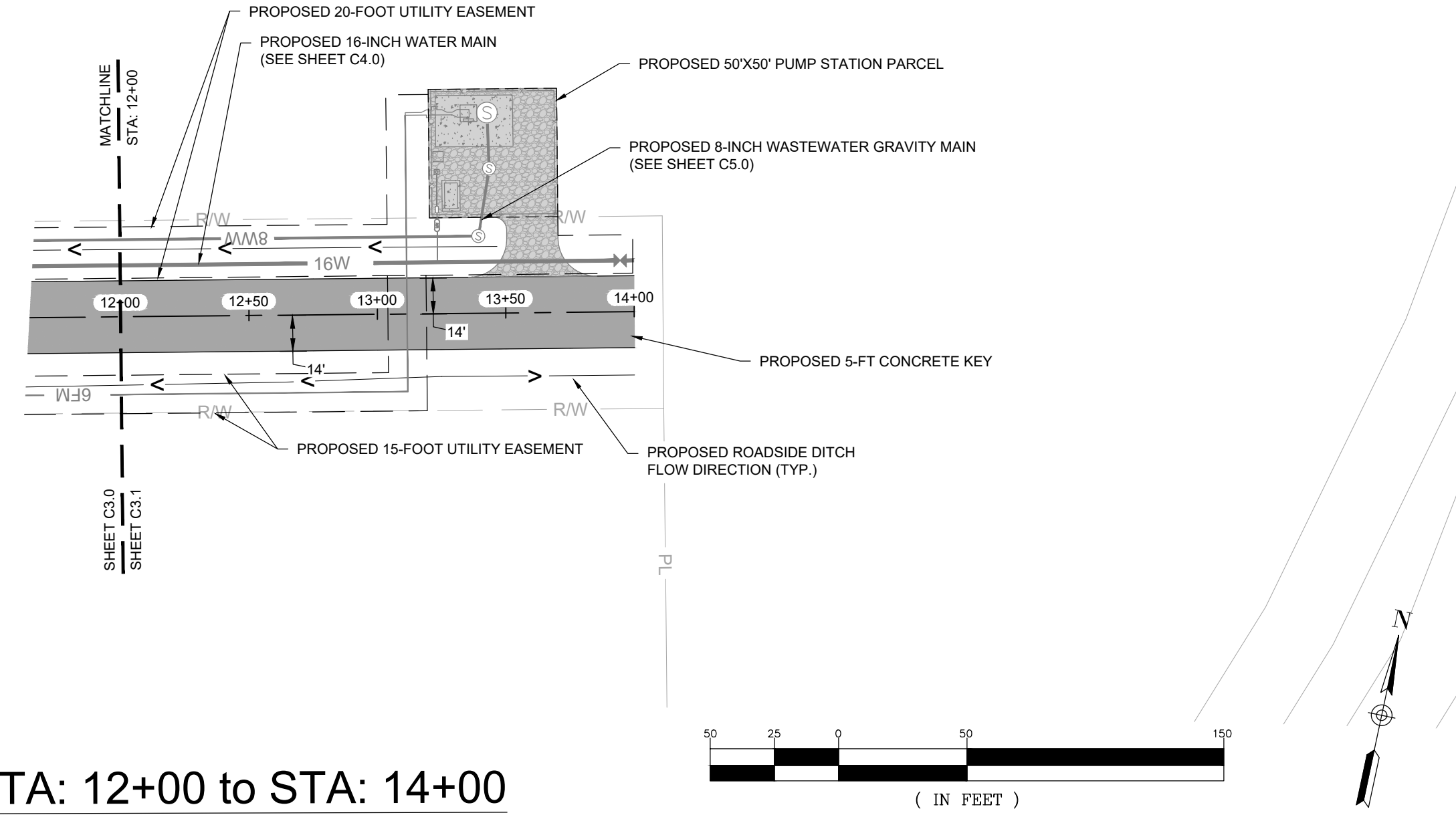
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▲	JUNE 15, 2023
▲	REALIGNMENT
▲	SEPTEMBER 1, 2023

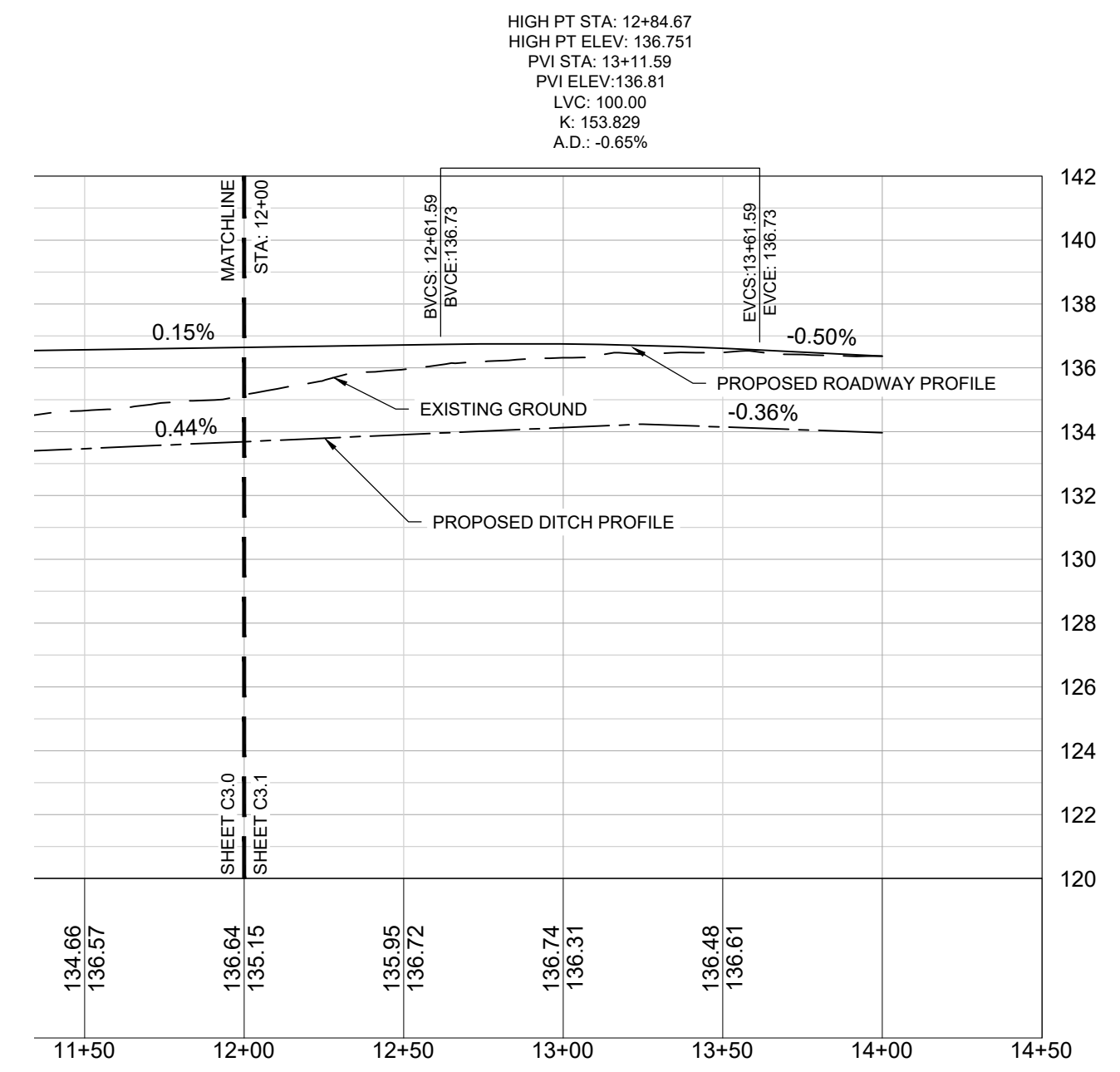
APPROVALS	ENGINEER	DESIGNER	TECHNICIAN	CHECKED BY	APPROVED
	JVB	JVB	JVB	JVB	JVB

DATE: 9/1/2023

SIGNATURE: *[Signature]*



Roadway Plan - STA: 12+00 to STA: 14+00



Roadway Profile - STA: 12+00 to STA: 14+00

Horiz: 1" = 50' Vert: 1" = 5'



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PROJECT: ROADWAY, WATER, AND WASTEWATER IMPROVEMENTS TO JO ROGERS JR BOULEVARD TO SERVE THE CLARENDON COUNTY INDUSTRIAL PARK LOCATED IN UNINCORPORATED CLARENDON COUNTY, SOUTH CAROLINA

SHEET: ROADWAY PLAN AND PROFILE STA: 12+00 - 14+00

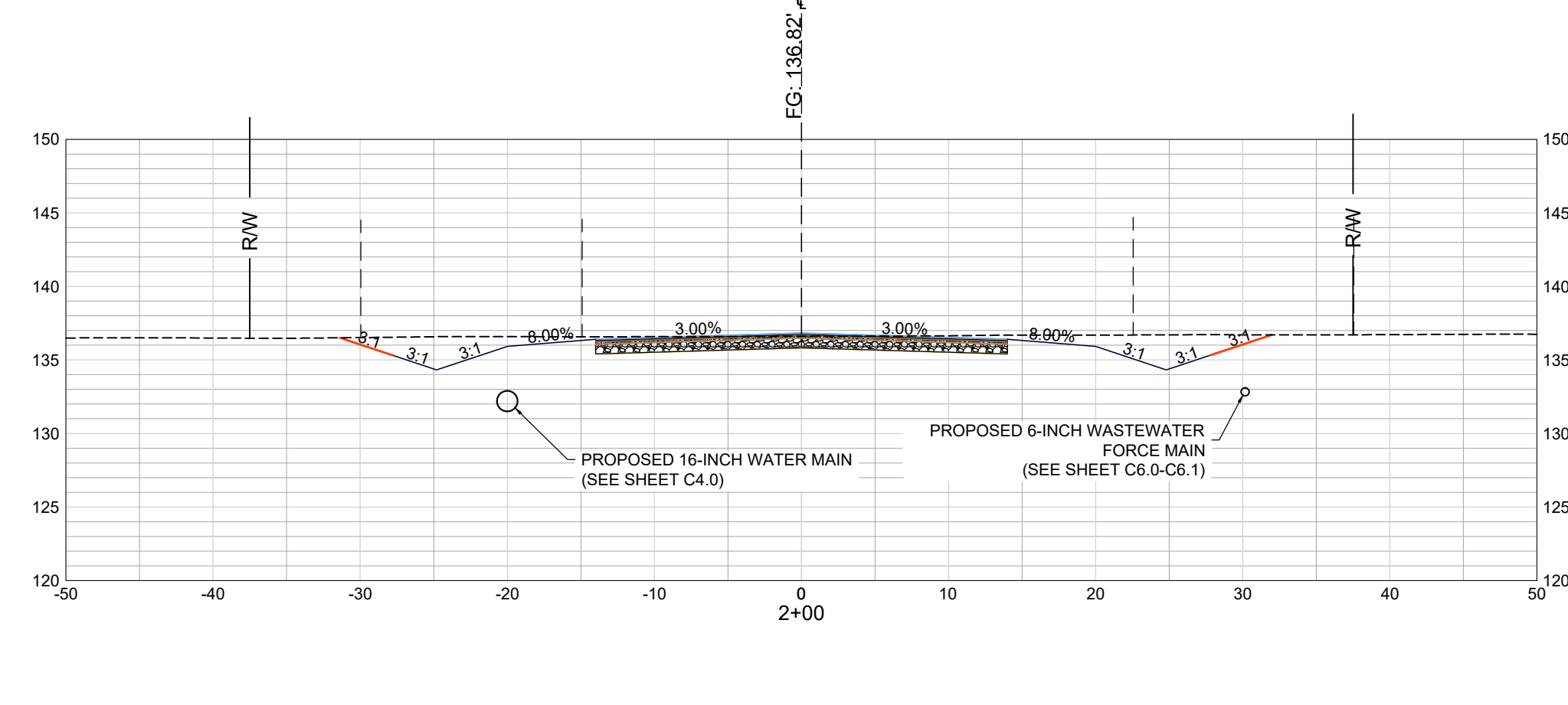
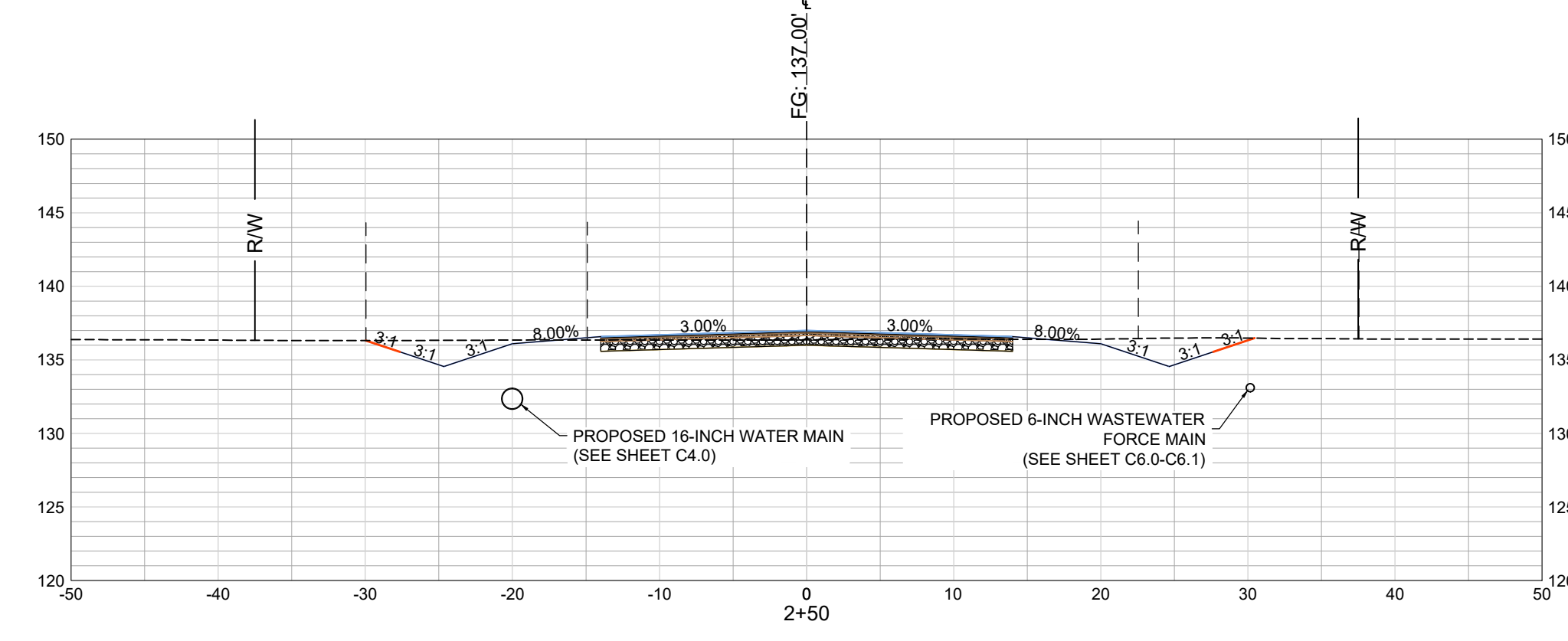
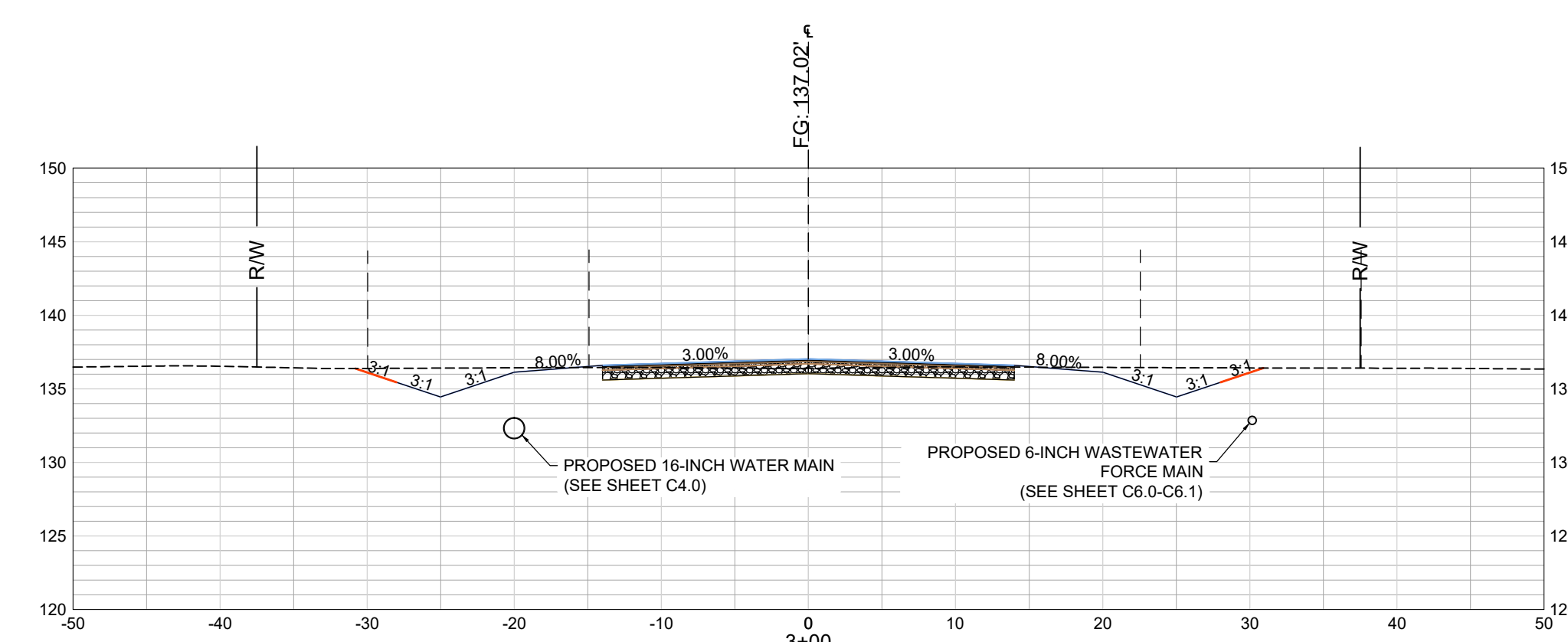
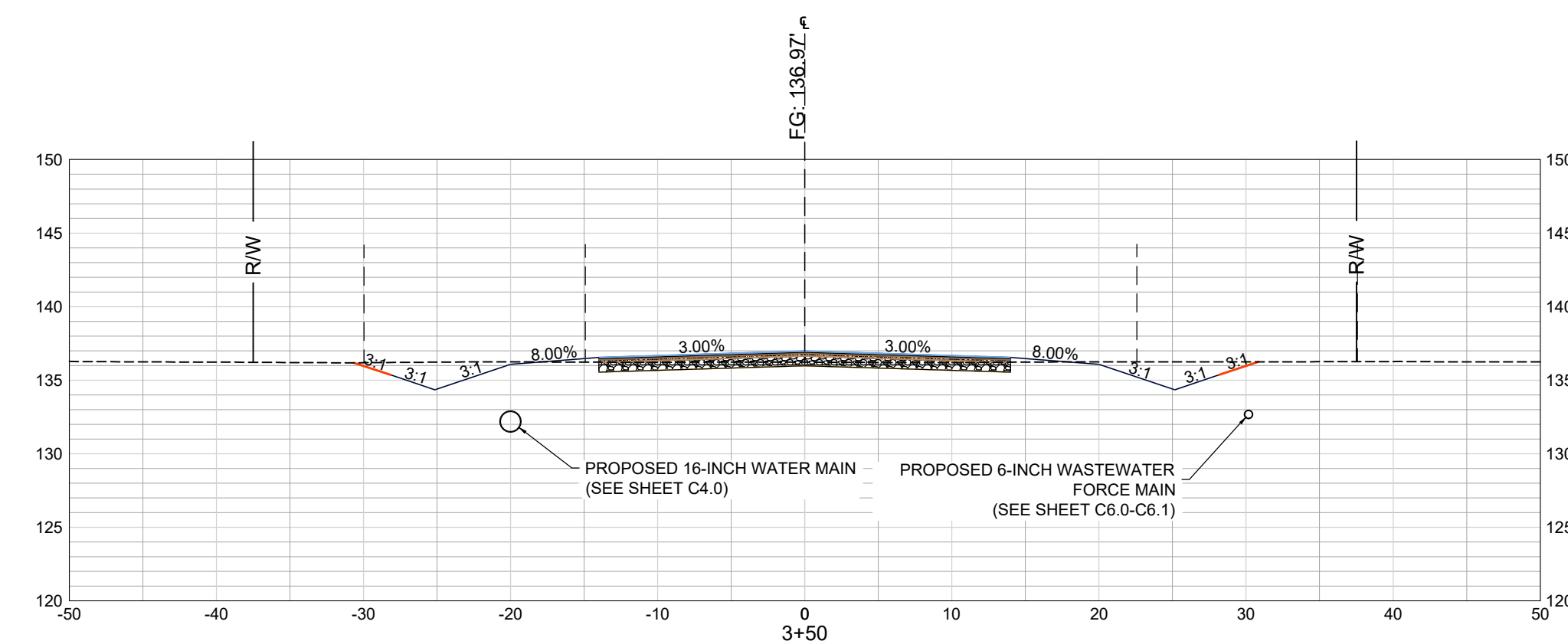
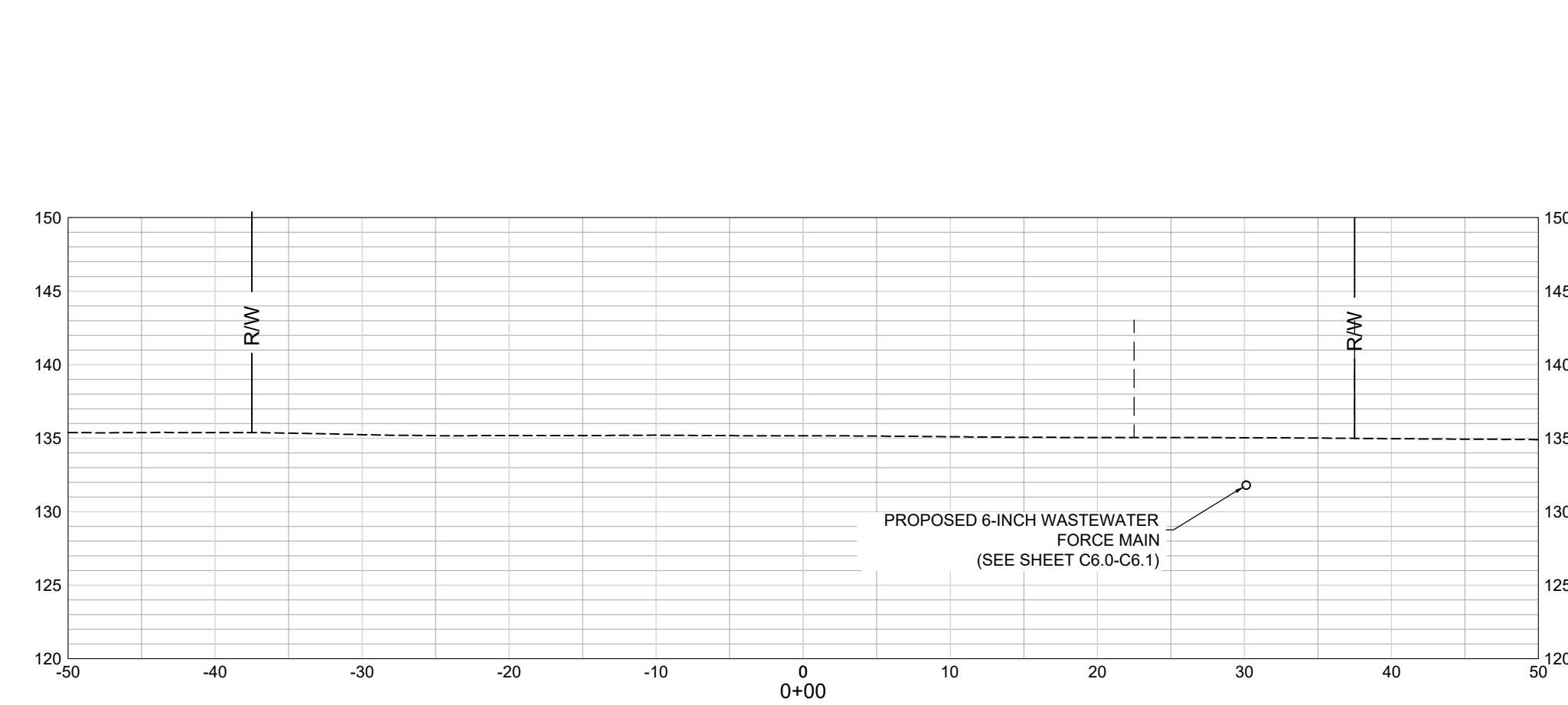
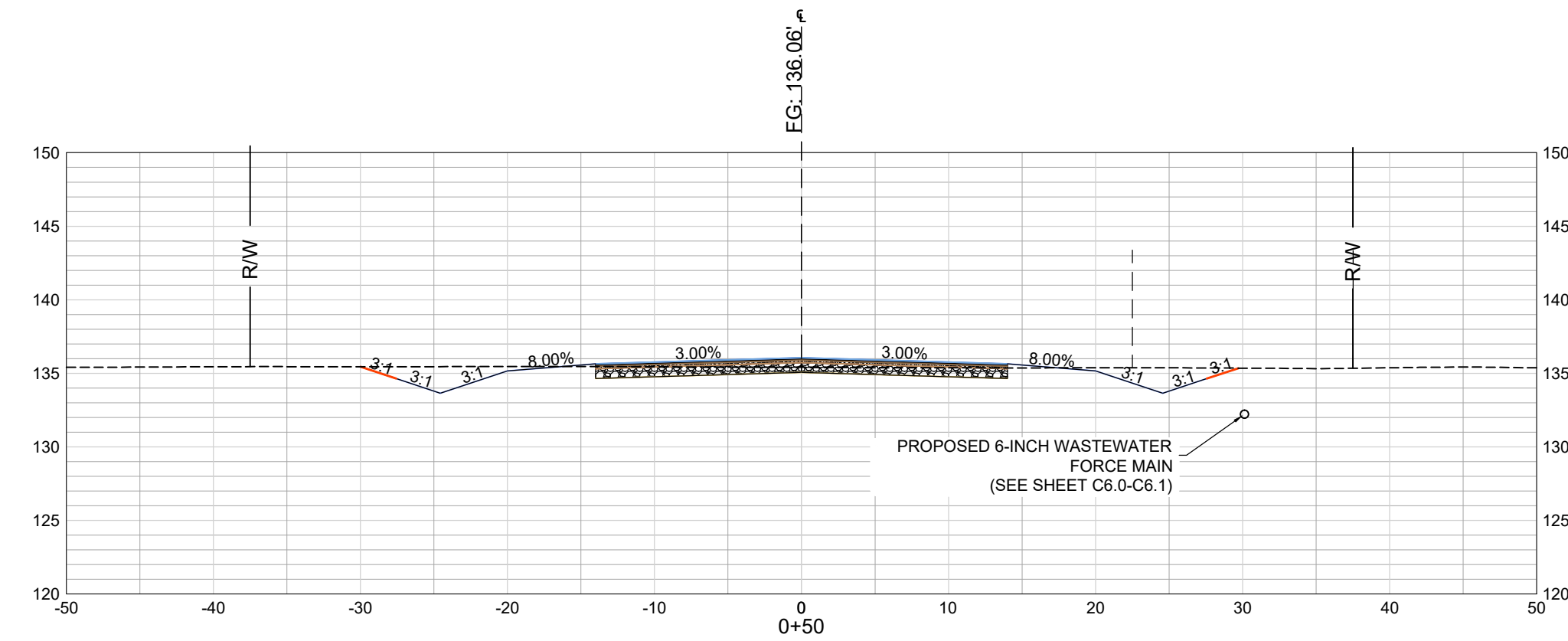
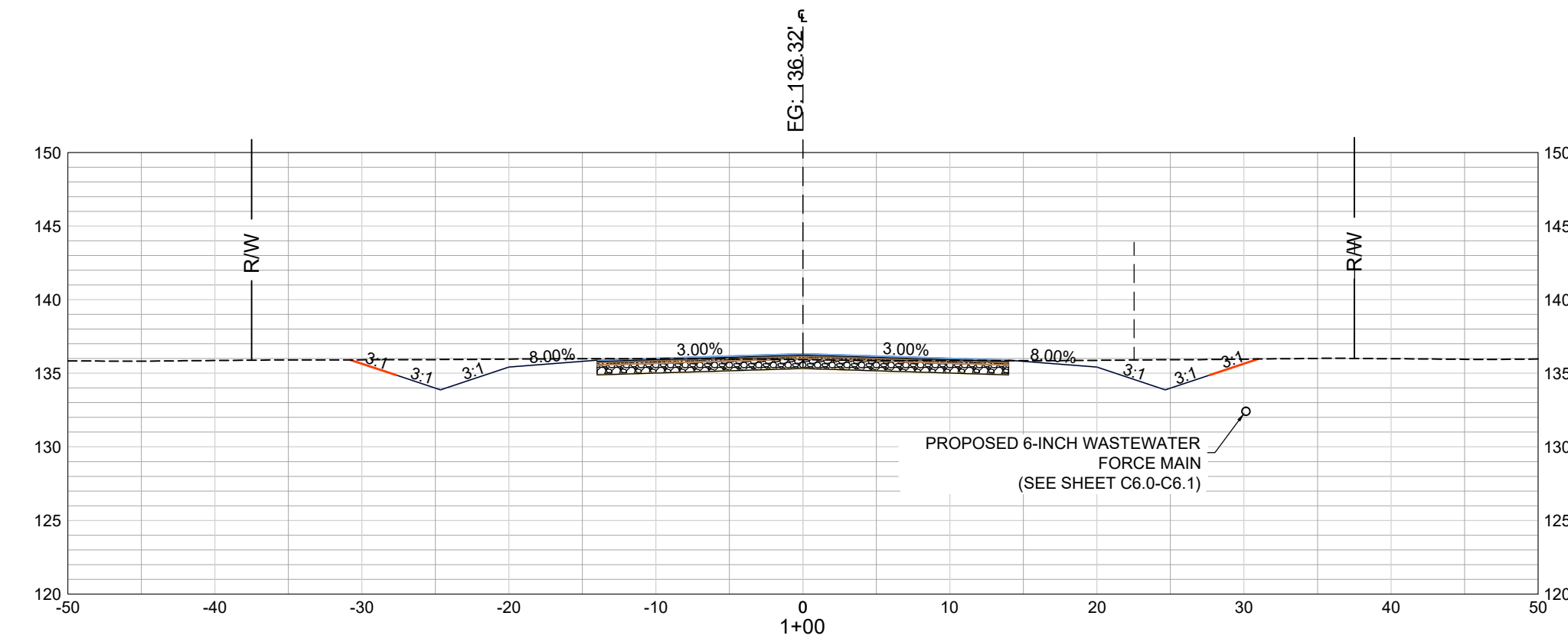
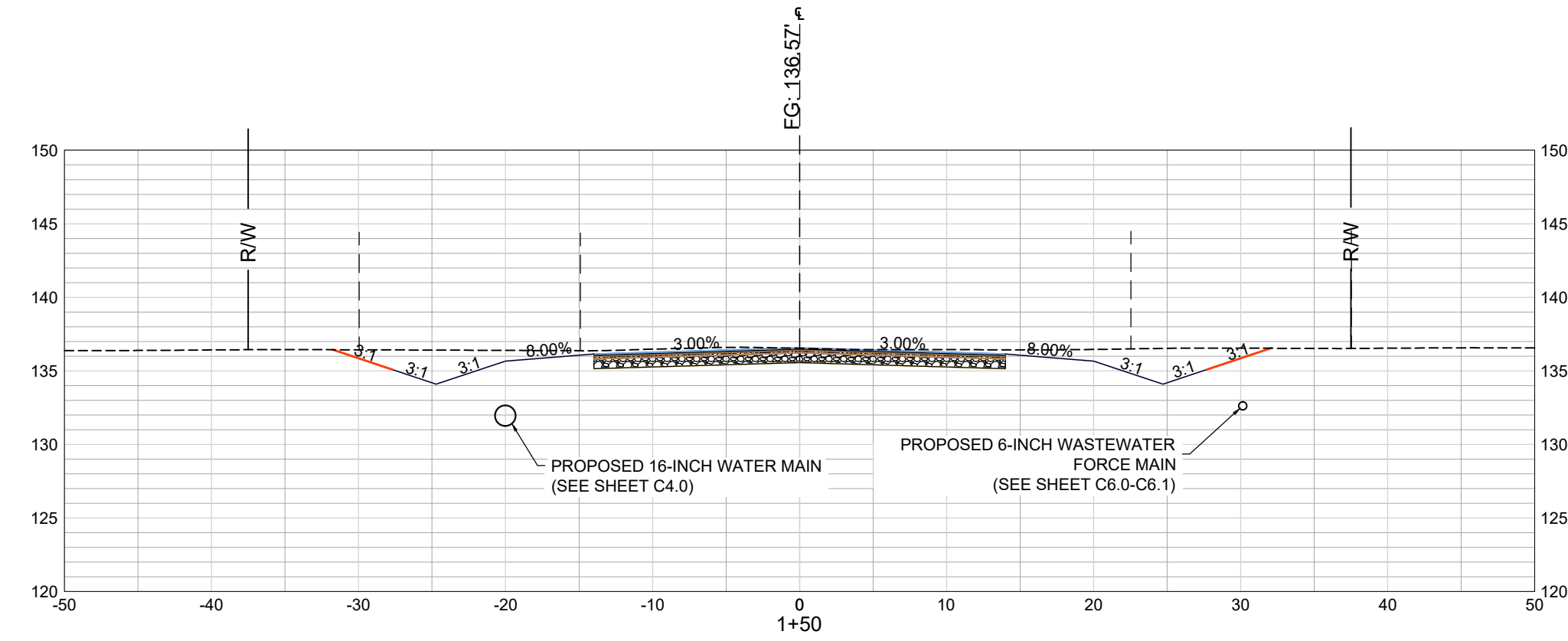
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FILE NAME:	C3.0.dwg
REFERENCE FILE:	22201-BASE.dwg
PROJECT NO.:	22201-0014

SHEET	C3.1
DWG NO.	01.1598-D28

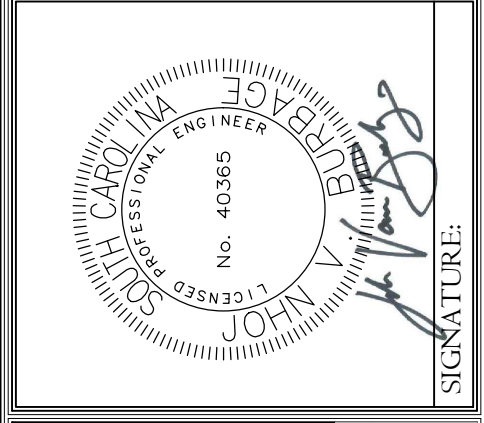
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November 13, 2023 - 6:03:03 PM S:\Projects\22201-0014\Raw W & WW Improv Spec\Blg\No. 8 Clarendon Co Ind Pk Clarendon Cdwg\Construction\Phase C3.3 - Roadway Cross Sections.dwg



REVISION DATE	▲
SCDHEC COMMENTS	▲
JUNE 15, 2023	▲
REALIGNMENT	▲
SEPTEMBER 1, 2023	▲

APPROVALS	ENGINEER	DESIGNER	TECHNICIAN	CHECKED BY	APPROVED
	JVB	JVB	JVB	JVB	JVB



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Alliance Consulting Engineers, Inc.
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 Columbia, South Carolina 29202-8147
 Phone: (803) 779-2078 • Fax: (803) 779-2079

ROADWAY CROSS SECTIONS
 STA 0+00 - STA 3+50

DATE: JANUARY 2023 SCALE: 1" = 10'

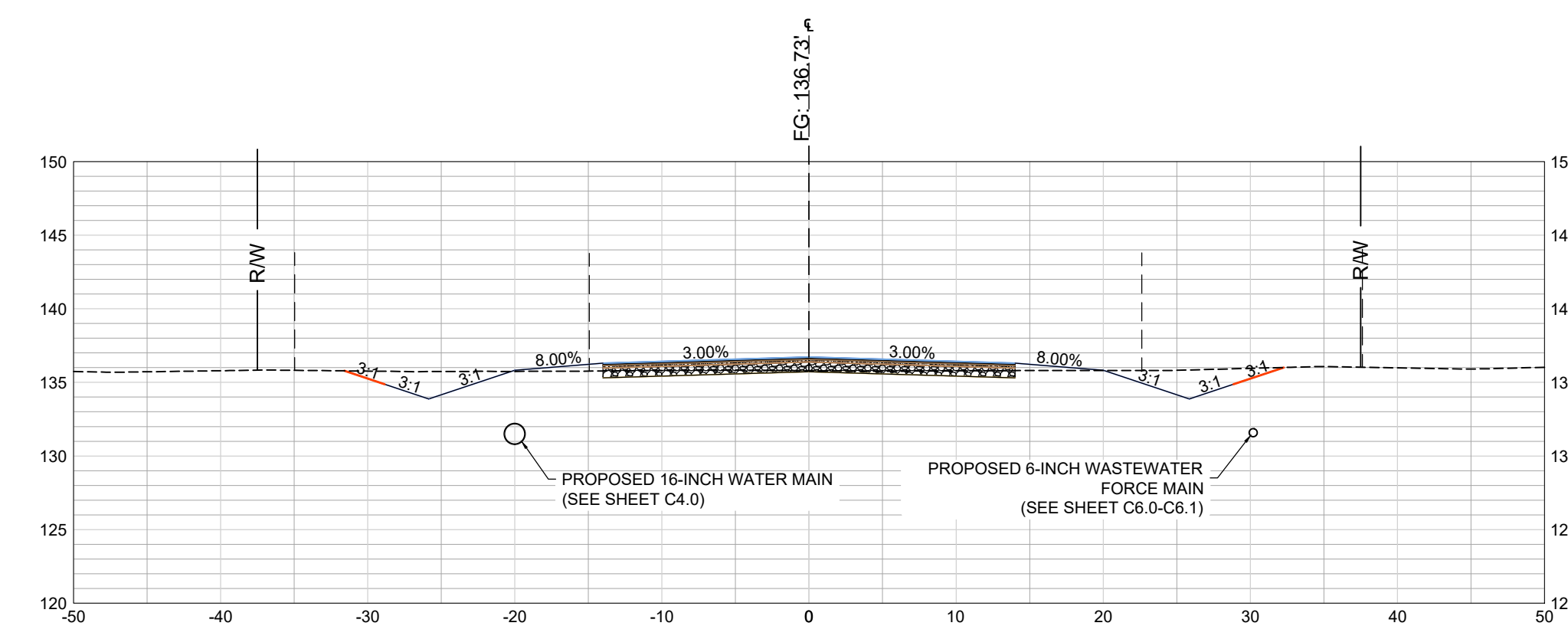
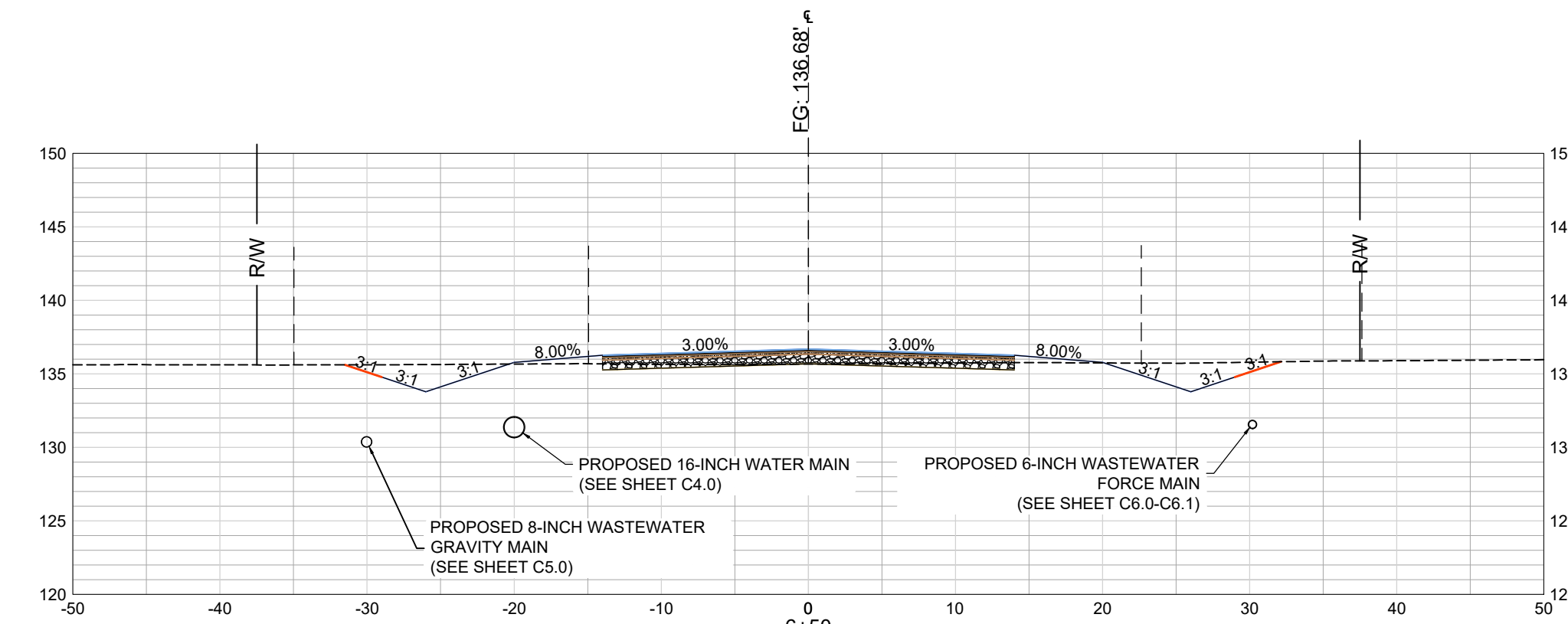
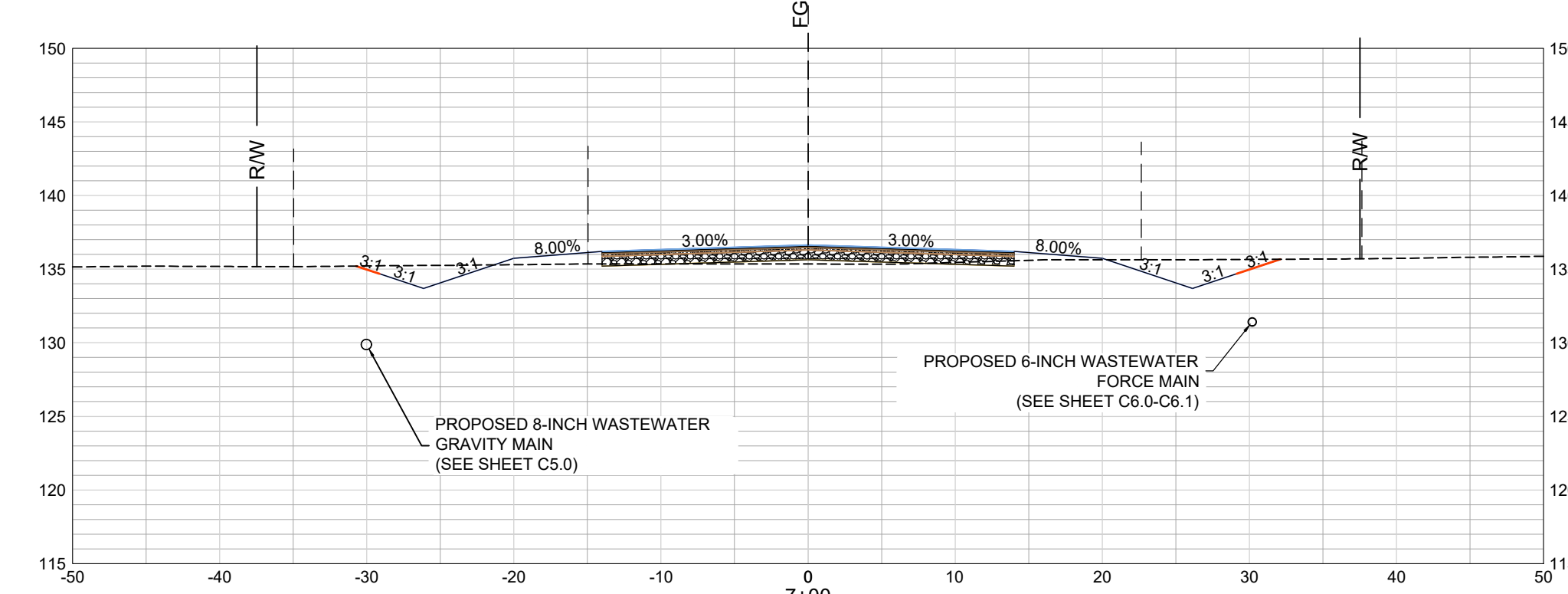
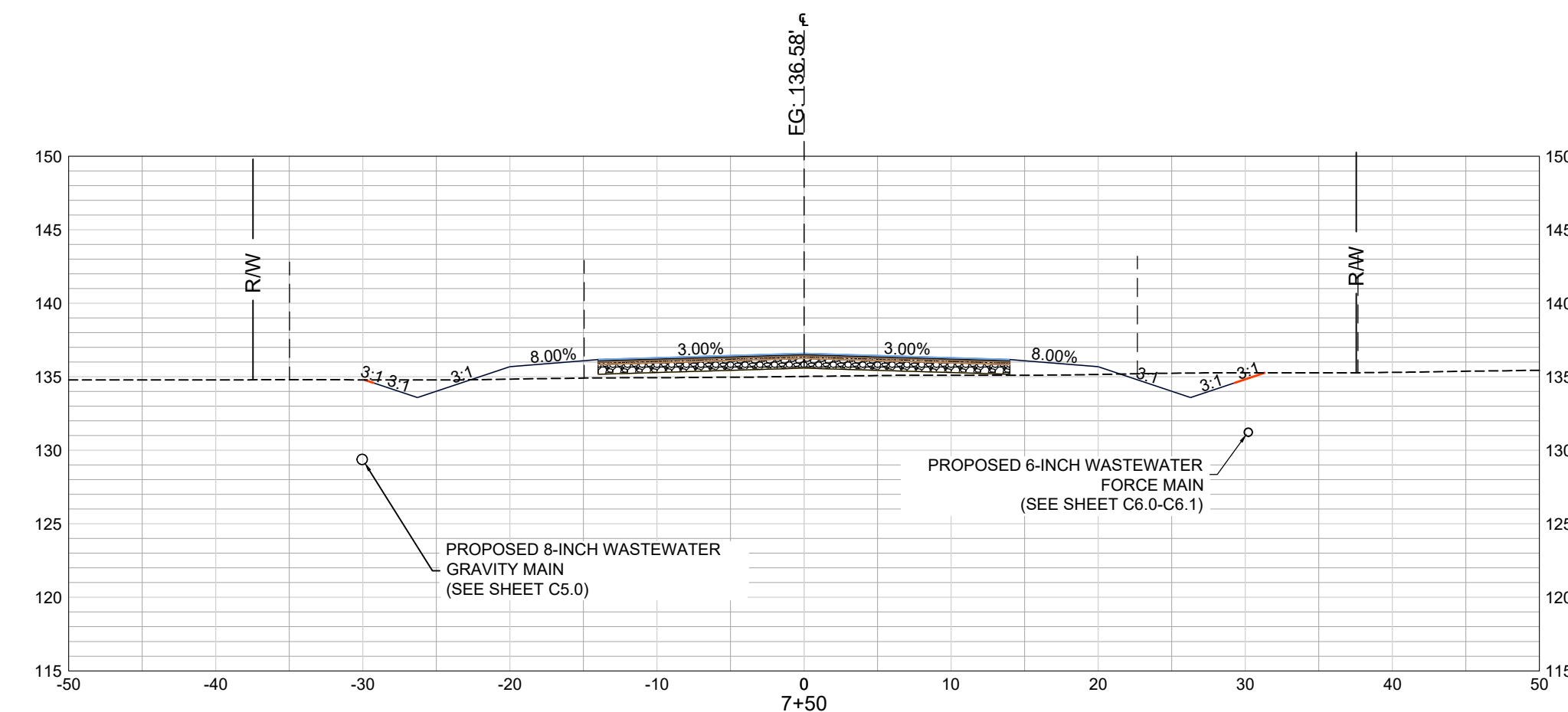
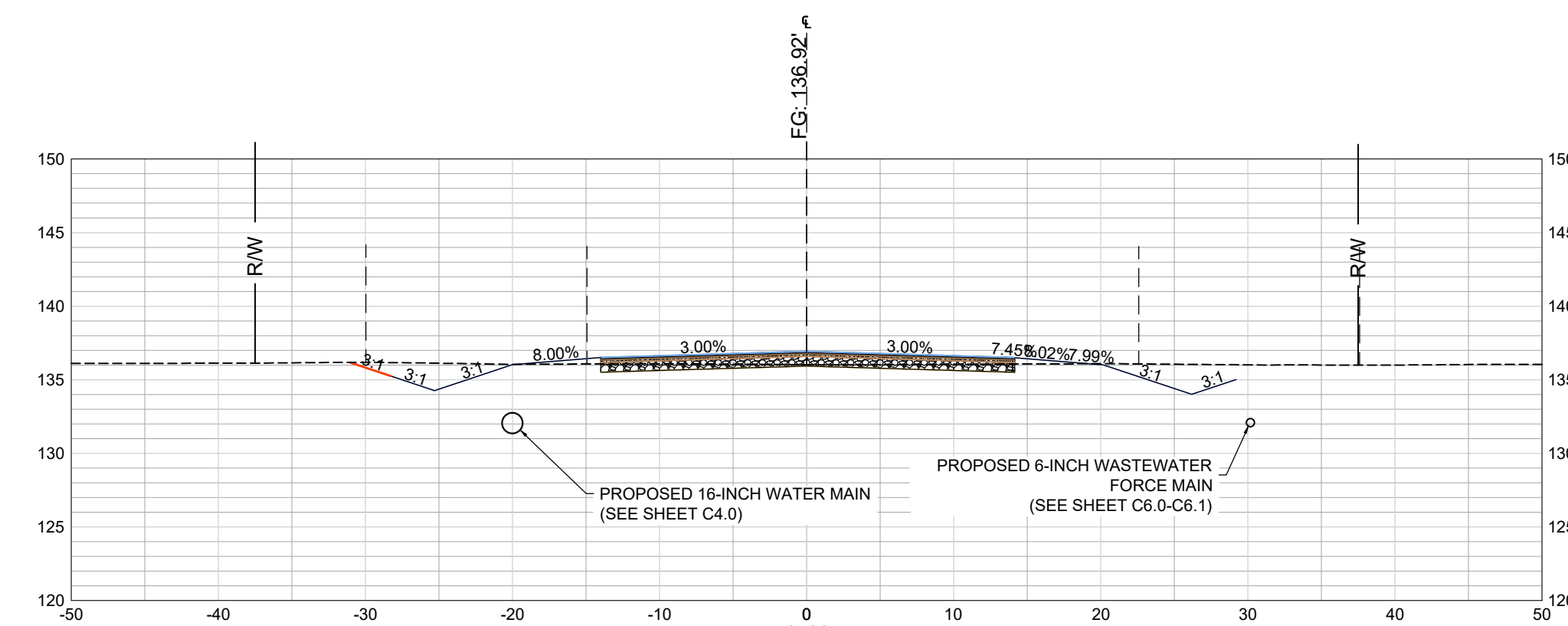
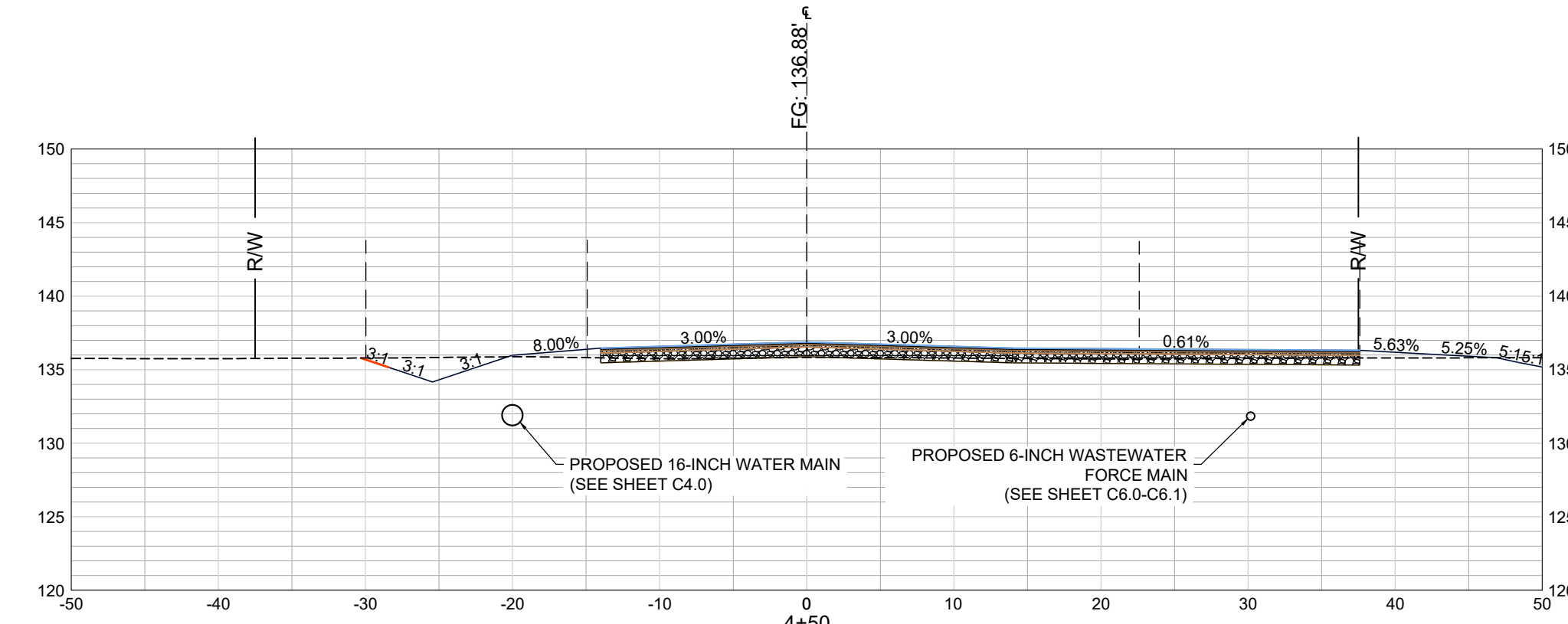
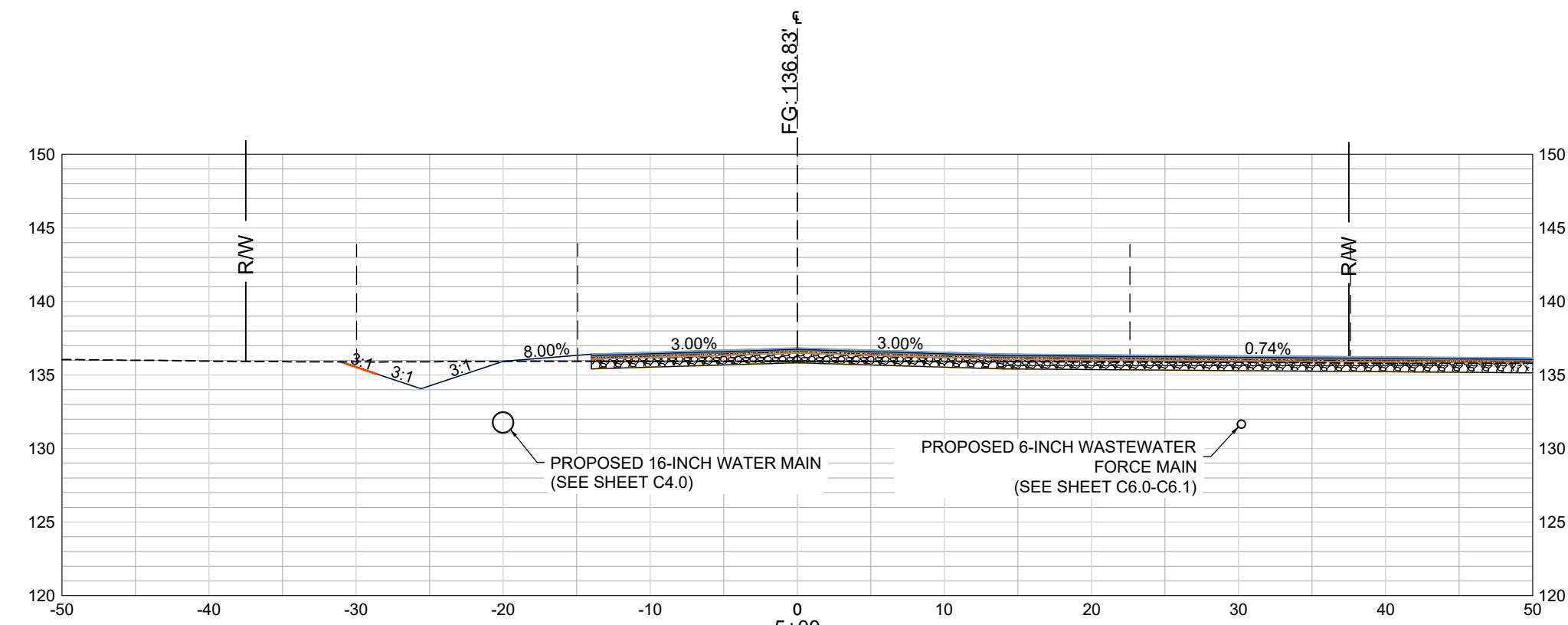
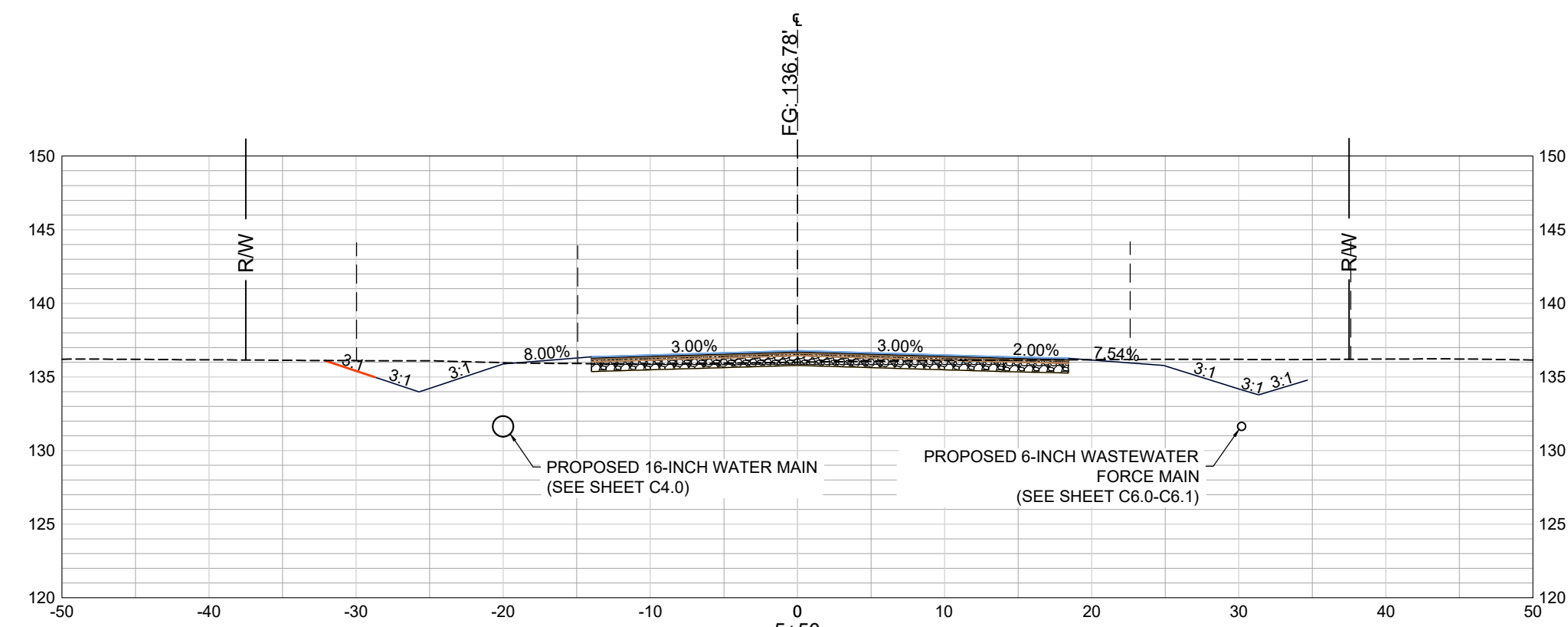
PROJECT: ROADWAY, WATER, AND WASTEWATER IMPROVEMENTS TO JO ROGERS JR BOULEVARD TO SERVE THE CLARENDON COUNTY INDUSTRIAL PARK LOCATED IN UNINCORPORATED CLARENDON COUNTY, SOUTH CAROLINA

FILE NAME:	C3.3.dwg
REFERENCE FILE:	22201-BASE.dwg
PROJECT NO.:	22201-0014

DWG NO. 01.1598-D28

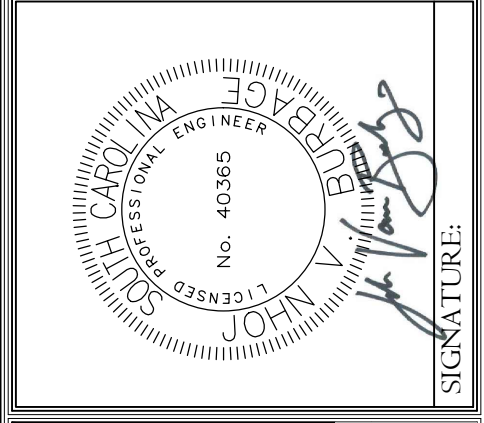
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November 13, 2023 - 6:03:38 PM S:\Projects\22201-0014\Railway W & WW Improv Spec Bldg No. 8 Clarendon Co Ind Pk Clarendon County\Construction Plans\C3.3 - Roadway Cross Sections.dwg



REVISION DATE	
SCDHEC COMMENTS	
JUNE 15, 2023	
REALIGNMENT	
SEPTEMBER 1, 2023	

APPROVALS	ENGINEER	DESIGNER	TECHNICIAN	CHECKED BY	APPROVED
	JVB	JVB	JVB	JVB	JVB



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 Alliance Consulting Engineers, Inc.
 P.O. Box 829, Columbia, SC 29202-8147
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ROADWAY CROSS SECTIONS
 STA 4+00 - STA 7+50
 DATE: JANUARY 2023
 SCALE: 1" = 10'

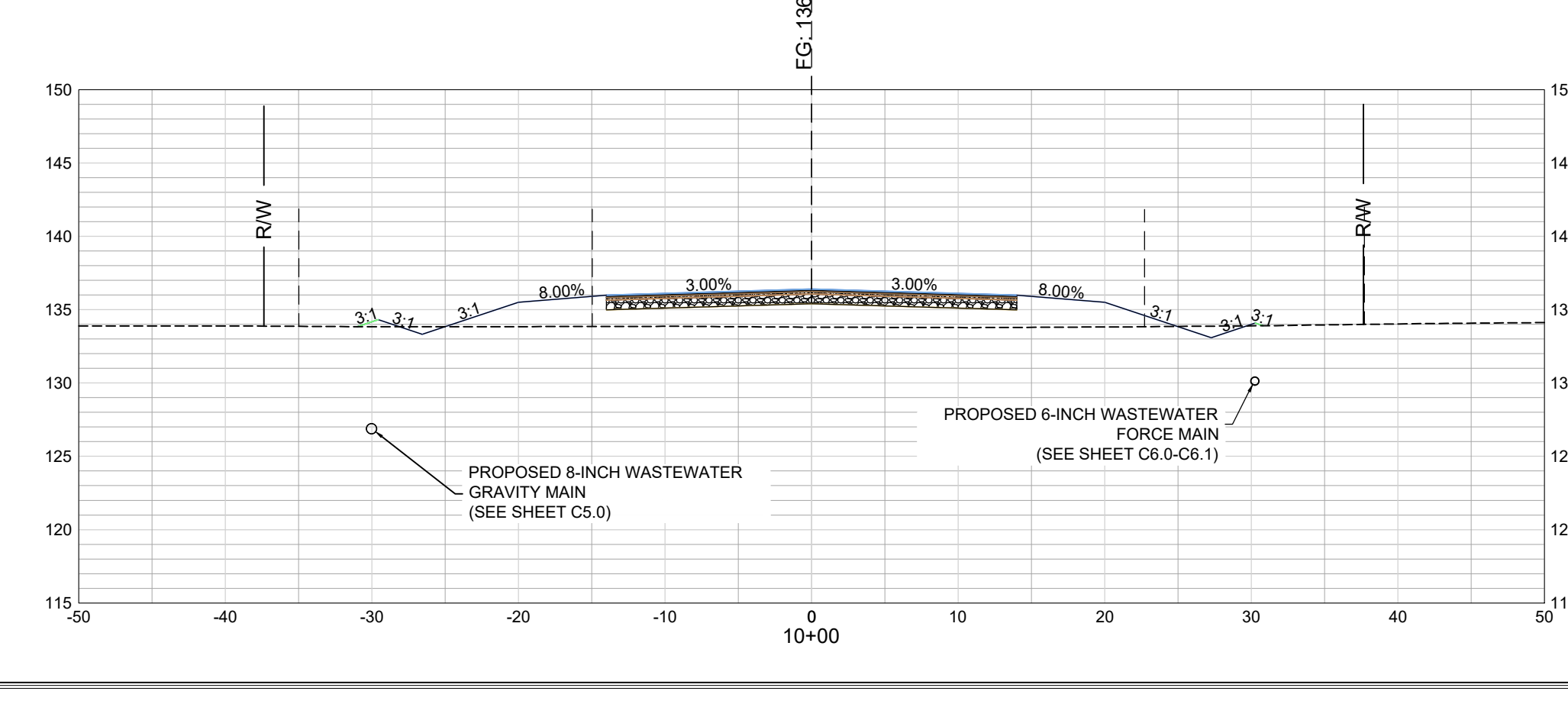
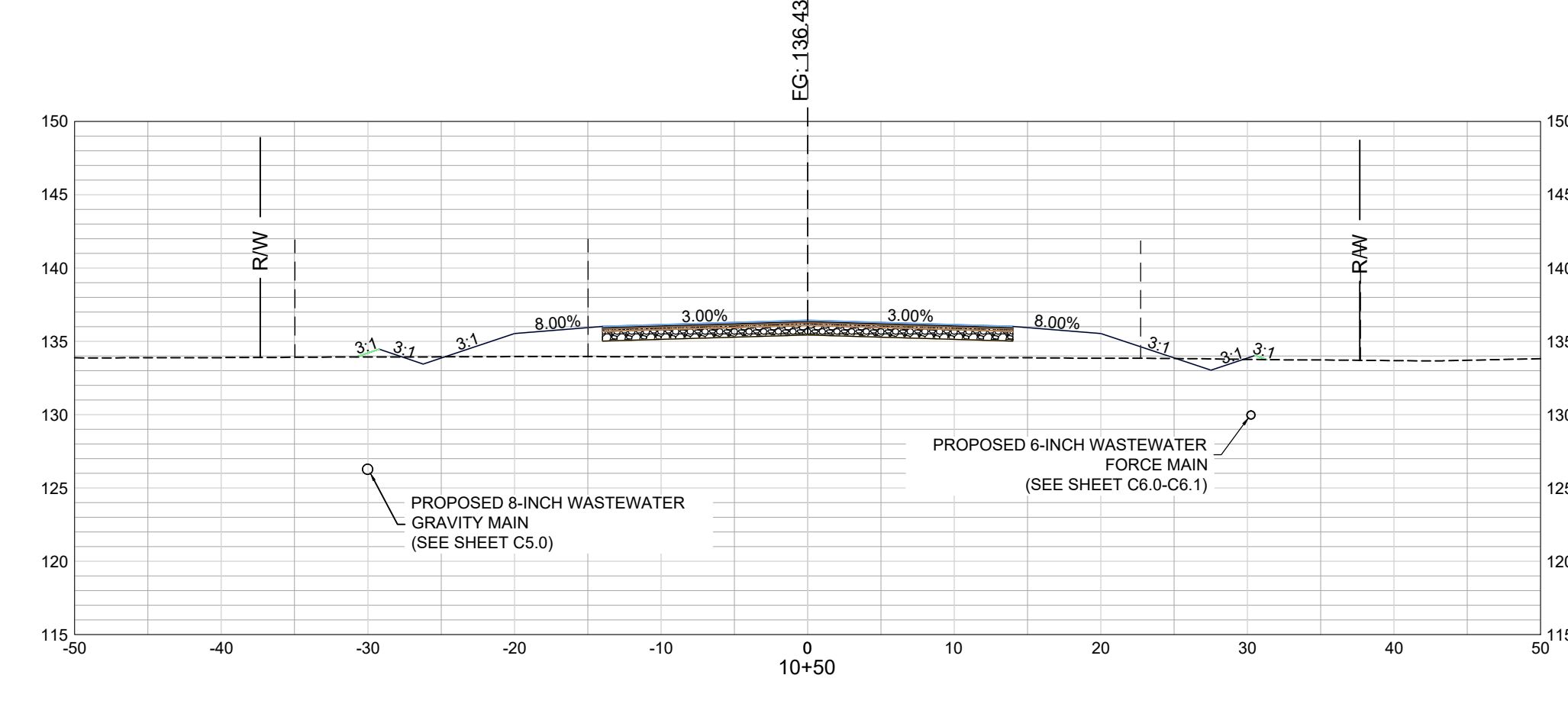
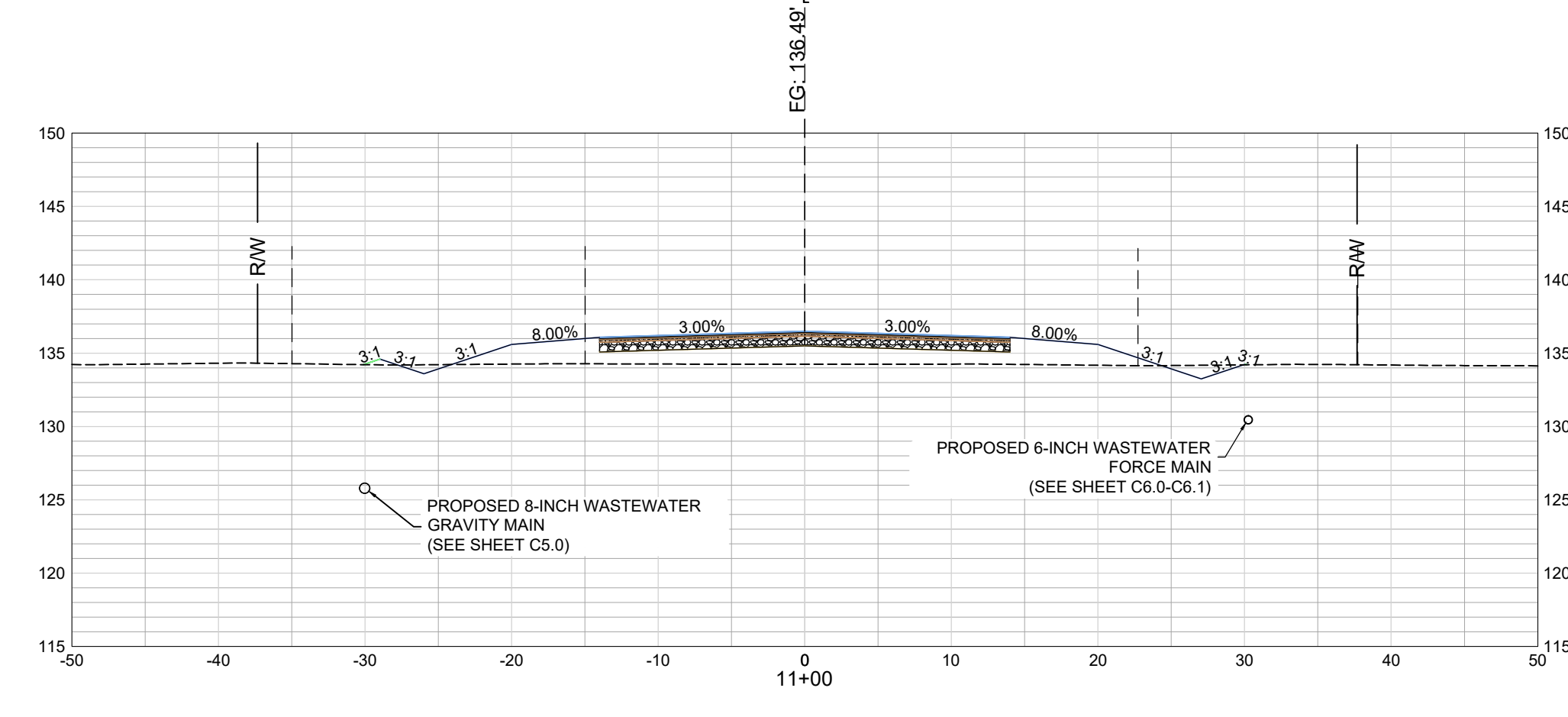
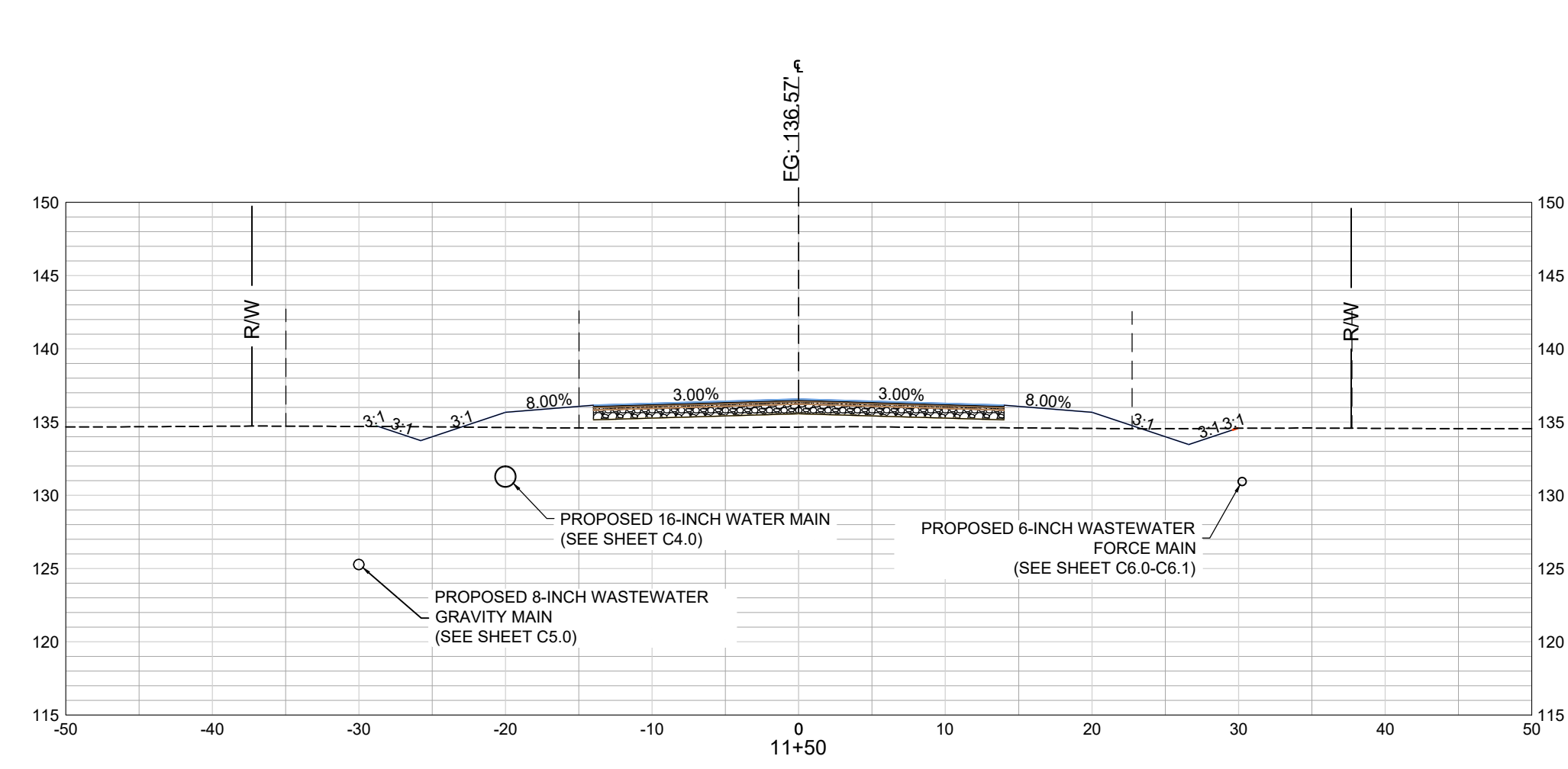
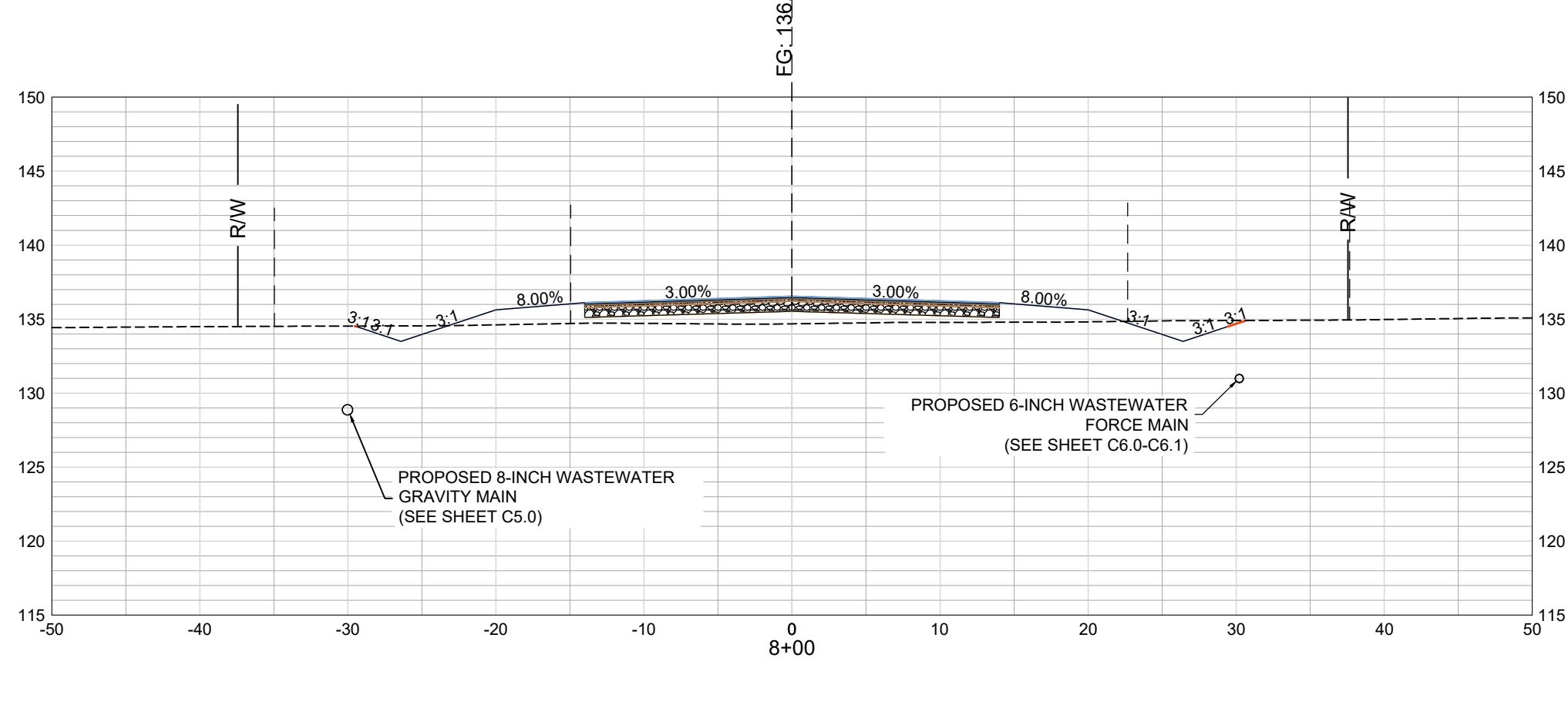
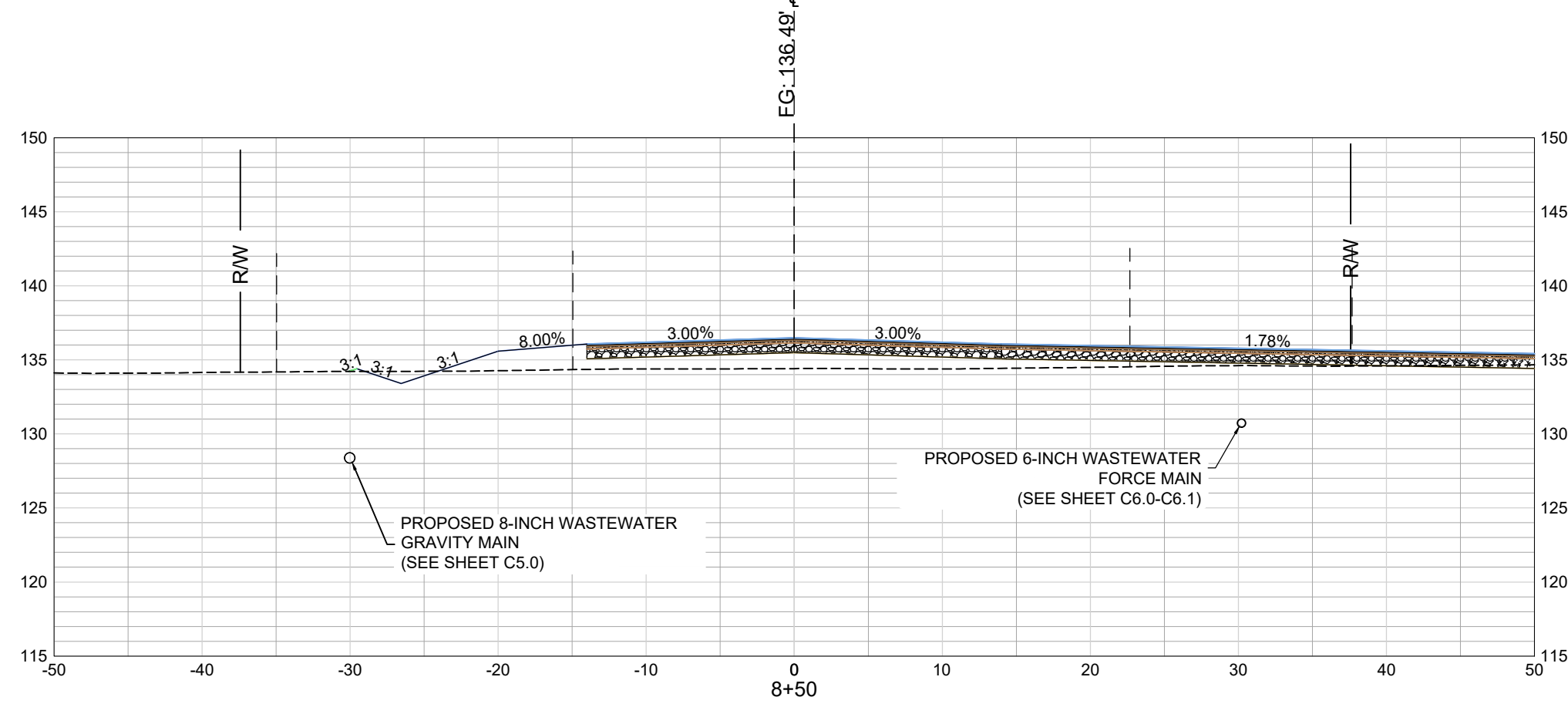
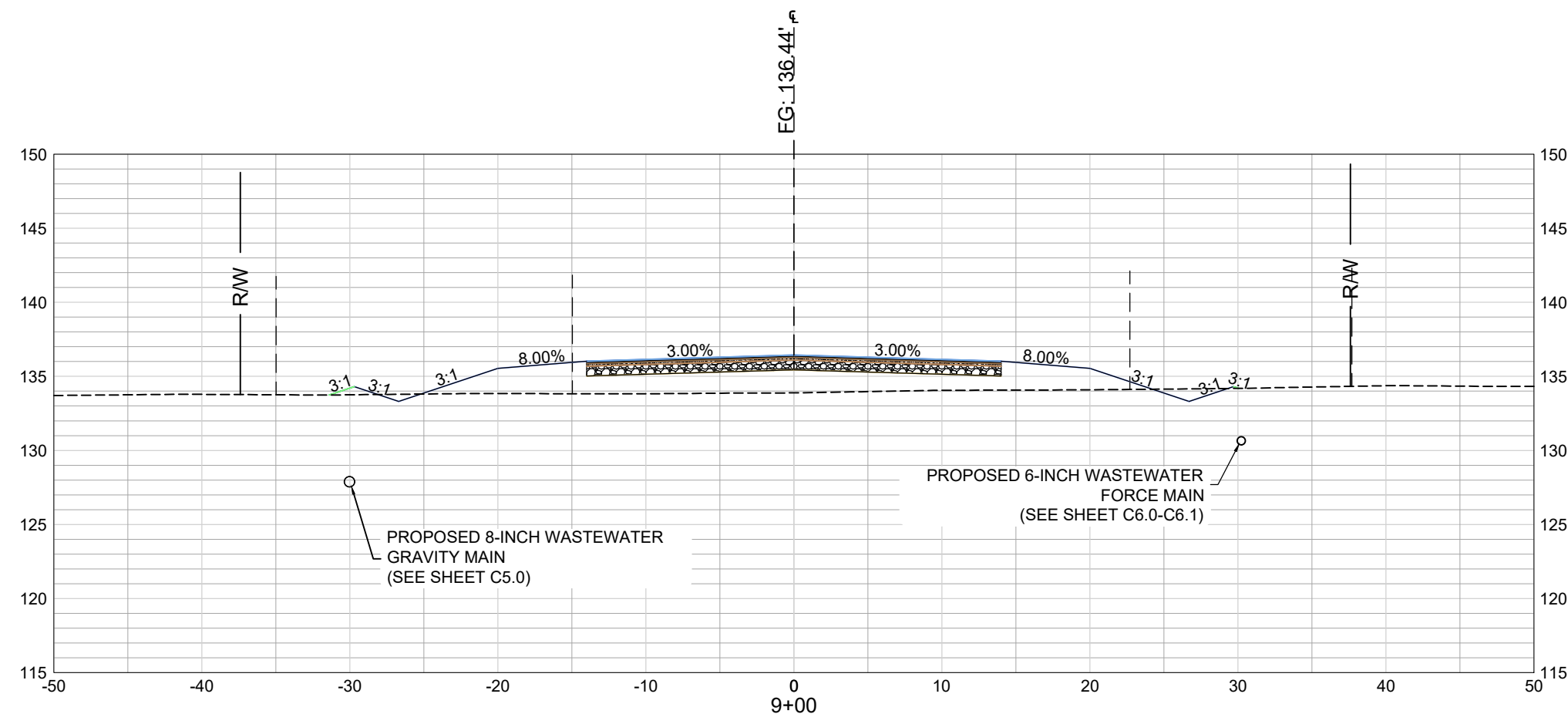
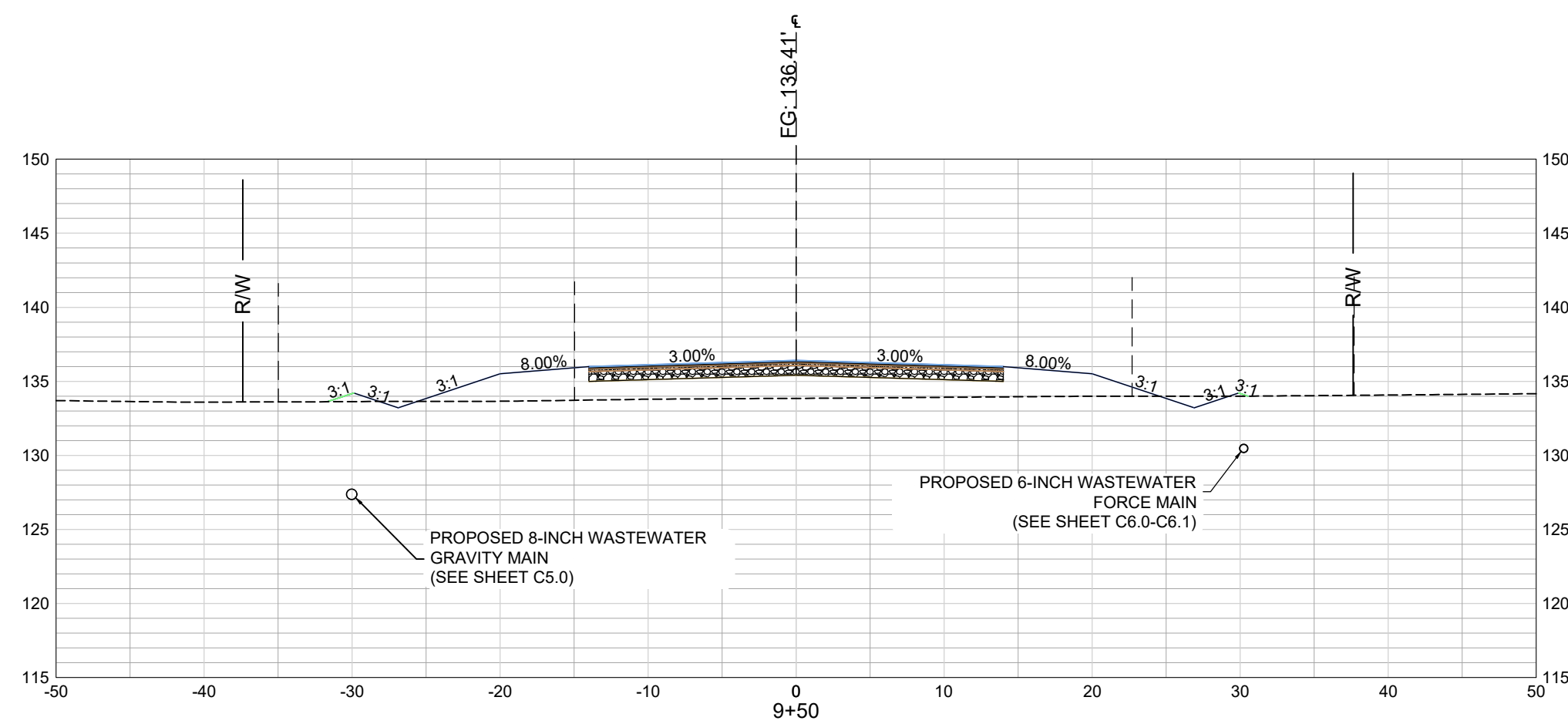
PROJECT
 ROADWAY, WATER, AND WASTEWATER IMPROVEMENTS TO JO ROGERS JR BOULEVARD TO SERVE THE CLARENDON COUNTY INDUSTRIAL PARK LOCATED IN UNINCORPORATED CLARENDON COUNTY, SOUTH CAROLINA

FILE NAME:	C3.3.dwg
REFERENCE FILE:	22201-BASE.dwg
PROJECT NO.:	22201-0014

DWG NO. 01.1598-D28

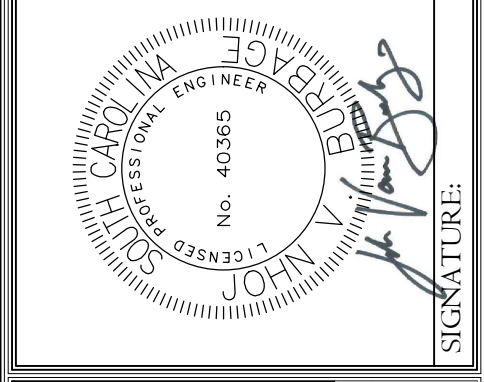
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November 13, 2023 - 6:04:28 PM IS: (Project)22201-001-Roadway W & WW Improv Spec Bldg No. 8 Clarendon Co Ind PK Clarendon County Construction Plans C3.3 - Roadway Cross Sections.dwg



APPROVALS	ENGINEER	DESIGNER	TECHNICIAN	CHECKED BY	APPROVED
	JVB	JVB	JVB	JVB	JVB

REVISION DATE
 SCDHEC COMMENTS
 JUNE 15, 2023
 REALIGNMENT
 SEPTEMBER 1, 2023



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 Columbia, South Carolina • Fax: (803) 779-2079
 Phone: (803) 779-2078

ROADWAY CROSS SECTIONS
 STA 8+00 - STA 11+50
 DATE: JANUARY 2023
 SCALE: 1" = 10'

PROJECT
 ROADWAY, WATER, AND WASTEWATER IMPROVEMENTS TO JO ROGERS JR BOULEVARD TO SERVE THE CLARENDON COUNTY INDUSTRIAL PARK LOCATED IN UNINCORPORATED CLARENDON COUNTY, SOUTH CAROLINA

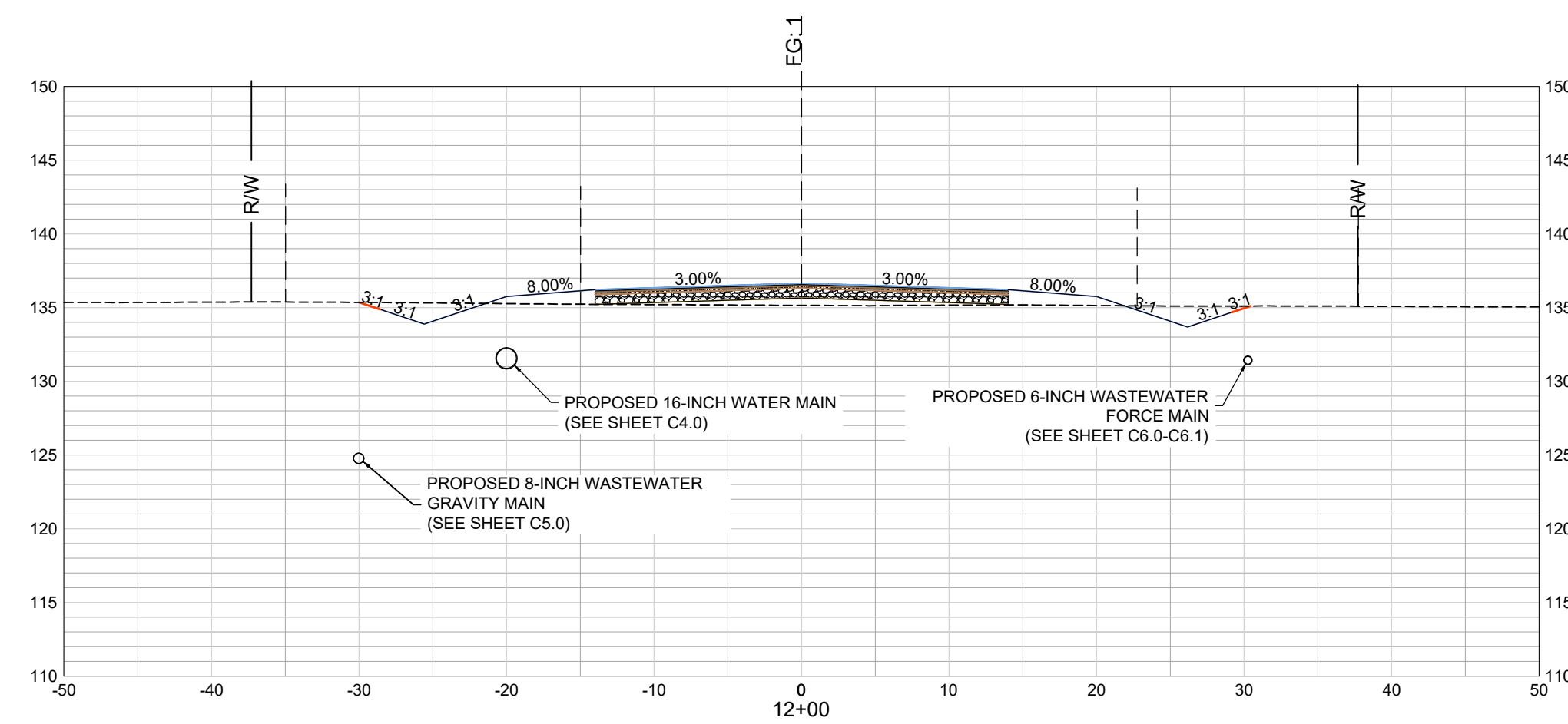
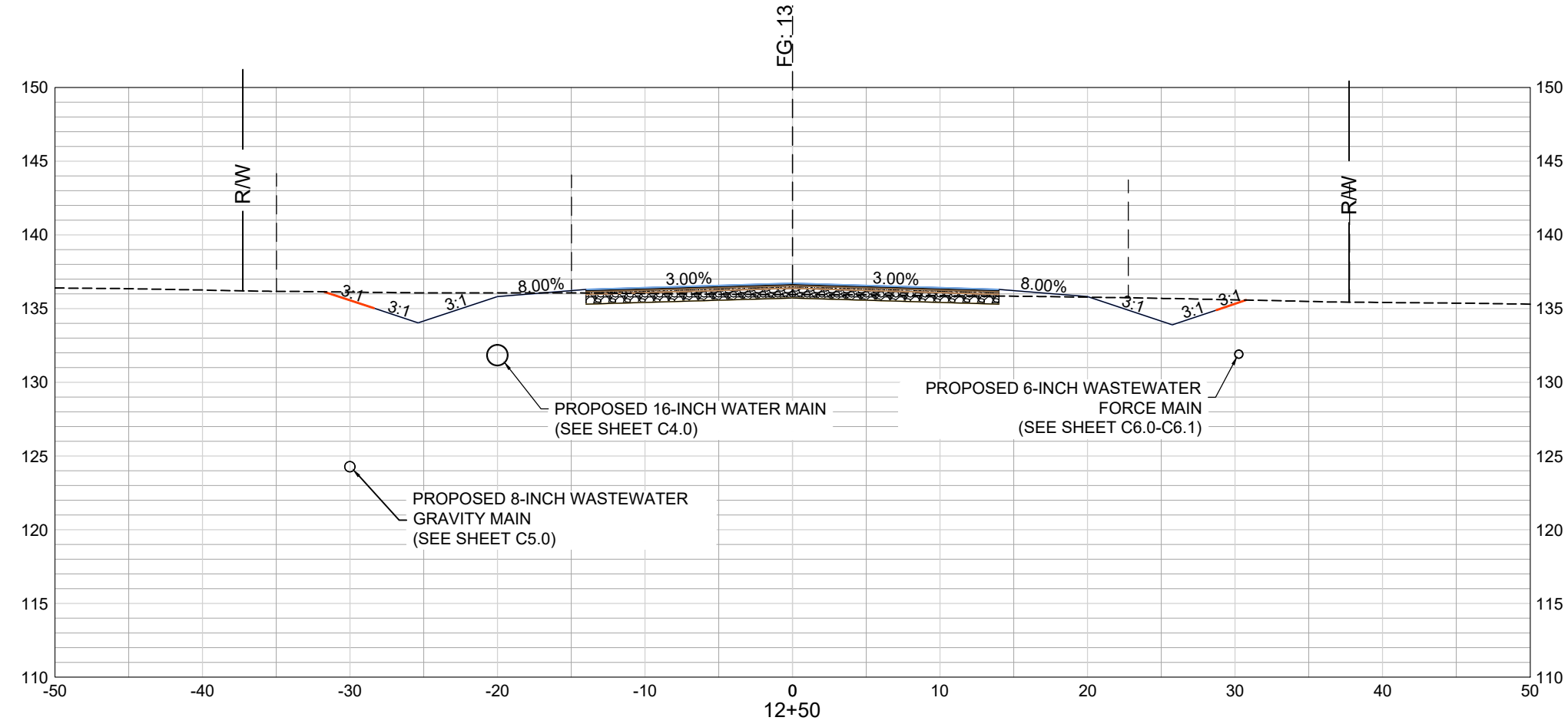
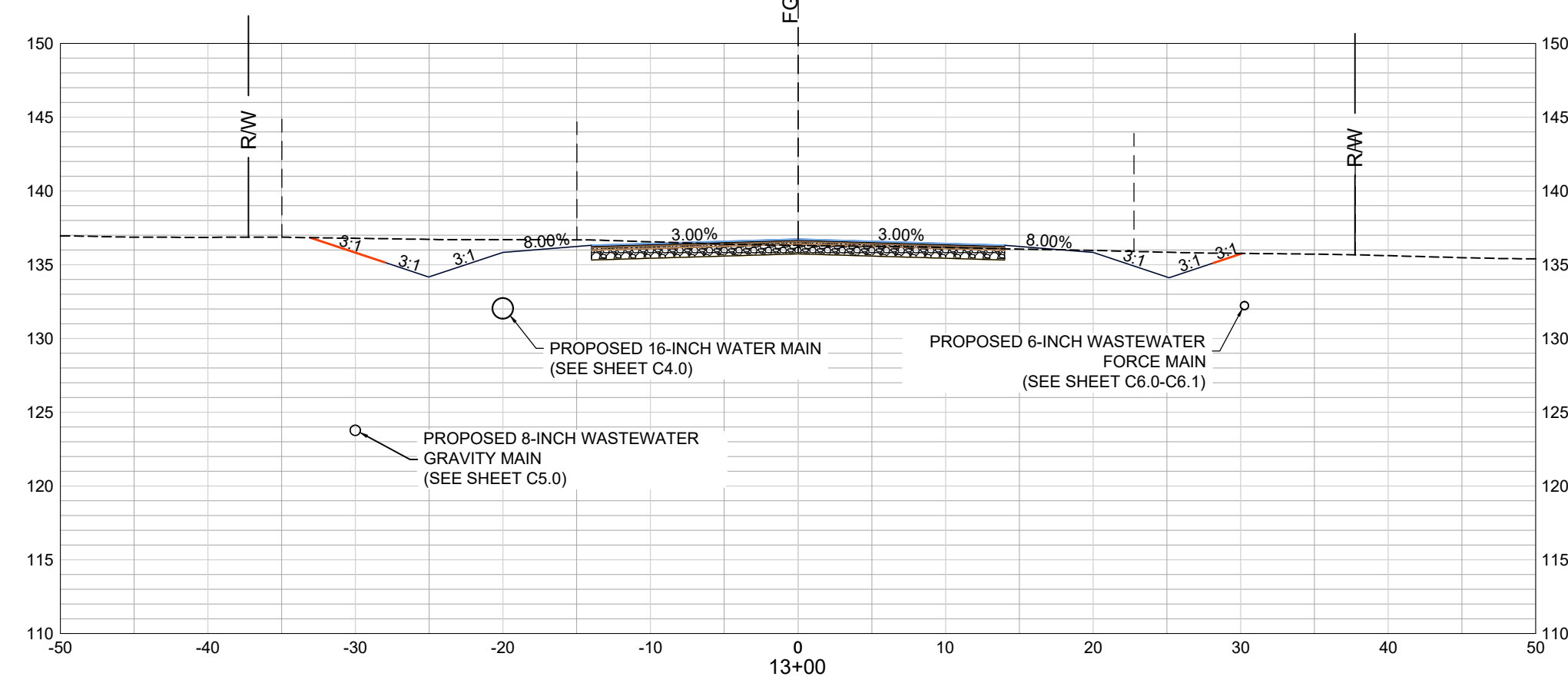
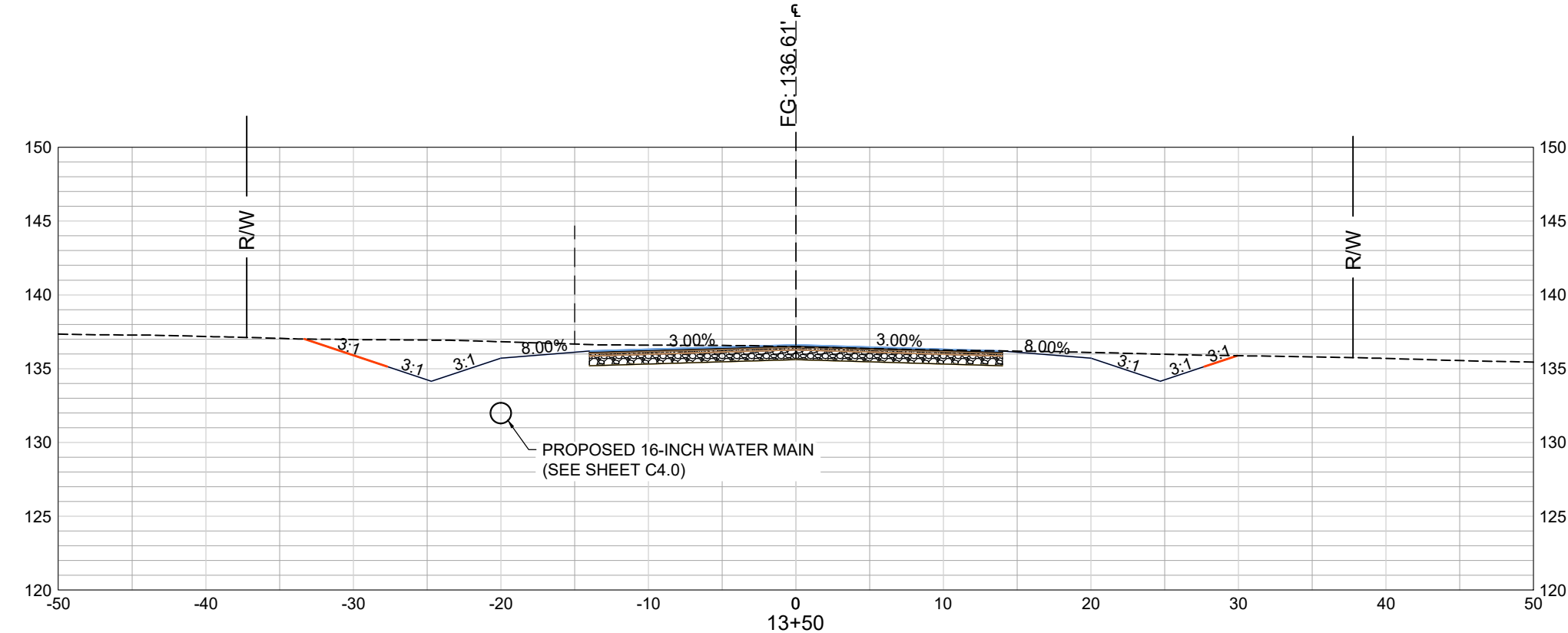
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DWG NO. 01.1598-D28

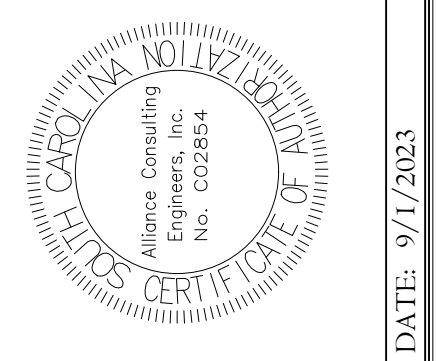
SHEET
 C3.5

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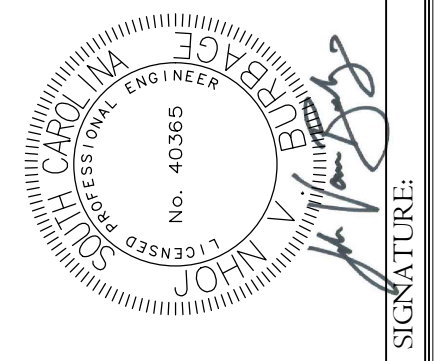
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REVISION DATE	▲
SCDHEC COMMENTS	▲
JUNE 15, 2023	▲
REALIGNMENT	▲
SEPTEMBER 1, 2023	▲
APPROVALS	
ENGINEER	JVB
DESIGNER	JVB
TECHNICIAN	JVB
CHECKED BY	DMN
APPROVED	ISM



DATE: 9/1/2023



SIGNATURE:



SHEET

ROADWAY CROSS SECTIONS
STA 12+0 - STA 13+50

DATE: JANUARY 2023 SCALE: 1" = 10'

PROJECT

ROADWAY, WATER, AND WASTEWATER IMPROVEMENTS TO JO ROGERS JR BOULEVARD TO SERVE THE CLARENDON COUNTY INDUSTRIAL PARK LOCATED IN UNINCORPORATED CLARENDON COUNTY, SOUTH CAROLINA

FILE NAME:	C3.3.dwg
REFERENCE FILE:	22201-BASE.dwg
PROJECT NO.:	22201-0014
SHEET	C3.6

DWG NO. 01.1598-D28

November 13, 2023 - 6:06:08 PM S:\Projects\22201-0014\Raw W & WW\Improv Spec\Bldg No. 8\Clarendon Co\Inl Pk\Clarendon\Constr\Water Main\PLPR.dwg

LEGEND	
	EXISTING PROPERTY LINE
	EXISTING ADJACENT PROPERTY LINE
	EXISTING RIGHT-OF-WAY
	EXISTING EASEMENT
	LIMITS OF DISTURBANCE
	PROPOSED PAVEMENT
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	PROPOSED 16-INCH WATER MAIN
	PROPOSED 6-INCH GRAVITY MAIN
	PROPOSED 6-INCH FORCE MAIN
	PROPOSED STORM DRAINAGE PIPE
	PROPOSED FLARED END SECTION

OWNER INFORMATION
 DEVELOPER: CLARENDON COUNTY ECONOMIC DEVELOPMENT
 CONTACT: MR. GEORGE KOSINSKI, SCED
 EXECUTIVE DIRECTOR
 ADDRESS: 411 SUNSET DRIVE
 CITY, STATE: MANNING, SOUTH CAROLINA 29102
 TELEPHONE: (803) 435-8813
 EMAIL: GKOSINSKI@CLARENDONCOUNTYGOV.ORG

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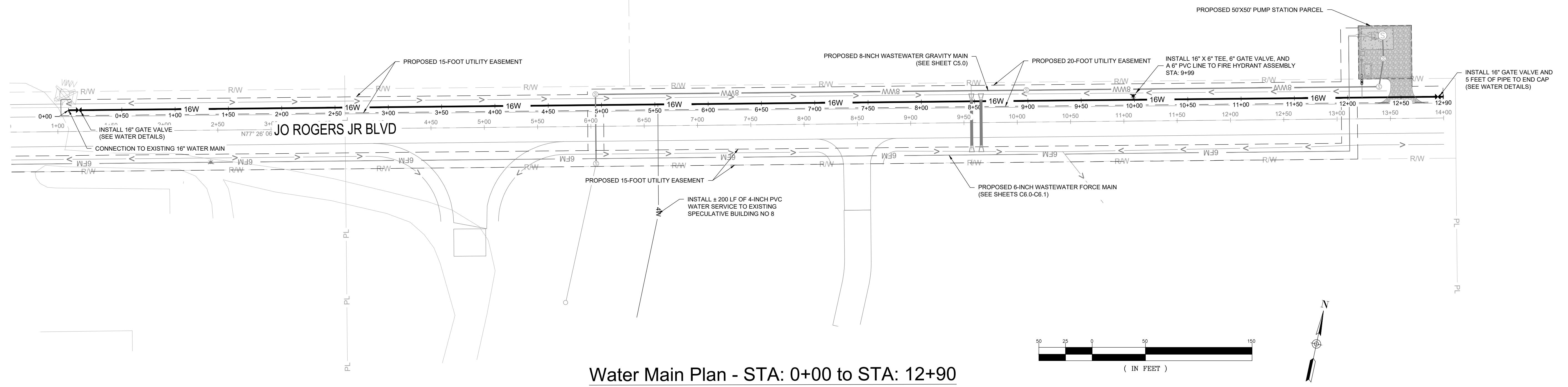
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SCD/HEC COMMENTS	JUNE 15, 2023
REALIGNMENT	SEPTEMBER 1, 2023

APPROVALS

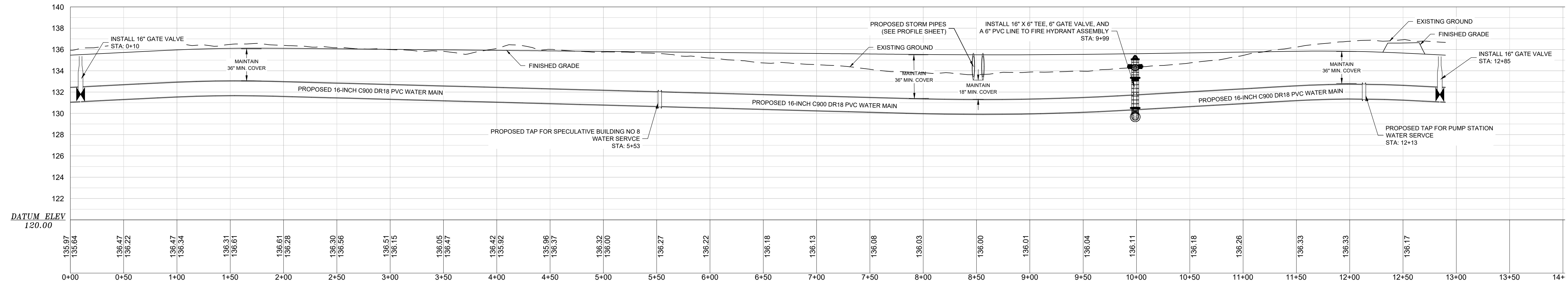
ENGINEER	DESIGNER	TECHNICIAN	CHECKED BY	APPROVED
JVB	JVB	JVB	JVB	JVB

ALLIANCE CONSULTING ENGINEERS, INC.
 JOHN V. BURBAGE, P.E.
 No. 40385
 SOUTH CAROLINA PROFESSIONAL ENGINEER

ALLIANCE CONSULTING ENGINEERS
 Alliance Consulting Engineers, Inc.
 P.O. Box 8147
 Columbia, South Carolina 29202-8147
 Phone: (803) 779-2078 • Fax: (803) 779-2079



Water Main Plan - STA: 0+00 to STA: 12+90



Water Main Profile - STA: 0+00 to STA: 12+90

Horiz: 1" = 50' Vert: 1" = 5'

811
 Know what's below.
 Call before you dig.

CAUTION-NOTE TO CONTRACTOR
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PROJECT: ROADWAY, WATER, AND WASTEWATER IMPROVEMENTS TO JO ROGERS JR BOULEVARD TO SERVE THE CLARENDON COUNTY INDUSTRIAL PARK LOCATED IN UNINCORPORATED CLARENDON COUNTY, SOUTH CAROLINA

DATE: JANUARY 2023 SCALE: 1" = 50'

FILE NAME: C4.0.dwg
 REFERENCE FILE: 22201-BASE.dwg
 PROJECT NO.: 22201-0014

SHEET: C4.0

DWG NO. 01.1598-D28

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November 13, 2023 - 6:06:43 PM S:\Projects\22201-0014_Roadway & WW Improv Spec (Bldg) No. 8 Clarendon Co Infil PK Clarendon County\Construction Plans_C5.0 - Gravity Wastewater PLR.dwg

LEGEND	
	EXISTING PROPERTY LINE
	EXISTING ADJACENT PROPERTY LINE
	EXISTING RIGHT-OF-WAY
	EXISTING EASEMENT
	LIMITS OF DISTURBANCE
	PROPOSED PAVEMENT
	PROPOSED DITCH FLOW LINE
	PROPOSED 16-INCH WATER MAIN
	PROPOSED 6-INCH GRAVITY MAIN
	PROPOSED 6-INCH FORCE MAIN
	PROPOSED 6-INCH FORCE MAIN
	PROPOSED STORM DRAINAGE PIPE
	PROPOSED FLARED END SECTION

OWNER INFORMATION
 DEVELOPER: CLARENDON COUNTY ECONOMIC DEVELOPMENT
 CONTACT: MR. GEORGE KOSINSKI, SCCEC
 EXECUTIVE DIRECTOR
 ADDRESS: 411 SUNSET DRIVE
 CITY, STATE: MANNING, SOUTH CAROLINA 29102
 TELEPHONE: (803) 435-8813
 EMAIL: GKOSINSKI@CLARENDONCOUNTYGOV.ORG

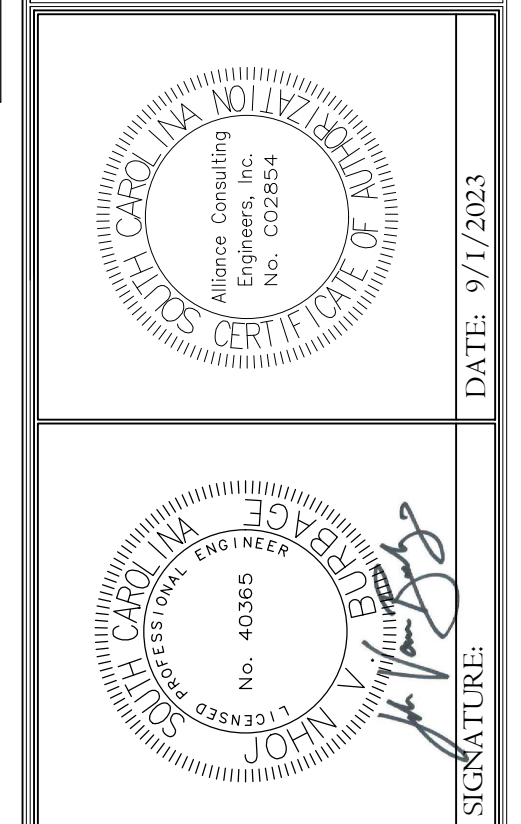
ENGINEER INFORMATION
 COMPANY: ALLIANCE CONSULTING ENGINEERS, INC.
 CONTACT: JOHN V. BURBAGE, P.E.
 ADDRESS: POST OFFICE BOX 8147
 CITY, STATE: COLUMBIA, SOUTH CAROLINA 29202
 TELEPHONE: (803) 779-2078
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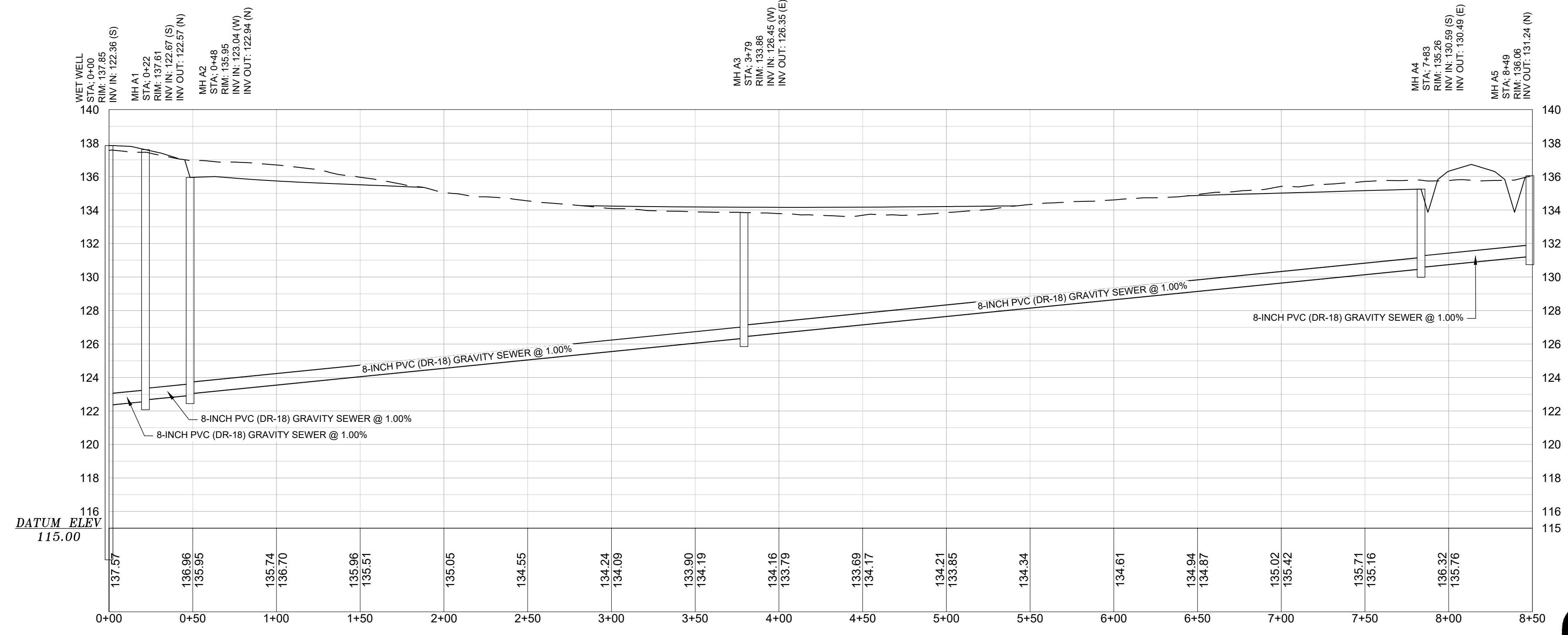
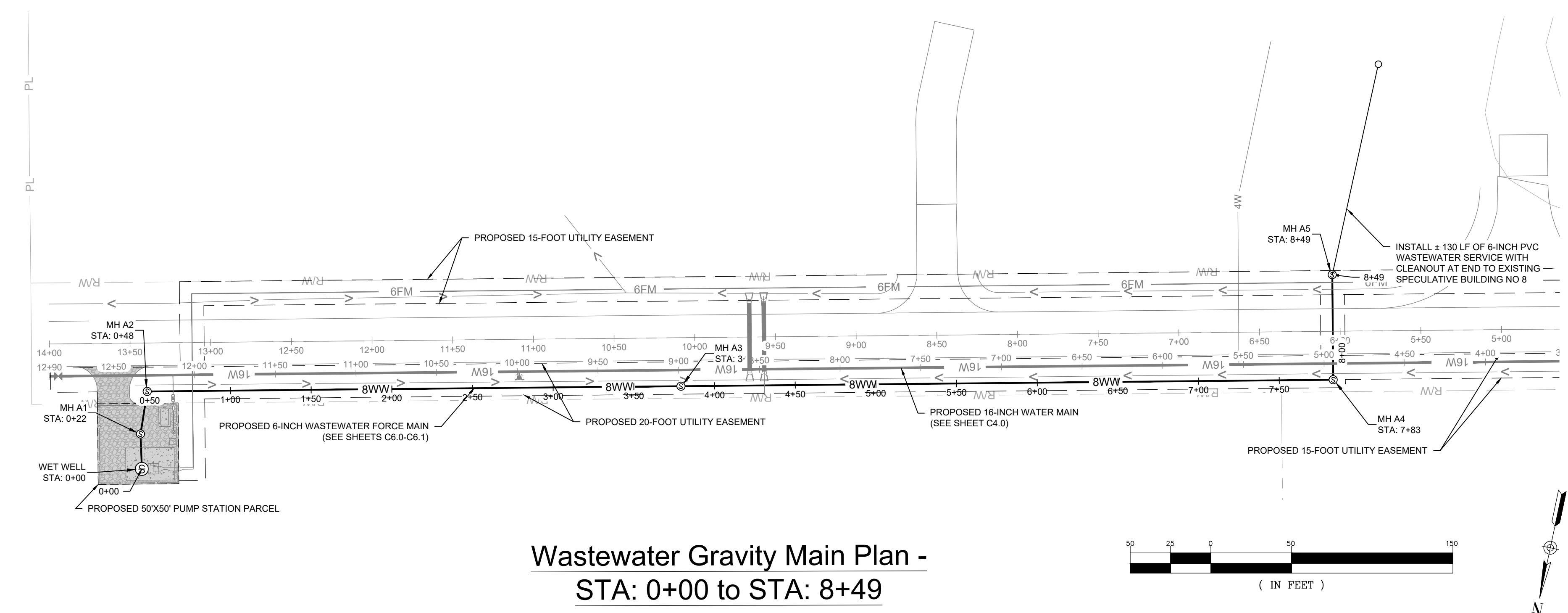
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REVISION DATE	
▲	SCDHEC COMMENTS
▲	JUNE 15, 2023
▲	REALIGNMENT
▲	SEPTEMBER 1, 2023

APPROVALS	ENGINEER	DESIGNER	TECHNICIAN	CHECKED BY	APPROVED
	JVB	JVB	JVB	JVB	JVB



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Wastewater Gravity Main Profile - STA: 0+00 to STA: 8+49
 Horiz: 1" = 50' Vert: 1" = 5'



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PROJECT: ROADWAY, WATER, AND WASTEWATER IMPROVEMENTS TO JO ROGERS JR BOULEVARD TO SERVE THE CLARENDON COUNTY INDUSTRIAL PARK LOCATED IN UNINCORPORATED CLARENDON COUNTY, SOUTH CAROLINA

SHEET: WASTEWATER GRAVITY MAIN PLAN AND PROFILE STA: 0+00 - 8+49

DATE: JANUARY 2023 SCALE: 1" = 50'

FILE NAME:	C5.0.dwg
REFERENCE FILE:	22201-BASE.dwg
PROJECT NO.:	22201-0014

DWG NO. 01.1598-D28

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November 13, 2023 - 6:07:50 PM IS: (Project)22201-0014: Rwy W & WW Improv Spec: Bldg No. 8 Clarendon Co Ind Pk Clarendon County Construction Plans: C6.0 - Wastewater Force Main PLPR.dwg

LEGEND	
	EXISTING PROPERTY LINE
	EXISTING ADJACENT PROPERTY LINE
	EXISTING RIGHT-OF-WAY
	EXISTING EASEMENT
	LIMITS OF DISTURBANCE
	PROPOSED PAVEMENT
	PROPOSED DITCH FLOW LINE
	PROPOSED 16-INCH WATER MAIN
	PROPOSED 6-INCH GRAVITY MAIN
	PROPOSED 6-INCH FORCE MAIN
	PROPOSED STORM DRAINAGE PIPE
	PROPOSED FLARED END SECTION

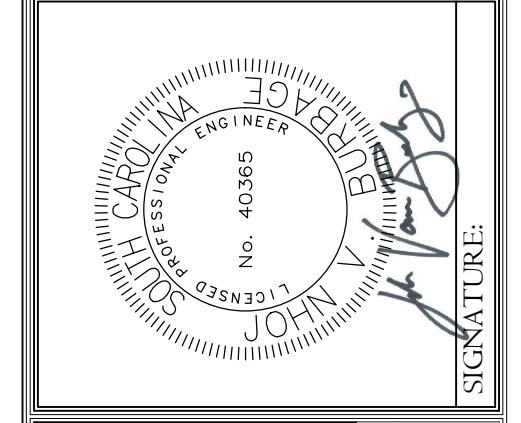
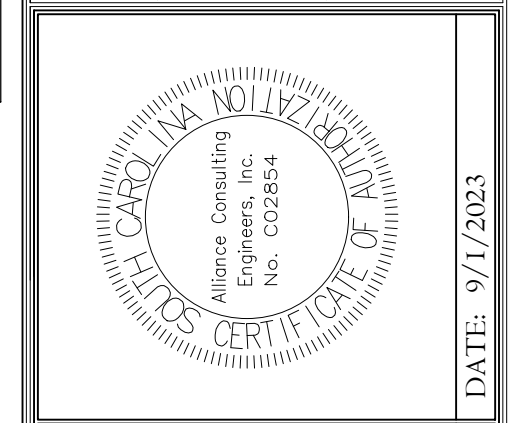
OWNER INFORMATION
 DEVELOPER: CLARENDON COUNTY ECONOMIC DEVELOPMENT
 CONTACT: MR. GEORGE KOSINSKI, SCCED
 EXECUTIVE DIRECTOR
 ADDRESS: 411 SUNSET DRIVE
 CITY, STATE: MANNING, SOUTH CAROLINA 29102
 TELEPHONE: (803) 435-8813
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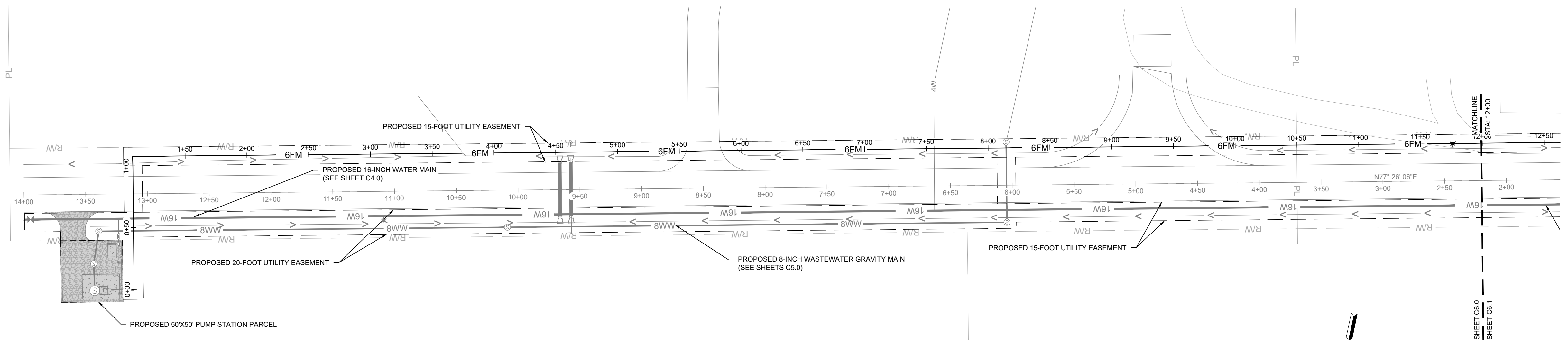
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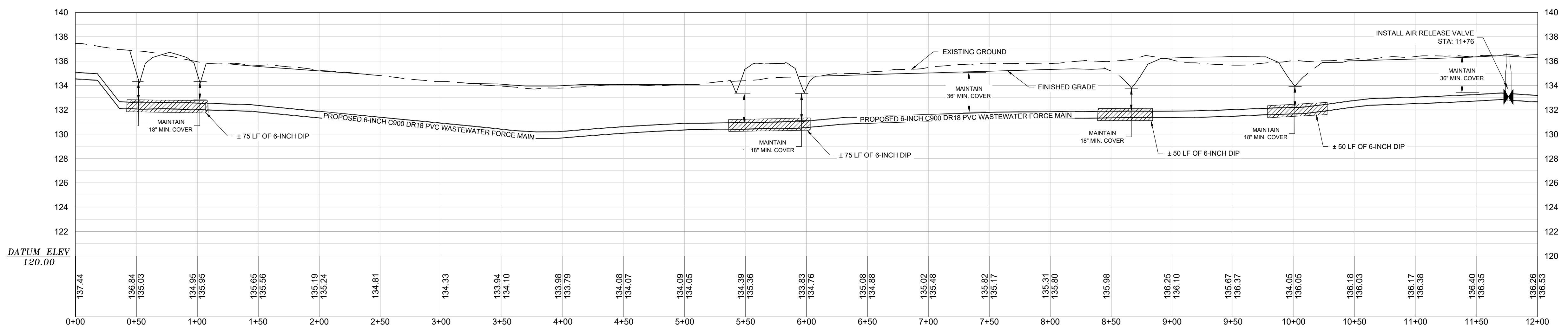
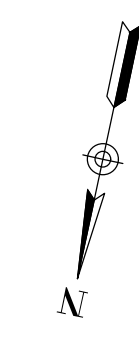
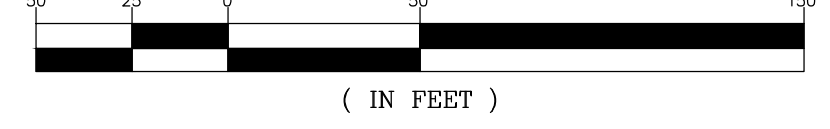
REVISION		DATE
▲	SCDHEC COMMENTS	
▲	JUNE 15, 2023	
▲	REALIGNMENT	
▲	SEPTEMBER 1, 2023	



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**Wastewater Force Main Plan -
 STA: 0+00 to STA: 12+00**



**Wastewater Force Main Profile -
 STA: 0+00 to STA: 12+00**
 Horiz: 1" = 50' Vert: 1" = 5'



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**WASTEWATER FORCE MAIN
 PLAN AND PROFILE
 STA: 0+00 - 12+00**

PROJECT
 ROADWAY, WATER, AND WASTEWATER IMPROVEMENTS TO JO ROGERS JR BOULEVARD TO SERVE THE CLARENDON COUNTY INDUSTRIAL PARK LOCATED IN UNINCORPORATED CLARENDON COUNTY, SOUTH CAROLINA

FILE NAME: C6.0.dwg	SHEET C6.0
REFERENCE FILE: 22201-BASE.dwg	
PROJECT NO. 22201-0014	

DWG NO. 01.1598-D28

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November 13, 2023 - 11:10:02 AM C:\Users\vburbage\AppData\Local\Temp\AcPlot\... 16241 C6.1 - Wastewater Force Main PLPR.dwg

LEGEND	
	EXISTING PROPERTY LINE
	EXISTING ADJACENT PROPERTY LINE
	EXISTING RIGHT-OF-WAY
	EXISTING EASEMENT
	LIMITS OF DISTURBANCE
	PROPOSED PAVEMENT
	PROPOSED DITCH FLOW LINE
	PROPOSED 16-INCH WATER MAIN
	PROPOSED 6-INCH GRAVITY MAIN
	PROPOSED 6-INCH FORCE MAIN
	PROPOSED STORM DRAINAGE PIPE
	PROPOSED FLARED END SECTION

OWNER INFORMATION
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 CONTACT: MR. GEORGE KOSINSKI, SCED
 EXECUTIVE DIRECTOR
 ADDRESS: 411 SUNSET DRIVE
 MANNING, SOUTH CAROLINA 29102
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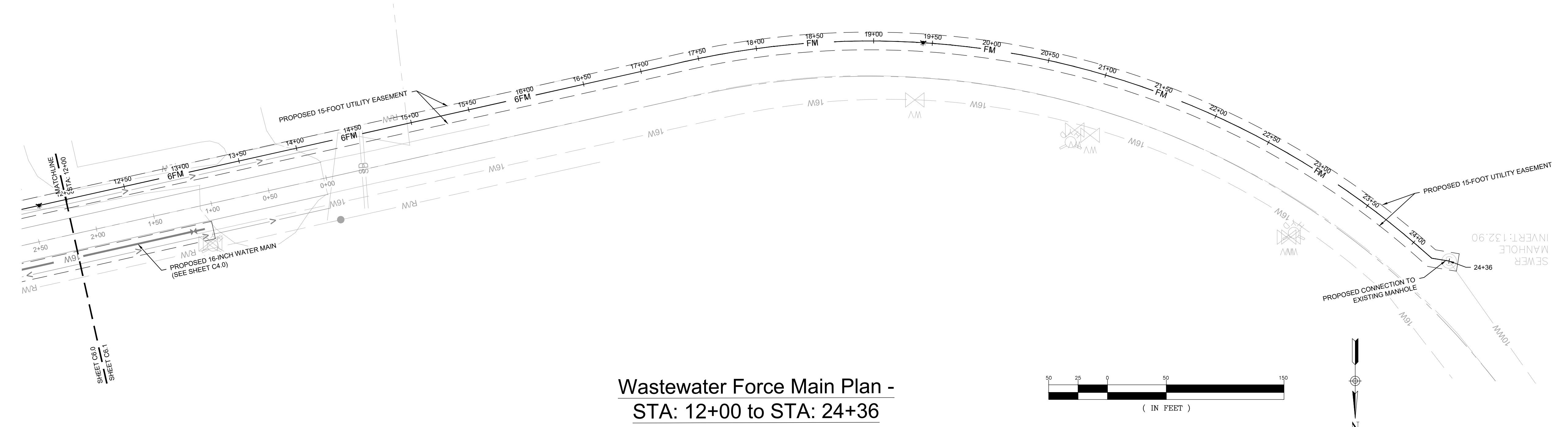
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REVISION DATE	
SCD/HEC COMMENTS	JUNE 15, 2023
REALIGNMENT	SEPTEMBER 1, 2023

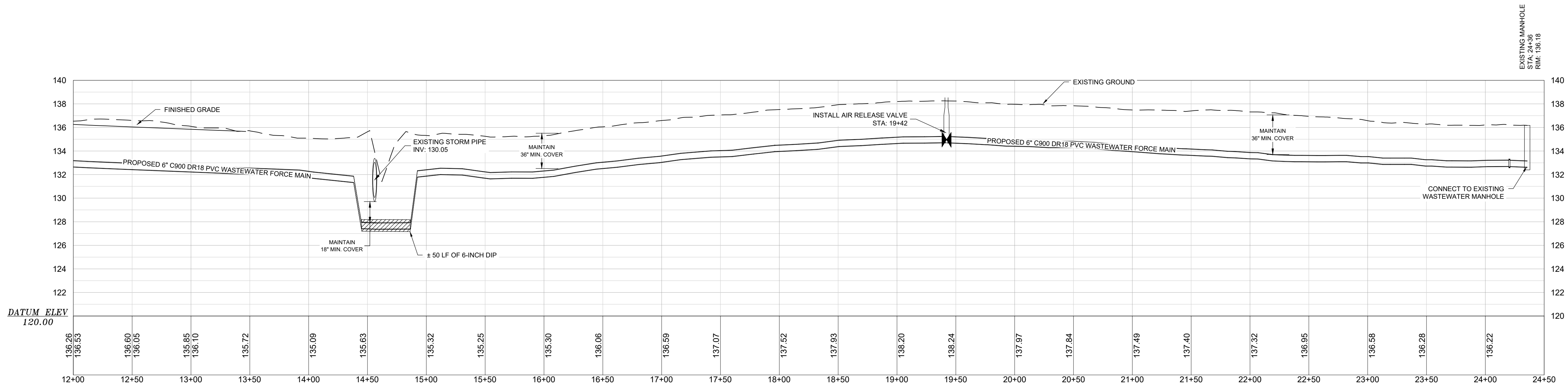
APPROVALS

ENGINEER	DESIGNER	TECHNICIAN	CHECKED BY	APPROVED
JVB	JVB	JVB	JVB	JVB

DATE: 9/1/2023



Wastewater Force Main Plan -
STA: 12+00 to STA: 24+36



Wastewater Force Main Profile -
STA: 12+00 to STA: 24+36
 Horiz: 1" = 50' Vert: 1" = 5'



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WASTEWATER FORCE MAIN PLAN AND PROFILE
 STA: 12+00 - 24+36

DATE: JANUARY 2023 SCALE: 1" = 50'

ROADWAY, WATER, AND WASTEWATER IMPROVEMENTS TO JO ROGERS JR BOULEVARD TO SERVE THE CLARENDON COUNTY INDUSTRIAL PARK LOCATED IN UNINCORPORATED CLARENDON COUNTY, SOUTH CAROLINA

FILE NAME:	C6.0.dwg	SHEET
REFERENCE FILE:	22201-BASE.dwg	
PROJECT NO.:	22201-0014	C6.1
DWG NO. 01.1598-D28		

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November 13, 2023 - 6:08:59 PM S:\Projects\22201-0014_Roadway & WW Improv Spec (Bldg No. 8 Clarendon Co Ind Pk Clarendon Cdwg)\Construction Plans_C7.0 - Pump Station Plan.dwg

LEGEND	
	EXISTING PROPERTY LINE
	EXISTING ADJACENT PROPERTY LINE
	EXISTING RIGHT-OF-WAY
	EXISTING EASEMENT
	LIMITS OF DISTURBANCE
	PROPOSED PAVEMENT
	PROPOSED DITCH FLOW LINE
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	PROPOSED FLARED END SECTION

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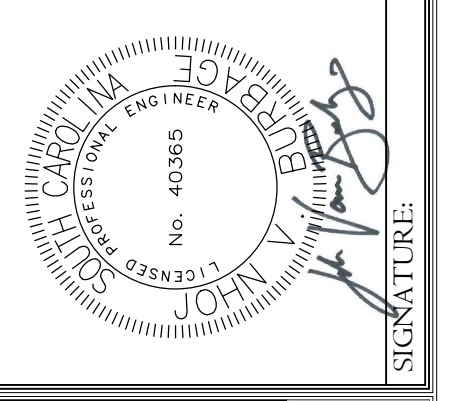
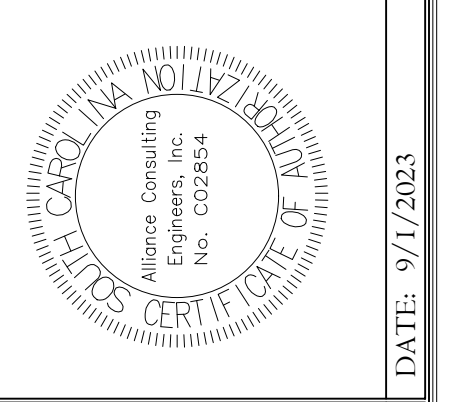
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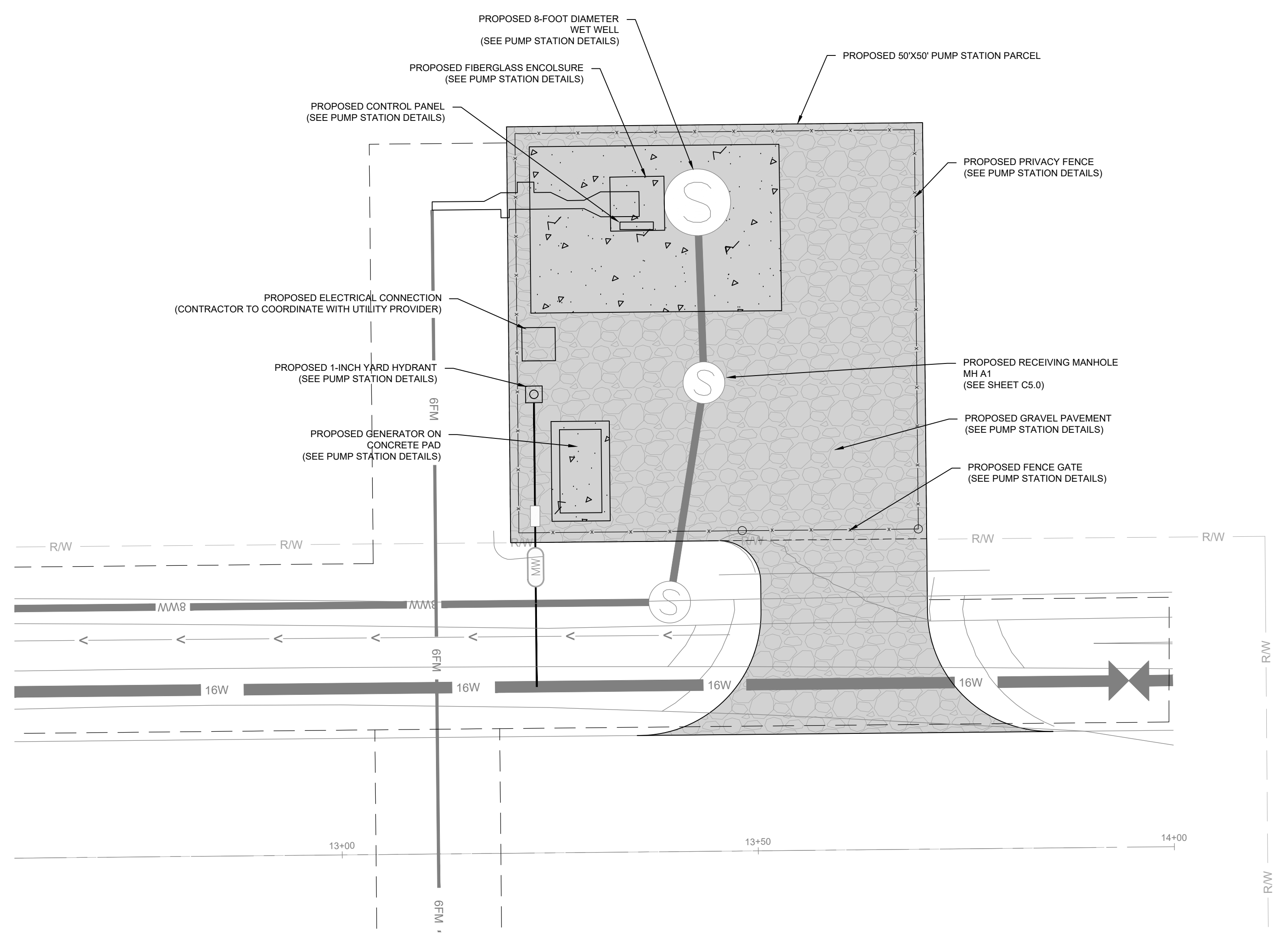
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▲	JUNE 15, 2023
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▲	SEPTEMBER 1, 2023

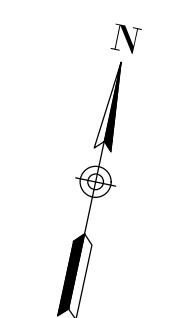
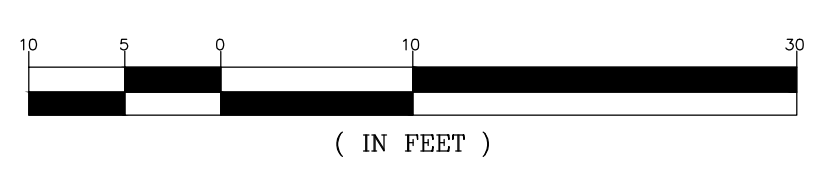
APPROVALS	DESIGNER	TECHNICIAN	CHECKED BY	APPROVED
JVB	JVB	JVB	JVB	JVB



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Pump Station Site Plan



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PUMP STATION SITE PLAN

DATE: JANUARY 2023 SCALE: 1" = 10'

PROJECT
 ROADWAY, WATER, AND WASTEWATER IMPROVEMENTS TO JO ROGERS JR BOULEVARD TO SERVE THE CLARENDON COUNTY INDUSTRIAL PARK LOCATED IN UNINCORPORATED CLARENDON COUNTY, SOUTH CAROLINA

FILE NAME:	C7.0.dwg	SHEET
REFERENCE FILE:	22201-BASE.dwg	
PROJECT NO.:	22201-0014	
DWG NO. 01.1598-D28		

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November 13, 2023 - 11:10:30 AM C:\Users\vburbage\AppData\Local\Temp\Ac\p\d\sh...16241_03.0 - Erosion and Sediment Control Plans.dwg

LEGEND	
— PL —	EXISTING PROPERTY LINE
— — — —	EXISTING ADJACENT PROPERTY LINE
— RW —	EXISTING RIGHT-OF-WAY
— — — —	EXISTING EASEMENT
— GAS —	EXISTING GAS LINE
— OHE —	EXISTING OVERHEAD POWER LINE
— 16W —	EXISTING WATER MAIN
— 10WW —	EXISTING WASTEWATER GRAVITY LINE
— — — —	LIMITS OF DISTURBANCE
— — — —	PROPOSED 16-INCH WATER MAIN
— — — —	PROPOSED 6-INCH GRAVITY MAIN
— — — —	PROPOSED 6-INCH FORCE MAIN
— — — —	PROPOSED DITCH FLOW LINE
— — — —	PROPOSED PAVEMENT
— — — —	PROPOSED CONTOUR MAJOR
— — — —	PROPOSED CONTOUR MINOR
— — — —	PROPOSED STORM DRAINAGE PIPE
— — — —	PROPOSED FLARED END SECTION
— — — —	PROPOSED CONSTRUCTION ENTRANCE
— — — —	PROPOSED CONCRETE WASHOUT
— — — —	PROPOSED SILT FENCE
— — — —	PROPOSED ROCK CHECK DAM
— — — —	PROPOSED OUTLET PROTECTION
— — — —	PROPOSED EROSION CONTROL MATTING
— — — —	PROPOSED PERMANENT SEEDING



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Call before you dig.

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OWNER INFORMATION
 DEVELOPER: CLARENDON COUNTY ECONOMIC DEVELOPMENT
 CONTACT: MR. GEORGE KOSINSKI, SCDCE
 EXECUTIVE DIRECTOR
 ADDRESS: 411 SUNSET DRIVE
 MANNING, SOUTH CAROLINA 29102
 CITY, STATE: (803) 435-8813
 TELEPHONE: G.KOSINSKI@CLARENDONCOUNTYGOV.ORG
 EMAIL:

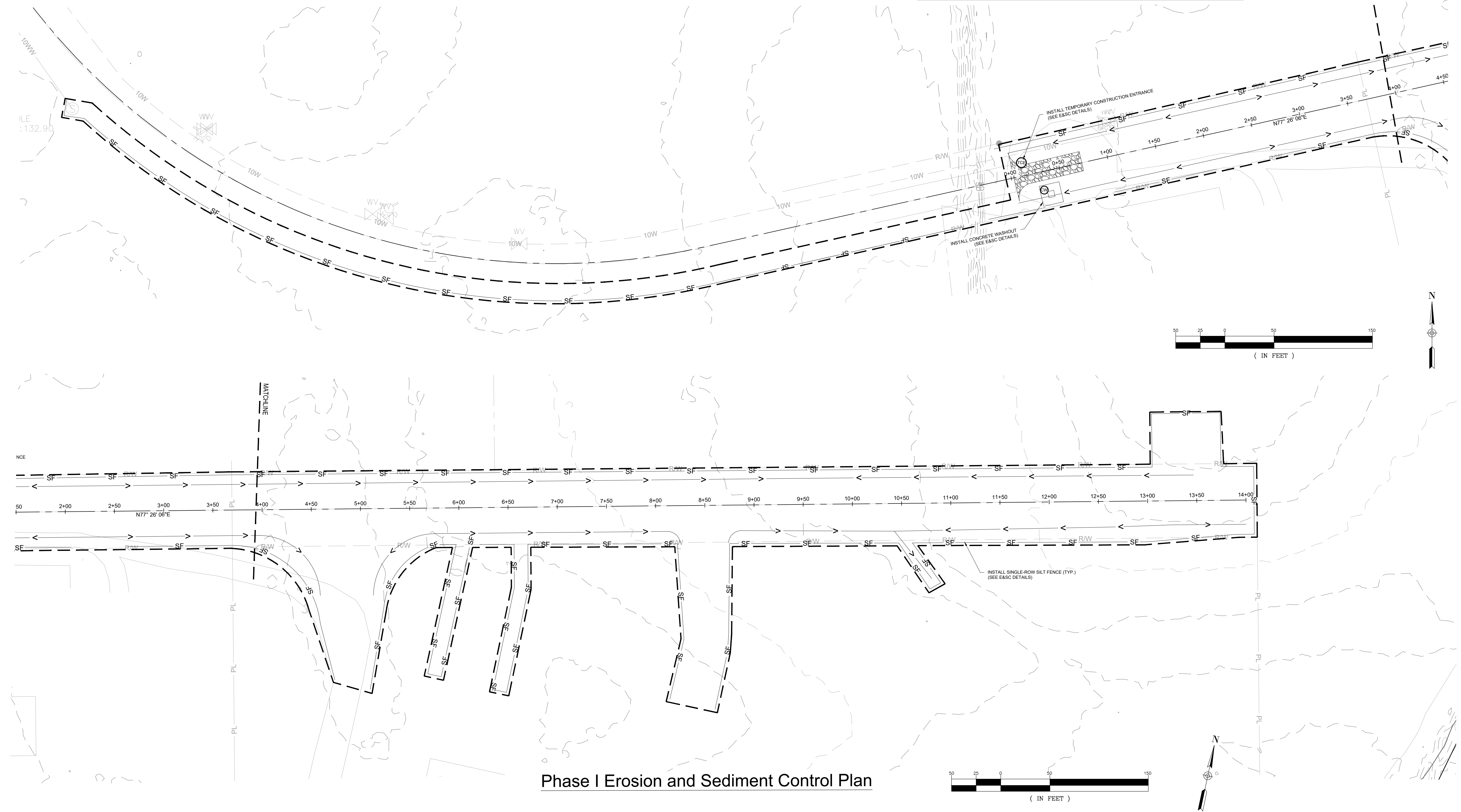
ENGINEER INFORMATION
 COMPANY: ALLIANCE CONSULTING ENGINEERS, INC.
 CONTACT: JOHN V. BURBAGE, P.E.
 ADDRESS: POST OFFICE BOX 8147
 COLUMBIA, SOUTH CAROLINA 29202
 CITY, STATE: (803) 779-2078
 TELEPHONE: (803) 779-2078
 FAX: VBURBAGE@ALLIANCECE.COM
 EMAIL:

REFERENCES:
 1. REFERENCE IS MADE TO A TOPOGRAPHIC SURVEY PREPARED BY WILLIAM E. HAYES, P.L.S. DATED NOVEMBER 21, 2022 AND BLACK RIVER LAND SURVEYING, LLC DATED JULY 21, 2023.
 2. ALL COORDINATES DEPICTED ARE SOUTH CAROLINA STATE PLANE COORDINATES, NAD 83 AND NAVD 88.

NOTES:
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 2. UTILITY LOCATIONS ARE APPROXIMATE AND MUST BE FIELD LOCATED PRIOR TO ANY LAND DISTURBANCE BY THE CONTRACTOR. UTILITY CONTRACTOR TO VERIFY INVERTS AND CONNECTION POINTS AND CONSULT ENGINEER OF RECORD IF ANY CONFLICTS ARE FOUND BEFORE CONSTRUCTION BEGINS.
 3. AS-BUILT TOPOGRAPHIC SURVEY COMPLETED BY A LICENSED SURVEYOR TO BE PROVIDED BY CONTRACTOR TO ALLIANCE CONSULTING ENGINEERS, INC. UPON PROJECT COMPLETION.

CONSTRUCTION SEQUENCE - PHASE I INITIAL LAND DISTURBANCE

1. RECEIVE LAND DISTURBANCE PERMIT FROM SCDHEC.
2. NOTIFY SCDHEC REGIONAL OFFICE AND CLARENDON COUNTY 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITIES.
3. PRE-CONSTRUCTION MEETING WILL BE HELD ON SITE WITH THE SCDHEC REPRESENTATIVE, OWNER AND CONTRACTOR TO DISCUSS THE MEASURES AND HOW TO FOLLOW THE SWPPP STANDARDS BEFORE WORK BEGINS.
4. CLEARING AND GRUBBING AS NECESSARY ALONG THE LIMITS OF DISTURBANCE FOR INSTALLATION OF PERIMETER CONTROLS, TEMPORARY SEDIMENT CONTROL MEASURES, AND BEST MANAGEMENT PRACTICES (BMPs), (CONSTRUCTION ENTRANCE, SILT FENCE).
5. AFTER ALL PERIMETER MEASURES ARE INSTALLED, CONTINUE TO PHASE II.
6. MAINTAIN ALL EROSION AND SEDIMENT CONTROL DEVICES FOR THE EXTENT OF THE PROJECT.



Phase I Erosion and Sediment Control Plan

REVISION DATE SCDHEC COMMENTS JUNE 15, 2023 REALIGNMENT SEPTEMBER 1, 2023	
APPROVALS ENGINEER: [Signature] DESIGNER: [Signature] TECHNICIAN: [Signature] CHECKED BY: [Signature] APPROVED: [Signature]	DATE: 9/1/2023 SIGNATURE: [Signature]
ALLIANCE CONSULTING ENGINEERS, Inc. Alliance Consulting Engineers, Inc. P.O. Box 8147 Columbia, South Carolina 29202-8147 Phone: (803) 779-2078 • Fax: (803) 779-2079	
PHASE I EROSION AND SEDIMENT CONTROL PLAN DATE: JANUARY 2023 SCALE: 1" = 50'	
PROJECT ROADWAY, WATER, AND WASTEWATER IMPROVEMENTS TO SERVE JO ROGERS, JR BOULEVARD TO SERVE THE CLARENDON COUNTY INDUSTRIAL PARK LOCATED IN UNINCORPORATED CLARENDON COUNTY, SOUTH CAROLINA	
FILE NAME: C8.0.dwg REFERENCE FILE: 22201-BASE.dwg PROJECT NO.: 22201-0014	SHEET C8.0
DWG NO. 01.1598-D28	

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November 13, 2023 - 6:09:58 PM S:\Projects\22201-0014_Roadway & WW Improv Spec Bldg No. 8 Clarendon Co Ind Pk Clarendon County\Construction Plans_C8.1 - Erosion and Sediment Control Plans.dwg

LEGEND																										
PL	EXISTING PROPERTY LINE	PROPOSED PAVEMENT																								
EA	EXISTING ADJACENT PROPERTY LINE	PROPOSED CONTOUR MAJOR																								
RW	EXISTING RIGHT-OF-WAY	PROPOSED CONTOUR MINOR																								
GAS	EXISTING GAS LINE	PROPOSED FLARED END SECTION	OHE	EXISTING OVERHEAD POWER LINE	PROPOSED CONSTRUCTION ENTRANCE	18W	EXISTING WATER MAIN	PROPOSED CONCRETE WASHOUT	10WW	EXISTING WASTEWATER GRAVITY LINE	PROPOSED SILT FENCE	LD	LIMITS OF DISTURBANCE	PROPOSED ROCK CHECK DAM	18FM	PROPOSED 18-INCH WATER MAIN	PROPOSED OUTLET PROTECTION	6FM	PROPOSED 6-INCH GRAVITY MAIN	PROPOSED EROSION CONTROL MATTING	6FM	PROPOSED 6-INCH FORCE MAIN	PROPOSED PERMANENT SEEDING	DFL	PROPOSED DITCH FLOW LINE	
OHE	EXISTING OVERHEAD POWER LINE	PROPOSED CONSTRUCTION ENTRANCE	18W	EXISTING WATER MAIN	PROPOSED CONCRETE WASHOUT	10WW	EXISTING WASTEWATER GRAVITY LINE	PROPOSED SILT FENCE	LD	LIMITS OF DISTURBANCE	PROPOSED ROCK CHECK DAM	18FM	PROPOSED 18-INCH WATER MAIN	PROPOSED OUTLET PROTECTION	6FM	PROPOSED 6-INCH GRAVITY MAIN	PROPOSED EROSION CONTROL MATTING	6FM	PROPOSED 6-INCH FORCE MAIN	PROPOSED PERMANENT SEEDING	DFL	PROPOSED DITCH FLOW LINE				
18W	EXISTING WATER MAIN	PROPOSED CONCRETE WASHOUT	10WW	EXISTING WASTEWATER GRAVITY LINE	PROPOSED SILT FENCE	LD	LIMITS OF DISTURBANCE	PROPOSED ROCK CHECK DAM	18FM	PROPOSED 18-INCH WATER MAIN	PROPOSED OUTLET PROTECTION	6FM	PROPOSED 6-INCH GRAVITY MAIN	PROPOSED EROSION CONTROL MATTING	6FM	PROPOSED 6-INCH FORCE MAIN	PROPOSED PERMANENT SEEDING	DFL	PROPOSED DITCH FLOW LINE							
10WW	EXISTING WASTEWATER GRAVITY LINE	PROPOSED SILT FENCE	LD	LIMITS OF DISTURBANCE	PROPOSED ROCK CHECK DAM	18FM	PROPOSED 18-INCH WATER MAIN	PROPOSED OUTLET PROTECTION	6FM	PROPOSED 6-INCH GRAVITY MAIN	PROPOSED EROSION CONTROL MATTING	6FM	PROPOSED 6-INCH FORCE MAIN	PROPOSED PERMANENT SEEDING	DFL	PROPOSED DITCH FLOW LINE										
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18FM	PROPOSED 18-INCH WATER MAIN	PROPOSED OUTLET PROTECTION	6FM	PROPOSED 6-INCH GRAVITY MAIN	PROPOSED EROSION CONTROL MATTING	6FM	PROPOSED 6-INCH FORCE MAIN	PROPOSED PERMANENT SEEDING	DFL	PROPOSED DITCH FLOW LINE																
6FM	PROPOSED 6-INCH GRAVITY MAIN	PROPOSED EROSION CONTROL MATTING	6FM	PROPOSED 6-INCH FORCE MAIN	PROPOSED PERMANENT SEEDING	DFL	PROPOSED DITCH FLOW LINE																			
6FM	PROPOSED 6-INCH FORCE MAIN	PROPOSED PERMANENT SEEDING	DFL	PROPOSED DITCH FLOW LINE																						
DFL	PROPOSED DITCH FLOW LINE																									



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CONSTRUCTION SEQUENCE - PHASE II

1. ONCE ALL PERIMETER MEASURES ARE IN PLACE AS NOTED IN PHASE I, BEGIN REMOVAL OF ORGANIC MATERIAL.
2. BEGIN ROUGH GRADING OPERATIONS AND COMPACT ALL LAYERS OF FILL TO STRUCTURAL FILL STANDARDS.
3. INSTALL STORM DRAINAGE (SWALES AND PIPING) IN RELATION TO FINISH GRADES.
4. CUT IN THE FOOTING AND SLAB FOR THE PUMP STATION AND PARKING LOT SUB BASE AND PAVEMENT.
5. INSTALL EROSION CONTROL MATTING ON SLOPES TO BEGIN STABILIZATION.
6. TEMPORARY GRASSING AREAS TO BE INSTALLED AS NECESSARY TO MAINTAIN A STABLE SITE BEFORE PAVING AND PERMANENT SEEDING IN PHASE III.
7. MAINTAIN ALL EROSION AND SEDIMENT CONTROL DEVICES FOR THE EXTENT OF THE PROJECT.

OWNER INFORMATION
 DEVELOPER: CLARENDON COUNTY ECONOMIC DEVELOPMENT
 CONTACT: MR. GEORGE KOSINSKI, SCDEC EXECUTIVE DIRECTOR
 ADDRESS: 411 SUNSET DRIVE, MANNING, SOUTH CAROLINA 29102
 CITY, STATE: MANNING, SOUTH CAROLINA 29102
 TELEPHONE: (803) 435-8813
 EMAIL: GKOSINSKI@CLARENDONCOUNTYGOV.ORG

ENGINEER INFORMATION
 COMPANY: ALLIANCE CONSULTING ENGINEERS, INC.
 CONTACT: JOHN V. BURBAGE, P.E.
 ADDRESS: POST OFFICE BOX 8147, COLUMBIA, SOUTH CAROLINA 29202
 CITY, STATE: COLUMBIA, SOUTH CAROLINA 29202
 TELEPHONE: (803) 779-2078
 FAX: (803) 779-2079
 EMAIL: VBURBAGE@ALLIANCECE.COM

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REVISION		DATE
1	SCDHEC COMMENTS	JUNE 15, 2023
2	REALIGNMENT	SEPTEMBER 1, 2023

APPROVALS

ENGINEER	DESIGNER	TECHNICIAN	CHECKED BY	APPROVED
JVB	JVB	JVB	JVB	JVB

ALLIANCE CONSULTING ENGINEERS, INC.
 Alliance Consulting Engineers, Inc.
 No. 002854

DATE: 9/1/2023

ALLIANCE CONSULTING ENGINEERS, INC.
 Alliance Consulting Engineers, Inc.
 P.O. Box 8147
 Columbia, SC 29202
 Phone: (803) 779-2078 • Fax: (803) 779-2079

JOHN V. BURBAGE, P.E.
 PROFESSIONAL ENGINEER
 No. 40385

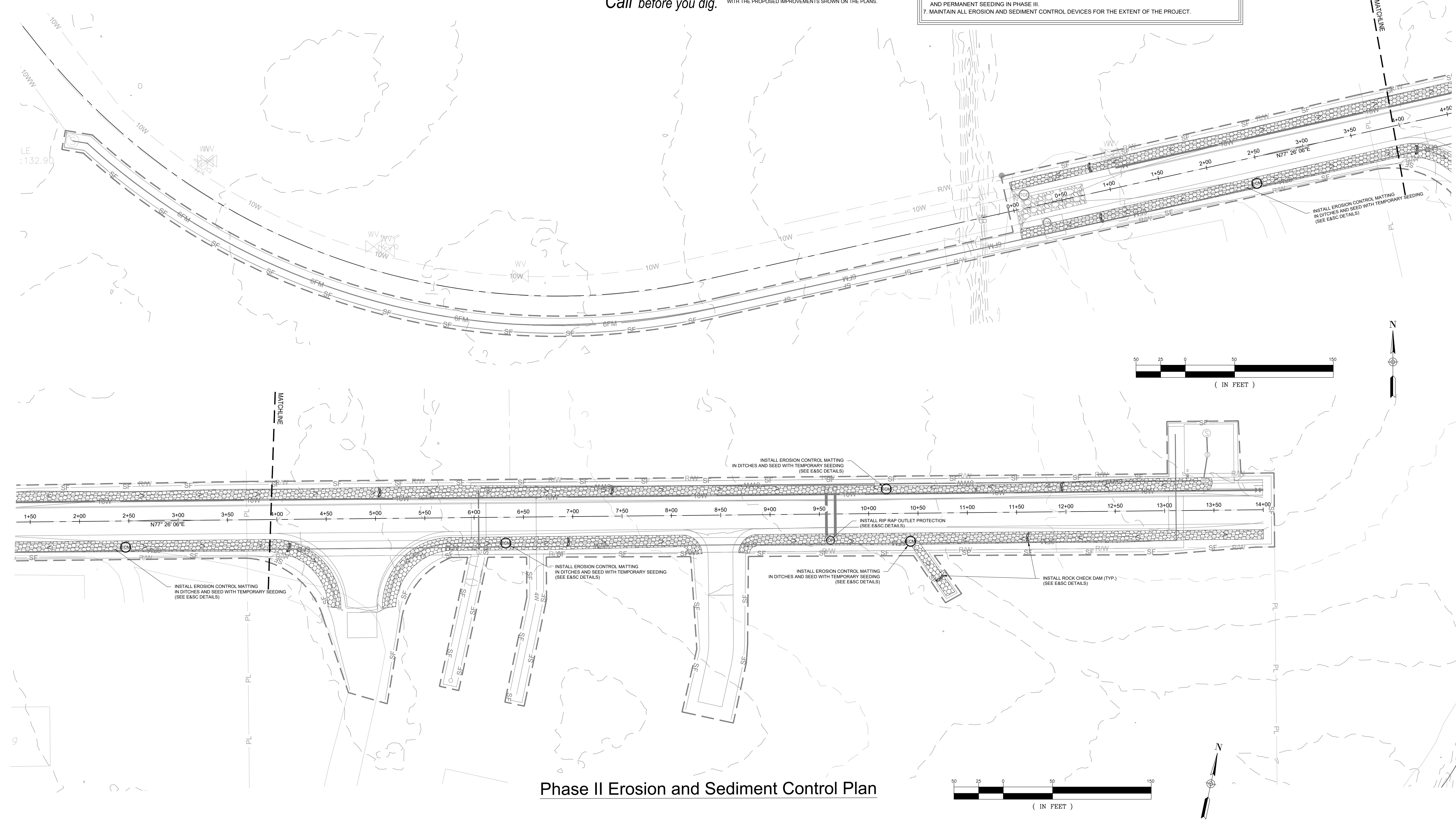
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PROJECT: ROADWAY, WATER, AND WASTEWATER IMPROVEMENTS TO JO ROGERS JR BOULEVARD TO SERVE THE CLARENDON COUNTY INDUSTRIAL PARK LOCATED IN UNINCORPORATED CLARENDON COUNTY, SOUTH CAROLINA

PHASE II
 EROSION AND SEDIMENT CONTROL PLAN

DATE: JANUARY 2023
 SCALE: 1" = 50'

FILE NAME:	C8.0.dwg	SHEET C8.1
REFERENCE FILE:	22201-BASE.dwg	
PROJECT NO.:	22201-0014	
DWG NO. 01.1598-D28		



Phase II Erosion and Sediment Control Plan

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November 13, 2023 - 8:03:32 PM S:\Projects\22201-0014_Roadway & WW\Improvement\Spec\Bldg No. 8 Clarendon Co Ind Pk Clarendon County\Construction Plans\C8.0 - Erosion and Sediment Control Plans.dwg

LEGEND			
— PL —	EXISTING PROPERTY LINE		PROPOSED PAVEMENT
— EA —	EXISTING ADJACENT PROPERTY LINE	— 135 —	PROPOSED CONTOUR MAJOR
— RW —	EXISTING RIGHT-OF-WAY	— 134 —	PROPOSED CONTOUR MINOR
— E —	EXISTING EASEMENT		PROPOSED STORM DRAINAGE PIPE
— GAS —	EXISTING GAS LINE		PROPOSED FLARED END SECTION
— OHE —	EXISTING OVERHEAD POWER LINE		PROPOSED CONSTRUCTION ENTRANCE
— 16W —	EXISTING WATER MAIN		PROPOSED CONCRETE WASHOUT
— 10WW —	EXISTING WASTEWATER GRAVITY LINE		PROPOSED SILT FENCE
---	LIMITS OF DISTURBANCE		PROPOSED ROCK CHECK DAM
— 16" WM —	PROPOSED 16-INCH WATER MAIN		PROPOSED OUTLET PROTECTION
— 6" GM —	PROPOSED 6-INCH GRAVITY MAIN		PROPOSED EROSION CONTROL MATTING
— 6" FM —	PROPOSED 6-INCH FORCE MAIN		PROPOSED PERMANENT SEEDING
— DFL —	PROPOSED DITCH FLOW LINE		



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ENGINEER INFORMATION

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REFERENCES:

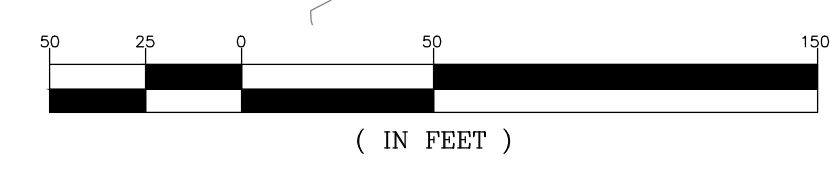
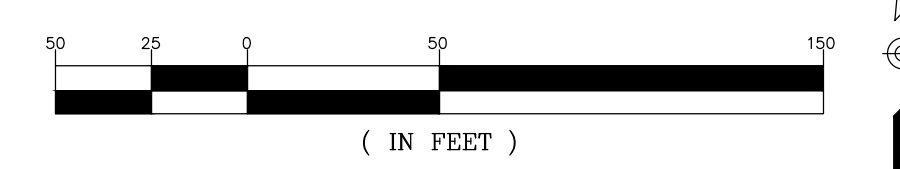
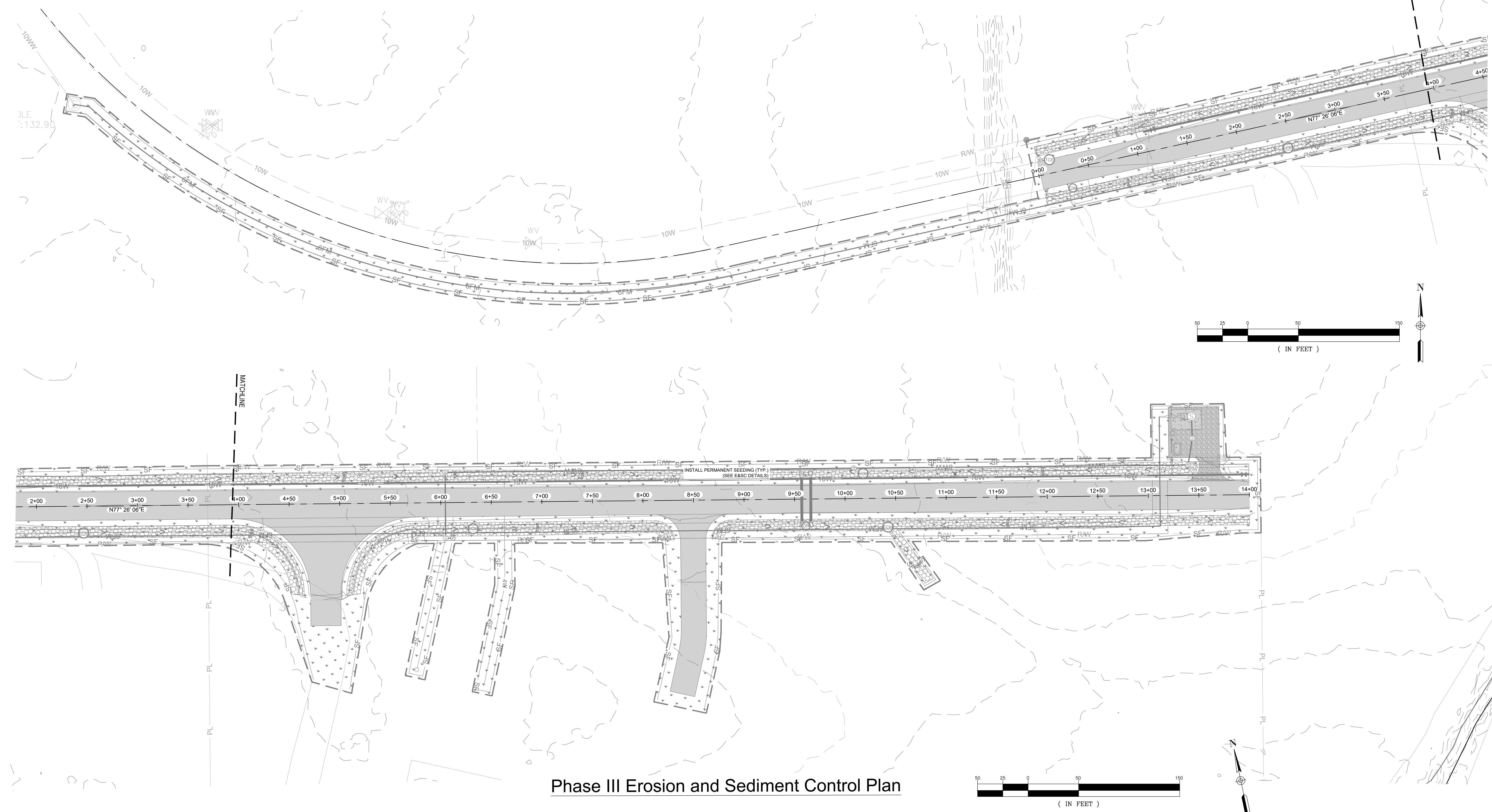
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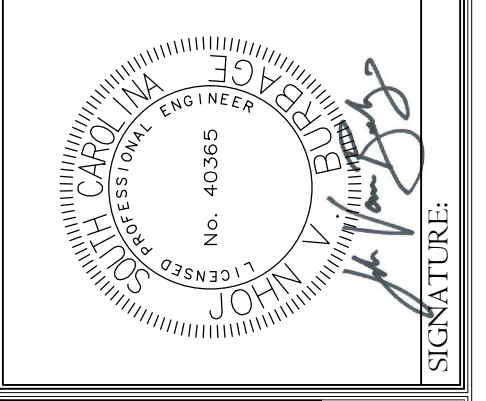
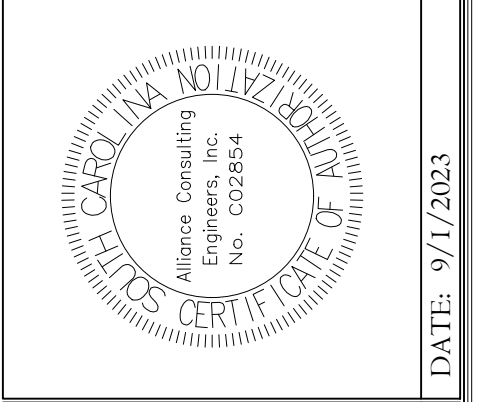
CONSTRUCTION SEQUENCE - PHASE III - STABILIZATION

- ONCE THAT THE SITE HAS BEEN GRADED PER THE PLANS, SITE STABILIZATION WILL BEGIN.
- INSTALL REMAINING RIP-RAP AND FILTER FABRIC AT OUTLET PIPING ON THE SITE.
- INSTALL ANY SLOPE MATTING THAT WAS NOT INSTALLED AS PART OF PHASE II.
- COMPLETE FINE GRADING AROUND THE PUMP STATION AFTER CONSTRUCTION IS COMPLETED.
- PREPARE SOIL AND INSTALL PERMANENT GRASSING AND MULCHING FOR FINAL STABILIZATION.
- MAINTAIN ALL EROSION AND SEDIMENT CONTROL DEVICES FOR THE EXTENT OF THE PROJECT.
- ONCE THE SITE STABILIZES, REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER ENTIRE AREA DRAINING TO THE STRUCTURE IS FINALLY STABILIZED (SCDHEC RECOMMENDS THAT THE PROJECT OWNER/OPERATOR HAVE THE SWPPP PREPARER (IF APPLICABLE) OR REGISTRATION EQUIVALENT APPROVE THE REMOVAL OF THE TEMPORARY STRUCTURES, OUTLET DEVICES, AND THE SKIMMER FOR THE OUTLET STRUCTURE IN EACH BASIN AS SHOWN ON FINAL GRADING SHEETS).
- SUBMIT NOTICE OF TERMINATION (NOT) AND AS-BUILT RECORD DRAWINGS TO SCDHEC ONCE THE SITE HAS ACHIEVED A MINIMUM OF 70% UNIFORM SITE STABILIZATION.



Phase III Erosion and Sediment Control Plan

REVISION DATE	
▲	SCDHEC COMMENTS
▲	JUNE 15, 2023
▲	REALIGNMENT
▲	SEPTEMBER 1, 2023



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 Alliance Consulting Engineers, Inc.
 P.O. Box 8147
 Columbia, South Carolina 29202-8147
 Phone: (803) 779-2078 • Fax: (803) 779-2079

PHASE III
 EROSION AND SEDIMENT
 CONTROL PLAN

DATE: JANUARY 2023 SCALE: 1" = 50'

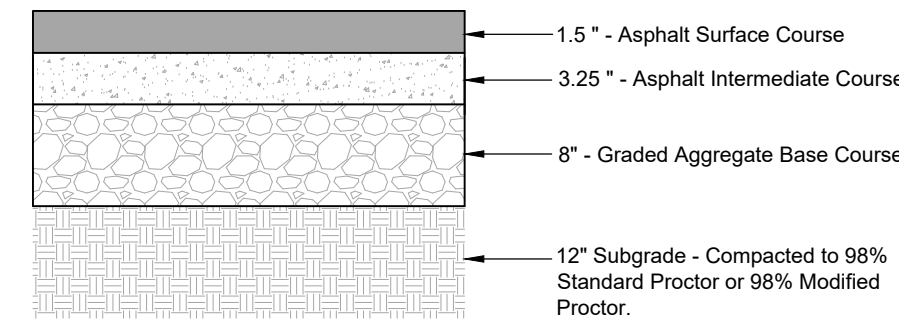
PROJECT
 ROADWAY, WATER, AND
 WASTEWATER IMPROVEMENTS TO
 JO ROGERS JR BOULEVARD TO SERVE
 THE CLARENDON COUNTY
 INDUSTRIAL PARK
 LOCATED IN UNINCORPORATED
 CLARENDON COUNTY,
 SOUTH CAROLINA

FILE NAME: C8.0.dwg	SHEET C8.2
REFERENCE FILE: 22201-BASE.dwg	
PROJECT NO. 22201-0014	

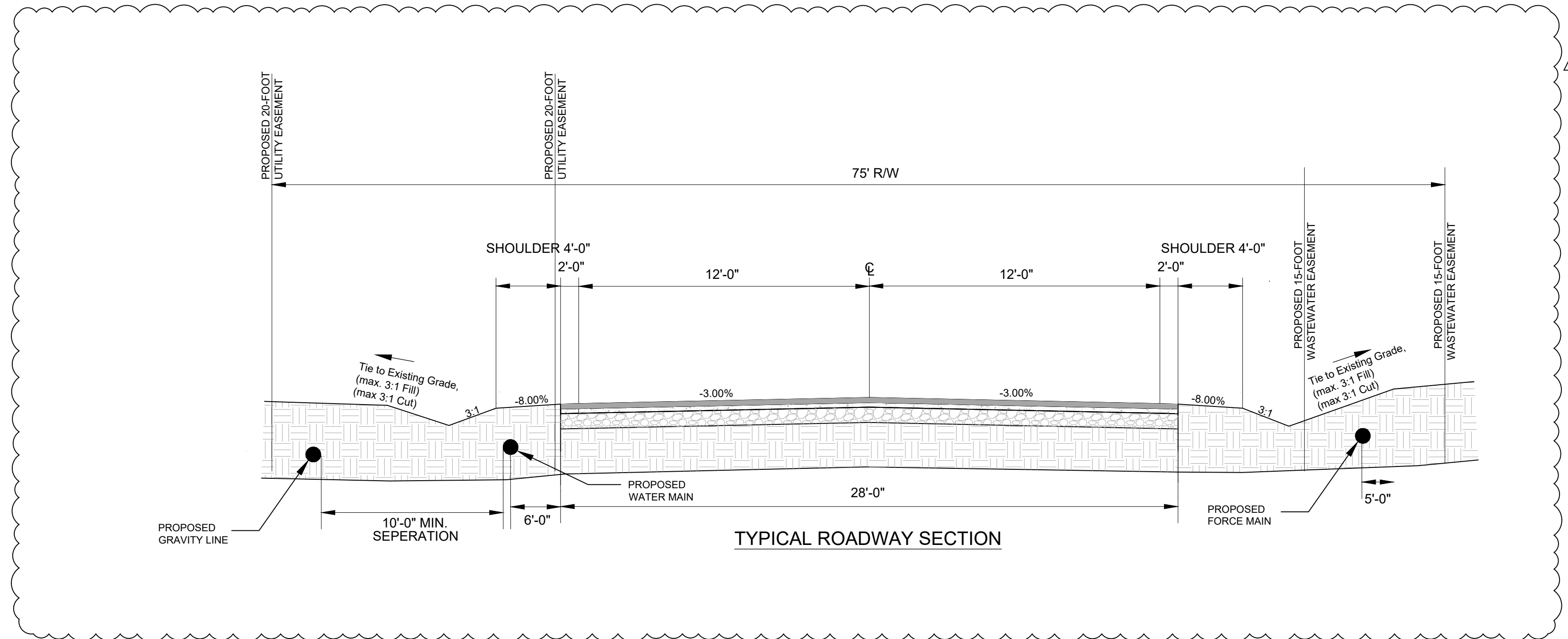
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October 31, 2023 - 2:10:20 PM S:\Projects\2201-0014 Rdwy W & WW Improv Spec Bldg No. 8 Clarendon Co. Ind Pk. Clarendon Colling\Construction Plans\ C9.0 - Roadway Details.dwg

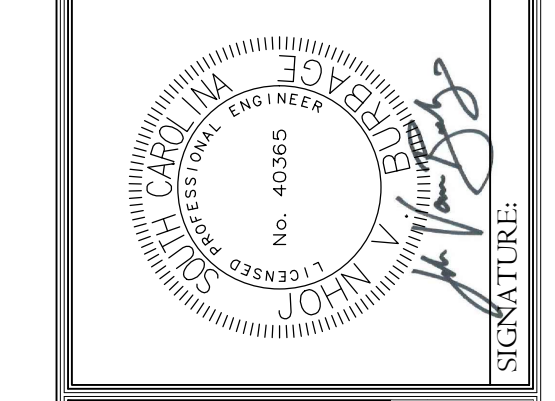
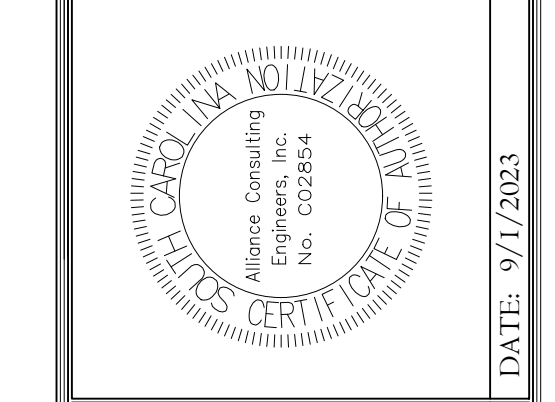


TYPICAL PAVEMENT SECTION
(NOT TO SCALE)



TYPICAL ROADWAY SECTION

REVISION DATE
SCDHEC COMMENTS
JUNE 15, 2023
REALIGNMENT
SEPTEMBER 1, 2023
APPROVALS
ENGINEER JVB
DESIGNER JVB
TECHNICIAN JVB
CHECKED BY JVB
DRAWN BY JVB
APPROVED BY JVB



ALLIANCE CONSULTING ENGINEERS
Alliance Consulting Engineers, Inc.
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Columbia, South Carolina 29202-8147
Phone: (803) 779-2078 • Fax: (803) 779-2079

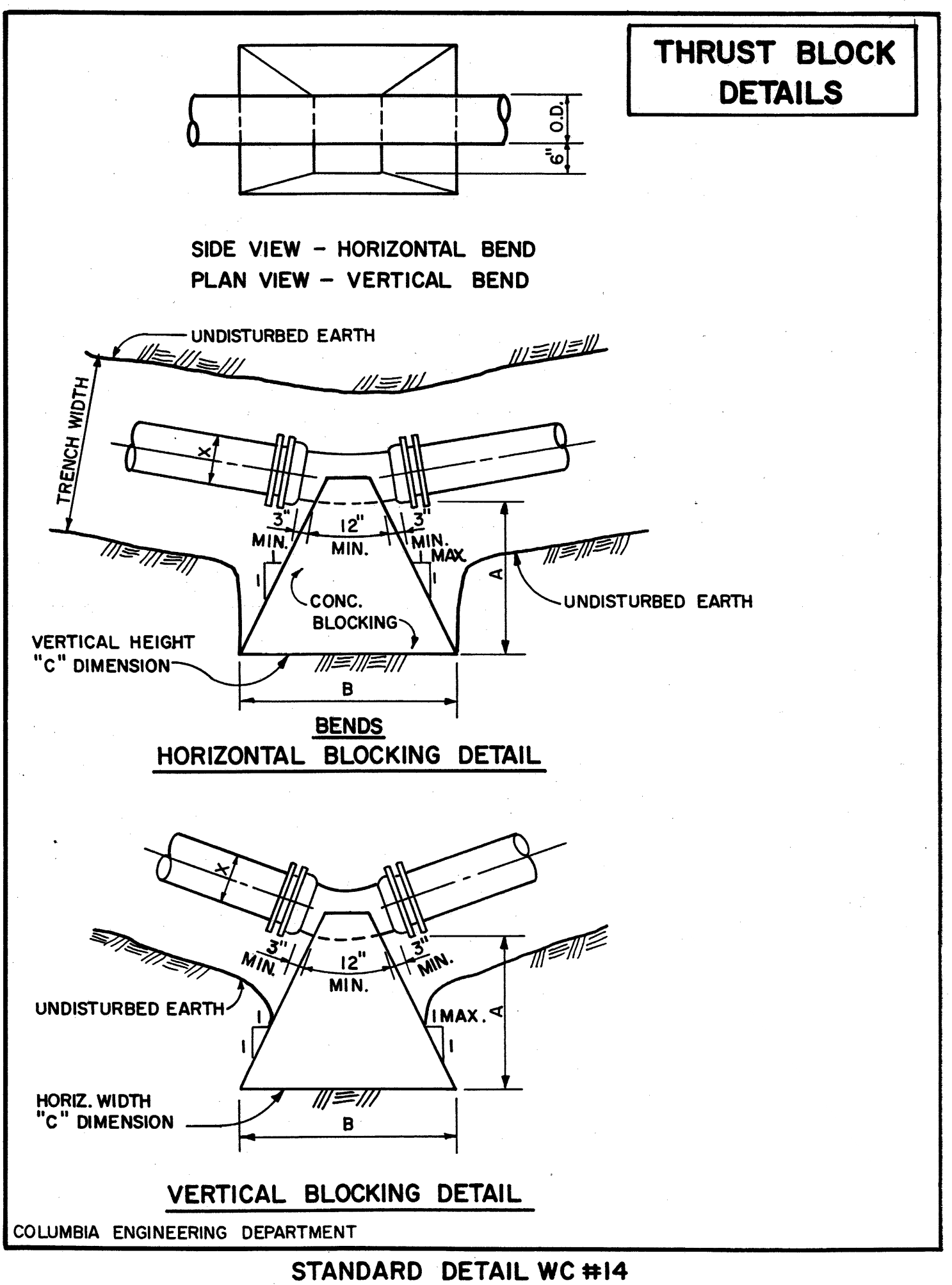
ROADWAY DETAILS
SCALE: AS SHOWN
DATE: JANUARY 2023

PROJECT
ROADWAY, WATER, AND WASTEWATER IMPROVEMENTS TO JO ROGERS JR BOULEVARD TO SERVE THE CLARENDON COUNTY INDUSTRIAL PARK LOCATED IN UNINCORPORATED CLARENDON COUNTY, SOUTH CAROLINA

FILE NAME:	C9.0.dwg
REFERENCE FILE:	22201-BASE.dwg
PROJECT NO.:	22201-0014
SHEET	C9.0

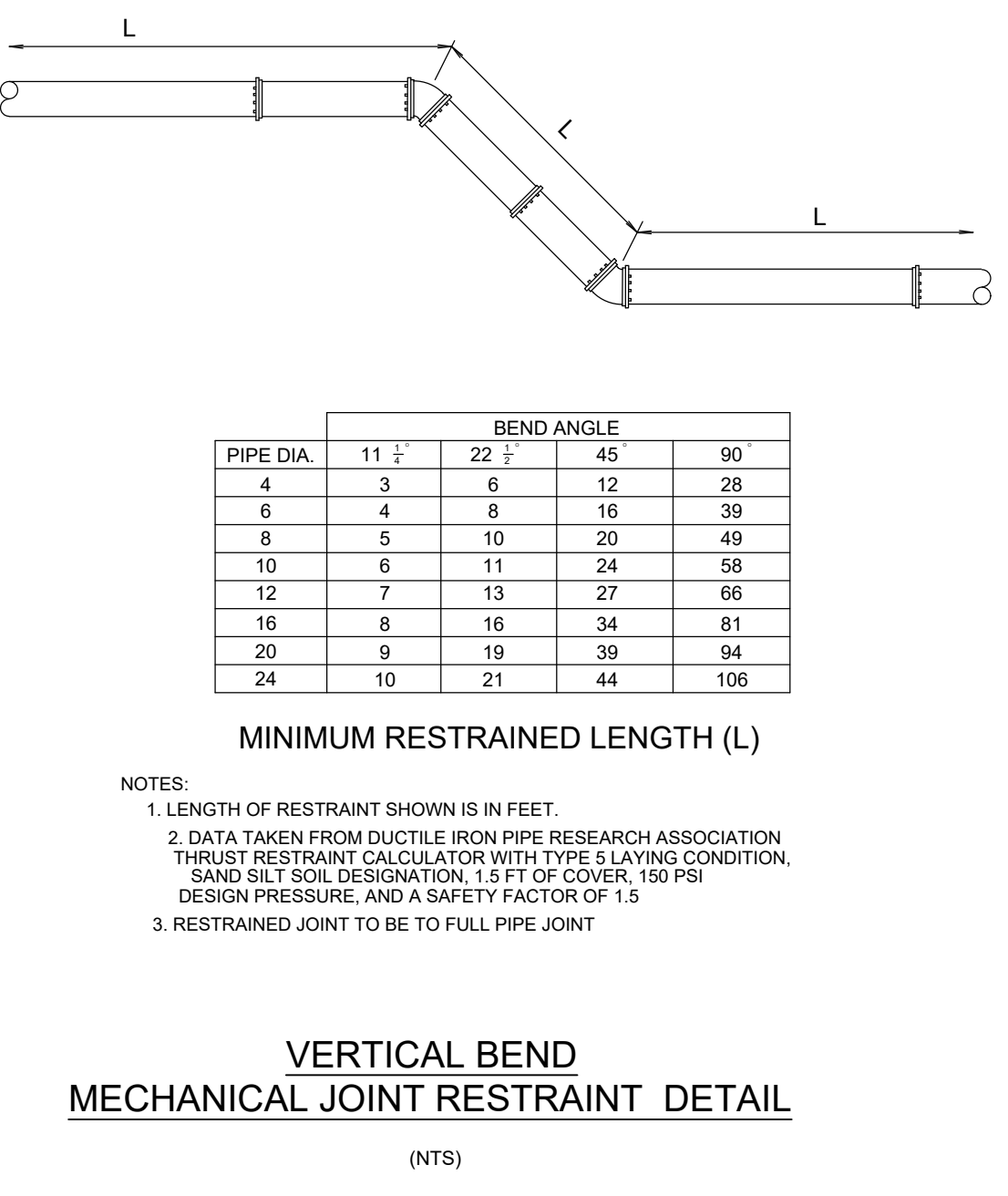
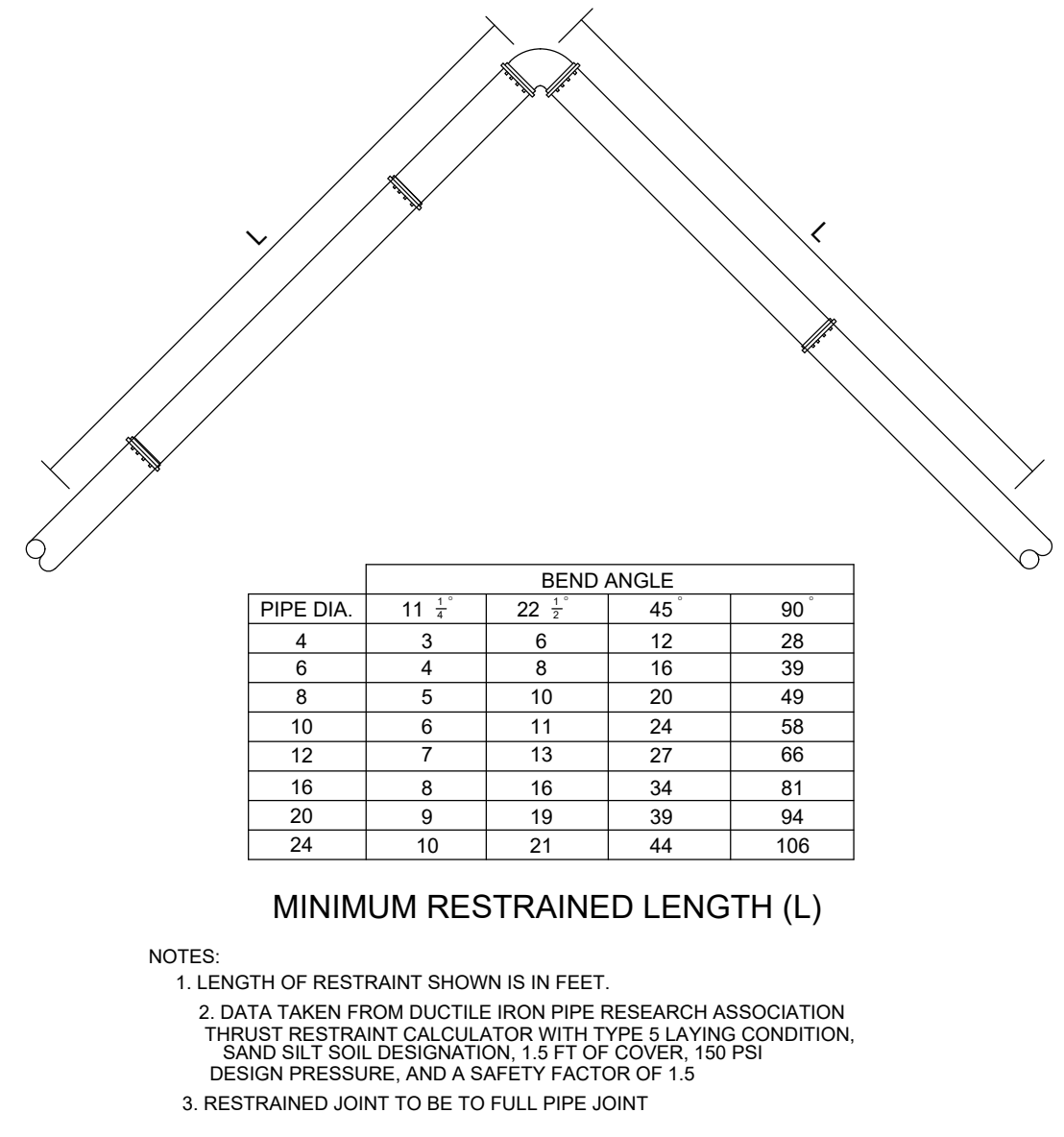
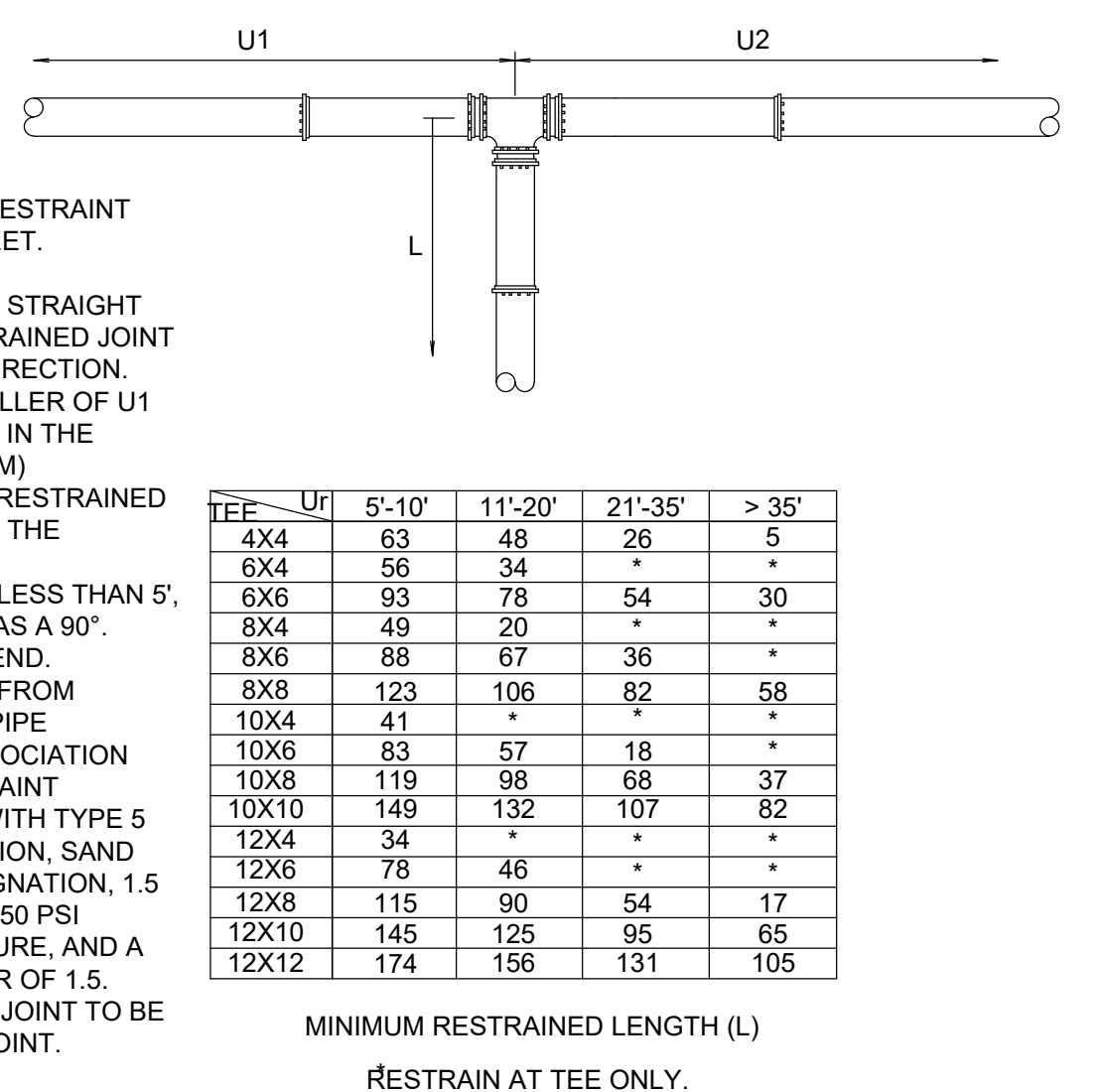
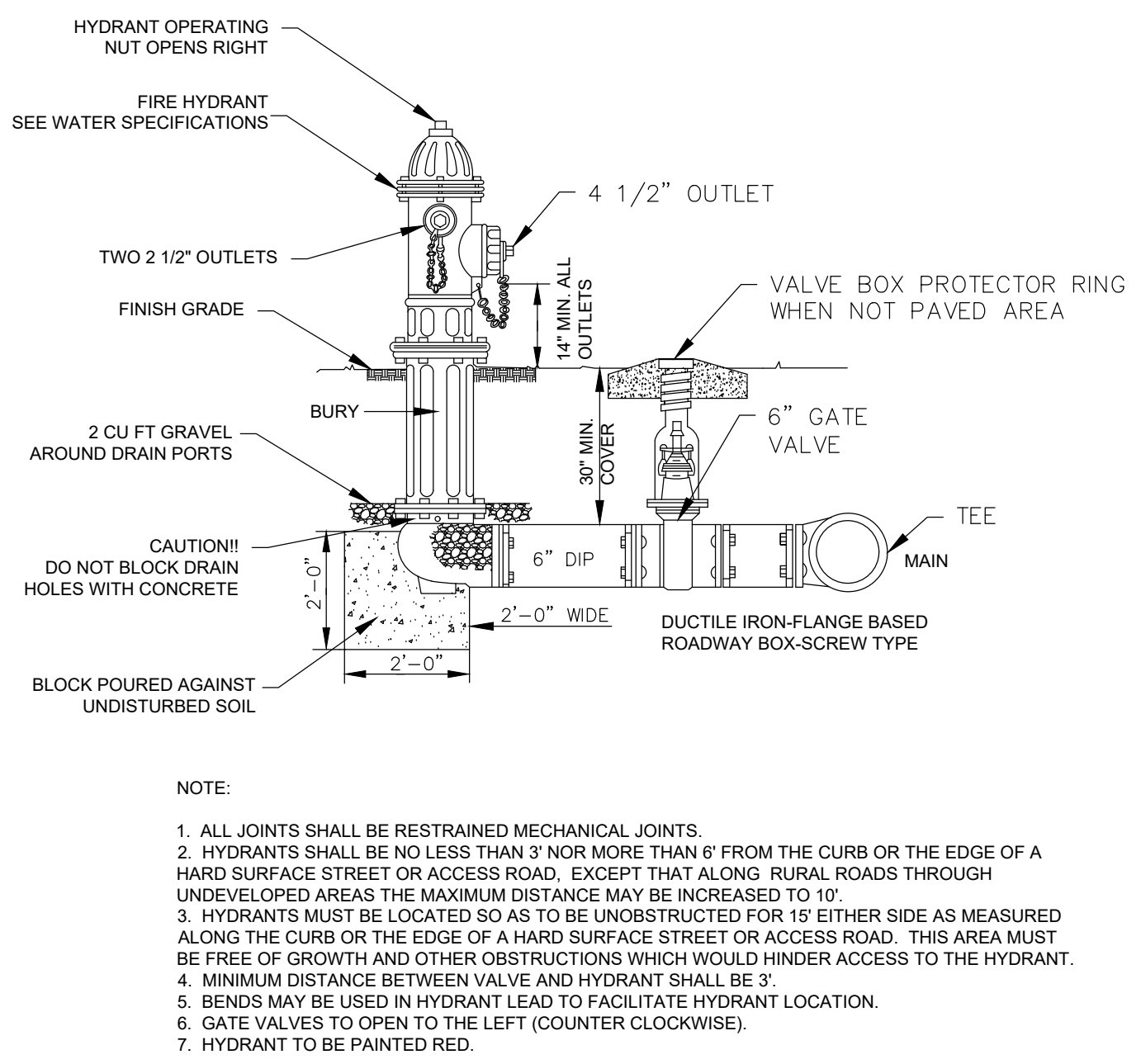
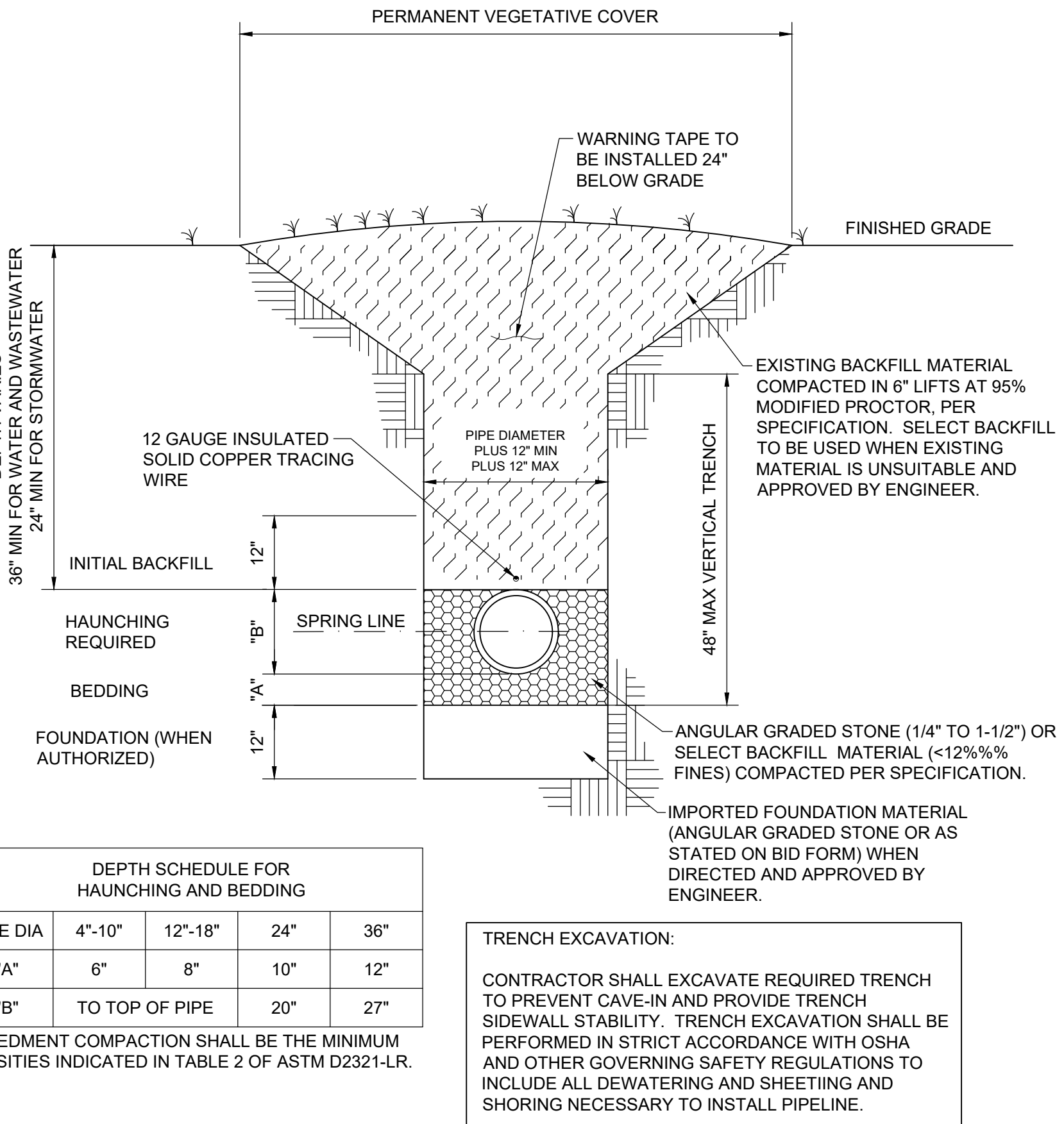
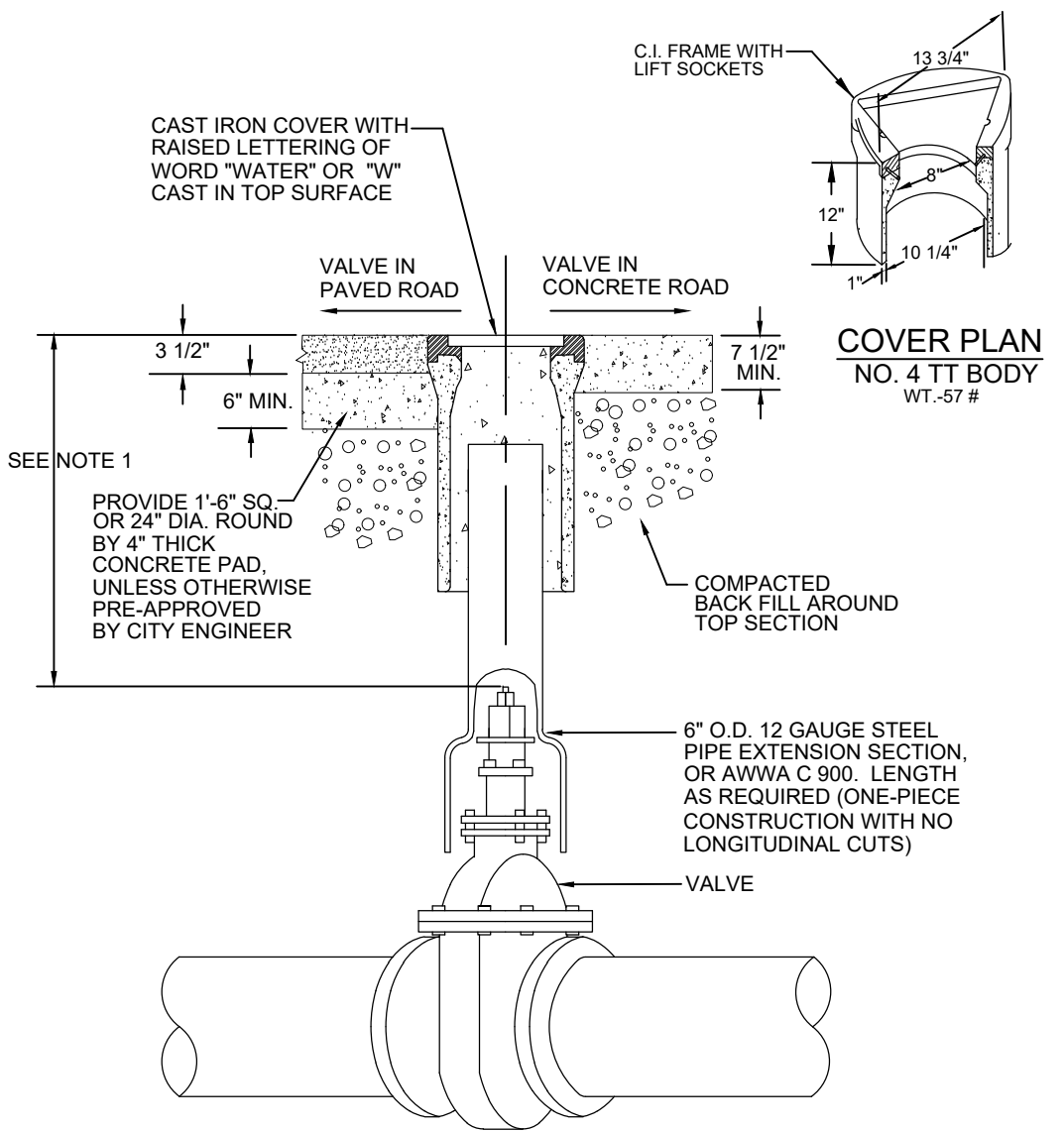
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CONCRETE BLOCKING DIMENSIONS					
PIPE SIZE X	A	B	C	MBA *2 (SQ. FT.)	*1
(* DENOTES BRANCH SIZE) TEES					
* 2" - 6"	2' - 0"	2' - 0"	1' - 4"	2.7	0.13
* 8"	2' - 0"	2' - 6"	1' - 10"	4.6	0.2
* 10"	2' - 6"	3' - 6"	2' - 0"	7	0.39
* 12"	2' - 6"	4' - 6"	2' - 3"	10.1	0.54
* 16"	3' - 0"	6' - 0"	2' - 10"	17	1.08
* 18"	3' - 0"	7' - 0"	3' - 0"	21	1.33
* 24"	4' - 0"	10' - 0"	3' - 9"	37.5	3.17
* 30"	5' - 0"	12' - 0"	4' - 10"	58	5.96
90 DEGREE BENDS					
2" - 6"	2' - 0"	2' - 9"	1' - 3"	3.4	0.16
8"	2' - 0"	3' - 3"	2' - 0"	6.5	0.28
10"	2' - 6"	4' - 0"	2' - 6"	10	0.53
12"	2' - 6"	5' - 0"	2' - 9"	13.8	0.73
16"	3' - 0"	6' - 0"	4' - 0"	24	1.5
18"	3' - 0"	7' - 0"	4' - 0"	29.3	1.85
24"	4' - 6"	12' - 0"	4' - 5"	53	4.94
30"	6' - 0"	14' - 0"	5' - 10"	81.7	9.97
45 DEGREE BENDS					
2" - 6"	2' - 0"	2' - 0"	1' - 0"	2	0.11
8"	2' - 0"	2' - 6"	1' - 5"	3.5	0.17
10"	2' - 6"	3' - 6"	1' - 6"	5.2	0.29
12"	2' - 6"	4' - 6"	1' - 8"	7.5	0.4
16"	3' - 0"	6' - 0"	2' - 2"	13	0.8
18"	3' - 0"	6' - 4"	2' - 6"	15.8	1.1
24"	3' - 0"	6' - 9"	4' - 3"	28.7	1.75
30"	3' - 6"	9' - 3"	4' - 9"	43.9	3.22
22 1/2 DEGREE BENDS					
2" - 6"	2' - 0"	1' - 0"	1' - 0"	1	0.08
8"	2' - 0"	1' - 3"	1' - 0"	1.7	0.11
10"	2' - 6"	2' - 3"	1' - 3"	2.8	0.19
12"	2' - 6"	2' - 6"	1' - 6"	3.7	0.24
16"	3' - 0"	3' - 0"	2' - 3"	6.5	0.48
18"	3' - 0"	3' - 4"	2' - 6"	8.3	0.68
24"	3' - 0"	4' - 6"	3' - 5"	15.4	1.04
30"	3' - 6"	5' - 0"	4' - 6"	22.5	1.93
11 1/4 DEGREE BENDS					
2" - 6"	2' - 0"	1' - 0"	0' - 6"	0.5	0.06
8"	2' - 0"	1' - 3"	0' - 9"	0.9	0.08
10"	2' - 6"	1' - 6"	1' - 0"	1.5	0.14
12"	2' - 6"	2' - 0"	1' - 0"	2	0.17
16"	3' - 0"	2' - 6"	1' - 4"	3.3	0.3
18"	3' - 0"	2' - 9"	1' - 6"	4.1	0.38
24"	3' - 0"	3' - 3"	2' - 3"	7.3	0.65
30"	3' - 6"	3' - 9"	3' - 0"	11.2	1.22

*1 - ESTIMATED C.Y. CONC. FOR TEES & BENDS
*2 - MINIMUM BEARING AREA (MBA) IS BASED ON SOIL BEARING CAPACITY OF 2000 PSF.



REVISION DATE	SCDHEC COMMENTS
JUNE 15, 2023	REALIGNMENT
SEPTEMBER 1, 2023	
APPROVALS	DESIGNER
ENGINEER	TECHNICIAN
INVR	CHECKED BY
YJV	DMN
YJV	APPROVED
YJV	ISC

ALLIANCE CONSULTING ENGINEERS, INC.

Professional Engineer

No. 40385

Signature: [Signature]

DATE: 9/1/2023

ALLIANCE CONSULTING ENGINEERS

Alliance Consulting Engineers, Inc.

1000 South Carolina Blvd., Suite 200, Columbia, SC 29202-8147

Phone: (803) 779-2078 • Fax: (803) 779-2079

WATER MAIN DETAILS

ROADWAY, WATER, AND WASTEWATER IMPROVEMENTS TO JO ROGERS JR BOULEVARD TO SERVE THE CLARENDON COUNTY INDUSTRIAL PARK LOCATED IN UNINCORPORATED CLARENDON COUNTY, SOUTH CAROLINA

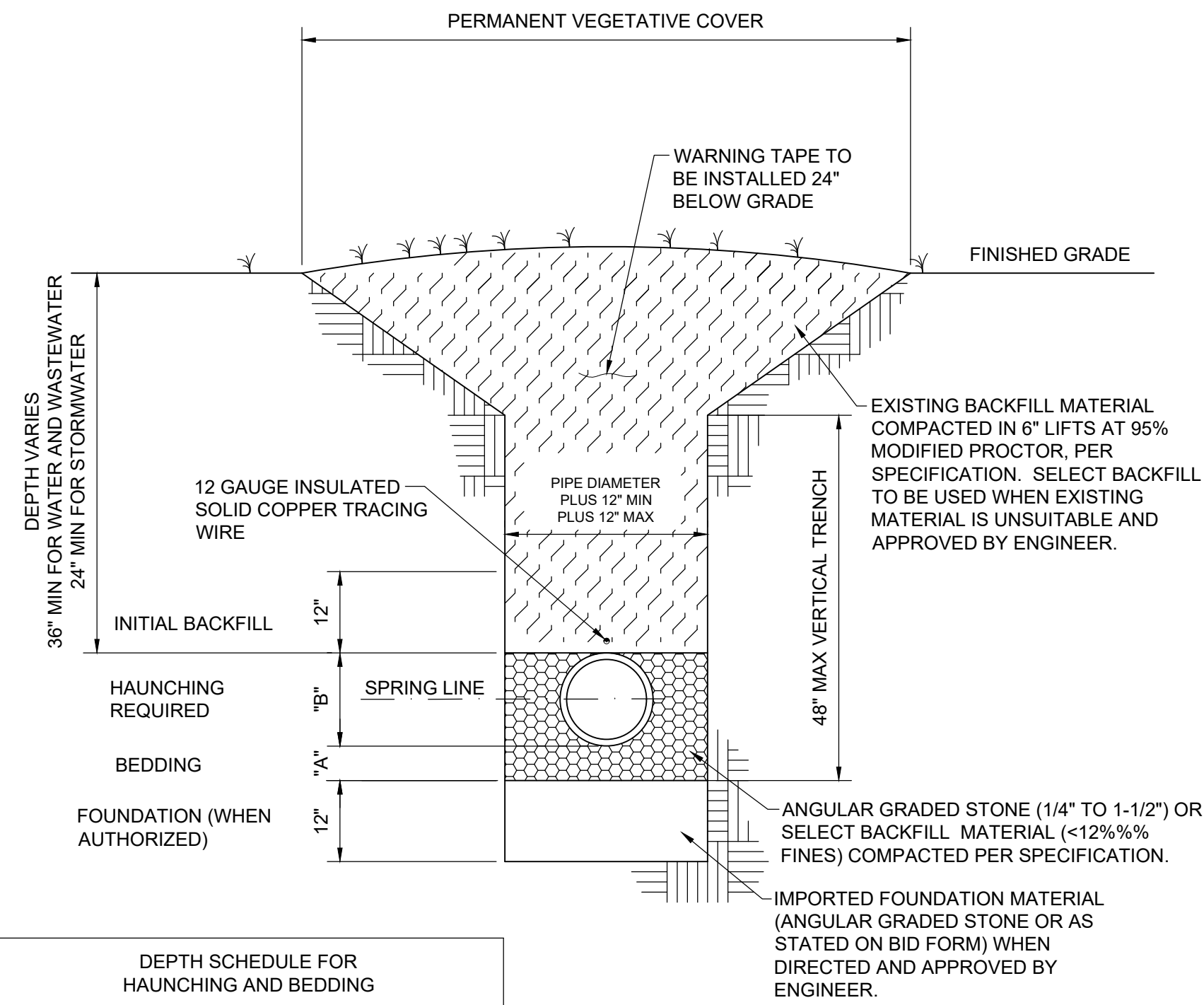
FILE NAME:	C10.0.dwg	SHEET C10.0
REFERENCE FILE:	22201-BASE.dwg	
PROJECT NO.:	22201-0014	

DWG NO. 01.1598-D28

October 31, 2023 - 2:11:15 PM S:\Projects\22201-0014 Hwy W & W W Improv Spec Bldg No. 8 Clarendon Co. Ind Pk. Clarendon Colling/Commuter/Plant C10.0 - Water Details.dwg

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October 31, 2023 - 2:23:31 PM S:\Projects\2201-0014 Edway W & WW Improv Spec Blue (No. 8) Clarendon Co. and Pk. Clarendon Colodg\Construction Plans\ C1110-C13.0 - Wastewater Details.dwg

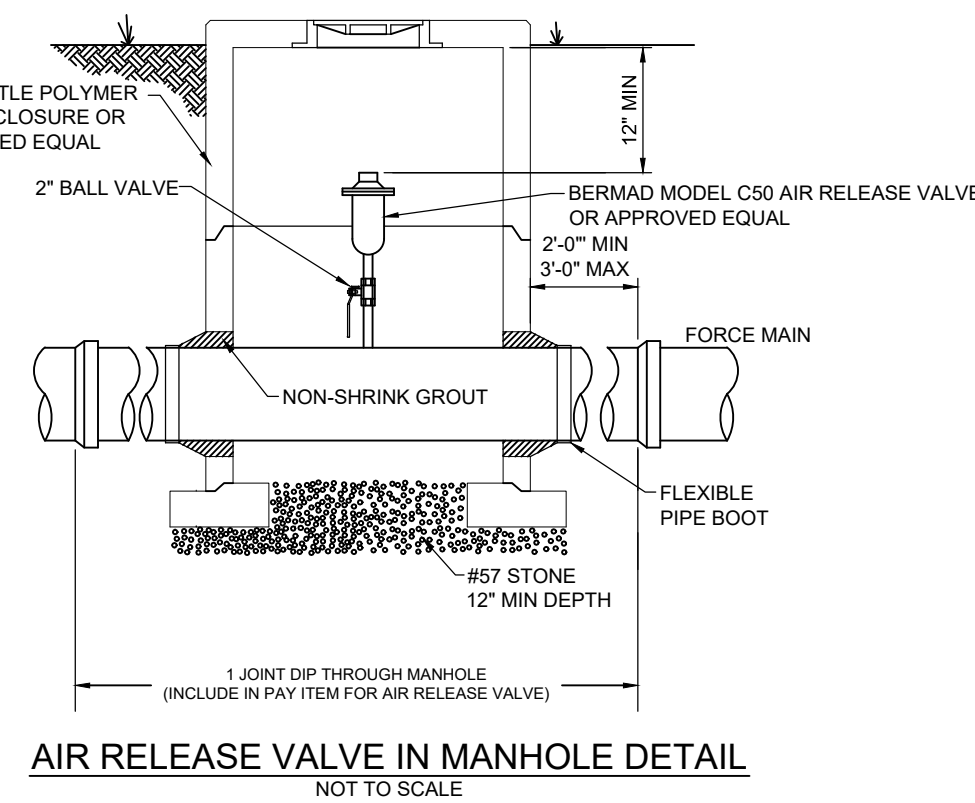


DEPTH SCHEDULE FOR HAUNCHING AND BEDDING				
PIPE DIA	4"-10"	12"-18"	24"	36"
"A"	6"	8"	10"	12"
"B"	TO TOP OF PIPE	20"	20"	27"

EMBEDMENT COMPACTION SHALL BE THE MINIMUM DENSITIES INDICATED IN TABLE 2 OF ASTM D2321-LR.

TRENCH EXCAVATION:
 CONTRACTOR SHALL EXCAVATE REQUIRED TRENCH TO PREVENT CAVE-IN AND PROVIDE TRENCH SIDEWALL STABILITY. TRENCH EXCAVATION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH OSHA AND OTHER GOVERNING SAFETY REGULATIONS TO INCLUDE ALL DEWATERING AND SHEETING AND SHORING NECESSARY TO INSTALL PIPELINE.

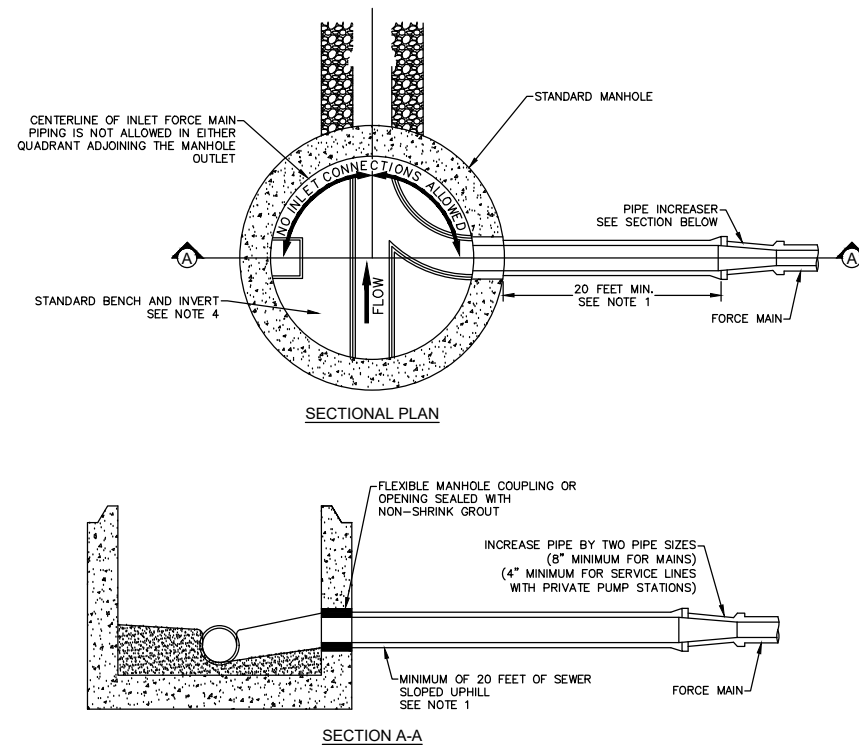
PIPELINE TRENCH DETAIL
NOT TO SCALE



AIR RELEASE VALVE IN MANHOLE DETAIL
NOT TO SCALE

NOTES:

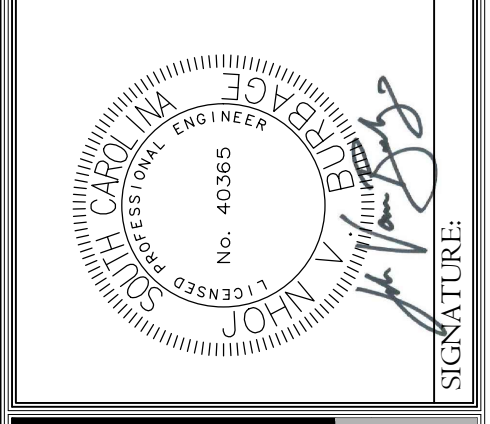
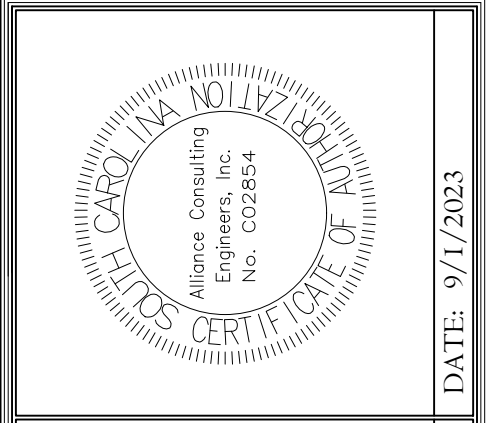
- THIS DETAIL DEPICTS THE TYPICAL ACCEPTABLE METHOD FOR CONNECTING FORCE MAINS TO EXISTING OR NEW MANHOLES ON THE GRAVITY PORTION OF THE SYSTEM. THE LATEST 30 FEET RUNWAY OF SEWER INCREASES IF PIPE SIZES FROM THE FORCE MAIN DIAMETER SHALL BE SLOPED UPWARD UNLESS OTHERWISE APPROVED BY ALLIANCE CONSULTING ENGINEERS, INC. THE EXISTING FORCE MAIN BE DETERMINED BY THE ENGINEER WITH THE INTENT OF KEEPING THE FORCE MAIN FULL. CORRECT ALL SLOPING CONDITIONS AND SLOPING TO MAINTAIN FLOW TO EXISTING THE MANHOLE TO REDUCE SURBURDENCE AND TO FACILITATE A SMOOTH, UNIFORM FLOW THROUGH THE MANHOLE AND JOINING ANY OTHER GRAVITY FLOW.
- FOR SMALLER FORCE MAINS WITH LITTLE FLOW, IT MAY BE NECESSARY TO PROVIDE A POSITIVE SEAM TO THE MANHOLE TO MAKE SURE THAT SOLIDS WILL FACE TO THE MANHOLE AND NOT SETTLE OUT.
- OTHER ALTERNATE DESIGNS FOR CONNECTING FORCE MAINS TO EXISTING MANHOLES MAY BE SUBMITTED TO ALLIANCE CONSULTING ENGINEERS, INC. FOR REVIEW AND CONSIDERATION. ANY SUCH ALTERNATE SHALL MANHOLE SURBURDENCE THROUGH THE MANHOLE AND PROVIDE FOR A SMOOTH, UNIFORM FLOW PATTERN.
- THE HEIGHT OF THE BENDING SHALL BE INCREASED FROM THE PRECEDING FROM OF THE PIPE AS NECESSARY AND/OR ALL BACKFILL IN THE BENT CHANNEL AS IT PASSES THROUGH THE MANHOLE. THE HEIGHT OF THE BEND/INVERT CHANNEL MAY HAVE TO BE UP TO 2 TIMES THE LARGEST PIPE CONNECTING TO THE MANHOLE.



EXISTING MANHOLE CONNECTION DETAIL
NOT TO SCALE

REVISION DATE	
▲	SCDHEC COMMENTS
▲	JUNE 15, 2023
▲	REALIGNMENT
▲	SEPTEMBER 1, 2023

APPROVALS	ENGINEER	DESIGNER	TECHNICIAN	CHECKED BY	APPROVED
	JVB	JYH	JVB	DBSN	ISM



DATE: 9/1/2023

SIGNATURE:

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 Alliance Consulting Engineers, Inc.
 P.O. Office Box # 29202-8147
 Columbia, South Carolina • Fax (803) 779-2079
 Phone (803) 779-2078

PROJECT: WASTEWATER FORCE MAIN DETAILS

DATE: JANUARY 2023

SCALE: AS SHOWN

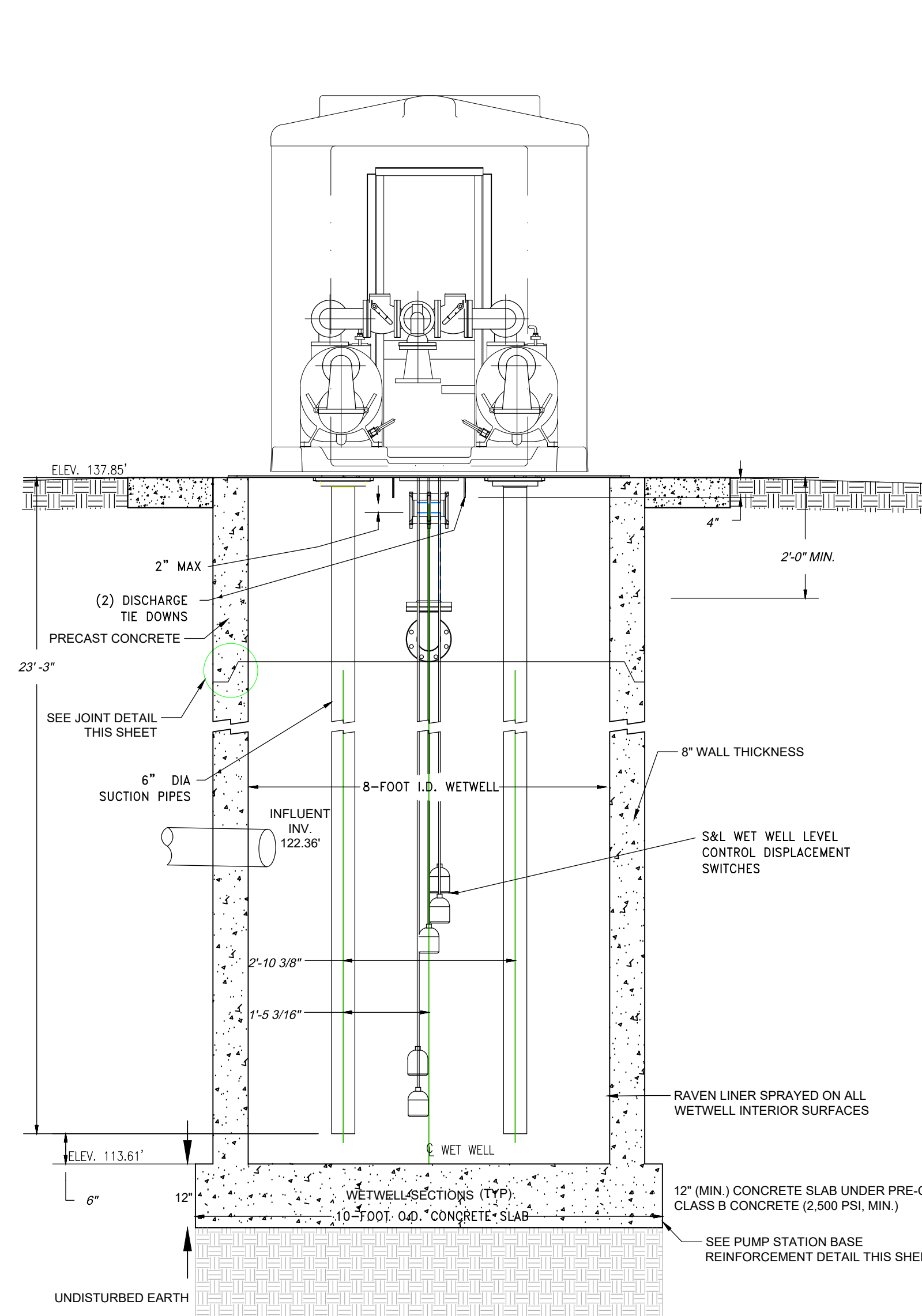
ROADWAY, WATER, AND WASTEWATER IMPROVEMENTS TO JO ROGERS JR BOULEVARD TO SERVE THE CLARENDON COUNTY INDUSTRIAL PARK LOCATED IN UNINCORPORATED CLARENDON COUNTY, SOUTH CAROLINA

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PROJECT NO.:	22201-0014	

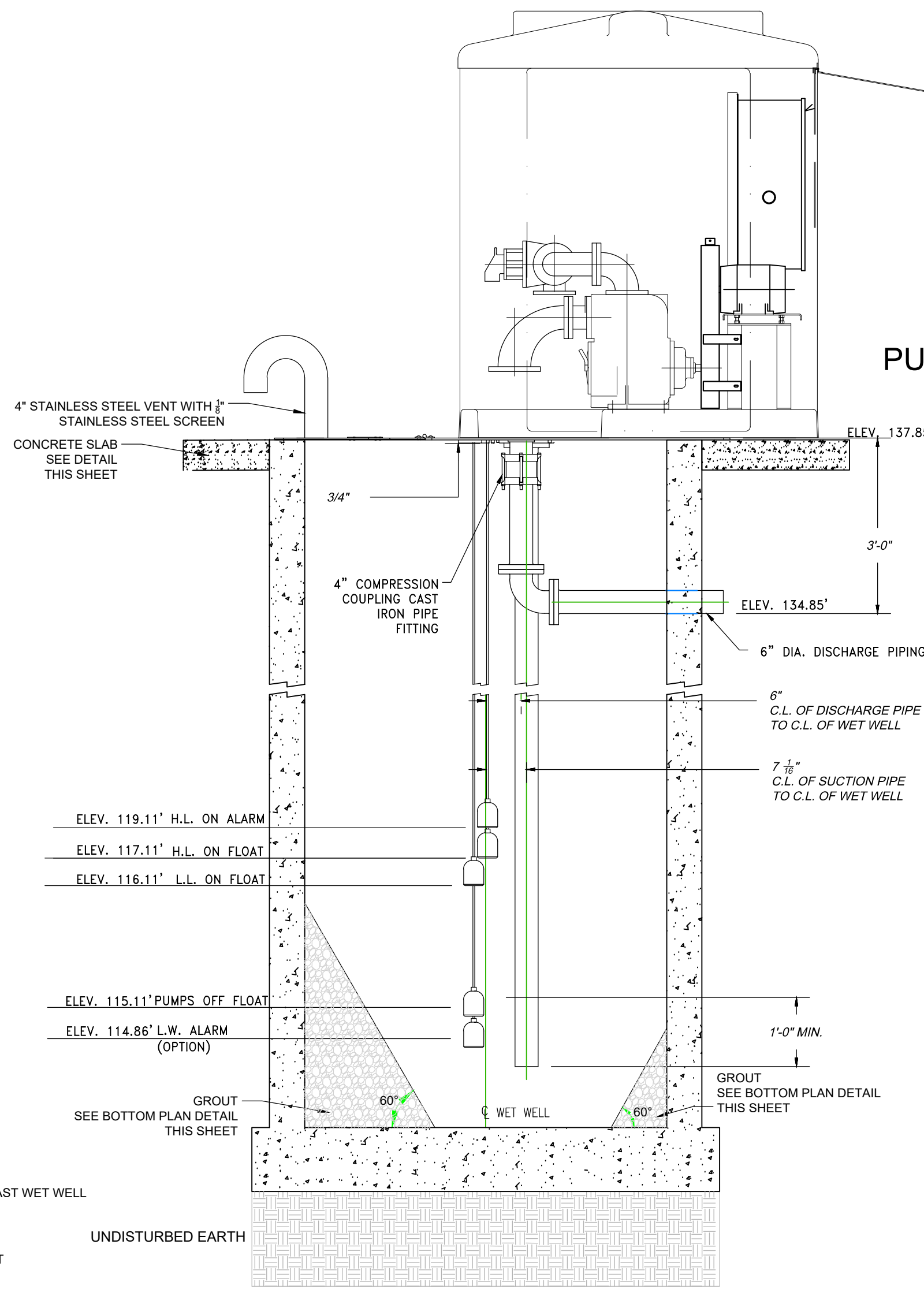
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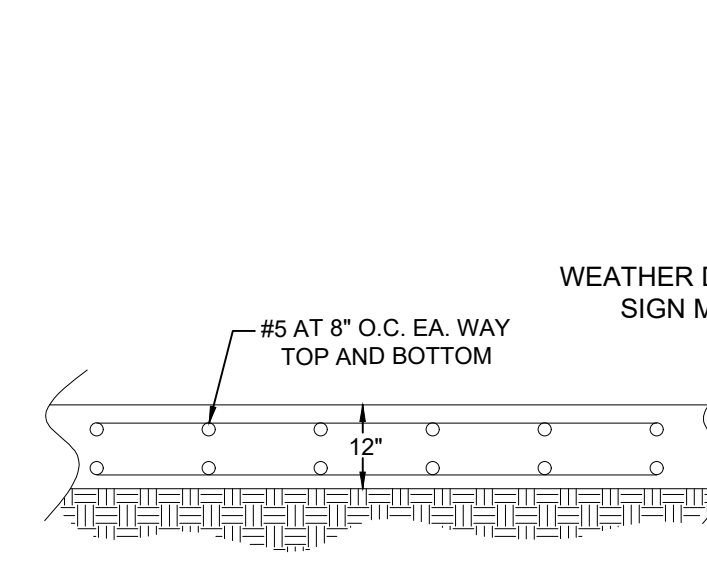
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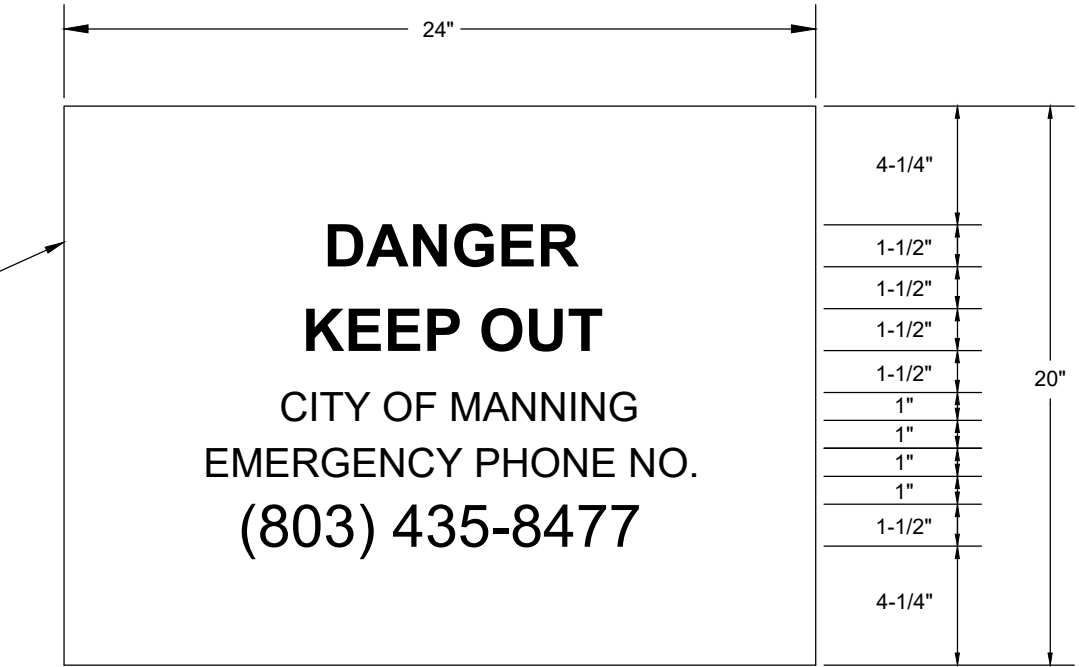
SECTION A-A PUMP STATION DETAILS
N.T.S.



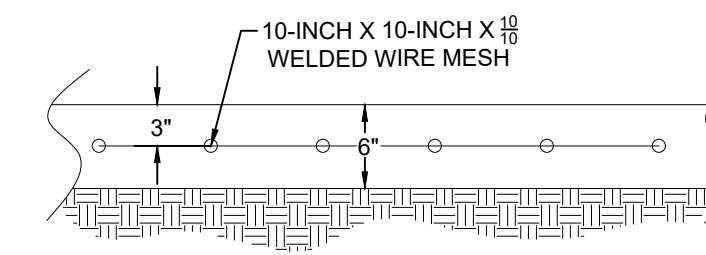
CROSS SECTION PUMP STATION DETAILS
N.T.S.



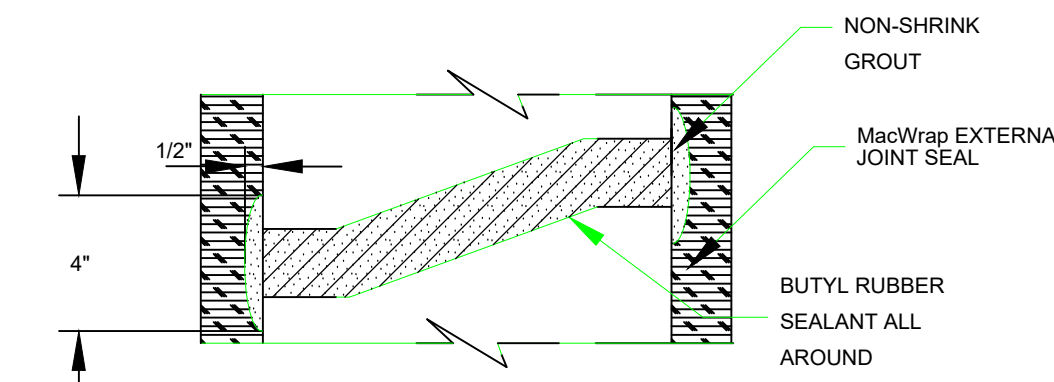
PUMP STATION BASE AND GENERATOR PAD REINFORCEMENT DETAIL
N.T.S.



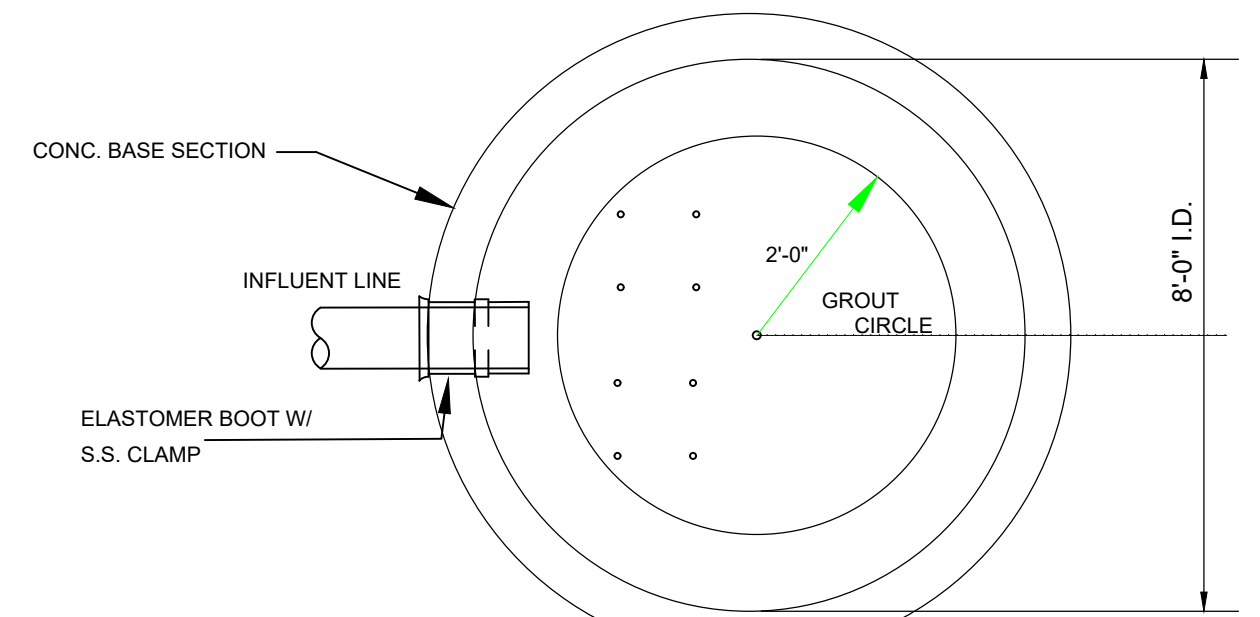
CONTACT INFORMATION SIGN DETAIL
N.T.S.



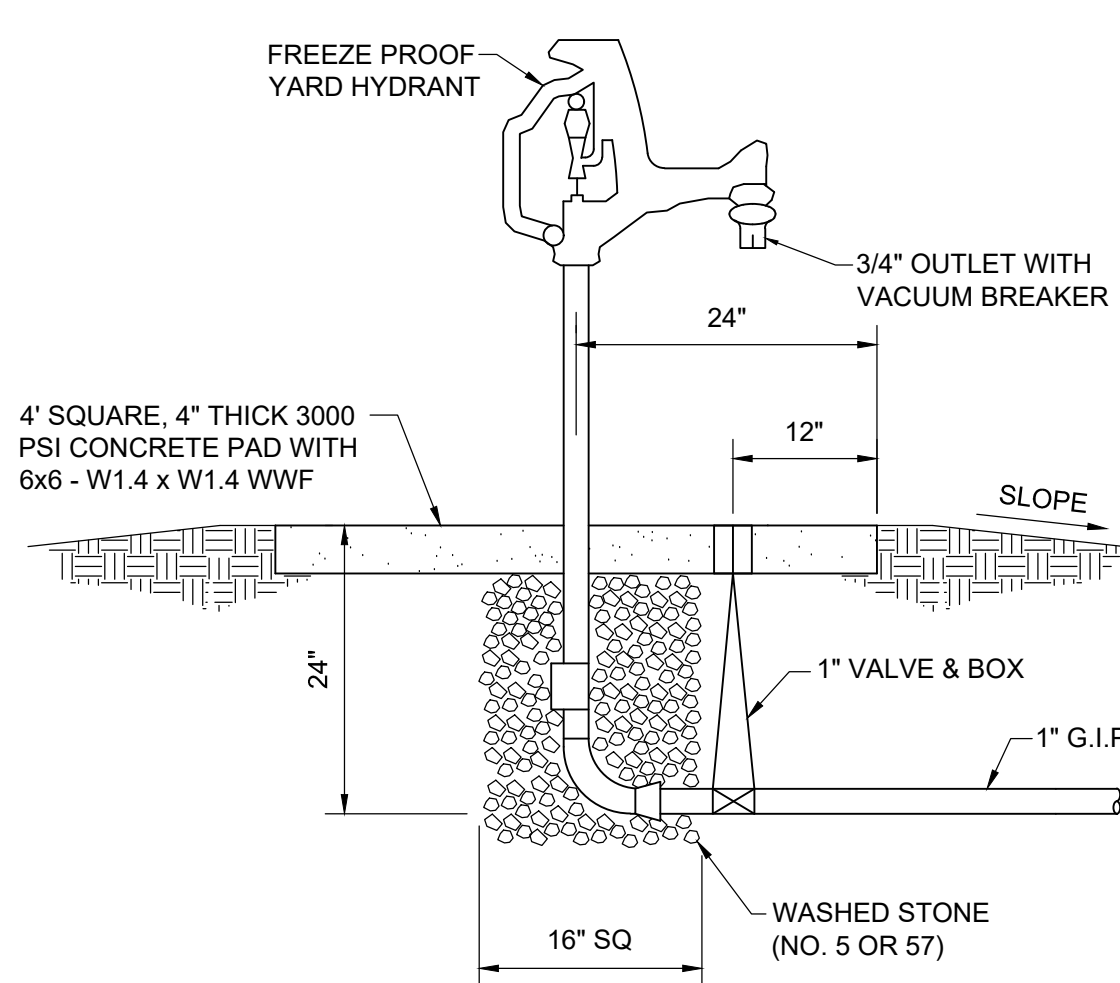
CONCRETE SLAB DETAIL
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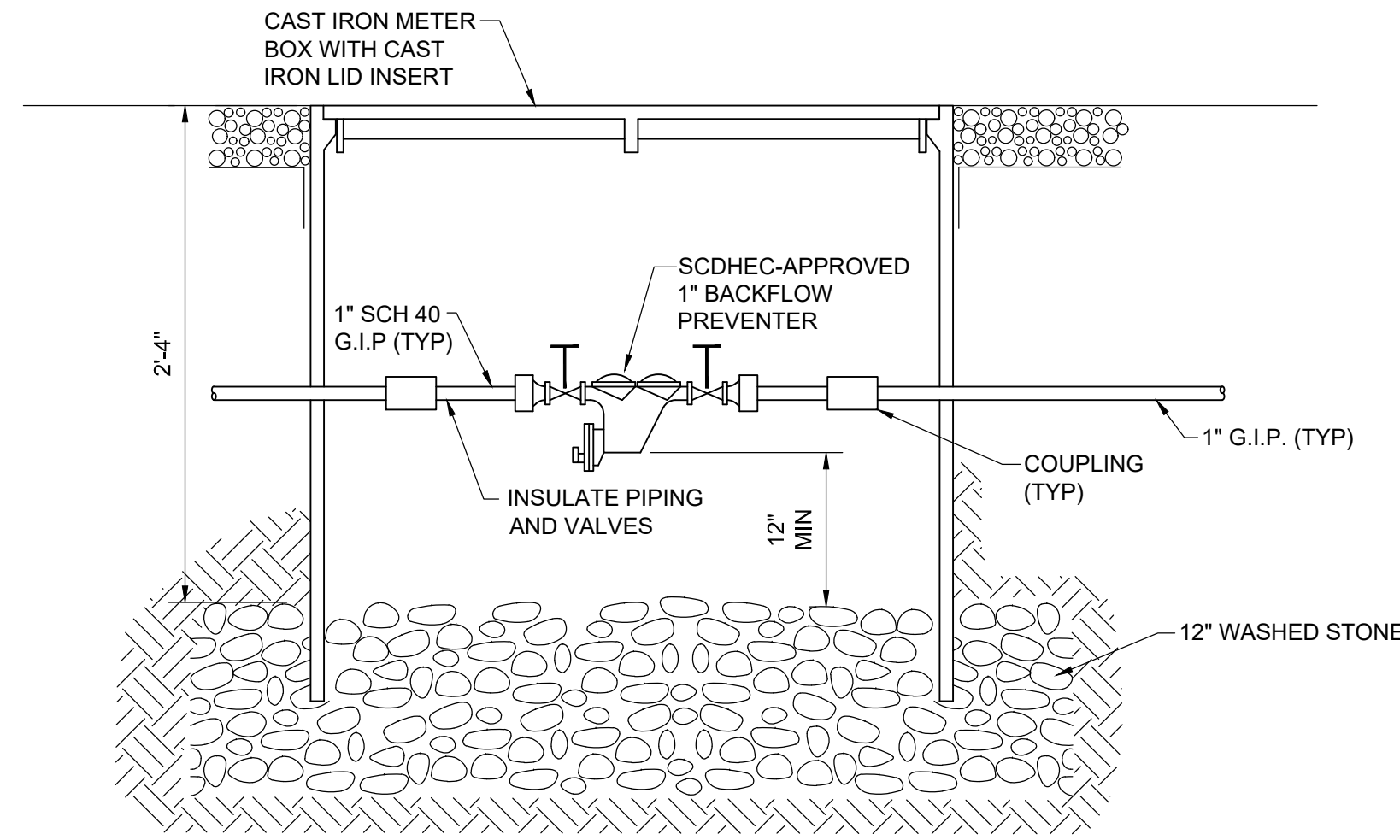
JOINT DETAIL
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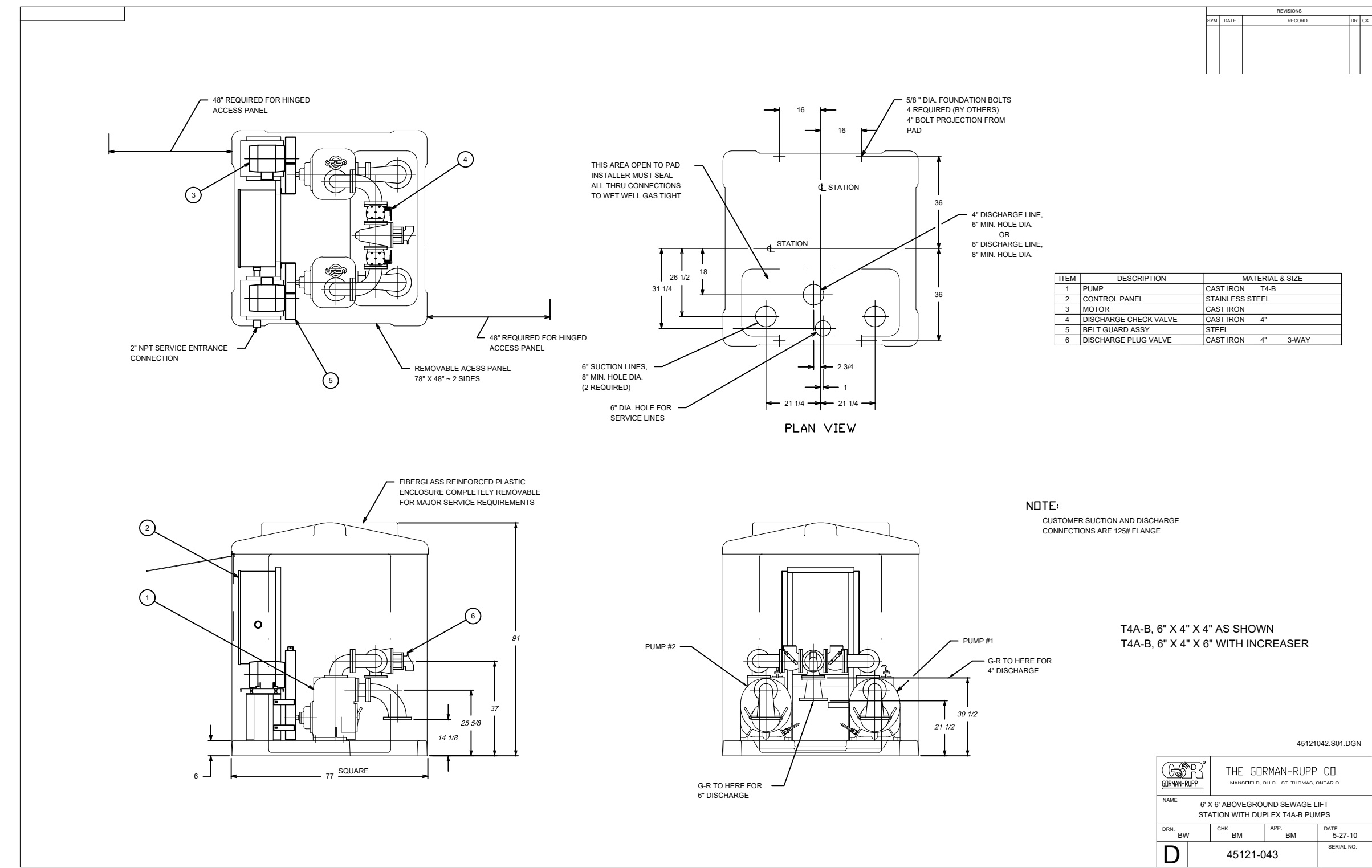
BOTTOM PLAN
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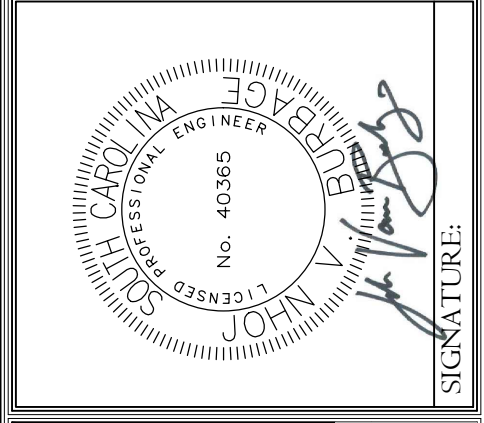
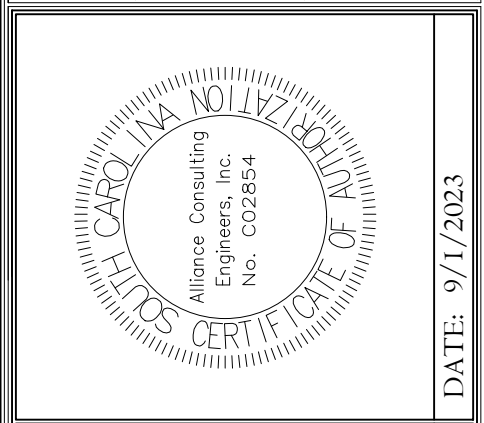
YARD HYDRANT DETAIL
NOT TO SCALE



DUAL CHECK BACKFLOW PREVENTER
NOT TO SCALE



REVISION DATE	
SCDHEC COMMENTS	
JUNE 15, 2023	
REALIGNMENT	
SEPTEMBER 1, 2023	
APPROVALS	
ENGINEER	JVB
DESIGNER	JVB
TECHNICIAN	JVB
CHECKED BY	JVB
APPROVED	ISC



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PUMP STATION DETAILS
SCALE: AS SHOWN
DATE: JANUARY 2023

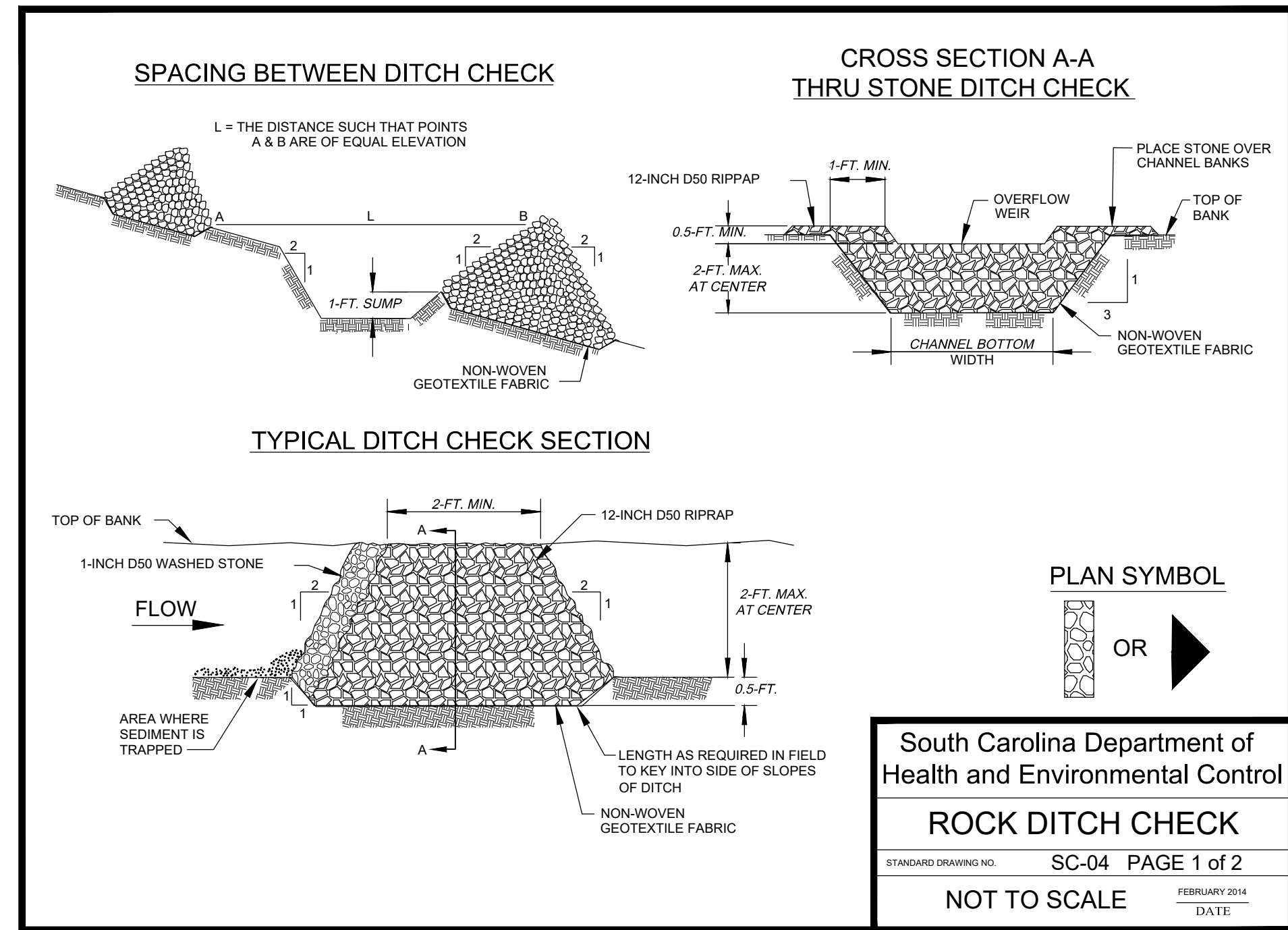
PROJECT
ROADWAY, WATER, AND WASTEWATER IMPROVEMENTS TO JO ROGERS JR BOULEVARD TO SERVE THE CLARENDON COUNTY INDUSTRIAL PARK LOCATED IN UNINCORPORATED CLARENDON COUNTY, SOUTH CAROLINA

FILE NAME:	C13.0.dwg	SHEET
REFERENCE FILE:	22201-BASE.dwg	
PROJECT NO.:	22201-0014	C13.0

DWG NO. 01.1598-D28

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October 31, 2023 - 2:18:45 PM S:\Projects\22201-0014 Flowy W & WW Improv Spec Bldg No. 8 Clarendon Co. Ind Pk. Clarendon Colling/Construction Plans\ C14.0 - Erosion Control Details.dwg



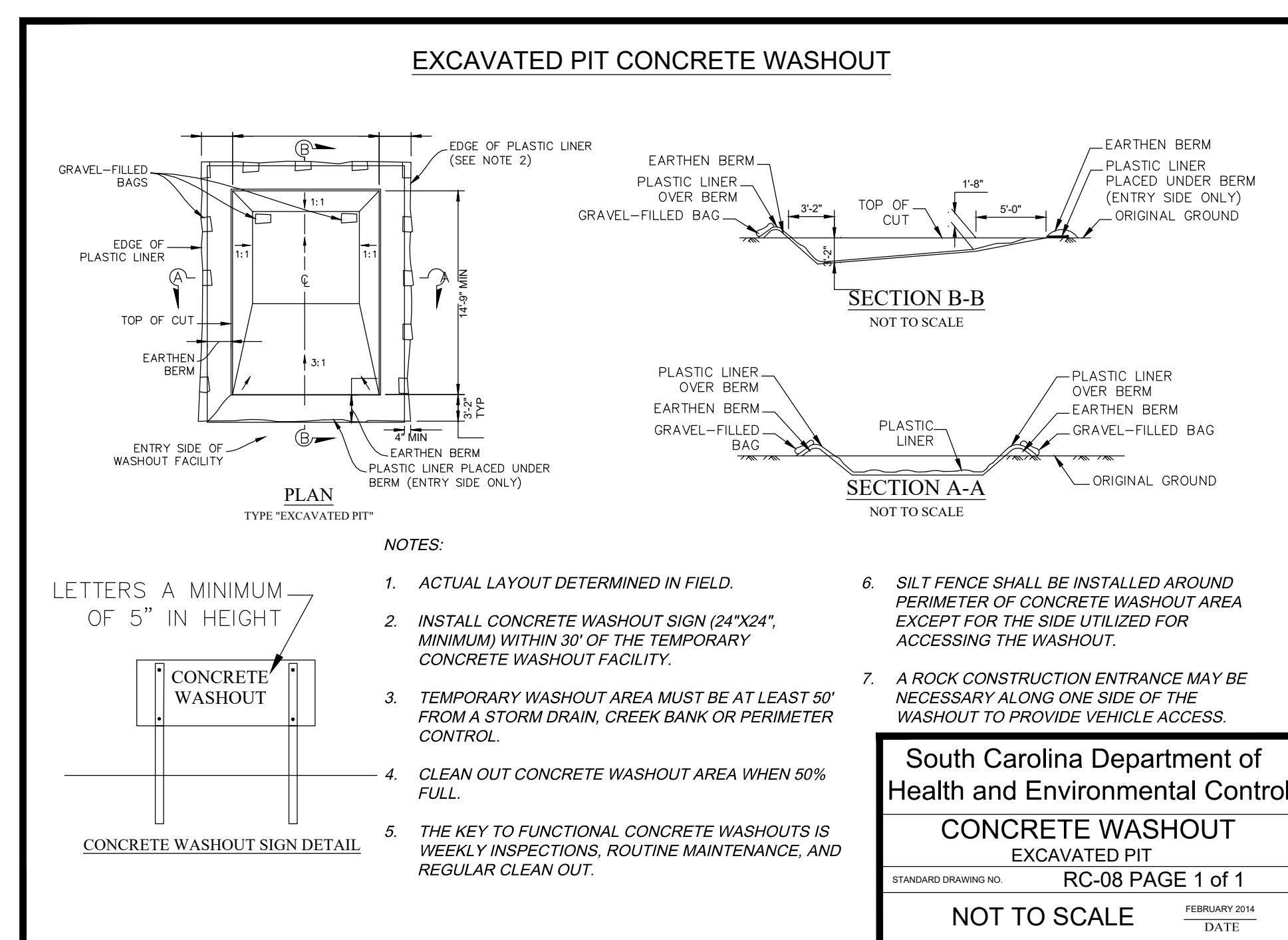
ROCK DITCH CHECK - GENERAL NOTES

1. Rock Ditch Checks should not be placed in Waters of the State or USGS blue-line streams (unless approved by Federal Authorities).
2. Rock Ditch Checks should be installed in steeply sloped channels where adequate vegetation cannot be established. This BMP measure should only be used in small open channels.
3. A non-woven geotextile fabric shall be installed over the soil surface where the rock ditch check is to be placed.
4. The body of the rock ditch check shall be composed of 12-inch D50 Riprap. The upstream face may be composed of 1-inch D50 washed stone.
5. Rock Ditch Checks should not exceed a height of 2-feet at the centerline of the channel.
6. Rock Ditch Checks should have a minimum top flow length of 2-feet.
7. Riprap should be placed over channel banks to prevent water from cutting around the ditch check.
8. The riprap should be placed by hand or mechanical placement (no dumping of rock to form dam) to also ensure that the center of the check is lower than the edges.
9. The maximum spacing between the dams should be such that the toe of the upstream check is at the same elevation as the top of the downstream check.

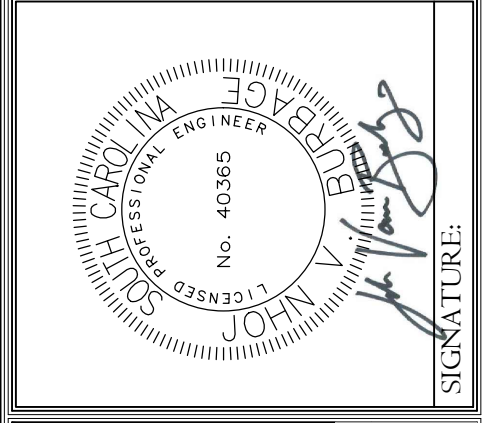
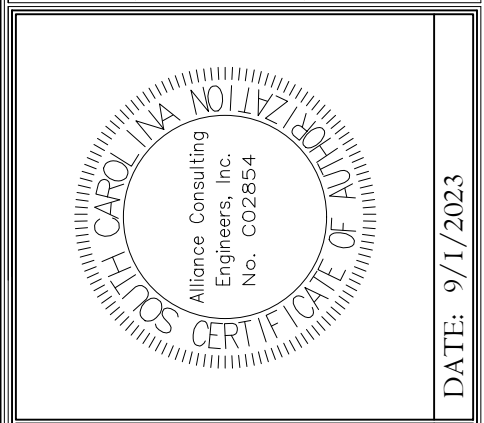
ROCK DITCH CHECK - INSPECTION & MAINTENANCE

1. The key to functional rock ditch check is weekly inspections, routine maintenance, and regular sediment removal.
2. Regular inspections of rock ditch checks shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation.
3. Attention to sediment accumulations in front of the rock ditch check is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
4. Remove accumulated sediment when it reaches 1/3 the height of the rock ditch check.
5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
6. Inspect Rock Ditch Checks' edges for erosion and evidence of runoff bypassing the installed check. If evident repair promptly as necessary to prevent erosion and bypassing.
7. In the case of grass-lined ditches, channels, and swales, rock ditch checks should be removed when the grass has matured sufficiently to protect the ditch or swale unless the slope of the swale is greater than 4%.
8. After construction is completed and final stabilization is reached, the entirety of the rock ditch check should be removed if vegetation will be used for permanent erosion control measures. The area beneath the removed rock ditch check must be addressed with permanent stabilization measures.

South Carolina Department of Health and Environmental Control
ROCK DITCH CHECK
STANDARD DRAWING NO. SC-04 PAGE 2 of 2
GENERAL NOTES FEBRUARY 2014 DATE



REVISION DATE	
SCDHEC COMMENTS	
JUNE 15, 2023	
REALIGNMENT	
SEPTEMBER 1, 2023	
APPROVALS	
ENGINEER	JVB
DESIGNER	JVB
TECHNICIAN	JVB
CHECKED BY	JVB
DRAWN	JVB
APPROVED	JVB



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EROSION AND SEDIMENT CONTROL DETAILS
DATE: JANUARY 2023
SCALE: AS SHOWN

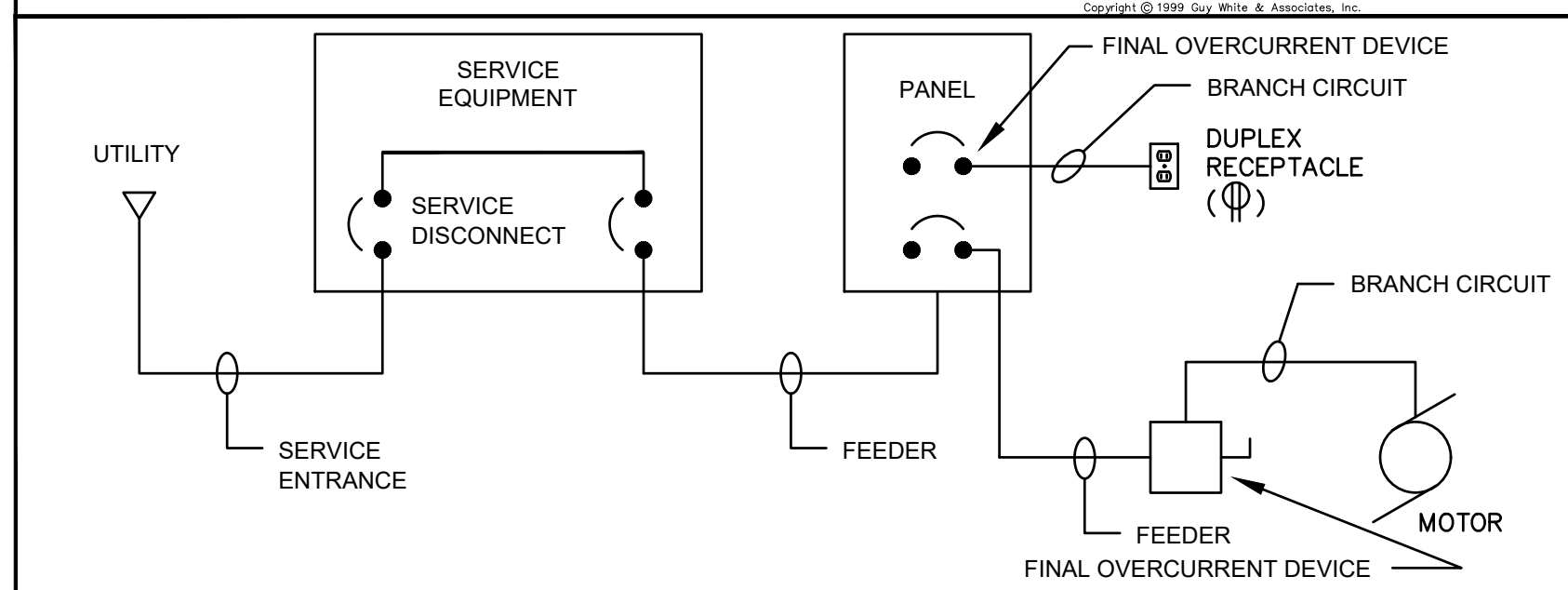
PROJECT
ROADWAY, WATER, AND WASTEWATER IMPROVEMENTS TO SERVE JO ROGERS JR BOULEVARD TO SERVE THE CLARENDON COUNTY INDUSTRIAL PARK LOCATED IN UNINCORPORATED CLARENDON COUNTY, SOUTH CAROLINA

FILE NAME:	C14.0.dwg	SHEET C14.0
REFERENCE FILE:	22201-BASE.dwg	
PROJECT NO.:	22201-0014	
DWG NO. 01.1598-D28		

RACEWAY MATERIAL USE TABLE

APPLICATION	RACEWAY MATERIAL						
	EMT	IMC	GRS	RAC	SCH. 40 PVC	HDPE	AC/MC CABLE
CONTRACTOR MAY USE ANY MATERIAL MARKED () FOR APPLICATION LISTED. IF MATERIAL IS NOT MARKED FOR AN APPLICATION, IT SHALL NOT BE USED FOR THAT APPLICATION.							
BRANCH CIRCUITS							
CONCEALED ABOVE CEILING		●	●	●			
CONCEALED IN WALLS		●	●	●			
EXPOSED FROM FLOOR TO 7'-0" A.F.F. (INTERIOR)		●	●	●			
EXPOSED FROM 7'-0" A.F.F. AND ABOVE (INTERIOR)		●	●	●			
IN OR UNDER CONCRETE FLOORS	NOT PERMITTED	(1)	(1)				NOT PERMITTED
OUTDOORS - BELOW GRADE		(1)	(1)				NOT PERMITTED
OUTDOORS - EXPOSED		●	●	●			
STUB-UPS BELOW PANELS & ENCLOSURES		●	●	●			
FEEDER CONDUITS		●	●	●	(2)		
SERVICE ENTRANCE		●	●	●	(2)		

(1) WITH BITUMINOUS COATING. SEE SPEC.
 (2) OUTDOORS - BELOW GRADE.



ABBREVIATIONS

THE FOLLOWING STANDARD ABBREVIATIONS ARE USED IN THESE PLANS AND SPECIFICATIONS. CONTRACTOR IS CAUTIONED THAT ALL ABBREVIATIONS LISTED MAY NOT BE USED. CONSULT PLANS AND SPECIFICATIONS FOR ABBREVIATIONS APPLICABLE TO THIS PROJECT.

- A.F.F. ABOVE FINISHED FLOOR
- B.F.F. BELOW FINISHED FLOOR
- A.F.G. ABOVE FINISHED GRADE
- B.F.G. BELOW FINISHED GRADE
- U.N.O. UNLESS NOTED OTHERWISE
- CKT. CIRCUIT
- C. CONDUIT
- E.C. EMPTY CONDUIT
- FLX. FLEXIBLE CONDUIT
- WFLX WEATHERPROOF FLEXIBLE CONDUIT
- P. PUMP
- W.P. WEATHER PROOF
- A.T.S. AUTOMATIC TRANSFER SWITCH
- S.P.D. SURGE PROTECTION DEVICE
- GRS GALVANIZED RIGID STEEL

GENERAL NOTES

- DO NOT SCALE DRAWINGS UNLESS DIMENSIONS ARE SHOWN. LOCATE OUTLETS AND EQUIPMENT AS OBVIOUSLY INDICATED AND COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS.
- MINIMUM SIZE CONDUCTOR FOR POWER SHALL BE NO. 12 AWG.
- ALL FUSES SHALL BE DUAL-ELEMENT TYPE, "FUSETRON" BY BUSSMAN, OR "ECON" BY ECONOMY.
- BRANCH CIRCUIT SIZES ARE AWG 12-3/4"C. UNLESS OTHERWISE NOTED IN PANELBOARD SCHEDULES.
- ALL BRANCH CIRCUIT LOADS SHALL BE BALANCED ACROSS PANELBOARD BUSES TO OBTAIN MINIMUM NEUTRAL CURRENT.
- ALL FLEXIBLE CONDUIT SHALL CONTAIN A GREEN WIRE BONDED TO RIGID RACEWAY, BOX OR FIXTURE AT EACH END OF FLEX. SIZE GROUND WIRE PER N.E.C. TABLE 250-122.

ELECTRICAL SYMBOLS

	TRANSFORMER		BRANCH CIRCUIT RACEWAY - CONCEALED IN WALL OR CEILING
	PANELBOARD		BRANCH CIRCUIT RACEWAY - CONCEALED IN FLOOR OR UNDERGROUND
	SAFETY SWITCH		BRANCH CIRCUIT RACEWAY - EXPOSED
	ELECTRIC MOTOR		
	CONDUIT STUB		
	DUPLEX RECEPTACLE (HIGH MOUNT)		
	WEATHERPROOF DUPLEX RECEPTACLE. 16" UP		

NOTE: ALL DEVICES SHOWN ON THIS SCHEDULE ARE SYMBOLIC ONLY. SEE ELECTRICAL SPECIFICATIONS FOR EXACT DEVICE REQUIREMENTS AND PERFORMANCE CHARACTERISTICS.

NOTES TO PUMP STATION WORK

- THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL COUNTY WATER AND SANITATION GUIDELINES AND STANDARDS.
- ALL WORK SHALL COMPLY WITH NFPA 900, NEC AND ALL OTHER APPLICABLE CODES AND ORDINANCES.
- CONTRACTOR SHALL COORDINATE WITH UTILITY FOR ELECTRICAL SERVICE WITH CHARACTERISTICS AS INDICATED. PROVIDE METERING PROVISIONS AS DIRECTED BY UTILITY. CONTRACTOR SHALL PAY ALL SERVICE AND PERMIT FEES AS REQUIRED BY UTILITY.
- REFER TO CIVIL PLANS FOR UNDERGROUND UTILITY LOCATIONS. PLAN AND ROUTE RACEWAYS IN LOGICAL, EFFICIENT MANNER AND AS REQUIRED TO AVOID CONFLICT WITH OTHER UTILITIES. DOCUMENT ALL RACEWAY ROUTINGS, STUB OUTS AND LOCATIONS IN RESPECT TO MAJOR SITE COMPONENTS ON RECORD DRAWINGS.
- SEE CIVIL DOCUMENTS FOR ADDITIONAL ELECTRICAL WORK REQUIRED. PROVIDE ALL FINAL EQUIPMENT CONNECTIONS, CONTROL WIRING AND ASSOCIATED WORK FOR A COMPLETE AND OPERABLE PUMP STATION.
- CONTRACTOR IS CAUTIONED THAT THESE DRAWINGS ARE SCHEMATIC IN NATURE AND DO NOT REPRESENT PRECISE LOCATIONS FOR EQUIPMENT. CONTRACTOR SHALL COORDINATE WITH CIVIL AND VENDOR PROVIDED DRAWINGS AND INFORMATION FOR EXACT LOCATIONS AND ORIENTATIONS OF EQUIPMENT, WIRING DIAGRAMS, TERMINATION POINTS AND OTHER REQUIREMENTS. CONTRACTOR SHALL PROVIDE ALL SUPPORTING ELECTRICAL WORK IN ASSOCIATION WITH EQUIPMENT VENDORS FOR A COMPLETE AND OPERABLE SYSTEM.
- ALL GROUNDING CONNECTIONS SHALL BE BY EXOTHERMIC WELD WITH THE EXCEPTION OF LUGS INSTALLED IN EQUIPMENT/ENCLOSURES.
- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED ABOVE THE 100 YEAR FLOOD LEVEL.
- SEAL ALL PENETRATIONS INTO WET WELL WITH WATER-TIGHT PUTTY.
- PROVIDE STRAIN RELIEF FOR ALL CORDS INSTALLED IN WET WELL - ALL REQUIRED HARDWARE AND MATERIALS SHALL BE STAINLESS STEEL. SUPPORT GRIPS SHALL BE AMTEC 2202 SERIES (SS) OR EQUAL.
- PROVIDE HANDHOLES AS REQUIRED FOR LONG RUNS OR EXCESSIVE BENDS. HANDHOLES SHALL BE FIBERGLASS REINFORCED POLYMER CONCRETE INSTALLED ON GRAVEL BASE. FRAMES AND COVERS SHALL BE RATED FOR VEHICULAR TRAFFIC.
- THE ELECTRICAL DESIGN IS BASED ON A PUMPING STATION UTILIZING EQUIPMENT WITH THE FOLLOWING CHARACTERISTICS. CONTRACTOR SHALL VERIFY THAT EQUIPMENT FURNISHED MATCHES THE DESIGNED CHARACTERISTICS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS.
 STARTERS: DIRECT-ON-LINE (DOL)
 PUMPS: TWO (2) 10HP

SCHEDULE - PANELBOARD HA TYPE: NQOD I-LINE VOLTAGE 208/120V, 3Ø, 4W, WYE MOUNTING: FLUSH SURFACE AIC RATING 22K
 100 AMP MLO MCB NF LDCTR 480/277V, 3Ø, 4W, WYE ACCESSORY: FEED-THRU LUGS TOTAL SPACES 12

NO	LOAD DESCRIPTION	REMARK	BRKR	AMP	Ø WIRE	COND	LOAD KVA	BUSSEING			BRKR	AMP	REMARK	LOAD DESCRIPTION	NO						
								A	B	C											
1	PUMP STATION			60	3	6	1-1/2	9.4				2.5		2.5	1/2	12	2	15	MINI POWER ZONE	2	
3								9.4													4
5								9.4													6
9																					8
11																					10
																					12

CONNECTED LOAD, KVA: A 9.4 B 9.4 C 9.4
 KVA, THIS SECTION: A 11.9 B 11.9 C 9.4

REMARK ABBREVIATION LEGEND:
 STB = SHUNT TRIP BRKR. GFI = GFI BRKR.
 SFB = SUB-FEED BRKR. VFY = VERIFY LOAD

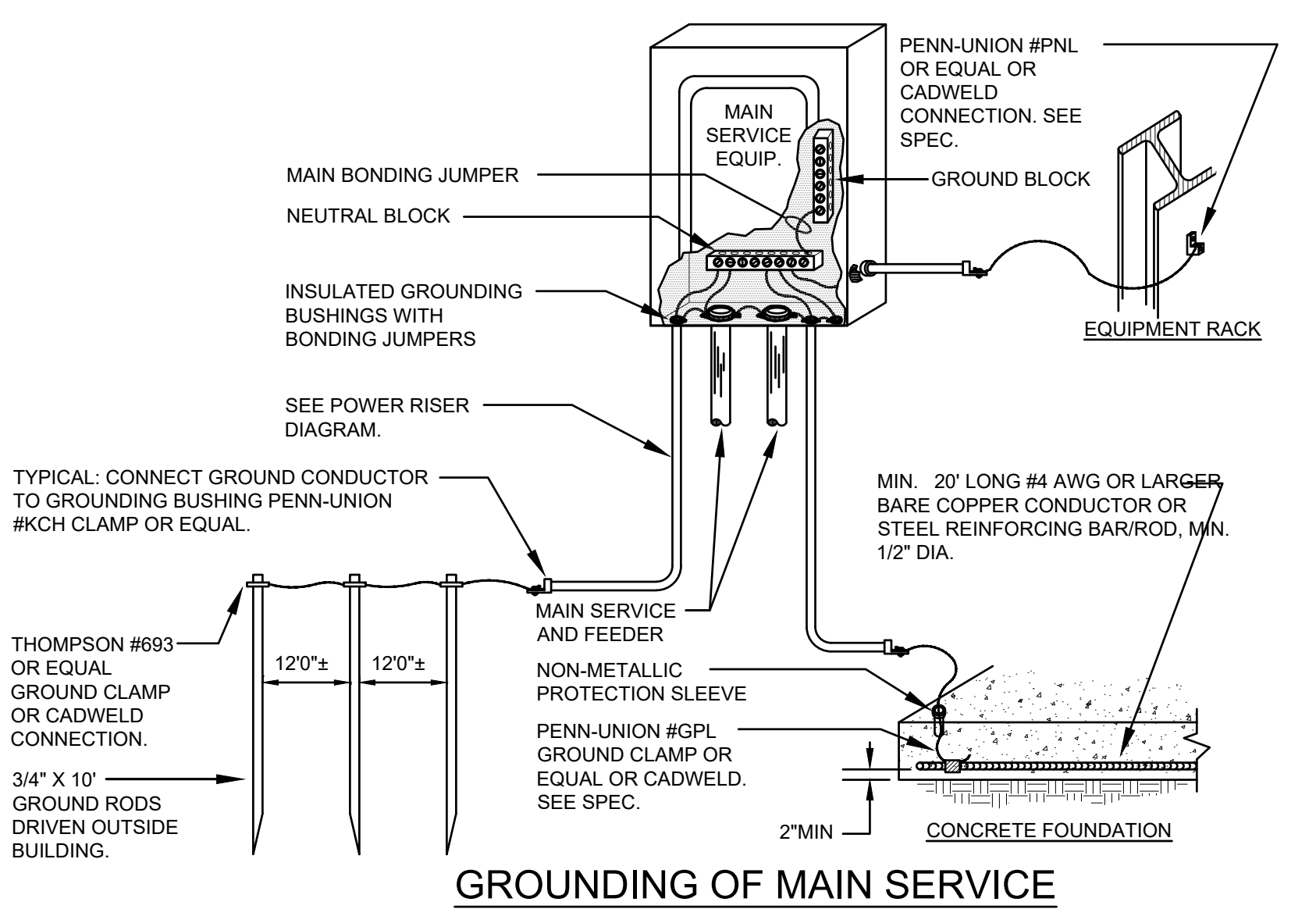
NEMA 4X ENCLOSURE

SCHEDULE - PANELBOARD MPZ TYPE: MINI-POWER ZONE VOLTAGE 120/240V, 1Ø, 3W MOUNTING: FLUSH SURFACE AIC RATING 18K
 3Ø AMP MLO MCB NF LDCTR 480/277V, 3Ø, 4W, WYE ACCESSORY: FEED-THRU LUGS TOTAL SPACES 12

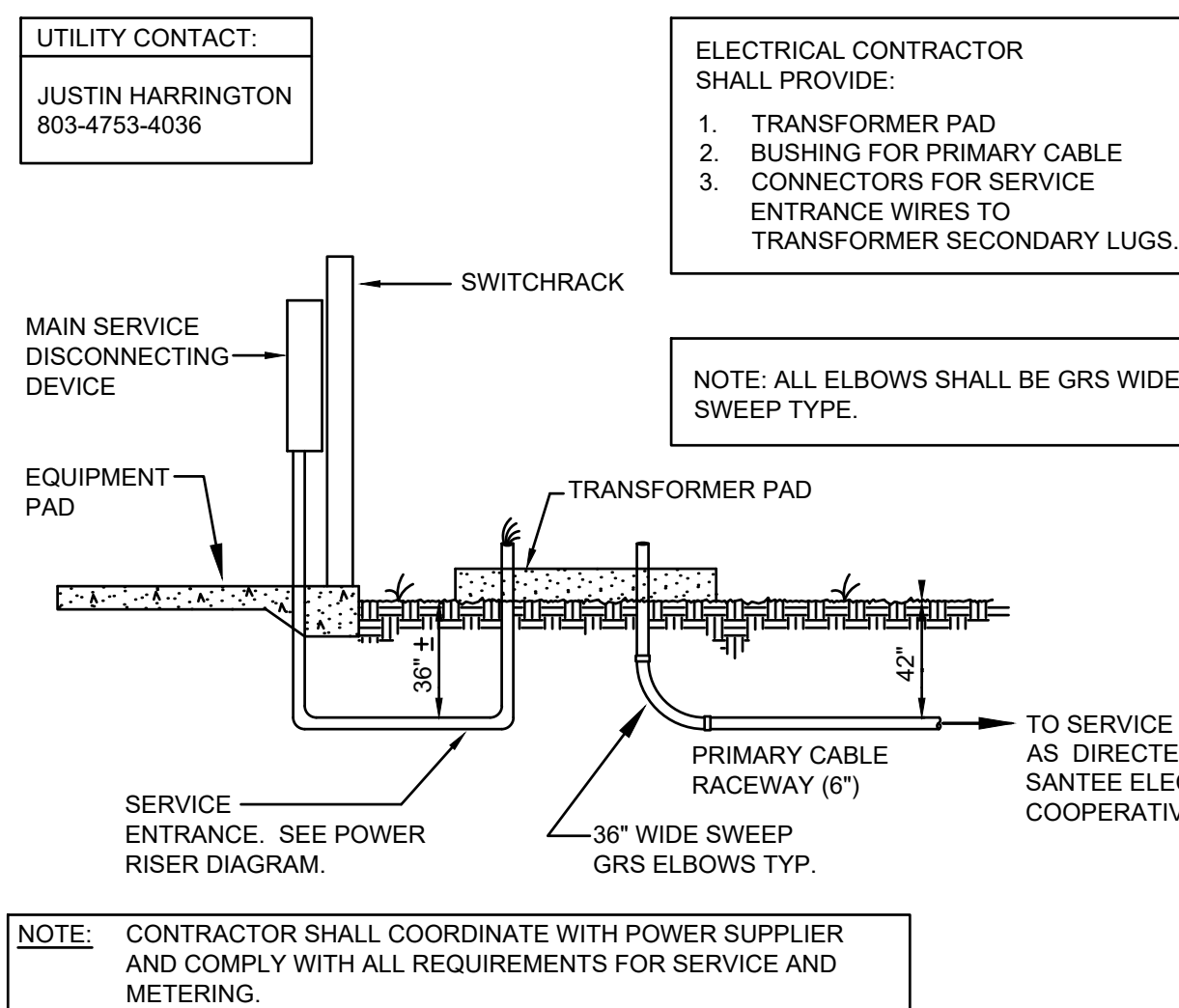
NO	LOAD DESCRIPTION	REMARK	BRKR	AMP	Ø WIRE	COND	LOAD KVA	BUSSEING			BRKR	AMP	REMARK	LOAD DESCRIPTION	NO
								A	B	C					
1	RECEPTACLE			20	1	12	3/4"	1.0				1	20	SPARE	2
3	TELEMETRY/SCDA			20	1	12	3/4"	0.1				1	20	SPARE	4
5	LIGHTING			20	1	12	3/4"	0.1				1	20	SPARE	6
7														SPARE	8
9														SPARE	10

CONNECTED LOAD, KVA: A 1.1 C 1.0
 KVA, THIS SECTION: A 1.1 C 1.0

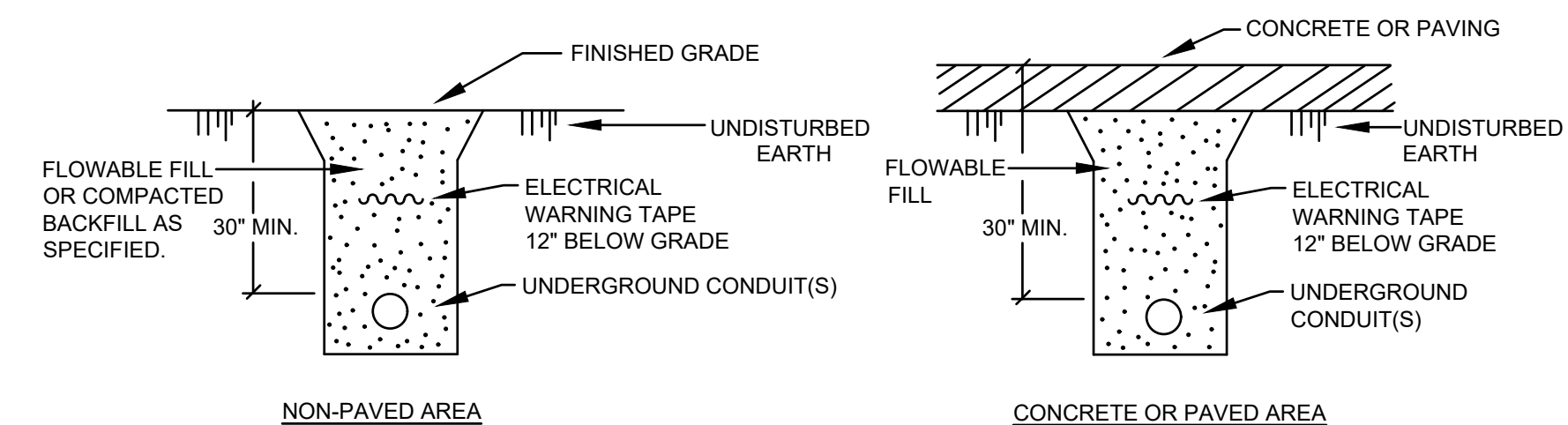
MINI-POWER ZONE (TRANSFORMER/PANELBOARD ASSEMBLY): 480V - 120/240V - 1Ø, 5KVA WITH 15A PRIMARY MCB AND 30A SECONDARY MCB. 10 SPACES AND NEMA 4X ENCLOSURE.



GROUNDING OF MAIN SERVICE



UNDERGROUND SERVICE ENTRANCE TO PAD-MOUNTED TRANSFORMER



UNDERGROUND CONDUIT NOT IN A DUCTBANK

GWA: 23246

GWA inc.
Electrical Engineers

168 Laurelhurst Avenue
Columbia, SC 29210
(803)252-6919
Fax (803)799-5494
gwa@gwainc.net
http://www.gwainc.net

REVISION DATE

APPROVALS: ENGINEER, DESIGNER, TECHNICIAN, CHECKED BY, APPROVED BY

DATE: 07/13/2023

07/13/2023

GWA, INC. ELECTRICAL ENGINEERS No. 000825

ALLIANCE CONSULTING ENGINEERS

Post Office Box 8147
Columbia, South Carolina 29202-8147
Phone (803) 779-2078 • Fax (803) 779-2079

ELECTRICAL SYMBOLS, NOTES, AND DETAILS

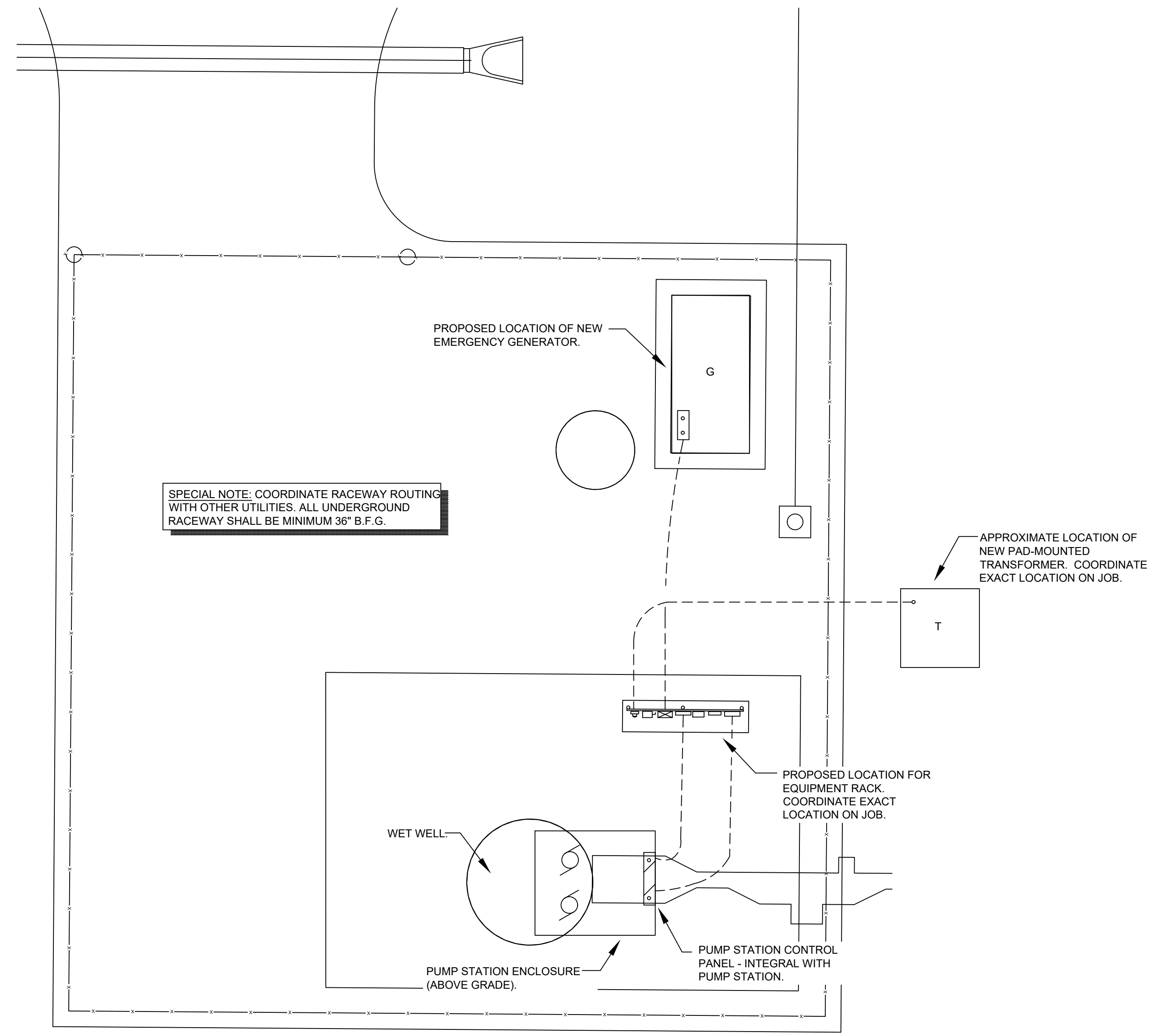
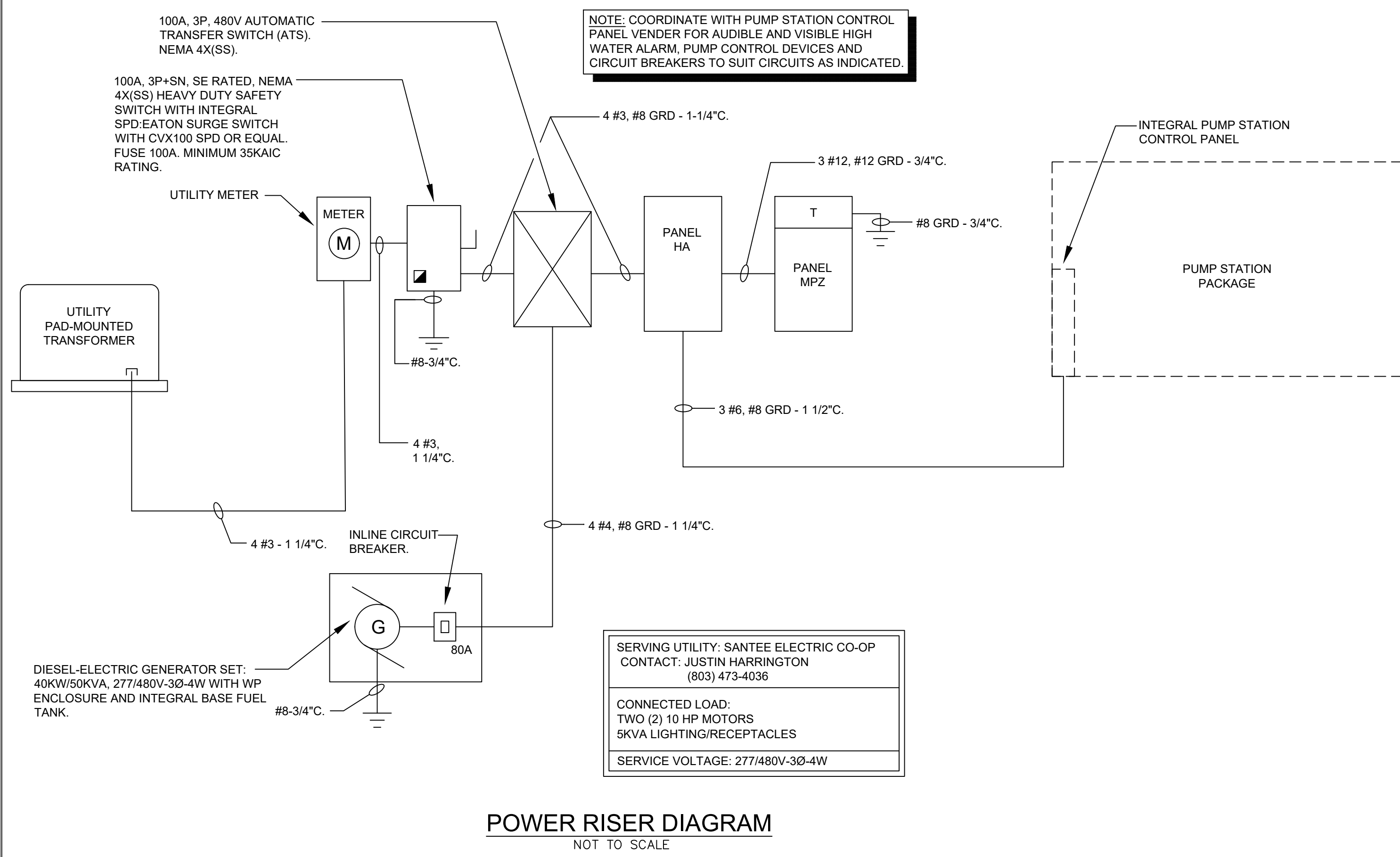
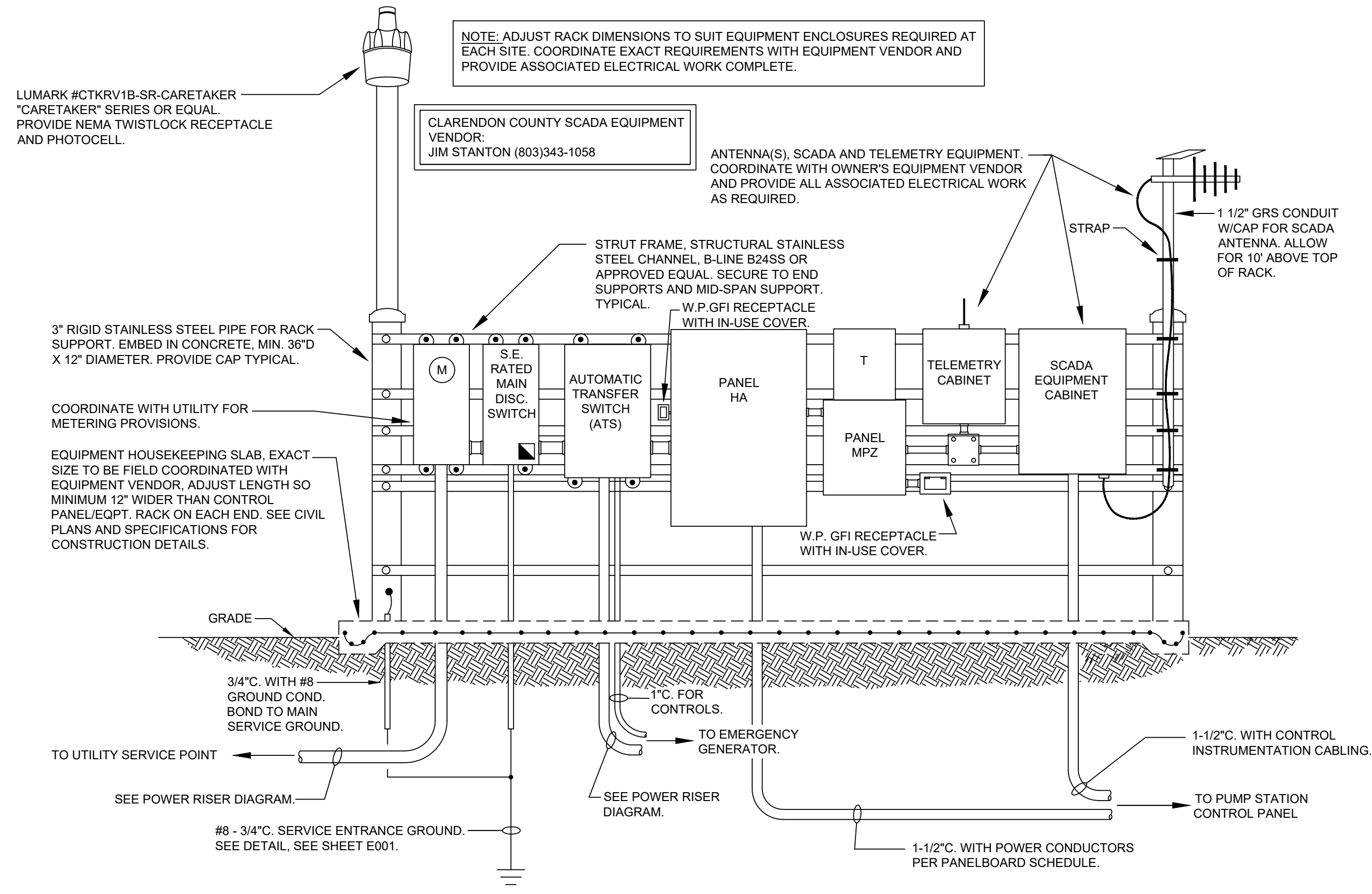
ROADWAY, WATER, AND WASTEWATER IMPROVEMENTS TO JO ROGERS JR BOULEVARD TO SERVE THE CLarendON COUNTY INDUSTRIAL PARK LOCATED IN UNINCORPORATED CLARENDON COUNTY, SOUTH CAROLINA

FILE NAME: 22201-BASE.dwg SHEET E001

PROJECT NO. 22201-0014

DWG NO. 01.1598-D28

July 13, 2023 - 4:54:57 PM L:\23\2306\Working\23246 - Wastewater Improvements Clarendon County Industrial Park - Site.dwg
 PROJECT: ROADWAY, WATER, AND WASTEWATER IMPROVEMENTS TO JO ROGERS JR BOULEVARD TO SERVE THE CLARENDON COUNTY INDUSTRIAL PARK LOCATED IN UNINCORPORATED CLARENDON COUNTY, SOUTH CAROLINA
 SHEET: ELECTRICAL PLAN AND POWER RISER DIAGRAM
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REVISION DATE	
APPROVALS	ENGINEER SDO
	DESIGNER SDO
	TECHNICIAN NSW
	CHECKED BY CAW
	APPROVED SDO
ELECTRICAL PLAN AND POWER RISER DIAGRAM	
DATE: JULY 13, 2023	SCALE:
PROJECT: ROADWAY, WATER, AND WASTEWATER IMPROVEMENTS TO JO ROGERS JR BOULEVARD TO SERVE THE CLARENDON COUNTY INDUSTRIAL PARK LOCATED IN UNINCORPORATED CLARENDON COUNTY, SOUTH CAROLINA	
FILE NAME: 22201-BASE.dwg	SHEET ES01
REFERENCE FILE: 22201-0014	
PROJECT NO. 22201-0014	
168 Laurelhurst Avenue Columbia, SC 29210 (803)252-6919 Fax (803)799-5494 gwa@gwainc.net http://www.gwainc.net	
DWG NO. 01.1598-D28	