

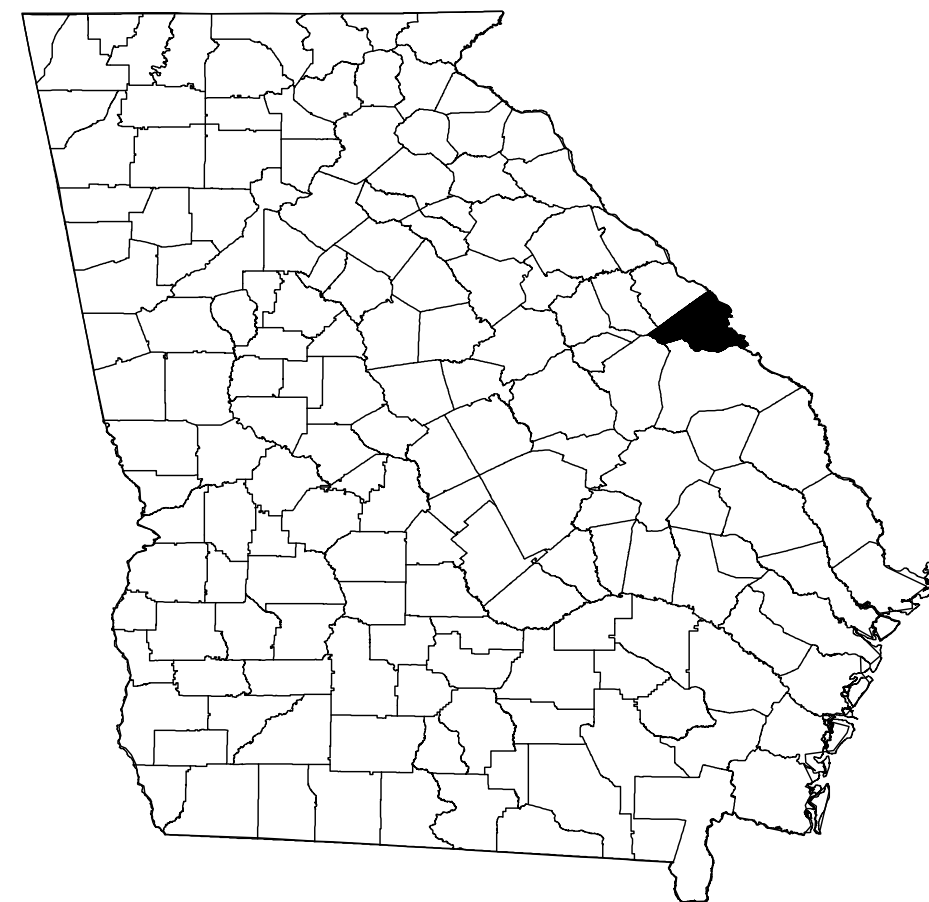
AUGUSTA REGIONAL AIRPORT

SOUTHEAST DRAINAGE DITCH ENCLOSURE PH II

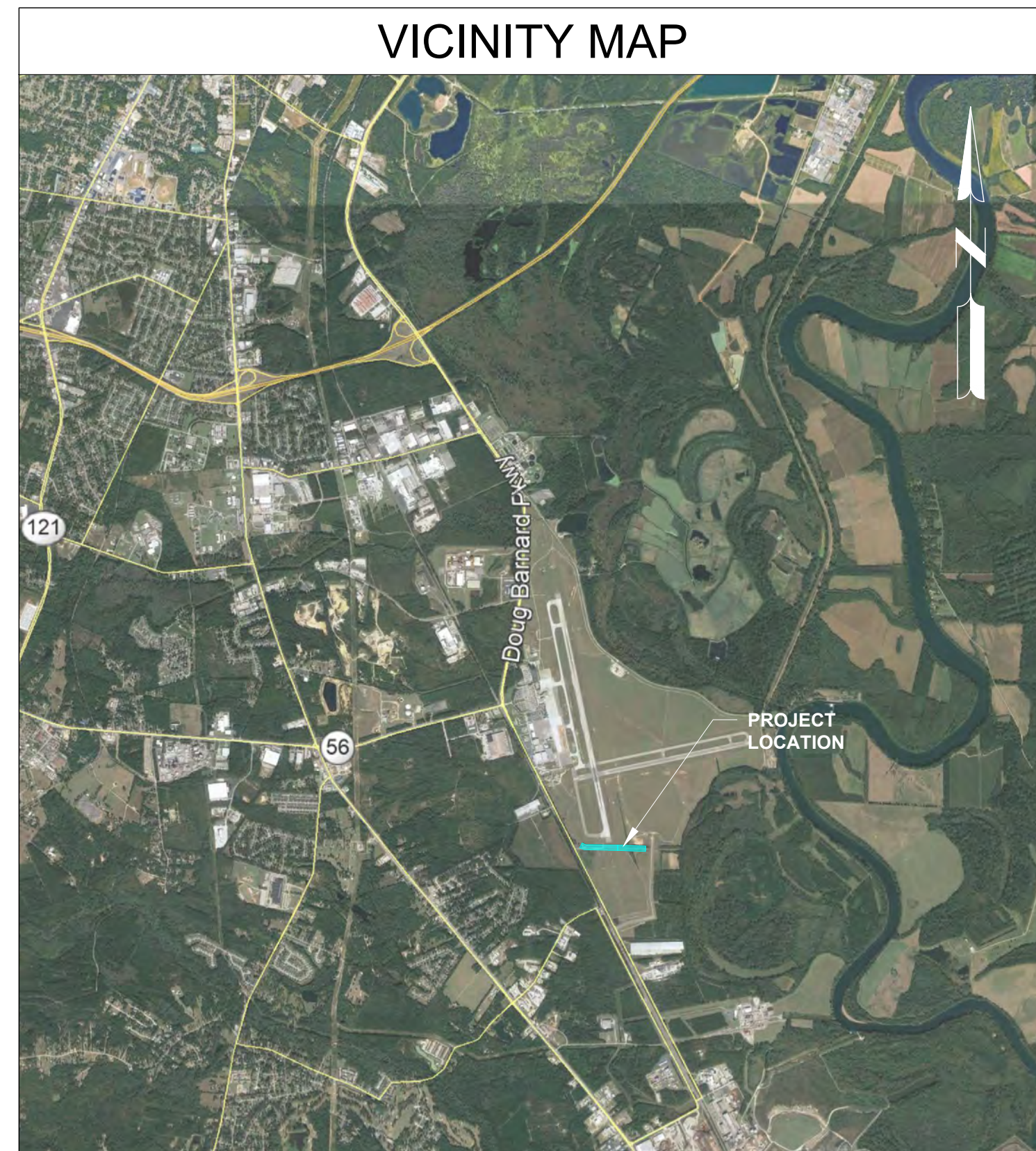
1501 AVIATION WAY
AUGUSTA GA, 30906

PROJECT NUMBER: 0119700-210463.01

OCTOBER 22, 2024
ISSUED FOR BID



RICHMOND COUNTY



VICINITY MAP

SHEET INDEX	
SHEET NUMBER	SHEET TITLE
GENERAL	
G-001	COVER SHEET
G-002	LEGEND & ABBREVIATIONS
G-021	PROJECT LAYOUT PLAN
G-031	EXISTING CONDITIONS
G-041	SURVEY CONTROL PLAN
G-061	PROJECT QUANTITY TABLE
G-071	CONSTRUCTION SAFETY & PHASING PLAN NOTES
G-072	CONSTRUCTION SAFETY & PHASING PLAN NOTES
G-081	CONSTRUCTION SAFETY & PHASING PLAN OVERALL
G-082	CONSTRUCTION SAFETY & PHASING PLAN MATRIX
G-083	CONSTRUCTION SAFETY & PHASING PLAN - WA 1
G-084	CONSTRUCTION SAFETY & PHASING PLAN - WA 2
G-085	CONSTRUCTION SAFETY & PHASING PLAN - WA 3
CIVIL	
C-021	ESPC PLAN - CHECKLIST
C-022	ESPC PLAN - NOTES
C-023	ESPC PLAN - NOTES
C-024	ESPC PLAN - NOTES
C-025	ESPC PLAN - NOTES
C-026	ESPC PLAN - OVERALL LAYOUT
C-027	ESPC PLAN - INITIAL PHASE
C-028	ESPC PLAN - INITIAL PHASE
C-029	ESPC PLAN - INITIAL PHASE
C-030	ESPC PLAN - GRADING PHASE
C-031	ESPC PLAN - GRADING PHASE
C-032	ESPC PLAN - GRADING PHASE
C-033	ESPC PLAN - FINAL PHASE
C-034	ESPC PLAN - FINAL PHASE
C-035	ESPC PLAN - FINAL PHASE
C-036	ESPC PLAN - DETAILS
C-037	ESPC PLAN - DETAILS
C-038	ESPC PLAN - DETAILS
C-039	ESPC PLAN - DETAILS
C-040	ESPC PLAN - PRE-DEVELOPMENT DRAINAGE AREA MAP

SHEET INDEX	
SHEET NUMBER	SHEET TITLE
C-041	ESPC PLAN - POST-DEVELOPMENT DRAINAGE AREA MAP
C-051	DEMOLITION PLAN STA 10+00 TO 17+50
C-052	DEMOLITION PLAN STA 17+50 TO 26+00
C-053	DEMOLITION PLAN STA 26+00 TO 34+50
C-101	GRADING & DRAINAGE PLAN STA 10+00 TO 17+50
C-102	GRADING & DRAINAGE PLAN STA 17+50 TO 26+00
C-103	GRADING & DRAINAGE PLAN STA 26+00 TO 34+50 - BASE BID
C-104	GRADING & DRAINAGE PLAN - BASE BID TIE-IN
C-105	GRADING & DRAINAGE PLAN STA 26+00 TO 34+50 - BID ALT
C-106	GRADING & DRAINAGE PLAN INLET HEADWALL
C-107	GRADING & DRAINAGE PLAN OUTLET HEADWALL
C-441	STORM PLAN & PROFILE STA 09+00 TO 21+75
C-442	STORM PLAN & PROFILE STA 21+75 TO 33+50
C-443	STORM PLAN & PROFILE - CONNECTIONS 1 & 2
C-444	STORM PLAN & PROFILE - CONNECTION 3
C-451	STORM DETAILS
C-452	STORM DETAILS
C-453	STORM DETAILS
C-454	STORM DETAILS - HW-1 & HW-2
C-901	CROSS SECTIONS 9+75 TO 11+00
C-902	CROSS SECTIONS 11+00 TO 12+50
C-903	CROSS SECTIONS 12+75 TO 14+00
C-904	CROSS SECTIONS 14+25 TO 15+50
C-905	CROSS SECTIONS 15+75 TO 17+00
C-906	CROSS SECTIONS 17+25 TO 18+50
C-907	CROSS SECTIONS 18+75 TO 20+00
C-908	CROSS SECTIONS 20+25 TO 21+50
C-909	CROSS SECTIONS 21+75 TO 23+00
C-910	CROSS SECTIONS 23+25 TO 24+50
C-911	CROSS SECTIONS 24+75 TO 26+00
C-912	CROSS SECTIONS 26+25 TO 27+50
C-913	CROSS SECTIONS 27+75 TO 29+00
C-914	CROSS SECTIONS 29+25 TO 30+50
C-915	CROSS SECTIONS 30+75 TO 32+00
C-916	CROSS SECTIONS 32+25 TO 33+50



LOCATION MAP

Mead & Hunt
Mead and Hunt, Inc.
5955 Core Road, Suite 515
North Charleston, SC 29406
phone: 843-486-8330
meadhunt.com



© Copyright 2022 Mead & Hunt, Inc.
This document, or any portion thereof, shall not be duplicated, disclosed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt shall not be responsible for any unauthorized use of, or alteration to these documents.

AUGUSTA REGIONAL AIRPORT
SOUTHEAST DRAINAGE DITCH
ENCLOSURE PH II
1501 AVIATION WAY
AUGUSTA GA, 30906

ISSUED FOR BID

NOT FOR CONSTRUCTION

AGS:
M&H NO: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: NJH
DRAWN BY: NJH
CHECKED BY: EJS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
COVER SHEET

SHEET NO.

G-001

NOTE:
ALL MATERIALS USED SHALL BE IN ACCORDANCE WITH GEORGIA DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS CONSTRUCTION OF TRANSPORTATION SYSTEMS, 2020 EDITION OR BY SPECIAL PROVISION, EXCEPT FOR ELECTRICAL ITEMS OF WORK WHICH SHALL BE IN ACCORDANCE WITH APPLICABLE FAA SPECIFICATIONS



LEGEND AND ABBREVIATIONS

LEGEND:

	BENCHMARK
	CONTROL POINT
	ELECTRICAL HANDHOLE/PULLBOX
	FIRE HYDRANT
	GATE
	INLET, CURB
	INLET, ROUND
	INLET, SQUARE
	IRON PIN
	MANHOLE, SANITARY SEWER
	MANHOLE, STORM SEWER
	PK or MAG NAIL
	REBAR
	SIGN (SINGLE POST)
	STORM FLARED END SECTION
	GAS
	ELECTRIC, OVERHEAD
	ELECTRIC, UNDERGROUND
	EXISTING CONTOUR LINES
	FENCE
	PROPERTY LINE
	STORM SEWER / CULVERT
	WATER
	WETLAND BOUNDARY
	RIPRAP
	STANDING WATER
	WETLAND
	EXISTING CONCRETE RUNWAY/TAXIWAY
	PROPOSED ELEVATION
	EXISTING ELEVATION
	PROPOSED ASPHALT PAVEMENT
	PROPOSED ASPHALT SHOULDER SLURRY SEAL
	ASPHALT PAVEMENT MILLING
	EXISTING TAXIWAY EDGE LIGHT
	EXISTING RUNWAY EDGE LIGHT
	ABANDONED RUNWAY EDGE LIGHT CAN WITH BLANK PLATE

	EXISTING JUNCTION CAN
	EXISTING GUIDANCE SIGN
	EXISTING WIRE AND CONDUIT TO REMAIN
	EXISTING DUCT BANK
	EXISTING RUNWAY/TAXIWAY LIGHT TO BE REMOVED
	EXISTING TAXIWAY EDGE LIGHT/GUIDANCE SIGN TO BE RELOCATED
	RUNWAY/TAXIWAY MARKING REMOVAL
	DIRECT-BURIED CABLE TO BE ABANDONED IN-PLACE
	ELECTRICAL FIXTURE TAG
	NEW DIRECTIONAL BORED DUCT
	NEW ELECTRICAL PULLBOX
	NEW TAXIWAY EDGE LIGHT
	NEW RUNWAY EDGE LIGHT
	NEW GUIDANCE SIGN
	NEW 5KV WIRE, L-824C IN NEW 2" SCH 40 PVC CONDUIT (SLASH INDICATES NUMBER OF CABLES)
	NEW DUCT BANK FOR RELOCATED TAXIWAY EDGE LIGHTS
	NEW L-867 J-CAN WITH 3/8" BLANK COVER (LA) INDICATES IN-LINE LIGHTNING ARRESTOR
	NEW COUNTERPOISE AND GROUNDING RODS

ABBREVIATIONS:

A	ABANDON
AB	AGGREGATE BASE
A/C	AIRCRAFT
ABAND	ABANDON
AC	ASPHALT CONCRETE
ALCMS	AIRFIELD LIGHTING CONTROL AND MONITORING SYSTEM
ALT	ALTERNATE
AOA	AIRCRAFT OPERATIONS AREA
APCH	APPROACH
APPROX	APPROXIMATE
AR	ACCESS ROAD
ARFF	AIRCRAFT RESCUE AND FIRE FIGHTING
ATCT	AIR TRAFFIC CONTROL TOWER
BLDG	BUILDING
BM	BENCHMARK
CA TEAM	CONSTRUCTION ADMINISTRATION TEAM
CB	CATCH BASIN
CIPCP	CAST IN-PLACE CONCRETE PIPE
CFS	CUBIC FEET PER SECOND
CL	CENTERLINE
CLF	CHAINLINK FENCE
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
CONC	CONCRETE
CONT	CONTINUOUS
CP	CONTROL POINT
CSPP	CONSTRUCTION SAFETY PHASING PLAN
DEG	DEGREE
DI	DROP INLET
DIA	DIAMETER
DIM	DIMENSION
DP	DEPTH
(E)	EXISTING
E	ELECTRICAL LINE
EG	EXISTING GRADE
ELEV	ELEVATION
FAA	FEDERAL AVIATION ADMINISTRATION
FBO	FIXED BASE OPERATOR
FES	FLARED END SECTION
FG	FINISHED GRADE
FH	FIRE HYDRANT
FOD	FOREIGN OBJECT DEBRIS
FPS	FEET PER SECOND
FT	FEET
GAL	GALLON
GALV	GALVANIZED
GB	GRADE BREAK
GND	GROUND
GPM	GALLONS PER MINUTE
GPSP	GENERAL PERRY SMITH PARKWAY
H	HEIGHT
HDPE	HIGH DENSITY POLYETHYLENE
HIRL	HIGH INTENSITY RUNWAY LIGHT
HIR,THL	HIGH INTENSITY THRESHOLD LIGHT
HP	HIGH POINT
HW	HEADWALL
HWY	HIGHWAY
ILS	INSTRUMENT LANDING SYSTEM
IN	INCHES
L	LENGTH
LBS	POUNDS
LF	LINEAL FEET
LOC	LOCALIZER
MH	MANHOLE
MALS	MEDIUM INTENSITY APPROACH LIGHTING SYSTEM
MALSF	MALS W/ SEQUENCED FLASHERS
MALSR	MALS W/ RUNWAY ALIGNMENT INDICATOR LIGHTS
MAX	MAXIMUM

ME	MATCH EXISTING
MID	MID POINT
MIN	MINIMUM
MIRL	MEDIUM INTENSITY RUNWAY LIGHT
MITL	MEDIUM INTENSITY TAXIWAY LIGHT
MPH	MILES PER HOUR
(N)	NEW
NIC	NOT IN CONTRACT
NO. OR #	NUMBER
NOTAM	NOTICE TO AIRMAN
NTS	NOT TO SCALE
OFF	OFFSET
OFZ	OBJECT FREE ZONE
O/S	OFFSET
OC	ON CENTER
OH	OVERHEAD
PAPI	PRECISION APPROACH PATH INDICATOR
PCC	PORTLAND CEMENT CONCRETE
PCF	POUNDS PER CUBIC FOOT
PSI	POUNDS PER SQUARE INCH
PSF	POUNDS PER SQUARE FOOT
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
Q	RATE OF FLOW
QTY	QUANTITY
R	RADIUS
(R)	REMOVE
R&R	REMOVE AND REPLACE
RC	RELATIVE COMPACTION
REL	RELOCATE EXISTING
RCP	REINFORCED CONCRETE PIPE
REQ	REQUIRED
ROFA	RUNWAY OBJECT FREE AREA
ROW	RIGHT OF WAY
RSA	RUNWAY SAFETY AREA
RWA	RUNWAY WORK RESTRICTED AREA
RWAPP	RUNWAY APPROACH LIGHT
RWY OR RW	RUNWAY
SF	SQUARE FOOT
SH	SHOULDER
SIDA	SECURITY IDENTIFICATION DISPLAY AREA
SPCD	SAFETY PLAN COMPLIANCE DOCUMENT
ST	STORM LINE
STA	STATION
STD	STANDARD
T	TELEPHONE LINE
TG	TOP OF GRATE
T/L	TAXILINE
TDZ	TOUCHDOWN ZONE
TWY	TAXIWAY
TOFA	TAXIWAY OBJECT FREE AREA
TSA	TAXIWAY SAFETY AREA
TYP	TYPICAL
OFA	OBJECT FREE AREA
UFN	UNTIL FURTHER NOTICE
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
VC	VERTICAL CURVE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VASI	VISUAL APPROACH SLOPE INDICATOR
W	WATER LINE
WA	WORK AREA
W/	WITH
W/O	WITHOUT
WSE	WATER SURFACE ELEVATION
WSP	WELDED STEEL PIPE
WV	WATER VALVE
WWM	WELDED WIRE MESH

Mead & Hunt

Mead and Hunt, Inc.
5955 Core Road, Suite 515
North Charleston, SC 29406
phone: 843-486-8330
meadhunt.com



© Copyright 2022 Mead & Hunt, Inc. This document, or any portion thereof, shall not be duplicated, disclosed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt shall not be responsible for any unauthorized use of, or alteration to these documents.

**AUGUSTA REGIONAL AIRPORT
SOUTHEAST DRAINAGE DITCH
ENCLOSURE PH II
1501 AVIATION WAY
AUGUSTA GA, 30906**

ISSUED
ISSUED FOR BID

NOT FOR CONSTRUCTION

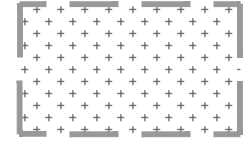
AIG:
 M&H NO.: 0119700-210463.01
 DATE: OCTOBER 22, 2024
 DESIGNED BY: NJH
 DRAWN BY: NJH
 CHECKED BY: EJS
 DO NOT SCALE DRAWINGS

SHEET CONTENTS
LEGEND & ABBREVIATIONS

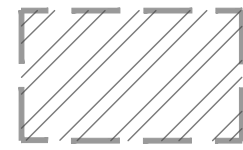
SHEET NO.

G-002

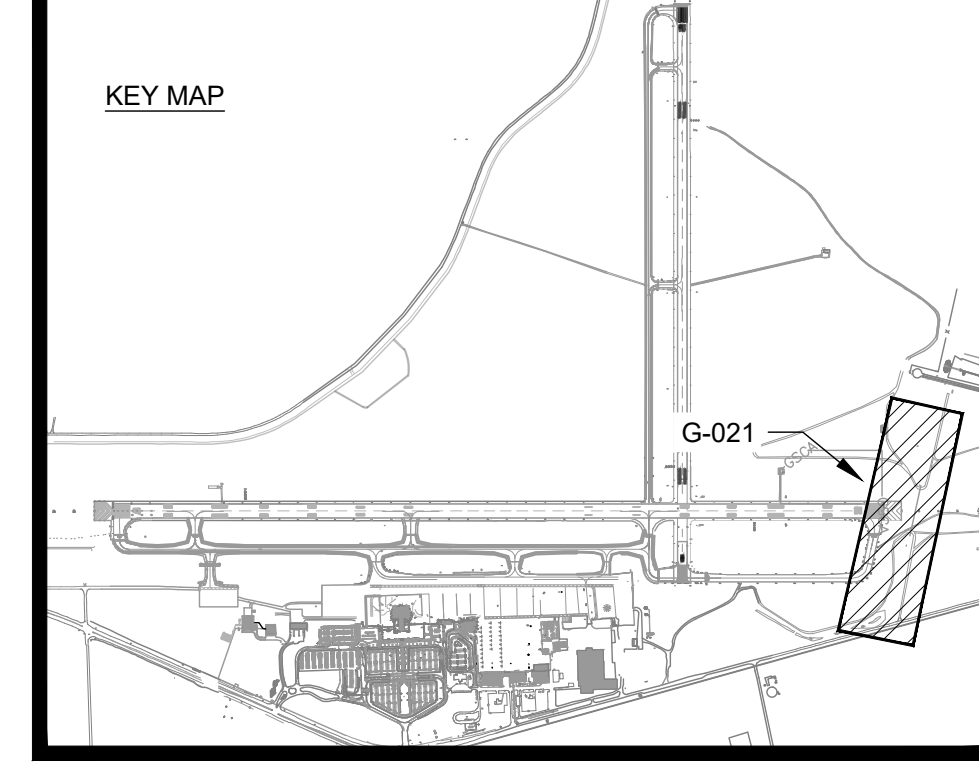
BID SCHEDULE LEGEND



BASE BID - WA 1, 2, 3, AND 4
 THE BASE BID SHALL CONSIST OF THE CLEARING AND GRUBBING OF THE EXISTING DITCH IN ITS ENTIRETY, THE DEMOLITION OF THE EXISTING 60" CMP WITHIN THE RUNWAY SAFETY AREA, AND THE CONSTRUCTION OF NEW CONCRETE STORM SEWER PIPE FROM STA. 10+00 TO APPROXIMATELY STA. 26+00.



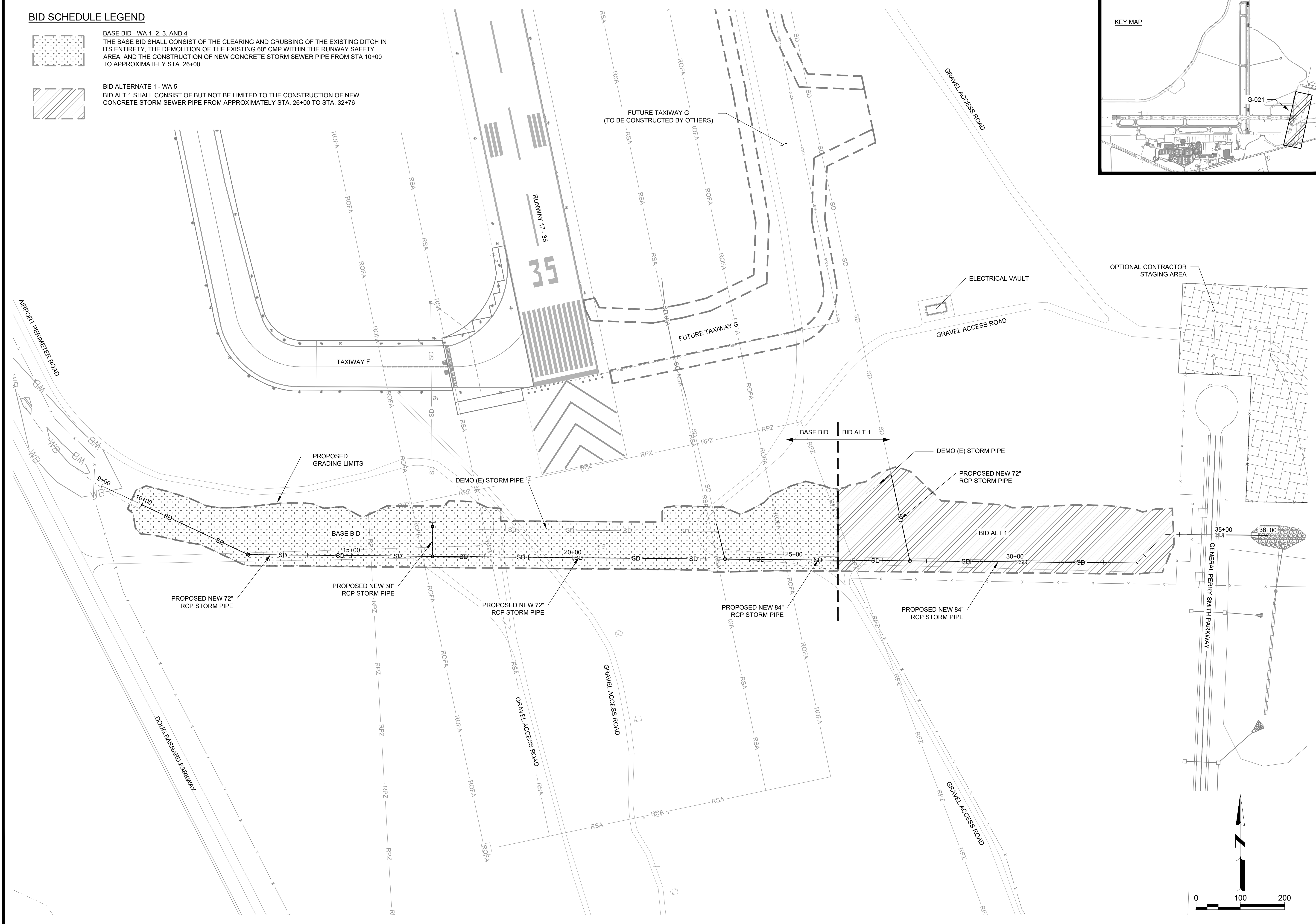
BID ALTERNATE 1 - WA 5
 BID ALT 1 SHALL CONSIST OF BUT NOT BE LIMITED TO THE CONSTRUCTION OF NEW CONCRETE STORM SEWER PIPE FROM APPROXIMATELY STA. 26+00 TO STA. 32+76



Mead & Hunt
 Mead and Hunt, Inc.
 5955 Core Road, Suite 515
 North Charleston, SC 29406
 phone: 843-486-8330
 meadhunt.com

AGS AUGUSTA REGIONAL AIRPORT

© Copyright 2022 Mead & Hunt, Inc. This document, or any portion thereof, shall not be duplicated, disclosed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt shall not be responsible for any unauthorized use of, or alteration to these documents.



**AUGUSTA REGIONAL AIRPORT
 SOUTHEAST DRAINAGE DITCH
 ENCLOSURE PH II**
 1501 AVIATION WAY
 AUGUSTA GA, 30906

ISSUED FOR BID

NOT FOR CONSTRUCTION

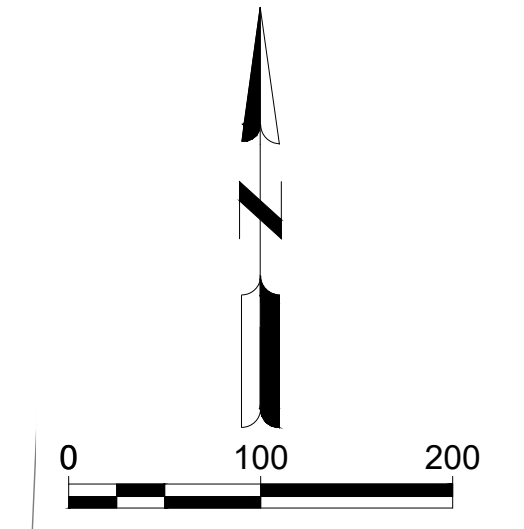
AGS:
 M&H NO.: 0119700-210463.01
 DATE: OCTOBER 22, 2024
 DESIGNED BY: NJH
 DRAWN BY: NJH
 CHECKED BY: EJS
 DO NOT SCALE DRAWINGS

SHEET CONTENTS
 PROJECT LAYOUT PLAN

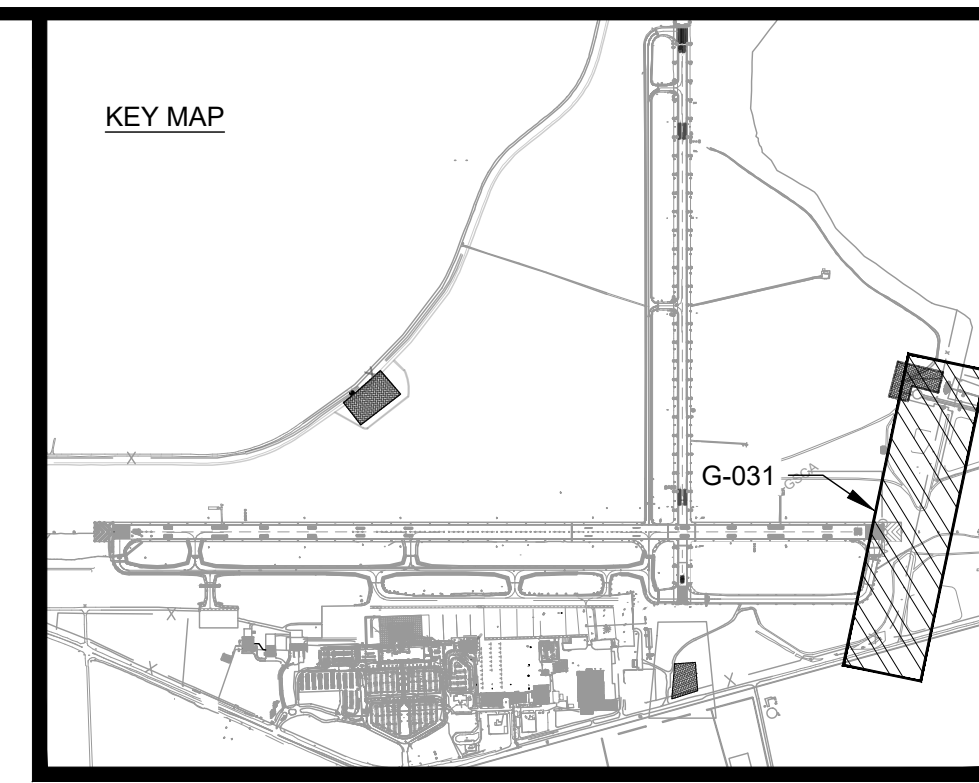
SHEET NO.

G-021

X:\0119700\210463\01\TECH\CADD\DRAWINGS\G-021 PROJECT LAYOUT PLAN.DWG
 10/22/2024 9:09:38 AM



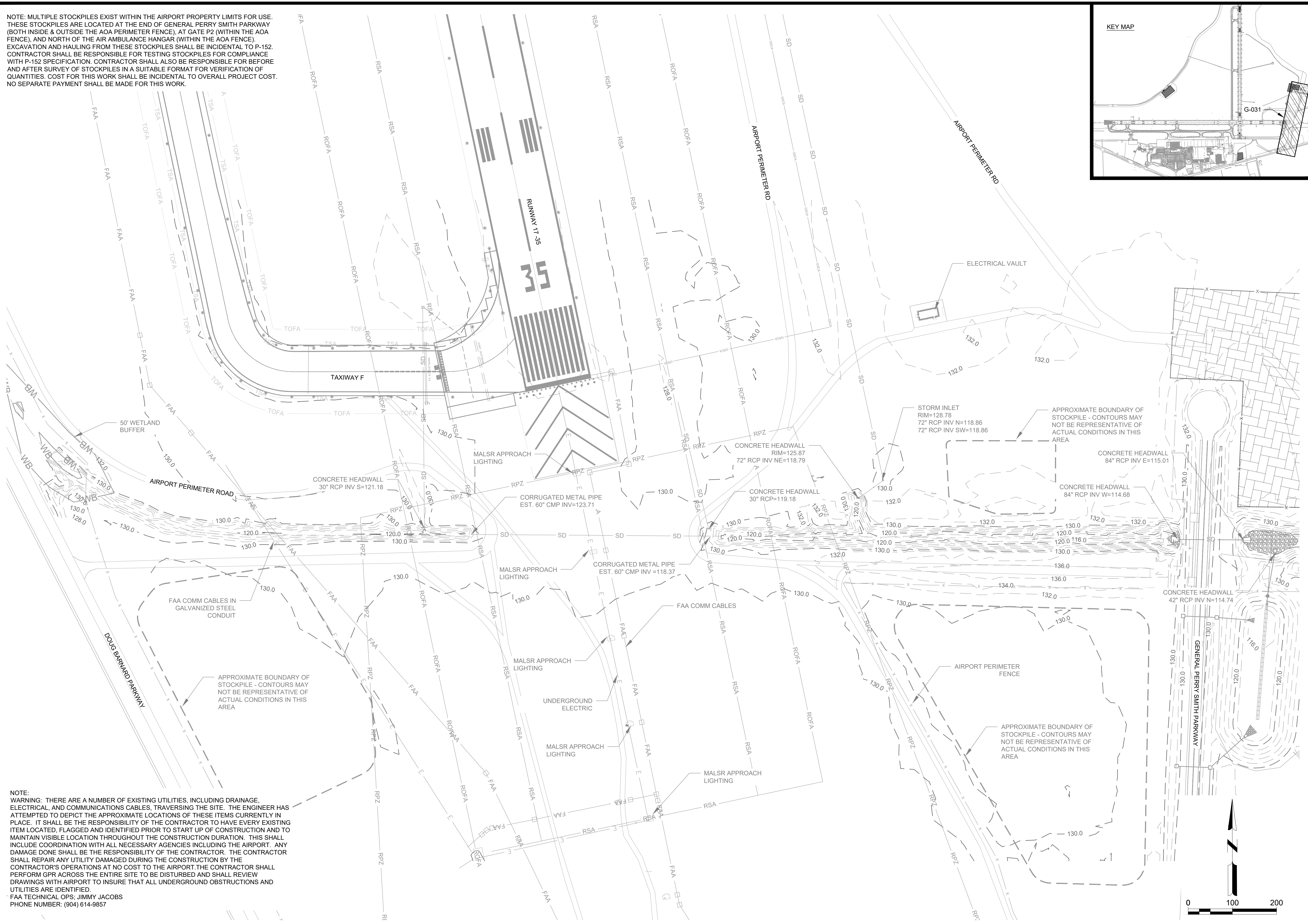
NOTE: MULTIPLE STOCKPILES EXIST WITHIN THE AIRPORT PROPERTY LIMITS FOR USE. THESE STOCKPILES ARE LOCATED AT THE END OF GENERAL PERRY SMITH PARKWAY (BOTH INSIDE & OUTSIDE THE AOA PERIMETER FENCE), AT GATE P2 (WITHIN THE AOA FENCE), AND NORTH OF THE AIR AMBULANCE HANGAR (WITHIN THE AOA FENCE). EXCAVATION AND HAULING FROM THESE STOCKPILES SHALL BE INCIDENTAL TO P-152. CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING STOCKPILES FOR COMPLIANCE WITH P-152 SPECIFICATION. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR BEFORE AND AFTER SURVEY OF STOCKPILES IN A SUITABLE FORMAT FOR VERIFICATION OF QUANTITIES. COST FOR THIS WORK SHALL BE INCIDENTAL TO OVERALL PROJECT COST. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK.



Mead & Hunt
 Mead and Hunt, Inc.
 5955 Core Road, Suite 515
 North Charleston, SC 29406
 phone: 843-486-8330
 meadhunt.com

AGS AUGUSTA
 REGIONAL AIRPORT

© Copyright 2022 Mead & Hunt, Inc.
 This document, or any portion thereof, shall not be duplicated, disclosed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt shall not be responsible for any unauthorized use of, or alteration to these documents.



NOTE:
 WARNING: THERE ARE A NUMBER OF EXISTING UTILITIES, INCLUDING DRAINAGE, ELECTRICAL, AND COMMUNICATIONS CABLES, TRAVERSING THE SITE. THE ENGINEER HAS ATTEMPTED TO DEPICT THE APPROXIMATE LOCATIONS OF THESE ITEMS CURRENTLY IN PLACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE EVERY EXISTING ITEM LOCATED, FLAGGED AND IDENTIFIED PRIOR TO START UP OF CONSTRUCTION AND TO MAINTAIN VISIBLE LOCATION THROUGHOUT THE CONSTRUCTION DURATION. THIS SHALL INCLUDE COORDINATION WITH ALL NECESSARY AGENCIES INCLUDING THE AIRPORT. ANY DAMAGE DONE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL REPAIR ANY UTILITY DAMAGED DURING THE CONSTRUCTION BY THE CONTRACTOR'S OPERATIONS AT NO COST TO THE AIRPORT. THE CONTRACTOR SHALL PERFORM GPR ACROSS THE ENTIRE SITE TO BE DISTURBED AND SHALL REVIEW DRAWINGS WITH AIRPORT TO INSURE THAT ALL UNDERGROUND OBSTRUCTIONS AND UTILITIES ARE IDENTIFIED.
 FAA TECHNICAL OPS; JIMMY JACOBS
 PHONE NUMBER: (904) 614-9857

**AUGUSTA REGIONAL AIRPORT
 SOUTHEAST DRAINAGE DITCH
 ENCLOSURE PH II
 1501 AVIATION WAY
 AUGUSTA GA, 30906**

ISSUED FOR BID

NOT FOR CONSTRUCTION

AGS:
 M&H NO.: 0119700-210463.01
 DATE: OCTOBER 22, 2024
 DESIGNED BY: NJH
 DRAWN BY: NJH
 CHECKED BY: EJS
 DO NOT SCALE DRAWINGS






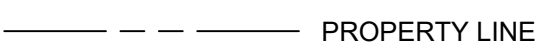
SHEET CONTENTS
 EXISTING
 CONDITIONS

SHEET NO.

G-031

X:\0119700\210463.01\TECH\DRAWINGS\G-031 EXISTING CONDITIONS.DWG 10/22/2024 9:10:03 AM

LEGEND:

-  CONTROL POINT
-  BENCHMARK
-  IRON PIN
-  PK or MAG NAIL
-  REBAR
-  PROPERTY LINE

SURVEY DATA:

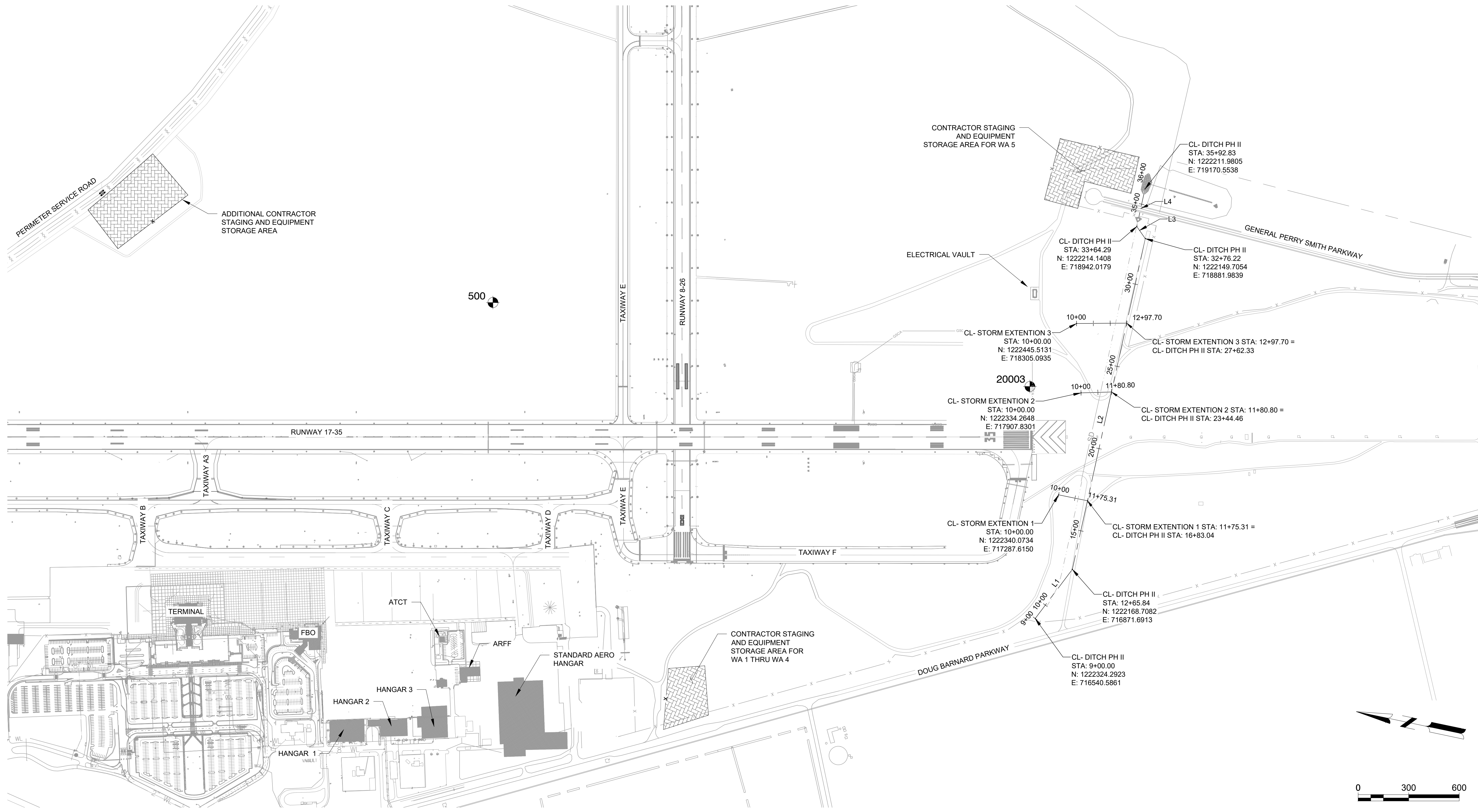
SURVEY DATE(S) 7/6/2016
 7/17/2020
 COORDINATE SYSTEM USGS NAD 83
 VERTICAL DATUM USGS NAVD 88
 CONTROL SOURCE SEE TABLE
 SURVEY UNITS US SURVEY FOOT

ALIGNMENT LINE DATA		
LINE #	LENGTH	BEARING
L1	365.84	S64° 49' 53.33"E
L2	2010.38	S89° 27' 30.29"E
L3	88.07	N42° 58' 29.32"E
L4	235.71	S89° 27' 30.29"E

PRIMARY SURVEY CONTROL TABLE				
POINT	LOCAL PROJECTION		NAVD88 ELEVATION	DESCRIPTION
	NORTHING	EASTING		
500	1225860.21	717712.10	134.30	SACS (FAA AGS ARP 2)
20003	1222624.55	717885.01	129.83	FAA AGS STA B AP

SITE SURVEY PLAN NOTES:

- PRIVATE SUBSURFACE UTILITY LOCATIONS SHOWN HEREON ARE BASED UPON GROUND MARKINGS PLACED BY CLIENT REPRESENTATIVE. MARKINGS MAY NOT BE BY BENEFIT OF SUBSURFACE DETECTING INSTRUMENTS AS SOME WERE MARKED PER PERSONNEL BEST RECOLLECTION.
- PUBLIC SUBSURFACE UTILITY LOCATIONS SHOWN HEREON ARE BASED UPON GROUND MARKINGS PLACED BY GEORGIA 811. GEORGIA 811 DOES NOT GUARANTEE THE PRECISION OF THEIR MARKINGS. IN ACCORDANCE WITH GEORGIA LAW, SUBSURFACE UTILITIES MUST BE EXPOSED VIA HAND DIGGING BEFORE MACHINE DIGGING IS PERMISSIBLE. UTILITY LOCATION MARKINGS ARE VALID FOR ONLY 10 DAYS. CONTRACTOR MUST ORDER NEW UTILITY LOCATE PRIOR TO ANY EXCAVATION.
- SANITARY SEWER AND STORM SEWER LOCATIONS HAVE BEEN DETERMINED BY OBSERVABLE SURFACE STRUCTURES AND RESPECTIVE FEATURES. INTERMEDIATE PIPE LOCATIONS ARE APPROXIMATE AS ACCURATE LOCATIONS WERE NOT AVAILABLE AT TIME OF SURVEY.
- CONTROL POINTS AND BENCHMARKS SHOWN HEREON ARE FOR REFERENCE PURPOSES ONLY. PRIOR TO STAKING, THE CONTROL MUST BE INDEPENDENTLY VERIFIED AS UNDISTURBED. NO WARRANTY IS MADE WITH RESPECT TO THE ACCURACY OF CONTROL SHOWN HEREON AS THEY ARE SUBJECT TO POTENTIAL DISTURBANCE.



Mead & Hunt
 Mead and Hunt, Inc.
 5955 Core Road, Suite 515
 North Charleston, SC 29406
 phone: 843-486-8330
 meadhunt.com

AGS AUGUSTA REGIONAL AIRPORT

© Copyright 2022 Mead & Hunt, Inc. This document, or any portion thereof, shall not be duplicated, disclosed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt shall not be responsible for any unauthorized use of, or alteration to these documents.

**AUGUSTA REGIONAL AIRPORT
 SOUTHEAST DRAINAGE DITCH
 ENCLOSURE PH II
 1501 AVIATION WAY
 AUGUSTA GA, 30906**

ISSUED
 ISSUED FOR BID

NOT FOR CONSTRUCTION

AGS:
 M&H NO.: 0119700-210463.01
 DATE: OCTOBER 22, 2024
 DESIGNED BY: NJH
 DRAWN BY: NJH
 CHECKED BY: EJS
 DO NOT SCALE DRAWINGS

SHEET CONTENTS
 SURVEY CONTROL
 PLAN

SHEET NO.

G-041

X:\0119700\210463.01\TECH\DRAWINGS\G-041 SURVEY CONTROL PLAN.DWG
 10/22/2024 9:10:17 AM

SUMMARY OF QUANTITIES			
SPEC.	ITEM	UNIT	QUANTITY
AGS SOUTHEAST DITCH PH II (BASE BID)			
C-100.1	Contractor Quality Control Program	LS	1
C-102.1a	Installation, Maintenance, and Removal of Silt Fence	LF	1650
C-102.1b	Construct, Maintain, and Remove Inlet Sediment Trap	EA	2
C-102.1c	Construct, Maintain, and Remove Construction Exit	EA	2
C-102.1e	Construct, Maintain, and Remove Rock Dam	EA	1
C-102.1f	Water Quality Monitoring and Sampling	EA	8
C-102.1g	Water Quality Inspections	EA	3
C-102.1h	Erosion Control Mobilization	LS	1
C-102.1i	Emergency Erosion Control Mobilization	LS	1
C-102.1j	Rip Rap, Type 1 18" Depth	SY	80
C-105.1	Mobilization, Cleanup, and Demobilization	LS	1
C-105.2	Airfield Safety and Traffic Control	LS	1
P-101.1	Remove Existing 48-72" Storm Sewer Pipe	LF	570
P-101.2	Remove Existing Concrete Headwall	EA	2
P-151.1	Tree Clearing and Grubbing	AC	2
P-152.1	Unclassified Excavation, Select Fill from Off-Site Material	CY	1810
P-152.2	Borrow Excavation, Select Fill from On-Site Material	CY	7250
P-152.3	Unsuitable/Over excavation	CY	1000
D-701.1	Concrete Sewer Pipe, 30-inch, Class V	LF	160
D-701.2	Concrete Sewer Pipe, 72-inch, Class V	LF	700
D-701.3	Concrete Sewer Pipe, 84-inch, Class V	LF	940
D-751.1	Airfield Inlet with Aircraft Rated Gate	EA	2
D-751.2	Airfield Manhole with Aircraft Rated Lid	EA	2
D-751.3	Connect New Storm Sewer Pipe to Existing Storm Pipe	EA	2
D-752.1	Concrete Storm Headwall	EA	2
T-901.1	Temporary Seeding	AC	5
T-901.2	Permanent Seeding	AC	5
T-901.3	Seeding, Staging Area	AC	1
T-904.1	Sodding	SY	165
T-905.1	Topsoiling (Obtain on Site or Removed from Stockpile)	CY	6900
T-905.2	Topsoiling, Staging Area	CY	2762
T-908.1	Mulching	AC	5

SUMMARY OF QUANTITIES			
SPEC.	ITEM	UNIT	QUANTITY
AGS SOUTHEAST DITCH PH II (BID ALTERNATE 1)			
C-100.1	Contractor Quality Control Program	LS	1
C-102.1a	Installation, Maintenance, and Removal of Silt Fence	LF	720
C-102.1b	Construct, Maintain, and Remove Inlet Sediment Trap	EA	1
C-102.1c	Construct, Maintain, and Remove Construction Exit	EA	1
C-102.1d	Construct, Maintain, and Remove Check Dam	EA	2
C-102.1e	Construct, Maintain, and Remove Rock Dam	EA	2
C-102.1f	Water Quality Monitoring and Sampling	EA	6
C-102.1g	Water Quality Inspections	EA	2
C-102.1h	Erosion Control Mobilization	LS	1
C-102.1i	Emergency Erosion Control Mobilization	LS	1
C-102.1j	Rip Rap, Type 1 18" Depth	SY	930
C-102.1k	Erosion Control Blanket/Matting	SY	300
C-105.1	Mobilization, Cleanup, and Demobilization	LS	1
C-105.2	Airfield Safety and Traffic Control	LS	1
P-101.1	Remove Existing 48-72" Storm Sewer Pipe	LF	75
P-101.2	Remove Existing Concrete Headwall	EA	1
P-152.1	Unclassified Excavation, Select Fill from Off-Site Material	CY	2430
P-152.2	Borrow Excavation, Select Fill from On-Site Material	CY	9720
P-152.3	Unsuitable/Over excavation	CY	1000
D-701.2	Concrete Sewer Pipe, 72-inch, Class V	LF	200
D-701.3	Concrete Sewer Pipe, 84-inch, Class V	LF	700
D-751.2	Airfield Manhole with Aircraft Rated Lid	EA	1
D-751.4	Connect Storm Sewer Pipe to Existing Storm Structure	EA	1
D-752.1	Concrete Storm Headwall	EA	1
T-901.1	Temporary Seeding	AC	4
T-901.2	Permanent Seeding	AC	4
T-901.3	Seeding, Staging Area	AC	1
T-904.1	Sodding	SY	80
T-905.1	Topsoiling (Obtain on Site or Removed from Stockpile)	CY	6900
T-905.2	Topsoiling, Staging Area	CY	2762
T-908.1	Mulching	AC	4

**AUGUSTA REGIONAL AIRPORT
SOUTHEAST DRAINAGE DITCH
ENCLOSURE PH II
1501 AVIATION WAY
AUGUSTA GA, 30906**

ISSUED
ISSUED FOR BID

NOT FOR CONSTRUCTION

AIG:
 M&H NO.: 0119700-210463.01
 DATE: OCTOBER 22, 2024
 DESIGNED BY: NJH
 DRAWN BY: NJH
 CHECKED BY: EJS
 DO NOT SCALE DRAWINGS

SHEET CONTENTS
 PROJECT QUANTITY
 TABLE

SHEET NO.

G-061

NOTE: SUMMARY OF QUANTITIES TABLE IS DESIGNED TO BE USED AS A REFERENCE IN THE FIELD. VALUES OUTLINED IN THE BID FORM TAKE SUPERIORITY OVER ANY VALUES SHOWN IN THE QUANTITY TABLE.

A. COORDINATION

1. PRECONSTRUCTION CONFERENCE.

- A. A PRECONSTRUCTION CONFERENCE WILL BE CONVENED AND CONDUCTED BY THE AIRPORT AND CONSTRUCTION ADMINISTRATION TEAM (CA TEAM). THIS CONFERENCE WILL BE USED TO DISCUSS OPERATIONAL SAFETY, TESTING, QUALITY CONTROL, QUALITY ACCEPTANCE, SECURITY, SAFETY, LABOR REQUIREMENTS, ENVIRONMENTAL FACTORS, AND OTHER FACTORS THAT WILL PERTAIN TO THIS CONSTRUCTION PROJECT.
- B. THE PRECONSTRUCTION CONFERENCE WILL BE CONDUCTED AS SOON AS PRACTICABLE AFTER THE CONTRACT HAS BEEN AWARDED AND HELD BEFORE THE NOTICE TO PROCEED IS GIVEN TO THE CONTRACTOR.
- C. PARTICIPANTS IN THE PRECONSTRUCTION CONFERENCE SHALL INCLUDE: AIRPORT STAFF, AIRPORT OPERATIONS, DESIGN TEAM, CONSTRUCTION ADMINISTRATION TEAM, FAA AIR TRAFFIC CONTROL, FAA TECH OPS, AIRPORT MAINTENANCE, FIRE CHIEF, CONTRACTOR, AND SUBCONTRACTORS.
- D. THE INFORMATION COVERED IN THIS MEETING WILL FOLLOW THE GUIDELINES OUTLINED IN AC 150/5300-9B, "PREDESIGN, PREBID, AND PRECONSTRUCTION CONFERENCES FOR AIRPORT GRANT PROJECTS."

2. CONTRACTOR PROGRESS MEETINGS

- A. DURING THE DURATION OF THE PROJECT, WEEKLY CONTRACTOR PROGRESS MEETINGS WILL BE HELD AND CONDUCTED BY THE CONSTRUCTION ADMINISTRATION TEAM.
- B. THE PROGRESS MEETINGS WILL COVER PROJECT SCHEDULE, CONSTRUCTION SAFETY, ISSUES, ETC.

3. FAA AIR TRAFFIC CONTROL ORGANIZATION COORDINATION

- A. COMMUNICATION WITH THE FAA AIR TRAFFIC CONTROL TOWER WILL BE COORDINATED BY THE AIRPORT STAFF, CONSTRUCTION ADMINISTRATION TEAM AND/OR THE AIRPORT OPERATIONS DIVISION.
- B. THE FAA AIR TRAFFIC CONTROL TOWER AND AIRPORT TECH OPS PERSONNEL WILL BE INVITED TO ATTEND THE PRECONSTRUCTION CONFERENCE AT WHICH TIME THE OVERALL CONSTRUCTION SCHEDULE WILL BE PRESENTED.
- C. A MEETING WILL BE SCHEDULED WITH THE FAA AIR TRAFFIC CONTROL PERSONNEL PRIOR TO THE START OF EACH MAJOR CONSTRUCTION PHASE WHICH SIGNIFICANTLY IMPACTS/MODIFIES AIRFIELD CLOSURES THROUGHOUT THE DURATION OF THE CONSTRUCTION PROJECT. PARTICIPANTS IN THESE MEETINGS SHALL INCLUDE: AIRPORT STAFF, AIRPORT OPERATIONS, DESIGN TEAM, CONSTRUCTION ADMINISTRATION TEAM, GDOT PROJECT MANAGER, FAA AIR TRAFFIC CONTROL, CONTRACTOR, AND SUBCONTRACTORS.

B. PROTECTION OF NAVIGATION AIDS (NAVAIDS)

CONTRACTOR WILL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EQUIPMENT, INCLUDING, BUT NOT LIMITED TO; COORDINATION WITH FAA TECH OPS PERSONNEL TO IDENTIFY BELOW GROUND CABLING, AND BARRICADING AROUND EQUIPMENT AS NECESSARY TO MAINTAIN SEPARATION BETWEEN CONTRACTORS' EQUIPMENT AND NAVAID EQUIPMENT. ANY DAMAGE WILL BE REPAIRED OR REPLACED AT CONTRACTORS' EXPENSE TO THE SATISFACTION OF THE OWNER. A NOTAM WILL BE ISSUED TO CLOSE RUNWAYS AFFECTED BY UNANTICIPATED POWER OUTAGES OR DAMAGING OF NAVAIDS, WITH THE CONTRACTOR IMMEDIATELY RESTORING POWER THROUGH COORDINATION OF THE OWNER.

CONTRACTOR ACCESS

C. CONSTRUCTION SITE ACCESS AND HAUL ROAD

- 1. HAUL ROADS TO BE USED ON THIS PROJECT ARE INDICATED ON THE DRAWINGS OR OTHERWISE SPECIFICALLY AUTHORIZED BY THE CA TEAM AND AIRPORT AUTHORITY. THE CONTRACTOR SHALL CONFINE ALL VEHICLES AND EQUIPMENT TO THE DESIGNATED CONSTRUCTION AREAS, STAGING AREAS AND HAUL ROUTES.
- 2. ACCESS POINTS TO THE PROJECT SITE ARE SHOWN ON THE DRAWINGS. THE SPECIFIED GATES SHALL BE MONITORED BY A CONTRACTOR SUPPLIED GUARD DURING ALL CONTRACTOR OPERATIONS WHILE THE GATE IS OPEN OR UNLOCKED.
- 3. THE CONTRACTOR SHALL RESTORE ALL TURFED AND PAVED AREAS USED FOR HAUL ROADS TO THEIR ORIGINAL CONDITION, INCLUDING ESTABLISHMENT OF NEW TURF. ALL COSTS FOR CONSTRUCTING, REMOVING, AND RESTORING OF HAUL ROADS REQUIRED FOR THE COMPLETION OF THE WORK SHALL BE BY THE CONTRACTOR UNDER MOBILIZATION. THE EXISTING CONDITION OF ALL ANTICIPATED HAUL ROUTES SHALL BE DOCUMENTED BY THE CONTRACTOR PRIOR TO HAULING.
- 4. THE CONTRACTOR SHALL NOT PERMIT ANY UNAUTHORIZED CONSTRUCTION PERSONNEL OR TRAFFIC ON THE PROJECT SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL TO AND FROM THE PROJECT SITE. CONTRACTOR PROVIDED DIRECTIONAL SIGNAGE AT THE ACCESS GATES AND ALONG THE DELIVERY ROUTE TO THE STAGING AREA AND PROJECT SITE SHALL BE SUBMITTED AND REVIEWED BY THE DESIGNER AND AIRPORT OPERATIONS PRIOR TO INSTALLATION.
- 5. ALL CONTRACTOR MATERIAL ORDERS FOR DELIVERY TO THE SITE SHALL BE DIRECTED TO THE ACCESS POINT IDENTIFIED OR CONTRACTOR STAGING AREA.
- 6. THE CONTRACTOR, THROUGH AIRPORT OPERATIONS/SECURITY, SHALL ESTABLISH AND MAINTAIN A LIST OF CONTRACTOR AND SUB-CONTRACTOR VEHICLES AUTHORIZED TO OPERATE ON THE PROJECT SITE. VEHICLE USE PERMITS SHALL BE OBTAINED BY THE CONTRACTOR IN ACCORDANCE WITH AIRPORT PROCEDURES.
- 7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE USE OF OFF-SITE ROUTES (STATE HIGHWAYS, COUNTY ROADS OR CITY STREETS) WITH THE APPROPRIATE OWNER WHO HAS JURISDICTION OVER THE AFFECTED ROUTE.
- 8. ALL VEHICLES USING HAUL ROUTES INCLUDING OFF-SITE ROUTES, SHALL BE COVERED TO PREVENT BLOWING AWAY OR SPILLAGE OF LOOSE MATERIAL. ALL SPILLAGES ON PUBLIC ROADWAYS AND SITE ROADS SHALL BE PROMPTLY CLEANED UP AND LEGALLY DISPOSED OF AT NO ADDITIONAL COST TO THE SPONSOR.
- 9. THE CONTRACTOR WILL NOT BE PERMITTED TO USE ANY ACCESS OR HAUL ROUTES OTHER THAN THOSE DESIGNATED ON THE CONTRACT DRAWINGS. EMERGENCY ACCESS BY AIRCRAFT RESCUE AND FIRE FIGHTING (ARFF) RIGHT-OF-WAY ON ACCESS ROADS, HAUL ROADS, TAXIWAYS, AND RUNWAYS SHALL NOT BE IMPEDED AT ANY TIME.
- 10. CONTRACTOR TO PROVIDE HAUL ROUTE WITH TRAFFIC CONTROL PLAN FOR APPROVAL TO AUGUSTA-RICHMOND COUNTY ENGINEER'S OFFICE FOR USE OF PUBLIC ROADS BETWEEN 11PM AND 7 AM A MINIMUM OF 7 DAYS PRIOR TO USE.

D. CONTRACTOR STAGING AREA

- 1. THE LIMITS OF CONSTRUCTION, CONTRACTOR'S STAGING AREA AND STOCKPILING AREAS REQUIRED FOR THE CONTRACTOR'S EXCLUSIVE USE DURING CONSTRUCTION ARE SHOWN ON THE PLANS. ADDITIONAL AREAS MAY BE REQUESTED BY THE CONTRACTOR AND APPROVED BY THE DESIGNER AND OWNER. THE CONTRACTOR SHALL PROVIDE DEVICES VISIBLE FOR BOTH DAY AND NIGHT USE TO DELINEATE THE PERIMETER OF ALL SUCH AREAS.
- 2. CONTRACTOR MAY UTILIZE THE EXISTING STAGING AREA THAT HAS BEEN ESTABLISHED IN PREVIOUS PROJECTS WHERE INDICATED ON THE PLANS. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND DRAINAGE STRUCTURES FROM ANY DAMAGE CAUSED WHILE THE AREA IS BEING USED AS A CONSTRUCTION STAGING AREA. ALL DAMAGE SHALL BE REPAIRED TO THE SATISFACTION OF THE AIRPORT AUTHORITY AND AT NO ADDITIONAL COST TO THE AIRPORT AUTHORITY. A STAGING AREA LAYOUT PLAN SHALL BE SUBMITTED TO AIRPORT AND THE DESIGNER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- 3. THE CONTRACTOR SHALL NOT PARK EQUIPMENT OR STORE MATERIALS WITHIN 10 FEET OF AOA FENCE AND/OR PERIMETER FENCE.
- 4. THE CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE PATTERNS AT THE STAGING AND STOCKPILE AREAS AND PROVIDE TEMPORARY ROUTING OF STORMWATER AROUND THE AREAS.
- 5. IN ORDER TO PREVENT SEDIMENT FROM LEAVING THE CONTRACTOR STAGING AREA, THE CONTRACTOR SHALL INSTALL TEMPORARY SILT FENCE AROUND THE STAGING AREA AND PROVIDE INLET PROTECTION DEVICES FOR ALL EXISTING DRAINAGE STRUCTURES IN ACCORDANCE WITH THE MANUAL FOR SEDIMENT AND EROSION CONTROL IN GEORGIA (LATEST EDITION) AND GDOT STANDARD DETAILS.
- 6. ALL EROSION CONTROL MEASURES WITHIN THE CONTRACTOR STAGING AREA SHALL BE INCIDENTAL TO SPECIFICATION ITEM C-102 TEMPORARY EROSION CONTROL.
- 7. CONTRACTOR SHALL INFORM THE CA TEAM ON A DAILY BASIS OF THE DAILY CONSTRUCTION ACTIVITIES, AS WELL AS, UPCOMING ACTIVITIES WITH THE INTENT TO LIMIT AIRPORT OPERATION CONFLICTS.
- 8. THE CONTRACTOR SHALL PROVIDE TEMPORARY UTILITIES TO THE SITE IF NEEDED. ALL COSTS ASSOCIATED WITH TEMPORARY UTILITIES SHALL BE INCIDENTAL TO C-105.
- 9. ALL STAGING AREAS SHALL BE INSPECTED AND APPROVED BY AIRPORT'S FIRE CHIEF. THE CONTRACTOR SHALL SUPPLY ANY AND ALL FIRE FIGHTING EQUIPMENT, PROTECTION AND SAFETY EQUIPMENT/SUPPLIES AS REQUESTED BY THE AIRPORT'S FIRE

CHIEF WITHIN 24 HOURS AFTER REQUESTED.

ARFF CHIEF - MAIN LINE: (706) 798-3236 DIRECT: (706) 798-2696 CELL: (706) 994-6416

10. CONTRACTOR SHALL SUPPLY COVERED TRASH AND RUBBISH DUMPSTERS AND ALL OTHER CONTAINERS FOR REMOVAL OF TRASH, RUBBISH, AND DEBRIS RESULTING FROM THE WORK OF THE CONTRACT. THE CONTRACTOR SHOULD NOT ALLOW DUMPSTERS TO OVERFLOW.

11. THE CONTRACTOR SHALL COMPLETELY CLEAN UP AND RESTORE THE ENTIRE STAGING AND STORAGE AREAS, AS APPROVED BY THE DESIGNER PRIOR TO FINAL COMPLETION. ALL UNUSED MATERIALS SHALL BE REMOVED FROM THE PROJECT SITE AT THE CONTRACTORS EXPENSE, UNLESS PRIOR APPROVAL HAS BEEN GIVEN FROM THE AIRPORT AND THE STAGING AREA GRADED SMOOTH, SLOPED TO DRAIN AND SEEDED. INCIDENTAL TO M-1 MOBILIZATION AND GENERAL CONDITIONS.

E. CONTRACTOR EMPLOYEE AND EQUIPMENT PARKING

- 1. ALL VEHICLES SHALL BE PARKED AND SERVICED IN THE DESIGNATED STAGING AND EMPLOYEE PARKING AREAS SHOWN ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR TRANSPORTING EMPLOYEES FROM THESE AREAS TO THE JOBSITE. ALL SERVICING SHALL BE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.
- 2. ALL MATERIALS AND EQUIPMENT WHEN NOT IN USE SHALL BE PLACED IN APPROVED AREAS WHERE THEY WILL NOT CONSTITUTE A HAZARD TO AIRCRAFT OPERATIONS AND NOT PENETRATE CLEARANCE HEIGHT RESTRICTIONS AS SHOWN ON THE CONSTRUCTION PLAN. ALL EQUIPMENT SHALL BE PARKED OUTSIDE THE ROFA WHEN NOT USED.

F. VEHICLE CONDITION

- 1. VEHICLES AND EQUIPMENT THAT ARE DEEMED A POTENTIAL HAZARD BY THE CA TEAM OR AIRPORT SHALL BE REMOVED FROM THE JOB SITE AND STAGED PROPERLY AT THE REQUEST OF THE CA TEAM. VEHICLES AND EQUIPMENT THAT LEAK ANY AUTOMOTIVE FLUID INCLUDING, BUT NOT LIMITED TO, OIL, HYDRAULIC FLUID, TRANSMISSION FLUID, GEAR OIL, GASOLINE, AND DIESEL, WILL BE REMOVED TO THE STAGING AREA AND NOT ALLOWED TO OPERATE ON ANY PAVED SURFACE. SECONDARY CONTAINMENT SHALL BE PROVIDED FOR ANY LEAKING VEHICLES UNTIL THEY CAN BE REMOVED FROM THE SITE. IF THE VEHICLE CANNOT BE REPAIRED WITHIN A FEW DAYS THE VEHICLE SHALL BE REMOVED FROM THE AIRPORT. LEAKING FLUIDS ON PAVEMENTS DAMAGE THE PAVEMENT.
- 2. THE CONTRACTOR SHALL CLEANUP, AT CONTRACTOR'S EXPENSE, ANY AND ALL LEAKS OR SPILLS. LEAKS ON PAVED SURFACES SHALL BE CLEANED UP IMMEDIATELY. SIGNIFICANT LEAK SPOTS ON PAVEMENT, AS DETERMINED BY THE CA TEAM, SHALL BE REPLACED WITH NEW PAVEMENT. ASPHALT WILL REQUIRE MILLING AND PLACEMENT OF NEW BITUMINOUS MATERIAL; PCC WILL REQUIRE SAW, REMOVAL AND REPAIR AS DIRECTED BY THE GA TEAM. DIRT OR GRAVEL AREAS WILL REQUIRE REMOVAL, LEGAL DISPOSAL AND REPLACEMENT OF THE AREA WITH SIMILAR APPROVED MATERIALS.

G. LOCATION OF STOCKPILED MATERIALS

- 1. THERE SHALL NOT BE ANY STOCKPILED MATERIALS IN THE ACTIVE RUNWAY OFA OR RPZ, TAXIWAY OFA, OR NAVAID CRITICAL AREAS. STOCKPILED MATERIAL OR EQUIPMENT SHALL NOT BE STORED NEAR AIRCRAFT TURNING AREAS OR OPERATIONAL MOVEMENT AREAS, APRONS, OR EXCAVATIONS AND TRENCHES. STOCKPILED MATERIALS SHALL NOT BE STORED NEAR NAVAIDS, VISUAL OR APPROACH AIDS, NOR SHALL THEY OBSTRUCT THE ATCT'S LINE OF SIGHT TO ANY RUNWAY OR TAXIWAY. THE CONTRACTOR SHALL ENSURE THAT STOCKPILED MATERIALS DO NOT CAUSE DEGRADED OR HAZARDOUS CONDITIONS TO AIRPORT OPERATIONS SAFETY. THIS INCLUDES DETERMINING AND VERIFYING THAT STOCKPILED MATERIALS ARE STORED AT AN APPROVED LOCATION, THAT THEY ARE PROPERLY STOWED TO PREVENT FOREIGN OBJECT DEBRIS (FOD), ATTRACTION BY WILDLIFE, OR OBSTRUCTION OF AIR OPERATIONS EITHER BY THEIR PROXIMITY TO NAVAIDS OR TO AIRCRAFT MOVEMENT AREAS.
- 2. ALL STOCKPILED MATERIAL(S)/SUPPLIES SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT RESULTING FROM AIRCRAFT BLAST OR WIND CONDITIONS. MATERIAL(S)/SUPPLIES SHALL NOT BE STORED WITHIN 500 FEET OF AIRCRAFT TURNING AREAS OR MOVEMENT AREAS. STOCKPILED MATERIAL(S)/SUPPLIES SHALL NOT EXCEED 15 FEET IN HEIGHT UNLESS THE CONTRACTOR HAS COMPLIED WITH ALL REQUIREMENTS FOR AIRSPACING AND SECURED APPROVAL FROM AIRPORT OPERATIONS. ALL MATERIAL(S)/SUPPLIES SHALL BE POSITIONED SO IT WILL NOT OBSTRUCT THE LINE OF SIGHT FROM THE CONTROL TOWER TO THE MOVEMENT AREA. MARKING AND LIGHTING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS CONTAINED IN THESE CONSTRUCTION PLANS. LOOSE MATERIALS, SUCH AS STRAW, SHALL BE COVERED AS DIRECTED BY CA TEAM.

H. VEHICLE AND PEDESTRIAN OPERATIONS

- 1. VEHICLE AND ACCESS ROUTES FOR AIRPORT CONSTRUCTION SHALL BE CONTROLLED AS NECESSARY TO PREVENT INADVERTENT OR UNAUTHORIZED ENTRY OF PERSONS, VEHICLES OR ANIMALS ONTO AIR OPERATION AREAS. NO VEHICLE SHALL ENTER THE AIR OPERATIONS AREA EXCEPT AT PREDETERMINED LOCATIONS. THE CONTRACTOR MAY BE REQUIRED TO USE A GUARD AT ACCESS GATES AND A FLAG PERSON TO CONTROL TRAFFIC CROSSING TAXIWAYS AND OTHER AIRCRAFT MOVEMENT AREAS DURING CERTAIN PHASES OF THE PROJECT. CONTRACTOR PERSONNEL WHO OPERATE VEHICLES IN THE AOA SHALL COMPLY WITH AC 150/5210-5 (LATEST VERSION), PAINTING, MARKING AND LIGHTING OF VEHICLES USED ON AN AIRPORT.
- 2. ALL CONSTRUCTION VEHICLES/MECHANIZED EQUIPMENT SHALL HAVE A VEHICLE PASS AS DETERMINED BY AIRPORT OPERATIONS DISPLAYED.
- 3. DURING NIGHTTIME HOURS, ALL EQUIPMENT OPERATING ON THE AIRPORT EXCEEDING 15 FEET IN HEIGHT SHALL BE LIT WITH A RED OBSTRUCTION LIGHT LOCATED ON THE UPPERMOST PORTION OF THE EQUIPMENT.
- 4. VEHICLES/MECHANIZED EQUIPMENT AUTHORIZED ON THE MOVEMENT AREA (RUNWAYS, TAXIWAYS, AND RAMPS) AND/OR ASSOCIATED SAFETY AREAS SHALL BE EQUIPPED WITH AN ELECTRICALLY POWERED, YELLOW COLOR, 360-DEGREE OMNI-DIRECTION LIGHT, OR 3' X 3' WHITE AND ORANGE CHECKERED FLAG MOUNTED ON THE VEHICLE SUCH THAT IT IS CONSPICUOUS FROM ANY DIRECTION.

I. REQUIRED ESCORTS

- 1. THE CONTRACTOR MUST PROVIDE AN ADEQUATE NUMBER OF ESCORTS FOR MATERIAL DELIVERIES ALONG HAUL ROUTES AND THE MOVEMENTS OF THE CONTRACTOR'S VEHICLES/MECHANIZED EQUIPMENT AND PERSONNEL WITHIN THE MOVEMENT AREA AND NON-MOVEMENT AREAS AS AUTHORIZED BY THE AIRPORT OPERATIONS. EACH ESCORT MAY ACCOMPANY A MAXIMUM OF 5 VEHICLES AT A TIME ACROSS MOVEMENT AREAS AND MUST MAINTAIN VISUAL ACCESS AT ALL TIMES.
- 2. DURING ANY ABSENCE OF THE APPROVED ESCORT(S) OR FOR PERIODS THAT THEY ARE UNABLE TO PERFORM THEIR SPECIFIED DUTIES, ALL WORK WITHIN THE MOVEMENT AREA AND ASSOCIATED SAFETY AREAS FOR PROJECTS SHALL STOP. ADDITIONALLY, ALL PERSONNEL AND EQUIPMENT SHALL BE ESCORTED TO APPROVED LOCATIONS OUTSIDE THE MOVEMENT AREA AND RELATED SAFETY AREAS. NO CONTRACT TIME EXTENSION WILL BE GRANTED FOR TIME LOST DUE TO THE ABSENCE OF ESCORT(S). WORK SHALL RESUME ONLY WITH THE RETURN OF THE APPROVED ESCORT(S).
- 3. THE ESCORT SHALL ASSURE THAT ALL EQUIPMENT MAINTAINS PROPER CLEARANCES FROM MOVING AIRCRAFT.

J. TRAINING REQUIREMENTS FOR VEHICLE DRIVERS

- 1. CONTRACTOR EMPLOYEES DESIGNATED AS ESCORTS, ARE REQUIRED TO BE BADGED BY AUGUSTA REGIONAL AIRPORT OPERATIONS / SECURITY, GO THROUGH SECURITY/DRIVER'S SAFETY TRAINING PROGRAM, AND PASS THE ASSOCIATED TEST. TRAINING IS BY APPOINTMENT ONLY. FURTHER ADDITIONAL AIRFIELD AND SITE TRAINING WILL BE PROVIDED WITH BADGED INDIVIDUALS UPON SUCCESSFUL COMPLETION OF CLASSROOM TRAINING AND BEFORE THE START OF CONSTRUCTION. ALL COSTS ASSOCIATED WITH BADGING SHALL BE AT THE CONTRACTOR'S EXPENSE.
- 2. MOVEMENT AREA ESCORT EMPLOYEES ARE REQUIRED TO COMPLETE AND PASS AN ADDITIONAL CLASS ON GROUND VEHICLE OPERATIONS.

K. TWO-WAY RADIO COMMUNICATIONS PROCEDURES

- 1. THE ONSITE PROJECT SUPERINTENDENT AND ANY FLAGMEN ASSIGNED TO THE PROJECT WILL BE REQUIRED TO MONITOR AIRPORT TWO-WAY RADIO COMMUNICATIONS BETWEEN THE AIR TRAFFIC CONTROL TOWER AND PILOTS. THE CONTRACTOR WILL NOT CONTACT THE TOWER OR PILOTS, BUT USE RADIO MONITORING TO STAY INFORMED ABOUT ONGOING AIRPORT OPERATIONS AND AIRCRAFT MOVEMENTS. AUTHORIZED MOVEMENT AREA ROUTES WILL BE DETERMINED BY THE CA TEAM AND AIRPORT OPERATIONS. THE CONTRACTOR SHALL NOT ENTER OR CROSS ANY OPEN RUNWAY OR TAXIWAY WITHOUT AN AUTHORIZED ESCORT FROM THE CA TEAM OR AIRPORT OPERATIONS. NON-COMPLIANCE WILL RESULT IN REMOVAL OF THE VIOLATOR FROM THE JOB SITE AND THE VIOLATOR'S AIRPORT IDENTIFICATION BADGE WILL BE CONFISCATED. IN ADDITION, CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ALL FINES ASSOCIATED WITH THE VIOLATION. FAA IS TYPICALLY \$11,000 MINIMUM PER OCCURRENCE. EMERGENCIES AND OPERATING CONDITIONS MAY NECESSITATE SUDDEN CHANGES, BOTH IN

AIRPORT OPERATIONS AND IN THE OPERATIONS OF THE CONTRACTOR. AIRCRAFT OPERATIONS SHALL ALWAYS HAVE PRIORITY OVER ANY AND ALL OF THE CONTRACTOR'S OPERATIONS. SHOULD RUNWAYS OR TAXIWAYS BE REQUIRED FOR THE USE OF AIRCRAFT AND SHOULD AIRPORT OPERATIONS, THE CONTROL TOWER, OR THE CA TEAM DEEM THE CONTRACTOR TO BE TOO CLOSE TO ACTIVE RUNWAYS OR TAXIWAYS THE CONTRACTOR SHALL SUSPEND HIS OPERATIONS, REMOVE HIS PERSONNEL, PLANT, EQUIPMENT, AND MATERIALS TO A SAFE DISTANCE AND STAND BY UNTIL THE RUNWAYS AND TAXIWAYS ARE NO LONGER REQUIRED FOR USE BY AIRCRAFT. THERE WILL BE NO COMPENSATION FOR DELAYS OR INEFFICIENCIES DUE TO THESE CHANGES.

2. FOR SCHEDULING CONTACT AIRFIELD OPERATIONS TRAINING AT (706) 796-4004.

3. CONTRACTOR SHALL PROVIDE RADIOS CAPABLE OF MONITORING AIRPORT FREQUENCY 121.90 MHZ.

L. MAINTENANCE OF THE RESTRICTED AREA OF THE AIRPORT

- 1. SPECIAL ACCESS REQUIREMENTS AND OPERATING LIMITATIONS ARE REQUIRED INSIDE THE SECURITY FENCE. THE CONTRACTOR SHALL DELINEATE WORK LIMITS WITHIN THESE AREAS AS PER THE PHASING PLAN. CONFINEMENT, EQUIPMENT AND MATERIALS OUTSIDE OF THE RUNWAY OBJECT FREE AREA (ROFA) WHEN RUNWAY IS ACTIVE. CONFINEMENT, EQUIPMENT AND MATERIALS OUTSIDE OF THE TAXIWAY OBJECT FREE AREA (TOFA) WHEN THE TAXIWAY IS ACTIVE. WORK SITE WILL GENERALLY BE ENCLOSED WITH CONSTRUCTION AREA MARKERS AS SHOWN ON THE SAFETY/PHASING PLAN. SEE THE SPECIFICATIONS FOR SPECIAL CONDITIONS AND FOR OTHER CONDITIONS RELATING TO SAFETY.
- 2. THE CONTRACTOR SHALL HAVE ACCESS TO THE AIRPORT ONLY AT THOSE LOCATIONS DESIGNATED ON THE PLANS. ALL OTHER ACCESS SHALL BE BY SPECIAL REQUEST AND SUBJECT TO APPROVAL BY AIRPORT OPERATIONS. THE CONTRACTOR WILL PROVIDE SECURITY PERSONNEL TO CONTROL MOVEMENTS THROUGH THE CONTRACTOR'S ACCESS GATE UNLESS THE GATE REMAINS LOCKED. THE CONTRACTOR SHALL REFER TO SPECIAL PROVISION SECTION SP-20 OF THE SPECIFICATIONS FOR THE REQUIREMENTS OF THE SECURITY PERSONNEL.

M. WILDLIFE MANAGEMENT

- 1. CONTRACTOR SHALL INSTRUCT EMPLOYEES NOT TO DISCARD FOOD OR OTHER TRASH ON OR AROUND WORK SITES THAT COULD ATTRACT WILDLIFE. CONTRACTOR EMPLOYEES SHALL NOT INTENTIONALLY FEED ANY WILDLIFE WHILE WORKING AT THE AIRPORT.
- 2. CONTRACTOR SHALL PROPERLY SEAL ALL TRASH CONTAINERS AT WORK SITES SUCH THAT WILDLIFE CANNOT GAIN ACCESS TO CONTAINERS DURING NON-CONSTRUCTION PERIODS.
- 3. CONTRACTOR SHALL NOTIFY AIRPORT OPERATIONS STAFF IF LARGE NUMBERS OF BIRDS OR MAMMALS ARE OBSERVED AT WORK SITES. CONTRACTOR SHALL IMMEDIATELY NOTIFY OPERATIONS STAFF IF MAMMALS ARE SIGHTED WITHIN THE AIRFIELD FENCE.

N. FOREIGN OBJECT DEBRIS (FOD) MANAGEMENT

- 1. THE CONTRACTOR SHALL HAVE AVAILABLE AT ALL TIMES A VACUUM TYPE MECHANICAL SWEEPER AND WATER TRUCK TO CLEAN ALL TAXIWAY AND APRON PAVEMENT OF DIRT, STONES, AND LOOSE DEBRIS WHERE CONSTRUCTION TRAFFIC CROSSES AT ALL ACTIVE AIRPORT PAVED SURFACES. NO DIRECT PAY WILL BE MADE FOR VACUUM AND WATER TRUCKS OR FOR PAVEMENT CLEANING.
- 2. NO DEBRIS SHALL BE ALLOWED TO REMAIN ON THE ROADWAYS OR AIRPORT PAVED SURFACES. ACTIVE TAXIWAYS AND APRONS SHALL BE KEPT FREE OF DEBRIS AT ALL TIMES. USING POWER VACUUM SWEEPERS TO KEEP ALL ACCESS AND CONSTRUCTION AREAS CLEAR OF SOILS, CLODS, OR OTHER DEBRIS. PAYMENT FOR VACUUM SWEEPING AND CLEANING OF RUNWAY, TAXIWAYS AND/OR APRONS IS INCIDENTAL TO ITEM C-105.
- 3. THE CONTRACTOR SHALL HAVE AVAILABLE ON-SITE AT ALL TIMES A METHOD OF PERIODIC SPRAYING OF ANY STOCKPILE, HAUL ROADS, OR EXPOSED AREAS TO LIMIT DUST.

O. NOTIFICATION OF CONSTRUCTION ACTIVITIES

- 1. PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL NOTIFY IN WRITING, AT LEAST 5 DAYS IN ADVANCE, AIRPORT STAFF AND THE CA TEAM OF ITS INTENTIONS TO BEGIN CONSTRUCTION, STATING THE PROPOSED TIME, DATE, AND AREA OF WHICH CONSTRUCTION IS TO OCCUR IN ORDER FOR THE APPROPRIATE NOTICE-TO-AIRMEN (NOTAM) TO BE ISSUED. DURING THE PERFORMANCE OF THIS CONTRACT, THE AIRPORT FACILITY SHALL REMAIN IN USE TO THE MAXIMUM EXTENT POSSIBLE. THE CONTRACTOR SHALL NOT ALLOW EMPLOYEES, SUBCONTRACTORS, SUPPLIERS, OR ANY OTHER UNAUTHORIZED PERSONS TO ENTER IN ANY AIRPORT AREA WHICH MAY BE OPEN FOR AIRCRAFT USE, EXCEPT AS NOTED ON THE CONSTRUCTION SAFETY PHASING PLAN.
- 2. CONTRACTOR SHALL INFORM THE CA TEAM ON A DAILY BASIS OF THE DAILY CONSTRUCTION ACTIVITIES.
- 3. NOTAMS
 - A. IN ORDER FOR THE CONTRACTOR TO OPERATE WITHIN AIRPORT PROPERTY, APPROPRIATE NOTICES TO AIRMEN (NOTAM) MUST BE ISSUED BY THE AIRPORT OPS DEPARTMENT THROUGH THE FAA FLIGHT SERVICE STATION. THESE NOTICES PROVIDE INFORMATION ON CLOSED, LIMITED, OR HAZARDOUS CONDITIONS TO AIRMEN AND USERS OF THE AIRPORT. A 72 HOUR NOTICE IS REQUIRED FOR ISSUANCE OF THE PROPER NOTAM, ALL CONSTRUCTION OPERATIONS MUST BE CLOSELY COORDINATED WITH THE DESIGNER FOR NOTAM ISSUANCE.
- 4. EMERGENCY NOTIFICATION PROCEDURES
 - A. THE CONTRACTOR SHALL IMMEDIATELY CALL 911 IF AN ACCIDENT OCCURS WITH INJURIES ON AIRPORT PROPERTY ADVISING THE LOCATION IS ON AUGUSTA REGIONAL AIRPORT FOR THEM TO COORDINATE WITH THE AIRPORT AUTHORITY.
 - B. THE CONTRACTOR SHALL ALSO IMMEDIATELY NOTIFY AIRPORT OPERATIONS TO COORDINATE ALL EMERGENCY EFFORTS, (706) 799-5372.
 - C. WITHIN 24 HOURS, THE CONTRACTOR SHALL PROVIDE A WRITTEN REPORT OF ALL ACCIDENTS TO AIRPORT OPERATIONS AND CA TEAM.
- 5. COORDINATION WITH ARFF
 - A. IF A FIRE OCCURS ON AIRPORT PROPERTY THE CONTRACTOR SHALL NOT ATTEMPT TO FIGHT THE FIRE BEYOND WHAT MAY BE DOUSED BY USE OF A FIRE EXTINGUISHER. THE CONTRACTOR SHALL IMMEDIATELY CALL 911 ADVISING THE LOCATION IS ON AUGUSTA REGIONAL AIRPORT FOR THEM TO COORDINATE WITH THE AIRPORT AUTHORITY.
 - B. NON-EMERGENCY COMMUNICATION WITH AIRPORT ARFF WILL BE COORDINATED BY THE CA TEAM.
 - C. AN AIRPORT ARFF REPRESENTATIVE WILL BE INVITED TO ATTEND THE PRECONSTRUCTION CONFERENCE AT WHICH TIME THE OVERALL CONSTRUCTION SCHEDULE WILL BE PRESENTED.
 - D. A MEETING WILL BE SCHEDULED WITH THE AIRPORT ARFF REPRESENTATIVE PRIOR TO THE START OF EACH MAJOR CONSTRUCTION PHASE WHICH SIGNIFICANTLY IMPACTS/MODIFIES AIRFIELD CLOSURES THROUGHOUT THE DURATION OF THE CONSTRUCTION PROJECT. PARTICIPANTS IN THESE MEETINGS SHALL INCLUDE: AIRPORT STAFF, AIRPORT OPERATIONS, DESIGN TEAM, CONSTRUCTION ADMINISTRATION TEAM, CONTRACTOR, AND SUBCONTRACTORS.



Mead and Hunt, Inc.
5955 Core Road, Suite 515
North Charleston, SC 29406
phone: 843-486-8330
meadhunt.com



© Copyright 2022 Mead & Hunt, Inc.
This document, or any portion thereof, shall not be duplicated, disclosed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt shall not be responsible for any unauthorized use of, or alteration to these documents.

AUGUSTA REGIONAL AIRPORT
SOUTHEAST DRAINAGE DITCH
ENCLOSURE PH II
1501 AVIATION WAY
AUGUSTA GA, 30906

ISSUED
ISSUED FOR BID

NOT FOR CONSTRUCTION

AGS:
MSH NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: NJH
DRAWN BY: NJH
CHECKED BY: EJS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
CONSTRUCTION
SAFETY & PHASING
PLAN NOTES

SHEET NO.

G-071

6. NOTIFICATION TO THE FAA

- A. THE CONTRACTOR'S USE OF CRANES, BOOM TRUCKS, CONCRETE PUMP TRUCKS, DRILL RIGS AND OTHER TALL OBJECTS WILL REQUIRE SUBMITTAL AND APPROVAL BY THE AIRPORT AND DESIGNER. IF ON AIRPORT PROPERTY, THE EQUIPMENT SHALL REQUIRE FAA AIRSPACE REVIEW AS SUBMITTAL ON FAA FORM 7460-1 NOTICE OF CONSTRUCTION.
- B. IF CONTRACTOR REQUIRES EQUIPMENT IN EXCESS OF MAXIMUM ALLOWABLE HEIGHT, THEN SUBMIT A 7460-1 30 DAYS IN ADVANCE OF CRANE ERECTION. ALL CONSTRUCTION INVOLVING CRANES SHALL FURTHER BE COORDINATED AT LEAST 5 DAYS IN ADVANCE, EXCLUDING WEEKENDS, WITH THE AIRPORT OPERATIONS. THIS DOES NOT INCLUDE THE TIME REQUIRED FOR AIRSPACE REVIEW. THE FOLLOWING INFORMATION AND ACTIONS ARE REQUIRED:

INCLUDE:

- LOCATION OF OBJECT.
- MAXIMUM EXTENDABLE HEIGHT.
- THE TOP OF EACH CRANE BOOM SHALL BE MARKED BY A 3' X 3' ORANGE AND WHITE CHECKERED FLAG -- EACH BOX BEING 1' SQUARE.
- EACH CRANE SHALL BE LOWERED AT NIGHT AND DURING PERIODS OF POOR VISIBILITY AS DIRECTED BY AIRPORT OPERATION. IN THE EVENT THE CRANE IS APPROVED TO REMAIN EXTENDED DURING THE HOURS FROM SUNSET TO SUNRISE, THE HIGHEST POINT OF THE CRANE BOOM WILL BE LIT WITH A RED OBSTRUCTION LIGHT IN ACCORDANCE WITH AC 70/7460-1.

P. INSPECTION REQUIREMENTS

1. CONSTRUCTION EQUIPMENT: THE CONTRACTOR SHALL INSPECT ALL CONSTRUCTION EQUIPMENT ON A DAILY BASIS TO ENSURE THAT THE EQUIPMENT IS IN GOOD WORKING ORDER AND THAT ORANGE AND WHITE CONSTRUCTION FLAGS AND BEACONS ARE PRESENT, CLEAN, AND IN GOOD CONDITION.
2. CONSTRUCTION BARRICADES: THE CONTRACTOR SHALL INSPECT ALL CONSTRUCTION BARRICADES ON A DAILY BASIS TO ENSURE THAT BARRICADES ARE IN GOOD CONDITION AND THAT FLASHING BEACONS ARE IN WORKING ORDER. IF BARRICADES ARE DAMAGED THEY SHALL BE REMOVED FROM THE CONSTRUCTION SITE AND REPLACED IMMEDIATELY. ANY INOPERABLE FLASHING LIGHTS SHALL BE REMOVED AND REPLACED AT THE END OF EVERY DAY.
3. CONSTRUCTION EQUIPMENT FUELING AREA: THE CONTRACTOR SHALL INSPECT THE CONSTRUCTION EQUIPMENT FUELING AREA DAILY. ANY FUEL SPILLS WILL BE REPORTED TO AIRPORT OPERATIONS AS SOON AS SPILL HAS BEEN IDENTIFIED. IF TEMPORARY FUEL TANKS ARE SUPPLIED BY THE CONTRACTOR THEY MUST BE SURROUNDED BY CONCRETE JERSEY BARRIERS. ALSO, TANKS MUST BE MARKED FLAMMABLE ON ALL SIDES AND LABELED WITH THE TYPE OF FUEL THEY CONTAIN. THE CONTRACTOR IS RESPONSIBLE FOR PREPARING AN SPCC FOR THE FUEL TANKS, IF REQUIRED, IN ACCORDANCE WITH FEDERAL REGULATIONS.
4. ACTIVE AIRPORT PAVEMENTS: THE CONTRACTOR SHALL INSPECT ALL ACTIVE AIRPORT PAVEMENTS CONTINUOUSLY DURING CONSTRUCTION ACTIVITIES. MATERIALS TRACKED ONTO ACTIVE AIRPORT PAVEMENTS MUST BE CONTINUOUSLY REMOVED DURING THE PROJECT. PRIOR TO LEAVING THE CONSTRUCTION SITE AT THE END OF EACH DAY, THE CONTRACTOR MUST CONTACT AIRPORT OPERATIONS FOR AN INSPECTION OF THE CLEANLINESS OF AIRPORT PAVEMENTS.
5. A FINAL SAFETY INSPECTION MAY BE REQUIRED PRIOR TO ALLOWING AIR CARRIER SERVICE. THE AIRPORT AUTHORITY WILL COORDINATE AS NECESSARY WITH THE FAA AIRPORT CERTIFICATION SAFETY INSPECTOR TO DETERMINE IF A FINAL INSPECTION WILL BE NECESSARY.

Q. UNDERGROUND UTILITIES

1. THE CONTRACTOR SHALL IDENTIFY ANY KNOWN UNDERGROUND INTERFERENCES OR DISCREPANCIES ON ALL AVAILABLE DRAWINGS THAT CAN BE PROVIDED BY CONTACTING THE DESIGNER AND THE CA TEAM AT:

MEAD & HUNT, INC.

5955 Core Road

Suite 515

NORTH CHARLESTON, SC 29406

PHONE: (803) 520-2986

2. PRIOR TO COMMENCING ANY EXCAVATION (ON OR OFF AOA), DRILLING (ON OR OFF THE AOA), DRIVING FENCE POSTS (ALONG THE AOA), TRENCHING (ON OR OFF THE AOA), SAW CUTTING (AOA ONLY), THE CONTRACTOR SHALL PERFORM GPR ACROSS THE ENTIRE SITE TO BE DISTURBED AND SHALL REVIEW DRAWINGS WITH AIRPORT TO INSURE THAT ALL UNDERGROUND OBSTRUCTIONS AND UTILITIES ARE IDENTIFIED. IN ADDITION THE CONTRACTOR SHALL CONTACT GEORGIA 811 AND FAA AND COORDINATE WITH THE AIRPORT PROJECT SUPERVISOR TO ASSIGN THE VERIFICATION OF UTILITIES BY AIRPORT MAINTENANCE. GEORGIA 811 FAA, AIRPORT AUTHORITY MAINTENANCE, AND THE CONTRACTOR SHALL ATTEMPT TO LOCATE UTILITIES. THE CONTRACTOR WILL BE COMPLETELY RESPONSIBLE FOR ALL DAMAGE TO UNDERGROUND UTILITIES. THE CONTRACTOR SHALL COORDINATE REQUEST FOR SWEEPS OF UTILITIES BY COMPLETING THE CONTRACTOR REQUEST FOR SWEEP FORM AT LEAST 72 HOURS PRIOR TO ANY EXCAVATIONS. AIRPORT AUTHORITY WILL NOTIFY THE CONTRACTOR A MINIMUM WITH 24 HOURS AFTER RECEIVING NOTICE. AT THAT TIME THE AIRPORT AUTHORITY WILL INDICATE IF IT CAN COMPLETE THE SWEEP. IF IT CANT, THE CONTRACTOR WILL BE RESPONSIBLE TO COMPLETE THE SWEEP AND/OR USE GEORGIA 811.
3. EACH UTILITY SHALL BE SWEEPED IN THE FOLLOWING MANNER: FLAGS CAN BE USED BUT SHALL BE COLOR COORDINATED AS SUGGESTED BELOW. IN ADDITION THE "ACRONYM" FOR THAT UTILITY SHALL BE WRITTEN ON ONE SIDE OF THE FLAG WITH A PERMANENT MARKER.
4. STAKES CAN BE USED. THE TOP TWO INCHES OF THE STAKE SHALL BE PAINTED IN COLOR AS SUGGESTED BELOW. IN ADDITION THE "ACRONYM" FOR THAT UTILITY SHALL BE WRITTEN ON ONE SIDE OF THE STAKE WITH A PERMANENT MARKER. STAKES SHOULD NOT BE USED IN RSA OR TSA IF THEY CAN BE AVOIDED.
5. PAINTING IS ONLY AUTHORIZED ON ASPHALT, CONCRETE, AND METAL SURFACES. MARKINGS SHALL BE COLOR COORDINATED AS SUGGESTED BELOW. THE ACRONYM FOR THE UTILITY SHALL BE USED FOR EACH UTILITY. A LINE THAT SHOWS THE DIRECTION OF THE UTILITY SHALL EMANATE FROM THE ACRONYM IN EACH DIRECTION.
6. ALL MARKING OF UTILITIES SHALL BE EVERY 50 FEET.

	ACRONYM	COLOR
ELECTRICAL LOOPS (NON AOA)	USE "ELEC"	RED
AIRFIELD ELECTRICAL	USE "ELEC"	RED
NATURAL GAS	USE "NAT GAS"	YELLOW
SANITARY	USE "SANIT"	BROWN
STORM	USE "STORM"	BROWN
WATER (POTABLE AND FIRE)	USE "WATER"	BLUE
FAA COPPER	USE "FAA COP"	RED
FAA FIBER	USE "FAA FIB"	ORANGE
FIBER	USE "FIBER"	ORANGE
TELEPHONE	USE "TELE"	ORANGE

7. IF UNDERGROUND UTILITY IS ABANDONED, CONTRACTOR SHALL STILL STAKE, MARK, OR FLAG BUT WRITE DOWN "ABAND" BEFORE THE ABBREVIATED PREFIX INDICATED ABOVE.
8. THE INDIVIDUAL MARKING, STAKING, OR FLAGGING SHALL MARK THE UTILITIES IN A WAY THAT COINCIDES WITH THE

DRAWINGS THAT ARE REFERENCED ON THE REQUEST FOR SWEEP FORM.

9. IF A UTILITY OR ANY UNDERGROUND OBSTRUCTION IS FOUND IT SHALL BE REPORTED IMMEDIATELY TO THE DESIGNER OR THE AIRPORT AUTHORITY PROJECT SUPERVISOR.
10. CONTRACTOR EMPLOYEES IN AN EXCAVATION SHALL BE PROTECTED FROM CAVE-INS BY AN ADEQUATE PROTECTIVE SYSTEM UNLESS THE EXCAVATION IS:
 - A. MADE ENTIRELY OF STABLE ROCK, OR
 - B. LESS THAN 5 FEET DEEP AND DETERMINATION HAS BEEN MADE THAT THERE IS NO POTENTIAL FOR A CAVE-IN.
11. EXCAVATION SHALL BE PROTECTED PER OSHA STANDARDS.

R. PENALTIES

1. ENTERING THE MOVEMENT AREA (I.E. RUNWAYS, TAXIWAYS, ETC.) WITHOUT AUTHORIZATION FROM THE FAA AIR TRAFFIC CONTROL TOWER AND THE AIRPORT OPERATIONS WILL RESULT IN THE SUSPENSION OF AN ASSIGNED ID BADGE AND/OR RAMP DRIVING PRIVILEGES AND COULD SUBJECT THE CONTRACTOR'S KEY PERSONNEL TO PERMANENT REVOCATION OF THEIR AIRFIELD DRIVING PRIVILEGES. FURTHERMORE, RUNWAY INCURSIONS MAY RESULT IN FINES AND/OR TERMINATION OF THIS CONTRACT. CONTRACTOR IS SOLELY RESPONSIBLE FOR THESE FINES FOR THEIR FORCES AS WELL AS ANY SUBCONTRACTORS, SUPPLIERS, OR ANY OTHERS EMPLOYED BY THE CONTRACTOR ON THIS PROJECT.

S. RUNWAY AND TAXIWAY VISUAL AIDS

1. TAXIWAY VISUAL AIDS, INCLUDING ANY TEMPORARY TAXIWAY PAVEMENT MARKING WILL BE AS SHOWN ON THE PLANS AND PROVIDED BY THE CONTRACTOR. MARKINGS SHALL BE IN COMPLIANCE WITH AC 150/5340-1, STANDARDS FOR AIRPORT MARKINGS. LIGHTING SHALL CONFORM TO AC150/5340-30, DESIGN AND INSTALLATION DETAILS FOR AIRPORT VISUAL AIDS, AC 150/5345-50-B, SPECIFICATIONS FOR PORTABLE RUNWAY TAXIWAY LIGHTS, AND AC 150/5345-53 AIRPORT LIGHTING CERTIFICATION PROGRAM. SIGNS SHALL CONFORM TO AC 150/5345-44, SPECIFICATION FOR RUNWAY AND TAXIWAY SIGNS, AC 150/5340-18-G, STANDARDS FOR AIRPORT SIGN SYSTEMS, AND AC 150/5345-53, AIRPORT LIGHTING CERTIFICATION PROGRAM.
2. IF AIRCRAFT OPERATION AREAS MUST BE CLOSED, THE CONTRACTOR SHALL FURNISH AND PLACE PORTABLE BARRICADES ACROSS TAXIWAYS TO KEEP VEHICLES FROM ENTERING ACTIVE OPERATION AREAS AND TO KEEP AIRCRAFT FROM TAXIING INTO CONSTRUCTION AREAS. EXCAVATION AND OPEN TRENCHES MAY BE PERMITTED UP TO THE EDGE OF AN APRON PROVIDED THE DROP OFF IS APPROPRIATELY MARKED AND LIGHTED. BARRICADES SHALL BE MARKED WITH DIAGONAL, ALTERNATING ORANGE AND WHITE STRIPES AND SUPPLEMENTED WITH EITHER FLASHING LIGHTS DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS. LIGHTS SHALL BE BARRICADE TYPE TYPICAL FOR CONSTRUCTION ZONES, AND RED IN COLOR. ALL LIGHTS MUST BE CHECKED NIGHTLY TO ENSURE THAT THEY ARE OPERATING. ANY LIGHTS NOT FUNCTIONING SHALL BE IMMEDIATELY REPLACED.
3. BARRICADES LOCATED WITHIN AIRCRAFT OPERATION AREAS SHALL BE LOW LEVEL AVIATION BARRICADES SPECIFICALLY MANUFACTURED AND DESIGNED FOR SUCH PURPOSE. THEY SHALL BE ALTERNATING ORANGE AND WHITE IN COLOR 10" HIGH AND 96" LONG, MADE OF UV-RESISTANT POLYETHYLENE AS MANUFACTURED BY MULTI-BARRIER (MODEL AR 10X96 HDPE) OR APPROVED EQUAL.

T. MARKING AND SIGNS FOR ACCESS ROUTES

1. MARKINGS AND SIGNS USED ON ACCESS ROUTES SHALL CONFORM TO AC 150/5340-18G AND, TO THE EXTENT PRACTICABLE, WITH THE MOST CURRENT VERSION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

U. HAZARD MARKING

1. HAZARD-MARKING BARRICADES, TRAFFIC CONES, FLASHERS, ETC. SHOULD BE USED: TO IDENTIFY AND DEFINE THE LIMITS OF CONSTRUCTION MAKING THEM VISIBLE TO AIRCRAFT, PERSONNEL, OR VEHICLES; TO IDENTIFY HAZARDS SUCH AS OPEN MANHOLES, SMALL AREAS UNDER REPAIR, STOCKPILED MATERIAL, WASTE AREAS, ETC.; TO PREVENT AIRCRAFT FROM TAXIING ONTO A CLOSED TAXIWAY; AND TO IDENTIFY FAA, AIRPORT, AND NATIONAL WEATHER SERVICE FACILITIES, CABLES, POWER LINES, INSTRUMENT LANDING SYSTEM (ILS) CRITICAL AREAS, AND OTHER SENSITIVE AREAS TO PREVENT DAMAGE, INTERFERENCE, AND FACILITY SHUTDOWN. HAZARDOUS AREAS, IN WHICH NO PART OF AN AIRCRAFT MAY ENTER, SHOULD BE INDICATED BY THE USE OF BARRICADES MARKED WITH DIAGONAL, ALTERNATING ORANGE AND WHITE STRIPES. THE BARRICADES SHOULD BE SUPPLEMENTED WITH ALTERNATING ORANGE AND WHITE FLAGS, AND INSTALLED SO THAT THEY ARE ALWAYS IN THE EXTENDED POSITION AND PROPERLY ORIENTED. DURING REDUCED VISIBILITY OR NIGHT HOURS, THE BARRICADES SHOULD BE SUPPLEMENTED WITH FLASHING RED LIGHTS. THE INTENSITY OF THE LIGHTS AND SPACING FOR BARRICADES, FLAGS, AND LIGHTS SHOULD BE ADEQUATE TO DELINEATE THE HAZARDOUS AREA WITHOUT AMBIGUITY. THE CONTRACTOR SHALL HAVE A DESIGNATED PERSON ON CALL 24-HOURS A DAY FOR EMERGENCY MAINTENANCE OF AIRPORT HAZARD LIGHTING AND BARRICADES.

V. MARKING AND LIGHTING

1. LOW PROFILE LIGHTS, RETROREFLECTIVE TAXIWAY EDGE MARKERS, AND LOW LEVEL BARRICADES SHALL BE PROVIDED AND ERECTED BY THE CONTRACTOR AS SHOWN ON THE PLANS OR AS DIRECTED BY THE CA TEAM. ALL CONSTRUCTION AREAS, INCLUDING CLOSED TAXIWAYS, SHOULD BE CLEARLY AND VISIBLY SEPARATED FROM ACTIVE AIR OPERATION AREAS. HAZARD AREAS, FACILITIES, CABLES, AND POWER LINES SHOULD ALSO BE CLEARLY IDENTIFIED BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE CONDITION AND VISIBILITY OF ALL MARKERS IDENTIFYING ABOVE-MENTIONED AREAS AND THAT MARKING AND LIGHTING AIDS REMAIN IN PLACE. ALTERNATING ORANGE AND WHITE FLAGLINES, TRAFFIC CONES, OMNIDIRECTIONAL YELLOW FLASHERS, AND/OR SIGNS SHOULD BE USED AS NECESSARY TO CLEARLY SEPARATE ALL CONSTRUCTION/MAINTENANCE AREAS FROM OTHER PARTS OF THE AOA. ALL BARRICADES, TEMPORARY MARKERS, FLAGLINES SUPPORTS, AND OTHER OBJECTS PLACED AND LEFT IN SAFETY AREAS ON ANY OPEN TAXIWAY, OR TAXILANE SHOULD BE AS LOW AS POSSIBLE TO THE GROUND; OF LOW MASS; EASILY COLLAPSIBLE UPON CONTACT WITH AN AIRCRAFT OR ANY OF ITS COMPONENTS; WEIGHTED DOWN OR STURDILY ATTACHED TO THE SURFACE TO PREVENT DISPLACEMENT FROM PROPWASH, JET BLAST, WING VORTEX, OR OTHER SURFACE WIND CURRENTS; AND IF AFFIXED TO THE SURFACE, FRANGIBLE AT GROUND LEVEL.

W. LOW PROFILE BARRICADES

1. THE CONTRACTOR SHALL PROVIDE LOW PROFILE BARRICADES AS DESCRIBED IN THE PLANS ALONG RUNWAY OR TAXIWAY EDGES WHEREVER OPEN EXCAVATIONS OR IRREGULAR GRADES ARE LEFT WITHIN THE SAFETY AREA OF AN ACTIVE RUNWAY OR TAXIWAY OR WHERE TEMPORARY PAVEMENT CLOSURES OR AIRCRAFT LIMITATIONS ARE REQUIRED. BARRICADES ALONG ACTIVE APRON OR TAXIWAY PAVEMENT SHALL BE PLACED APPROXIMATELY 10 FEET FROM THE EDGE OF THE FULL STRENGTH PAVEMENT, WHERE POSSIBLE, OR AS SHOWN ON THE OPERATIONAL AND PHASING PLANS OR AS DETERMINED BY THE DESIGNER AND AIRPORT OPERATIONS TO DELINEATE THE CONTRACTORS WORK AREAS. GAP BETWEEN BARRICADES SHALL BE NO MORE THAN 8 FEET END TO END. NO GAPS ARE ALLOWED BETWEEN BARRICADES LOCATED ADJACENT TO RUNWAY SAFETY AREAS.
2. THE CONTRACTOR SHALL MAINTAIN THE LIGHTS AND BARRICADES IN AN OPERABLE CONDITION FOR THE DURATION OF THE PROJECT.
3. ALL BARRICADES SHALL BE CHECKED VISUALLY FOR SIGNS OF WEAR AND TEAR ON A WEEKLY BASIS AND SHALL BE REPAINTED AND/OR REPLACED WHEN DEEMED APPROPRIATE BY THE CA TEAM. THE CONDITION OF LIGHTING UNITS SHALL BE CHECKED DAILY. ALL LIGHT FIXTURES SHALL BE VERIFIED OPERATING BY THE CONTRACTOR ON A DAILY BASIS BEFORE THE CONTRACTOR CEASES OPERATION FOR THE DAY. THE AREAS AROUND ALL BARRICADES SHALL BE CLEANED AT LEAST ONCE EACH WEEK AND THE CONTRACTOR SHALL SWEEP UP ACCUMULATED DEBRIS AND REMOVE IT FROM THE SITE. ALL ACTIVITIES CONDUCTED ADJACENT TO ACTIVE RUNWAYS OR TAXIWAYS SHALL BE COORDINATED WITH THE CA TEAM.
4. BARRICADES SHALL BE AS SHOWN ON DETAILS, G-082. ALL INCIDENTAL CONNECTORS, SPACERS, SPLICE PLATES, ETC., SHALL BE PAINTED WHITE.
5. ALTERNATE FORMS OF BARRICADES MAY BE PROPOSED BY THE CONTRACTOR WHICH MEET THESE FUNCTIONAL REQUIREMENTS. APPROVALS OF ANY SUCH SUBSTITUTION (IF GRANTED) SHALL BE BY THE AIRPORT AUTHORITY'S OPERATIONS AND THE CA TEAM.
6. THE FINAL LOCATION FOR THE BARRICADES SHALL BE ESTABLISHED IN THE FIELD WITH CONCURRENCE FROM THE CA TEAM AND AIRPORT OPERATIONS.
7. THE CONTRACTOR SHALL HAVE REPLACEMENT BARRICADES, LIGHTS AND BATTERIES ON SITE AND SHALL REPLACE BARRICADES, LIGHTS AND/OR BATTERIES WITHIN ONE HOUR OF NOTIFICATION BY THE CA TEAM OR AIRPORT PERSONNEL. CONTRACTOR SHALL PROVIDE THE NAME AND TELEPHONE NUMBER FOR AN ON-CALL REPRESENTATIVE 24 HOURS PER DAY,

SEVEN DAYS PER WEEK TO REPLACE BARRICADES, BATTERIES AND INOPERATIVE LIGHTS.

8. RED STEADY BURN LIGHTS SHALL BE PLACED AT THE ENDS AND AT CORNERS OF EACH LINE OF BARRICADES; ALL OTHER LIGHTS ON BARRICADES SHALL BE RED FLASHING..
9. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PROPER POSITIONING OF ALL BARRICADES.
10. SANDBAGS, WATER AND/OR ANCHORS MAY BE REQUIRED TO HOLD THE BARRICADES IN PLACE WHERE EXPOSED TO JET BLAST.
11. ALL COSTS ASSOCIATED WITH FURNISHING, PLACEMENT, MAINTENANCE AND SUBSEQUENT RELOCATION OF THE LOW PROFILE BARRICADES ARE INCIDENTAL TO ITEM C-105, AIRFIELD SAFETY AND TRAFFIC CONTROL.

X. DELINEATING WORK AREAS

1. SAFETY BARRICADES SHALL BE FURNISHED AND INSTALLED AT THE LOCATIONS AS INDICATED ON THE CONTRACT DOCUMENTS AND/OR DIRECTED BY THE CA TEAM. GENERALLY, SAFETY FENCE WILL BE USED FOR DELINEATING CONTRACTOR STAGING/STORAGE AREAS, PHASE LIMITS AND EXCAVATIONS, TRENCHES, DROPOFFS, ETC. THAT MAY POSE A HAZARD TO ONSITE SAFETY.
2. SAFETY BARRICADES SHALL BE AS SPECIFIED IN SECTION 70-08 OF THE GENERAL PROVISIONS.

Y. PROJECT SURVEY AND LAYOUT

1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING THEIR OWN PROJECT SURVEY AND CONSTRUCTION LAYOUT IN ACCORDANCE WITH SPECIFICATION SP-10. CONTRACTOR SHALL BE COMPENSATED FOR PROJECT SURVEY AND LAYOUT UNDER C-105 MOBILIZATION.

Z. PROTECTION

1. AT NO TIME SHALL PERSONNEL, VEHICLES OR EQUIPMENT BE LOCATED OR ENTER ANY OF THE FOLLOWING AREAS UNLESS AUTHORIZED BY AIRPORT OPERATION OR CA TEAM.
 - A. WITHIN 250 FEET PARALLEL TO AN ACTIVE RUNWAY CENTERLINE (TO BE INDICATED ON THE CSPP AND/OR SPCD).
 - B. NO STOCKPILES WILL BE PLACED WITHIN 400 FEET PARALLEL TO AN ACTIVE RUNWAY CENTERLINE NOR WILL EQUIPMENT BE LEFT UNATTENDED.
 - C. WITHIN 1,000 FEET OF THE END OF ACTIVE RUNWAYS (EACH END TO BE INDICATED IN THE CSPP AND/OR SPCD)
 - D. WITHIN 93 FEET PARALLEL TO AN ACTIVE TAXIWAY CENTERLINE OPERATING WITH GROUP III AIRCRAFT WITH OUT PROPER APPROVAL.
 - E. ACTIVE NAVAID CRITICAL AREAS.
 - F. ON THE MOVEMENT AREA AND/OR ASSOCIATED SAFETY AREAS DURING TIMES OF INCLEMENT WEATHER OR UNUSUAL EVENTS AS DETERMINED BY THE AIRPORT OPERATION. DURING SUCH TIMES ALL WORK IS TO BE SUSPENDED. ALL EQUIPMENT SHALL BE REMOVED TO APPROVED STAGING AREAS.
2. TRENCHES AND/OR EXCAVATIONS SHALL NOT BE ALLOWED IN THE FOLLOWING AREAS WITHOUT CLOSURE OR RESTRICTION OF THE ADJACENT MOVEMENT AREA:
 - A. WITHIN 250 FEET PARALLEL TO A RUNWAY CENTERLINE.
 - B. WITHIN 93 FEET PARALLEL TO A TAXIWAY CENTERLINE OPERATING WITH GROUP III AIRCRAFT
 - C. WITHIN 1,000 FEET OF THE END OF A RUNWAY.
 - D. ACTIVE NAVAID CRITICAL AREAS.
3. EQUIPMENT WITHIN 400 FEET OF AN ACTIVE RUNWAY SHALL BE REMOVED WHEN NOT IN USE.
4. SOIL EROSION MUST BE CONTROLLED TO MAINTAIN RSA/TSA STANDARDS. ANY HOLES OR MOUNDS, BUMPS, OR OTHER FEATURES WITH A GRADE CHANGE GREATER THAN 3 INCHES WITHIN THE RSA OR TSA SHALL BE REPAIRED PRIOR TO RUNWAY OR TAXIWAY OPENING.

AA. OTHER LIMITATIONS ON CONSTRUCTION

1. PROHIBITIONS
 - A. OPEN FLAME WELDING OR TORCH CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS ARE PROVIDED AND HAVE BEEN APPROVED FOR USE BY THE CA TEAM AND A BURN PERMIT HAS BEEN OBTAINED FROM THE ARFF. FLARE POTS SHALL NOT BE USED NEAR AIRCRAFT TURNING AREAS. ELECTRICAL BLASTING CAPS SHALL NOT BE USED WITHIN 1,000 FT OF THE AIRPORT PROPERTY.

BB. CONTRACTOR RESPONSIBILITIES

1. THE CONTRACTOR SHALL SUBMIT A SAFETY PLAN COMPLIANCE DOCUMENT (SPCD) TO THE AIRPORT OPERATOR DESCRIBING HOW IT WILL COMPLY WITH THE REQUIREMENTS OF THE CSPP. THE SPCD MUST INCLUDE A CERTIFICATION STATEMENT BY THE CONTRACTOR THAT INDICATES IT UNDERSTANDS THE OPERATIONAL SAFETY REQUIREMENTS OF THE CSPP AND THEY WILL NOT DEVIATE FROM THE APPROVED CSPP AND SPCD UNLESS WRITTEN APPROVAL IS GRANTED BY THE AIRPORT OPERATOR. ANY CONSTRUCTION PRACTICE PROPOSED BY THE CONTRACTOR THAT DOES NOT CONFORM TO THE CSPP AND SPCD MAY IMPACT THE AIRPORT'S OPERATIONAL SAFETY AND WILL REQUIRE A REVISION TO THE CSPP AND SPCD AND RE-COORDINATION WITH THE AIRPORT OPERATOR AND THE FAA IN ADVANCE.
2. THE CONTRACTOR SHALL HAVE AVAILABLE AT ALL TIMES COPIES OF THE CSPP AND SPCD FOR REFERENCE BY THE AIRPORT OPERATOR AND ITS REPRESENTATIVES, AND BY SUBCONTRACTORS AND CONTRACTOR EMPLOYEES.
3. THE CONTRACTOR SHALL ENSURE THAT CONSTRUCTION PERSONNEL ARE FAMILIAR WITH SAFETY PROCEDURES AND REGULATIONS ON THE THE AIRPORT. PROVIDE A POINT OF CONTACT WHO WILL COORDINATE AN IMMEDIATE RESPONSE TO CORRECT ANY CONSTRUCTION-RELATED ACTIVITY THAT MAY ADVERSELY AFFECT THE OPERATIONAL SAFETY OF THE AIRPORT.
4. THE CONTRACTOR SHALL IDENTIFY IN THE SPCD THE CONTRACTOR'S ON-SITE EMPLOYEES RESPONSIBLE FOR MONITORING COMPLIANCE WITH THE CSPP AND SPCD DURING CONSTRUCTION.
5. THE CONTRACTOR SHALL CONDUCT INSPECTIONS TO ENSURE CONSTRUCTION PERSONNEL COMPLY WITH THE CSPP AND SPCD AND THAT THERE ARE NO ALTERED CONSTRUCTION ACTIVITIES THAT COULD CREATE POTENTIAL SAFETY HAZARDS.
6. THE CONTRACTOR'S SAFETY PLAN COMPLIANCE DOCUMENT (SPCD) SHALL INCLUDE:
 - A STATEMENT BY THE CONSTRUCTION CONTRACTOR THAT HE/SHE HAS READ AND WILL ABIDE BY THE CSPP. IN ADDITION, THE SPCD MUST INCLUDE ALL SUPPLEMENTAL INFORMATION THAT COULD NOT BE INCLUDED IN THE CSPP PRIOR TO THE CONTRACT AWARD. THE CONTRACTOR STATEMENT SHOULD INCLUDE THE NAME OF THE CONTRACTOR, THE TITLE OF THE PROJECT CSPP, THE APPROVAL DATE OF THE CSPP, AND A REFERENCE TO ANY SUPPLEMENTAL INFORMATION (THAT IS, "I, NAME OF CONTRACTOR, HAVE READ THE TITLE OF PROJECT CSPP, APPROVED ON DATE, AND WILL ABIDE BY IT AS WRITTEN AND WITH THE FOLLOWING ADDITIONS AS NOTE:"). THE SUPPLEMENTAL INFORMATION IN THE SPCD SHOULD BE WRITTEN TO MATCH THE FORMAT OF THE CSPP INDICATING EACH SUBJECT BY SUPPLEMENTAL INFORMATION IS NECESSARY FOR ANY SPECIFIC SUBJECT, THE STATEMENT, "NO SUPPLEMENTAL INFORMATION," SHOULD BE WRITTEN AFTER THE CORRESPONDING SUBJECT TITLE. THE SPCD SHOULD NOT DUPLICATE INFORMATION IN THE CSPP.

AUGUSTA-RICHMOND COUNTY GENERAL NOTES:

AUGUSTA-RICHMOND COUNTY GENERAL NOTES": (1) THERE ARE NO KNOWN GRAVESITES OR CEMETERIES LOCATED ON THE PROPERTY. IF GRAVESITES OR CEMETERIES ARE DISCOVERED DURING CONSTRUCTION, INFORMATION MUST BE SUBMITTED TO THE AUGUSTA PLANNING & DEVELOPMENT DEPARTMENT IMMEDIATELY. (2) APPROVAL BY AUGUSTA, GEORGIA IS FOR THE IMPROVEMENTS SHOWN IN THE SITE PLAN, ANY VARIATION FROM THE APPROVED SITE PLAN MUST BE APPROVED BY THE CITY ENGINEER. (3) THE CONTRACTOR SHALL BE REQUIRED TO HAVE ON SITE A COPY OF THE GEORGIA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS AND CONSTRUCTION STANDARD DETAILS, CURRENT EDITION. (4) THE DEVELOPER SHALL BE RESPONSIBLE FOR THE INITIAL INSTALLATION OF SIGNS. (5) A SIGNED STATEMENT AS FOLLOWS: "I AM THE OWNER OF THE PROPERTY AFFECTED BY THIS SITE PLAN, PRIOR TO REQUESTING A CERTIFICATE OF OCCUPANCY, I WILL SUBMIT A NOTARIZED STATEMENT AS FOLLOWS: "I CERTIFY THAT THE SITE IMPROVEMENTS ARE COMPLETE AND IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS." THIS CERTIFICATION WILL BE BASED ON OBSERVATIONS OF AND SUPERVISION OF CONSTRUCTION BY MY REPRESENTATIVE OR ME. I UNDERSTAND THAT THE CERTIFICATE OF OCCUPANCY WILL NOT BE APPROVED UNTIL THIS CERTIFICATION HAS BEEN MADE."

Mead & Hunt
 Mead and Hunt, Inc.
 5955 Core Road, Suite 515
 North Charleston, SC 29406
 phone: 843-486-8330
 meadhunt.com



© Copyright 2022 Mead & Hunt, Inc.
 This document, or any portion thereof, shall not be duplicated, discussed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt shall not be responsible for any unauthorized use of, or alteration to these documents.

AUGUSTA REGIONAL AIRPORT
 SOUTHEAST DRAINAGE DITCH
 ENCLOSURE PH II
 1501 AVIATION WAY
 AUGUSTA GA, 30906

ISSUED
 ISSUED FOR BID

NOT FOR CONSTRUCTION

AIG:
 M&H NO.: 0119700-210463.01
 DATE: OCTOBER 22, 2024
 DESIGNED BY: NUH
 DRAWN BY: NUH
 CHECKED BY: EJS
 DO NOT SCALE DRAWINGS

SHEET CONTENTS
 CONSTRUCTION
 SAFETY & PHASING
 PLAN NOTES

SHEET NO.

G-072

WORK SCHEDULE PHASING

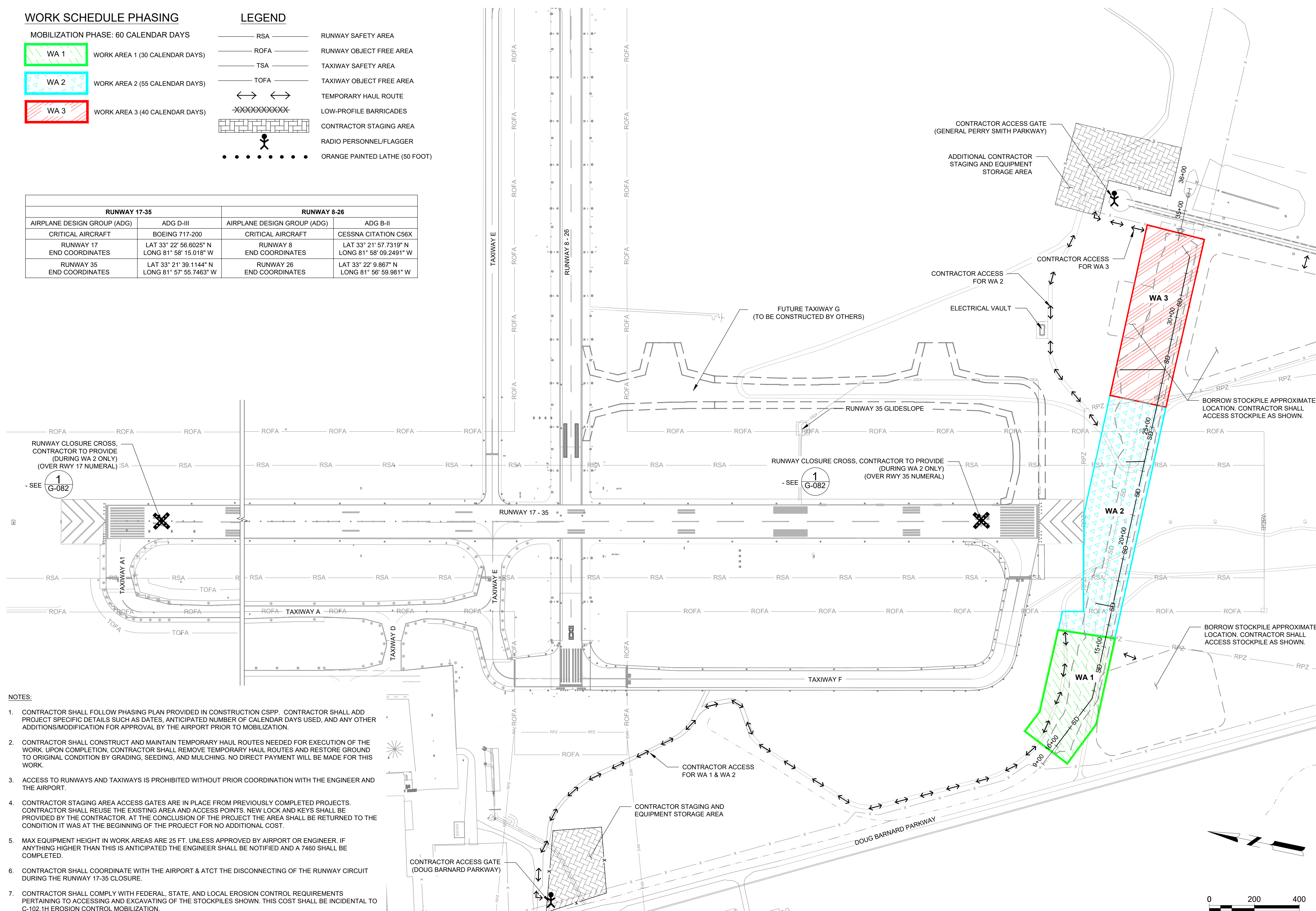
MOBILIZATION PHASE: 60 CALENDAR DAYS

- WA 1 WORK AREA 1 (30 CALENDAR DAYS)
- WA 2 WORK AREA 2 (55 CALENDAR DAYS)
- WA 3 WORK AREA 3 (40 CALENDAR DAYS)

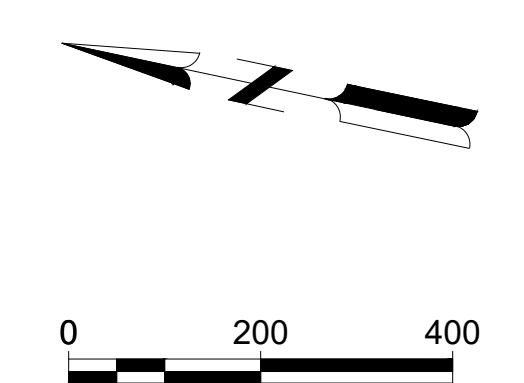
LEGEND

- RSA RUNWAY SAFETY AREA
- ROFA RUNWAY OBJECT FREE AREA
- TSA TAXIWAY SAFETY AREA
- TOFA TAXIWAY OBJECT FREE AREA
- TEMPORARY HAUL ROUTE
- LOW-PROFILE BARRICADES
- CONTRACTOR STAGING AREA
- RADIO PERSONNEL/FLAGGER
- ORANGE PAINTED LATHE (50 FOOT)

RUNWAY 17-35		RUNWAY 8-26	
AIRPLANE DESIGN GROUP (ADG)	ADG D-III	AIRPLANE DESIGN GROUP (ADG)	ADG B-II
CRITICAL AIRCRAFT	BOEING 717-200	CRITICAL AIRCRAFT	CESSNA CITATION C56X
RUNWAY 17 END COORDINATES	LAT 33° 22' 56.6025" N LONG 81° 58' 15.018" W	RUNWAY 8 END COORDINATES	LAT 33° 21' 57.7319" N LONG 81° 58' 09.2491" W
RUNWAY 35 END COORDINATES	LAT 33° 21' 39.1144" N LONG 81° 57' 55.7463" W	RUNWAY 26 END COORDINATES	LAT 33° 22' 9.867" N LONG 81° 56' 59.981" W



- NOTES:**
- CONTRACTOR SHALL FOLLOW PHASING PLAN PROVIDED IN CONSTRUCTION CSPP. CONTRACTOR SHALL ADD PROJECT SPECIFIC DETAILS SUCH AS DATES, ANTICIPATED NUMBER OF CALENDAR DAYS USED, AND ANY OTHER ADDITIONS/MODIFICATION FOR APPROVAL BY THE AIRPORT PRIOR TO MOBILIZATION.
 - CONTRACTOR SHALL CONSTRUCT AND MAINTAIN TEMPORARY HAUL ROUTES NEEDED FOR EXECUTION OF THE WORK. UPON COMPLETION, CONTRACTOR SHALL REMOVE TEMPORARY HAUL ROUTES AND RESTORE GROUND TO ORIGINAL CONDITION BY GRADING, SEEDING, AND MULCHING. NO DIRECT PAYMENT WILL BE MADE FOR THIS WORK.
 - ACCESS TO RUNWAYS AND TAXIWAYS IS PROHIBITED WITHOUT PRIOR COORDINATION WITH THE ENGINEER AND THE AIRPORT.
 - CONTRACTOR STAGING AREA ACCESS GATES ARE IN PLACE FROM PREVIOUSLY COMPLETED PROJECTS. CONTRACTOR SHALL REUSE THE EXISTING AREA AND ACCESS POINTS. NEW LOCK AND KEYS SHALL BE PROVIDED BY THE CONTRACTOR. AT THE CONCLUSION OF THE PROJECT THE AREA SHALL BE RETURNED TO THE CONDITION IT WAS AT THE BEGINNING OF THE PROJECT FOR NO ADDITIONAL COST.
 - MAX EQUIPMENT HEIGHT IN WORK AREAS ARE 25 FT. UNLESS APPROVED BY AIRPORT OR ENGINEER. IF ANYTHING HIGHER THAN THIS IS ANTICIPATED THE ENGINEER SHALL BE NOTIFIED AND A 7480 SHALL BE COMPLETED.
 - CONTRACTOR SHALL COORDINATE WITH THE AIRPORT & ATCT THE DISCONNECTING OF THE RUNWAY CIRCUIT DURING THE RUNWAY 17-35 CLOSURE.
 - CONTRACTOR SHALL COMPLY WITH FEDERAL, STATE, AND LOCAL EROSION CONTROL REQUIREMENTS PERTAINING TO ACCESSING AND EXCAVATING OF THE STOCKPILES SHOWN. THIS COST SHALL BE INCIDENTAL TO C-102.1H EROSION CONTROL MOBILIZATION.



Mead & Hunt
 Mead and Hunt, Inc.
 5955 Core Road, Suite 515
 North Charleston, SC 29406
 phone: 843-486-8330
 meadhunt.com



© Copyright 2022 Mead & Hunt, Inc. This document, or any portion thereof, shall not be duplicated, disclosed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt shall not be responsible for any unauthorized use of, or alteration to these documents.

**AUGUSTA REGIONAL AIRPORT
 SOUTHEAST DRAINAGE DITCH
 ENCLOSURE PH II
 1501 AVIATION WAY
 AUGUSTA GA, 30906**

ISSUED FOR BID

NOT FOR CONSTRUCTION

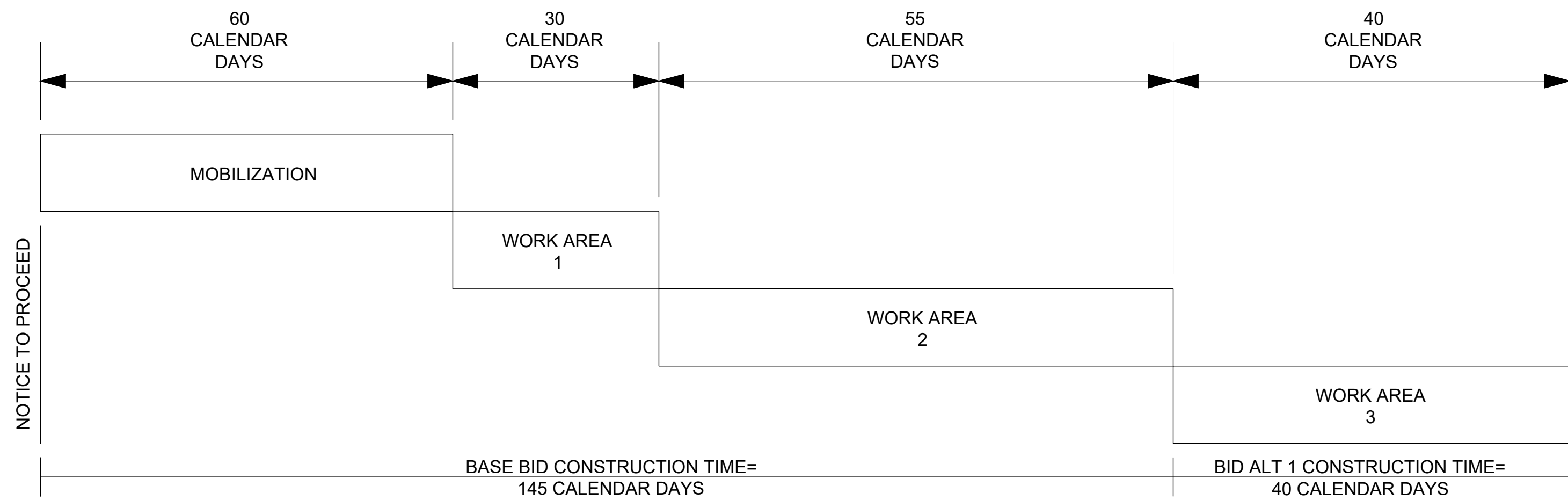
AGS:
 M&H NO.: 0119700-210463.01
 DATE: OCTOBER 22, 2024
 DESIGNED BY: NJH
 DRAWN BY: NJH
 CHECKED BY: EJS
 DO NOT SCALE DRAWINGS

SHEET CONTENTS
 CONSTRUCTION
 SAFETY & PHASING
 PLAN OVERALL

SHEET NO.

G-081

X:\0119700\01\0463\01\TECH\DRAWINGS\G-081 CONSTRUCTION SAFETY & PHASING PLAN OVERALL.DWG 10/22/2024 9:11:01 AM



TOTAL CONSTRUCTION TIME=
185 CALENDAR DAYS

CONSTRUCTION PHASING DIAGRAM
N.T.S.

MOBILIZATION PHASE (60 CALENDAR DAYS)

THE MOBILIZATION PHASE SHALL BEGIN IMMEDIATELY AFTER THE MOBILIZATION NOTICE TO PROCEED IS ISSUED BY THE AIRPORT. DURING THIS PHASE OF THE PROJECT, NO WORK SHALL BE CONDUCTED THAT RESTRICTS AIRPORT OPERATIONS UNLESS AUTHORIZED BY THE AIRPORT. NOTICE TO PROCEED WITH SUBSEQUENT SCHEDULES MAY BE GIVEN DURING MOBILIZATION AT THE AIRPORTS DISCRETION.

MOBILIZATION WORK SHALL INCLUDE, BUT IS NOT LIMITED TO THE FOLLOWING:

1. SUBMITTALS.
 - A. PROCESSING OF REQUIRED MATERIALS/EQUIPMENT SUBMITTALS AND THE CONTRACTOR'S PROPOSED WORK SCHEDULE, INCLUDING REQUESTED PAVEMENT CLOSURE DATES.
 - B. ALL PRE-QUALIFICATION TESTING, REVIEW, AND APPROVALS.
 - C. MATERIAL DELIVERY SCHEDULE, INCLUDING MATERIAL DELIVERY DATE TO JOB SITE OR TO THE CONTRACTOR'S YARD.
2. DURING MOBILIZATION, THE CONTRACTOR SHALL BE ALLOWED TO PERFORM LAYOUT, STAKING, AND OTHER PREP WORK AS APPROVED BY THE AIRPORT.
3. IT IS THE AIRPORT'S INTENT THAT ALL PRELIMINARY WORK BE COMPLETED DURING THE MOBILIZATION PHASE TO ENSURE CONSTRUCTION CAN BE PURSUED DILIGENTLY AND WITHOUT UNNECESSARY DELAY. (THE AIRPORT RESERVES THE RIGHT TO WAIVE CERTAIN ELEMENTS OF MOBILIZATION AND ISSUE A NOTICE TO PROCEED WITH CONSTRUCTION AT ITS DISCRETION OR UPON THE CONTRACTOR'S REQUEST.) SCHEDULE DATE SHALL NOT BE CHANGED, ONCE ESTABLISHED, UNLESS COORDINATION WITH THE CA TEAM AND FINAL APPROVAL OF THE AIRPORT.

GENERAL NOTES:

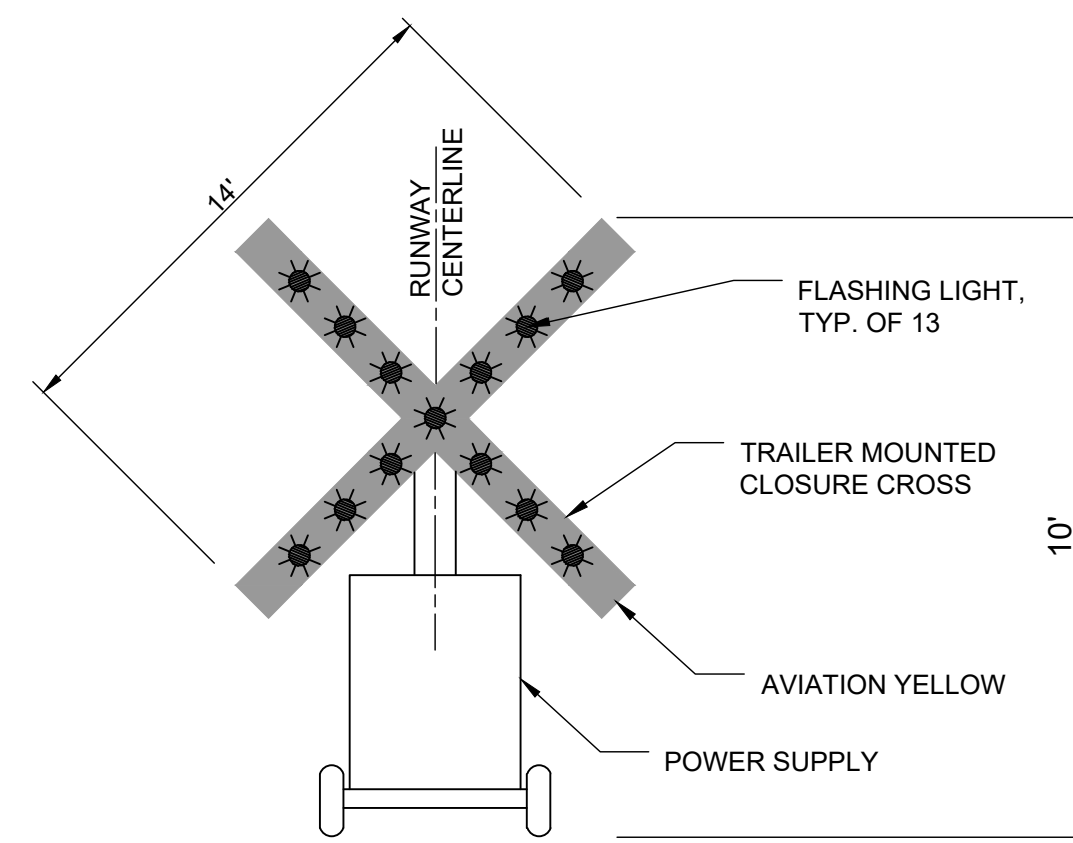
1. NIGHT WORK IS GENERALLY DEFINED AS WORK DONE FROM 11:00 PM TO 7:00 AM. IN WORK AREAS SUBJECT TO COMMERCIAL FLIGHT RESTRICTIONS, NIGHT WORK MUST BE COMPLETED THIRTY (30) MINUTES PRIOR TO THE FIRST DEPARTING COMMERCIAL FLIGHT.
2. HOURS OF AIR TRAFFIC CONTROL TOWER OPERATIONS ARE FROM 6:45AM TO 11:00PM LOCAL TIME.
3. SEE SPECIAL PROVISIONS FOR DETAILS ON CONSTRUCTION LIMITATIONS. CLOSURE OF EXISTING AIRFIELD PAVEMENTS WILL BE ALLOWED ONLY ONCE THE FOLLOWING CONDITIONS ARE MET:
 - A. 48-HOUR ADVANCE NOTIFICATION, VERIFYING THAT A PREVIOUSLY APPROVED CLOSURE PERIOD WILL BE AS SCHEDULED.
 - B. A CLOSURE SCHEDULE FOR EACH AREA OF CONSTRUCTION HAS BEEN SUBMITTED TO THE ENGINEER FOR REVIEW AND HAS BEEN APPROVED. THESE SCHEDULES SHALL DETAIL TEMPORARY ACCESS ROUTES (IF APPLICABLE), SAFETY MEASURES, AND TIME LIMITS OF CLOSURE FOR EACH AREA. FAILURE TO OPEN AIRFIELD PAVEMENTS WITHIN THE APPROVED TIME LIMITS MAY RESULT IN LIQUIDATED DAMAGES.
4. THE AUGUSTA AIRPORT EXPERIENCES HIGH TRAFFIC VOLUMES DURING THE MASTERS WEEK THAT OCCURS THE FIRST OR SECOND WEEK OF APRIL EVERY YEAR. THE BIDDER IS ADVISED THAT A TEMPORARY SUSPENSION OF WORK WILL OCCUR DURING THIS PERIOD OF TIME. (APRIL 5TH THROUGH APRIL 15TH, 2025)
6. ANY ADDITIONAL LOW-PROFILE BARRICADES (INCLUDING SUPPLEMENTARY LIGHTS) NEEDED FOR PROPER EXECUTION OF THE WORK SHALL BE PROVIDED BY THE CONTRACTOR.
7. CONTRACTOR SHALL MAINTAIN ALL LIGHTS IN WORKING ORDER FOR THE DURATION OF THE PROJECT.

AUGUSTA RICHMOND COUNTY GENERAL NOTES:

1. ALL DRAINAGE EASEMENTS AND DISTURBED AREAS MUST BE GRASSED AND/OR RIP-RAPPED AS REQUIRED TO CONTROL EROSION.
2. ALL CONSTRUCTION WITHIN AUGUSTA RIGHTS-OF WAY SHALL CONFORM TO AUGUSTA, GEORGIA STANDARDS AND SPECIFICATIONS.
3. ALL SILT BARRIERS MUST BE PLACED IMMEDIATELY FOLLOWING CLEARING. NO GRADING SHALL BE DONE UNTIL SILT BARRIER INSTALLATION IS COMPLETED.
4. CONTRACTOR SHALL CONTACT THE INSPECTION DIVISION OF THE PUBLIC WORKS DEPARTMENT AT LEAST 48 HOURS PRIOR TO STARTING WORK ON THE PROJECT. THE PHONE NUMBER FOR THIS OFFICE IS (706) 821-1706.
5. THE COST OF INSPECTION BY THE CITY OF AUGUSTA-RICHMOND COUNTY'S DEPARTMENT OF PUBLIC WORKS AND ENGINEERING, BEFORE OR AFTER REGULAR WORKING HOURS, ON SATURDAYS, SUNDAYS, OR LEGAL HOLIDAYS, SHALL BE PAID FOR BY THE INDIVIDUAL REQUESTING THE INSPECTION AT A RATE OF 1 1/2 TIMES THE REGULAR SALARY PER HOUR OF THE INSPECTOR PLUS 7.65% FROM THE EMPLOYER'S FICA/MEDICARE MATCH. APPROVAL FOR THE INSPECTION OUTSIDE OF NORMAL WORKING HOURS SHALL BE OBTAINED FROM THE CITY ENGINEER 48-HOURS IN ADVANCE. PRIOR TO THE COMMENCEMENT OF WORK REQUIRING INSPECTION OUTSIDE OF NORMAL WORKING HOURS, THE INDIVIDUAL REQUESTING THE INSPECTION SHALL SIGN A FORM WHICH IS FURNISHED BY THE DEPARTMENT OF PUBLIC WORK AND ENGINEERING AGREEING TO PAY THE OVERTIME. THE INDIVIDUAL REQUESTING THE INSPECTION SHALL SIGN A FORM WHICH IS FURNISHED BY THE DEPARTMENT OF PUBLIC WORK AND ENGINEERING AGREEING TO PAY THE OVERTIME. THE INDIVIDUAL REQUESTING THE INSPECTION WILL BE BILLED BY THE DEPARTMENT OF PUBLIC WORKS AND ENGINEERING FOR PAYMENT.
6. A PRECONSTRUCTION CONFERENCE SHALL BE HELD WITH THE CITY ENGINEER OR HIS DESIGNATED REPRESENTATIVE PRIOR TO BEGINNING CONSTRUCTION. THIS MEETING SHALL BE SCHEDULED WITH THE DEPARTMENT OF PUBLIC WORKS AT THE TIME THE NOTIFICATION OF WORK COMMENCEMENT IS GIVEN.

REQUIREMENTS FOR AIRPORT SECURITY, SAFETY AND CONTRACTOR OPERATIONS:

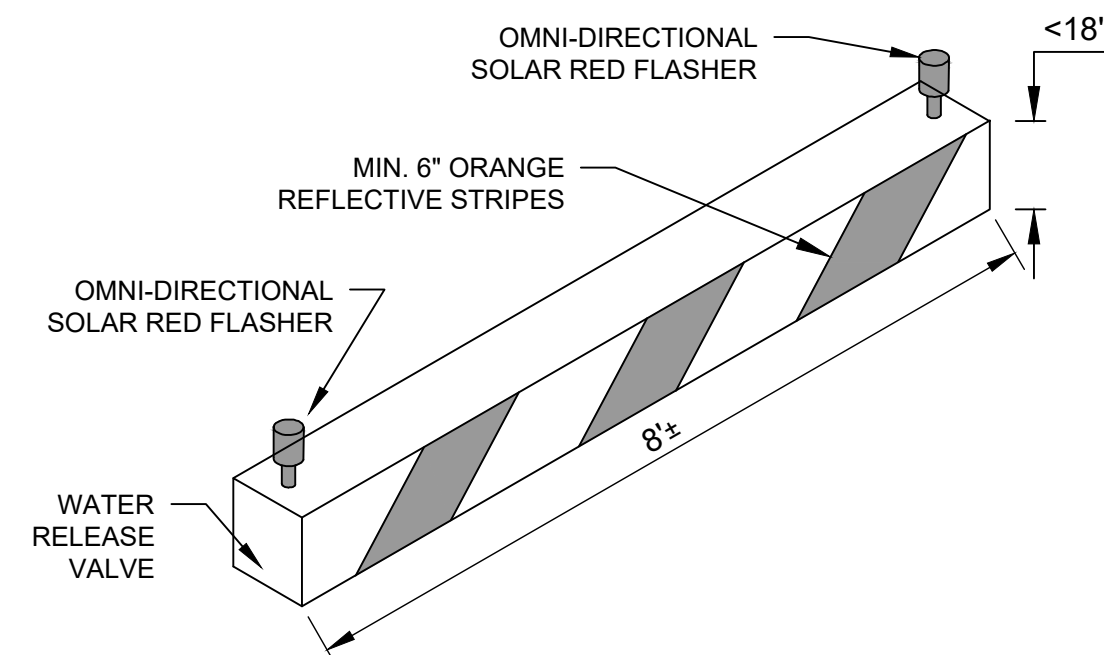
1. ALL CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE SPECIFICATION GENERAL PROVISIONS, SAFETY, AIRPORT SECURITY, AND OPERATING REGULATIONS AND THE CONSTRUCTION SAFETY AND PHASING PLAN (CSPP).
2. RUNWAY 17-35 AND RUNWAY 8-26, ASSOCIATED TAXIWAYS, AND THEIR SAFETY AREAS SHALL REMAIN OPERATIONAL AT ALL TIMES UNLESS APPROVED BY THE AIRPORT.
3. CONTRACTOR SHALL NOT ENTER ANY ACTIVE SAFETY AREAS OR OBJECT FREE AREAS WITHOUT AUTHORIZATION FROM THE AIRPORT.
4. A RUNWAY SAFETY AREA (RSA) AND OBSTACLE FREE ZONE (OFZ) EXISTS AROUND EACH RUNWAY WHICH LIMITS CONSTRUCTION ACTIVITIES ADJACENT TO OPERATIONAL RUNWAYS. CONSTRUCTION PERSONNEL AND EQUIPMENT SHALL NOT CROSS RSAs OR OFZs WITHOUT AIRPORT AUTHORIZATION.
5. THE RUNWAY 17-35 SAFETY AREA (RSA) IS 250-FEET EACH SIDE OF THE RUNWAY CENTERLINE AND 1000 FEET BEYOND THE RUNWAY ENDS. THE RUNWAY 8-26 SAFETY AREA (RSA) IS 75-FEET EACH SIDE OF THE RUNWAY CENTERLINE. IT SHALL REMAIN CLEAR OF PERSONNEL, MATERIAL AND EQUIPMENT AT ALL TIMES.
6. THE RUNWAY 17-35 OBSTACLE FREE ZONE (OFZ) IS 400-FEET EACH SIDE OF CENTERLINE AND 1000-FEET BEYOND THE RUNWAY ENDS. THE RUNWAY 8-26 OBSTACLE FREE ZONE (OFZ) IS 125-FEET EACH SIDE OF CENTERLINE AND 200-FEET BEYOND THE RUNWAY ENDS. IT SHALL REMAIN CLEAR OF PERSONNEL, MATERIALS, AND EQUIPMENT AT ALL TIMES.
7. IN TRANSITIONS FROM PAVED TO UNPAVED AREAS, A TEMPORARY 3 INCH MAXIMUM VERTICAL DROP IS ALLOWED.
8. DAILY SAFETY INSPECTIONS SHALL BE PERFORMED AS REQUIRED IN THE CSPP.



NOTES:

1. TWO (2) LIGHTED, GENERATOR POWERED RUNWAY CLOSURE CROSSES SHALL BE SUPPLIED BY THE CONTRACTOR. THE RUNWAY CLOSURE CROSSES SHALL BE INSTALLED AND REMOVED BY THE CONTRACTOR DURING CONSTRUCTION PER THE SCHEDULE APPROVED BY THE ENGINEER. THE EQUIPMENT SHALL BE FUELED, OILED AND MAINTAINED BY THE CONTRACTOR THROUGHOUT THE PROJECT.

1 PORTABLE LIGHTED RUNWAY CLOSURE CROSS
NOT TO SCALE



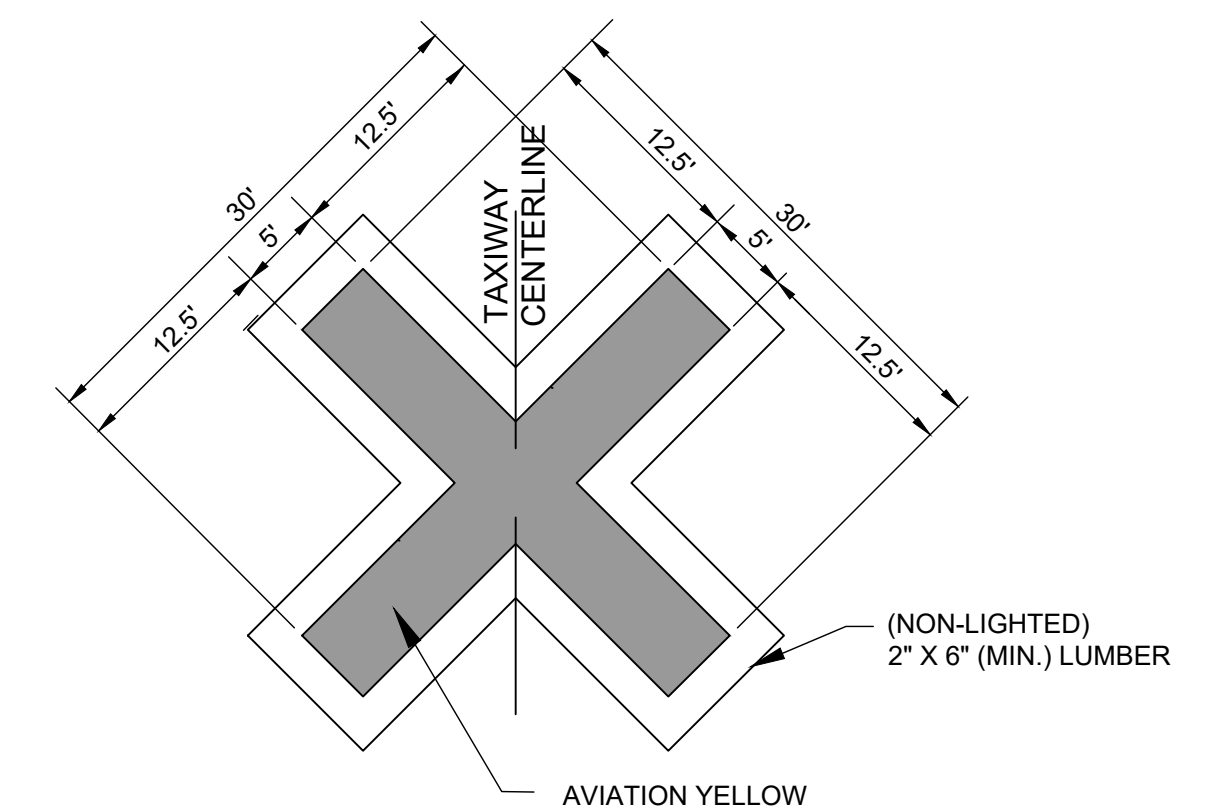
NOTES:

1. MAINTENANCE OF LOW-PROFILE BARRICADES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR THE DURATION OF THE PROJECT.
2. GAPS IN BARRICADES SHALL NOT EXCEED 5-FEET.

A LOW PROFILE BARRICADE DETAIL
NOT TO SCALE

CONTRACTOR NOTES:

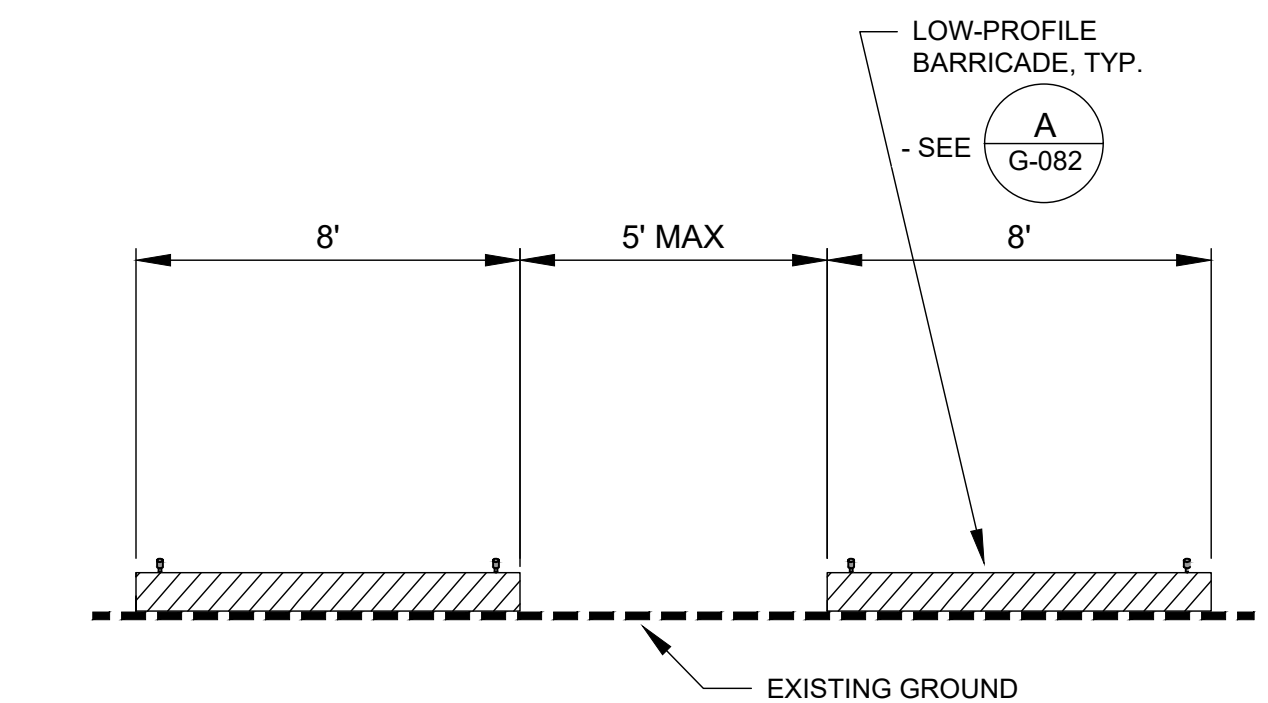
1. THE CONTRACTOR SHALL DESIGNATE A PERSON ON CALL 24 HOURS A DAY, 7 DAYS A WEEK, FOR EMERGENCY MAINTENANCE OF AIRPORT HAZARD LIGHTING AND BARRICADES. THIS CONTACT INFORMATION MUST BE ON FILE WITH THE AIRPORT OPERATOR.
2. ALL HAZARD LIGHTING, BARRICADES AND EQUIPMENT SHALL BE CHECKED A MINIMUM OF ONCE PER DAY TO ENSURE PROPER OPERATION, PREFERABLY AT DUSK.
3. DUE TO ENDANGERED SPECIES IN THE REGION, TREE CLEARING MAY BE LIMITED TO THE FALL.



NOTES:

1. TAXIWAY CLOSURE MARKERS SHALL BE PLACED AS DESIGNATED ON THE CONSTRUCTION SAFETY AND PHASING PLANS.
2. TAXIWAY CLOSURE MARKERS WILL BE SUPPLIED AND MAINTAINED BY THE CONTRACTOR.
3. CLOSURE MARKERS SHALL BE ADEQUATELY SECURED SO AS TO NOT BE AFFECTED BY WIND OR AIRCRAFT MOVEMENT.
4. CONTRACTOR IS RESPONSIBLE FOR PLACING AND MAINTAINING TAXIWAY CLOSURE MARKERS FOR THE DURATION OF THE PROJECT AND REMOVING THE CROSSES UPON COMPLETION OF THE PROJECT OR OPENING OF THE ASSOCIATED TAXIWAY.

2 PORTABLE VINYL CLOSED TAXIWAY MARKER
NOT TO SCALE



B LOW PROFILE BARRICADE LAYOUT DETAIL
NOT TO SCALE

AUGUSTA REGIONAL AIRPORT SOUTHEAST DRAINAGE DITCH ENCLOSURE PH II 1501 AVIATION WAY AUGUSTA GA, 30906

ISSUED FOR BID

NOT FOR CONSTRUCTION

AGS:
M&H NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: NJH
DRAWN BY: NJH
CHECKED BY: EJS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
CONSTRUCTION SAFETY & PHASING PLAN - WA 2

SHEET NO.

G-084

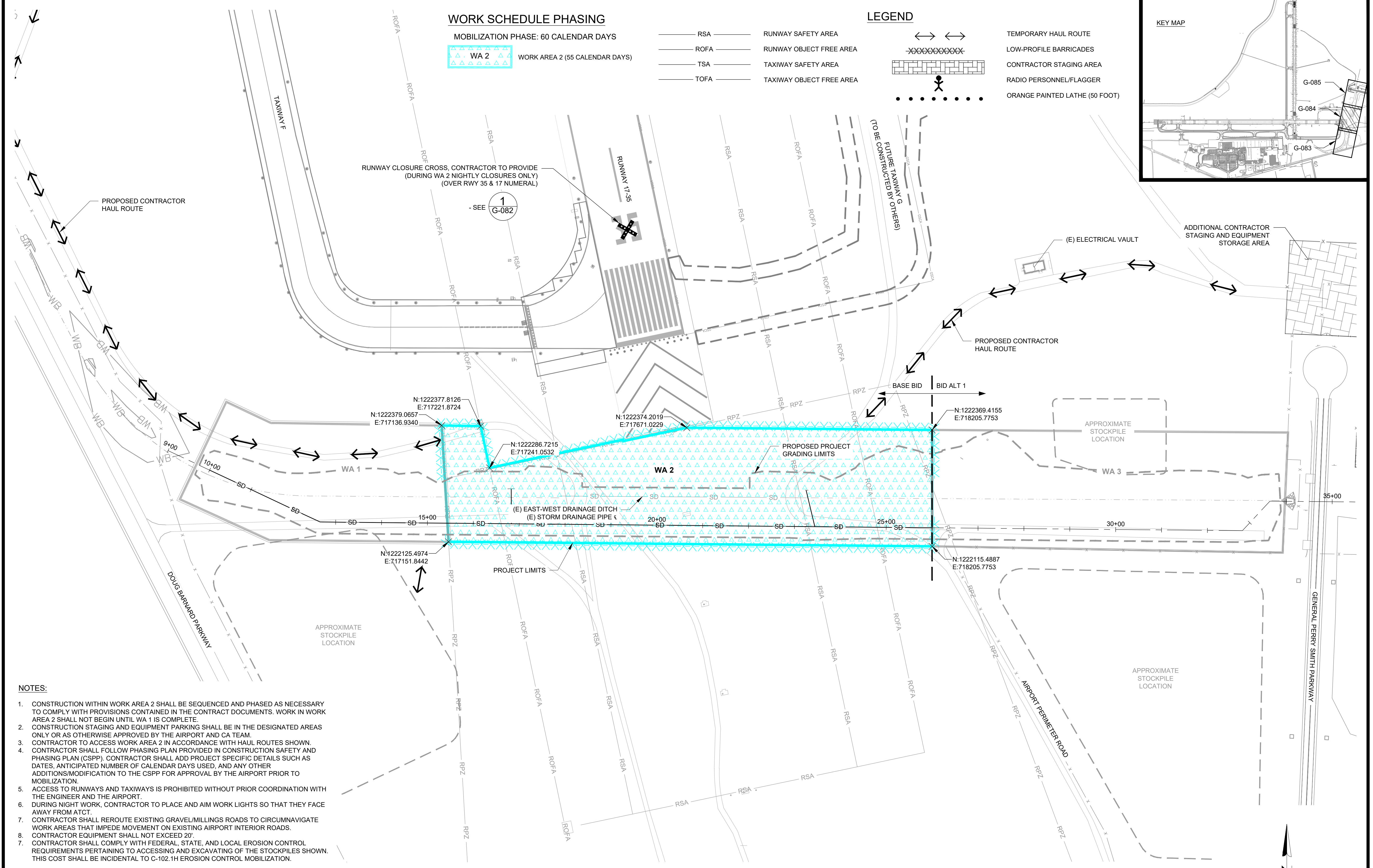
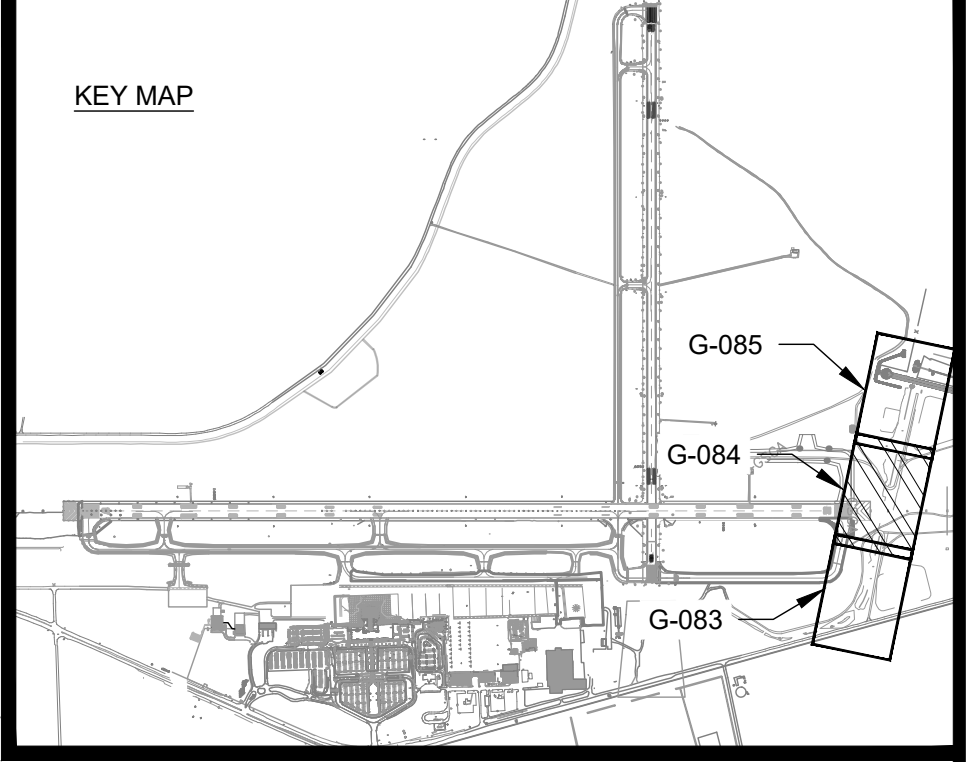
WORK SCHEDULE PHASING

MOBILIZATION PHASE: 60 CALENDAR DAYS
WA 2 WORK AREA 2 (55 CALENDAR DAYS)

- RSA — RUNWAY SAFETY AREA
- ROFA — RUNWAY OBJECT FREE AREA
- TSA — TAXIWAY SAFETY AREA
- TOFA — TAXIWAY OBJECT FREE AREA

LEGEND

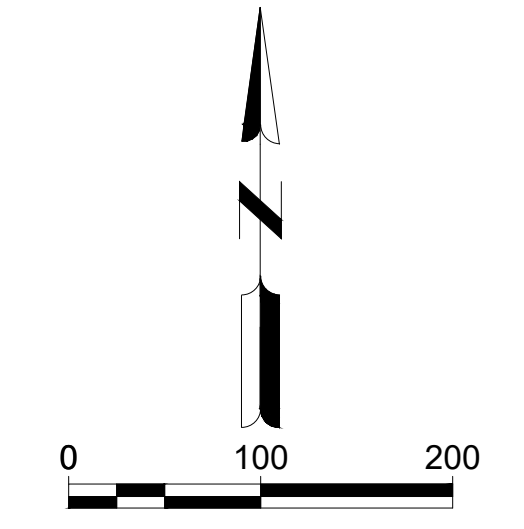
- ↔ ↔ TEMPORARY HAUL ROUTE
- XXXXXXXXXX LOW-PROFILE BARRICADES
- [] CONTRACTOR STAGING AREA
- ⚡ RADIO PERSONNEL/FLAGGER
- ● ● ● ORANGE PAINTED LATHE (50 FOOT)



NOTES:

- CONSTRUCTION WITHIN WORK AREA 2 SHALL BE SEQUENCED AND PHASED AS NECESSARY TO COMPLY WITH PROVISIONS CONTAINED IN THE CONTRACT DOCUMENTS. WORK IN WORK AREA 2 SHALL NOT BEGIN UNTIL WA 1 IS COMPLETE.
- CONSTRUCTION STAGING AND EQUIPMENT PARKING SHALL BE IN THE DESIGNATED AREAS ONLY OR AS OTHERWISE APPROVED BY THE AIRPORT AND CA TEAM.
- CONTRACTOR TO ACCESS WORK AREA 2 IN ACCORDANCE WITH HAUL ROUTES SHOWN.
- CONTRACTOR SHALL FOLLOW PHASING PLAN PROVIDED IN CONSTRUCTION SAFETY AND PHASING PLAN (CSPP). CONTRACTOR SHALL ADD PROJECT SPECIFIC DETAILS SUCH AS DATES, ANTICIPATED NUMBER OF CALENDAR DAYS USED, AND ANY OTHER ADDITIONS/MODIFICATION TO THE CSPP FOR APPROVAL BY THE AIRPORT PRIOR TO MOBILIZATION.
- ACCESS TO RUNWAYS AND TAXIWAYS IS PROHIBITED WITHOUT PRIOR COORDINATION WITH THE ENGINEER AND THE AIRPORT.
- DURING NIGHT WORK, CONTRACTOR TO PLACE AND AIM WORK LIGHTS SO THAT THEY FACE AWAY FROM ATCT.
- CONTRACTOR SHALL REROUTE EXISTING GRAVEL/MILLINGS ROADS TO CIRCUMNAVIGATE WORK AREAS THAT IMPEDE MOVEMENT ON EXISTING AIRPORT INTERIOR ROADS.
- CONTRACTOR EQUIPMENT SHALL NOT EXCEED 20'.
- CONTRACTOR SHALL COMPLY WITH FEDERAL, STATE, AND LOCAL EROSION CONTROL REQUIREMENTS PERTAINING TO ACCESSING AND EXCAVATING OF THE STOCKPILES SHOWN. THIS COST SHALL BE INCIDENTAL TO C-102.1H EROSION CONTROL MOBILIZATION.

WORK AREA	GENERAL WORK SCOPE	AFFECTED AOA	WORK HOURS	CALENDAR DAYS	SAFETY AND SECURITY
WA 2	THE DEMOLITION OF APPROXIMATELY 542 LF OF EXISTING CORRUGATED METAL PIPE AND CONSTRUCTION OF APPROXIMATELY 160 LF OF 30", 145 LF OF 72", AND 920 LF OF 84" REINFORCED CONCRETE STORM DRAINAGE PIPE.	RUNWAY 17-35 RSA & ROFA	11:00PM TO 7:00AM	55	<ol style="list-style-type: none"> THE CONTRACTOR SHALL INSTALL LOW-PROFILE BARRICADES AS SHOWN. THE CONTRACTOR SHALL NOTIFY THE AIRPORT AT LEAST 5 DAYS IN ADVANCE OF WORK FOR NOTAM OF CONSTRUCTION ACTIVITY TO BE POSTED. THE CONTRACTOR WILL BE RESPONSIBLE TO PROVIDE ESCORTING OF ALL SUBCONTRACTORS FOR WORK DURING THIS PHASE. ESCORTS MUST PASS THE AIRFIELD DRIVERS TRAINING CLASS AND MUST HAVE AN ACTIVE AIRPORT BADGE WITH ESCORTING PRIVILEGES.



**EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
STAND ALONE CONSTRUCTION PROJECTS**

Project Name: AGS Ditch Enclosure Phase II **Address:** 1501 Aviation Way, Augusta, GA
City/County: Augusta/Richmond **Date on Plans:** July 2023

Name & email of person filling out checklist: Hannah Allen, hallen@aulickengineering.com

Plan **Included**
Plan # **Y/N**
CE 0.01 **Y**

- TO BE SHOWN ON ES&PC PLAN**
- 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)
 - 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)
 - Limits of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the GAEPD District Office. If GAEPD approves the request to disturb 50 acres or more at any one time, the Plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist and the GAEPD approval letter. * (A copy of the written approval by GAEPD must be attached to the plan for the Plan to be reviewed.)
 - The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.
 - Provide the name, address, email address, and phone number of primary permittee.
 - Note total and disturbed acreages of the project or phase under construction.
 - Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.
 - Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
 - Description of the nature of construction activity and existing site conditions.
 - Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
 - Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
 - 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 19 of the permit.
 - 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 19 of the permit.
 - Clearly note the statement that "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." in accordance with Part IV.A.5 page 25 of the permit. *
 - 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 westered 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."
 - Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
 - 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." *
 - Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit" *
 - 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."
 - 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."
 - Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
 - Any construction activity which discharges storm water into an 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 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *
 - If a TMDL Implementation Plan for sediment has been finalized for the 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. *
 - BMPs for concrete washdown of trucks, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited. *
 - Provide BMPs for the remediation of all petroleum spills and leaks.
 - 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. *

- | CE 0.03 | Y | 27 | Description of practices to provide cover for building materials and building products on site. * | | | | | | |
|---|---|---------------------------------|--|-----------|--------------|-----------------------|--------------------------------|---|---------------------------------|
| CE 0.03 | Y | 28 | Description of the practices that will be used to reduce the pollutants in storm water discharges. * | | | | | | |
| CE 0.03 | 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, temporary and final stabilization). | | | | | | |
| CE 0.03 | Y | 30 | Provide complete requirements of Inspections and record keeping by the primary permittee. * | | | | | | |
| CE 0.03 | Y | 31 | Provide complete requirements of Sampling Frequency and Reporting of sampling results. * | | | | | | |
| CE 0.03 | Y | 32 | Provide complete details for Retention of Records as per Part IV.F. of the permit. * | | | | | | |
| CE 0.04 | Y | 33 | Description of analytical methods to be used to collect and analyze the samples from each location. * | | | | | | |
| CE 0.04 | Y | 34 | Appendix B rationale for NTU values at all outfall sampling points where applicable. * | | | | | | |
| CE 0.04 | Y | 35 | Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged. * | | | | | | |
| CE 0.04 | 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 perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single phase. * | | | | | | |
| PLANS | Y | 37 | Graphic scale and North arrow. | | | | | | |
| PLANS | Y | 38 | Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following: | | | | | | |
| <table border="1"> <thead> <tr><th>Map Scale</th><th>Ground Slope</th><th>Contour Intervals, ft</th></tr> </thead> <tbody> <tr><td>1 inch = 100ft or larger scale</td><td>Flat 0 - 2%
Rolling 2 - 8%
Steep 8% +</td><td>0.5 or 1
1 or 2
2.5 or 10</td></tr> </tbody> </table> | | | | Map Scale | Ground Slope | Contour Intervals, ft | 1 inch = 100ft or larger scale | Flat 0 - 2%
Rolling 2 - 8%
Steep 8% + | 0.5 or 1
1 or 2
2.5 or 10 |
| Map Scale | Ground Slope | Contour Intervals, ft | | | | | | | |
| 1 inch = 100ft or larger scale | Flat 0 - 2%
Rolling 2 - 8%
Steep 8% + | 0.5 or 1
1 or 2
2.5 or 10 | | | | | | | |
| CE 0.04 | Y | 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). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.georgia.gov. | | | | | | |
| CE 0.04 | Y | 40 | Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. * | | | | | | |
| CE 0.04 | Y | 41 | Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact. | | | | | | |
| CE 0.04 | Y | 42 | Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site. | | | | | | |
| CE 0.04 | Y | 43 | Delineation and acreage of contributing drainage basins on the project site. | | | | | | |
| CE 0.05 | Y | 44 | Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions. * | | | | | | |
| MAPS | Y | 45 | An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed. | | | | | | |
| CE 0.05 | Y | 46 | Storm drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points. | | | | | | |
| CE 0.05 | Y | 47 | Soil series for the project site and their delineation. | | | | | | |
| CE 0.05 | Y | 48 | The limits of disturbance for each phase of construction. | | | | | | |
| CE 0.05 | 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 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual included for structural BMPs and all calculations used by the storage design professional to obtain the required sediment 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. | | | | | | |
| PLANS | 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. | | | | | | |
| DETAILS | 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. | | | | | | |
| DETAILS | 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 the year that seeding will take place and for the appropriate geographic region of Georgia. | | | | | | |
- * 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, 2023

NOTES: C-021 - C-025
PLANS: C-026 - C-035
DETAILS: C-036 - C-039
DAMS: C-040 - C-041



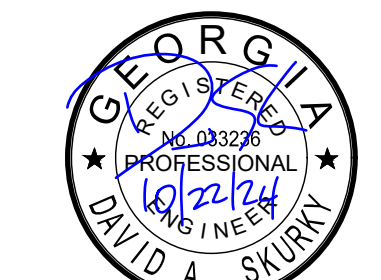
Mead and Hunt, Inc.
5955 Core Road, Suite 515
North Charleston, SC 29406
phone: 843-486-8330
meadhunt.com



© Copyright 2022 Mead & Hunt, Inc. This document, or any portion thereof, shall not be duplicated, disclosed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt shall not be responsible for any unauthorized use of, or alteration to these documents.

**AUGUSTA REGIONAL AIRPORT
SOUTHEAST DRAINAGE DITCH
ENCLOSURE PH II
1501 AVIATION WAY
AUGUSTA, GA 30906-9620**

ISSUED
ISSUED FOR BID



GSWCC LEVEL II DESIGN
PROFESSIONAL
CERTIFICATION # 0000045842
EXP. 10/01/2025

AGS:
M&H NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: CMJ
DRAWN BY: HCA
CHECKED BY: AKM
DO NOT SCALE DRAWINGS

SHEET CONTENTS
EROSION, SEDIMENT &
POLLUTION CONTROL
PLAN - CHECKLIST

SHEET NO.

C-021

ITEM 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. SEE SHEET C-021.

ITEM 2:



Signature of David Skurky, P.E. and date 10/22/24

ITEM 3:

THE LIMITS OF DISTURBANCE SHALL BE NO GREATER THAN 50 ACRES AT ANY ONE TIME WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE EPD DISTRICT OFFICE. IF EPD APPROVES THE REQUEST TO DISTURB 50 ACRES OR MORE AT ANY ONE TIME, THE PLAN MUST INCLUDE AT LEAST 4 OF THE BMPS LISTED IN APPENDIX 1 OF THIS CHECKLIST.

LIMITS OF DISTURBANCE: SEE ITEM #6 BELOW

ITEM 4 & 5:

24-HR EROSION CONTROL CONTACT:

Name: ELIZABETH GILES, Address: 1501 AVIATION WAY, AUGUSTA, GA 30906, Phone: (706) 796-4010, Email: EGILES@AUGUSTA.GOV

PRIMARY PERMITTEE:

Name: TIM WEEGAR, Address: 1501 AVIATION WAY, AUGUSTA, GA 30906, Phone: (706) 796-4009, Email: TWEEGAR@AUGUSTA.GOV

ITEM 6:

TOTAL AREA PHASE 1 (INITIAL): 9.5 AC, TOTAL DISTURBED AREA PHASE 1 (INITIAL): 9.5 AC

TOTAL AREA PHASE 2 (INTERMEDIATE): 9.5 AC, TOTAL DISTURBED AREA PHASE 2 (INTERMEDIATE): 9.5 AC

TOTAL AREA PHASE 3 (FINAL): 0.0 AC, TOTAL DISTURBED AREA PHASE 3 (FINAL): 0.0 AC

ITEM 7:

THE GPS LOCATION OF THE CONSTRUCTION EXIT 1 IS: N33.36024 -W81.96851, THE GPS LOCATION OF THE CONSTRUCTION EXIT 2 IS: N33.36018 -W81.96104

ITEM 8:

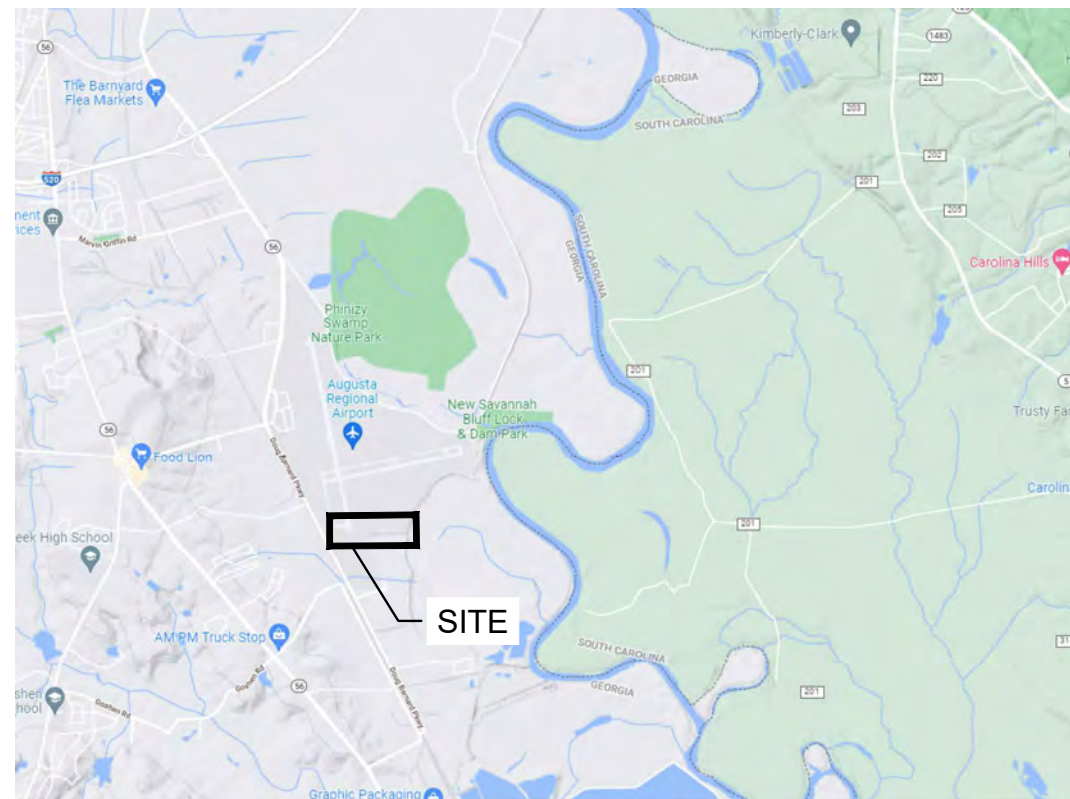
INITIAL DATE AND REVISION DATES OF THE PLAN ARE DEPICTED ON ALL SHEETS.

ITEM 9:

EXISTING SITE CONDITIONS: THE EXISTING SITE IS A PARTIALLY DEVELOPED SITE AT AUGUSTA REGIONAL AIRPORT. THE SITE HAS OPEN DITCH INCLUDING A PORTION OF COVERED WITH UNDERGROUND PIPE.

NATURE OF CONSTRUCTION ACTIVITY: THIS PROJECT INVOLVES CONSTRUCTION OF NEW UNDERGROUND DRAINAGE NETWORK (PIPES AND INLETS). THE NEW PIPES WILL BE COVERED WITH PROPOSED GRADING WORK. THE GRADING PHASE CONSISTS OF GRADING, DRAINAGE, EROSION CONTROL, AND GRASSING.

ITEM 10:



VICINITY MAP NTS

ITEM 11:

THE RUNOFF LEAVES THE SITE INTO TWIGGS DEAD RIVER AND EVENTUALLY SAVANNAH RIVER.

OTHER ADJACENT SITE DATA & SENSITIVE AREAS:

STREAMS - THE DRAINAGE FROM THE SITE FLOWS INTO THE EXISTING PIPE SYSTEM. FROM THERE RUNOFF FLOWS INTO A DRAINAGE CHANNEL WHICH CONNECTS TO TWIGGS DEAD RIVER AND EVENTUALLY SAVANNAH RIVER.

LAKES - THERE ARE NO LAKES NEAR THIS PROJECT AT THE PROJECT. RESIDENTIAL AREAS - THERE ARE ONLY RESIDENTIAL AREAS TO THE WEST OF THE AIRPORT OFF MIKE PADGETT HIGHWAY.

WETLANDS - THERE ARE NO WETLANDS THAT WILL BE AFFECTED BY THIS PROJECT. MARSHLANDS - THERE ARE NO MARSHLANDS IN THIS PROJECT LIMITS.

SENSITIVE AREAS - STREAM BUFFERS ARE LOCATED DOWNSTREAM OF THE SITE TO THE SOUTH WEST.

ITEM 12 & 13:

DESIGN PROFESSIONAL'S CERTIFICATION:

1) 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...

2) 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.

3) I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECT SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT CERTIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE.

Signature of David Skurky, PE and date 10/22/24, followed by name and certification number.

DESIGN PROFESSIONAL 7-DAY SITE CERTIFICATION

DATE OF INSPECTION _____

I CERTIFY THE SITE WAS IN COMPLIANCE WITH THE ES&PC PLAN ON THE DATE OF INSPECTION.

GSWCC LEVEL II DESIGN PROFESSIONAL CERTIFICATION # _____

INSPECTION REVEALED THE FOLLOWING DISCREPANCIES FROM THE ES&PC PLAN:

THE DEFICIENCIES MUST BE ADDRESSED AND A RE-INSPECTION SCHEDULED. WORK SHALL NOT PROCEED ON THE SITE UNTIL DESIGN PROFESSIONAL CERTIFICATION IS OBTAINED.

ITEM 14:

"THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS, PERIMETER CONTROL BMP'S AND SEDIMENT BASINS WITHIN 7 DAYS AFTER INSTALLATION."

THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE DESIGN ENGINEER ONE WEEK PRIOR TO THE ANTICIPATED PERIMETER CONTROL AND SEDIMENT BASIN INSTALLATION. CALL AULICK ENGINEERING AT 678-825-8196; THE ENGINEER'S NAME IS LISTED UNDER ITEMS #2 AND #12 ON THIS SHEET. FAILURE TO NOTIFY THE DESIGN PROFESSIONAL RELEASES AULICK ENGINEERING FROM ANY RELATED FINES OR LIABILITY.

ITEM 15:

"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."

ITEM 16:

THERE ARE NO BUFFER ENCROACHMENTS OR BUFFER VARIANCES REQUIRED.

ITEM 17:

"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."

ITEM 18:

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

ITEM 19:

"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."

ITEM 20:

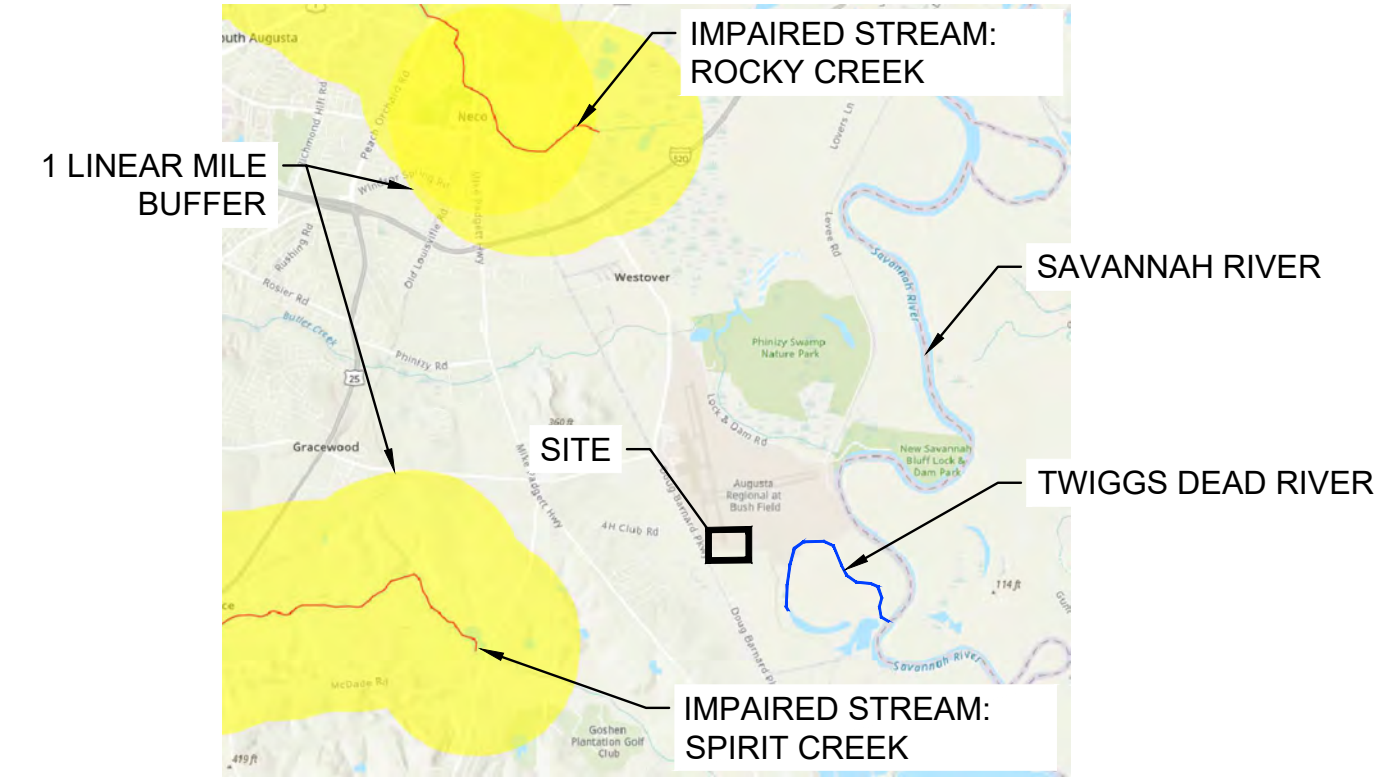
"EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE."

ITEM 21:

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

ITEM 22:

THIS PROJECT DOES NOT DISCHARGE STORMWATER DIRECTLY INTO AN IMPAIRED STREAM, NOR IS LOCATED WITHIN ONE LINEAR MILE OF AN IMPAIRED STREAM, AND THEREFORE A TMDL PLAN HAS NOT BEEN IMPLEMENTED.



ITEM 23:

THERE IS NO IMPAIRED STREAM SEGMENT WITHIN 1 LINEAR MILE OF THIS PROJECT. THEREFORE, A TMDL PLAN FOR SEDIMENT HAS NOT BEEN FINALIZED AT LEAST 6 MONTHS PRIOR TO NOI.

ITEM 24:

CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF THE VEHICLES ON THE PROJECT SITE IS ALLOWED ONLY IN DESIGNATED AREAS AND PER DETAIL IN THIS PLAN SET. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

ITEM 25:

SPILL PREVENTION:

ANY LEAKS OR SPILLS OF PETROLEUM PRODUCTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTAIN, CONTROL, AND REMEDIATE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL GUIDELINES, ORDINANCES, AND LAWS.

CONTROL OF POLLUTANTS: POLLUTANTS OF POTENTIALLY HAZARDOUS MATERIALS, SUCH AS FUELS, LUBRICANTS, LEAD PAINT, CHEMICALS OR BATTERIES, SHALL BE TRANSPORTED, STORED AND UTILIZED IN A MANNER TO PREVENT LEAKAGE OR SPILLAGE INTO THE ENVIRONMENT. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PROPER AND LEGAL DISPOSAL OF ALL SUCH MATERIALS. EQUIPMENT, ESPECIALLY CONCRETE OR ASPHALT TRUCKS, SHALL NOT BE WASHED OR CLEANED OUT ON THE PROJECT EXCEPT IN AREAS WHERE UNUSED PRODUCT CONTAMINANTS CAN BE PREVENTED FROM ENTERING WATERWAYS.

AN SPCC PLAN WILL BE DEVELOPED AND APPROVED PRIOR TO INSTALLATION OF FUEL TANKS. THIS PLAN WILL REQUIRE THE FOLLOWING:

- 1. ALL BARE SOIL AROUND FUELING AREA LINED TO PREVENT SEEPAGE INTO SOIL. IN ADDITION, A SPILL KIT WILL BE KEPT ON SITE IN CASE OF LEAKS.
2. TERTIARY CONTAINMENT WILL BE PROVIDED IN THE MOBILE TRUCK AREA.
3. SECONDARY CONTAINMENT WILL BE PROVIDED IN THE FORM OF A CONTAINMENT PAD WITH A VALVE SIZED (OR APPROVED EQUAL) FOR THE APPROPRIATE REFUELING TRUCK.

THE CONTRACTOR SHALL PREPARE AN SPCC PLAN FOR FUEL STORAGE AREAS DURING CONSTRUCTION.

MATERIALS AND EQUIPMENT NECESSARY FOR PETROLEUM SPILL CLEANUP MUST BE KEPT ONSITE AND IN STORAGE AREAS. THESE MAY INCLUDE BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS. SPILL PREVENTION PRACTICES AND PROCEDURES MUST BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. ALL SPILLS MUST BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS. FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) MUST BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802.

FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD MUST BE CONTACTED WITHIN 24 HOURS. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES MUST BE CONTACTED AS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLANS IF MORE THAN 1320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITY EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.



Mead and Hunt, Inc. 5955 Core Road, Suite 515 North Charleston, SC 29406 phone: 843-486-8330 meadhunt.com



Copyright 2022 Mead & Hunt, Inc. This document, or any portion thereof, shall not be duplicated, disseminated, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt shall not be responsible for any unauthorized use of, or alteration to these documents.

AUGUSTA REGIONAL AIRPORT SOUTHEAST DRAINAGE DITCH ENCLOSURE PH II 1501 AVIATION WAY AUGUSTA, GA 30906-9620

ISSUED FOR BID



GSWCC LEVEL II DESIGN PROFESSIONAL CERTIFICATION # 0000045842 EXP. 10/01/2025

Project and design information including M&H No., Date, Designer, and Checker.

SHEET CONTENTS: EROSION, SEDIMENT & POLLUTION CONTROL PLAN - NOTES

SHEET NO.

C-022



ITEM 26:

THE MEASURES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORMWATER THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED:

- DUST CONTROL
- SLOPE STABILIZATION
- SODDING
- STONE OUTLET PROTECTION
- PERMANENT GRASSING

THESE BMPS WERE SELECTED BASED ON EXISTING CONDITIONS AND TOPOGRAPHY CONSIDERATIONS.

ITEM 27:

THE CONTRACTOR MUST USE MEASURES SUCH AS PLASTIC SHEETING OR TEMPORARY ROOFS TO COVER BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE, AND OTHER MATERIALS IN ORDER TO MINIMIZE EXPOSURE TO PRECIPITATION AND STORMWATER.

ITEM 28:

- THE PRACTICES THAT WILL BE USED TO REDUCE THE POLLUTANTS IN STORMWATER DISCHARGE ARE:
- TEMPORARY GRASSING
 - ROCK DAM FILTER
 - EXCAVATED SEDIMENT TRAP
 - TEMPORARY CHECK DAMS
 - TEMPORARY SILT FENCE

THESE BMPS REMOVE POLLUTANTS THROUGH SETTLING, FILTRATION, PONDING AND OTHER METHODS AS ILLUSTRATED IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.

PRODUCT SPECIFIC PRACTICES

PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS, AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ONSITE VEHICLES AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATERS, NATURAL DRAINS, AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS, AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

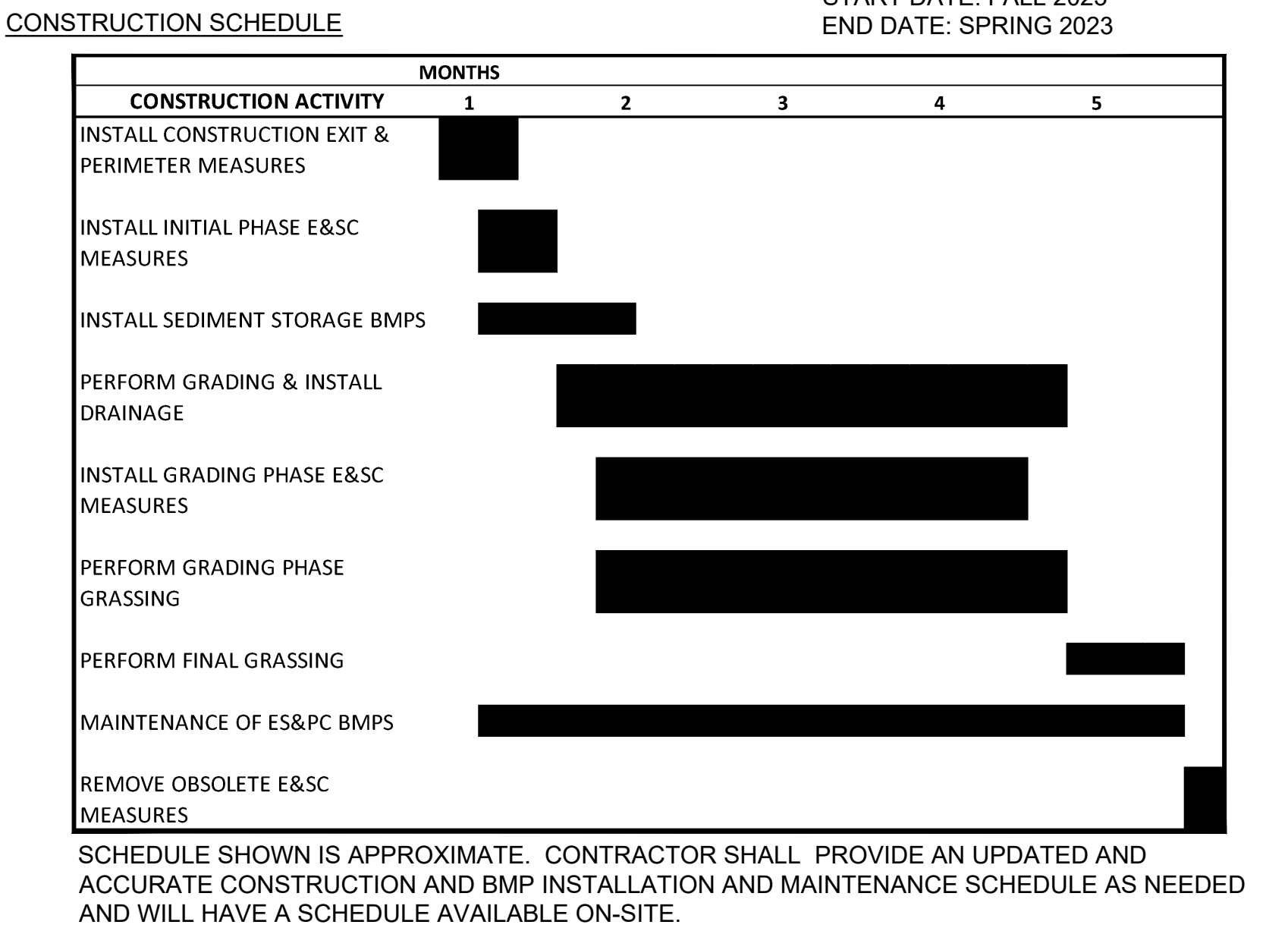
PAINTS/FINISHES/SOLVENTS - AIL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS, AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

CONCRETE TRUCK WASHING - CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT.

FERTILIZER/HERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

ITEM 29:



ITEM 30:

INSPECTION 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 SEVEN (7) 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 HAS BEEN SUBMITTED) 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 CERTIFICATION 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.

ITEM 31:

THERE IS ONE OUTFALL SAMPLING LOCATION FOR THE AGS DITCH ENCLOSURE PHASE II PROJECT. THE OUTFALL SAMPLING LOCATION WILL BE AT THE PROJECT OUTFALLS SHOWN ON SHEET C-032.

SAMPLING METHODS AND DEVICES TO BE USED SHALL BE DETERMINED BY THE CONTRACTOR, PROVIDED AS A PART OF THE NOI SUBMITTAL, AND MAINTAINED WITH THE ES&PCP. THESE DEVICES SHALL, AT A MINIMUM, MEET THE REQUIREMENTS OF NPDES PERMIT GAR100001.

THE OUTFALL SAMPLING POINT IS LOCATED IN THE RECEIVING WATERS OF A WARM WATER FISHERY. THE NEPHELOMETRIC TURBIDITY UNIT (NTU) VALUE AT THE SAMPLING LOCATION SHALL BE NO HIGHER THAN 75 UNITS AS SHOWN IN ITEM 34.

SAMPLING FREQUENCY:

NPDES PERMIT GAR100001 REQUIRES THAT A MINIMUM OF TWO SAMPLING EVENTS OCCUR OVER THE COURSE OF THE PROJECT AS FOLLOWS:

(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 STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN IN 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 STORM WATER 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 STORM WATER 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 SAMPLING LOCATION;

ITEM 31 (CONT'D):

(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 STORM WATER 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 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.

REPORTING

1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. 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. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2. 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:
- THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;
 - THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
 - THE DATE(S) ANALYSES WERE PERFORMED;
 - THE TIME(S) ANALYSES WERE INITIATED;
 - THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;
 - REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED;
 - THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS;
 - RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU;" AND
 - 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.

ITEM 32:

RETENTION OF RECORDS:

- THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:
 - A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
 - A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
 - THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;
 - A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
 - A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.a. OF THIS PERMIT;
 - A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT; AND
 - DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.a.(2). OF THIS PERMIT.
- COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION) OR OTHER REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

ITEM 33:

SAMPLING REQUIREMENTS.

THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THIS SECTION IS APPLICABLE TO PRIMARY PERMITTEES WITH A TOTAL PLANNED DISTURBANCE EQUAL TO OR GREATER THAN ONE (1) ACRE 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 SITE OR THE COMMON DEVELOPMENT; (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. 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). THE ANALYTICAL METHOD 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.

SAMPLING 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.

SAMPLING POINTS

(1). FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). 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 STORM WATER 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 STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORM WATER 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 STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORM WATER 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 STORM WATER OUTFALL CHANNEL(S).

(D). CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORM WATER 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 SHEETFLOW 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 AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL, 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).

(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 STORM WATER 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.

SITE AREA: 1,411 AC
SURFACE DA: 0.06 SQ MI

ITEM 34:

APPENDIX B NTU VALUES AT OUTFALL SAMPLING POINTS:

Table with columns: WARM WATER (SUPPORTING WARM WATER FISHERIES), SURFACE WATER DRAINAGE AREA, SQUARE MILES, and rows for site size in acres (1.00-10, 10.01-25, 25.01-50, 50.01-100, 100.01+).

ITEM 35:

THE SAMPLING LOCATIONS, PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES INTO WHICH STORM WATER IS DISCHARGED ARE SHOWN ON DRAINAGE AREA MAPS, C-040 AND C-041.

ITEM 36:

INITIAL PHASE EROSION

A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT, AND NPDES PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES.

THE FOLLOWING INITIAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY:

- PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS. THE CONSTRUCTION EXIT IS TO BE INSTALLED AND MAINTAINED AS SHOWN IN DETAILS. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE/EXITS, ALL PERIMETER EROSION CONTROL AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE INITIAL PHASE EROSION CONTROL PLAN. STONE CHECK DAMS AND/OR ROCK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN. ALL OTHER SITE SPECIFIC EROSION CONTROL BMP'S PER THE PLANS SHEETS IN THIS SET.

INTERMEDIATE (GRADING) EROSION CONTROL NOTES:

DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL GROUND COVER IS LIMITED.

EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITIES. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.

AT THE END OF EACH WORK DAY ALL SLOPES 3:1 OR STEEPER AND SLOPES HIGHER THAN 5 FEET SHALL RECEIVE SURFACE ROUGHENING, EROSION CONTROL MATTING, AND SEEDING AS SHOWN ON THE EROSION CONTROL PLAN.

SILT FENCE SHALL BE PLACED AT THE TOE OF ALL DIRT STOCK PILE AREAS AS LOCATED BY CONTRACTOR. COST OF SILT FENCE AND TEMPORARY GRASSING ASSOCIATED WITH STOCK PILE AREAS SHALL BE INCIDENTAL TO MOBILIZATION.

TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE.

CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY. IN ADDITION, SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT AND MAINTAINED OR REPLACED. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED AT CONTRACTOR'S EXPENSE.

EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

CONTRACTOR SHALL INSTALL TEMPORARY DOWNDRAINS WITH INLET FILTER RINGS AND STORM DRAIN OUTLET PROTECTION AS NEEDED TO CONTROL RUNOFF AND EROSION CONTROL DURING GRADING OPERATIONS THE COST OF THESE MEASURES SHALL BE CONSIDERED INCIDENTAL TO GRADING.

FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE PROJECT UNTIL SUCH MEASURES ARE CORRECTED AS SHOWN ON THE APPROVED EROSION CONTROL PLANS.

ALL EROSION CONTROL DEVICES SHALL MEET THE REQUIREMENTS SET FORTH IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA", LATEST EDITION, GEORGIA SOIL AND WATER CONSERVATION COMMISSION AND THE "FIELD MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA", LATEST EDITION.

ITEM 36 (CONT'D):

FINAL PHASE EROSION CONTROL NOTES:

CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY. IN ADDITION, SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT AND MAINTAINED OR REPLACED. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF SO THAT IT WILL NOT ENTER THE INLETS AGAIN.

EROSION CONTROL MEASURES WILL BE MAINTAINED UNTIL FINAL STABILIZATION WHERE 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER. TEMPORARY EROSION CONTROL DEVICES MAY BE REMOVED AND DISPOSED OF AFTER APPROVAL OF THE ENGINEER.

FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES UNTIL STABILIZATION WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE PROJECT UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.

ALL EROSION CONTROL DEVICES SHALL MEET THE REQUIREMENTS SET FORTH IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA", LATEST EDITION, GEORGIA SOIL AND WATER CONSERVATION COMMISSION.

ITEM 37:

GRAPHIC SCALE AND NORTH ARROW ARE ON ALL PLAN SHEETS.

ITEM 38:

EXISTING AND PROPOSED CONTOUR LINES WITH CONTOUR LINES DRAWN AT AN INTERVAL IN ACCORDANCE WITH THE FOLLOWING CAN BE FOUND ON ALL SHEETS WITH CONTOURS.

Table with columns: Map Scale, Ground Slope, Contour Intervals, ft. Rows include 1 inch = 100ft or larger scale, Flat 0 - 2%, Rolling 2 - 8%, Steep 8% +, and 0.5 or 1, 1 or 2, 2.5 or 10.

ITEM 39:

ALTERNATIVE BMPS:

ALTERNATIVE EROSION CONTROL BMP DESIGNS WHOSE PERFORMANCE HAS BEEN DOCUMENTED TO BE EQUIVALENT TO OR SUPERIOR TO CONVENTIONAL BMPS AS CERTIFIED BY A DESIGN PROFESSIONAL (UNLESS DISAPPROVED BY EPD OR THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION) MUST BE SUBMITTED TO THE DESIGN ENGINEER PRIOR TO THE INSTALLATION.

ALTERNATIVE BMPS USED ON THIS PROJECT: NONE

ITEM 40:

THERE ARE NO ALTERNATE BMP FOR APPLICATION TO THE EQUIVALENT BMP LIST

ITEM 41:

THERE IS NO BUFFER WITHIN 200FT OF PROJECT LIMITS.

ITEM 42:

THERE IS A WETLAND LESS THAN 200 FT FROM THE WESTERN EDGE OF THE PROJECT LIMITS.

ITEM 43:

DRAINAGE BASIN DELINEATION SHOWN ON DRAINAGE AREA MAPS, C-041 AND C-042.



Mead and Hunt, Inc. 5955 Core Road, Suite 515 North Charleston, SC 29406 phone: 843-486-8330 meadhunt.com



© Copyright 2022 Mead & Hunt, Inc. This document, or any portion thereof, shall not be duplicated, disclosed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt shall not be responsible for any unauthorized use of, or alteration to these documents.

AUGUSTA REGIONAL AIRPORT SOUTHEAST DRAINAGE DITCH ENCLOSURE PH II 1501 AVIATION WAY AUGUSTA, GA 30906-9620

ISSUED

ISSUED FOR BID



GSWCC LEVEL II DESIGN PROFESSIONAL CERTIFICATION # 0000045842 EXP. 10/01/2025

AGS: M&H NO.: 0119700-210463.01 DATE: OCTOBER 22, 2024 DESIGNED BY: CMJ DRAWN BY: HCA CHECKED BY: AKM DO NOT SCALE DRAWINGS

SHEET CONTENTS

EROSION, SEDIMENT & POLLUTION CONTROL PLAN - NOTES

SHEET NO.

C-024

ITEM 44:

HYDROLOGY STUDY AND MAPS OF DRAINAGE BASINS FOR BOTH PRE AND POST-DEVELOPMENT CONDITIONS SHOWN ON THE DRAINAGE MAPS, C-040 AND C-041.

ITEM 45:

THE PRE-PROJECT AND POST-PROJECT CURVE NUMBERS AND PEAK FLOW RATES CAN BE FOUND ON THE DRAINAGE AREA MAPS, C-040 AND C-041.

ITEM 46:

THERE ARE PIPES OR STORM STRUCTURES, THEREFORE OUTLET PROTECTION IS APPLICABLE FOR THIS PROJECT AND INFORMATION CAN BE FOUND AT C-036

ITEM 47:



SOILS MAP
NTS

MAP UNIT SYMBOL	MAP UNIT NAME	MAP UNIT SYMBOL	MAP UNIT NAME
Rr	ROANOKE LOAM	WvB	WICKHAM-URBAN LAND COMPLEX, 2 TO 6 PERCENT SLOPES
DgA	DOGUE FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES		

ITEM 48:

LIMITS OF DISTURBANCE FOR EACH PHASE OF CONSTRUCTION SHOWN ARE SHOWN ON THE EROSION CONTROL PLAN SHEET C-027 - C-035. THE TOTAL DISTURBED AREAS ARE LISTED UNDER ITEM 6.

ITEM 49:

SEDIMENT STORAGE:

FOR COMMON DRAINAGE LOCATIONS A TEMPORARY (OR PERMANENT) SEDIMENT BASIN PROVIDING AT LEAST 1,809 CUBIC FEET (67 CUBIC YARDS) OF STORAGE PER ACRE DRAINED, OR EQUIVALENT CONTROL MEASURES, SHALL BE PROVIDED UNTIL FINAL STABILIZATION OF THE SITE. THE 1,809 CUBIC FEET (67 CUBIC YARDS) OF STORAGE AREA PER ACRE DRAINED DOES NOT APPLY TO FLOWS FROM OFF-SITE AREAS AND FLOWS FROM ON-SITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. FOR DRAINAGE LOCATIONS WHERE A TEMPORARY SEDIMENT BASIN PROVIDING AT LEAST 1,809 CUBIC FEET (67 CUBIC YARDS) OF STORAGE PER ACRE DRAINED, OR EQUIVALENT CONTROLS IS NOT ATTAINABLE, SEDIMENT TRAPS, SILT FENCES, WOOD MULCH BERMS OR EQUIVALENT SEDIMENT CONTROLS ARE REQUIRED FOR ALL SIDE SLOPE AND DOWN SLOPE BOUNDARIES OF THE CONSTRUCTION AREA. WHEN THE SEDIMENT FILLS TO A VOLUME AT MOST OF 22 CUBIC YARDS PER ACRE FOR EACH ACRE OF DRAINAGE AREA, THE SEDIMENT SHALL BE REMOVED TO RESTORE THE ORIGINAL DESIGN VOLUME. THIS SEDIMENT MUST BE PROPERLY DISPOSED.

NEITHER A TEMPORARY SEDIMENT BASIN NOR DETENTION FACILITY IS PROPOSED ON THIS SITE AS PART OF THE SEDIMENT STORAGE DESIGN; THEREFORE, WATER WITHDRAWAL FROM THE SURFACE OF THOSE BMPs IS NOT FEASIBLE AND NO SKIMMERS ARE PROPOSED.

PER THE FOLLOWING TABLE, ROCK DAMS AND EXCAVATED INLET SEDIMENT TRAPS ARE USED TO PROVIDE 1,809 CF OF STORAGE PER DRAINAGE ACRE.

Phase	Disturbed Area (ac)	Sediment Storage Required (cf)	Sediment Storage Provided (cf)	Sediment Storage BMPs
Initial	9.6	17,383	30,736	Rd #1 & #2
Grading	9.6	17,383	40,723	Sd2- EXC. #1-3, Rd #3
Final	No disturbance in Final Phase - only permanent stabilization			

ITEM 50:

LOCATION OF BEST MANAGEMENT PRACTICES ARE SHOWN ON EROSION CONTROL SHEET C-027 - C-035.

ITEM 51:

DETAILED DRAWINGS FOR ALL STRUCTURAL PRACTICES ARE SHOWN ON EROSION CONTROL DETAIL SHEETS, C-036 - C-039

ITEM 52:

VEGETATIVE PLAN IS SHOWN ON SHEET C-039.

PROJECT PERMITTING NOTES:

1. THE COST OF LAND DISTURBANCE PERMITTING WITH THE CITY, COUNTY AND THE STATE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. THE CONTRACTOR IS ALSO RESPONSIBLE FOR FILING ALL OTHER FEDERAL, STATE, AND LOCAL PERMITS AND FEES REQUIRED FOR CONSTRUCTING THE PROJECT, INCLUDING, BUT NOT LIMITED TO, DRIVEWAY PERMITS, LOCAL LAND DISTURBANCE PERMITS, NOIs, BUILDING PERMITS, ETC. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PAYING ALL COSTS AND FEES ASSOCIATED WITH ANY REQUIRED PLAN PREPARATION, PAPERWORK, TESTING, INSPECTION, OR ANY OTHER ITEMS NECESSARY TO MEET PERMIT REQUIREMENTS. ANY FINES FOR IMPROPER INSTALLATION AND MAINTENANCE SHALL BE PAID FOR AT THE CONTRACTOR'S EXPENSE.
3. THE BMPs SHOWN ON THESE PLANS REPRESENT THE MINIMUM REQUIRED BMPs. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING ADDITIONAL BMPs AT NO ADDITIONAL COST TO THE PROJECT FOR PHASING OF CONSTRUCTION OR TO CONTROL THE ESCAPE OF SEDIMENT FROM THE SITE.

GENERAL EROSION CONTROL NOTES:

1. CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION ACTIVITY.
2. CONTRACTOR SHALL MAINTAIN AND PROTECT ALL EXISTING SIGNS, LIGHTS, EXISTING UTILITIES, AND CIRCUITS UNLESS OTHERWISE NOTED IN THE DEMOLITION PLANS OR UNTIL REQUIRED FOR REMOVAL.
3. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES IN THE LAYOUT AND SHALL NOT PROCEED UNTIL CLARIFICATION IS PROVIDED.
4. STAGING AREA MAY BE FIELD ADJUSTED IF APPROVED BY ENGINEER AND/OR RPR.
5. COST OF MAINTENANCE FOR EROSION CONTROL ITEMS SHALL BE INCIDENTAL TO THE COST OF THAT ITEM.
6. ALL COSTS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND REMOVAL OF THE STAGING AREA SHALL BE INCIDENTAL TO THE COST OF MOBILIZATION FOR THE PROJECT.
7. ANY REMOVAL OF EXISTING SEDIMENT AND VEGETATION THAT IS REQUIRED TO CONSTRUCT A BMP SHALL BE INCIDENTAL TO THE CONSTRUCTION OF SAID BMP.



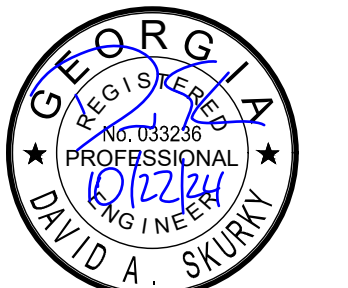
Mead and Hunt, Inc.
5955 Core Road, Suite 515
North Charleston, SC 29406
phone: 843-486-8330
meadhunt.com



© Copyright 2022 Mead & Hunt, Inc.
This document, or any portion thereof, shall not be duplicated, disclosed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt shall not be responsible for any unauthorized use of, or alteration to these documents.

**AUGUSTA REGIONAL AIRPORT
SOUTHEAST DRAINAGE DITCH
ENCLOSURE PH II
1501 AVIATION WAY
AUGUSTA, GA 30906-9620**

ISSUED FOR BID



GSWCC LEVEL II DESIGN
PROFESSIONAL
CERTIFICATION # 0000045842
EXP. 10/01/2025

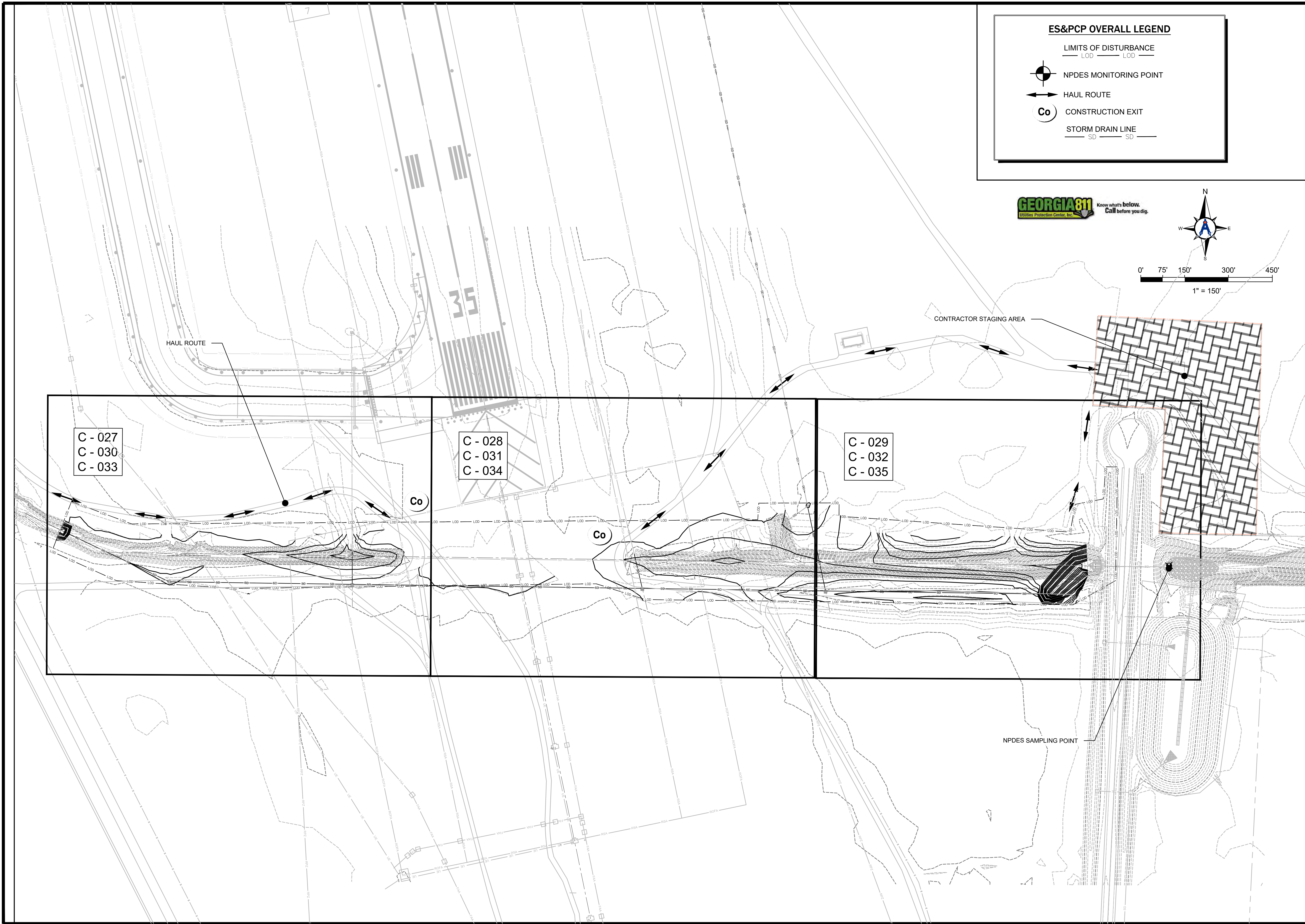
AGS:
M&H NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: CMJ
DRAWN BY: HCA
CHECKED BY: AKM
DO NOT SCALE DRAWINGS

SHEET CONTENTS
EROSION, SEDIMENT & POLLUTION CONTROL PLAN - NOTES

SHEET NO.

C-025

C:\AULICK\AULICK ENGINEERING\10_M&H - PROJECTS\1001_AGS100122_AGS DRAINAGE DITCH EAST-WEST2 DESIGN\2E DWG\2E.4 SHEETS\C-026.00 ESPCP OVERALL LAYOUT.DWG
10/25/2024 9:07:13 AM



ES&PCP OVERALL LEGEND

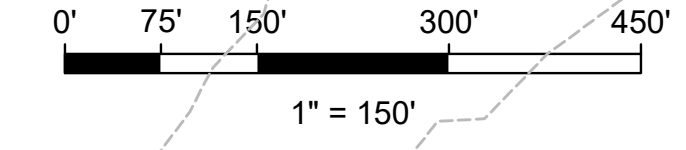
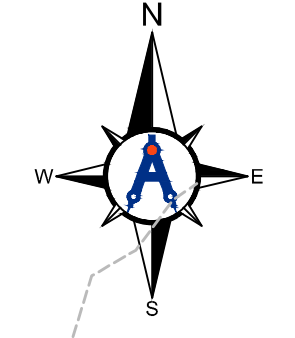
— LOD — LOD —
LIMITS OF DISTURBANCE

● NPDES MONITORING POINT

↔ HAUL ROUTE

Co CONSTRUCTION EXIT

— SD — SD —
STORM DRAIN LINE



Mead & Hunt
Mead and Hunt, Inc.
5955 Core Road, Suite 515
North Charleston, SC 29406
phone: 843-486-8330
meadhunt.com



© Copyright 2022 Mead & Hunt, Inc.
This document, or any portion thereof, shall not be duplicated, disclosed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt shall not be responsible for any unauthorized use of, or alteration to these documents.

**AUGUSTA REGIONAL AIRPORT
SOUTHEAST DRAINAGE DITCH
ENCLOSURE PH II
1501 AVIATION WAY
AUGUSTA, GA 30906-9620**

ISSUED FOR BID



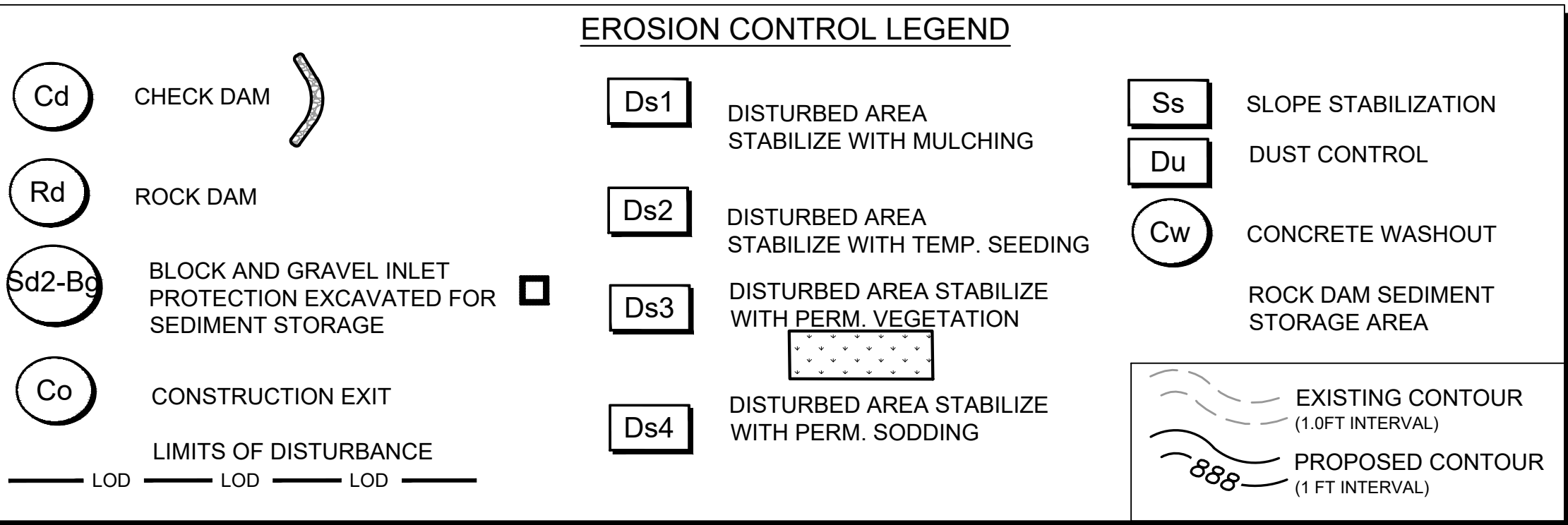
GSWCC LEVEL II DESIGN
PROFESSIONAL
CERTIFICATION # 0000045842
EXP. 10/01/2025

AIG:
M&H NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: CMJ
DRAWN BY: HCA
CHECKED BY: AKM
DO NOT SCALE DRAWINGS

SHEET CONTENTS
EROSION, SEDIMENT,
& POLLUTION
CONTROL PLAN-
OVERALL LAYOUT

SHEET NO.

C-026



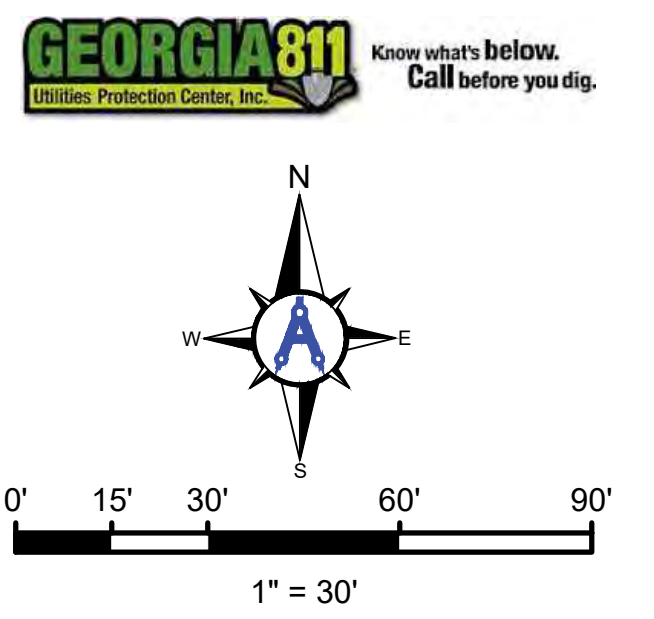
- ### ES&PCP SEQUENCE - INITIAL PHASE
1. INSTALL CONSTRUCTION EXIT (Co).
 2. ENSURE THAT A COPY OF ES&PCP AND NPDES ARE ON-SITE AND AVAILABLE AT ALL TIMES.
 3. INSTALL PERIMETER CONTROLS (Sd1-NS) AND INLET PROTECTION ON ANY EXISTING INLETS (Sd2-Bg) NEAR PROPOSED GRADING, INCLUDING NECESSARY EXCAVATION REQUIRED PER PLANS AND ROCK DAMS AT CONCENTRATED AREAS (Rd #1-3).
 4. INSTALL ANY ADDITIONAL MEASURES NEEDED THAT ARE NOT SHOWN ON THE PLANS AND MARK UP ES&PCP. COSTS TO BE INCIDENTAL TO THE PROJECT.
 5. **NOTIFY DESIGN ENGINEER FOR REQUIRED 7-DAY INSPECTION VISIT. SEE NOTE 14 ON C-022.**
 6. DO NOT BEGIN EARTH MOVING OPERATIONS UNTIL INITIAL PHASE MEASURES ARE INSTALLED AND 7-DAY INSPECTION AND ASSOCIATED DEFICIENCIES HAVE BEEN CORRECTED.
 7. MAINTAIN AND CLEAN UP ALL EROSION CONTROL STRUCTURES DURING THE PROJECT DURATION.
 8. CONSTRUCTION SEQUENCE IS RECOMMENDED BUT DOES NOT RELIEVE THE CONTRACTOR OF THE LIABILITY TO MEET PERMIT REQUIREMENTS.

GENERAL EROSION CONTROL NOTES

"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."

"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."

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

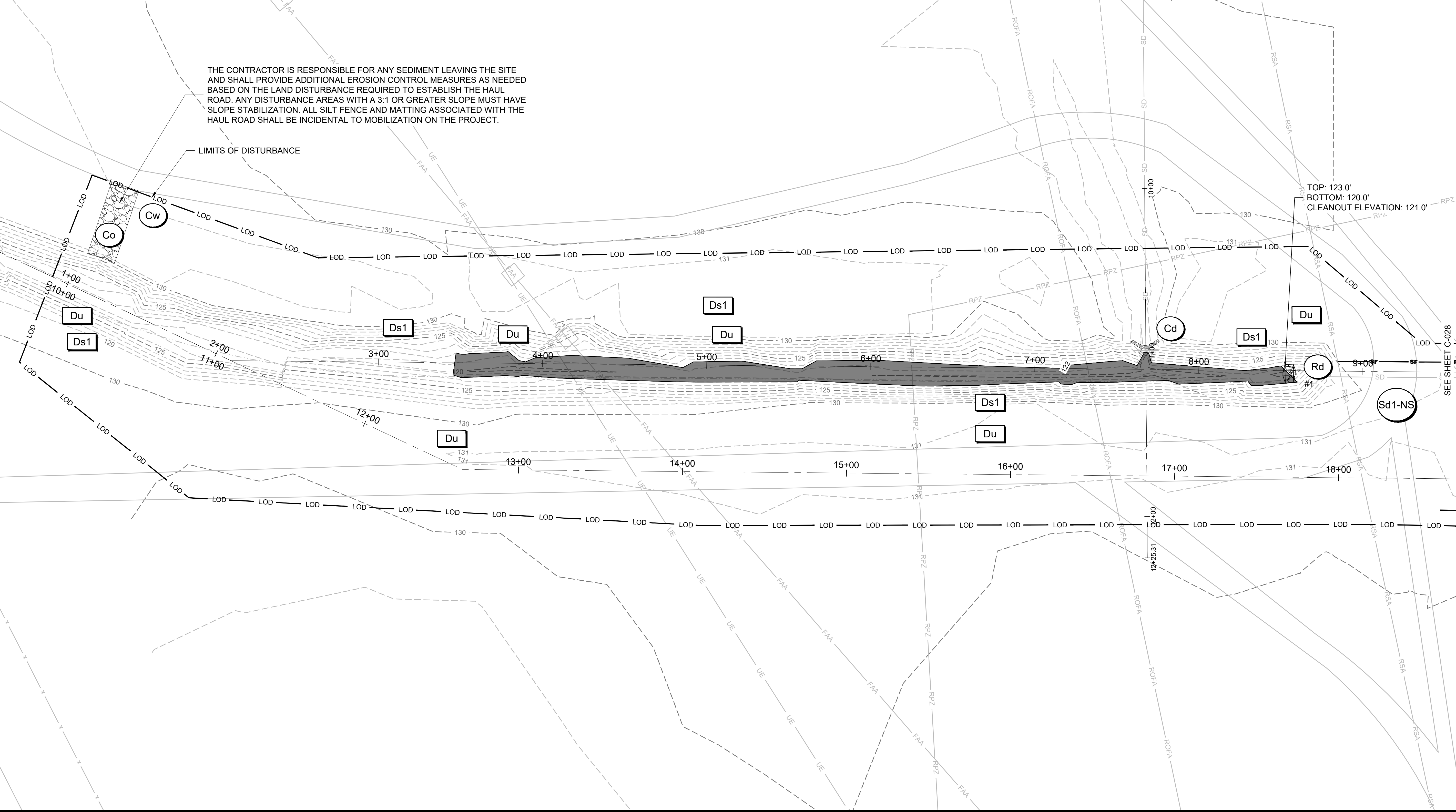


Mead and Hunt, Inc.
5955 Core Road, Suite 515
North Charleston, SC 29406
phone: 843-486-8330
meadhunt.com

STORMWATER • HYDRAULICS • EROSION CONTROL
OFFSHORE & CIVIL SITE • CONSTRUCTION SERVICES

© Copyright 2022 Mead & Hunt, Inc.
This document, or any portion thereof, shall not be duplicated, discussed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt shall not be responsible for any unauthorized use of, or alteration to these documents.

THE CONTRACTOR IS RESPONSIBLE FOR ANY SEDIMENT LEAVING THE SITE AND SHALL PROVIDE ADDITIONAL EROSION CONTROL MEASURES AS NEEDED BASED ON THE LAND DISTURBANCE REQUIRED TO ESTABLISH THE HAUL ROAD. ANY DISTURBANCE AREAS WITH A 3:1 OR GREATER SLOPE MUST HAVE SLOPE STABILIZATION. ALL SILT FENCE AND MATTING ASSOCIATED WITH THE HAUL ROAD SHALL BE INCIDENTAL TO MOBILIZATION ON THE PROJECT.



AUGUSTA REGIONAL AIRPORT SOUTHEAST DRAINAGE DITCH ENCLOSURE PH II

1501 AVIATION WAY
AUGUSTA, GA 30906-9620

ISSUED FOR BID

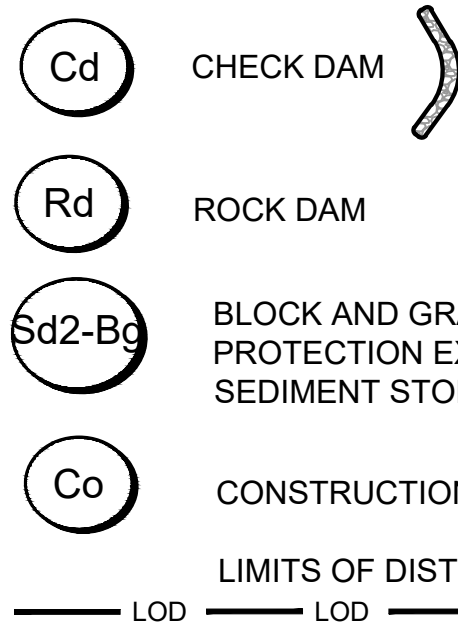
GSWCC LEVEL II DESIGN
PROFESSIONAL
CERTIFICATION # 0000045842
EXP. 10/01/2025

M&H NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: CMJ
DRAWN BY: HCA
CHECKED BY: AKM
DO NOT SCALE DRAWINGS

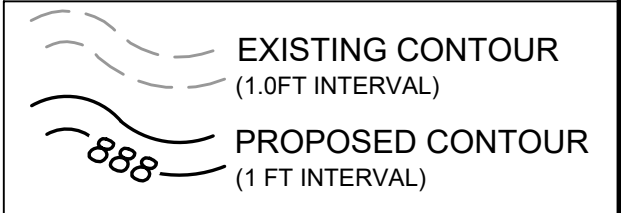
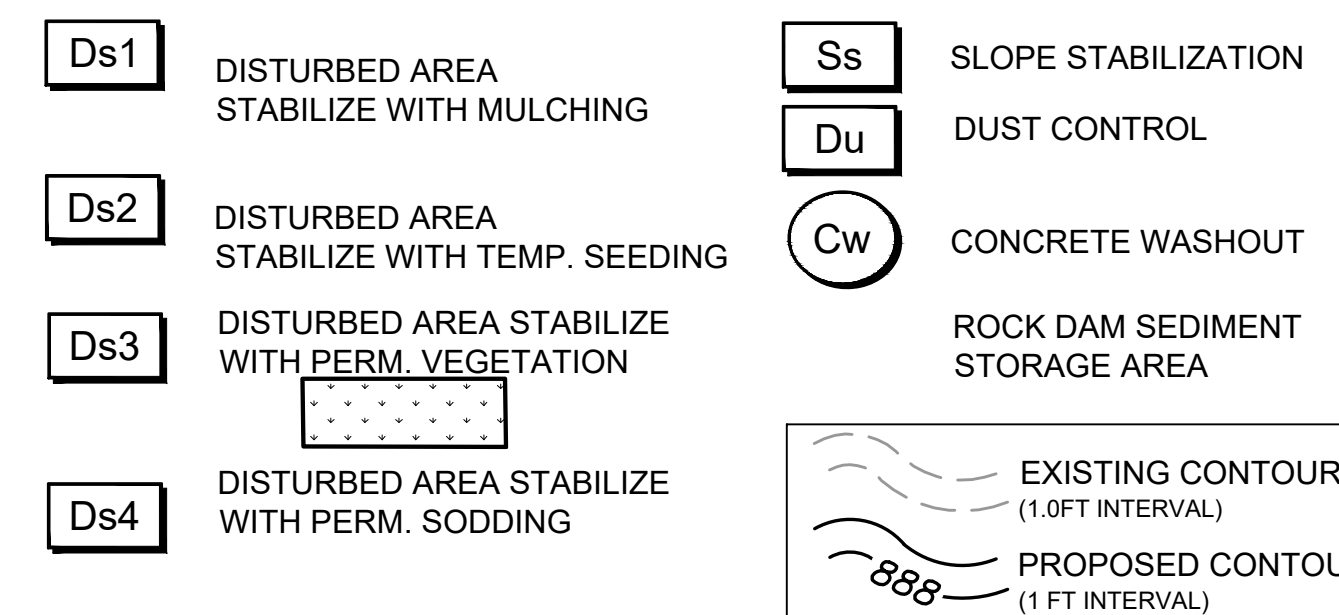
SHEET CONTENTS
EROSION, SEDIMENT,
& POLLUTION
CONTROL PLAN-
INITIAL PHASE

SHEET NO.
C-027

C:\AULICK\ENGINEERING\10_M&H - PROJECTS\1001_AGS100122_AGS DRAINAGE DITCH EAST-WEST2 DESIGN\2E DWG\2E_4 SHEETS\C-021 ESPCP - INITIAL PHASE.DWG
10/25/2024 9:05:54 AM



EROSION CONTROL LEGEND



ES&PCP SEQUENCE - INITIAL PHASE

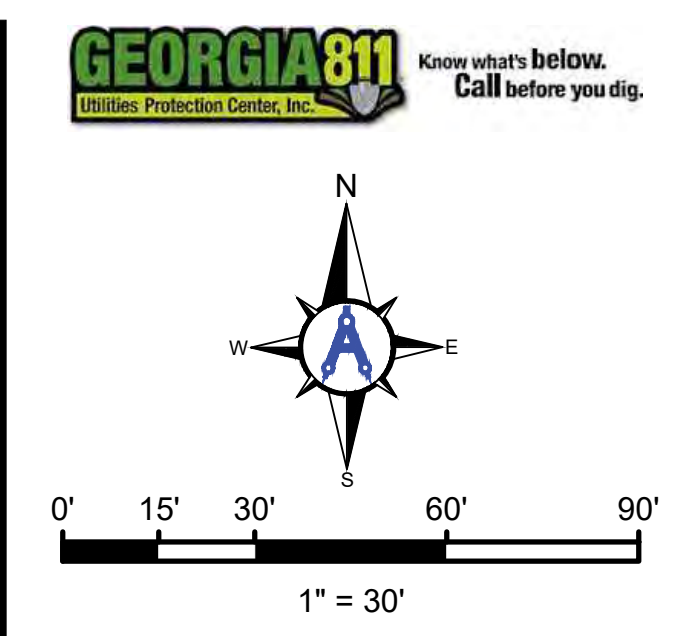
1. INSTALL CONSTRUCTION EXIT (Co).
2. ENSURE THAT A COPY OF ES&PCP AND NPDES ARE ON-SITE AND AVAILABLE AT ALL TIMES.
3. INSTALL PERIMETER CONTROLS (Sd1-NS) AND INLET PROTECTION ON ANY EXISTING INLETS (Sd2-Bg) NEAR PROPOSED GRADING, INCLUDING NECESSARY EXCAVATION REQUIRED PER PLANS AND ROCK DAMS AT CONCENTRATED AREAS (Rd #1-3).
4. INSTALL ANY ADDITIONAL MEASURES NEEDED THAT ARE NOT SHOWN ON THE PLANS AND MARK UP ES&PCP. COSTS TO BE INCIDENTAL TO THE PROJECT.
5. **NOTIFY DESIGN ENGINEER FOR REQUIRED 7-DAY INSPECTION VISIT. SEE NOTE 14 ON C-022.**
6. DO NOT BEGIN EARTH MOVING OPERATIONS UNTIL INITIAL PHASE MEASURES ARE INSTALLED AND 7-DAY INSPECTION AND ASSOCIATED DEFICIENCIES HAVE BEEN CORRECTED.
7. MAINTAIN AND CLEAN UP ALL EROSION CONTROL STRUCTURES DURING THE PROJECT DURATION.
8. CONSTRUCTION SEQUENCE IS RECOMMENDED BUT DOES NOT RELIEVE THE CONTRACTOR OF THE LIABILITY TO MEET PERMIT REQUIREMENTS.

GENERAL EROSION CONTROL NOTES

"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."

"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."

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



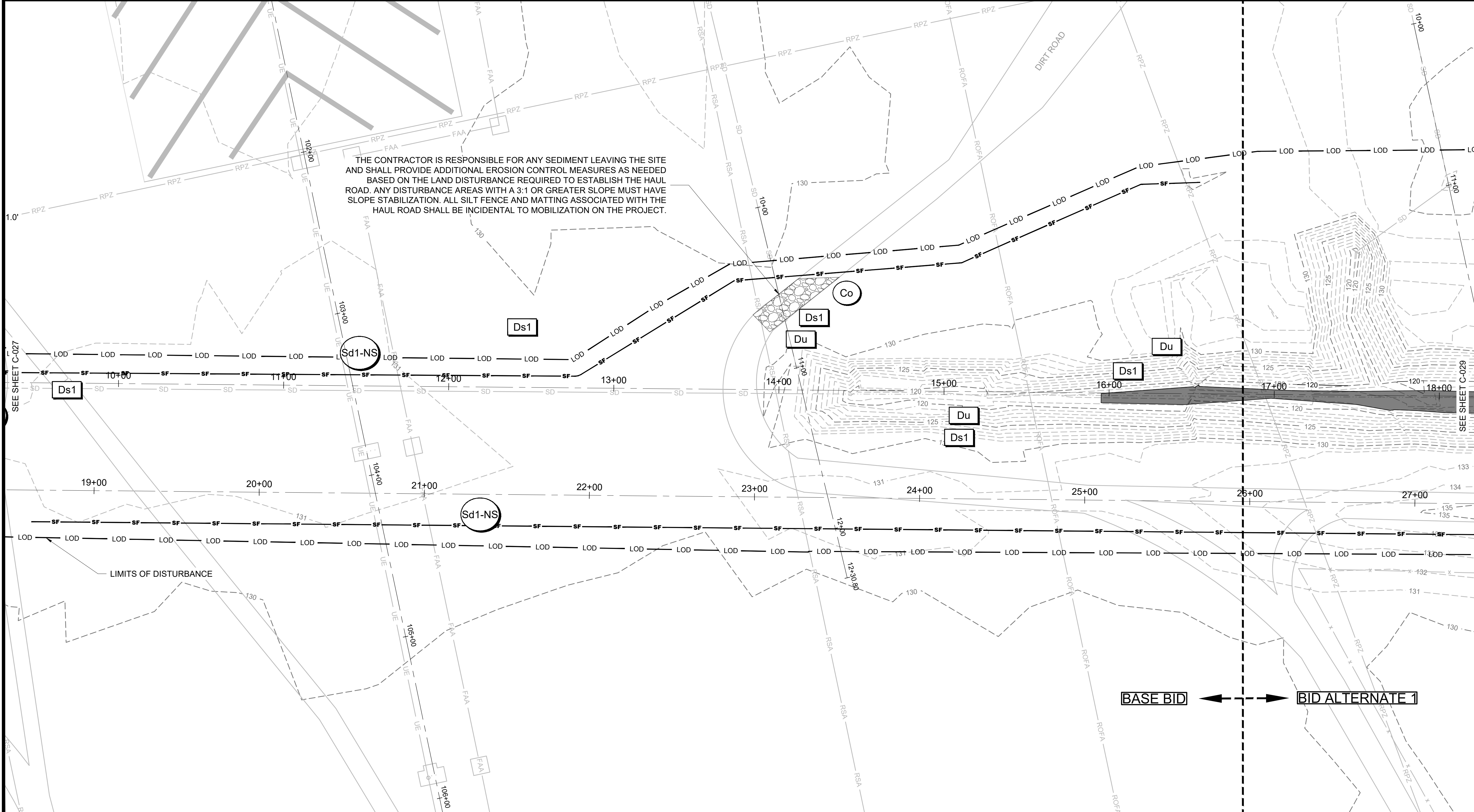
Mead & Hunt
 Mead and Hunt, Inc.
 5955 Core Road, Suite 515
 North Charleston, SC 29406
 phone: 843-486-8330
 meadhunt.com

AGS AUGUSTA REGIONAL AIRPORT

AULICK ENGINEERING LLC
 STORMWATER | HYDRAULICS | EROSION CONTROL
 AIRFIELD & CIVIL SITE | CONSTRUCTION SERVICES

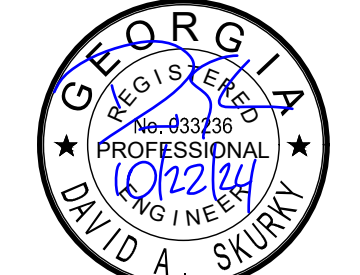
© Copyright 2022 Mead & Hunt, Inc.
 This document, or any portion thereof, shall not be duplicated, disclosed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt shall not be responsible for any unauthorized use of, or alteration to these documents.

THE CONTRACTOR IS RESPONSIBLE FOR ANY SEDIMENT LEAVING THE SITE AND SHALL PROVIDE ADDITIONAL EROSION CONTROL MEASURES AS NEEDED BASED ON THE LAND DISTURBANCE REQUIRED TO ESTABLISH THE HAUL ROAD. ANY DISTURBANCE AREAS WITH A 3:1 OR GREATER SLOPE MUST HAVE SLOPE STABILIZATION. ALL SILT FENCE AND MATTING ASSOCIATED WITH THE HAUL ROAD SHALL BE INCIDENTAL TO MOBILIZATION ON THE PROJECT.



**AUGUSTA REGIONAL AIRPORT
 SOUTHEAST DRAINAGE DITCH
 ENCLOSURE PH II
 1501 AVIATION WAY
 AUGUSTA, GA 30906-9620**

ISSUED FOR BID



GSWCC LEVEL II DESIGN
 PROFESSIONAL
 CERTIFICATION # 0000045842
 EXP. 10/01/2025

AGS:
 M&H NO.: 0119700-210463.01
 DATE: OCTOBER 22, 2024
 DESIGNED BY: CMJ
 DRAWN BY: HCA
 CHECKED BY: AKM
 DO NOT SCALE DRAWINGS

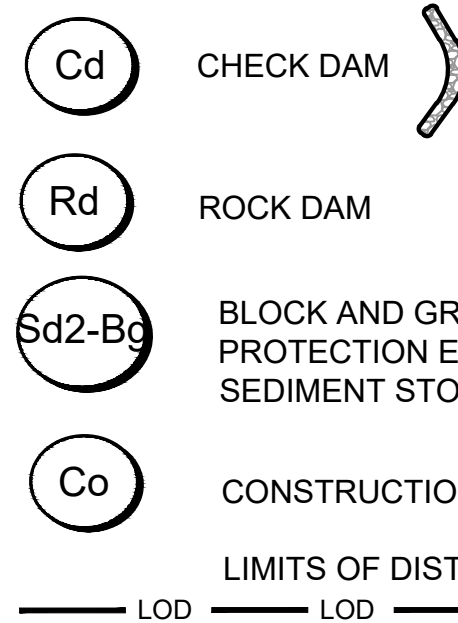
SHEET CONTENTS
 EROSION, SEDIMENT,
 & POLLUTION
 CONTROL PLAN-
 INITIAL PHASE

SHEET NO.

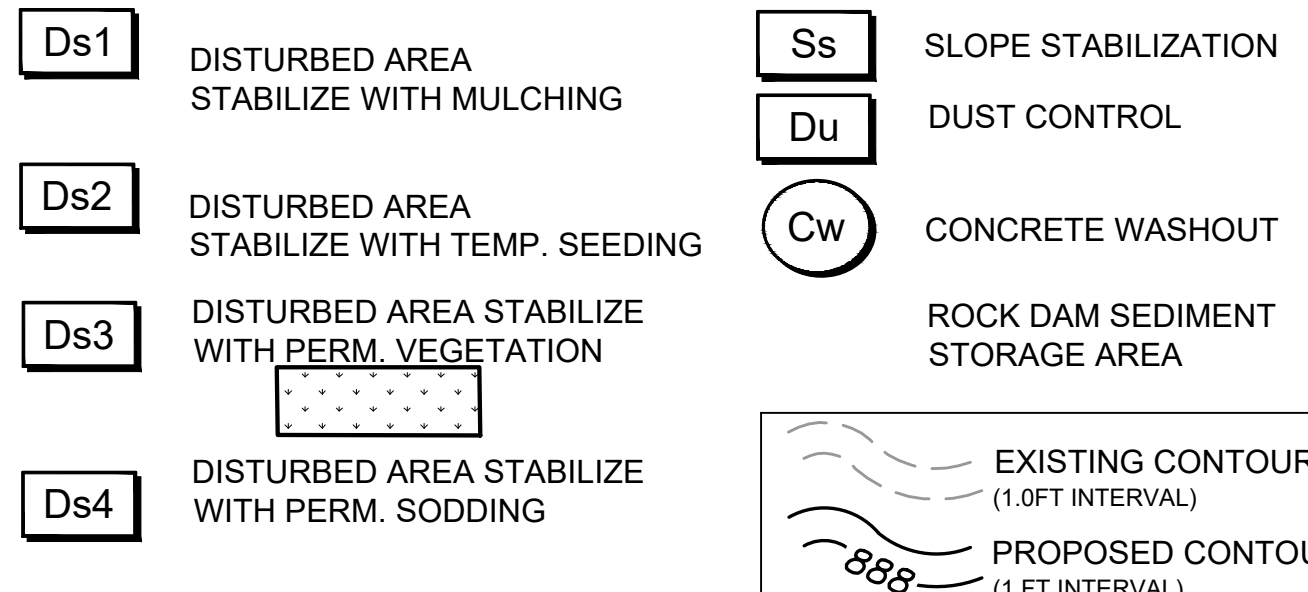
C-028

BASE BID ← → BID ALTERNATE 1

C:\AULICK\ENGINEERING\10_M&H - PROJECTS\1001_AGS\100122_AGS DRAINAGE DITCH EAST-WEST\2 DESIGN\2E DWG\2E_4 SHEETS\C-021 ESPCP - INITIAL PHASE.DWG 10/25/2024 9:06:07 AM



EROSION CONTROL LEGEND



ES&PCP SEQUENCE - INITIAL PHASE

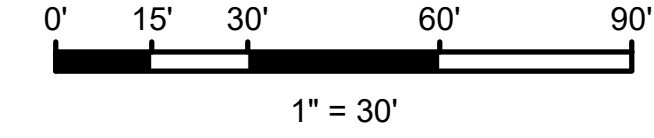
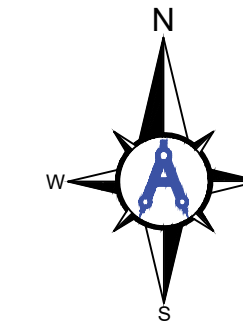
1. INSTALL CONSTRUCTION EXIT (Co).
2. ENSURE THAT A COPY OF ES&PCP AND NPDES ARE ON-SITE AND AVAILABLE AT ALL TIMES.
3. INSTALL PERIMETER CONTROLS (Sd1-NS) AND INLET PROTECTION ON ANY EXISTING INLETS (Sd2-Bg) NEAR PROPOSED GRADING, INCLUDING NECESSARY EXCAVATION REQUIRED PER PLANS AND ROCK DAMS AT CONCENTRATED AREAS (Rd #1-3).
4. INSTALL ANY ADDITIONAL MEASURES NEEDED THAT ARE NOT SHOWN ON THE PLANS AND MARK UP ES&PCP, COSTS TO BE INCIDENTAL TO THE PROJECT.
5. **NOTIFY DESIGN ENGINEER FOR REQUIRED 7-DAY INSPECTION VISIT. SEE NOTE 14 ON C-022.**
6. DO NOT BEGIN EARTH MOVING OPERATIONS UNTIL INITIAL PHASE MEASURES ARE INSTALLED AND 7-DAY INSPECTION AND ASSOCIATED DEFICIENCIES HAVE BEEN CORRECTED.
7. MAINTAIN AND CLEAN UP ALL EROSION CONTROL STRUCTURES DURING THE PROJECT DURATION.
8. CONSTRUCTION SEQUENCE IS RECOMMENDED BUT DOES NOT RELIEVE THE CONTRACTOR OF THE LIABILITY TO MEET PERMIT REQUIREMENTS.

GENERAL EROSION CONTROL NOTES

"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."

"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."

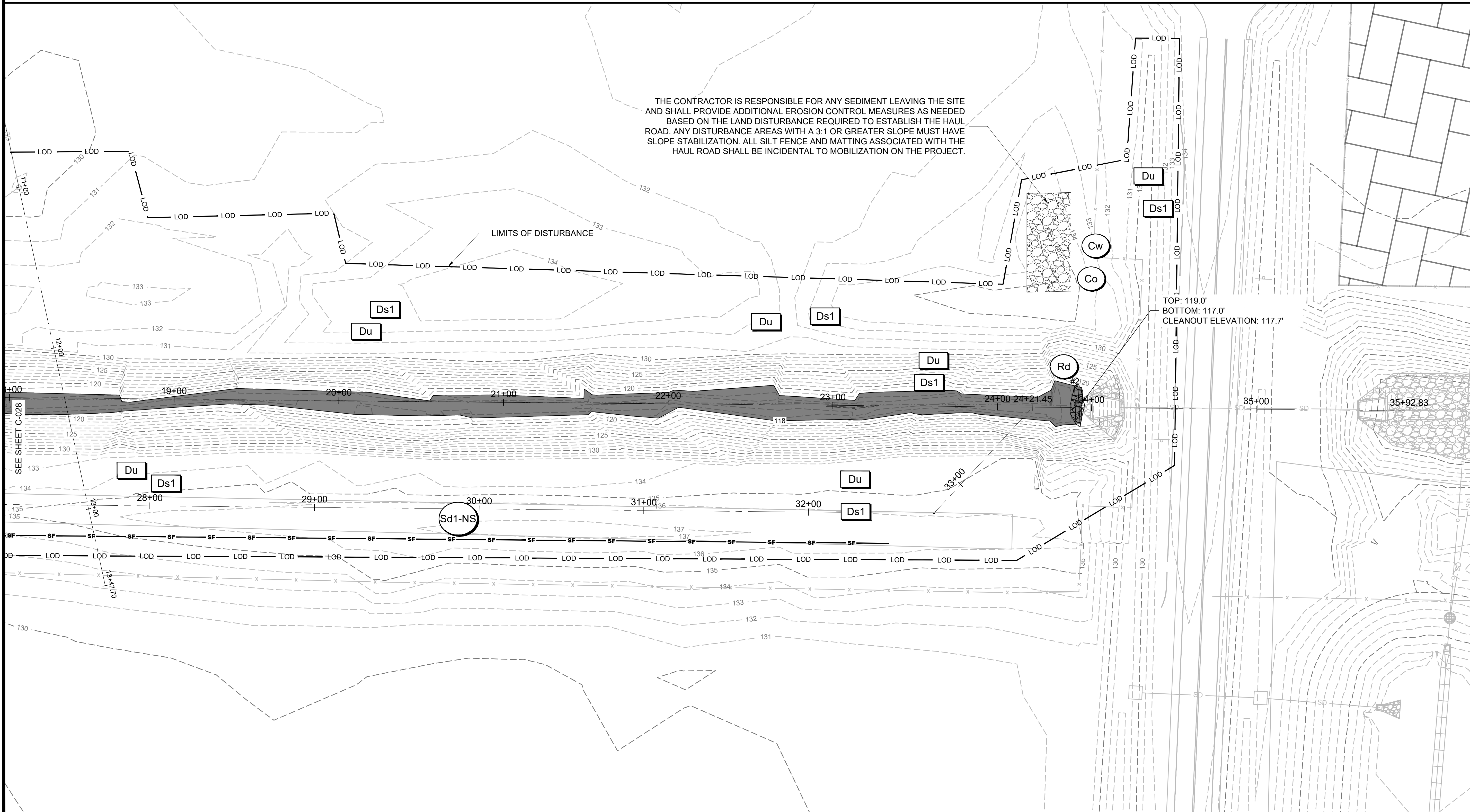
"ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING."



Mead and Hunt, Inc.
5955 Core Road, Suite 515
North Charleston, SC 29406
phone: 843-486-8330
meadhunt.com



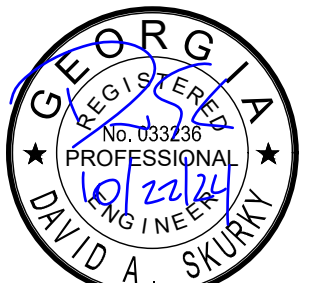
© Copyright 2022 Mead & Hunt, Inc. This document, or any portion thereof, shall not be duplicated, disclosed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt shall not be responsible for any unauthorized use of, or alteration to these documents.



**AUGUSTA REGIONAL AIRPORT
SOUTHEAST DRAINAGE DITCH
ENCLOSURE PH II**

1501 AVIATION WAY
AUGUSTA, GA 30906-9620

ISSUED FOR BID



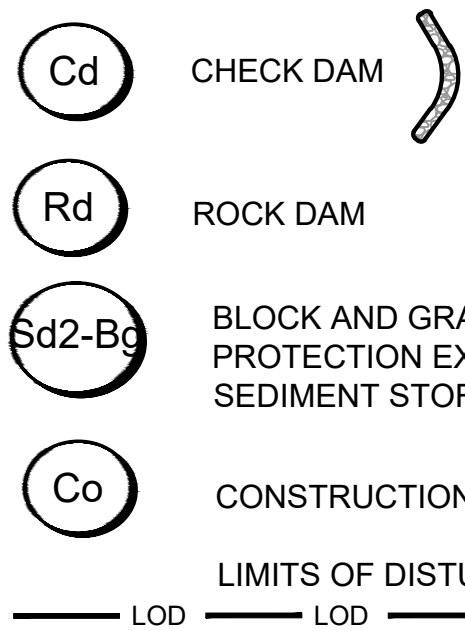
GSWCC LEVEL II DESIGN
PROFESSIONAL
CERTIFICATION # 0000045842
EXP. 10/01/2025

AGS:
M&H NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: CMJ
DRAWN BY: HCA
CHECKED BY: AKM
DO NOT SCALE DRAWINGS

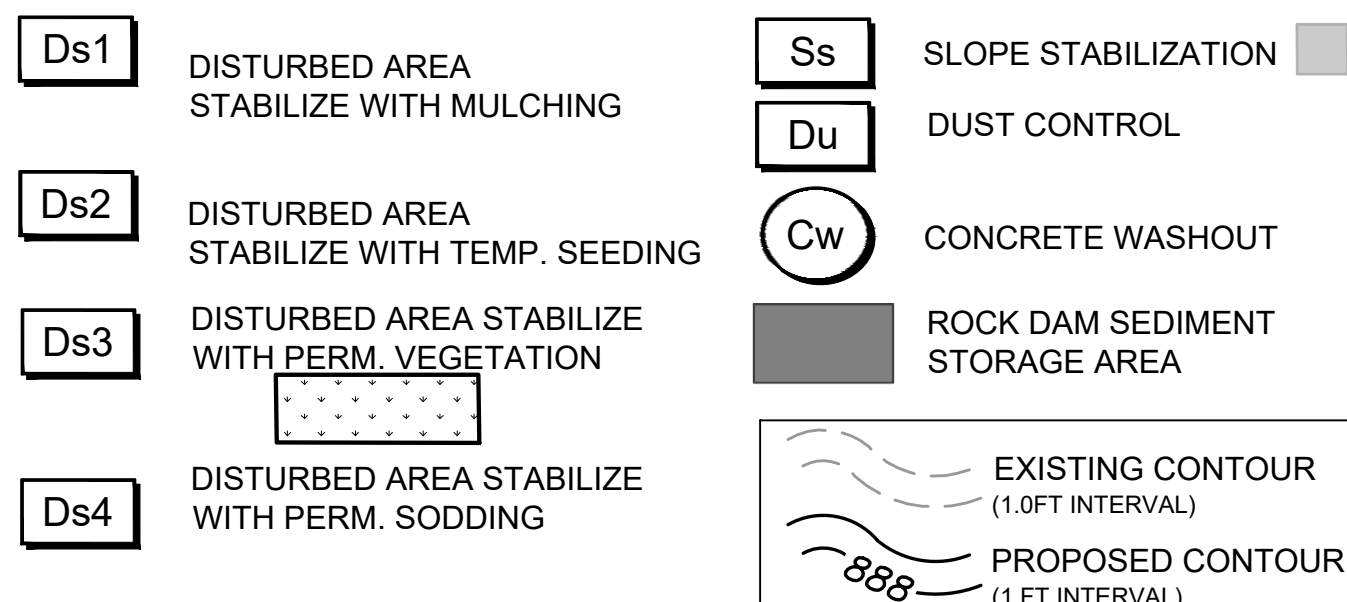
SHEET CONTENTS
EROSION, SEDIMENT,
& POLLUTION
CONTROL PLAN-
INITIAL PHASE

SHEET NO.

C-029



EROSION CONTROL LEGEND



ES&PCP SEQUENCE - GRADING PHASE

1. MAINTAIN CONSTRUCTION EXIT AND PERIMETER CONTROLS.
2. BEGIN EARTHMOVING OPERATIONS.
3. ADD Cd-S IN NEW CHANNELS.
4. INSTALL SLOPE STABILIZATION (Ss) ON ALL FILL SLOPES.
5. INSTALL INLET SEDIMENT TRAPS (Sd2-) AND EXCAVATED INLET SEDIMENT TRAPS (Sd2-Bg EXC.)
6. AT THE END OF EACH DAY, STABILIZE ANY AREAS THAT WILL NOT BE RE-DISTURBED WITHIN 14 DAYS WITH TEMPORARY MULCHING OR TEMPORARY VEGETATION (Ds1, Ds2). ANY SLOPES GREATER THAN 5FT SHALL RECEIVE MATTING AND GRASSING.
7. APPLY SLOPE STABILIZATION (Ss) ON SLOPES 3:1 OR STEEPER.
8. APPLY DUST CONTROL (Du) WHEN WARRANTED.
9. MAINTAIN AND CLEAN UP ALL EROSION CONTROL STRUCTURES DURING THE PROJECT DURATION.
10. PROVIDE ADDITIONAL MEASURES AS NECESSARY TO PREVENT THE ESCAPE OF SEDIMENT FROM THE SITE.
11. NOTIFY DESIGN ENGINEER IF ANY SEDIMENT EXITS THE PROJECT LIMITS.
12. CONSTRUCTION SEQUENCE IS RECOMMENDED BUT DOES NOT RELIEVE THE CONTRACTOR OF THE LIABILITY TO MEET PERMIT REQUIREMENTS.

GENERAL EROSION CONTROL NOTES

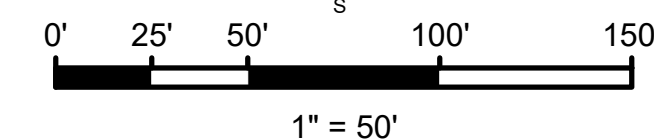
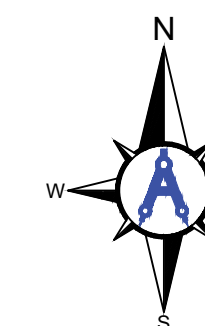
"THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES."

"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."

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



Know what's below. Call before you dig.

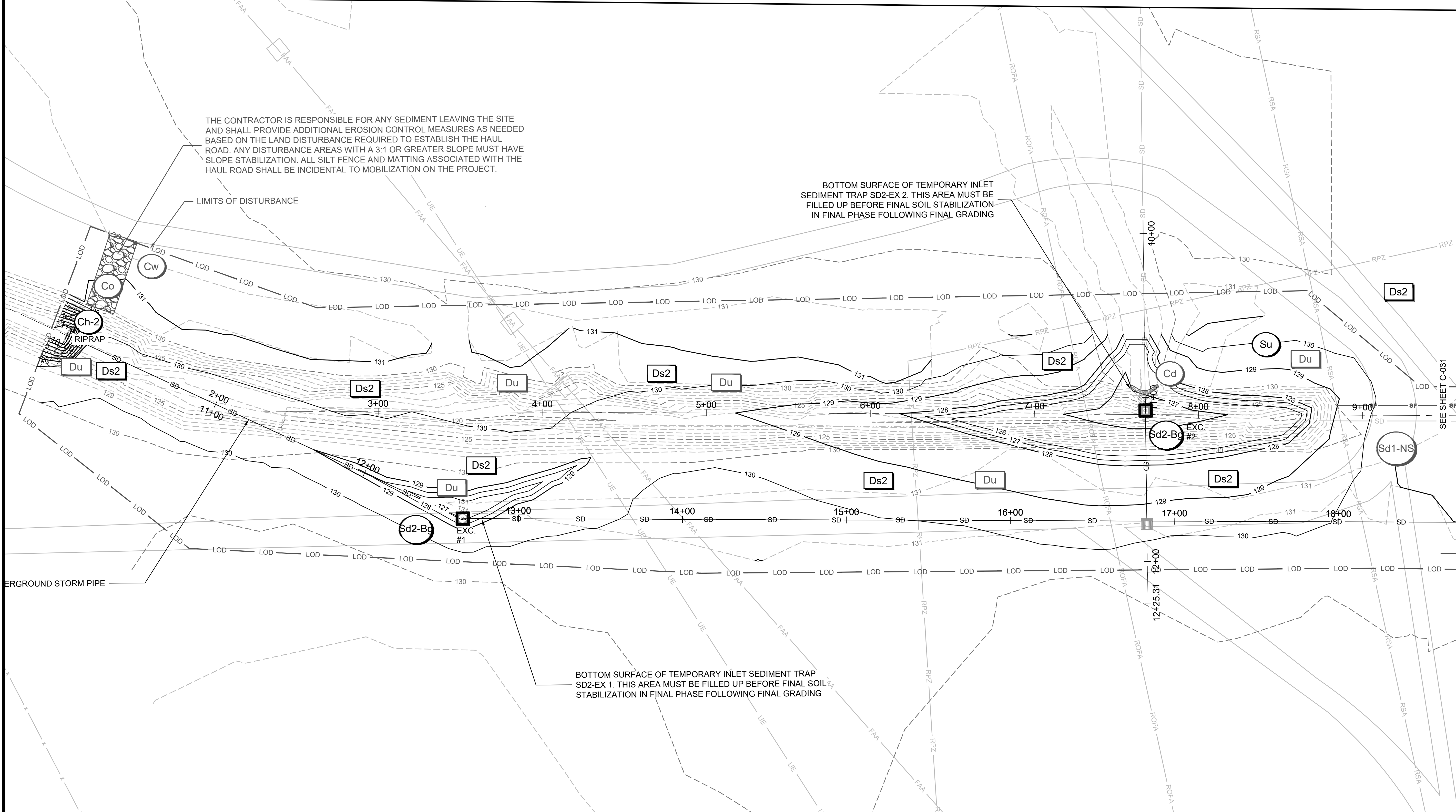


Mead & Hunt
 Mead and Hunt, Inc.
 5955 Core Road, Suite 515
 North Charleston, SC 29406
 phone: 843-486-8330
 meadhunt.com



© Copyright 2022 Mead & Hunt, Inc.
 This document, or any portion thereof, shall not be duplicated, disclosed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt shall not be responsible for any unauthorized use of, or alteration to these documents.

C:\AULICK\ENGINEERING\10_M&H - PROJECTS\1001_AGS\100122_AGS DRAINAGE DITCH EAST-WEST\2 DESIGN\2 DWG\2E_4 SHEETS\C-024.ESP\CP - GRADING PHASE.DWG 10/25/2024 9:06:35 AM



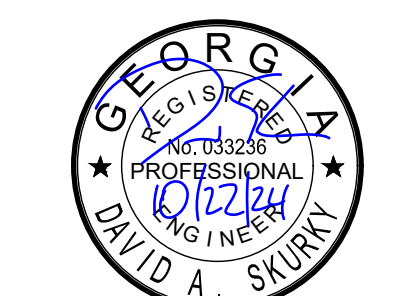
THE CONTRACTOR IS RESPONSIBLE FOR ANY SEDIMENT LEAVING THE SITE AND SHALL PROVIDE ADDITIONAL EROSION CONTROL MEASURES AS NEEDED BASED ON THE LAND DISTURBANCE REQUIRED TO ESTABLISH THE HAUL ROAD. ANY DISTURBANCE AREAS WITH A 3:1 OR GREATER SLOPE MUST HAVE SLOPE STABILIZATION. ALL SILT FENCE AND MATTING ASSOCIATED WITH THE HAUL ROAD SHALL BE INCIDENTAL TO MOBILIZATION ON THE PROJECT.

BOTTOM SURFACE OF TEMPORARY INLET SEDIMENT TRAP SD2-EX 2. THIS AREA MUST BE FILLED UP BEFORE FINAL SOIL STABILIZATION IN FINAL PHASE FOLLOWING FINAL GRADING

BOTTOM SURFACE OF TEMPORARY INLET SEDIMENT TRAP SD2-EX 1. THIS AREA MUST BE FILLED UP BEFORE FINAL SOIL STABILIZATION IN FINAL PHASE FOLLOWING FINAL GRADING

**AUGUSTA REGIONAL AIRPORT
 SOUTHEAST DRAINAGE DITCH
 ENCLOSURE PH II**
 1501 AVIATION WAY
 AUGUSTA, GA 30906-9620

ISSUED FOR BID



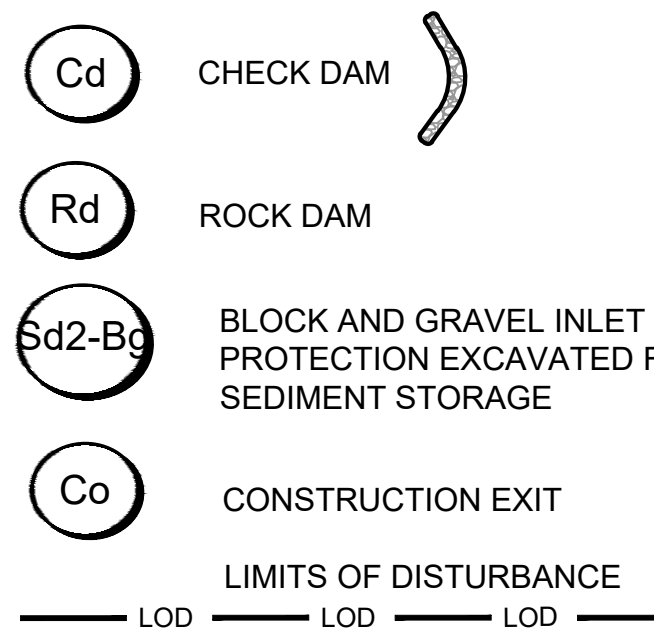
GSWCC LEVEL II DESIGN PROFESSIONAL CERTIFICATION # 0000045842 EXP. 10/01/2025

AG: M&H NO.: 0119700-210463.01
 DATE: OCTOBER 22, 2024
 DESIGNED BY: CMJ
 DRAWN BY: HCA
 CHECKED BY: AKM
 DO NOT SCALE DRAWINGS

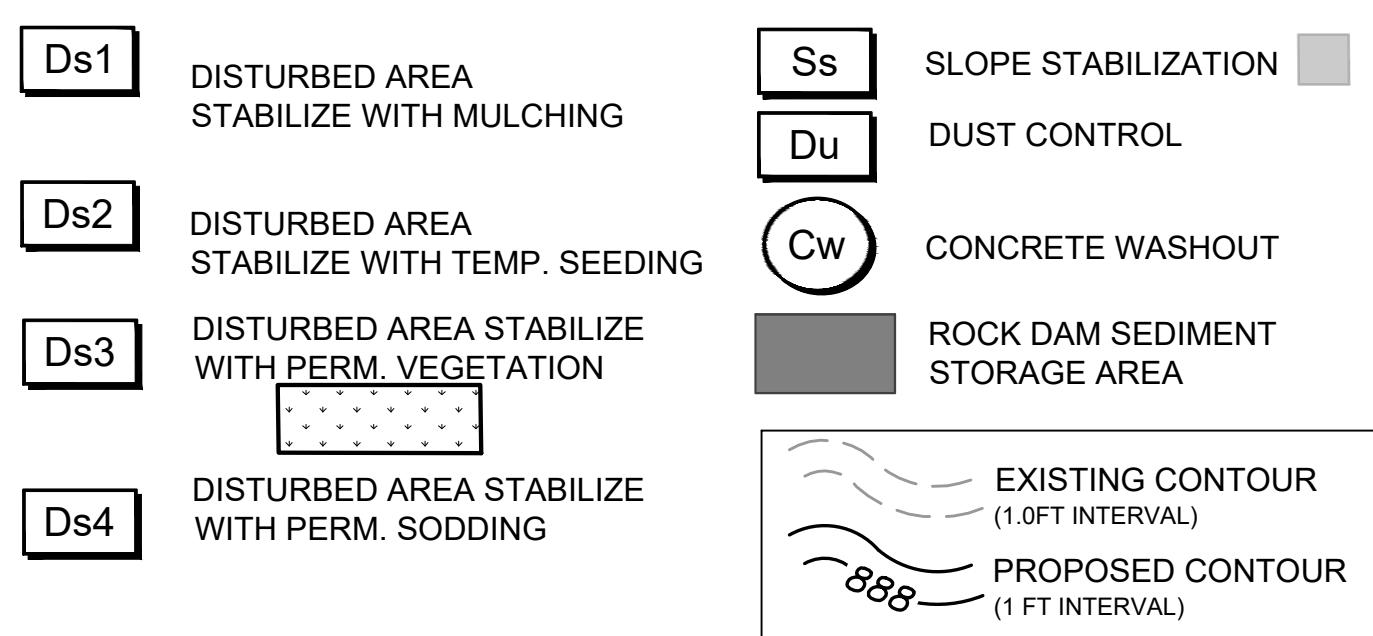
SHEET CONTENTS
 EROSION, SEDIMENT, & POLLUTION CONTROL PLAN-GRADING PHASE

SHEET NO.

C-030



EROSION CONTROL LEGEND



ES&PCP SEQUENCE - GRADING PHASE

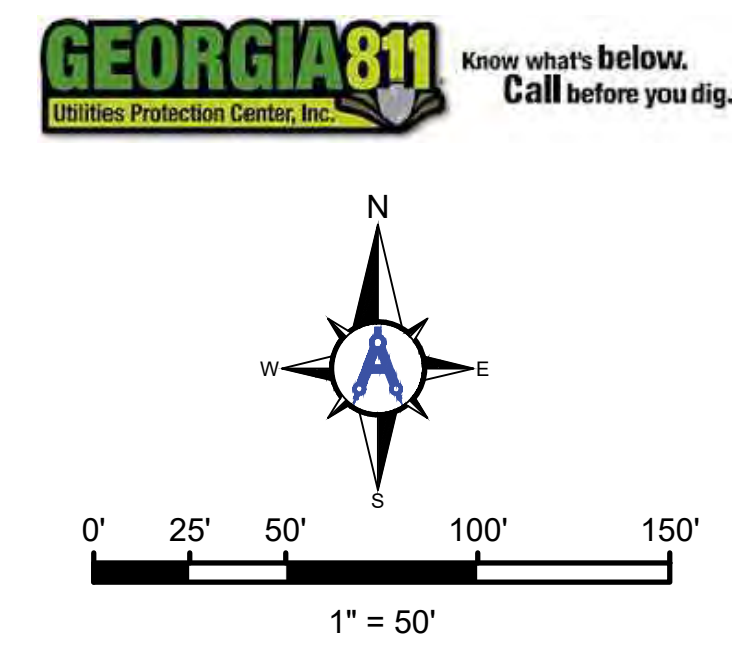
1. MAINTAIN CONSTRUCTION EXIT AND PERIMETER CONTROLS.
2. BEGIN EARTHMOVING OPERATIONS.
3. ADD Cd-S IN NEW CHANNELS.
4. INSTALL SLOPE STABILIZATION (Ss) ON ALL FILL SLOPES.
5. INSTALL INLET SEDIMENT TRAPS (Sd2) AND EXCAVATED INLET SEDIMENT TRAPS (Sd2-Bg EXC.)
6. AT THE END OF EACH DAY, STABILIZE ANY AREAS THAT WILL NOT BE RE-DISTURBED WITHIN 14 DAYS WITH TEMPORARY MULCHING OR TEMPORARY VEGETATION (Ds1, Ds2). ANY SLOPES GREATER THAN 5FT SHALL RECEIVE MATTING AND GRASSING.
7. APPLY SLOPE STABILIZATION (Ss) ON SLOPES 3:1 OR STEEPER.
8. APPLY DUST CONTROL (Du) WHEN WARRANTED.
9. MAINTAIN AND CLEAN UP ALL EROSION CONTROL STRUCTURES DURING THE PROJECT DURATION.
10. PROVIDE ADDITIONAL MEASURES AS NECESSARY TO PREVENT THE ESCAPE OF SEDIMENT FROM THE SITE.
11. NOTIFY DESIGN ENGINEER IF ANY SEDIMENT EXITS THE PROJECT LIMITS.
12. CONSTRUCTION SEQUENCE IS RECOMMENDED BUT DOES NOT RELIEVE THE CONTRACTOR OF THE LIABILITY TO MEET PERMIT REQUIREMENTS.

GENERAL EROSION CONTROL NOTES

"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."

"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."

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

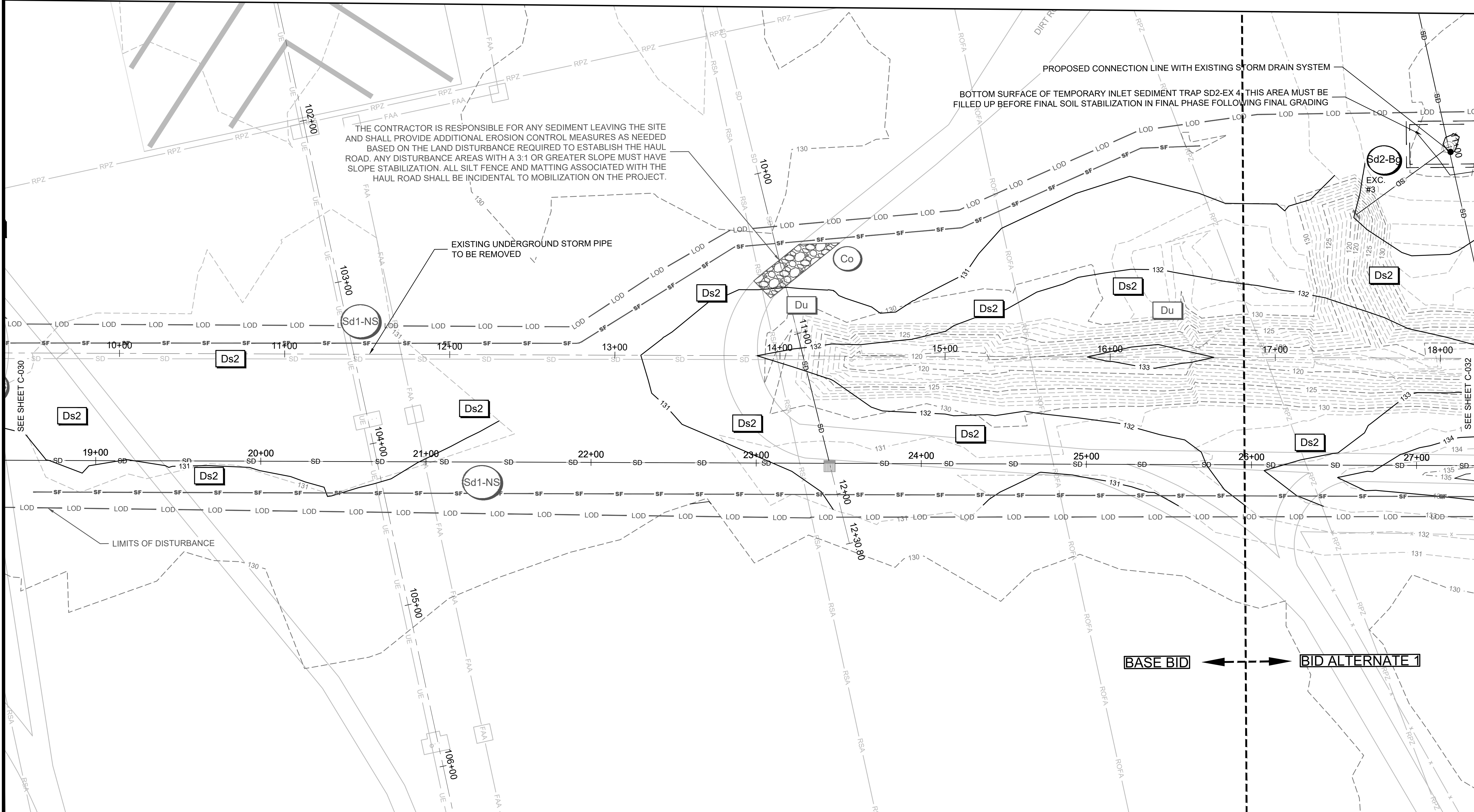


Mead & Hunt
 Mead and Hunt, Inc.
 5955 Core Road, Suite 515
 North Charleston, SC 29406
 phone: 843-486-8330
 meadhunt.com

AGS AUGUSTA
 REGIONAL AIRPORT

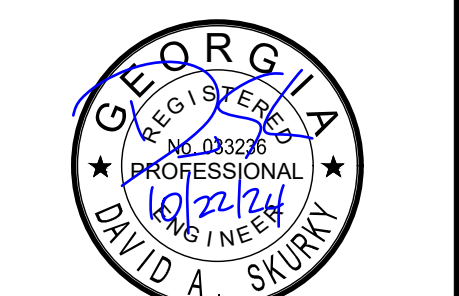
AULICK ENGINEERING LLC
 STORMWATER • HYDRAULICS • EROSION CONTROL
 SURVEYING & CIVIL SITE • CONSTRUCTION SERVICES

© Copyright 2022 Mead & Hunt, Inc. This document, or any portion thereof, shall not be duplicated, disclosed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt shall not be responsible for any unauthorized use of, or alteration to these documents.



AUGUSTA REGIONAL AIRPORT
SOUTHEAST DRAINAGE DITCH
ENCLOSURE PH II
 1501 AVIATION WAY
 AUGUSTA, GA 30906-9620

ISSUED FOR BID



GSWCC LEVEL II DESIGN
 PROFESSIONAL
 CERTIFICATION # 0000045842
 EXP. 10/01/2025

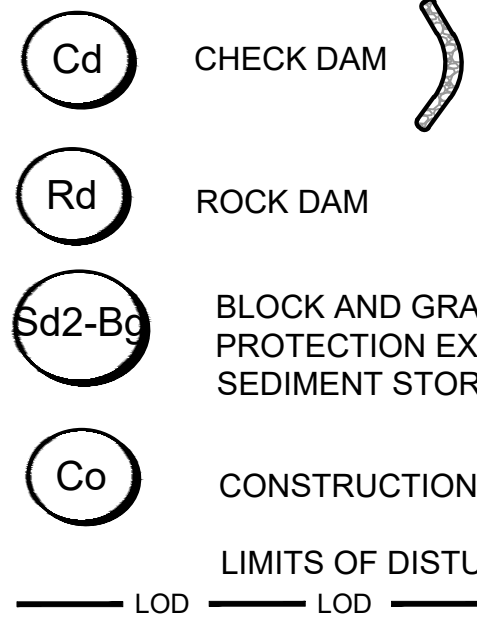
AGS:
 M&H NO.: 0119700-210463.01
 DATE: OCTOBER 22, 2024
 DESIGNED BY: CMJ
 DRAWN BY: HCA
 CHECKED BY: AKM
 DO NOT SCALE DRAWINGS

SHEET CONTENTS
 EROSION, SEDIMENT,
 & POLLUTION
 CONTROL PLAN-
 GRADING PHASE

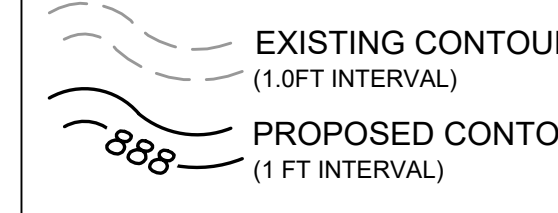
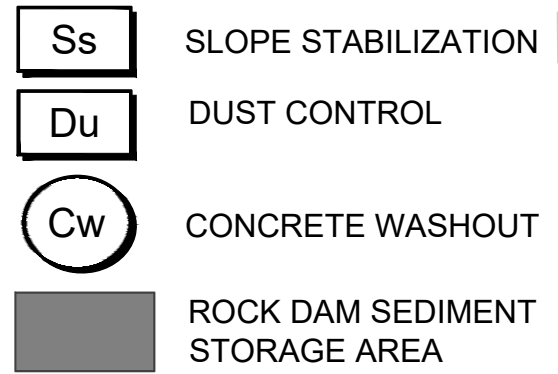
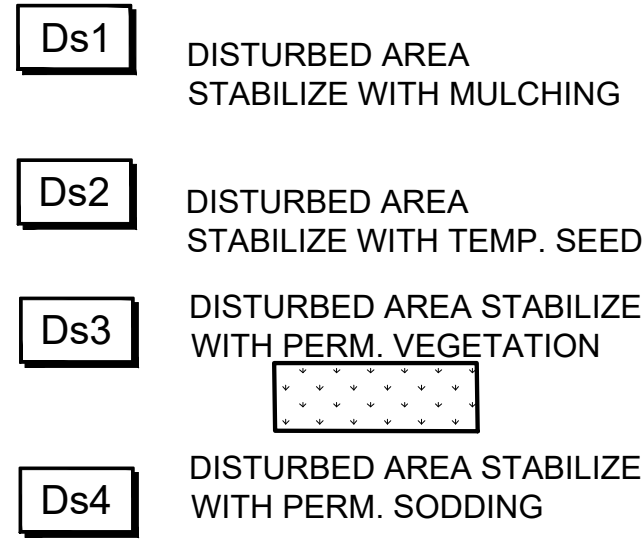
SHEET NO.

C-031

C:\AULICK\ENGINEERING\10_M&H - PROJECTS\1001_AGS\100122_AGS DRAINAGE DITCH EAST-WEST\2 DESIGN\2E DWG\2E_4 SHEETS\C-024 ESPCP - GRADING PHASE.DWG 10/25/2024 9:06:49 AM



EROSION CONTROL LEGEND



ES&PCP SEQUENCE - GRADING PHASE

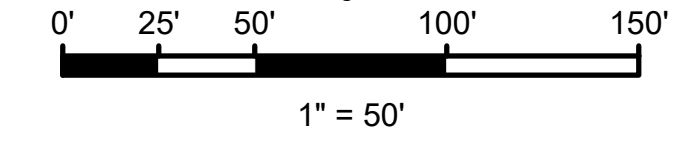
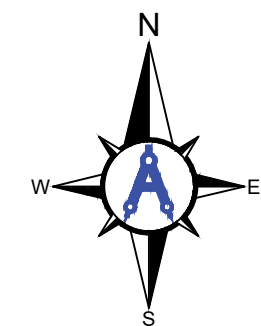
1. MAINTAIN CONSTRUCTION EXIT AND PERIMETER CONTROLS.
2. BEGIN EARTHMOVING OPERATIONS.
3. ADD Cd-S IN NEW CHANNELS.
4. INSTALL SLOPE STABILIZATION (Ss) ON ALL FILL SLOPES.
5. INSTALL INLET SEDIMENT TRAPS (Sd2-) AND EXCAVATED INLET SEDIMENT TRAPS (Sd2-Bg EXC.)
6. AT THE END OF EACH DAY, STABILIZE ANY AREAS THAT WILL NOT BE RE-DISTURBED WITHIN 14 DAYS WITH TEMPORARY MULCHING OR TEMPORARY VEGETATION (Ds1, Ds2). ANY SLOPES GREATER THAN 5FT SHALL RECEIVE MATTING AND GRASSING.
7. APPLY SLOPE STABILIZATION (Ss) ON SLOPES 3:1 OR STEEPER.
8. APPLY DUST CONTROL (Du) WHEN WARRANTED.
9. MAINTAIN AND CLEAN UP ALL EROSION CONTROL STRUCTURES DURING THE PROJECT DURATION.
10. PROVIDE ADDITIONAL MEASURES AS NECESSARY TO PREVENT THE ESCAPE OF SEDIMENT FROM THE SITE.
11. NOTIFY DESIGN ENGINEER IF ANY SEDIMENT EXITS THE PROJECT LIMITS.
12. CONSTRUCTION SEQUENCE IS RECOMMENDED BUT DOES NOT RELIEVE THE CONTRACTOR OF THE LIABILITY TO MEET PERMIT REQUIREMENTS.

GENERAL EROSION CONTROL NOTES

"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."

"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."

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

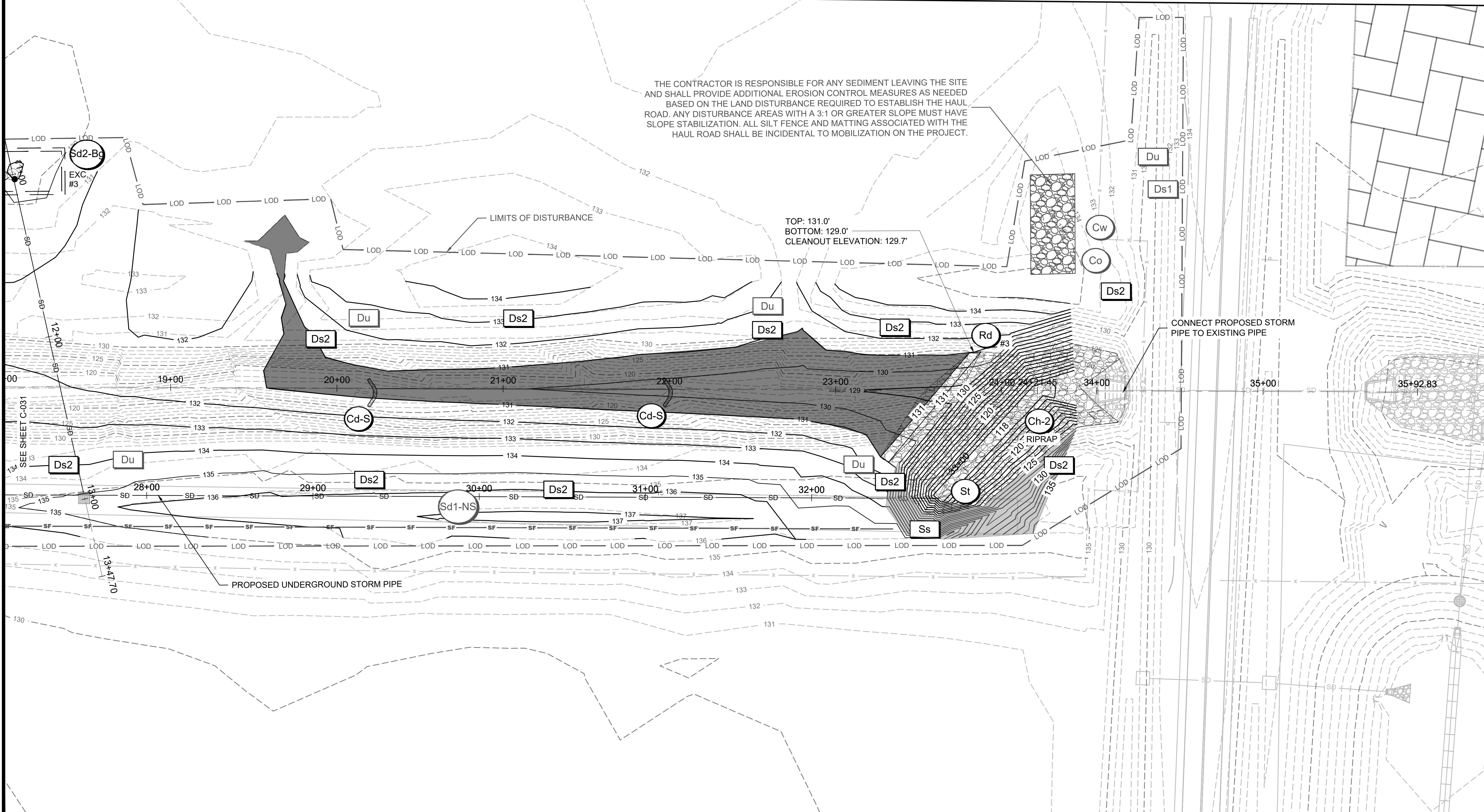


Mead & Hunt
 Mead and Hunt, Inc.
 5955 Core Road, Suite 515
 North Charleston, SC 29406
 phone: 843-486-8330
 meadhunt.com

AGS AUGUSTA REGIONAL AIRPORT
AULICK ENGINEERING LLC
 STORMWATER | HYDRAULICS | EROSION CONTROL
 SURVEYING & CIVIL SITE | CONSTRUCTION SERVICES

© Copyright 2022 Mead & Hunt, Inc. This document, or any portion thereof, shall not be duplicated, disclosed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt shall not be responsible for any unauthorized use of, or alteration to these documents.

THE CONTRACTOR IS RESPONSIBLE FOR ANY SEDIMENT LEAVING THE SITE AND SHALL PROVIDE ADDITIONAL EROSION CONTROL MEASURES AS NEEDED BASED ON THE LAND DISTURBANCE REQUIRED TO ESTABLISH THE HAUL ROAD. ANY DISTURBANCE AREAS WITH A 3:1 OR GREATER SLOPE MUST HAVE SLOPE STABILIZATION. ALL SILT FENCE AND MATTING ASSOCIATED WITH THE HAUL ROAD SHALL BE INCIDENTAL TO MOBILIZATION ON THE PROJECT.



**AUGUSTA REGIONAL AIRPORT
 SOUTHEAST DRAINAGE DITCH
 ENCLOSURE PH II
 1501 AVIATION WAY
 AUGUSTA, GA 30906-9620**

ISSUED FOR BID

GSWCC LEVEL II DESIGN
 PROFESSIONAL CERTIFICATION # 0000045842
 EXP. 10/01/2025

AGS:
 M&H NO.: 0119700-210463.01
 DATE: OCTOBER 22, 2024
 DESIGNED BY: CMJ
 DRAWN BY: HCA
 CHECKED BY: AKM
 DO NOT SCALE DRAWINGS

SHEET CONTENTS
 EROSION, SEDIMENT,
 & POLLUTION
 CONTROL PLAN-
 GRADING PHASE

SHEET NO.
C-032

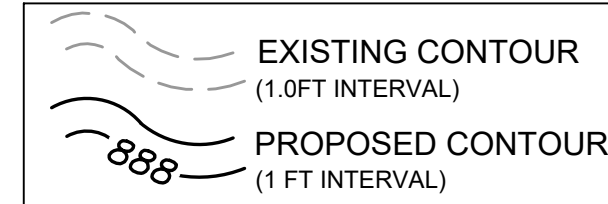
C:\AULICK\ENGINEERING\10_M&H - PROJECTS\1001_AGS100122_AGS DRAINAGE DITCH EAST-WEST\2 DESIGN\2 DWG\2E_4 SHEETS\C-024 ESPCP - GRADING PHASE.DWG 10/25/2024 9:07:03 AM

- Cd** CHECK DAM
- Rd** ROCK DAM
- Sd2-Bg** BLOCK AND GRAVEL INLET PROTECTION EXCAVATED FOR SEDIMENT STORAGE
- Co** CONSTRUCTION EXIT
- LOD — LOD — LOD —

EROSION CONTROL LEGEND

- Ds1** DISTURBED AREA STABILIZE WITH MULCHING
- Ds2** DISTURBED AREA STABILIZE WITH TEMP. SEEDING
- Ds3** DISTURBED AREA STABILIZE WITH PERM. VEGETATION
- Ds4** DISTURBED AREA STABILIZE WITH PERM. SODDING

- Ss** SLOPE STABILIZATION
- Du** DUST CONTROL
- Cw** CONCRETE WASHOUT
- ROCK DAM SEDIMENT STORAGE AREA



ES&PCP SEQUENCE - FINAL PHASE

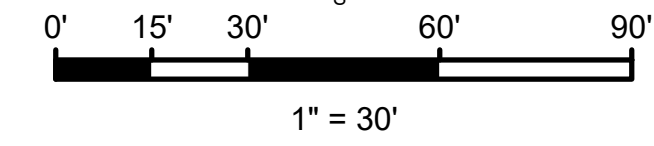
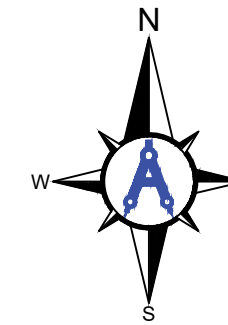
1. MAINTAIN ALL BMPs FROM PREVIOUS PHASES AS SHOWN ON PLANS.
2. NOTIFY DESIGN ENGINEER IF ANY SEDIMENT EXITS THE PROJECT LIMITS.
3. PRIOR TO REMOVING ANY BMPs, MAINTAIN BMPs AND REMOVE SEDIMENT TO HAUL OFFSITE SO THAT WHEN BMPs ARE REMOVED, NO ADDITIONAL SEDIMENT WILL ESCAPE DOWNSTREAM.
4. REMOVE ALL BMPs THAT ARE IN AREAS THAT HAVE UNDERGONE FINAL STABILIZATION. KEEP BMPs IN PLACE WHERE UPSTREAM AREAS DO NOT HAVE 70% COVERAGE IN 100% OF THE AREA. REMOVE THESE BMPs ONLY AFTER THE AREAS HAVE REACHED FINAL STABILIZATION.
5. MAINTAIN AND CLEAN UP ALL EROSION CONTROL STRUCTURES UNTIL FINAL STABILIZATION. INSTALL ADDITIONAL MEASURES AS NEEDED.
8. STABILIZE AREAS WITH PERMANENT VEGETATION (Ds3).
9. INSTALL SOD (Ds4) AT NEW INLETS.
10. ONCE SITE HAS REACHED FINAL STABILIZATION, NOTIFY ENGINEER AND AIRPORT FOR INSPECTION PRIOR TO FILING THE NOT.
11. CONSTRUCTION SEQUENCE IS RECOMMENDED BUT DOES NOT RELIEVE THE CONTRACTOR OF THE LIABILITY TO MEET PERMIT REQUIREMENTS.

GENERAL EROSION CONTROL NOTES

"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."

"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."

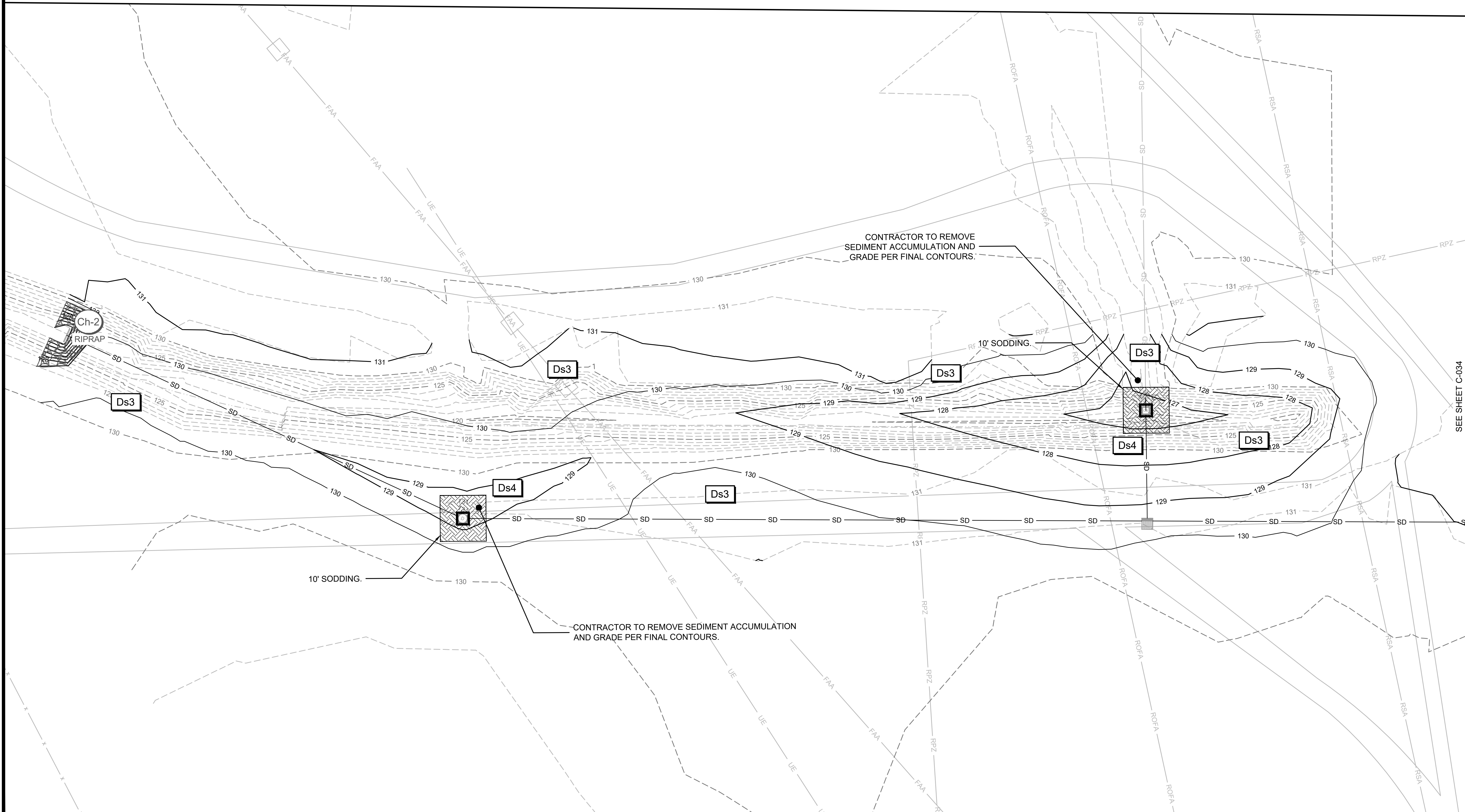
"ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING."



Mead and Hunt, Inc.
5955 Core Road, Suite 515
North Charleston, SC 29406
phone: 843-486-8330
meadhunt.com



© Copyright 2022 Mead & Hunt, Inc.
This document, or any portion thereof, shall not be duplicated, disclosed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt shall not be responsible for any unauthorized use of, or alteration to these documents.



**AUGUSTA REGIONAL AIRPORT
SOUTHEAST DRAINAGE DITCH
ENCLOSURE PH II
1501 AVIATION WAY
AUGUSTA, GA 30906-9620**

ISSUED
ISSUED FOR BID



GSWCC LEVEL II DESIGN
PROFESSIONAL
CERTIFICATION # 0000045842
EXP. 10/01/2025

AG:
M&H NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: CMJ
DRAWN BY: HCA
CHECKED BY: AKM
DO NOT SCALE DRAWINGS

SHEET CONTENTS
EROSION, SEDIMENT,
& POLLUTION
CONTROL PLAN- FINAL
PHASE

SHEET NO.

C-033

EROSION CONTROL LEGEND			
Cd	CHECK DAM	Ds1	DISTURBED AREA STABILIZE WITH MULCHING
Rd	ROCK DAM	Ds2	DISTURBED AREA STABILIZE WITH TEMP. SEEDING
Sd2-Bc	BLOCK AND GRAVEL INLET PROTECTION EXCAVATED FOR SEDIMENT STORAGE	Ds3	DISTURBED AREA STABILIZE WITH PERM. VEGETATION
Co	CONSTRUCTION EXIT	Ds4	DISTURBED AREA STABILIZE WITH PERM. SODDING
LIMITS OF DISTURBANCE LOD LOD LOD		Ss	SLOPE STABILIZATION
		Du	DUST CONTROL
		Cw	CONCRETE WASHOUT
			ROCK DAM SEDIMENT STORAGE AREA
			EXISTING CONTOUR (1.0 FT INTERVAL)
			PROPOSED CONTOUR (1 FT INTERVAL)

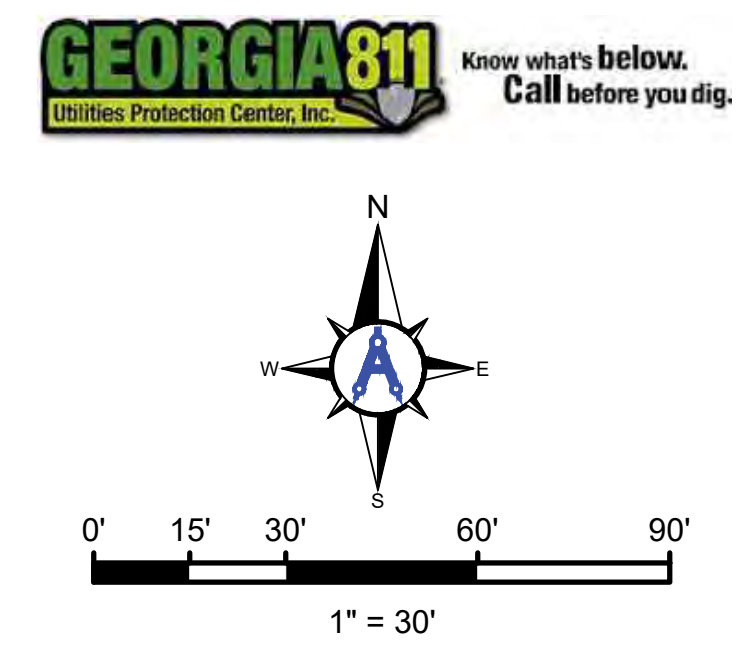
- ES&PCP SEQUENCE - FINAL PHASE**
1. MAINTAIN ALL BMPs FROM PREVIOUS PHASES AS SHOWN ON PLANS.
 2. NOTIFY DESIGN ENGINEER IF ANY SEDIMENT EXITS THE PROJECT LIMITS.
 3. PRIOR TO REMOVING ANY BMPs, MAINTAIN BMPs AND REMOVE SEDIMENT TO HAUL OFFSITE SO THAT WHEN BMPs ARE REMOVED, NO ADDITIONAL SEDIMENT WILL ESCAPE DOWNSTREAM.
 4. REMOVE ALL BMPs THAT ARE IN AREAS THAT HAVE UNDERGONE FINAL STABILIZATION. KEEP BMPs IN PLACE WHERE UPSTREAM AREAS DO NOT HAVE 70% COVERAGE IN 100% OF THE AREA. REMOVE THESE BMPs ONLY AFTER THE AREAS HAVE REACHED FINAL STABILIZATION.
 5. MAINTAIN AND CLEAN UP ALL EROSION CONTROL STRUCTURES UNTIL FINAL STABILIZATION. INSTALL ADDITIONAL MEASURES AS NEEDED.
 6. STABILIZE AREAS WITH PERMANENT VEGETATION (Ds3).
 7. INSTALL SOD (Ds4) AT NEW INLETS.
 8. ONCE SITE HAS REACHED FINAL STABILIZATION, NOTIFY ENGINEER AND AIRPORT FOR INSPECTION PRIOR TO FILING THE NOT.
 9. CONSTRUCTION SEQUENCE IS RECOMMENDED BUT DOES NOT RELIEVE THE CONTRACTOR OF THE LIABILITY TO MEET PERMIT REQUIREMENTS.

GENERAL EROSION CONTROL NOTES

"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."

"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."

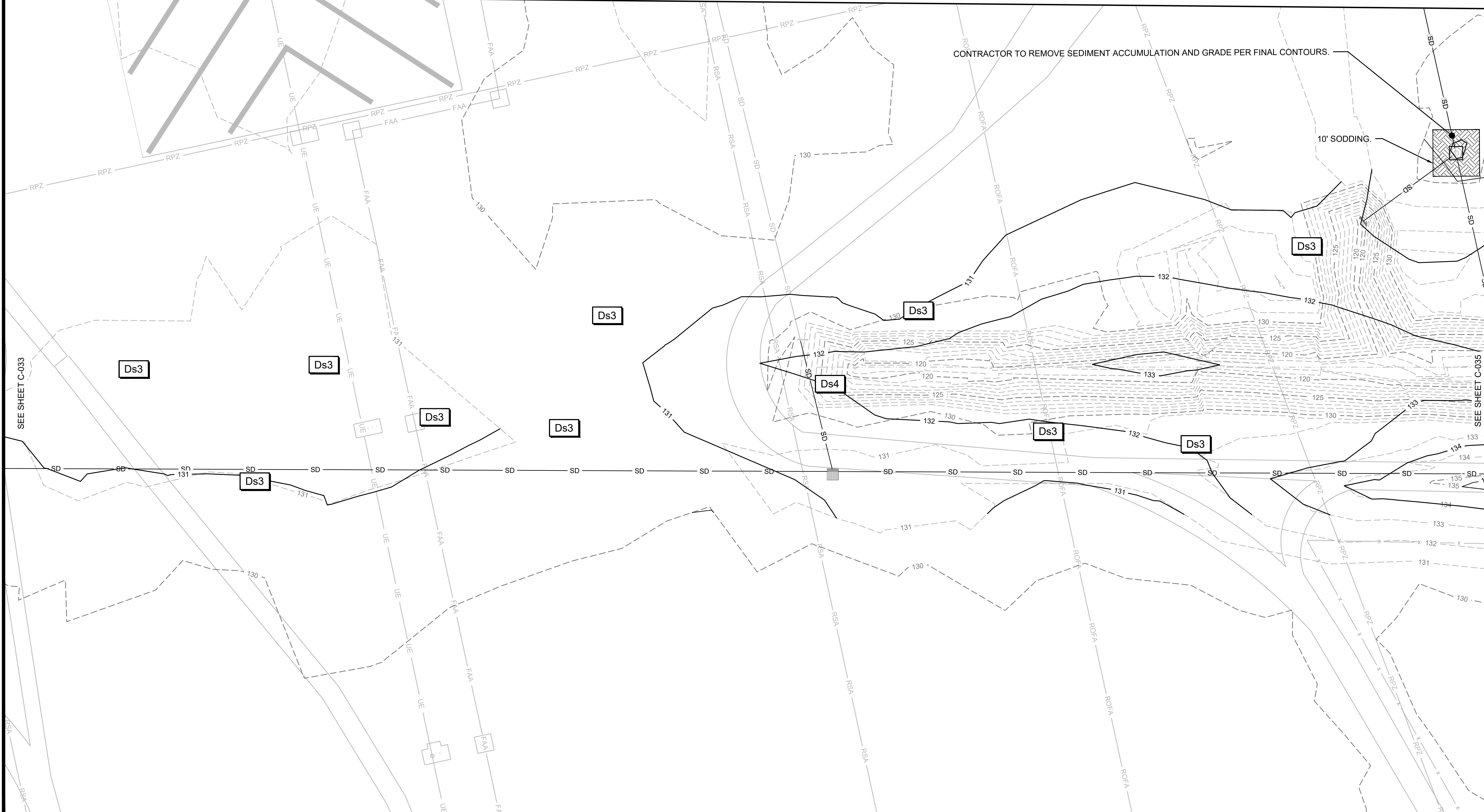
"ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING."



Mead & Hunt
 Mead and Hunt, Inc.
 5955 Core Road, Suite 515
 North Charleston, SC 29406
 phone: 843-486-8330
 meadhunt.com

AGS AUGUSTA REGIONAL AIRPORT

AULICK ENGINEERING LLC
 STORMWATER • HYDRAULICS • EROSION CONTROL
 AIRFIELD & CIVIL SITE • CONSTRUCTION SERVICES



© Copyright 2022 Mead & Hunt, Inc.
 This document, or any portion thereof, shall not be duplicated, disclosed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt shall not be responsible for any unauthorized use of, or alteration to these documents.

**AUGUSTA REGIONAL AIRPORT
 SOUTHEAST DRAINAGE DITCH
 ENCLOSURE PH II**
 1501 AVIATION WAY
 AUGUSTA, GA 30906-9620

ISSUED FOR BID

GSWCC LEVEL II DESIGN
 PROFESSIONAL
 CERTIFICATION # 0000045842
 EXP. 10/01/2025

AG: 0119700-210463.01
 M&H NO.: 0119700-210463.01
 DATE: OCTOBER 22, 2024
 DESIGNED BY: CMJ
 DRAWN BY: HCA
 CHECKED BY: AKM
 DO NOT SCALE DRAWINGS

SHEET CONTENTS
 EROSION, SEDIMENT,
 & POLLUTION
 CONTROL PLAN- FINAL
 PHASE

SHEET NO.
C-034

C:\AULICK\ENGINEERING\10_M&H - PROJECTS\1001_AGS\100122_AGS DRAINAGE DITCH EAST-WEST\2 DESIGN\2E DWG\2E_4 SHEETS\C-027 ESPCP - FINAL PHASE.DWG
 10/25/2024 9:07:46 AM

Cd CHECK DAM

Rd ROCK DAM

Sd2-Bg BLOCK AND GRAVEL INLET PROTECTION EXCAVATED FOR SEDIMENT STORAGE

Co CONSTRUCTION EXIT

LIMITS OF DISTURBANCE
LOD LOD LOD

EROSION CONTROL LEGEND

Ds1 DISTURBED AREA STABILIZE WITH MULCHING

Ds2 DISTURBED AREA STABILIZE WITH TEMP. SEEDING

Ds3 DISTURBED AREA STABILIZE WITH PERM. VEGETATION

Ds4 DISTURBED AREA STABILIZE WITH PERM. SODDING

Ss SLOPE STABILIZATION

Du DUST CONTROL

Cw CONCRETE WASHOUT

ROCK DAM SEDIMENT STORAGE AREA

EXISTING CONTOUR (1.0FT INTERVAL)

PROPOSED CONTOUR (1 FT INTERVAL)

ES&PCP SEQUENCE - FINAL PHASE

1. MAINTAIN ALL BMPs FROM PREVIOUS PHASES AS SHOWN ON PLANS.
2. NOTIFY DESIGN ENGINEER IF ANY SEDIMENT EXITS THE PROJECT LIMITS.
3. PRIOR TO REMOVING ANY BMPs, MAINTAIN BMPs AND REMOVE SEDIMENT TO HAUL OFFSITE SO THAT WHEN BMPs ARE REMOVED, NO ADDITIONAL SEDIMENT WILL ESCAPE DOWNSTREAM.
4. REMOVE ALL BMPs THAT ARE IN AREAS THAT HAVE UNDERGONE FINAL STABILIZATION. KEEP BMPs IN PLACE WHERE UPSTREAM AREAS DO NOT HAVE 70% COVERAGE IN 100% OF THE AREA. REMOVE THESE BMPs ONLY AFTER THE AREAS HAVE REACHED FINAL STABILIZATION.
5. MAINTAIN AND CLEAN UP ALL EROSION CONTROL STRUCTURES UNTIL FINAL STABILIZATION. INSTALL ADDITIONAL MEASURES AS NEEDED.
6. STABILIZE AREAS WITH PERMANENT VEGETATION (Ds3).
7. INSTALL SOD (Ds4) AT NEW INLETS.
8. ONCE SITE HAS REACHED FINAL STABILIZATION, NOTIFY ENGINEER AND AIRPORT FOR INSPECTION PRIOR TO FILING THE NOT.
9. CONSTRUCTION SEQUENCE IS RECOMMENDED BUT DOES NOT RELIEVE THE CONTRACTOR OF THE LIABILITY TO MEET PERMIT REQUIREMENTS.

GENERAL EROSION CONTROL NOTES

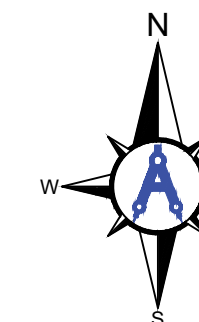
"THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES."

"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."

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



Know what's below. Call before you dig.



0' 15' 30' 60' 90'
1" = 30'



Mead and Hunt, Inc.
5955 Core Road, Suite 515
North Charleston, SC 29406
phone: 843-486-8330
meadhunt.com

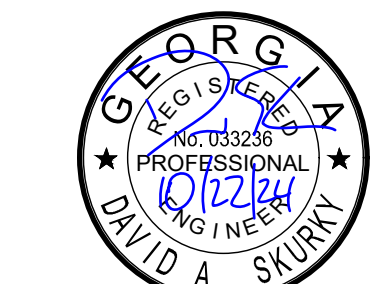


© Copyright 2022 Mead & Hunt, Inc.
This document, or any portion thereof, shall not be duplicated, disclosed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt shall not be responsible for any unauthorized use of, or alteration to these documents.

AUGUSTA REGIONAL AIRPORT
SOUTHEAST DRAINAGE DITCH
ENCLOSURE PH II

1501 AVIATION WAY
AUGUSTA, GA 30906-9620

ISSUED
ISSUED FOR BID



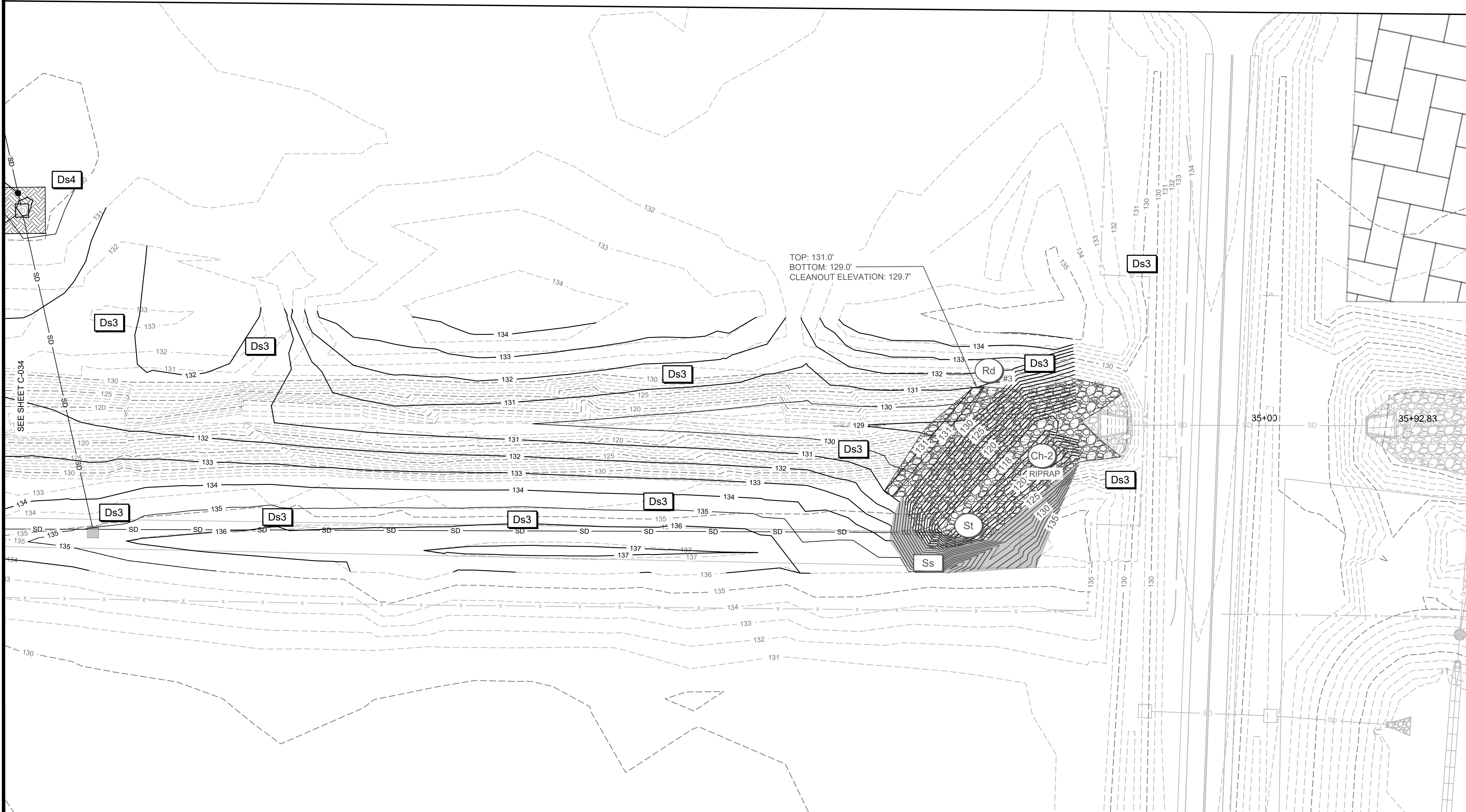
GSWCC LEVEL II DESIGN
PROFESSIONAL
CERTIFICATION # 0000045842
EXP. 10/01/2025

AG: M&H NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: CMJ
DRAWN BY: HCA
CHECKED BY: AKM
DO NOT SCALE DRAWINGS

SHEET CONTENTS
EROSION, SEDIMENT,
& POLLUTION
CONTROL PLAN- FINAL
PHASE

SHEET NO.

C-035

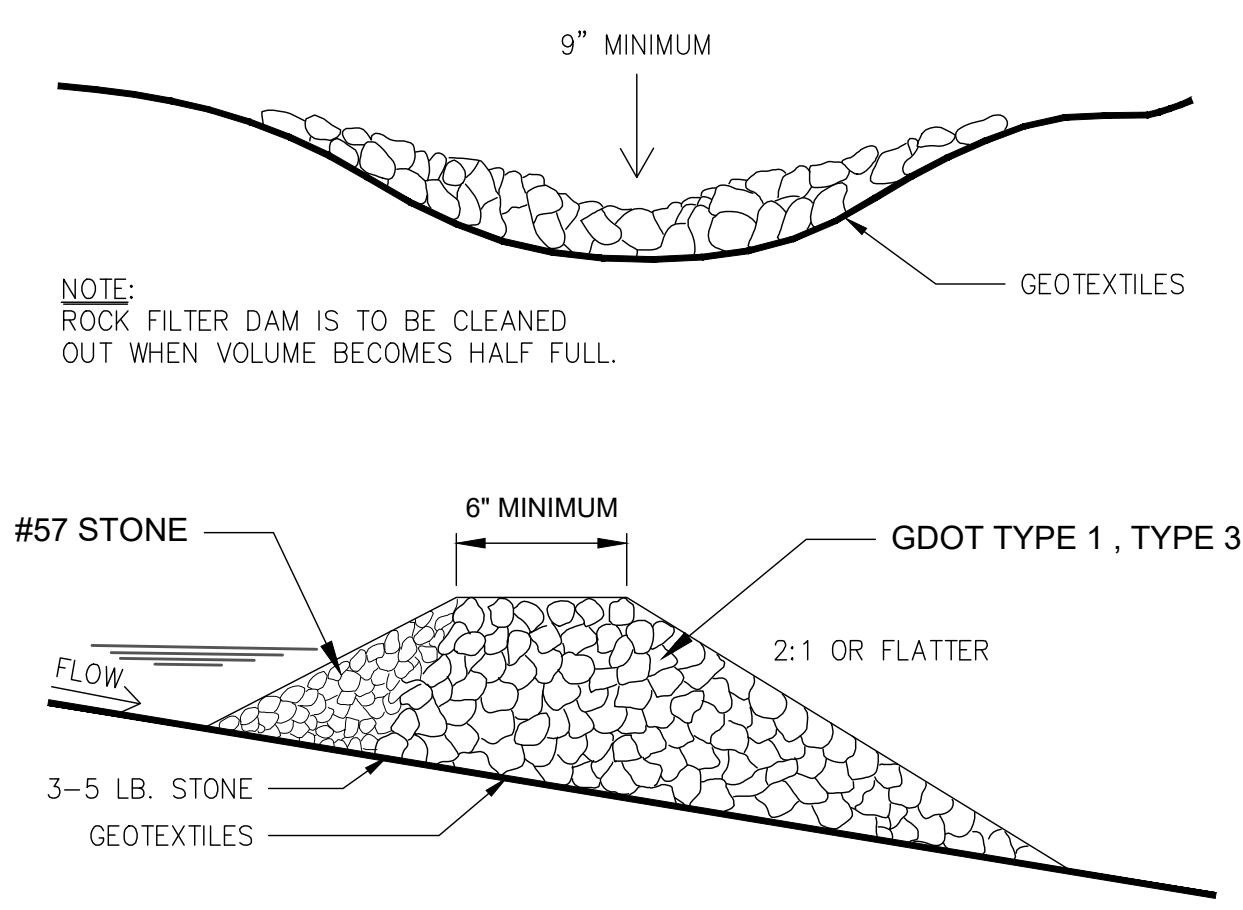


C:\AULICK\ENGINEERING\10_M&H - PROJECTS\1001_AGS\100122_AGS DRAINAGE DITCH EAST WEST\2 DESIGN\2E DWG\2E 4 SHEETS\C-036 ESPCP - DETAILS.DWG 10/25/2024 9:08:04 AM

Rd

ROCK FILTER DAM

Figure 6-24.1



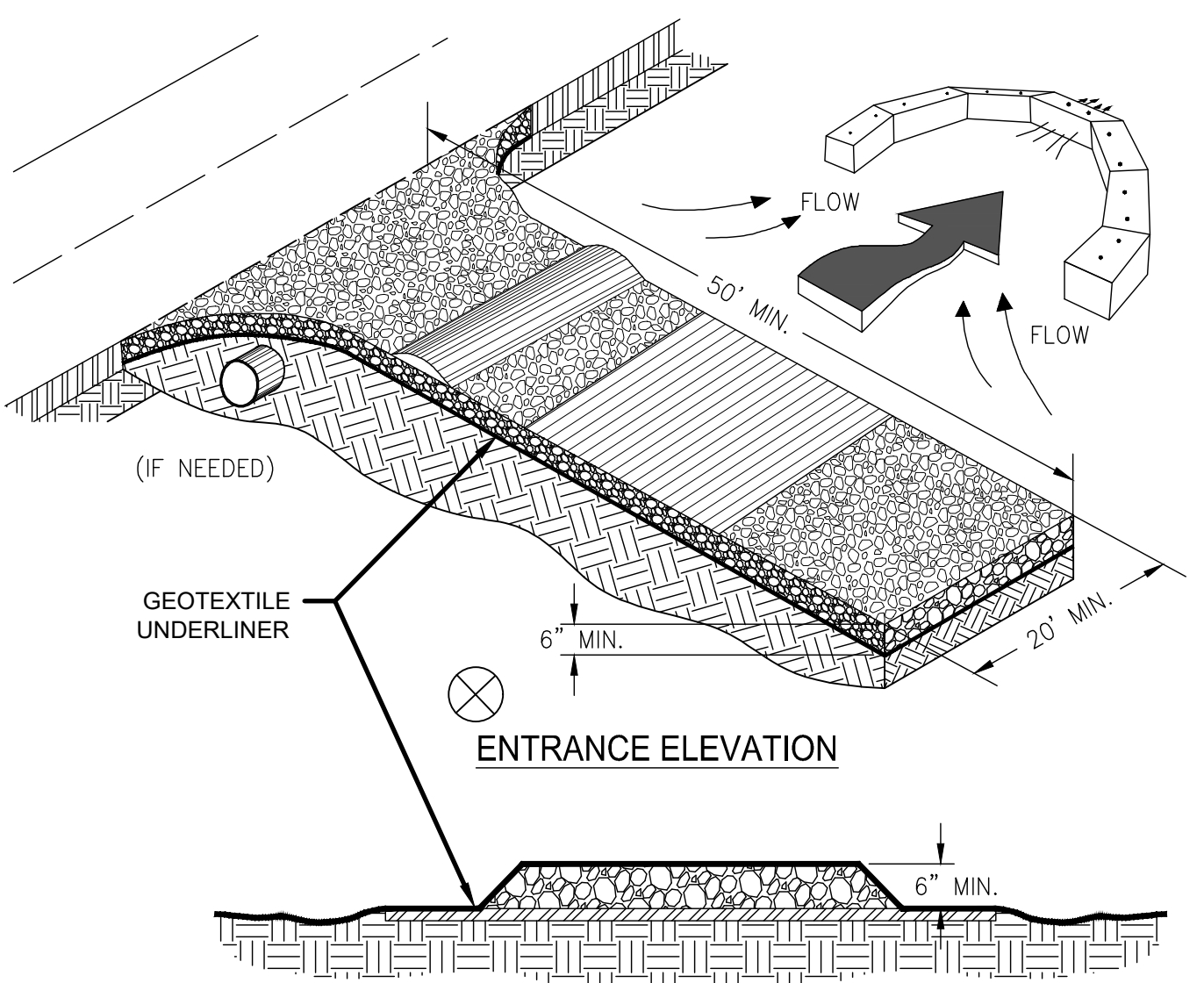
Rd #	BOTTOM ELEV.	TOP ELEV.	DRAINAGE AREA (ac)	SEDIMENT STORAGE REQUIRED (cf)	SEDIMENT STORAGE PROVIDED* (cf)
1	120.0	123.00	2.94	5,324	18,442
2	117.0	119.00	6.67	12,066	12,294
3	129.0	131.00	4.38	7,917	24,963

*Note: Rock dam (Rd) to back up water into channel and provide sediment storage. Sediment Storage Provided is the volume of the channel between the provided elevations.

Co

CRUSHED STONE CONSTRUCTION EXIT

Figure 6-14.1
EXIT DIAGRAM

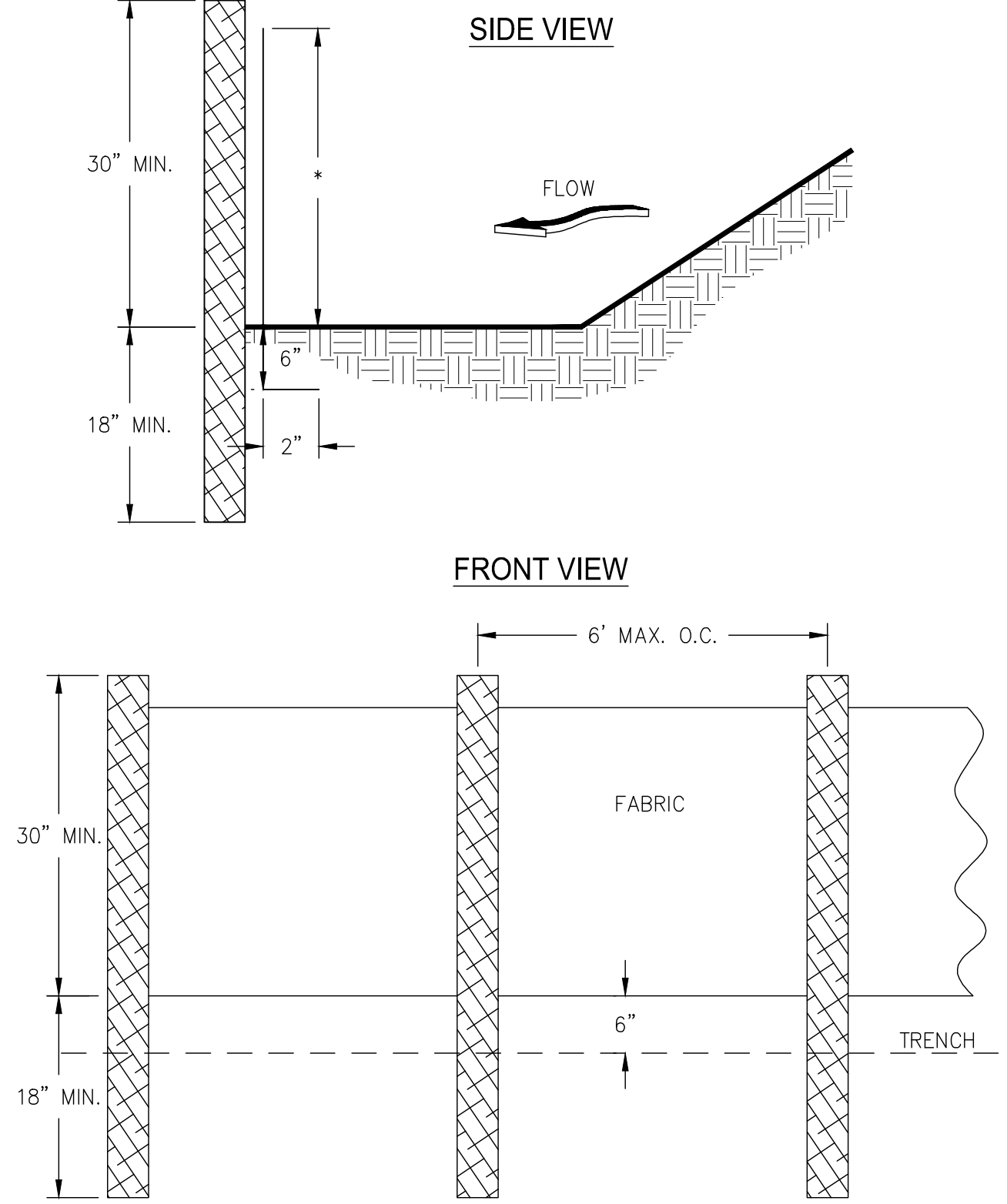


- NOTES:
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
 2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
 3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
 4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
 5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
 6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
 7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
 8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
 9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
 10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

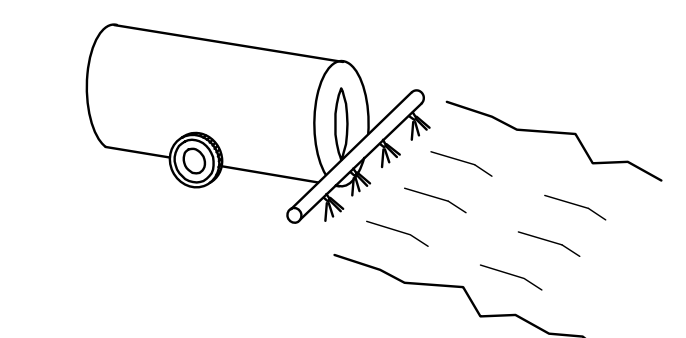
Sd1

SILT FENCE - TYPE NON-SENSITIVE

Figure 6-27.1



- NOTES:
1. SILT FENCE POSTS ARE TO BE MADE OF STEEL.
 2. HEIGHT (*) IS TO BE 28"



DEFINITION:
CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITES, ROADS, AND DEMOLITION SITES.

PURPOSE:
TO PREVENT SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES TO REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES WHICH MAY BE HARMFUL OR INJURIOUS TO HUMAN HEALTH, WELFARE, OR SAFETY, OR TO ANIMALS OR PLANT LIFE.

METHODS AND MATERIALS:
A.) TEMPORARY METHODS—MAY INCLUDE MULCHES (Ds1), (Ds2), SPRAY ON ADHESIVES, TACKIFIERS, IRRIGATION, BARRIERS, CALCIUM CHLORIDE.
B.) PERMANENT METHODS—MAY INCLUDE PERMANENT VEGETATION(Ds3), TOP SOILING, STONE, CONSTRUCTION ROAD STABILIZATION.

NOTE:
DUST CONTROL SHALL BE PERFORMED AS NEEDED AND AS DIRECTED BY THE ENGINEER OR OWNER. DUST CONTROL SHALL NOT BE MEASURED FOR PAYMENT BUT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

Du DUST CONTROL ON DISTURBED AREAS

PORTABLE CONCRETE WASHOUT CONTAINER



CONCRETE WASHOUT SYSTEMS
 PO Box 2804
 Carmichael, CA 95609
 Phone: 1 877 292 7468
 Fax: 1 916 244 0403
 info@concretewashout.com
 www.concretewashout.com
 Patent Pending

DESCRIPTION
A portable, self-contained and watertight container affixed with ramps that controls, captures and contains caustic concrete wastewater and washout material.

PURPOSE & OBJECTIVE
Allows trade personnel to easily washout concrete trucks, pumps and other equipment associated with cement on site and allows easy off site recycling of the same concrete materials and wastewater.

APPLICATION
Construction projects where concrete, stucco, mortar, grout and cement are used as a construction material or where cementitious wastewater is created.

MAINTENANCE
Inspect and clean out when ¾ full, not allowing the container to overflow.
Inspect wastewater level and request a vacuum if needed.
Inspect subcontractors to ensure that proper housekeeping measures are employed when washing out equipment.

SPECIFICATIONS
The container must be portable and temporary, watertight, equipped with ramps and have a holding capacity to accept washout from approximately 350 yards of poured concrete. A vacuum service must accompany washout container and be used by site superintendent as needed. A rampliss container may be used in conjunction with a ramped container or by itself if a concrete pump is not needed. The washwater must be disposed of or treated and recycled in an environmentally safe manner and in accordance with federal, state or local regulatory guidelines.

TARGETED POLLUTANTS
Caustic wastewater (high pH level near 12 units)
Suspended solids
Assorted Metals: Chromium VI, Nickel, Sulfate, Potassium, Magnesium and Calcium Compounds

CONCRETE WASHOUT
N.T.S.

CONCRETE WASHOUT SHALL BE "CONCRETE WASHOUT SYSTEMS, INC." OR APPROVED EQUAL FOR ALL ONSITE CONCRETE TRUCK WASHOUTS. COST OF WASHOUT AND MAINTENANCE SHALL BE INCIDENTAL TO PROJECT BID ITEMS.

Mead & Hunt
 Mead and Hunt, Inc.
 5955 Core Road, Suite 515
 North Charleston, SC 29406
 phone: 843-486-8330
 meadhunt.com

AGS AUGUSTA REGIONAL AIRPORT

AULICK ENGINEERING LLC
 STORMWATER | HYDRAULICS | EROSION CONTROL
 AIRFIELD & CIVIL SITE | CONSTRUCTION SERVICES

© Copyright 2022 Mead & Hunt, Inc.
 This document, or any portion thereof, shall not be duplicated, discussed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt shall not be responsible for any unauthorized use of, or alteration to these documents.

AUGUSTA REGIONAL AIRPORT
SOUTHEAST DRAINAGE DITCH
ENCLOSURE PH II
 1501 AVIATION WAY
 AUGUSTA, GA 30906-9620

ISSUED FOR BID



GSWCC LEVEL II DESIGN
 PROFESSIONAL
 CERTIFICATION # 000045842
 EXP. 10/01/2025

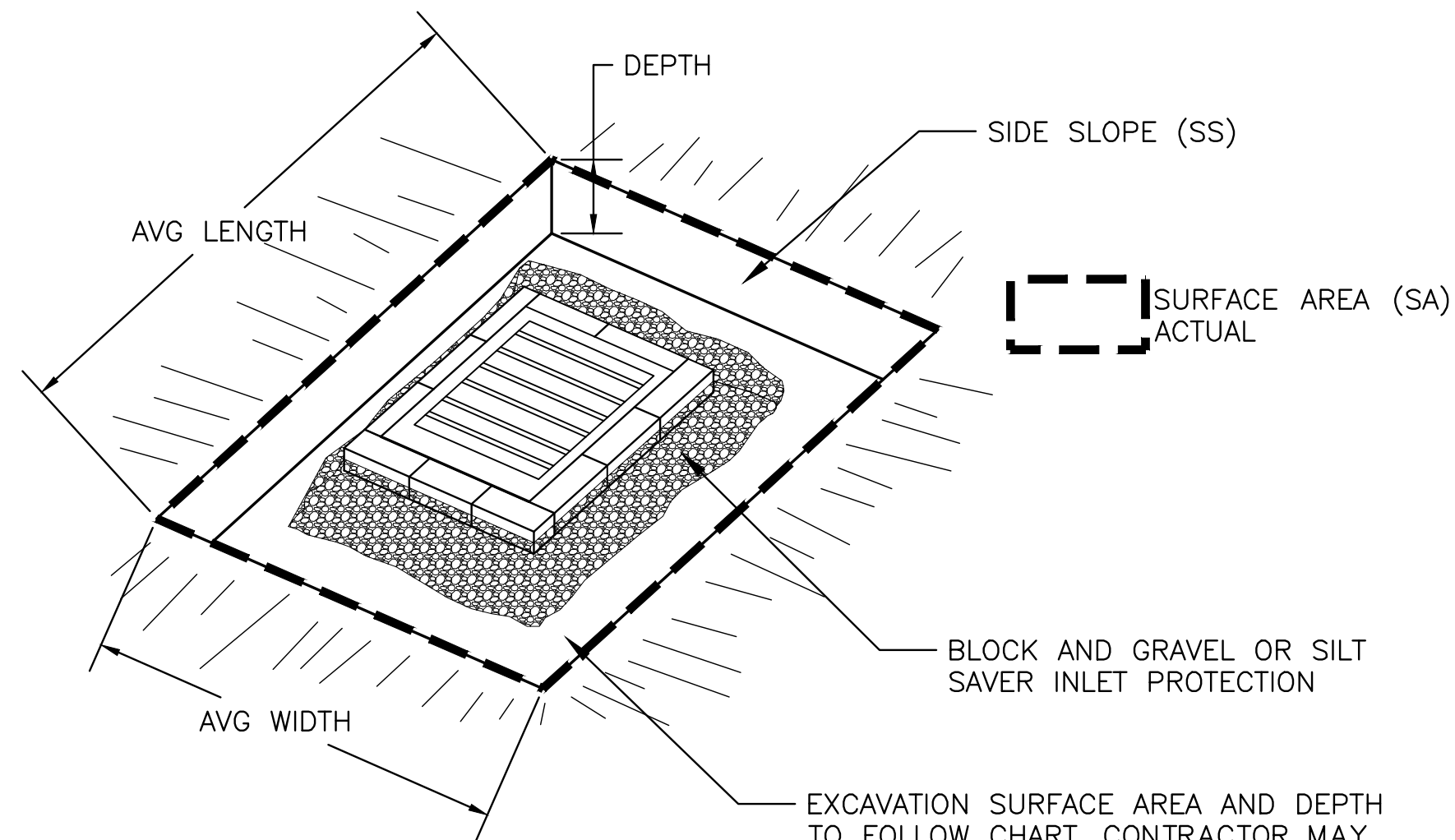
AGS:
 MSH NO.: 0119700-210463.01
 DATE: OCTOBER 22, 2024
 DESIGNED BY: CMJ
 DRAWN BY: HCA
 CHECKED BY: AKM
 DO NOT SCALE DRAWINGS

SHEET CONTENTS
 EROSION, SEDIMENT & POLLUTION CONTROL PLAN - DETAILS

SHEET NO.

C-036

C:\AULICK\AULICK ENGINEERING\10_M&H - PROJECTS\1001_AGS\100122_AGS DRAINAGE DITCH EAST-WEST\2 DESIGN\2E DWG\2E 4 SHEETS\C-036 ESPCP - DETAILS.DWG
10/25/2024 9:08:07 AM

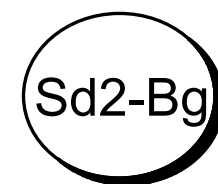


EXCAVATION SURFACE AREA AND DEPTH TO FOLLOW CHART. CONTRACTOR MAY ADJUST SHAPE OF EXCAVATED INLET TO CONFORM TO SITE CONSTRAINTS. SURFACE AREA AND VOLUMES MUST BE MAINTAINED AT ALL TIMES THOUGH.

NOTES:

1. AN EXCAVATION MAY BE CREATED AROUND THE INLET SEDIMENT TRAP TO PROVIDE ADDITIONAL SEDIMENT STORAGE. THE TRAP SHALL BE SIZED TO PROVIDE A MINIMUM STORAGE CAPACITY CALCULATED AT THE RATE OF 67 CUBIC YARDS PER ACRE OF DRAINAGE AREA. A MINIMUM DEPTH OF 1.5 FEET FOR SEDIMENT STORAGE SHOULD BE PROVIDED. SIDE SLOPES SHALL NOT BE STEEPER THAN 2:1.

2. SEDIMENT TRAPS MAY BE CONSTRUCTED ON NATURAL GROUND SURFACE, ON AN EXCAVATED SURFACE, OR ON MACHINE COMPACTED FILL, PROVIDED THEY HAVE A NON-ERODIBLE OUTLET.



INLET SEDIMENT TRAP - EXCAVATED

EXCAV.

EXCAVATED SEDIMENT TRAP (Sd2) CALCULATIONS

1

If the EXCAVATED INLET SEDIMENT TRAP is used, show the following information:

1. Drainage area = 0.54 ac
2. Required sediment storage = 67cy/ac * drainage area
Required sediment storage = 67 cy/ac * 0.54 ac
Required sediment storage = 36.1 cy = 974 cf
3. Assume excavation depth (minimum of 1.5 ft.) = 2 ft
4. Assumed slope of sides (shall not be steeper that 2:1) = 3 :1
5. Determine required surface area
SA min = Required sediment storage / excavation depth
SA min = 974 cf / 2 ft
SA min = 487 sf
SA Design= 2,126 sf
Provided sediment storage = 173.8 cy = 1,564 cf
6. Assumed shape of excavation and determine dimensions.
(A rectangle shape with 2:1 length to width ratio is recommended.)
Shape: SEE PLANS
Dimensions: l = _____ ft w= _____ ft diameter (if applicable)= _____ ft

Provide a detail showing the depth, length and width, or diameter (if applicable), and side slope of the excavation. **See plans for details**

EXCAVATED SEDIMENT TRAP (Sd2) CALCULATIONS

2

If the EXCAVATED INLET SEDIMENT TRAP is used, show the following information:

1. Drainage area = 1.14 ac
2. Required sediment storage = 67cy/ac * drainage area
Required sediment storage = 67 cy/ac * 1.14 ac
Required sediment storage = 76.2 cy = 2,058 cf
3. Assume excavation depth (minimum of 1.5 ft.) = 2 ft
4. Assumed slope of sides (shall not be steeper that 2:1) = 3 :1
5. Determine required surface area
SA min = Required sediment storage / excavation depth
SA min = 2,058 cf / 2 ft
SA min = 1,029 sf
SA Design= 9,190 sf
Provided sediment storage = 1221.8 cy = 10,996 cf
6. Assumed shape of excavation and determine dimensions.
(A rectangle shape with 2:1 length to width ratio is recommended.)
Shape: SEE PLANS
Dimensions: l = _____ ft w= _____ ft diameter (if applicable)= _____ ft

Provide a detail showing the depth, length and width, or diameter (if applicable), and side slope of the excavation. **See plans for details**

EXCAVATED SEDIMENT TRAP (Sd2) CALCULATIONS

3

If the EXCAVATED INLET SEDIMENT TRAP is used, show the following information:

1. Drainage area = 0.88 ac
2. Required sediment storage = 67cy/ac * drainage area
Required sediment storage = 67 cy/ac * 0.88 ac
Required sediment storage = 59.1 cy = 1,597 cf
3. Assume excavation depth (minimum of 1.5 ft.) = 2 ft
4. Assumed slope of sides (shall not be steeper that 2:1) = 2 :1
5. Determine required surface area
SA min = Required sediment storage / excavation depth
SA min = 1,597 cf / 2 ft
SA min = 798 sf
SA Design= 1,600 sf
Provided sediment storage = 118.5 cy = 3,200 cf
6. Assumed shape of excavation and determine dimensions.
(A rectangle shape with 2:1 length to width ratio is recommended.)
Shape: Rectangular (2:1)
Dimensions: l = 57 ft w= 28 ft diameter (if applicat. N/A ft

Provide a detail showing the depth, length and width, or diameter (if applicable), and side slope of the excavation. **See plans for details**



Mead and Hunt, Inc.
5955 Core Road, Suite 515
North Charleston, SC 29406
phone: 843-486-8330
meadhunt.com

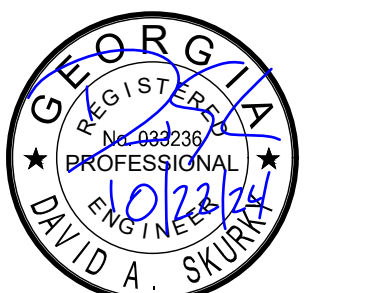


© Copyright 2022 Mead & Hunt, Inc.
This document, or any portion thereof, shall not be duplicated, discussed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt shall not be responsible for any unauthorized use of, or alteration to these documents.

**AUGUSTA REGIONAL AIRPORT
SOUTHEAST DRAINAGE DITCH
ENCLOSURE PH II**
1501 AVIATION WAY
AUGUSTA, GA 30906-9620

ISSUED

ISSUED FOR BID



GSWCC LEVEL II DESIGN
PROFESSIONAL
CERTIFICATION # 0000045842
EXP. 10/01/2025

AG:
MSH NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: CMJ
DRAWN BY: HCA
CHECKED BY: AKM
DO NOT SCALE DRAWINGS

SHEET CONTENTS
EROSION, SEDIMENT &
POLLUTION CONTROL
PLAN - DETAILS

SHEET NO.

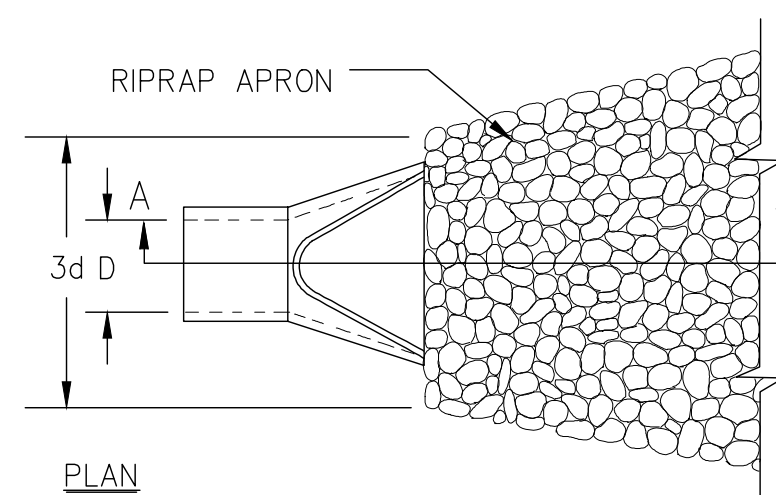
C-037

Rip Rap Calculations															
St ID	Structure ID	Sheet No.	D ₀ (IN)	Q ₂₅ (CFS)	V ₂₅ (FPS)	L _a (FT.)	W ₁ (FT.)	W ₂ (FT.)	d ₅₀ (IN.)	D (IN.)	Area (sq)	Min/Max Tailwater	Volume (cy)	Volume (cf)	Weight (ton)
1	St	C-035	84	241.0	12.3	39.0	18.0	45.0	15	33.8	136.5	Min	128.2	3460	277

St RIPRAP OUTLET PROTECTION

Figure 6-34.3

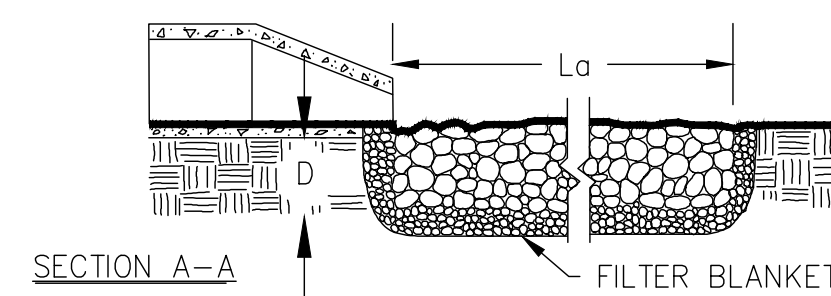
PIPE OUTLET TO FLAT AREA -- NO WELL DEFINED CHANNEL



PLAN

NOTES:

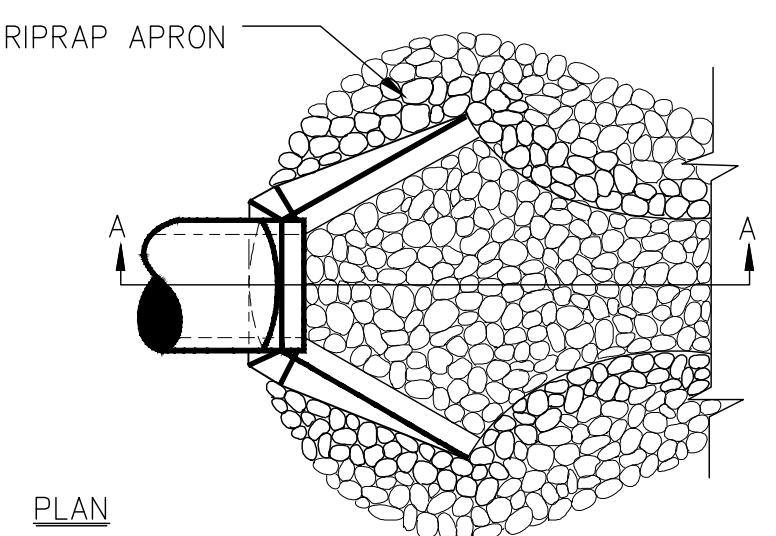
1. L_a IS THE LENGTH OF THE RIPRAP APRON.
2. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
3. IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).
4. A FILTER BLANKET OR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



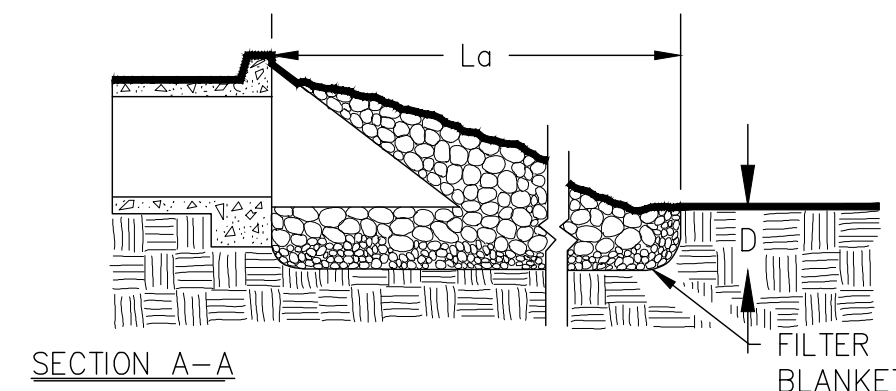
SECTION A-A

FILTER BLANKET

PIPE OUTLET TO WELL DEFINED CHANNEL



PLAN



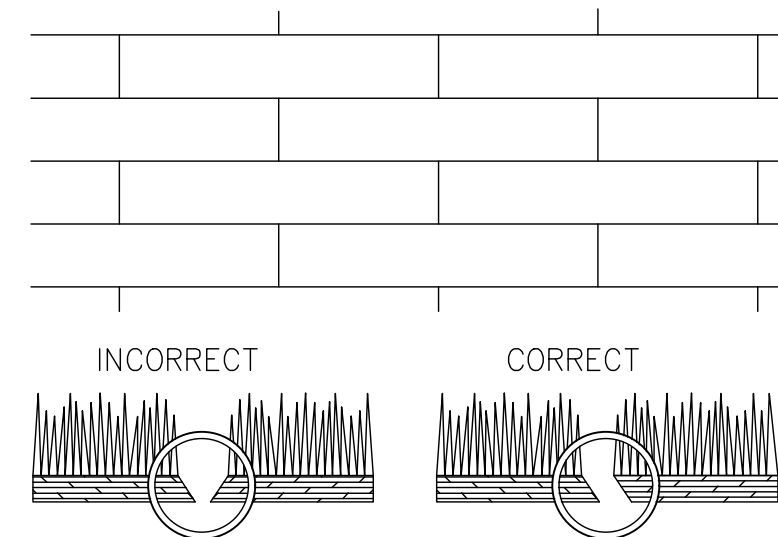
SECTION A-A

FILTER BLANKET

Ds4 SOD MAINTENANCE AND INSTALLATION

Figure 6-6.2

SOD LAYOUT AND PREPARATION



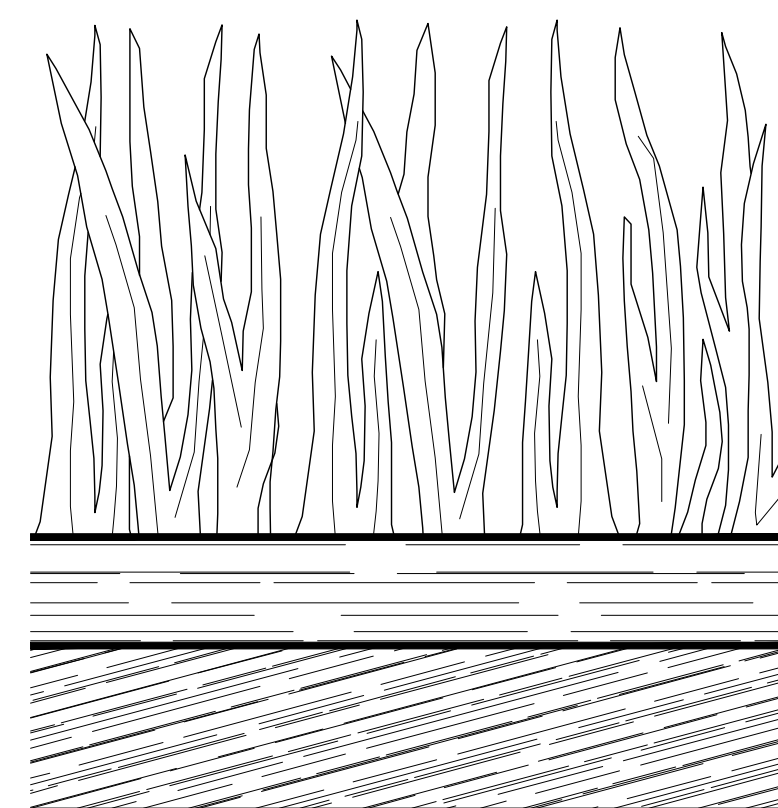
LAY SOD IN A STAGGERED PATTERN. BUTT THE STRIPS TIGHTLY AGAINST EACH OTHER. DO NOT LEAVE SPACES AND DO NOT OVERLAP. A SHARPENED MASON'S TROWEL IS A HANDY TOOL FOR TUCKING DOWN THE ENDS AND TRIMMING PIECES.

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.

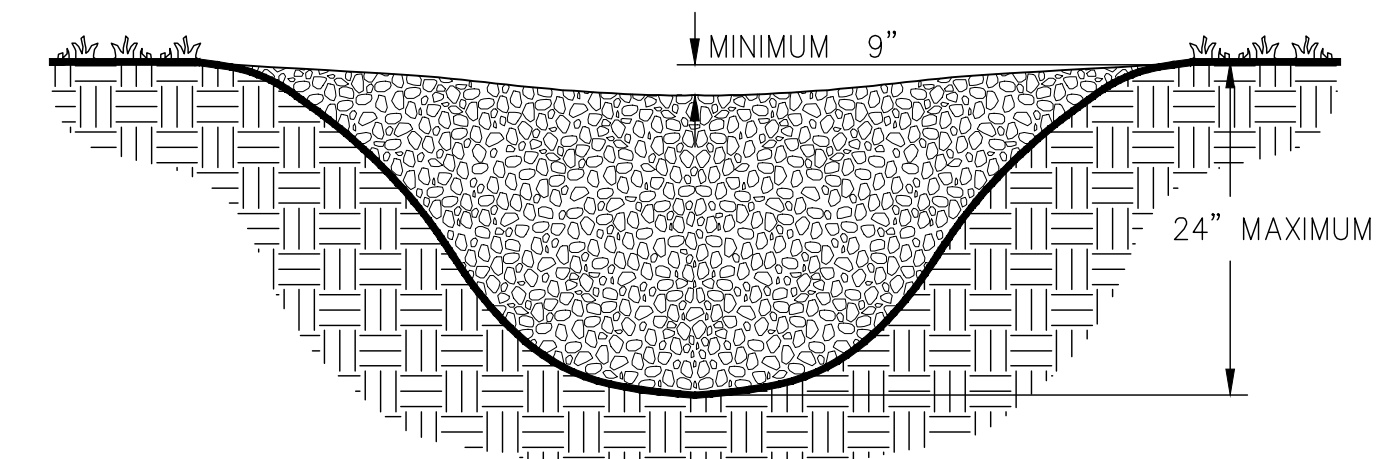
THATCH: GRASS CLIPPINGS AND DEAD LEAVES (UP TO 1/2" THICK).

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

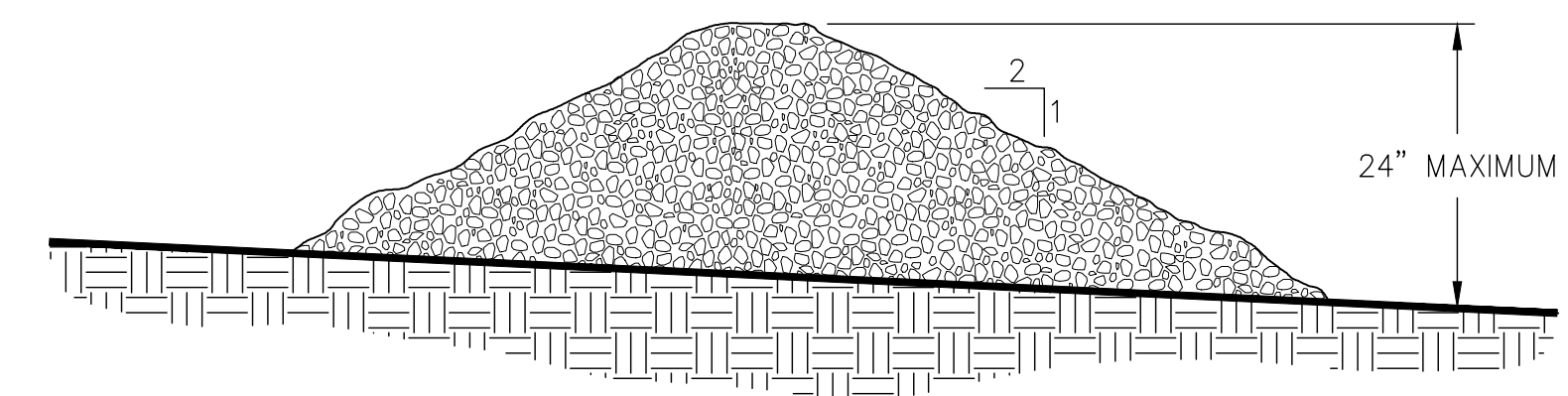
Cd STONE CHECK DAM

Figure 6-12.2

CROSS SECTION



PROFILE VIEW



NOTES:

1. CHECK DAMS ARE TO BE USED ONLY IN SMALL OPEN CHANNELS (THEY ARE NOT TO BE USED IN LIVE STREAMS).
2. THE DRAINAGE AREA FOR STONE CHECK DAMS SHALL NOT EXCEED TWO ACRES.
3. THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN THE OUTER EDGES.
4. THE DAM HEIGHT SHOULD BE A MAXIMUM OF 2 FEET FROM CENTER TO RIM EDGE.
5. THE SIDE SLOPES OF THE CHECK DAM SHALL NOT EXCEED A 2:1 SLOPE.
6. GEOTEXTILE SHALL BE USED TO PREVENT THE MITIGATION OF SUBGRADE SOIL PARTICLES INTO THE STONES (REFER TO AASHTO M288-96, SECTION 7.3, TABLE 3).

AUGUSTA REGIONAL AIRPORT
SOUTHEAST DRAINAGE DITCH
ENCLOSURE PH II
 1501 AVIATION WAY
 AUGUSTA, GA 30906-9620

ISSUED

ISSUED FOR BID



GSWCC LEVEL II DESIGN
PROFESSIONAL
CERTIFICATION # 0000045842
EXP. 10/01/2025

AGS:
MSH NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: CMJ
DRAWN BY: HCA
CHECKED BY: AKM
DO NOT SCALE DRAWINGS

SHEET CONTENTS
EROSION, SEDIMENT &
POLLUTION CONTROL
PLAN - DETAILS

SHEET NO.

C-038

GRASSING NOTES:

TEMPORARY GRASSING

Ds1 Ds2

1. APPLY TEMPORARY GRASSING TO DISTURBED AREAS WITHIN 14 DAYS OF LAND DISTURBING ACTIVITIES IF PERMANENT GRASSING IS NOT REQUIRED. APPLY TEMPORARY GRASSING TO SOIL STOCKPILES.
2. ALL AREAS RECEIVING TEMPORARY GRASS MIXTURE SHALL RECEIVE AN APPLICATION OF FERTILIZER AND BE PROTECTED WITH MULCH.
3. APPLY SEED MIXTURE AT SPECIFIED APPLICATION RATE EVENLY. DO NOT SEED AN AREA IN EXCESS OF THAT WHICH CAN BE MULCHED ON THE SAME DAY. DO NOT SOW IMMEDIATELY FOLLOWING A RAIN, WHEN GROUND IS TOO DRY, OR DURING WINDY PERIODS.
4. MULCH SHALL BE APPLIED IMMEDIATELY AFTER GRASSING. ALL MULCH SHALL RECEIVE AN APPLICATION OF TACKIFIER.
5. TACKIFIER IS TO BE APPLIED AS PER MANUFACTURERS RECOMMENDATIONS.
6. TEMPORARY MIXTURES ACCEPTABLE FOR THIS PROJECT ARE LISTED IN THE SPECIFICATIONS. SEED MIXTURES GROW RAPIDLY AND ARE LOW-MAINTENANCE.

PERMANENT GRASSING

Ds3

1. APPLY PERMANENT GRASSING WHENEVER GRADING OPERATIONS ARE COMPLETE AND ALL ADDITIONAL CONSTRUCTION OPERATIONS WILL NOT IMPACT THE DISTURBED AREA. APPLY PERMANENT GRASSING TO ALL NON-CONSTRUCTION AREAS WHICH SHOW SIGNS OF EXCESSIVE EROSION.
2. ALL AREAS RECEIVING PERMANENT GRASS MIXTURE SHALL RECEIVE AN APPLICATION OF FERTILIZER AND BE PROTECTED WITH MULCH AND/OR EROSION CONTROL MATTING. APPLY LIME AT A RATE BASED ON PH OF SOIL (SEE LIME REQUIRED FOR GRASSING BASED ON THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA). FOR DRY GRASSING, UNIFORMLY INCORPORATE INTO SOIL FOR A DEPTH OF 1 INCH AND LIGHTLY WATER TO AID THE DISSIPATION OF FERTILIZER.
3. APPLY SEED MIXTURE AT SPECIFIED RATES EVENLY IN TWO INTERSECTING DIRECTIONS BY THE USE OF A MECHANICAL SPREADER OR HYDROSEEDER. DO NOT SEED AN AREA IN EXCESS OF THAT WHICH CAN BE MULCHED ON THE SAME DAY. DO NOT SOW IMMEDIATELY FOLLOWING A RAIN, WHEN GROUND IS TOO DRY, OR DURING WINDY PERIODS.
4. COMBINED HYDRAULIC APPLICATION OF SEED, FERTILIZER, AND MULCH MAY BE PERFORMED. TACKIFIER APPLICATION MAY BE WITHIN THE COMBINED MIXTURE IF ALLOWED BY MANUFACTURER'S RECOMMENDATIONS. HYDRAULIC SPRAYING EQUIPMENT AND MIXTURE SHALL BE DESIGNED SUCH THAT WHEN THE GRASS MIXTURE IS SPRAYED OVER THE AREA, THE MIXTURE COMPONENTS SHALL BE EQUAL IN QUANTITY TO THE SPECIFIED RATES.
5. WOOD FIBER MULCH SHALL BE APPLIED AS INDICATED IN THE PROJECT SPECIFICATIONS. STRAW MULCH SHALL BE UTILIZED TO PROVIDE A UNIFORM LOOSE DEPTH BETWEEN 1-1/2 TO 3 INCHES. ALL MULCH SHALL RECEIVE AN APPLICATION OF TACKIFIER.
6. PERMANENT MIXTURES ACCEPTABLE FOR THIS PROJECT ARE LISTED BELOW AND IN THE SPECIFICATIONS. THESE MIXTURES ARE GROW RAPIDLY AND ARE LOW-MAINTENANCE.

HYDROSEEDING

1. HYDROSEEDING IS THE WET HYDRAULIC SPRAYING OF SEED, FERTILIZER, TACKIFIER, AND USUALLY MULCH IN A ONE-STEP PROCESS. MATERIALS ARE MIXED WITH WATER IN A SLURRY TANK TO FORM A HOMOGENEOUS SLURRY, WHICH IS THEN SPRAYED ON THE SOIL SURFACE BY A HYDRAULIC SEEDER.
2. ORDINARY MULCH IS NOT SUITABLE FOR HYDROSEEDING. MULCH FOR HYDROSEEDING IS GENERALLY VIRGIN WOOD FIBER MULCH, MANUFACTURED TO BE UNIFORMLY SUSPENDED AS A SLURRY. STRAW MULCH SHALL BE APPLIED AFTER HYDROSEEDING.

FERTILIZING

1. CONTRACTOR IS RESPONSIBLE FOR FERTILIZING AS NEEDED THROUGHOUT THE PROJECT. COST SHALL BE INCIDENTAL TO THE COST OF GRASSING.
 2. CONTRACTOR SHALL FERTILIZE GRASSING THROUGH THE ONE YEAR WARRANTY AFTER SUBSTANTIAL COMPLETION AT NO ADDITIONAL COST.
 3. CONTRACTOR TO PROVIDE A FERTILIZING PLAN SPECIFIC TO PROJECT SITE TO OWNER AS PART OF PROJECT CLOSEOUT
- ***CONTRACTOR SHALL CONDUCT SOIL TESTS TO IDENTIFY AND TO IMPLEMENT SITE-SPECIFIC FERTILIZER NEEDS. THIS WILL SATISFY SECTION P OF APPENDIX 1 IN THE EROSION CONTROL CHECKLIST, PER THE IMPAIRED STREAMS.

MAINTENANCE

1. INSPECT FREQUENTLY WITHIN THE FIRST SIX WEEKS OF PLANTING TO SEE IF GRASS STANDS ARE UNIFORM AND DENSE, AND TO ASSURE THAT APPROPRIATE MOISTURE LEVELS ARE MAINTAINED. MAKE PROVISIONS TO WATER AS NEEDED.
2. CONTRACTOR TO REVISE AND MULCH AS NECESSARY UNTIL THE GRASS IS SATISFACTORY TO THE OWNER.
3. CHECK FOR DAMAGE CAUSED BY EQUIPMENT OR HEAVY RAINS. DAMAGED AREAS SHOULD BE REPAIRED, FERTILIZED, SEEDED, AND MULCHED. TACK OR TIE DOWN MULCH AS NECESSARY TO PREVENT BLOWING.
4. ADDITIONAL VEGETATION WILL BE EMPLOYED WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS AT CONTRACTOR EXPENSE.
5. GRASS THAT ATTRACTS WILDLIFE SHALL NOT BE USED.
6. AT THE TIME THAT A SATISFACTORY VEGETATION HAS BEEN ESTABLISHED, ALL TEMPORARY EROSION CONTROL BMPs SHALL BE REMOVED FROM THE SITE, AND ALL RETROFITTED DETENTION PONDS WILL BE CLEANED AND GRADED TO THE DETENTION POND DESIGN.
7. ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICE MAINTENANCE, REMOVAL, REPAIR, REGRASSING AND RECONSTRUCTION COSTS WILL BE INCIDENTAL TO THE COST OF THE PROJECT.
8. CONTRACTOR IS RESPONSIBLE FOR MOWING UNTIL PROJECT CLOSEOUT PAPERWORK IS COMPLETE. HEIGHT SHALL BE MAINTAINED TO NO GREATER THAN 4"-6" THROUGHOUT THE PROJECT AND AS DIRECTED BY THE ENGINEER.

GRASSING SCHEDULE:

TEMPORARY GRASSING SCHEDULE												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
ANNUAL RYE GRASS (50#/AC)	[Red bar from Jan to Dec]											
FERTILIZER 10-10-10 (400#/AC)	[Green bar from Jan to Dec]											
PERMANENT GRASSING SCHEDULE												
SEED APPLICATION FOR AREAS WITH SLOPES FLATTER THAN 3:1**												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
COMMON BERMUDA (HULLED-50#/AC)				[Pink bar from Apr to Oct]								
COMMON BERMUDA (UNHULLED-50#/AC)				[Green bar from Apr to Oct]								
* - TO BE APPLIED TO GRASS BETWEEN 2" AND 4" IN HEIGHT (TOPDRESSED) ** - TEMPORARY GRASSING ONLY FROM OCTOBER 16TH TO MARCH 31ST												
SEED APPLICATION FOR AREAS WITH SLOPES 3:1 OR GREATER**												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
COMMON BERMUDA (HULLED-50#/AC)				[Pink bar from Apr to Oct]								
COMMON BERMUDA (UNHULLED-50#/AC)				[Green bar from Apr to Oct]								
* - TO BE APPLIED TO GRASS BETWEEN 2" AND 4" IN HEIGHT (TOPDRESSED) ** - TEMPORARY GRASSING ONLY FROM OCTOBER 16TH TO MARCH 31ST												
FERTILIZER AND MULCH												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
FERTILIZER 10-10-10 (1000#/AC)***	[Green bar from Feb to Nov]											
AGRICULTURAL LIME (3000#/AC)	[Orange bar from Feb to Nov]											
AMMONIUM NITRATE 34-0-0 (50#/AC) - *	[Red bar from Apr to Oct]											
MULCHING (5000#/AC)	[Blue bar from Jan to Dec]											
* - TO BE APPLIED TO GRASS BETWEEN 2" AND 4" IN HEIGHT (TOPDRESSED) ***- FERTILIZER APPLICATION SHOULD BE SPLIT 50/50 WITH 500# AT TIME OF SEEDING AND 500# 45-60 AFTER INITIAL SEEDING												



Mead and Hunt, Inc.
5955 Core Road, Suite 515
North Charleston, SC 29406
phone: 843-486-8330
meadhunt.com



© Copyright 2022 Mead & Hunt, Inc.
This document, or any portion thereof, shall not be duplicated, discussed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt shall not be responsible for any unauthorized use of, or alteration to these documents.

AUGUSTA REGIONAL AIRPORT
 SOUTHEAST DRAINAGE DITCH
 ENCLOSURE PH II
 1501 AVIATION WAY
 AUGUSTA, GA 30906-9620

ISSUED FOR BID



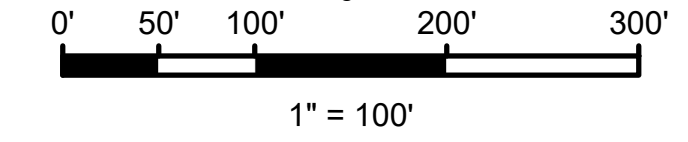
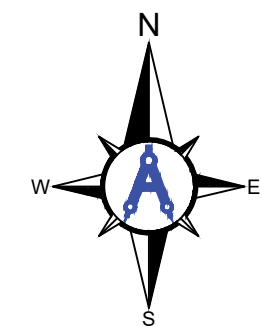
GSWCC LEVEL II DESIGN
PROFESSIONAL
CERTIFICATION # 0000045842
EXP. 10/01/2025

AGS:
MSH NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: CMJ
DRAWN BY: HCA
CHECKED BY: AKM
DO NOT SCALE DRAWINGS

SHEET CONTENTS
EROSION, SEDIMENT &
POLLUTION CONTROL
PLAN - DETAILS

SHEET NO.

C-039



Mead & Hunt
 Mead and Hunt, Inc.
 5955 Core Road, Suite 515
 North Charleston, SC 29406
 phone: 843-486-8330
 meadhunt.com

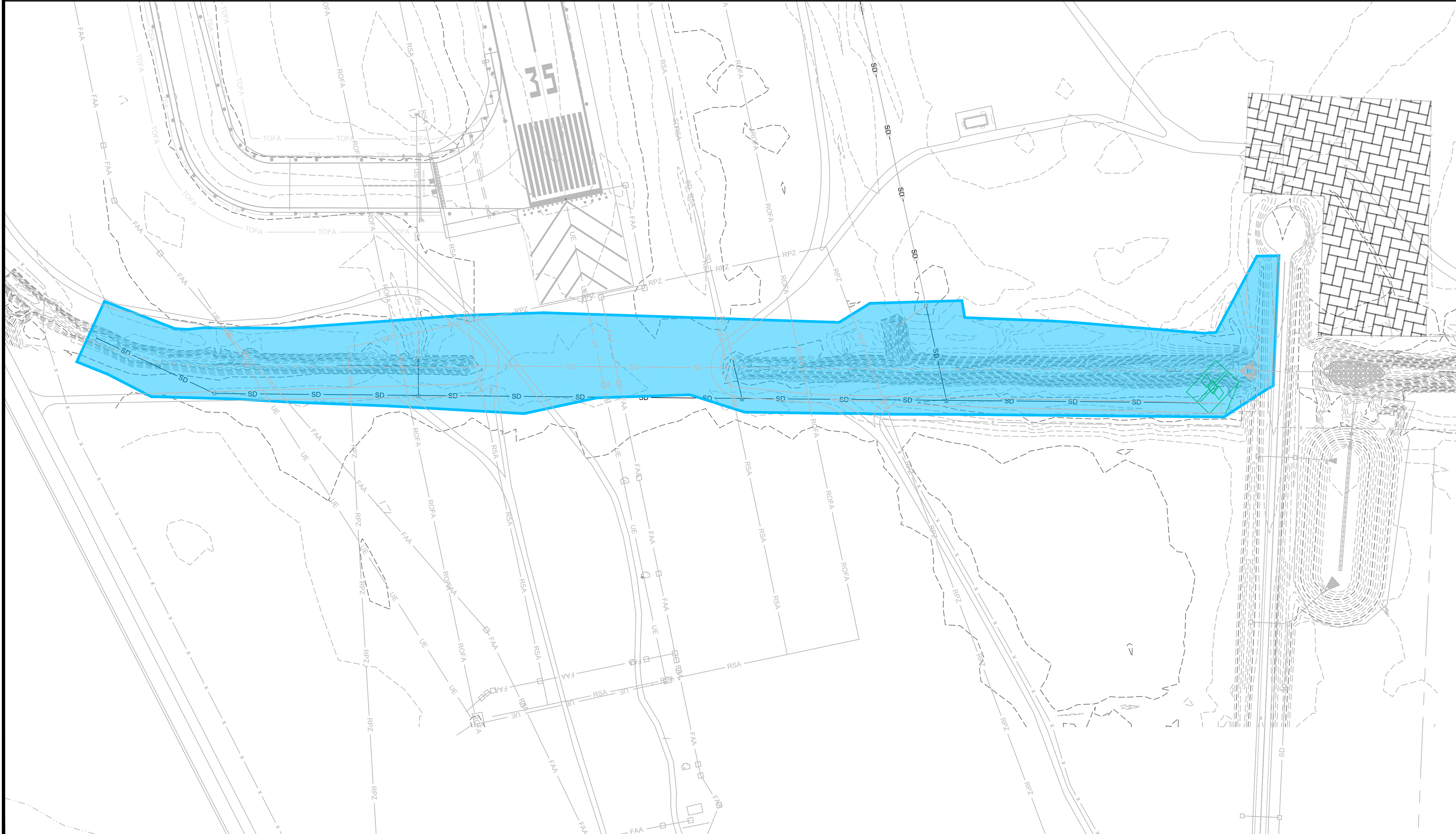


© Copyright 2022 Mead & Hunt, Inc.
 This document, or any portion thereof, shall not be duplicated, disclosed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt shall not be responsible for any unauthorized use of, or alteration to these documents.

DRAINAGE AREA MAP LEGEND

PRE-DEVELOPED DRAINAGE AREA

PRE-PROJECT				
Basin	Total Area (AC)	Grassed	CN	Tc (min)
		0.20		
Pre 1	10.2	10.2	61	7
TOTAL	10.2	10.20		



**AUGUSTA REGIONAL AIRPORT
 SOUTHEAST DRAINAGE DITCH
 ENCLOSURE PH II**
 1501 AVIATION WAY
 AUGUSTA, GA 30906-9620

ISSUED FOR BID



GSWCC LEVEL II DESIGN
 PROFESSIONAL
 CERTIFICATION # 0000045842
 EXP. 10/01/2025

AIR NO: 3-13-011-043-2019
 M&H NO: 0119700-210463.01
 DATE: OCTOBER 22, 2024
 DESIGNED BY: CMJ
 DRAWN BY: HCA
 CHECKED BY: AKM
 DO NOT SCALE DRAWINGS

SHEET CONTENTS
 ES&PCP -
 PRE-DEVELOPMENT
 DRAINAGE AREA MAP

SHEET NO. of
C-040

C:\AULICK\ENGINEERING\10_M&H - PROJECTS\1001_AGS\100122_AGS DRAINAGE DITCH EAST-WEST\2 DESIGN\2E DWG\2E_4 SHEETS\C-040 ESPCP - DA MAPS.DWG
 10/25/2024 9:08:32 AM

DRAINAGE AREA MAP LEGEND

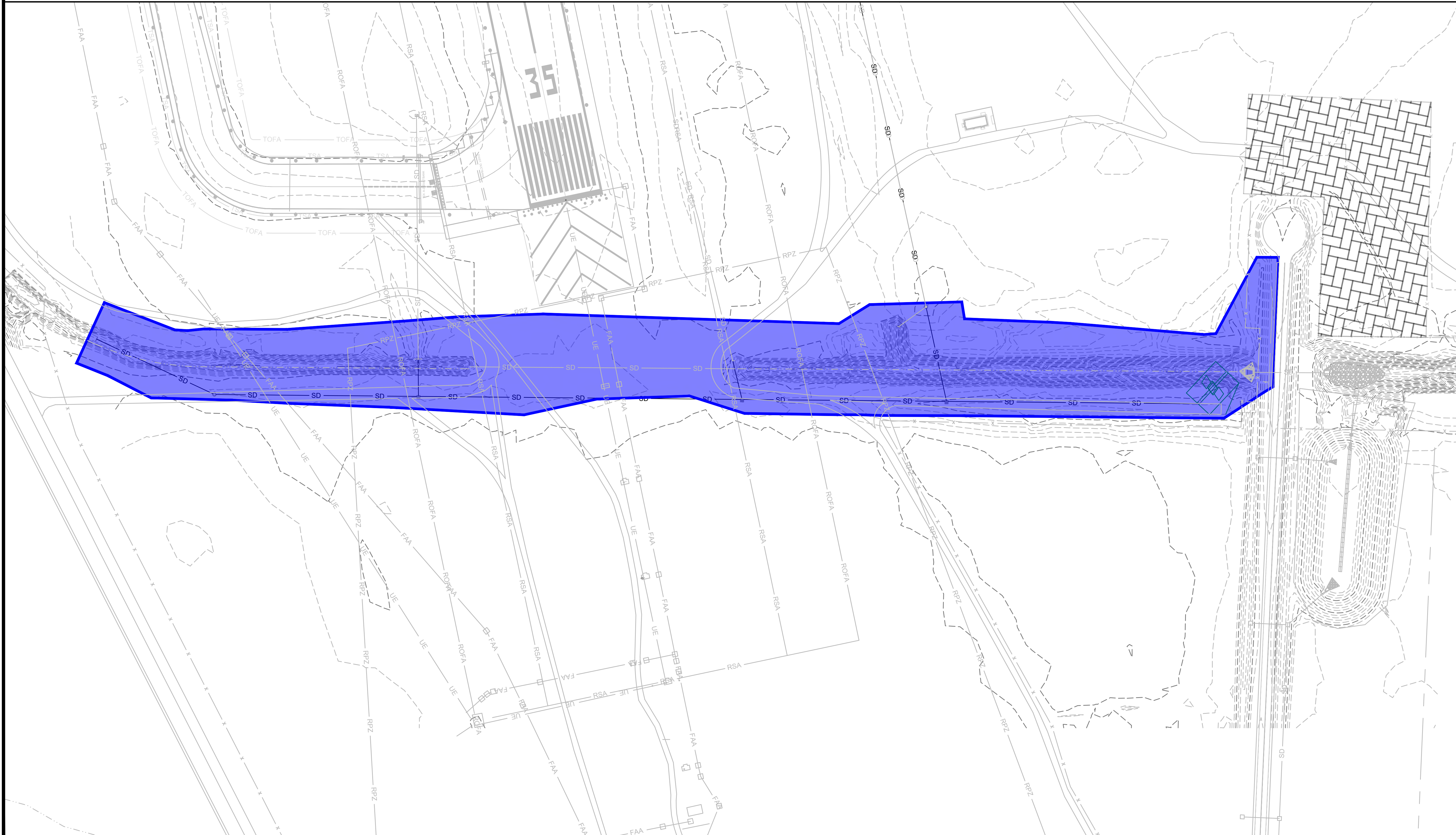
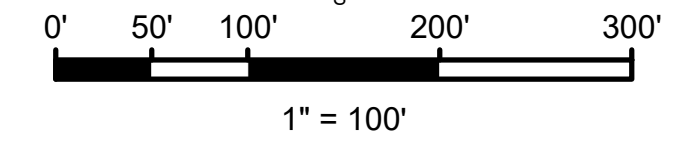
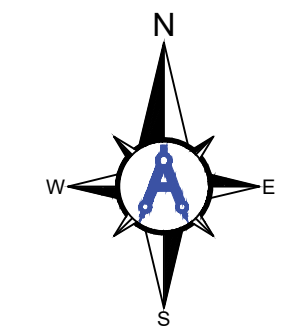
POST-DEVELOPED DRAINAGE AREA

POST-PROJECT

Basin	Total Area (AC)	Grassed	CN	Tc (min)
		0.20 61		
Post 1	10.2	10.2	61	7
TOTAL	10.2	10.2		

DRAINAGE AREA MAP NOTE

THERE IS NO CHANGE IN EXISTING LAND USE AS A RESULT OF THIS PROJECT, THEREFORE, POST-CONSTRUCTION STORMWATER PEAK FLOWS AND CURVE NUMBERS WILL NOT CHANGE.



Mead and Hunt, Inc.
5955 Core Road, Suite 515
North Charleston, SC 29406
phone: 843-486-8330
meadhunt.com



© Copyright 2022 Mead & Hunt, Inc.
This document, or any portion thereof, shall not be duplicated, disclosed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt shall not be responsible for any unauthorized use of, or alteration to these documents.

**AUGUSTA REGIONAL AIRPORT
SOUTHEAST DRAINAGE DITCH
ENCLOSURE PH II
1501 AVIATION WAY
AUGUSTA, GA 30906-9620**

ISSUED FOR BID



GSWCC LEVEL II DESIGN
PROFESSIONAL
CERTIFICATION # 0000045842
EXP. 10/01/2025

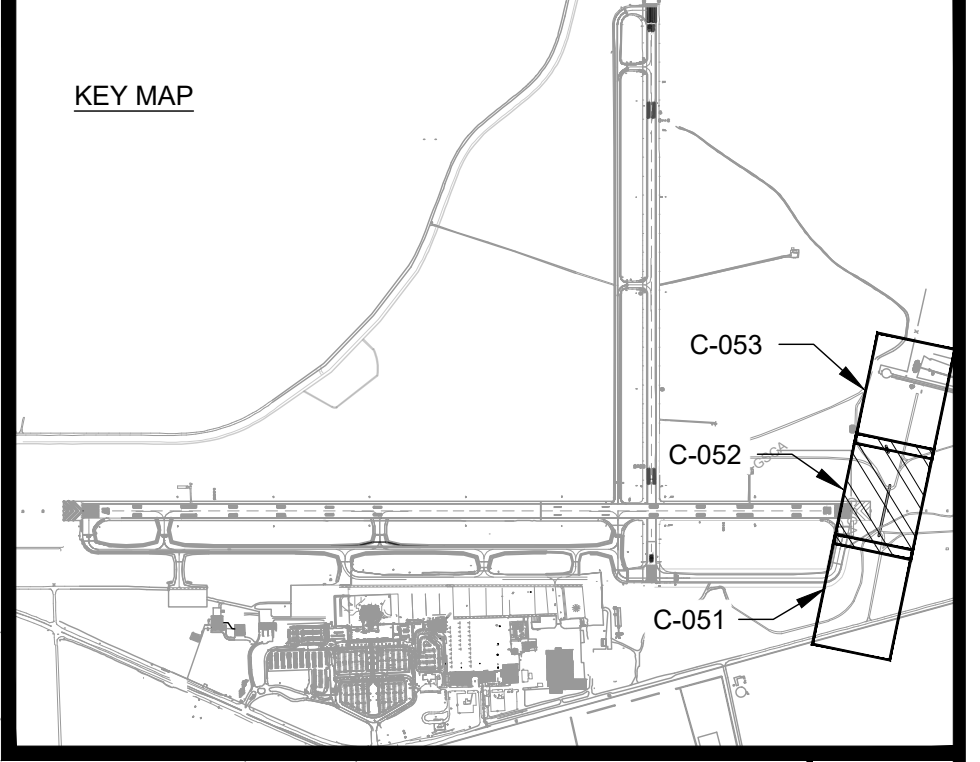
AIR NO: 3-13-011-043-2019
M&H NO: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: CMJ
DRAWN BY: HCA
CHECKED BY: AKM
DO NOT SCALE DRAWINGS

SHEET CONTENTS
ES&PCP -
POST-DEVELOPMENT
DRAINAGE AREA MAP

SHEET NO. of

C-041

C:\AULICK\ENGINEERING\10_M&H - PROJECTS\1001_AGS\100122_AGS DRAINAGE DITCH EAST-WEST\2 DESIGN\2E DWG\2E_4 SHEETS\C-040 ESPCP - DA MAPS.DWG
10/25/2024 9:08:40 AM



AUGUSTA REGIONAL AIRPORT SOUTHEAST DRAINAGE DITCH ENCLOSURE PH II 1501 AVIATION WAY AUGUSTA GA, 30906

ISSUED FOR BID

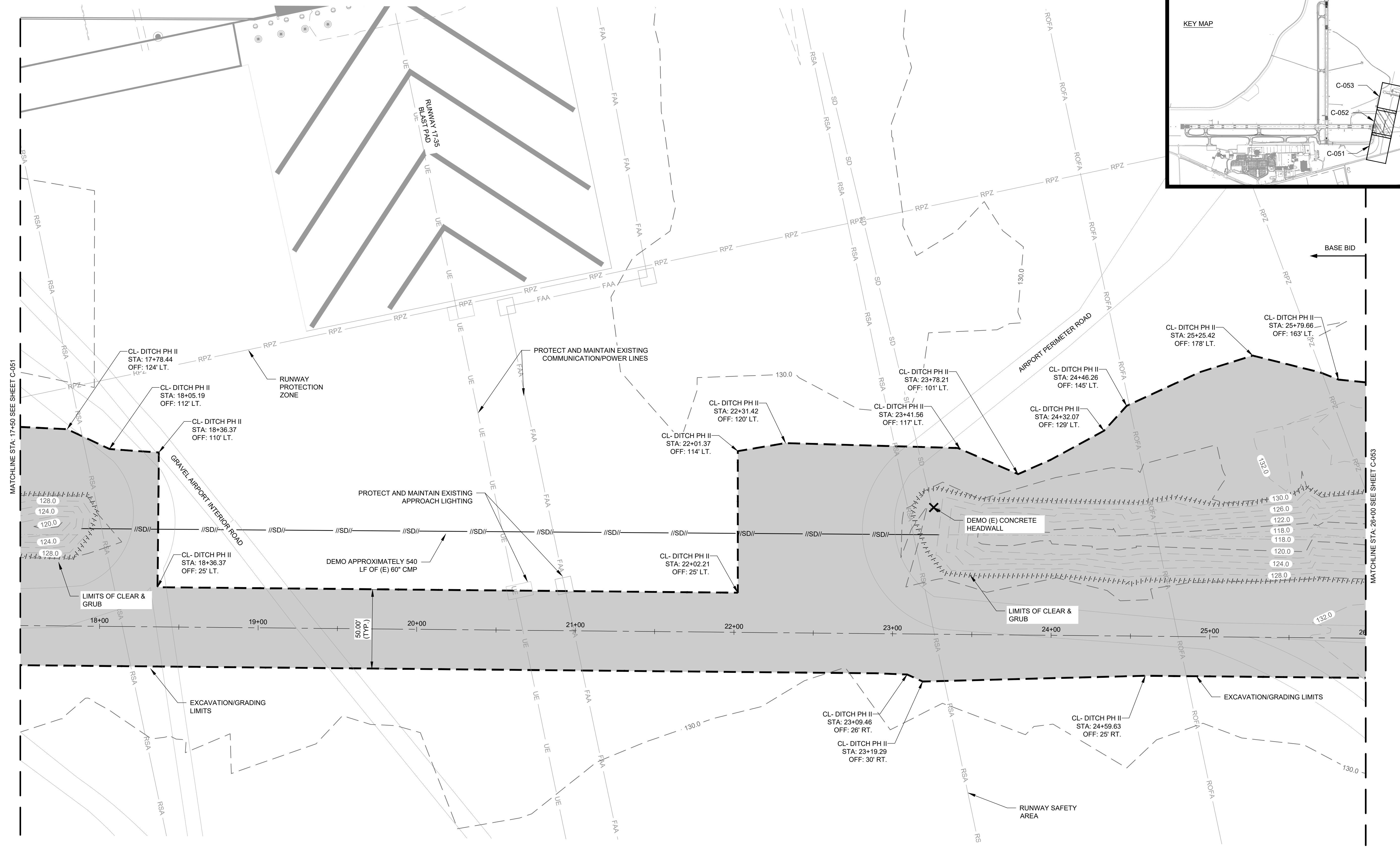
NOT FOR CONSTRUCTION

AGS:
M&H NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: NJH
DRAWN BY: NJH
CHECKED BY: EJS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
DEMOLITION PLAN
STA 17+50 TO 26+00

SHEET NO.

C-052

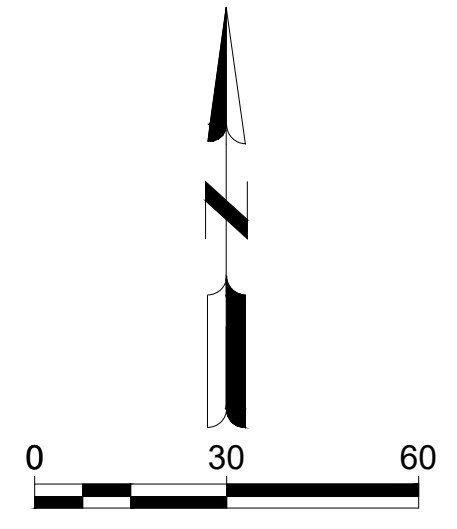


LEGEND

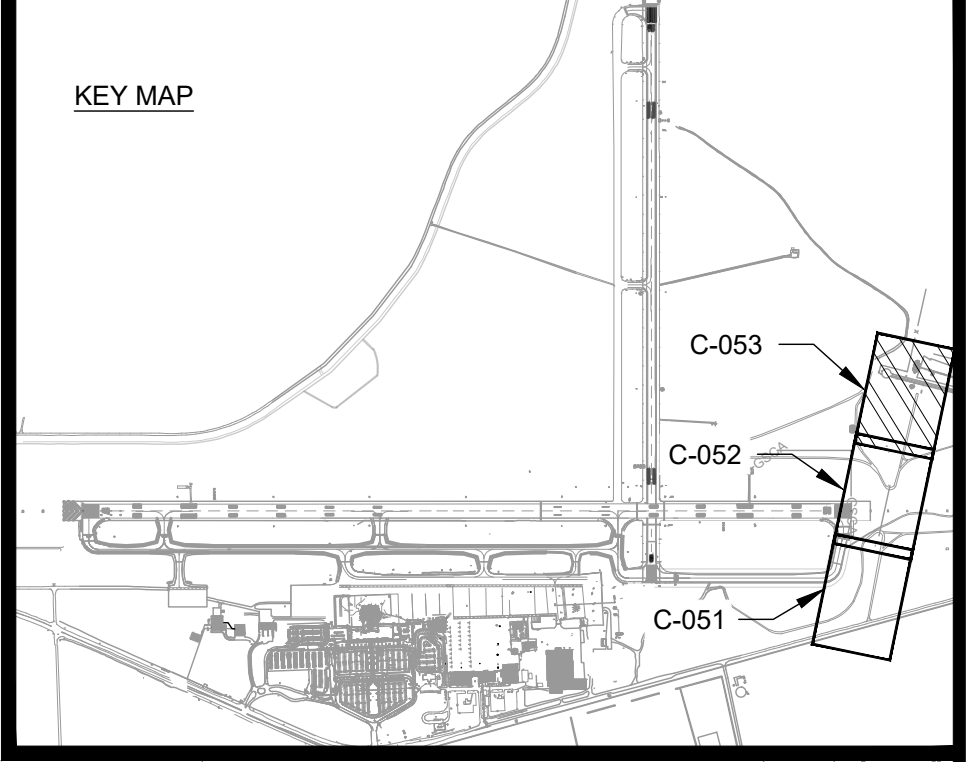
- LIMITS OF DISTURBANCE
- LIMITS OF CLEAR AND GRUB
- STORM DRAINAGE PIPE REMOVAL
- REMOVE (E) STORM STRUCTURE
- PROJECT LIMITS

NOTES:

1. CONTRACTOR SHALL MAINTAIN AND PROTECT ALL EXISTING UTILITIES, AND CIRCUITS UNLESS OTHERWISE NOTED IN THE DEMOLITION PLANS.
2. CONTRACTOR SHALL NOTIFY THE CA TEAM IMMEDIATELY OF ANY DISCREPANCIES IN THE LAYOUT AND SHALL NOT PROCEED UNTIL CLARIFICATION IS PROVIDED.
3. CAUTION! THE CONTRACTOR IS ADVISED TO USE CAUTION WHEN OPERATING TRUCKS OR OTHER CONSTRUCTION EQUIPMENT ON EXISTING PAVEMENTS. EXISTING PAVEMENTS MAY NOT SUPPORT CONSTRUCTION TRAFFIC. ANY DAMAGE TO EXISTING PAVEMENTS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
4. WARNING: THERE ARE A NUMBER OF EXISTING UTILITIES, INCLUDING DRAINAGE, ELECTRICAL, AND COMMUNICATIONS CABLES, TRAVERSING THE SITE. THE DESIGNER HAS ATTEMPTED TO DEPICT THE APPROXIMATE LOCATIONS OF THESE ITEMS CURRENTLY IN PLACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE EVERY EXISTING ITEM LOCATED, FLAGGED AND IDENTIFIED PRIOR TO START UP OF CONSTRUCTION AND TO MAINTAIN VISIBLE LOCATION THROUGHOUT THE CONSTRUCTION DURATION. THIS SHALL INCLUDE COORDINATION WITH ALL NECESSARY AGENCIES INCLUDING THE AIRPORT. ANY DAMAGE DONE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL REPAIR ANY UTILITY DAMAGED DURING THE CONSTRUCTION BY THE CONTRACTOR'S OPERATIONS AT NO COST TO THE AIRPORT.
5. THE BASE BID SHALL CONSIST OF THE CLEARING AND GRUBBING OF THE EXISTING DITCH IN ITS ENTIRETY.
6. IN THE EVENT THAT BID ALTERNATE 1 IS NOT AWARDED THE DEMOLITION LIMITS SHALL BE LIMITED TO THE GRADING LIMITS SHOWN ON SHEET C-104.



X:\0119700\210463\01\TECH\DRAWINGS\C-051 DEMOLITION PLAN.DWG 10/22/2024 9:13:45 AM



AUGUSTA REGIONAL AIRPORT SOUTHEAST DRAINAGE DITCH ENCLOSURE PH II 1501 AVIATION WAY AUGUSTA GA, 30906

ISSUED FOR BID

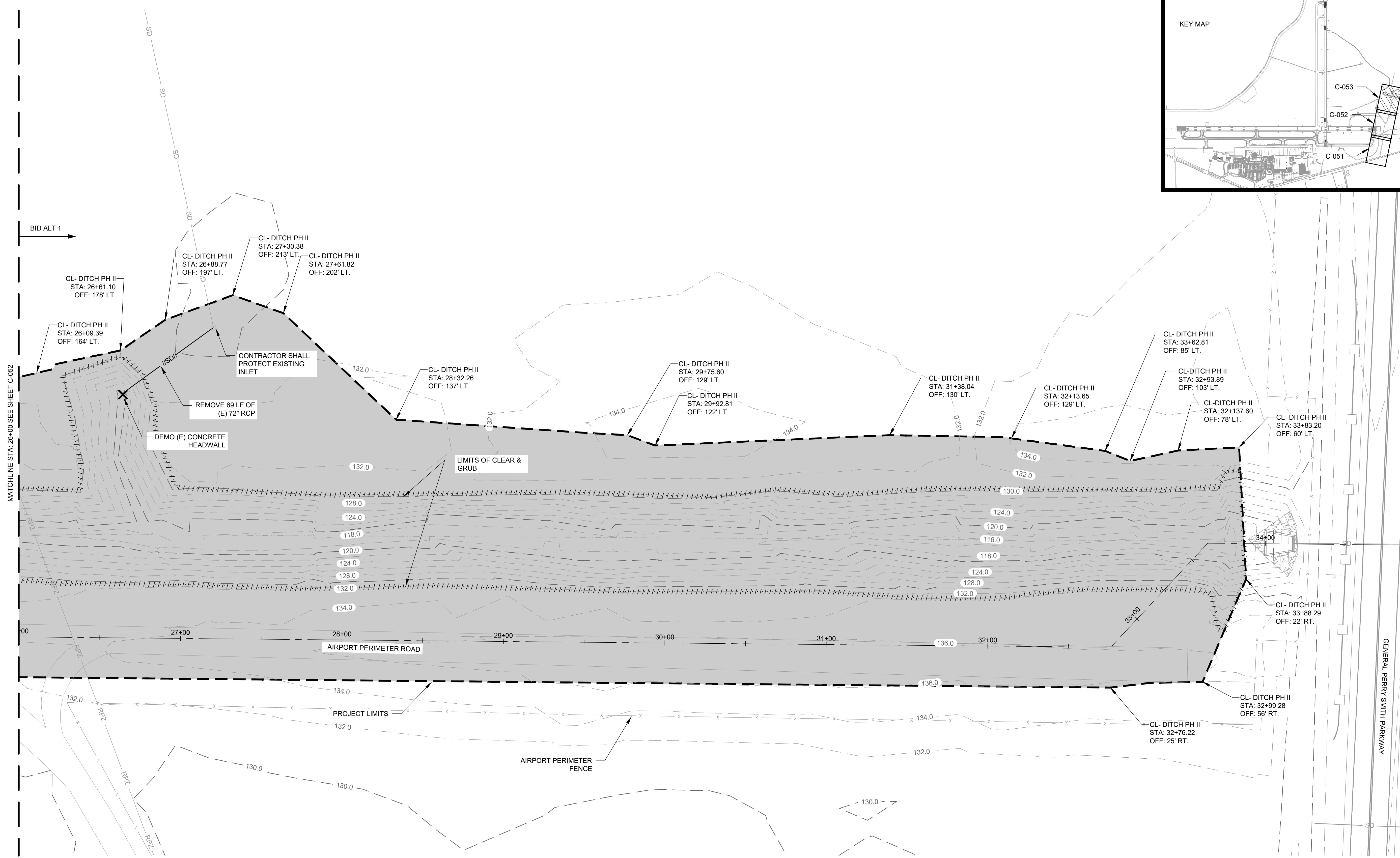
NOT FOR CONSTRUCTION

AIG:
M&H NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: NJH
DRAWN BY: NJH
CHECKED BY: EJS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
DEMOLITION PLAN
STA 26+00 TO 34+50

SHEET NO.

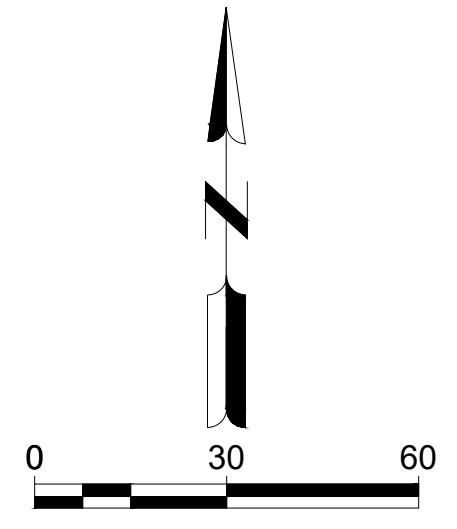
C-053



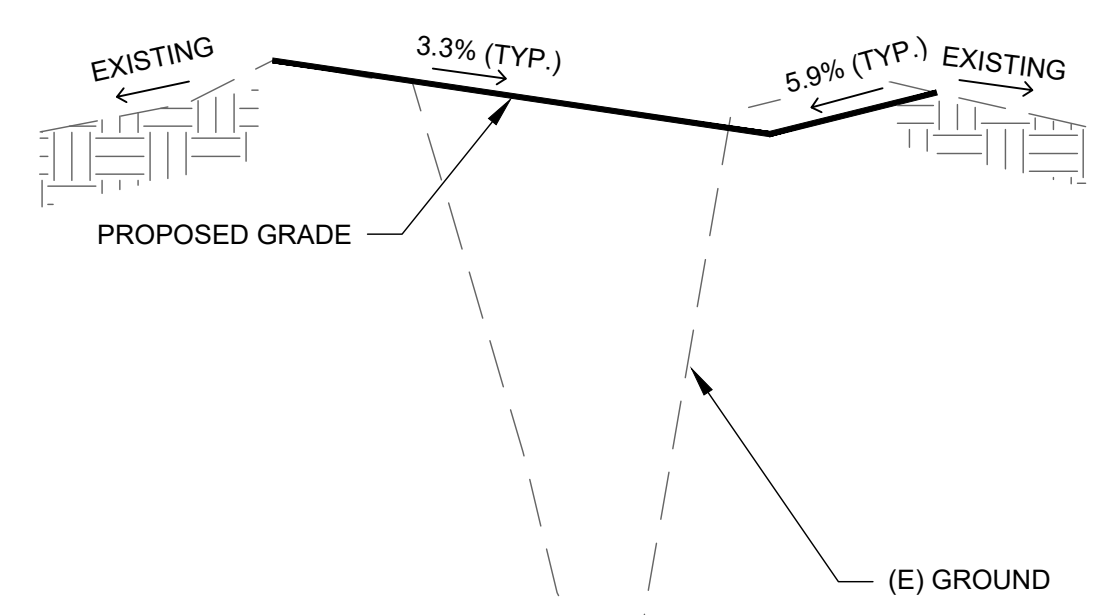
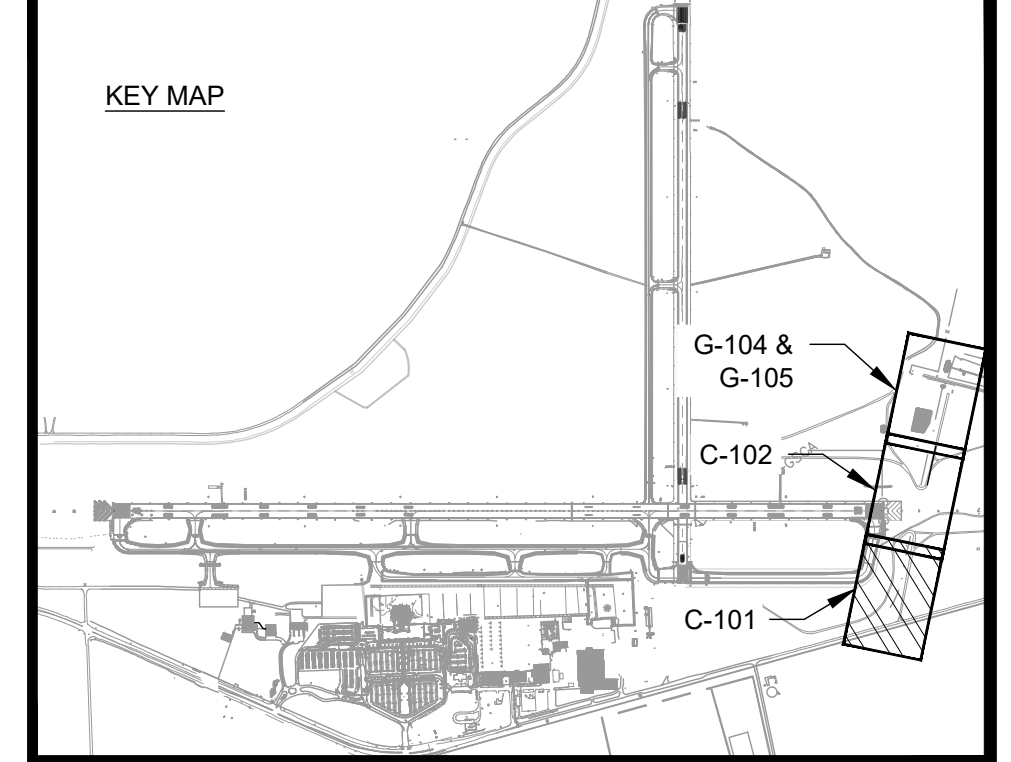
LEGEND

	LIMITS OF DISTURBANCE
	LIMITS OF CLEAR AND GRUB
	STORM DRAINAGE PIPE REMOVAL
	REMOVE (E) STORM STRUCTURE
	PROJECT LIMITS

- NOTES:**
- CONTRACTOR SHALL MAINTAIN AND PROTECT ALL EXISTING UTILITIES, AND CIRCUITS UNLESS OTHERWISE NOTED IN THE DEMOLITION PLANS.
 - CONTRACTOR SHALL NOTIFY THE CA TEAM IMMEDIATELY OF ANY DISCREPANCIES IN THE LAYOUT AND SHALL NOT PROCEED UNTIL CLARIFICATION IS PROVIDED.
 - CAUTION! THE CONTRACTOR IS ADVISED TO USE CAUTION WHEN OPERATING TRUCKS OR OTHER CONSTRUCTION EQUIPMENT ON EXISTING PAVEMENTS. EXISTING PAVEMENTS MAY NOT SUPPORT CONSTRUCTION TRAFFIC. ANY DAMAGE TO EXISTING PAVEMENTS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
 - WARNING: THERE ARE A NUMBER OF EXISTING UTILITIES, INCLUDING DRAINAGE, ELECTRICAL, AND COMMUNICATIONS CABLES, TRAVERSING THE SITE. THE DESIGNER HAS ATTEMPTED TO DEPICT THE APPROXIMATE LOCATIONS OF THESE ITEMS CURRENTLY IN PLACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE EVERY EXISTING ITEM LOCATED, FLAGGED AND IDENTIFIED PRIOR TO START UP OF CONSTRUCTION AND TO MAINTAIN VISIBLE LOCATION THROUGHOUT THE CONSTRUCTION DURATION. THIS SHALL INCLUDE COORDINATION WITH ALL NECESSARY AGENCIES INCLUDING THE AIRPORT. ANY DAMAGE DONE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL REPAIR ANY UTILITY DAMAGED DURING THE CONSTRUCTION BY THE CONTRACTOR'S OPERATIONS AT NO COST TO THE AIRPORT.

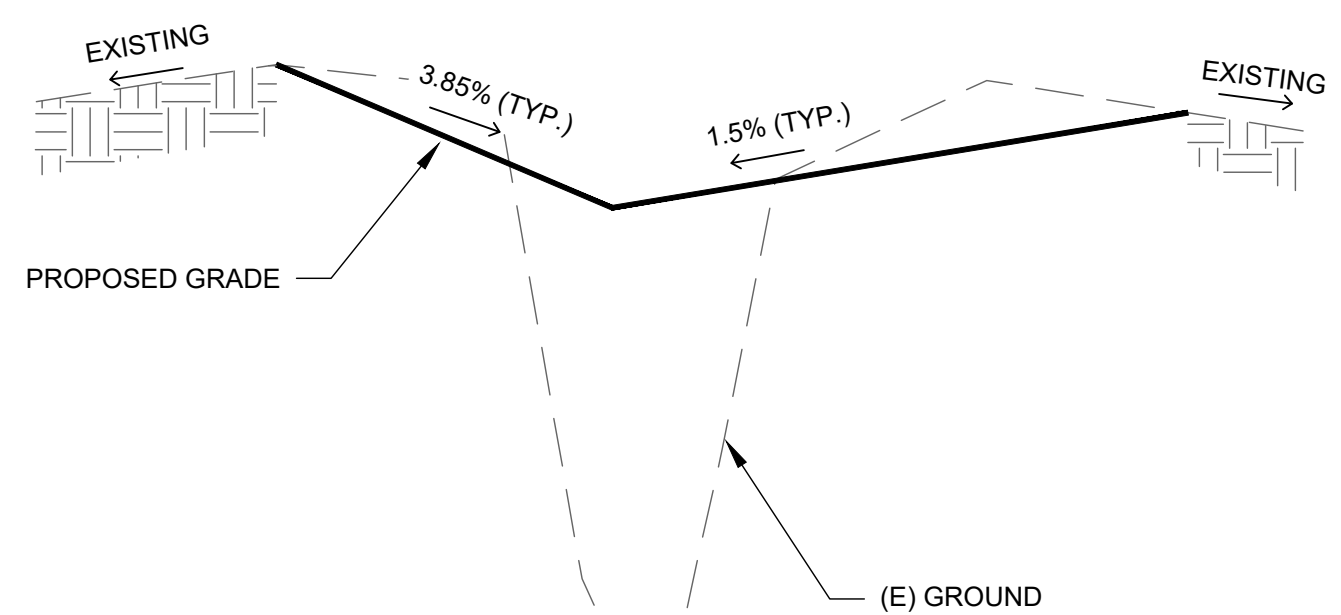


X:\0119700\210463\01TECH\DRAWINGS\C-051 DEMOLITION PLAN.DWG
10/22/2024 9:13:55 AM



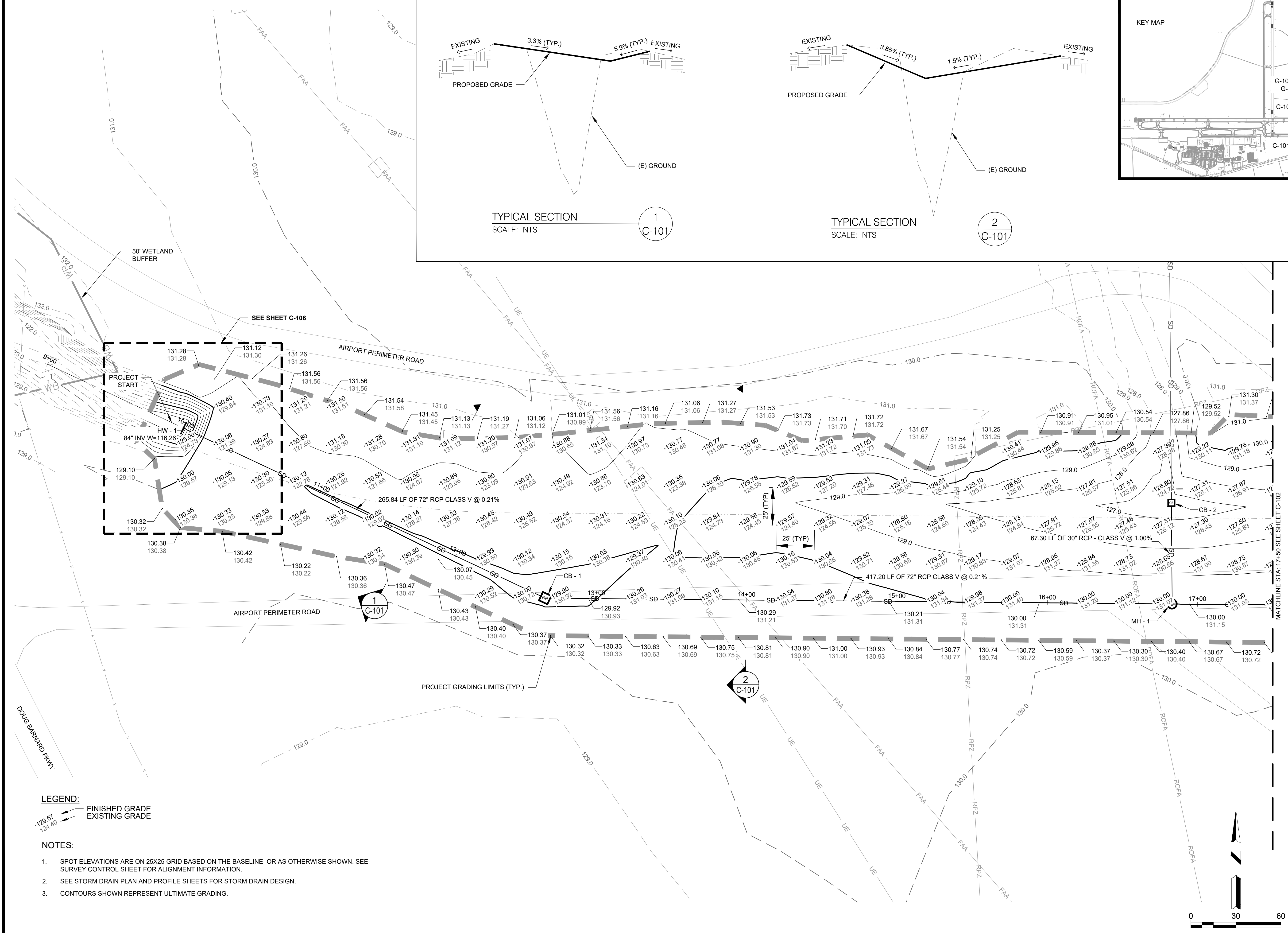
TYPICAL SECTION
SCALE: NTS

1
C-101



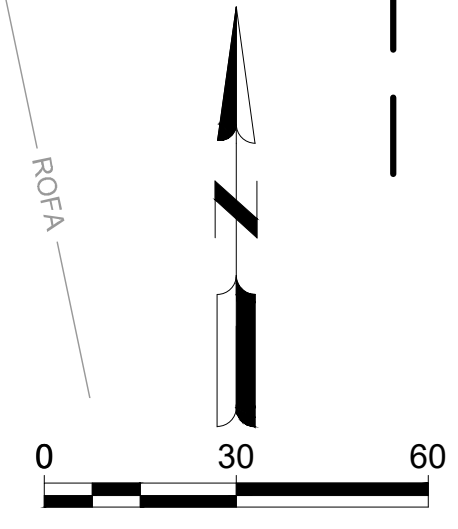
TYPICAL SECTION
SCALE: NTS

2
C-101



LEGEND:
 FINISHED GRADE
 EXISTING GRADE

- NOTES:**
- SPOT ELEVATIONS ARE ON 25X25 GRID BASED ON THE BASELINE OR AS OTHERWISE SHOWN. SEE SURVEY CONTROL SHEET FOR ALIGNMENT INFORMATION.
 - SEE STORM DRAIN PLAN AND PROFILE SHEETS FOR STORM DRAIN DESIGN.
 - CONTOURS SHOWN REPRESENT ULTIMATE GRADING.



AUGUSTA REGIONAL AIRPORT SOUTHEAST DRAINAGE DITCH ENCLOSURE PH II 1501 AVIATION WAY AUGUSTA GA, 30906

ISSUED FOR BID

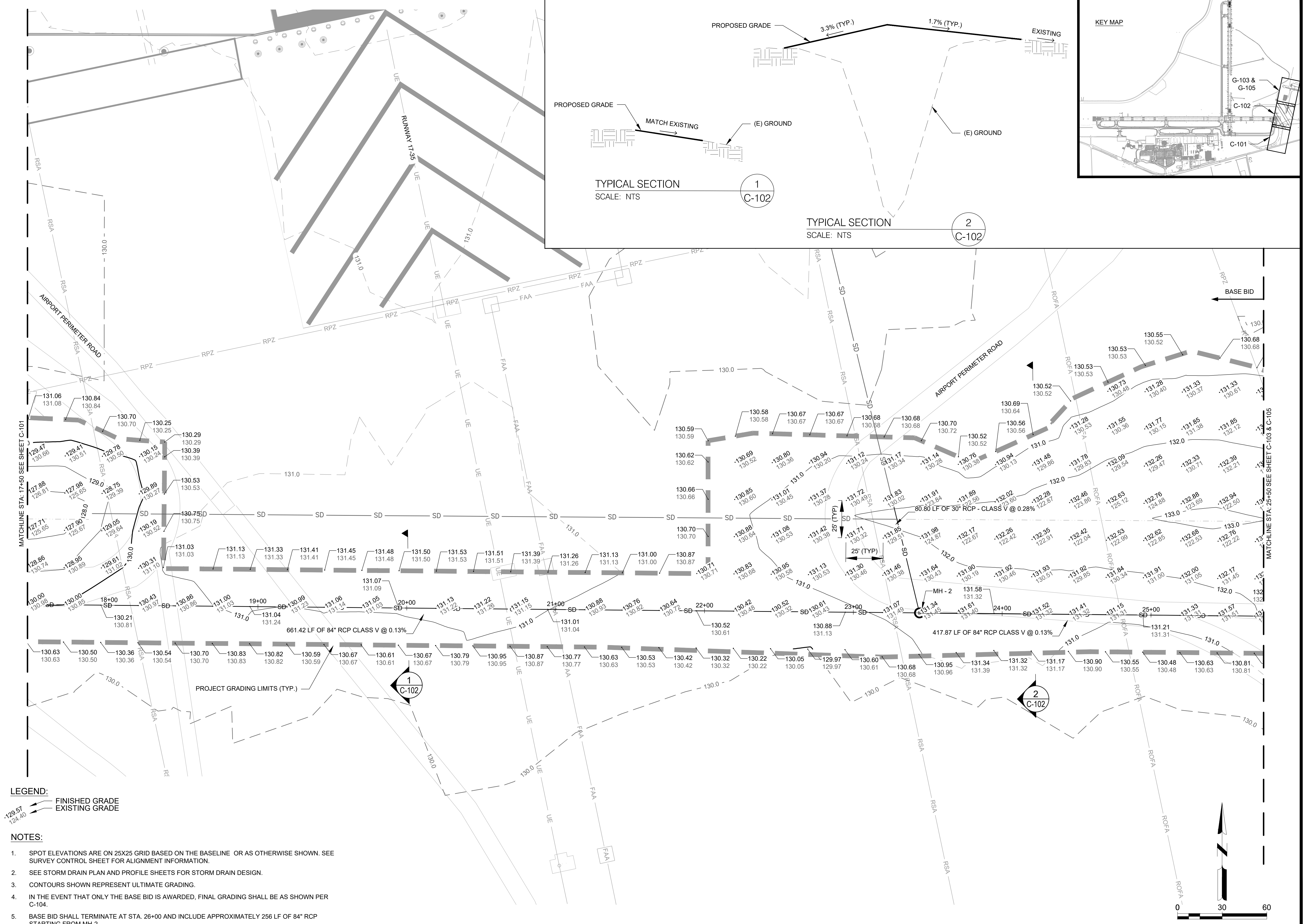
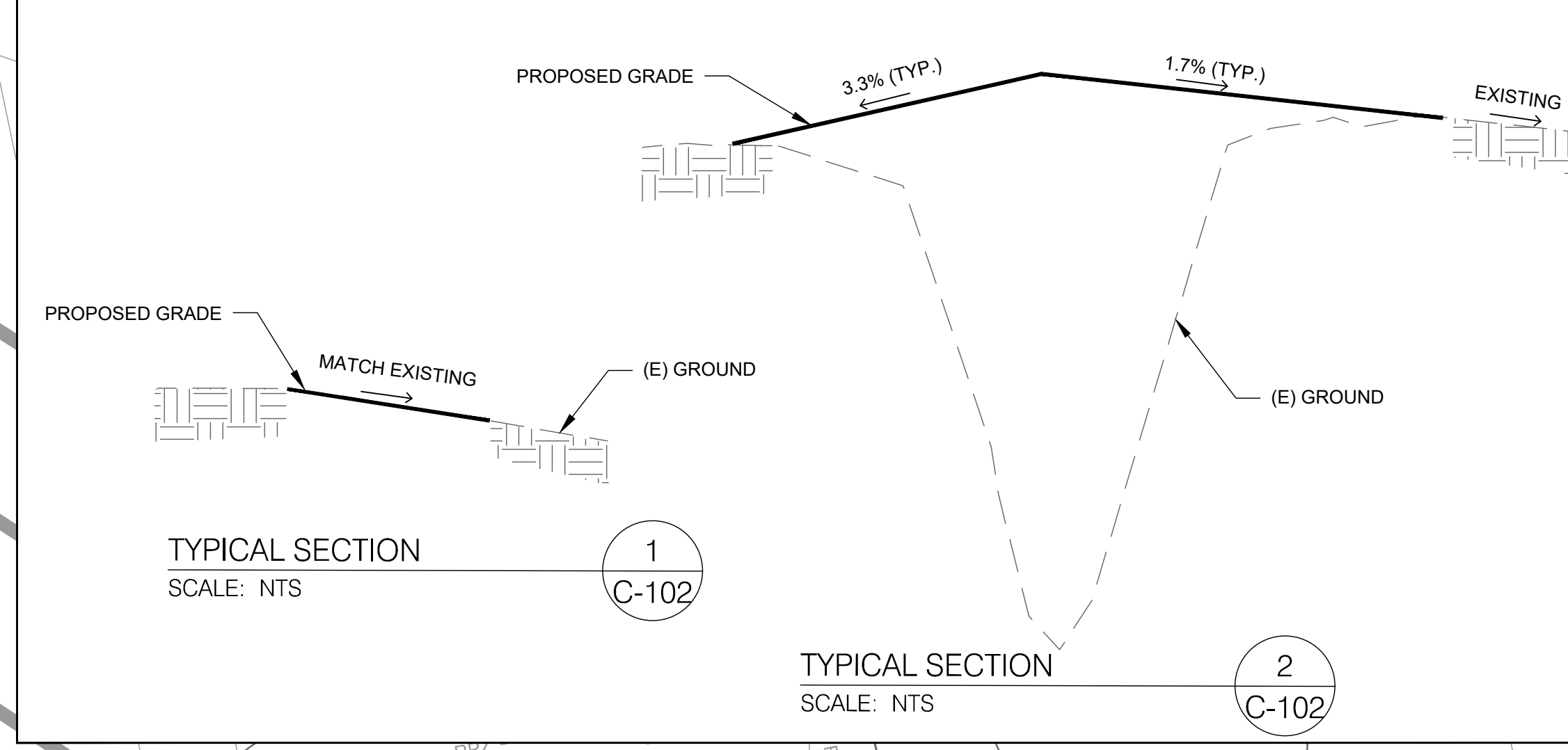
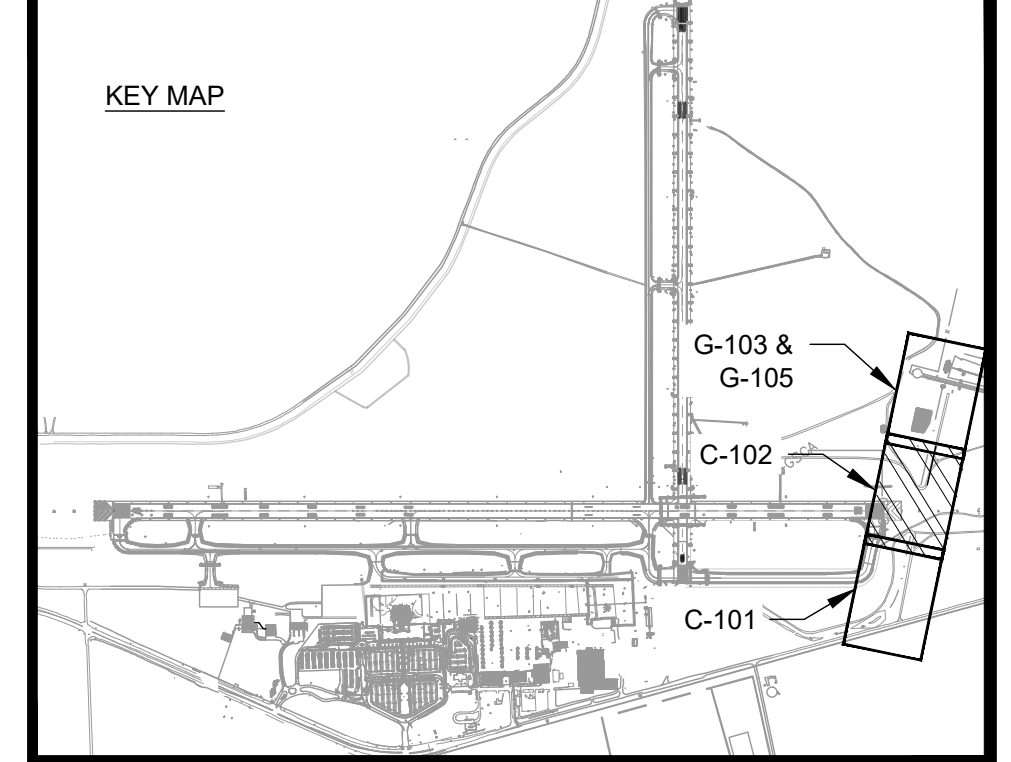
NOT FOR CONSTRUCTION

AGS:
M&H NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: NJH
DRAWN BY: NJH
CHECKED BY: EJS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
GRADING & DRAINAGE
PLAN STA 10+00 TO
17+50

SHEET NO.

C-101



AUGUSTA REGIONAL AIRPORT SOUTHEAST DRAINAGE DITCH ENCLOSURE PH II 1501 AVIATION WAY AUGUSTA GA, 30906

ISSUED FOR BID

NOT FOR CONSTRUCTION

AGS:
M&H NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: NJH
DRAWN BY: NJH
CHECKED BY: EJS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
GRADING & DRAINAGE
PLAN STA 17+50 TO
26+00

SHEET NO.

C-102

AUGUSTA REGIONAL AIRPORT SOUTHEAST DRAINAGE DITCH ENCLOSURE PH II 1501 AVIATION WAY AUGUSTA GA, 30906

ISSUED FOR BID

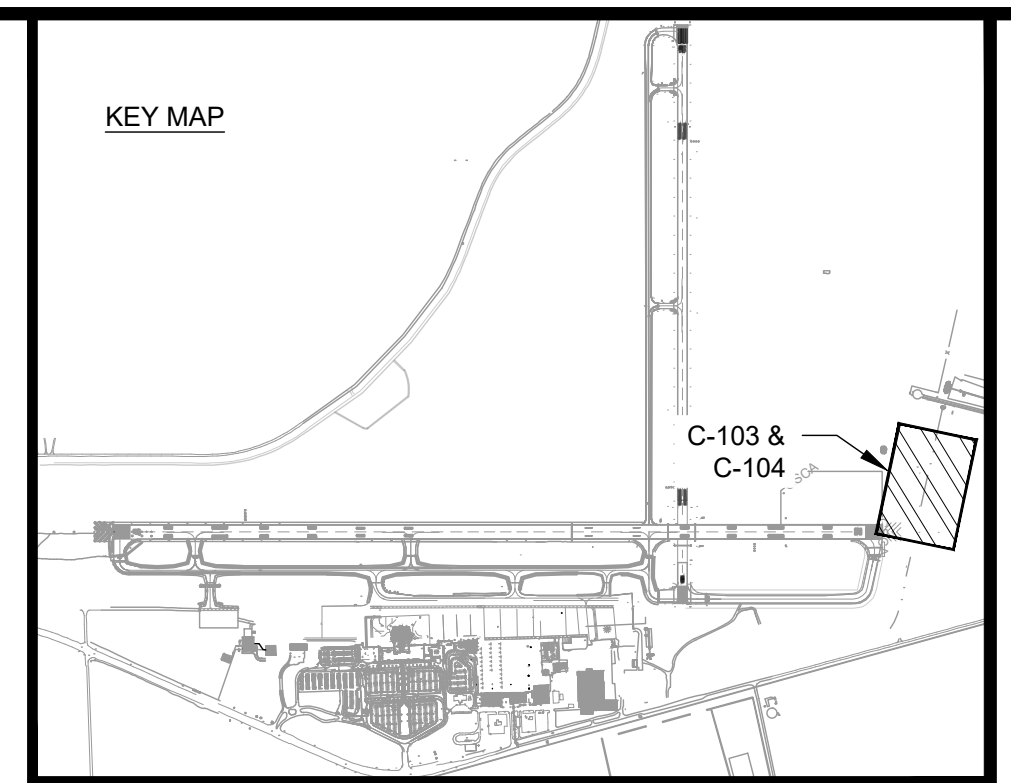
NOT FOR CONSTRUCTION

AGS:
M&H NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: NJH
DRAWN BY: NJH
CHECKED BY: EJS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
GRADING & DRAINAGE
PLAN STA 26+00 TO
34+50 - BASE BID

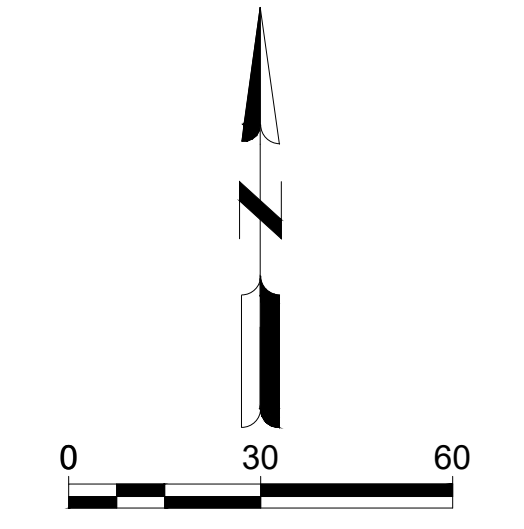
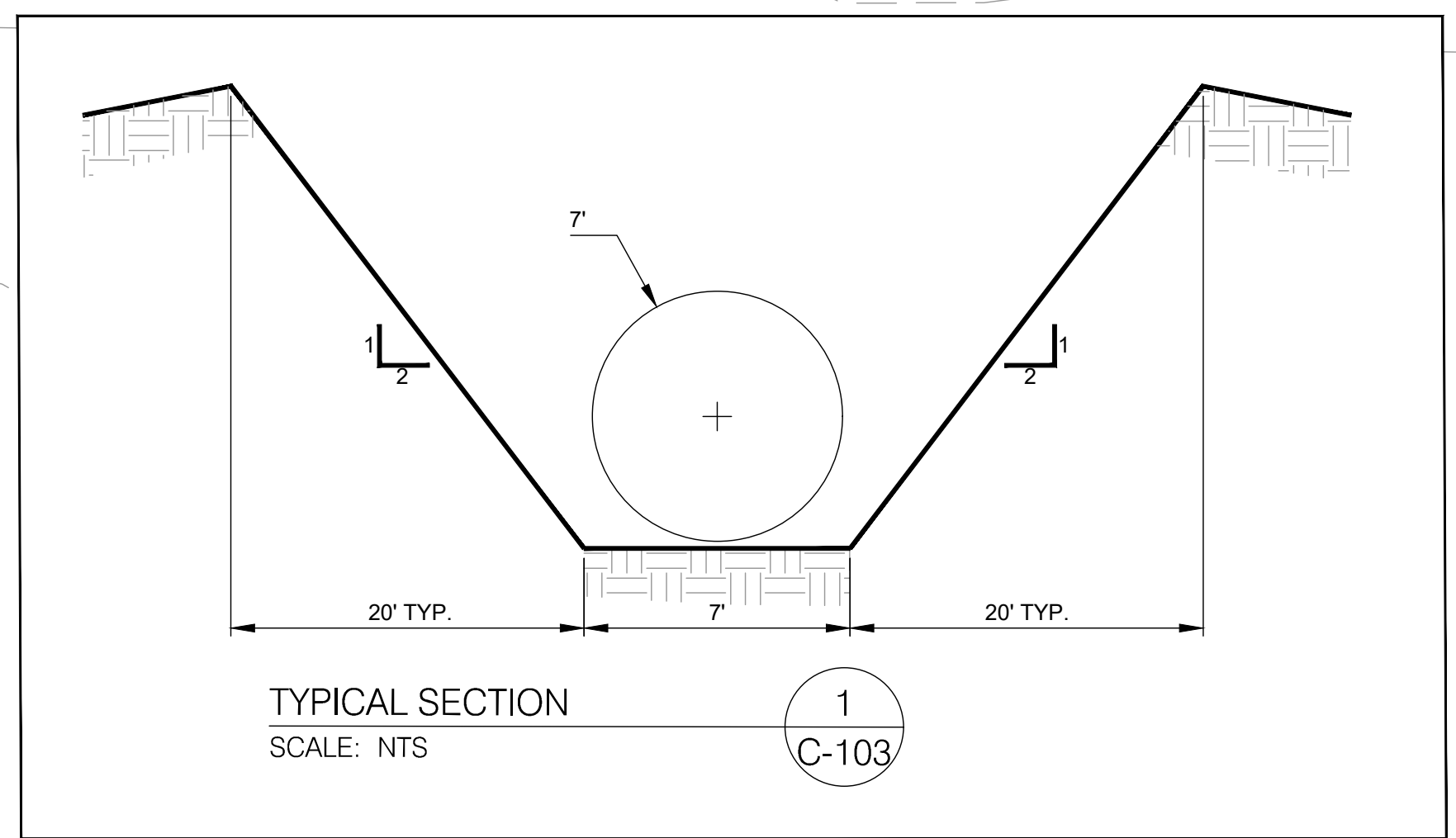
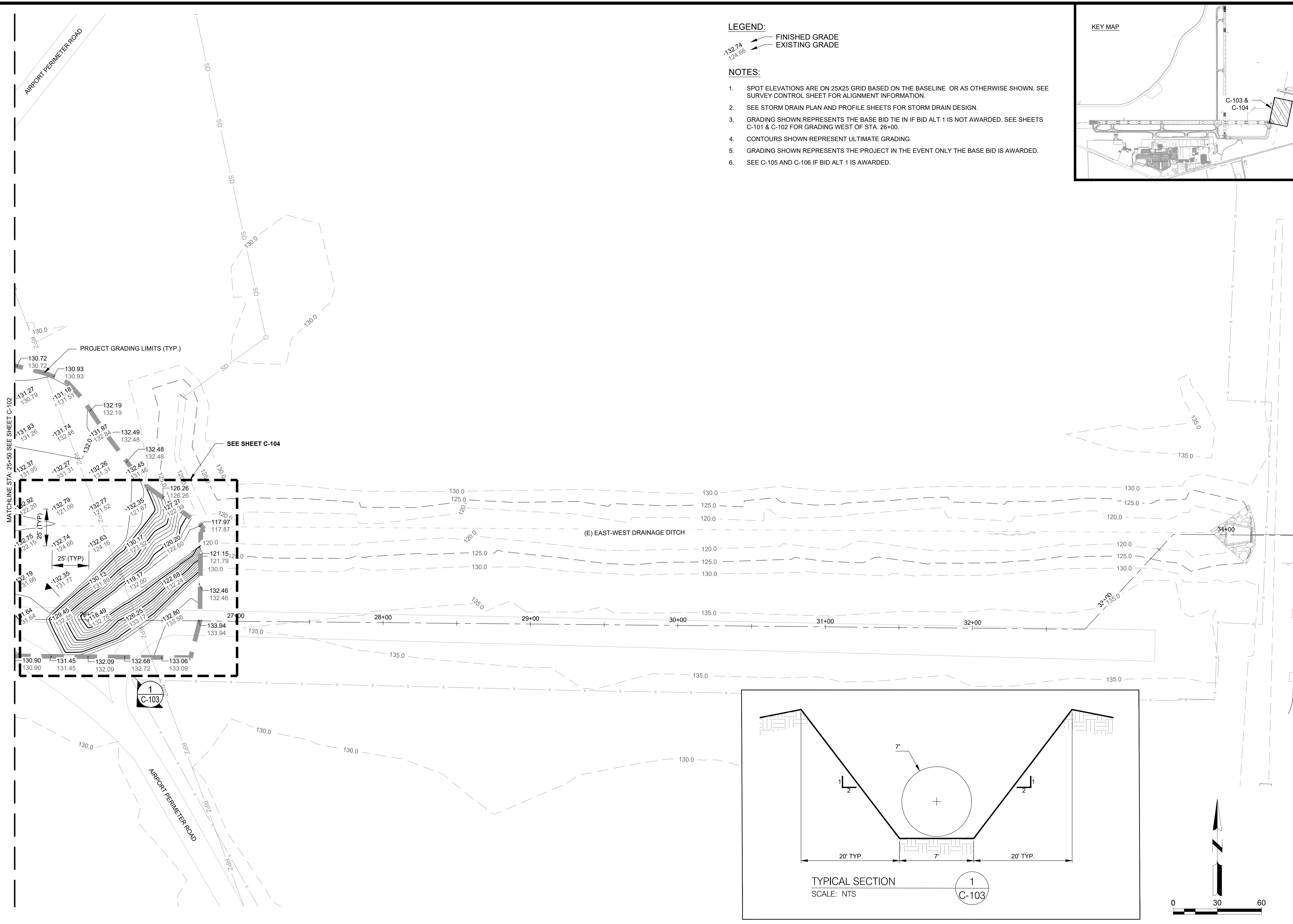
SHEET NO.

C-103

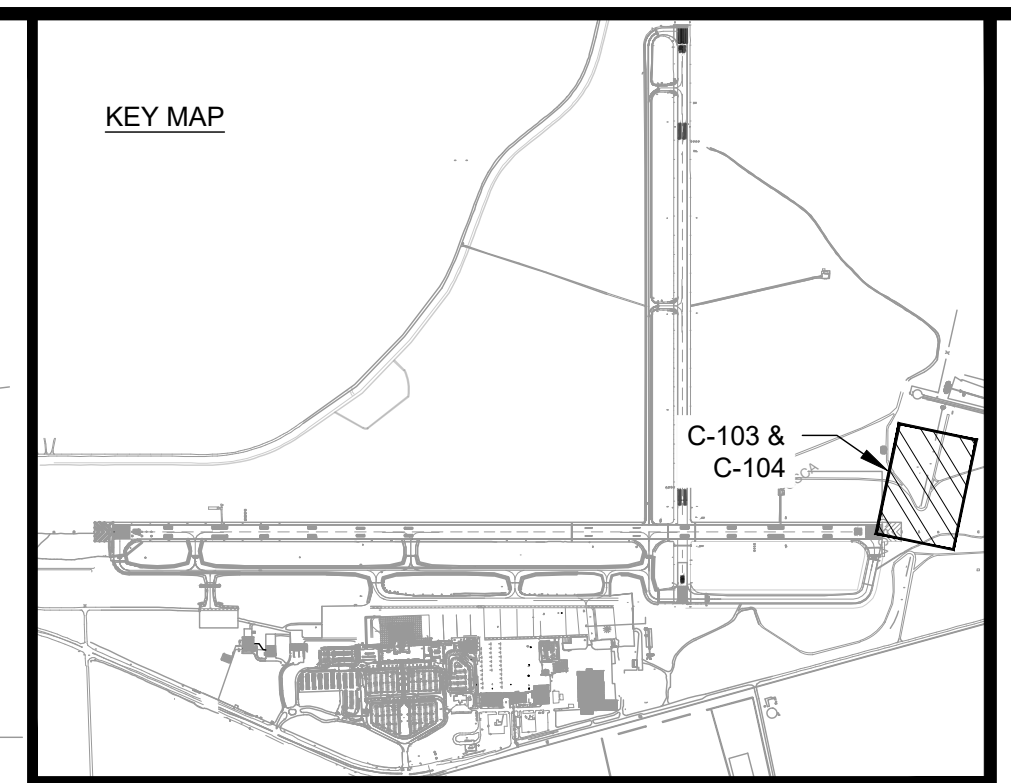


LEGEND:
 FINISHED GRADE
 EXISTING GRADE

- NOTES:**
1. SPOT ELEVATIONS ARE ON 25X25 GRID BASED ON THE BASELINE OR AS OTHERWISE SHOWN. SEE SURVEY CONTROL SHEET FOR ALIGNMENT INFORMATION.
 2. SEE STORM DRAIN PLAN AND PROFILE SHEETS FOR STORM DRAIN DESIGN.
 3. GRADING SHOWN REPRESENTS THE BASE BID TIE IN IF BID ALT 1 IS NOT AWARDED. SEE SHEETS C-101 & C-102 FOR GRADING WEST OF STA. 26+00.
 4. CONTOURS SHOWN REPRESENT ULTIMATE GRADING.
 5. GRADING SHOWN REPRESENTS THE PROJECT IN THE EVENT ONLY THE BASE BID IS AWARDED.
 6. SEE C-105 AND C-106 IF BID ALT 1 IS AWARDED.



X:\0119700\210463.01\TECH\DRAWINGS\XREF\C-104 GRADING AND DRAINAGE PLAN - BASE BID.DWG
10/22/2024 9:14:54 AM



© Copyright 2022 Mead & Hunt, Inc.
This document, or any portion thereof, shall not be duplicated, disclosed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt shall not be responsible for any unauthorized use of, or alteration to these documents.

AUGUSTA REGIONAL AIRPORT SOUTHEAST DRAINAGE DITCH ENCLOSURE PH II 1501 AVIATION WAY AUGUSTA GA, 30906

ISSUED
ISSUED FOR BID

NOT FOR CONSTRUCTION

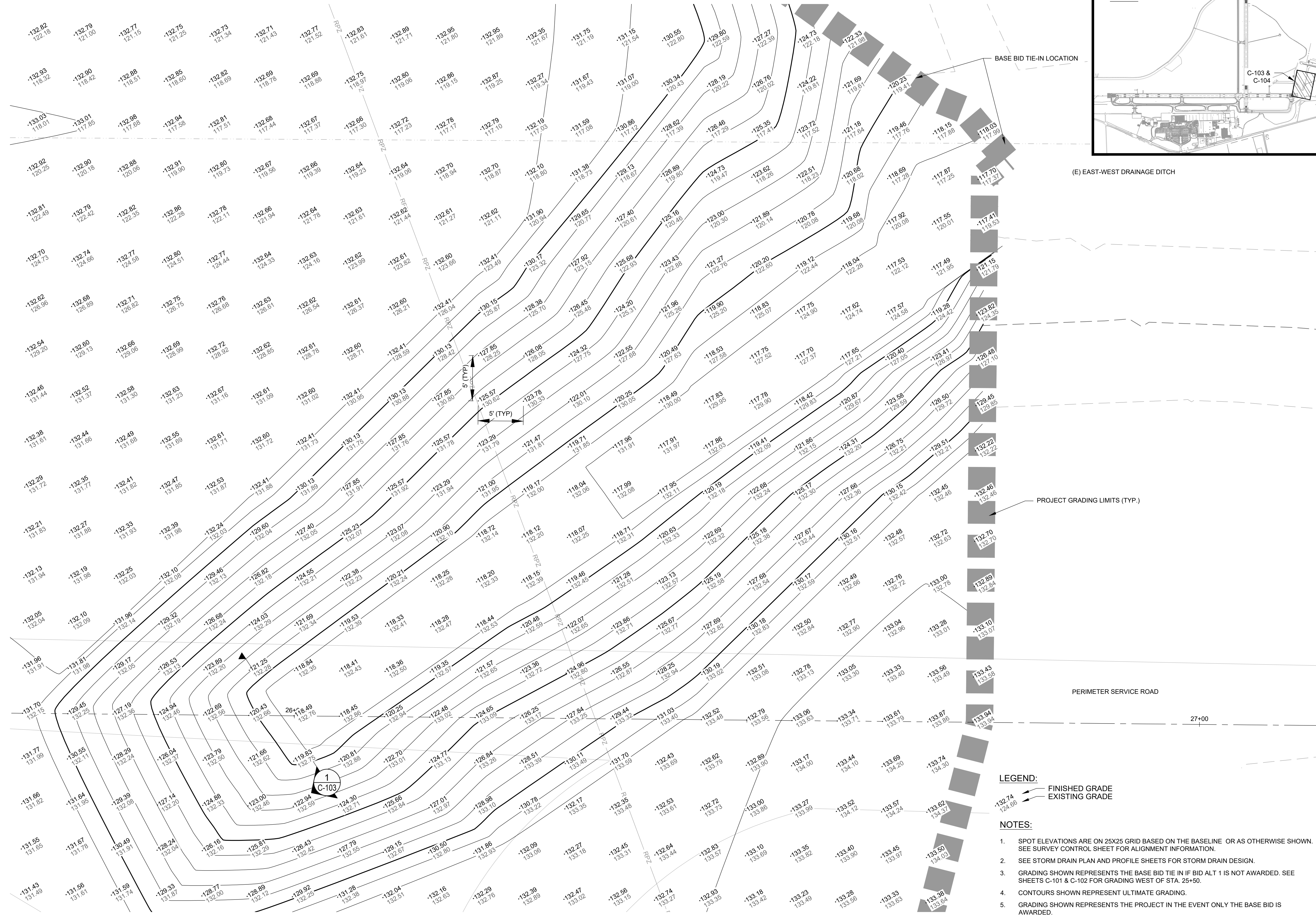
AGS:
M&H NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: NJH
DRAWN BY: NJH
CHECKED BY: EJS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
GRADING & DRAINAGE
PLAN - BASE BID
TIE-IN

SHEET NO.

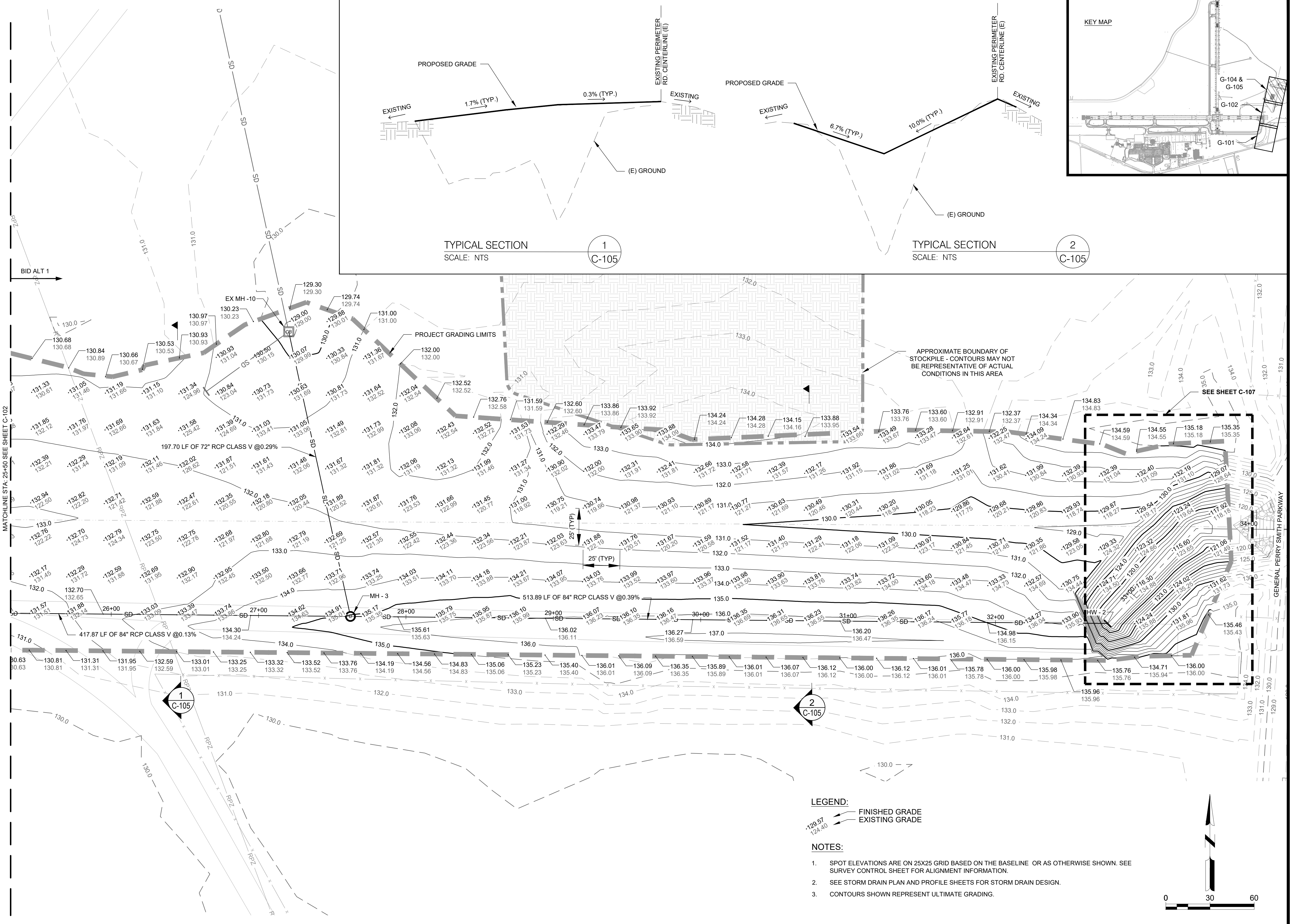
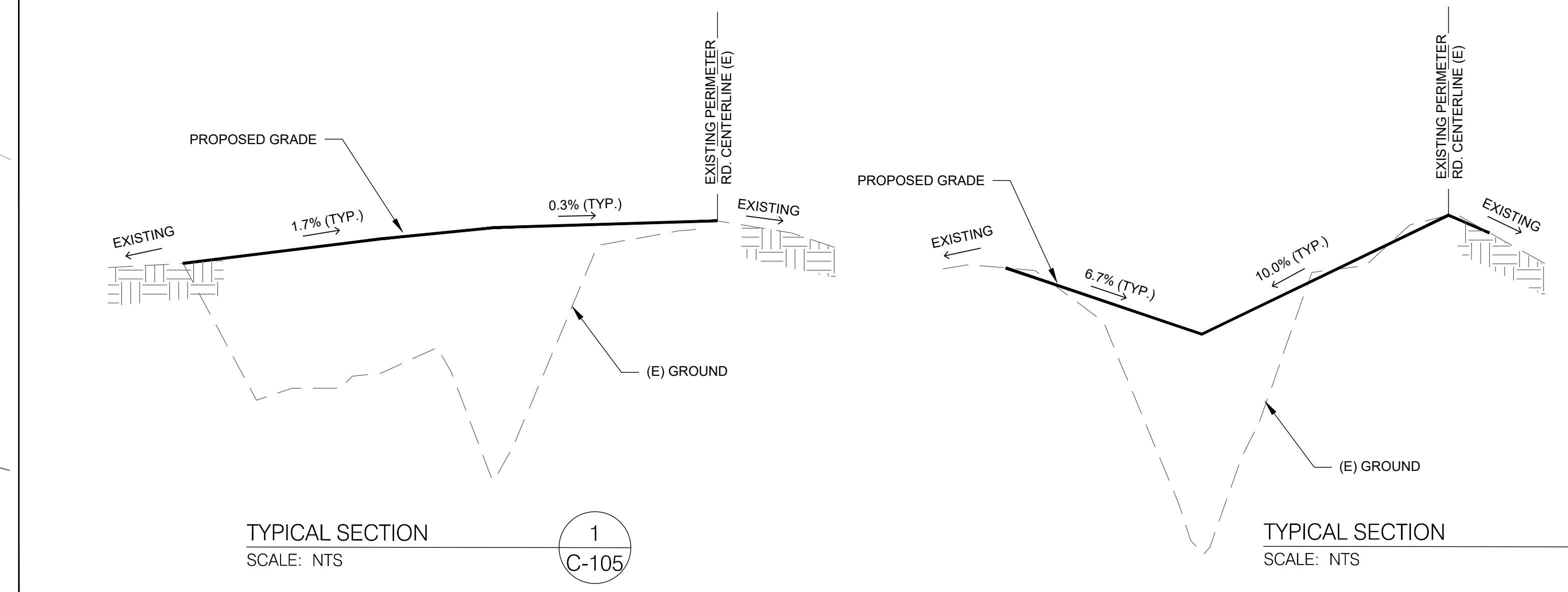
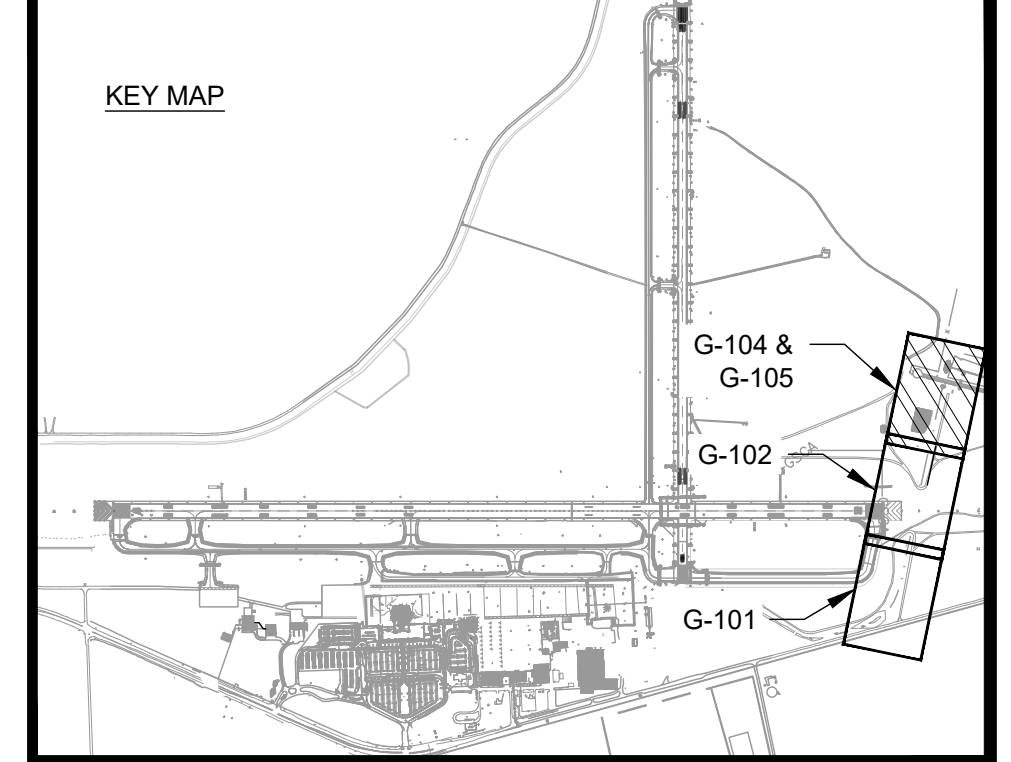
C-104

X:\0119700\210463.01\TECH\DRAWINGS\REF\C-104 GRADING AND DRAINAGE PLAN - BASE BID.DWG
10/22/2024 9:15:09 AM



LEGEND:
 FINISHED GRADE
 EXISTING GRADE

- NOTES:**
- SPOT ELEVATIONS ARE ON 25X25 GRID BASED ON THE BASELINE OR AS OTHERWISE SHOWN. SEE SURVEY CONTROL SHEET FOR ALIGNMENT INFORMATION.
 - SEE STORM DRAIN PLAN AND PROFILE SHEETS FOR STORM DRAIN DESIGN.
 - GRADING SHOWN REPRESENTS THE BASE BID TIE IN IF BID ALT 1 IS NOT AWARDED. SEE SHEETS C-101 & C-102 FOR GRADING WEST OF STA. 25+50.
 - CONTOURS SHOWN REPRESENT ULTIMATE GRADING.
 - GRADING SHOWN REPRESENTS THE PROJECT IN THE EVENT ONLY THE BASE BID IS AWARDED.



AUGUSTA REGIONAL AIRPORT SOUTHEAST DRAINAGE DITCH ENCLOSURE PH II 1501 AVIATION WAY AUGUSTA GA, 30906

ISSUED FOR BID

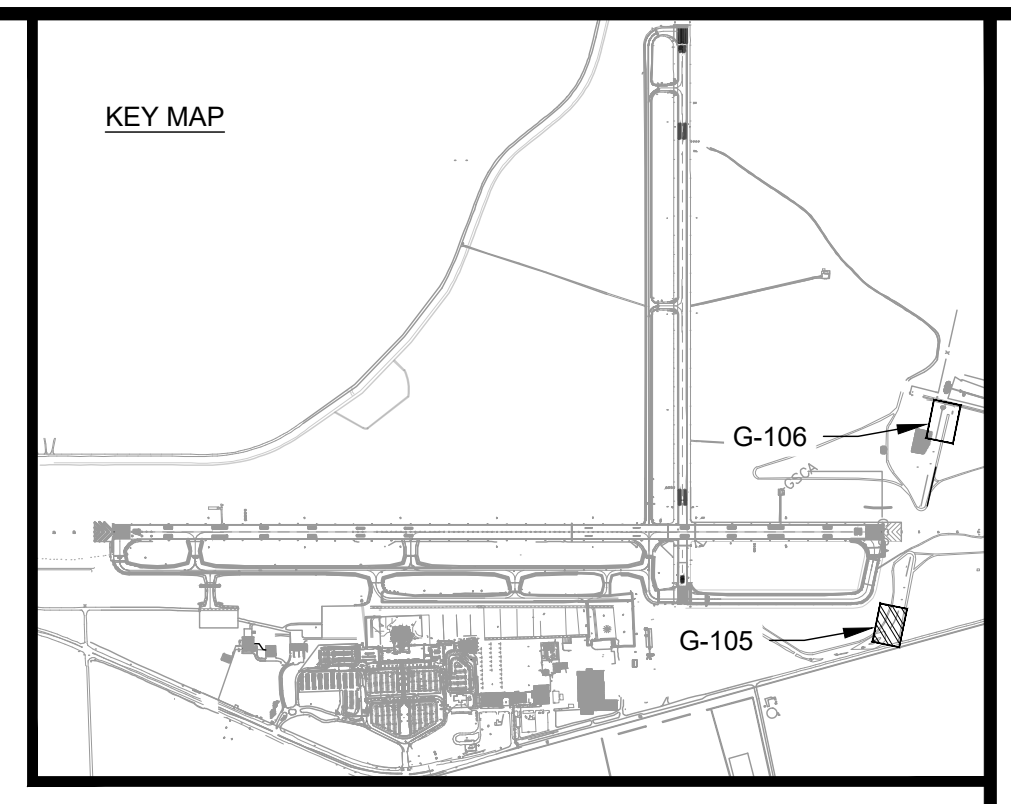
NOT FOR CONSTRUCTION

AGS:
M&H NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: NJH
DRAWN BY: NJH
CHECKED BY: EJS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
GRADING & DRAINAGE
PLAN STA 26+00 TO
34+50 - BID ALT

SHEET NO.

C-105



AUGUSTA REGIONAL AIRPORT SOUTHEAST DRAINAGE DITCH ENCLOSURE PH II 1501 AVIATION WAY AUGUSTA GA, 30906

ISSUED FOR BID

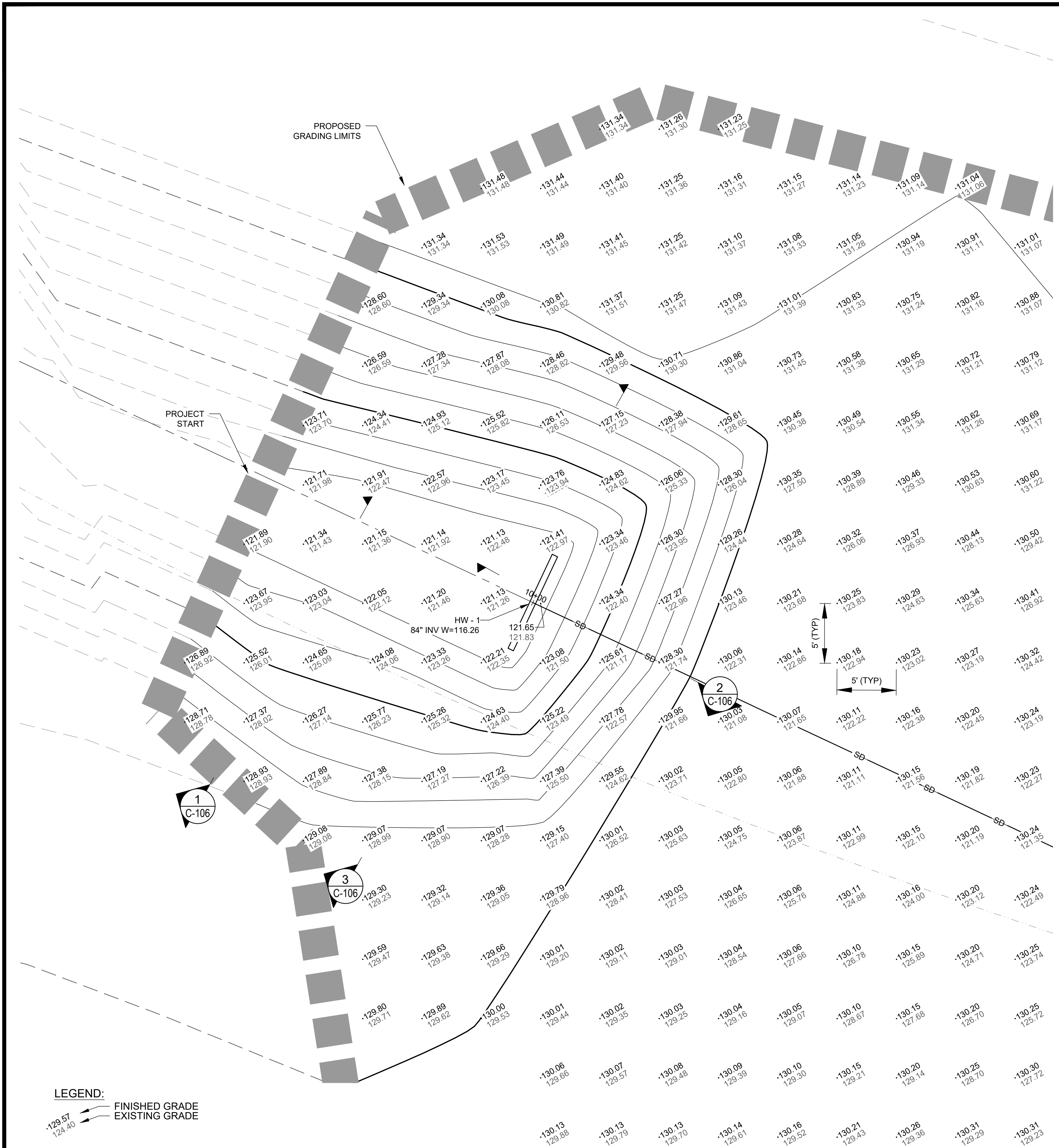
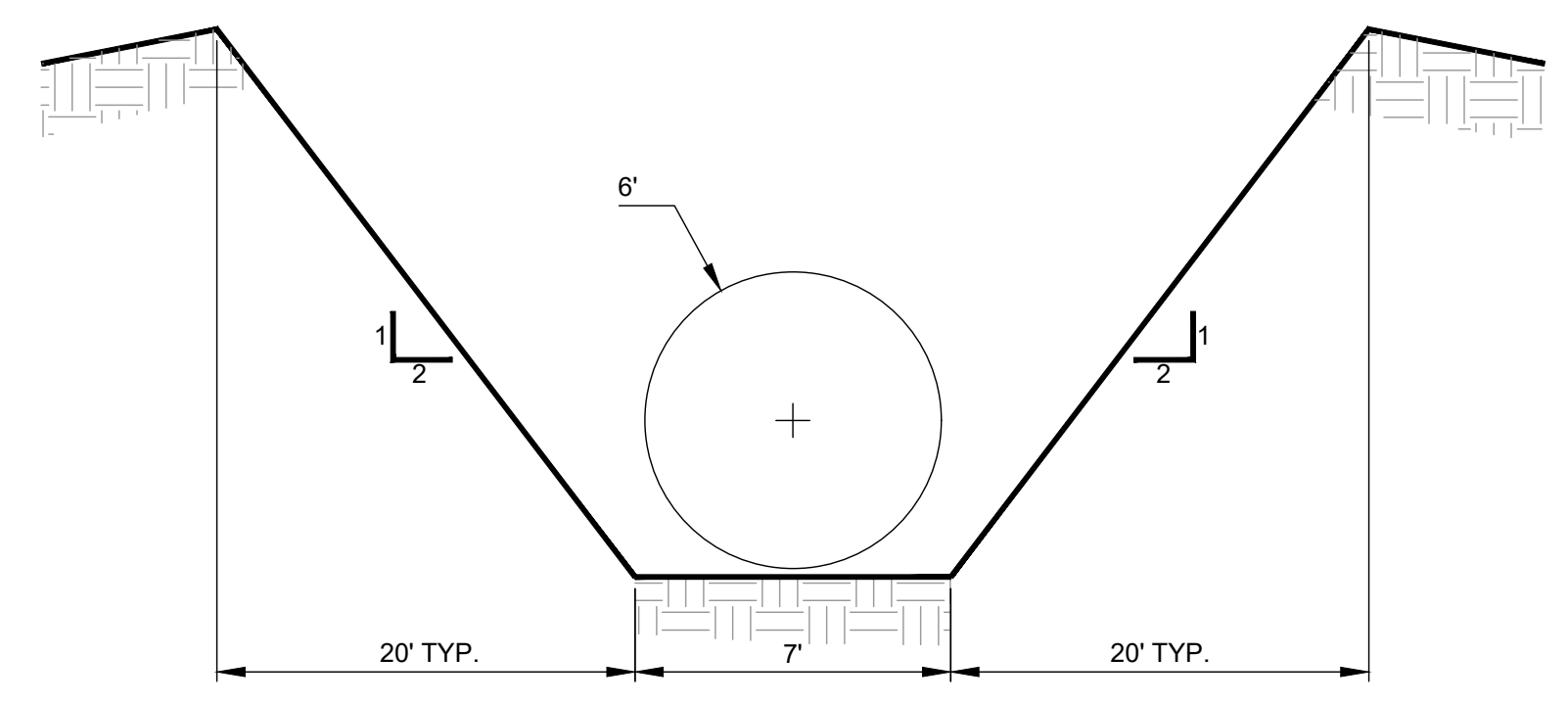
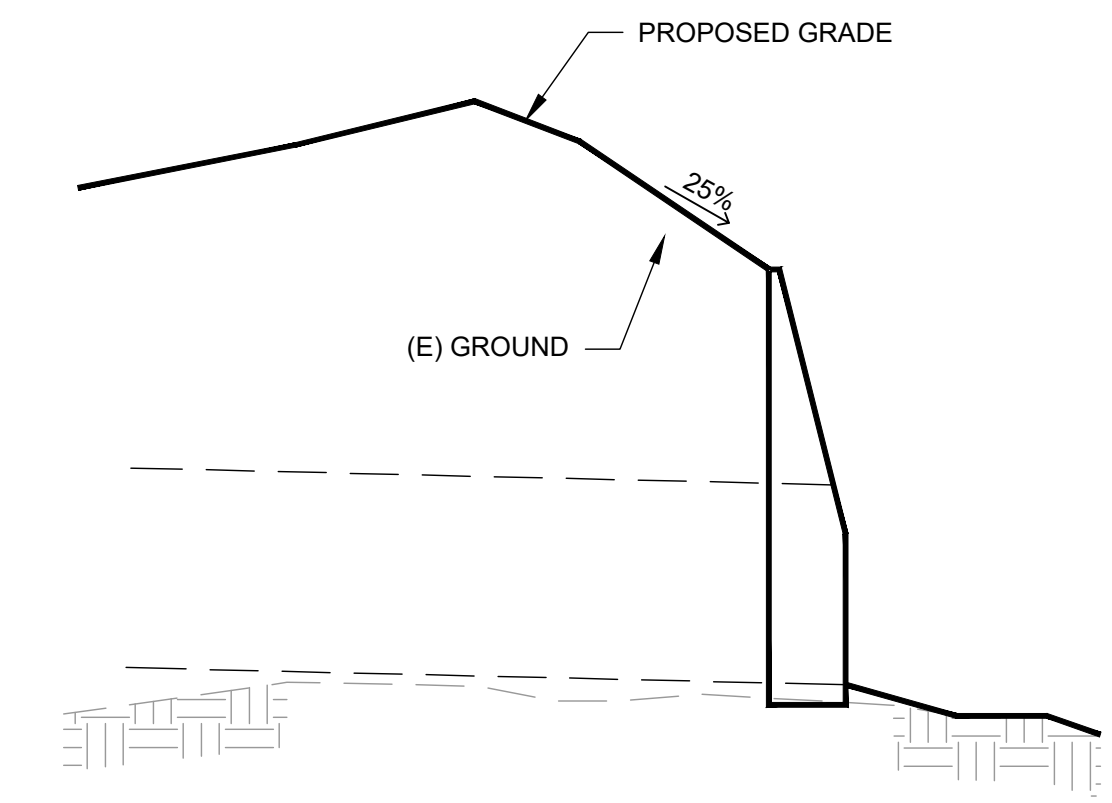
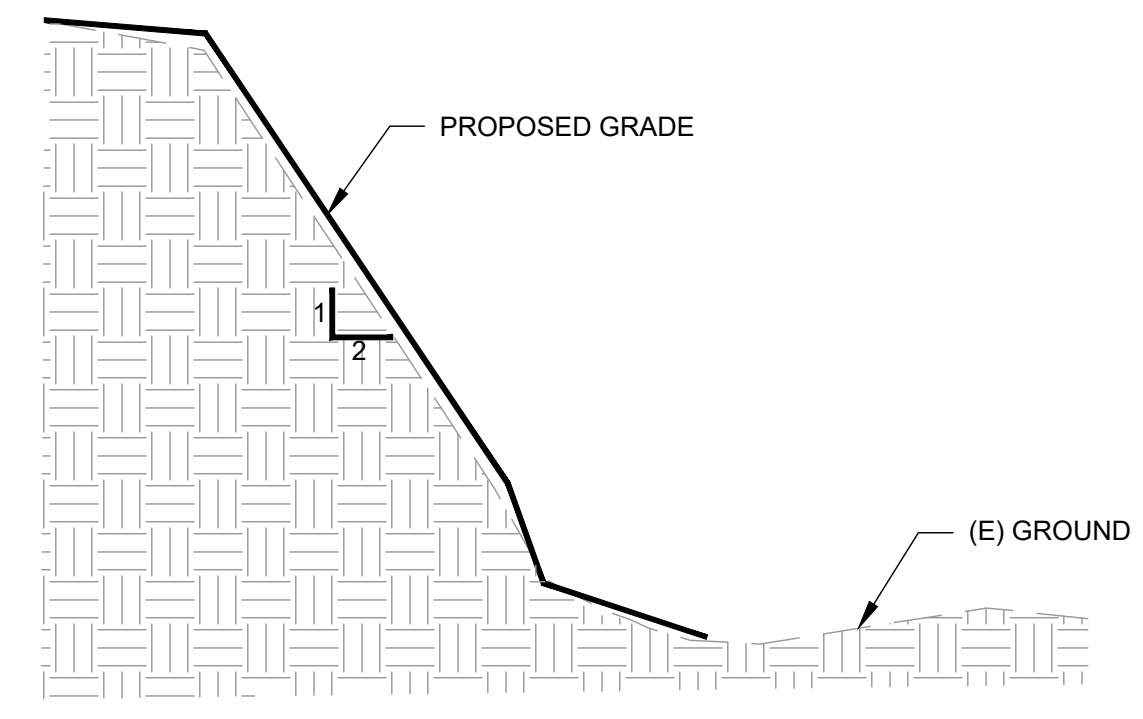
NOT FOR CONSTRUCTION

AGS:
M&H NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: NJH
DRAWN BY: NJH
CHECKED BY: EJS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
GRADING & DRAINAGE
PLAN INLET
HEADWALL

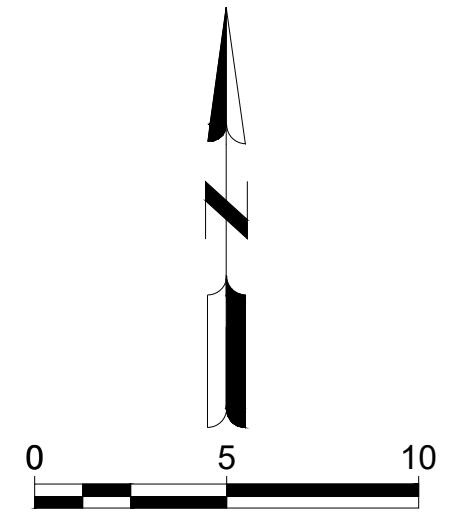
SHEET NO.

C-106

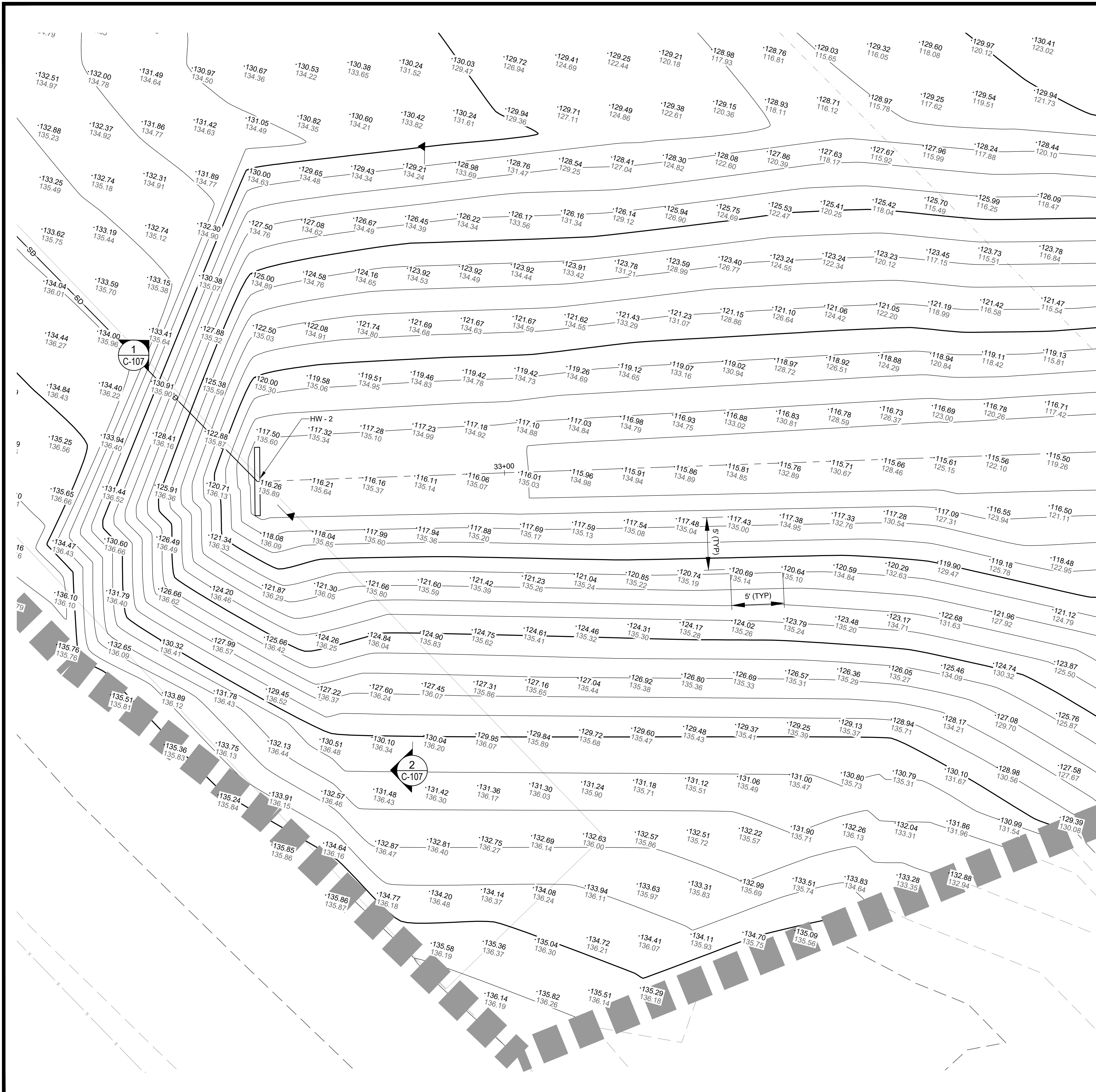


LEGEND:
 FINISHED GRADE
 EXISTING GRADE

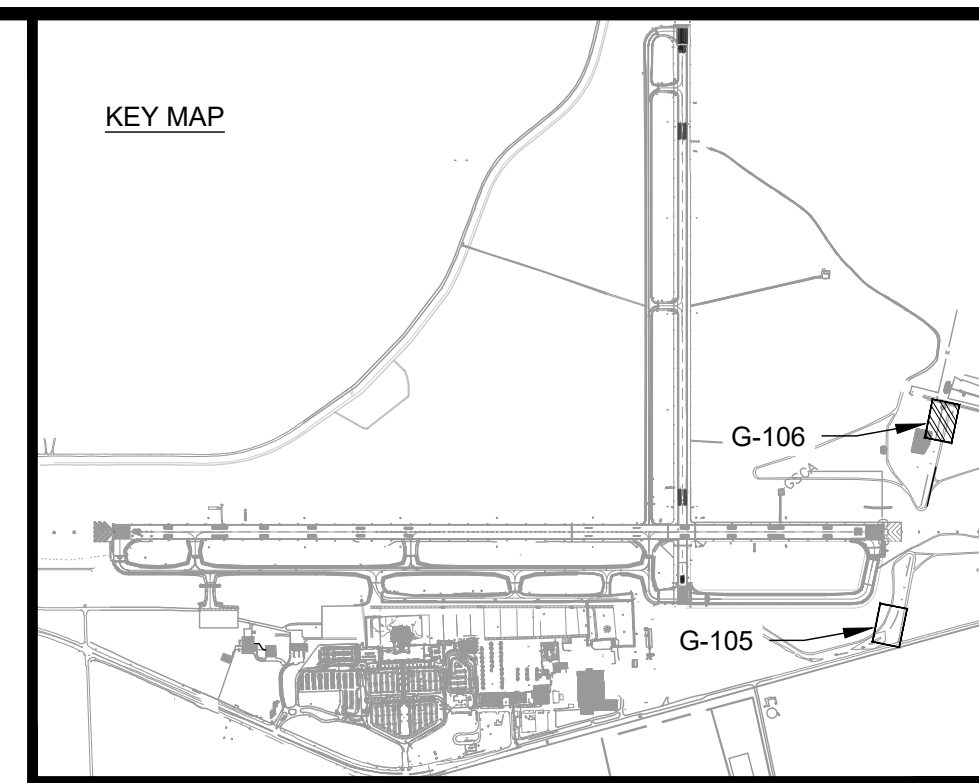
- NOTES:**
- SPOT ELEVATIONS ARE ON 25X25 GRID BASED ON THE BASELINE OR AS OTHERWISE SHOWN. SEE SURVEY CONTROL SHEET FOR ALIGNMENT INFORMATION.
 - SEE STORM DRAIN PLAN AND PROFILE SHEETS FOR STORM DRAIN DESIGN.
 - CONTOURS SHOWN REPRESENT ULTIMATE GRADING.



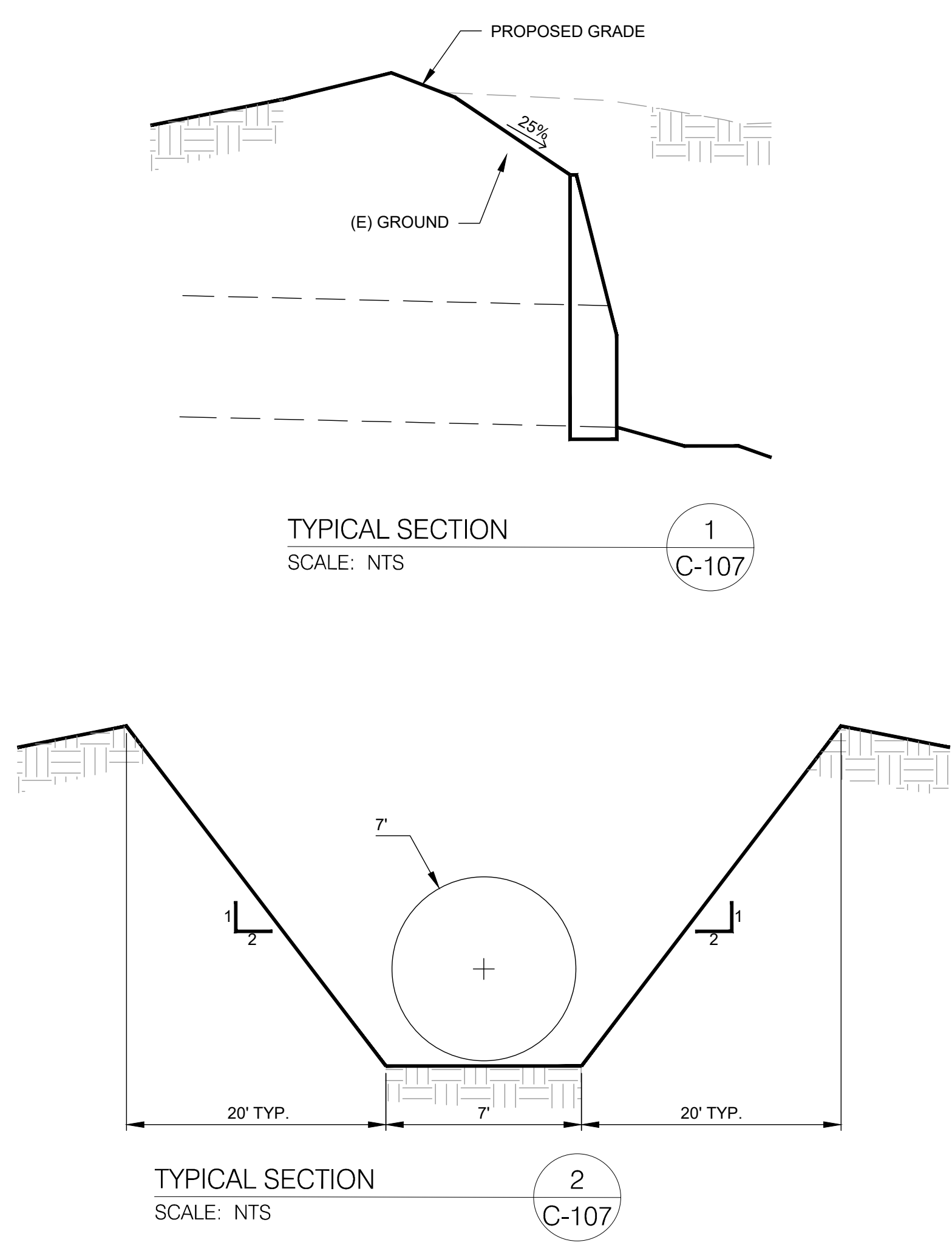
X:\01\197002\0463.01\TECH\DRAWINGS\C-101 GRADING PLAN.DWG
10/22/2024 9:15:59 AM



LEGEND:
FINISHED GRADE
EXISTING GRADE



- NOTES:
- SPOT ELEVATIONS ARE ON 25X25 GRID BASED ON THE BASELINE OR AS OTHERWISE SHOWN. SEE SURVEY CONTROL SHEET FOR ALIGNMENT INFORMATION.
 - SEE STORM DRAIN PLAN AND PROFILE SHEETS FOR STORM DRAIN DESIGN.
 - CONTOURS SHOWN REPRESENT ULTIMATE GRADING.



Mead & Hunt
Mead and Hunt, Inc.
5955 Core Road, Suite 515
North Charleston, SC 29406
phone: 843-486-8330
meadhunt.com

**AGS
AUGUSTA
REGIONAL AIRPORT**

© Copyright 2022 Mead & Hunt, Inc.
This document, or any portion thereof, shall not be duplicated, disclosed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt shall not be responsible for any unauthorized use of, or alteration to these documents.

**AUGUSTA REGIONAL AIRPORT
SOUTHEAST DRAINAGE DITCH
ENCLOSURE PH II
1501 AVIATION WAY
AUGUSTA GA, 30906**

ISSUED FOR BID

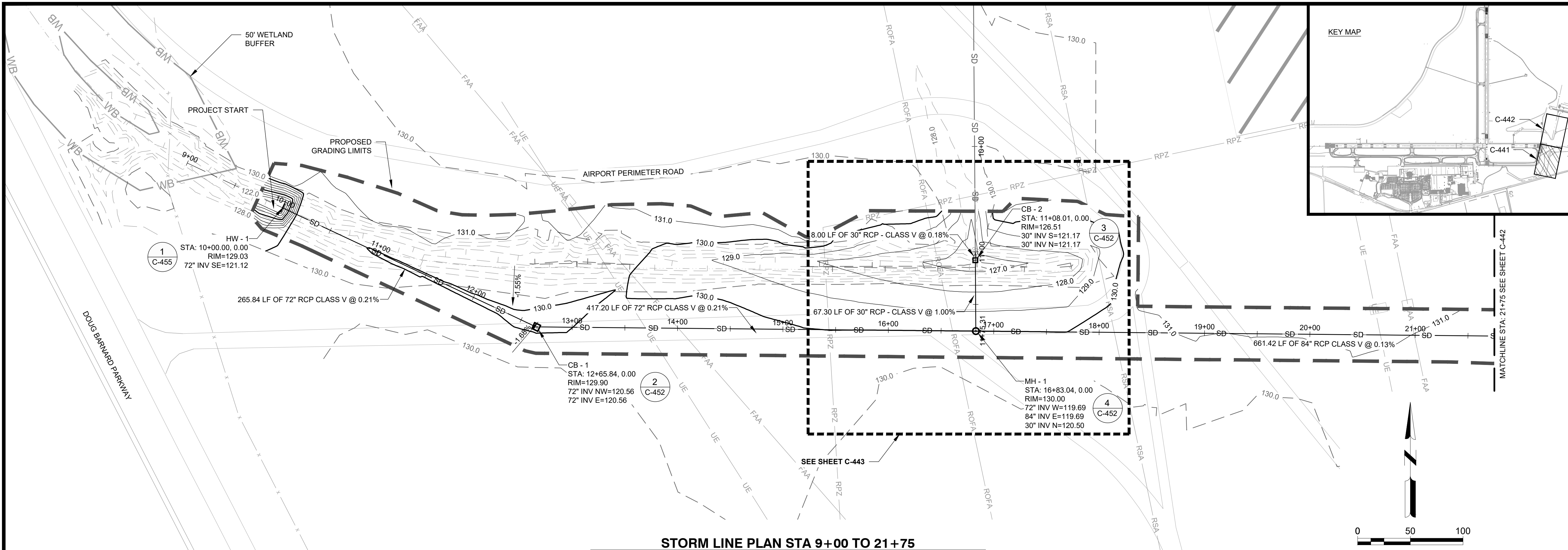
NOT FOR CONSTRUCTION

AGS:
M&H NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: NJH
DRAWN BY: NJH
CHECKED BY: EJS
DO NOT SCALE DRAWINGS

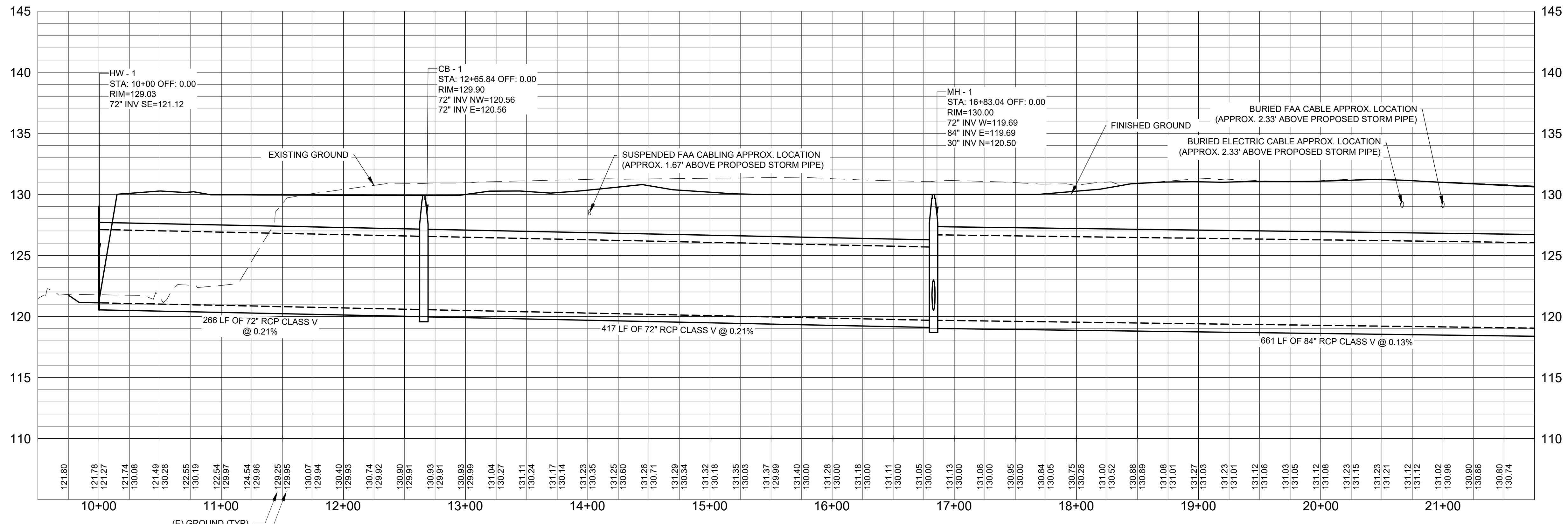
SHEET CONTENTS
GRADING & DRAINAGE
PLAN OUTLET
HEADWALL

SHEET NO.

C-107

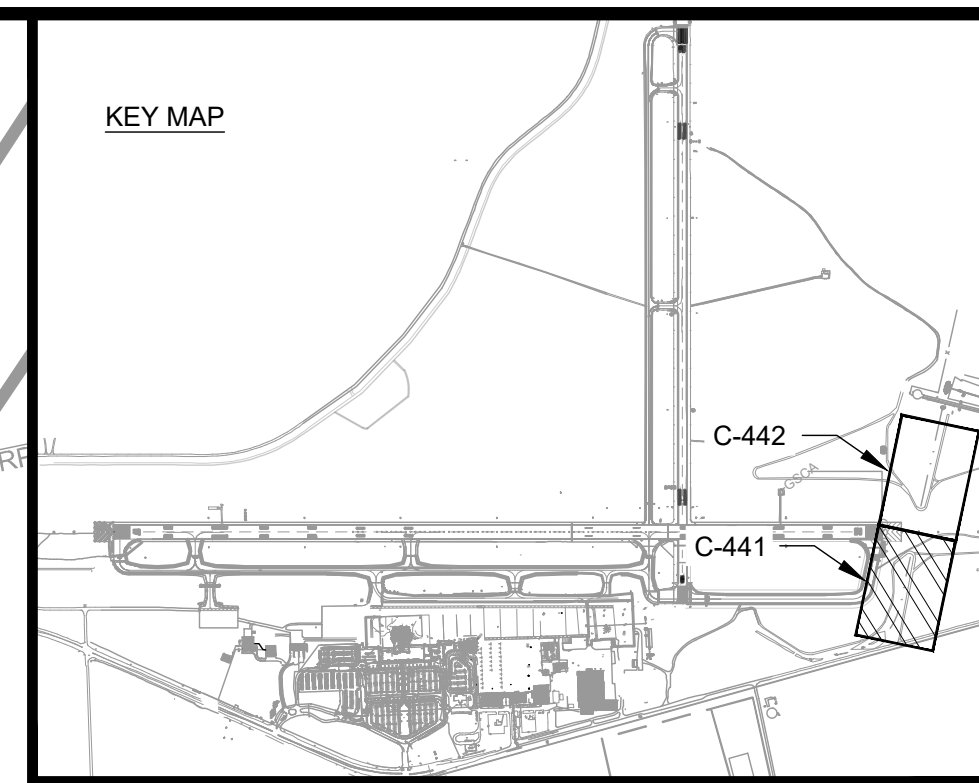


STORM LINE PLAN STA 9+00 TO 21+75



STORM LINE PROFILE STA 9+00 TO 21+75

NOTE: UTILITIES SHOWN ARE BASED UPON PREVIOUS AIRPORT DATA AND ADDITIONAL UTILITIES MAY EXIST. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO LOCATE AND PROTECT EXISTING UTILITIES



Mead & Hunt
 Mead and Hunt, Inc.
 5955 Core Road, Suite 515
 North Charleston, SC 29406
 phone: 843-486-8330
 meadhunt.com

AGS AUGUSTA REGIONAL AIRPORT

© Copyright 2022 Mead & Hunt, Inc. This document, or any portion thereof, shall not be duplicated, disclosed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt shall not be responsible for any unauthorized use of, or alteration to these documents.

**AUGUSTA REGIONAL AIRPORT
 SOUTHEAST DRAINAGE DITCH
 ENCLOSURE PH II
 1501 AVIATION WAY
 AUGUSTA GA, 30906**

ISSUED FOR BID

NOT FOR CONSTRUCTION

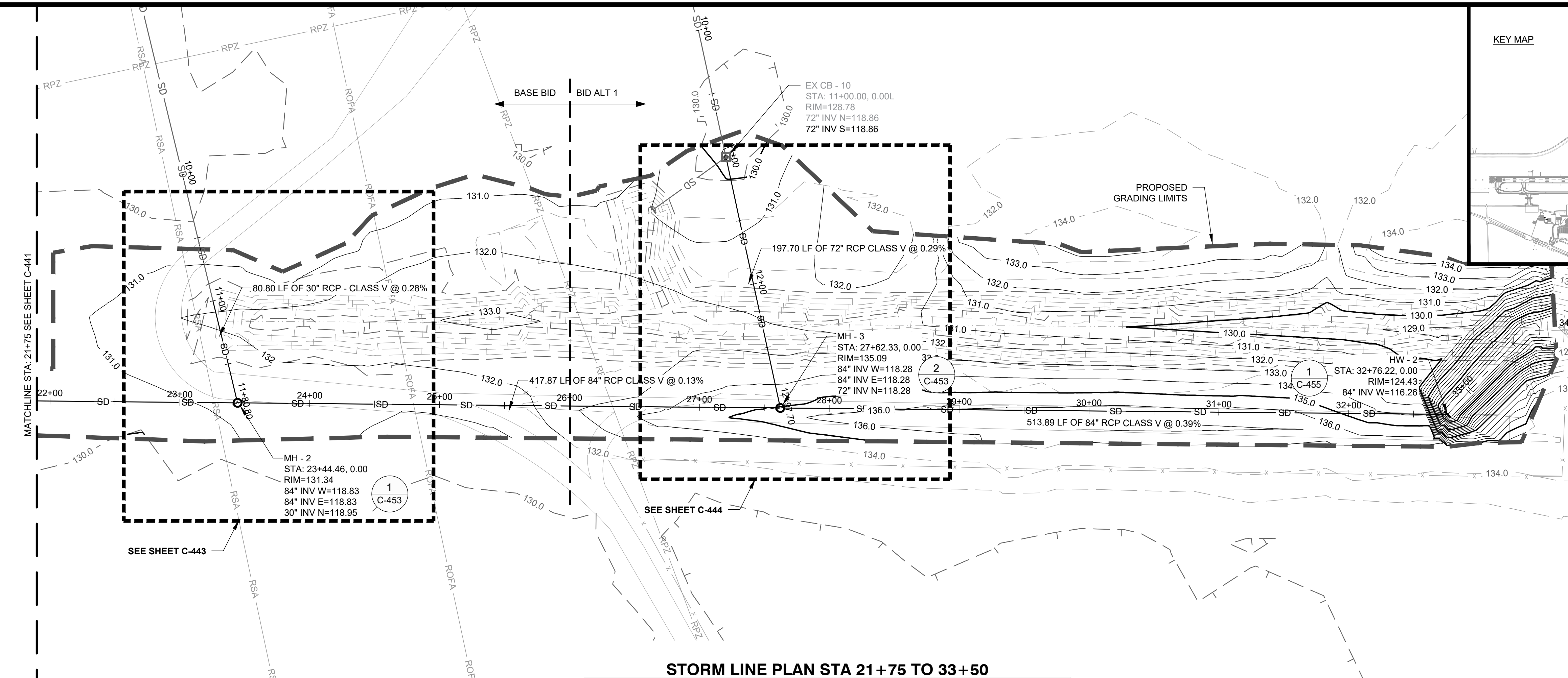
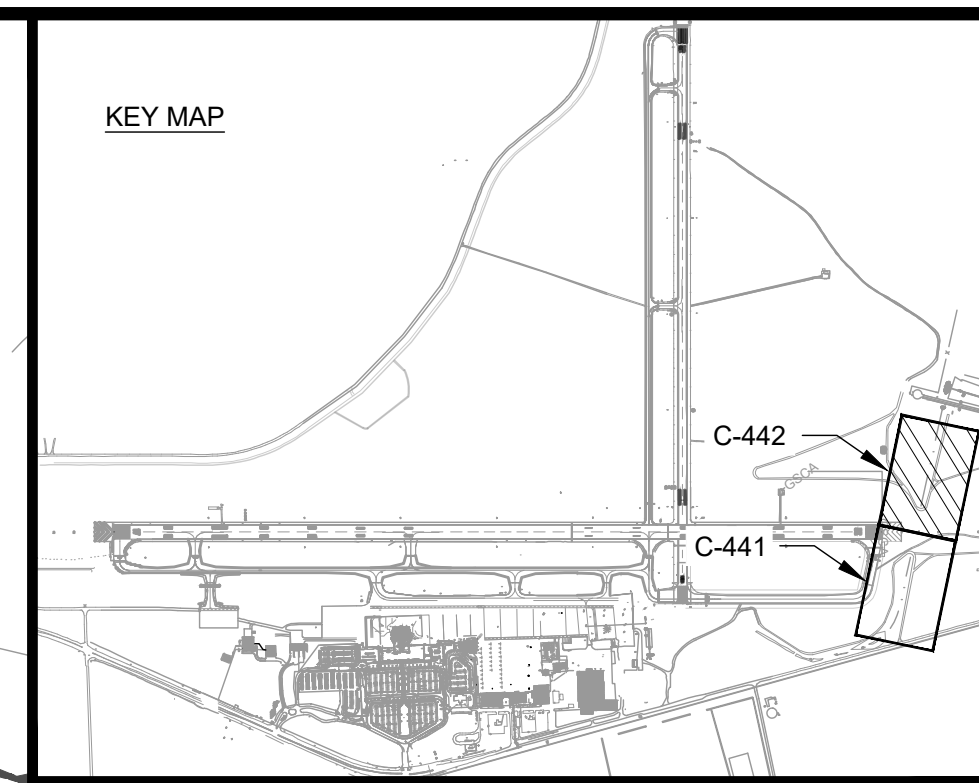
AGS:
 M&H NO.: 0119700-210463.01
 DATE: OCTOBER 22, 2024
 DESIGNED BY: NJH
 DRAWN BY: NJH
 CHECKED BY: EJS
 DO NOT SCALE DRAWINGS

SHEET CONTENTS
 STORM PLAN &
 PROFILE STA 09+00
 TO 21+75

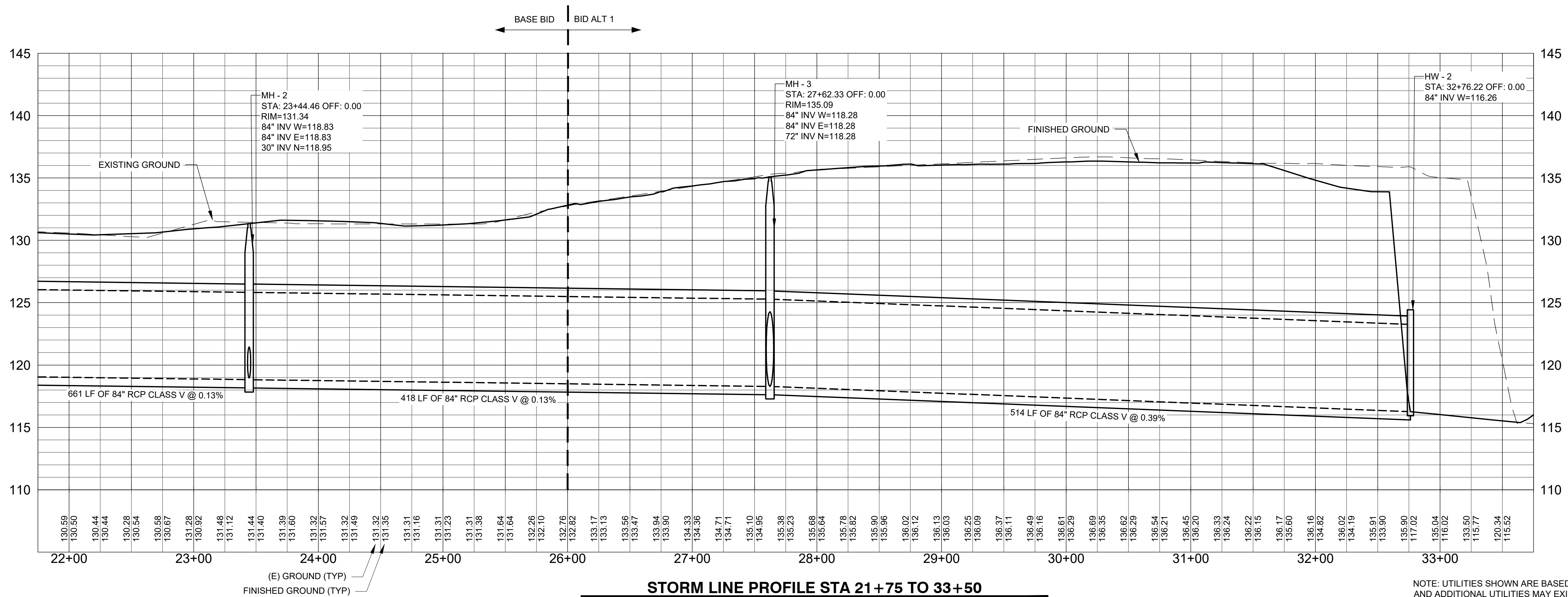
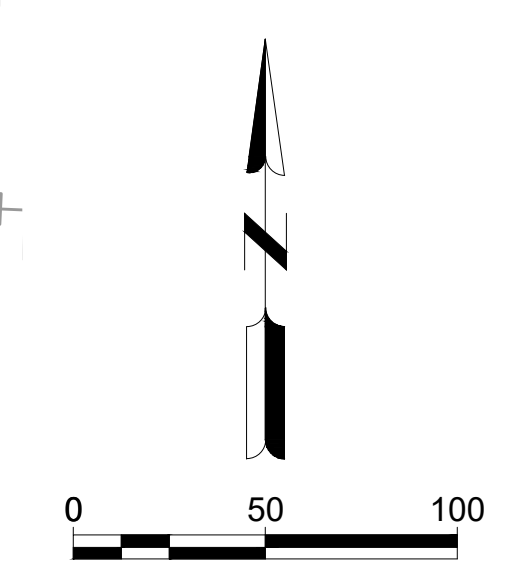
SHEET NO.

C-441

X:\0119700\210463\01TECH\DRAWINGS\C-401 PLAN & PROFILE.DWG
 10/22/2024 9:16:18 AM



STORM LINE PLAN STA 21+75 TO 33+50



STORM LINE PROFILE STA 21+75 TO 33+50

NOTE: UTILITIES SHOWN ARE BASED UPON PREVIOUS AIRPORT DATA AND ADDITIONAL UTILITIES MAY EXIST. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO LOCATE AND PROTECT EXISTING UTILITIES

AUGUSTA REGIONAL AIRPORT SOUTHEAST DRAINAGE DITCH ENCLOSURE PH II 1501 AVIATION WAY AUGUSTA GA, 30906

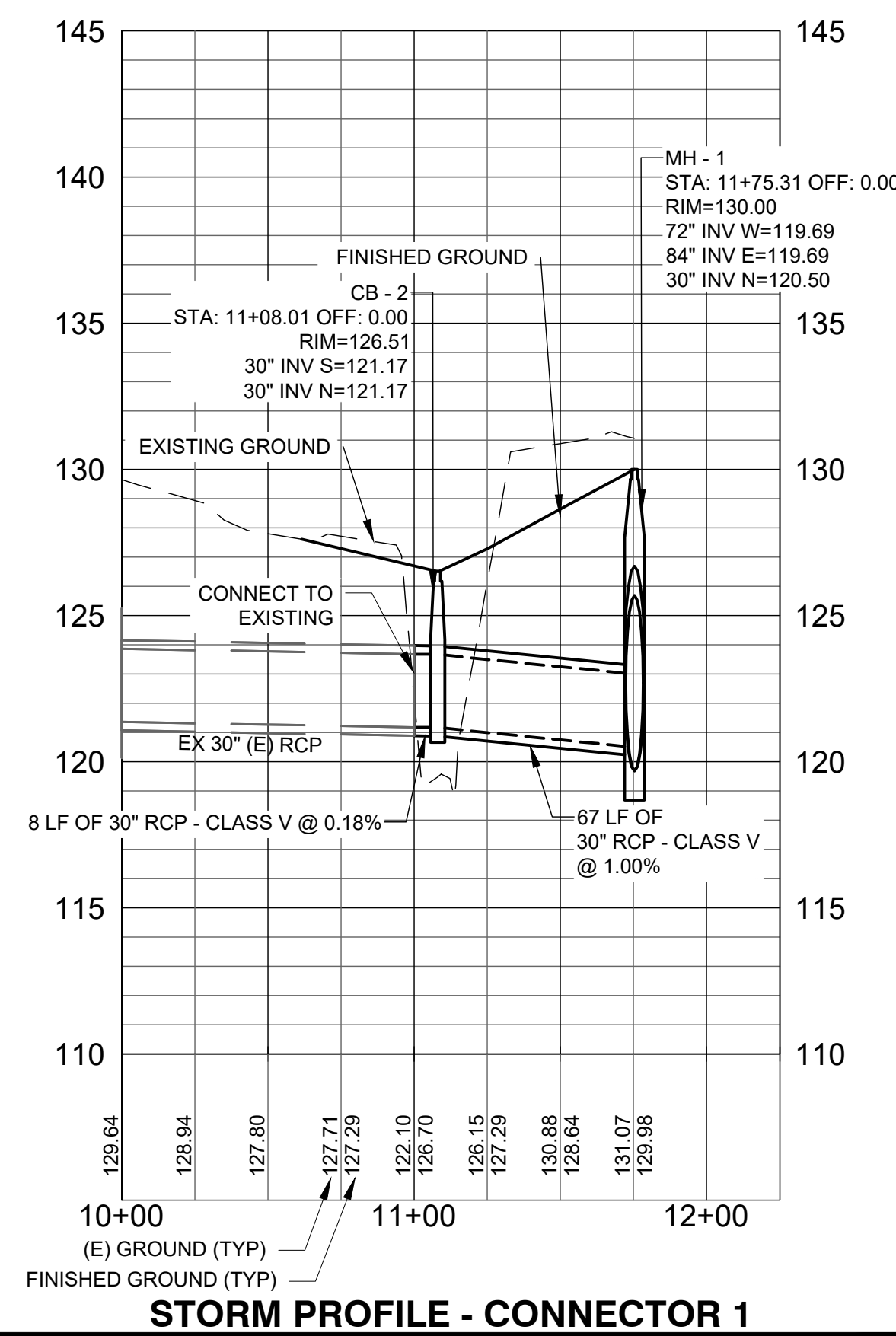
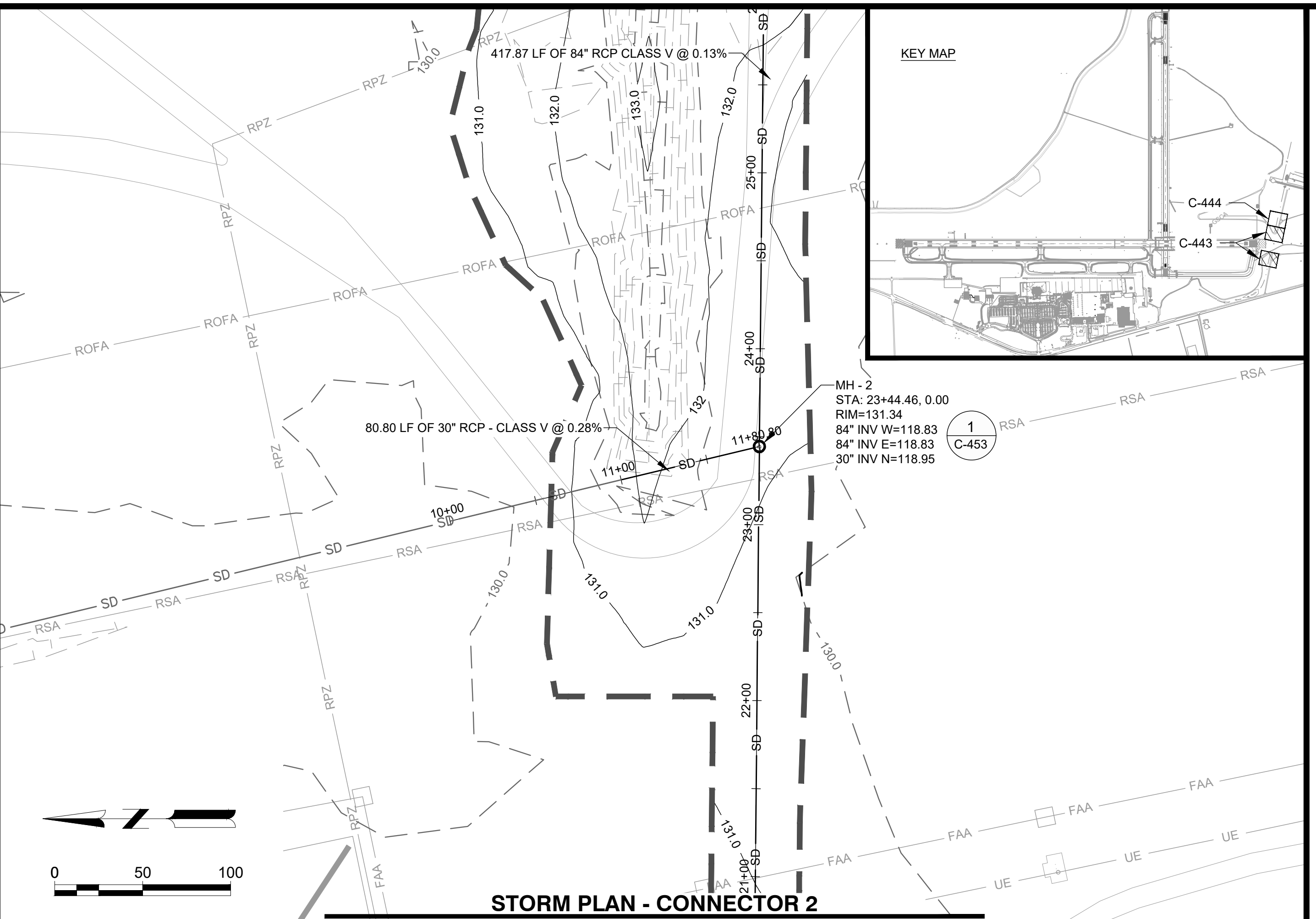
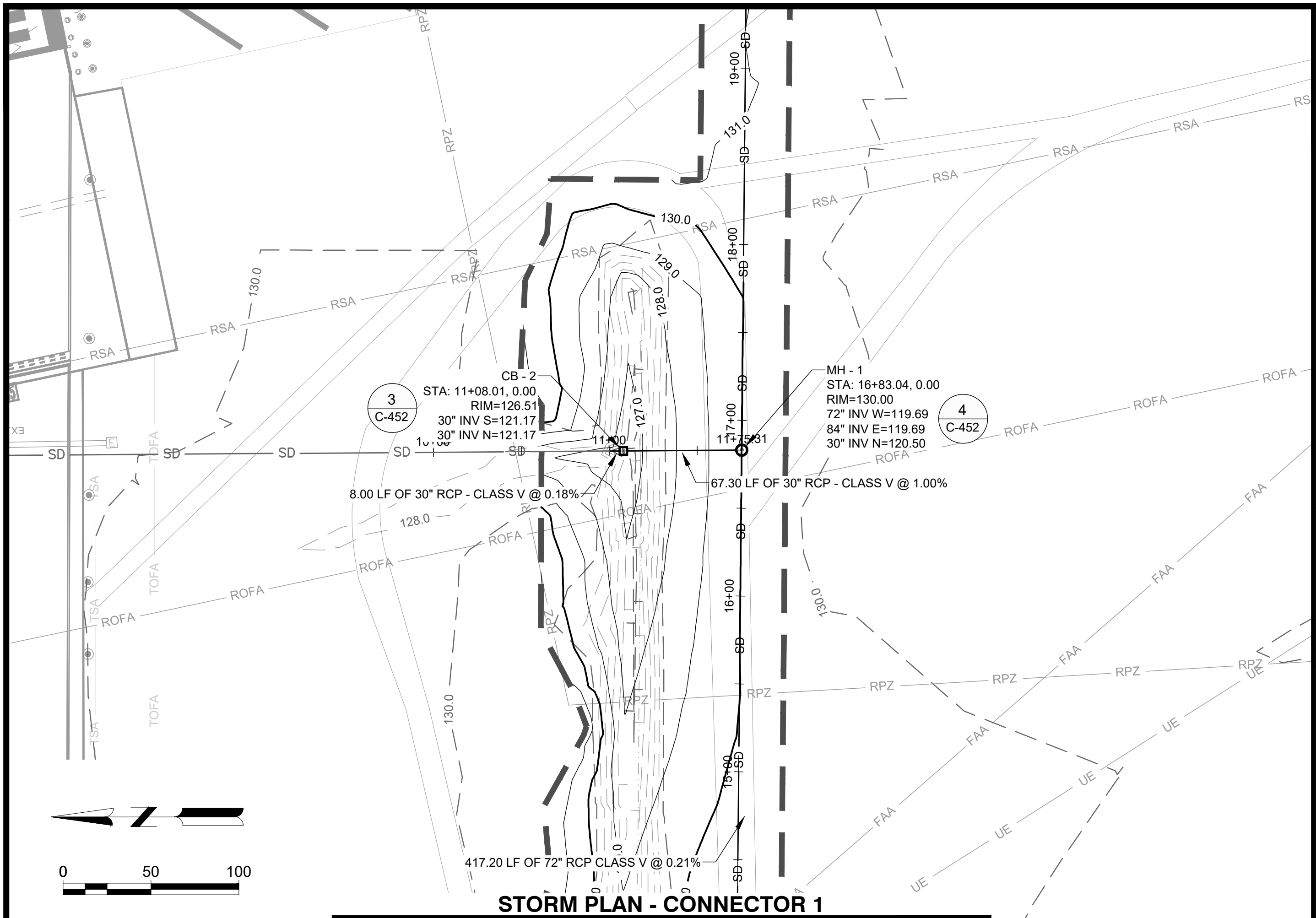
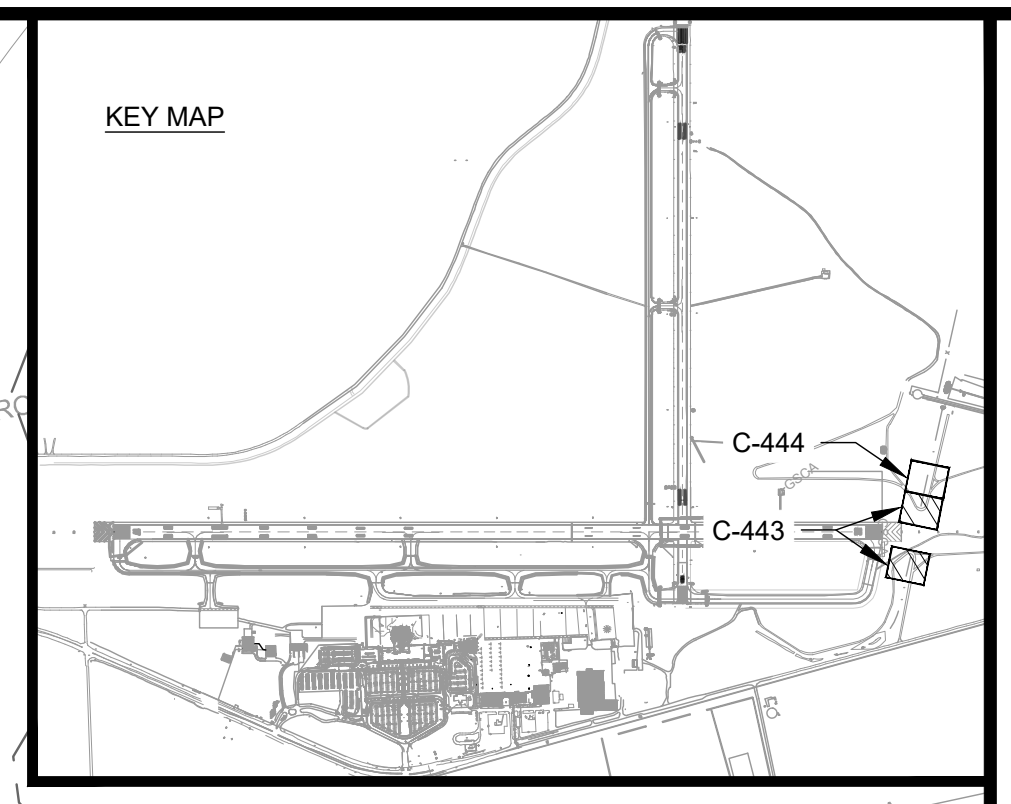
ISSUED
ISSUED FOR BID

NOT FOR CONSTRUCTION

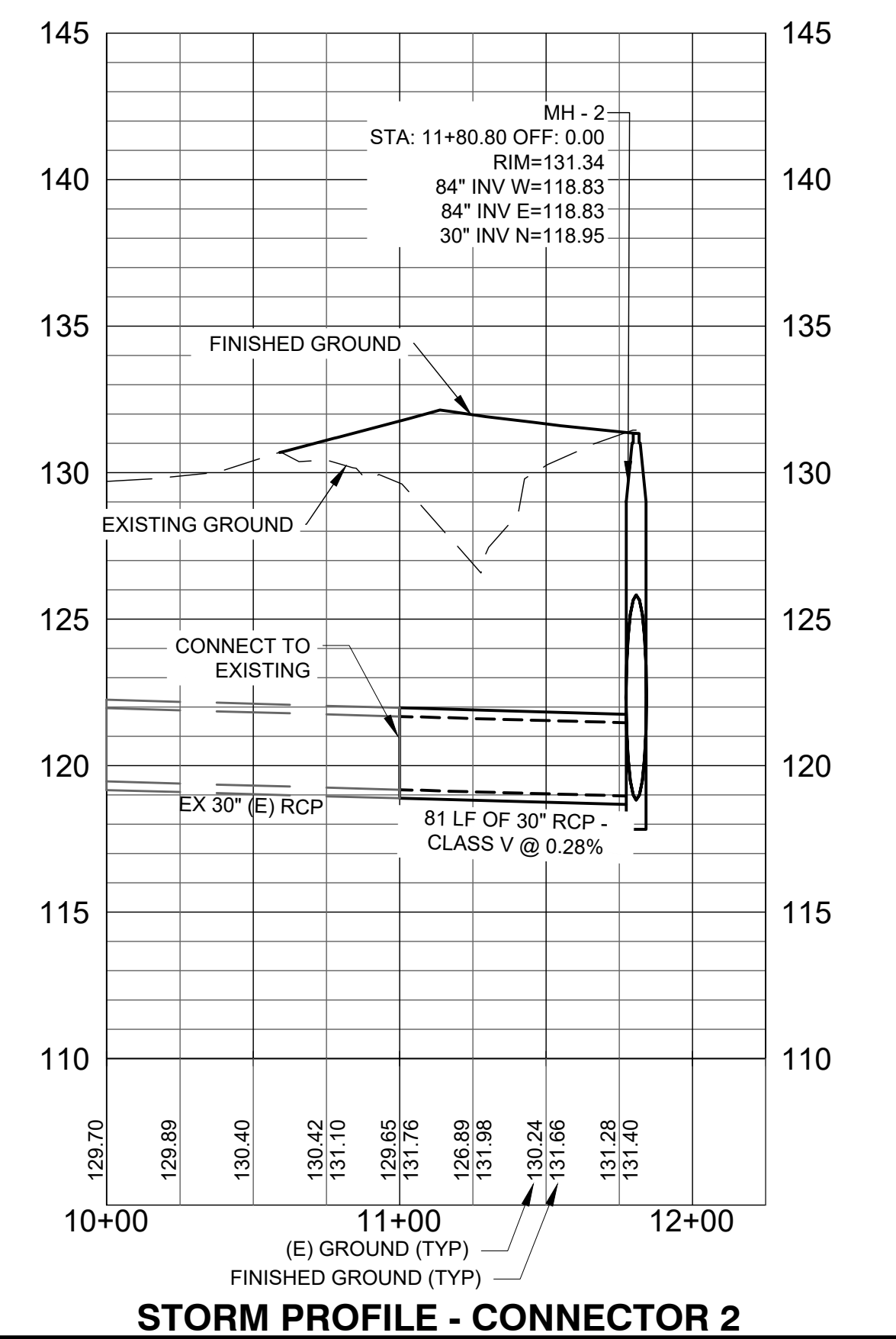
AGS:
M&H NO: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: NJH
DRAWN BY: NJH
CHECKED BY: EJS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
STORM PLAN &
PROFILE STA 21+75
TO 33+50

SHEET NO.



NOTE: UTILITIES SHOWN ARE BASED UPON PREVIOUS AIRPORT DATA AND ADDITIONAL UTILITIES MAY EXIST. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO LOCATE AND PROTECT EXISTING UTILITIES



NOTE: UTILITIES SHOWN ARE BASED UPON PREVIOUS AIRPORT DATA AND ADDITIONAL UTILITIES MAY EXIST. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO LOCATE AND PROTECT EXISTING UTILITIES

AUGUSTA REGIONAL AIRPORT SOUTHEAST DRAINAGE DITCH ENCLOSURE PH II 1501 AVIATION WAY AUGUSTA GA, 30906

ISSUED FOR BID

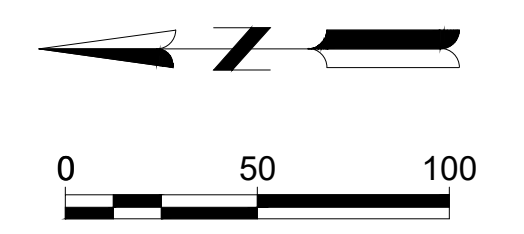
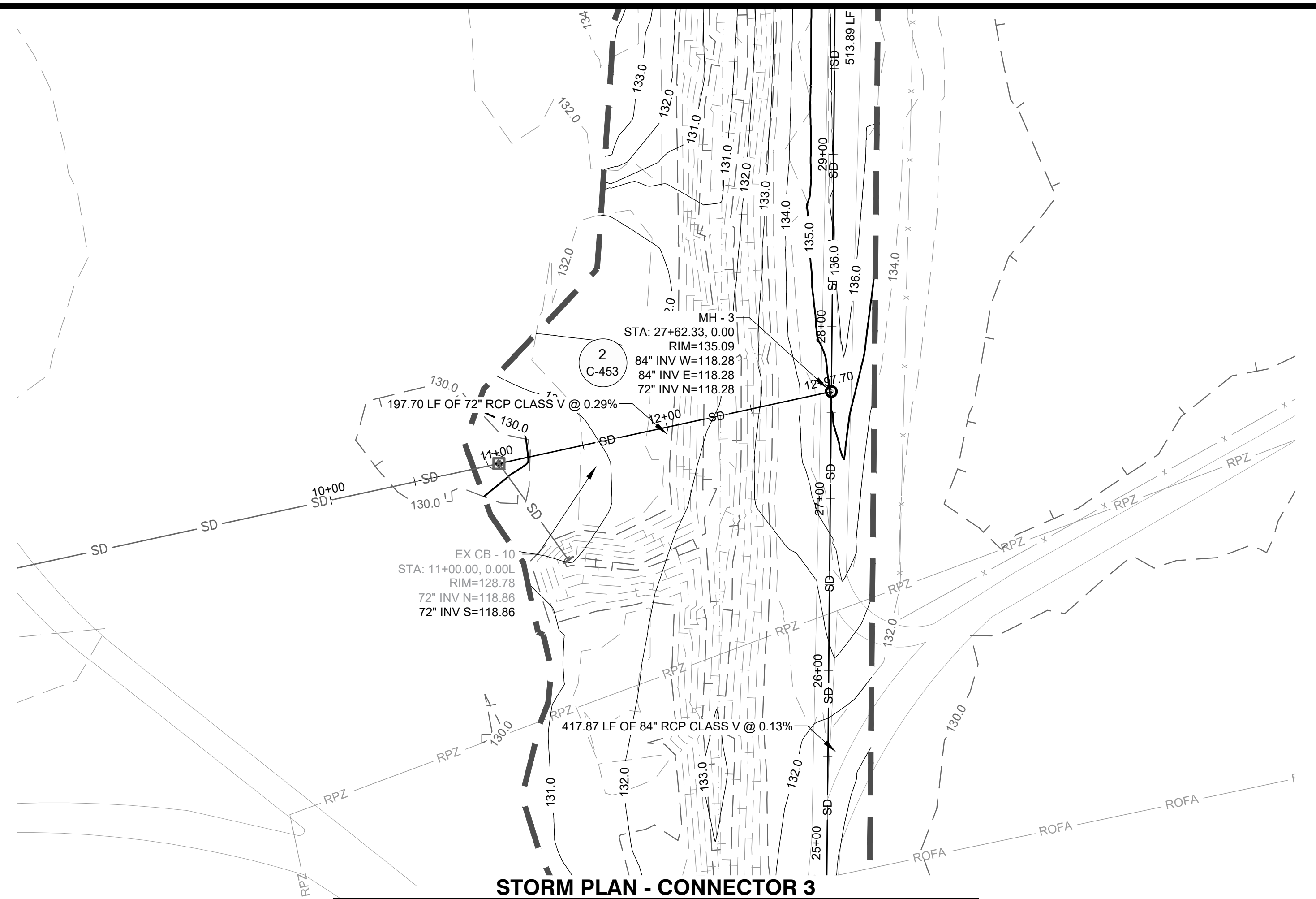
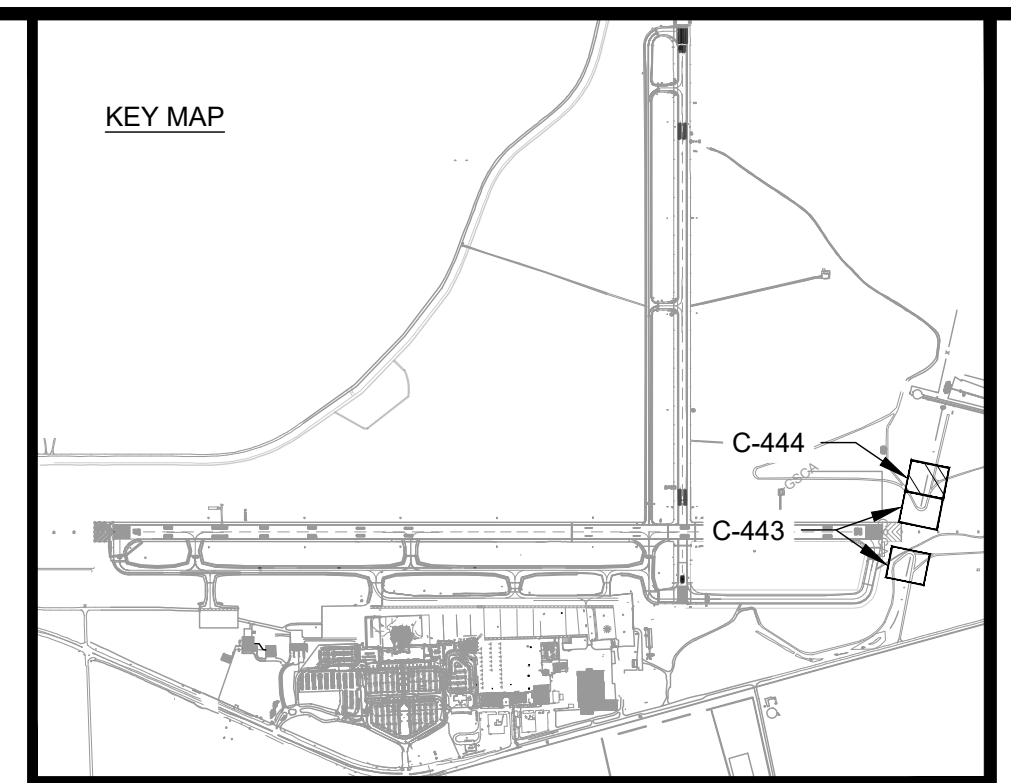
NOT FOR CONSTRUCTION

AGS:
M&H NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: NJH
DRAWN BY: NJH
CHECKED BY: EJS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
STORM PLAN &
PROFILE -
CONNECTIONS 1 & 2

SHEET NO.

C-443



AUGUSTA REGIONAL AIRPORT SOUTHEAST DRAINAGE DITCH ENCLOSURE PH II 1501 AVIATION WAY AUGUSTA GA, 30906

ISSUED
ISSUED FOR BID

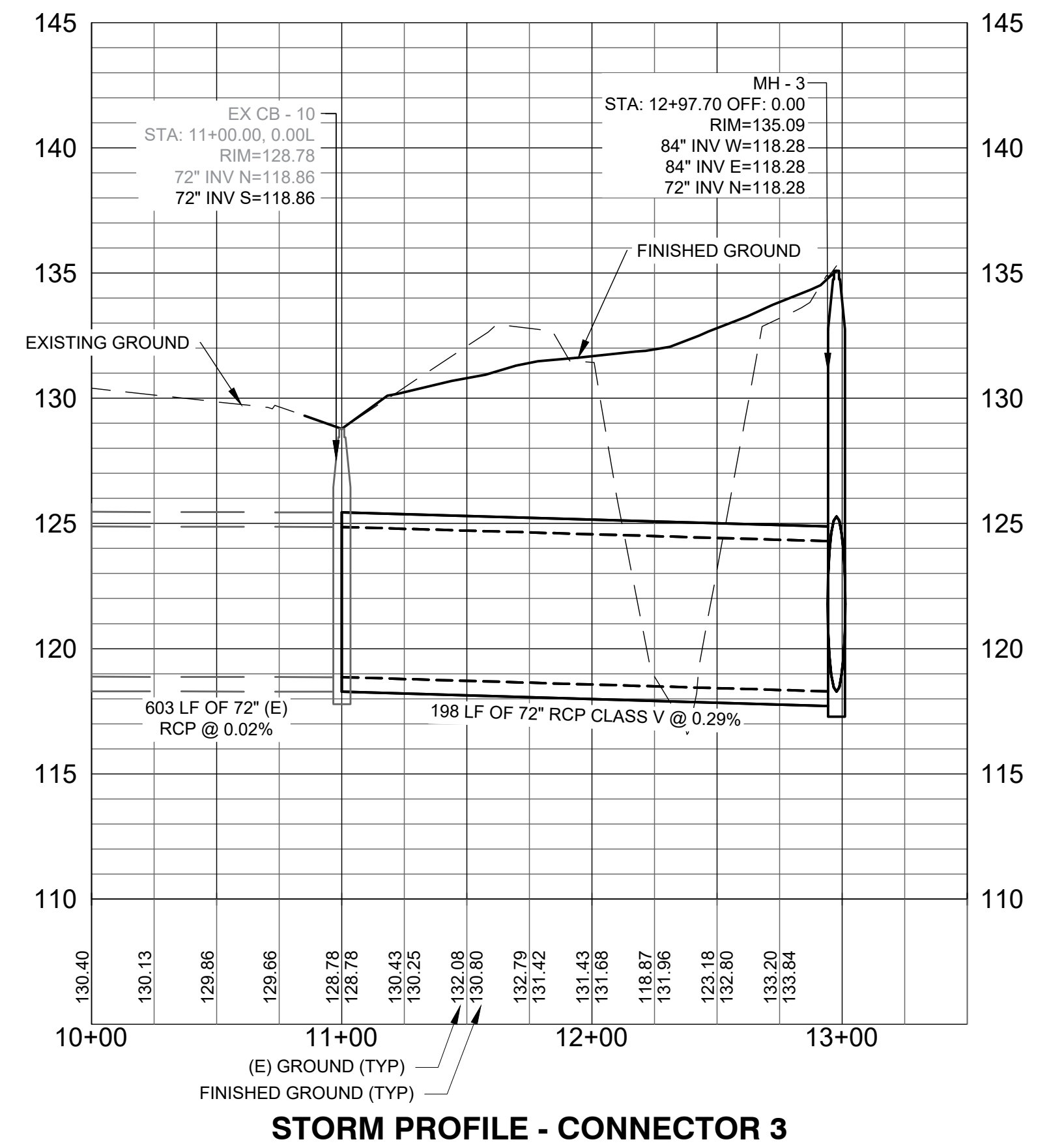
NOT FOR CONSTRUCTION

AIG:
M&H NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: NJH
DRAWN BY: NJH
CHECKED BY: EJS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
STORM PLAN &
PROFILE -
CONNECTION 3

SHEET NO.

C-444



NOTE: UTILITIES SHOWN ARE BASED UPON PREVIOUS AIRPORT DATA AND ADDITIONAL UTILITIES MAY EXIST. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO LOCATE AND PROTECT EXISTING UTILITIES

AUGUSTA REGIONAL AIRPORT SOUTHEAST DRAINAGE DITCH ENCLOSURE PH II 1501 AVIATION WAY AUGUSTA GA, 30906

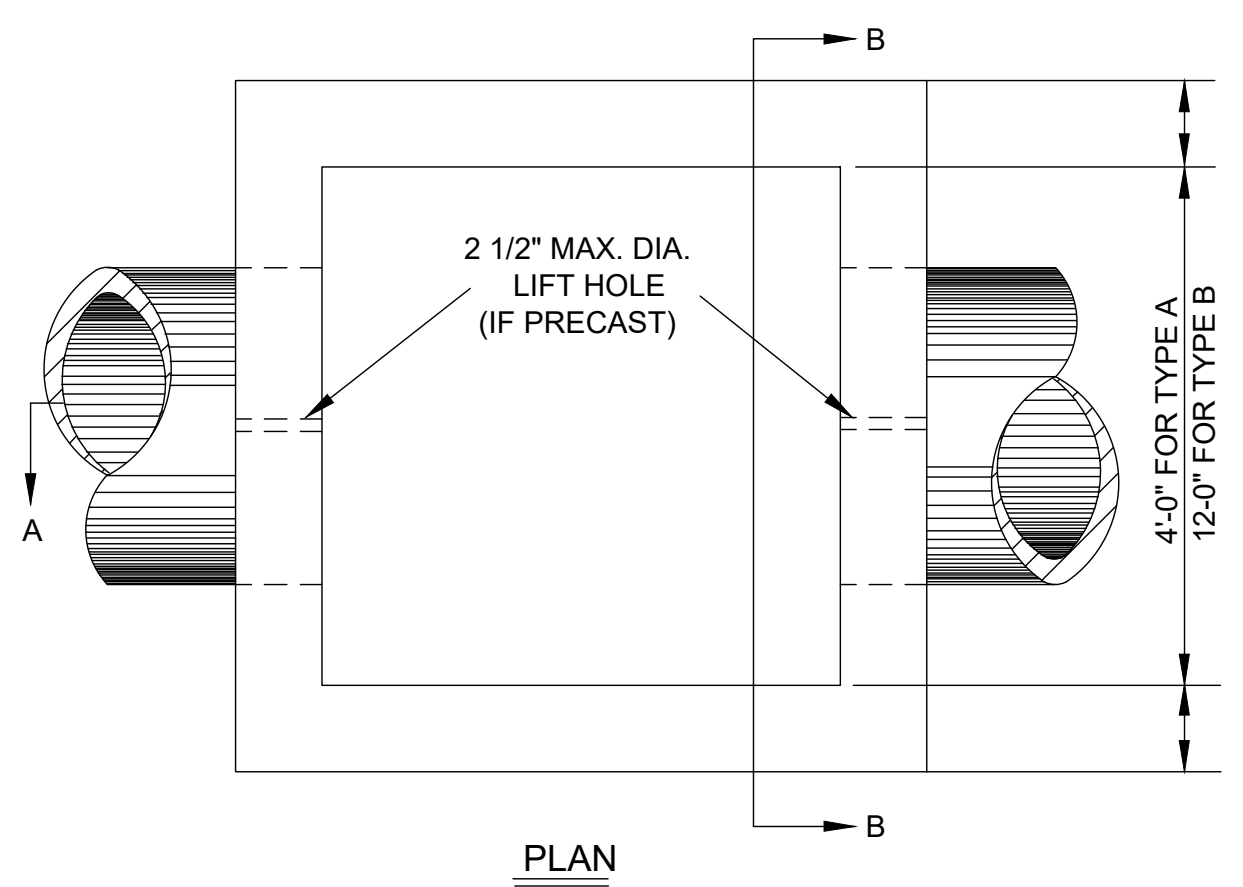
ISSUED
ISSUED FOR BID

NOT FOR CONSTRUCTION

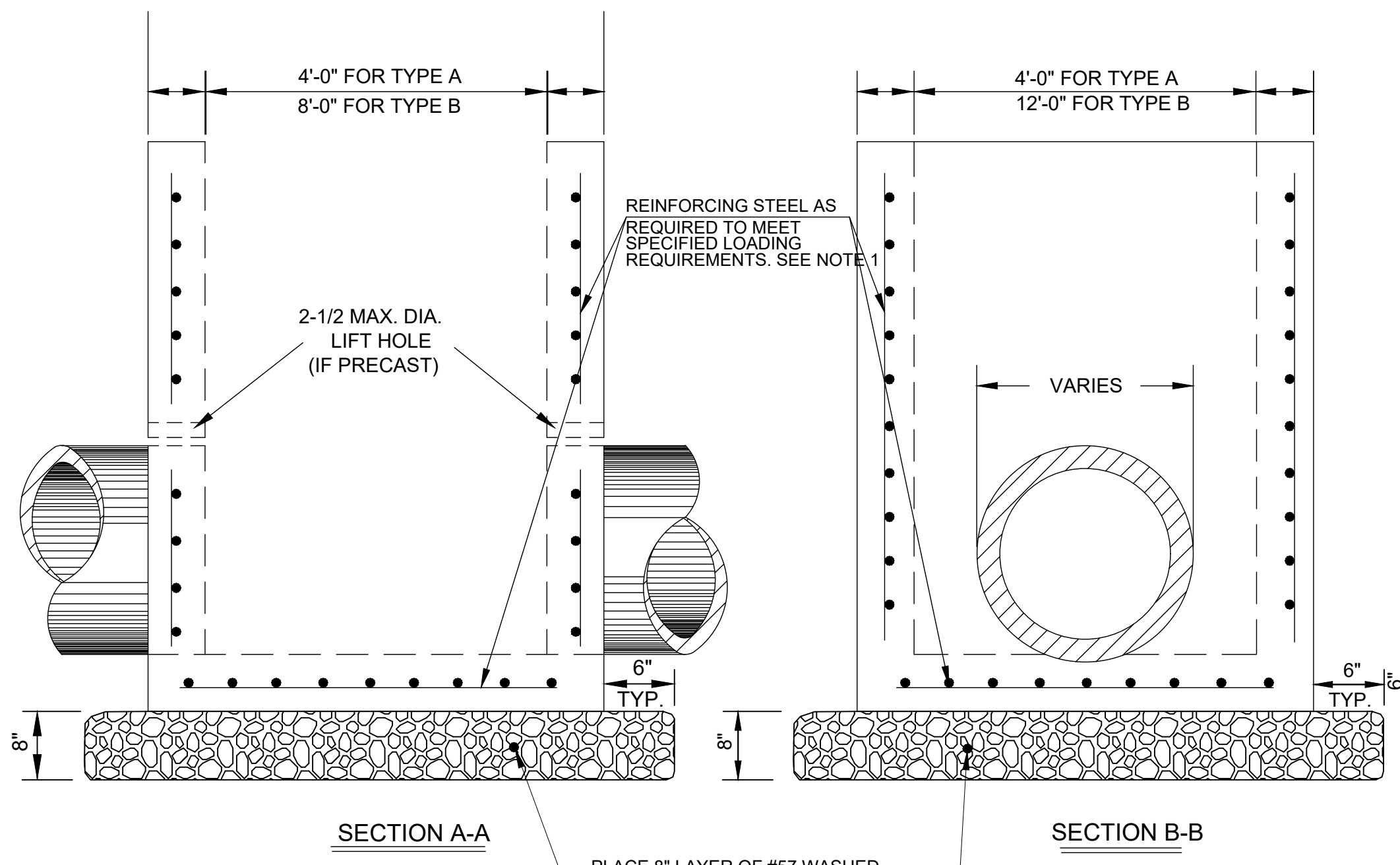
AGS:
M&H NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: NJH
DRAWN BY: NJH
CHECKED BY: EJS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
STORM DETAILS

SHEET NO.



- NOTES:
- CONTRACTOR SHALL SUBMIT, FOR EACH STRUCTURE, SHOP DRAWINGS, DETAILS, AND CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF GEORGIA. THE STRUCTURE SHALL BE DESIGNATED AS AIRCRAFT RATED AND DESIGNED TO SUPPORT A MINIMUM LOAD OF 100,000 LBS.
 - METAL STEPS SHALL BE USED IF STRUCTURE DEPTH EXCEEDS 4'-6". SEE DETAIL, THIS DRAWING.

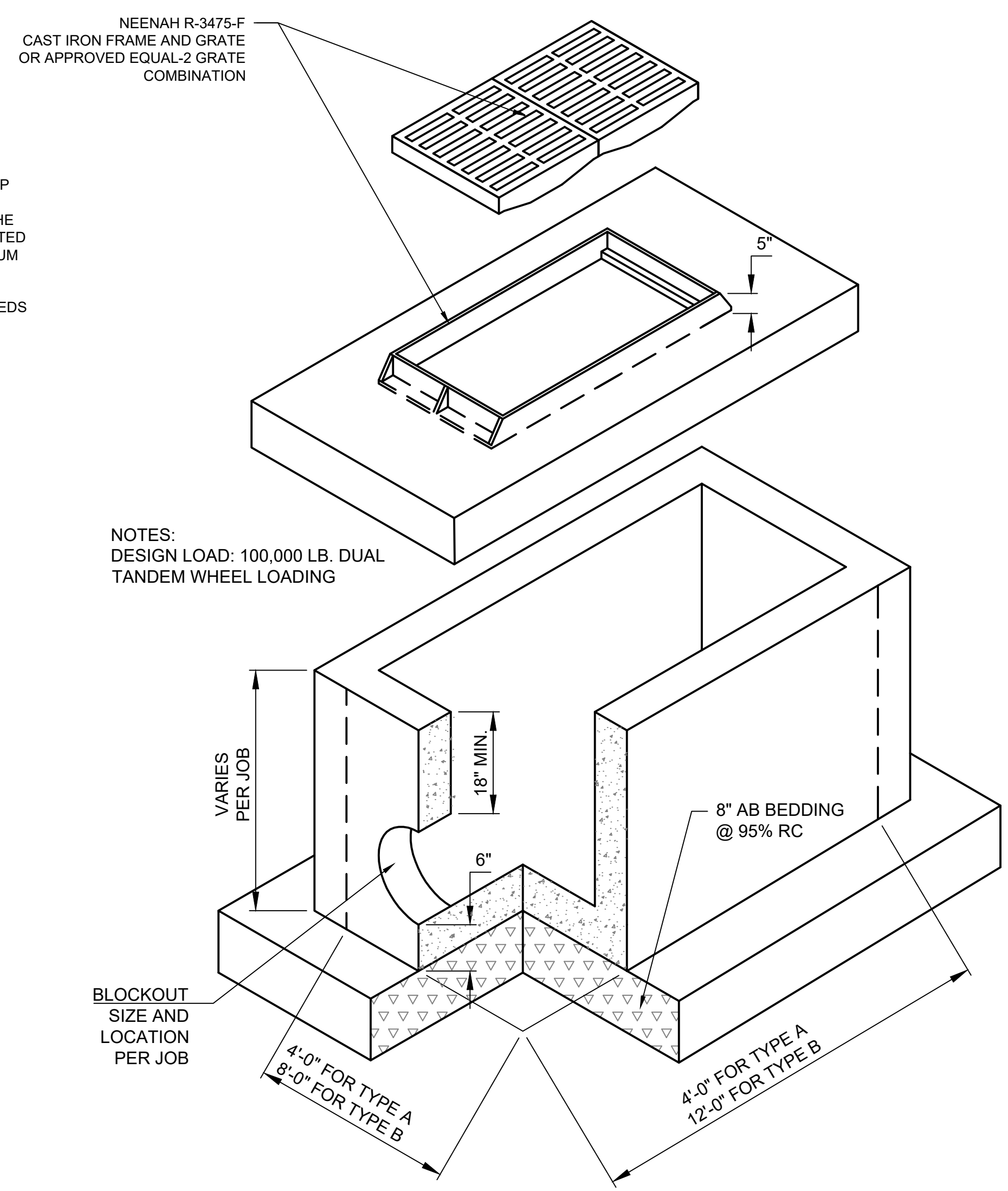


PLACE 8" LAYER OF #57 WASHED STONE AS BEDDING FOR STRUCTURE. COST SHALL BE INCIDENTAL TO COST OF STRUCTURE.
A MINIMUM OF 4'-0" OF PAVEMENT TO BE PLACED AROUND STRUCTURE AS SHOWN. PAYMENT FOR THIS PAVEMENT WILL BE INCLUDED IN BID PRICE FOR STRUCTURE.

1 PRECAST CATCH BASIN
NO SCALE

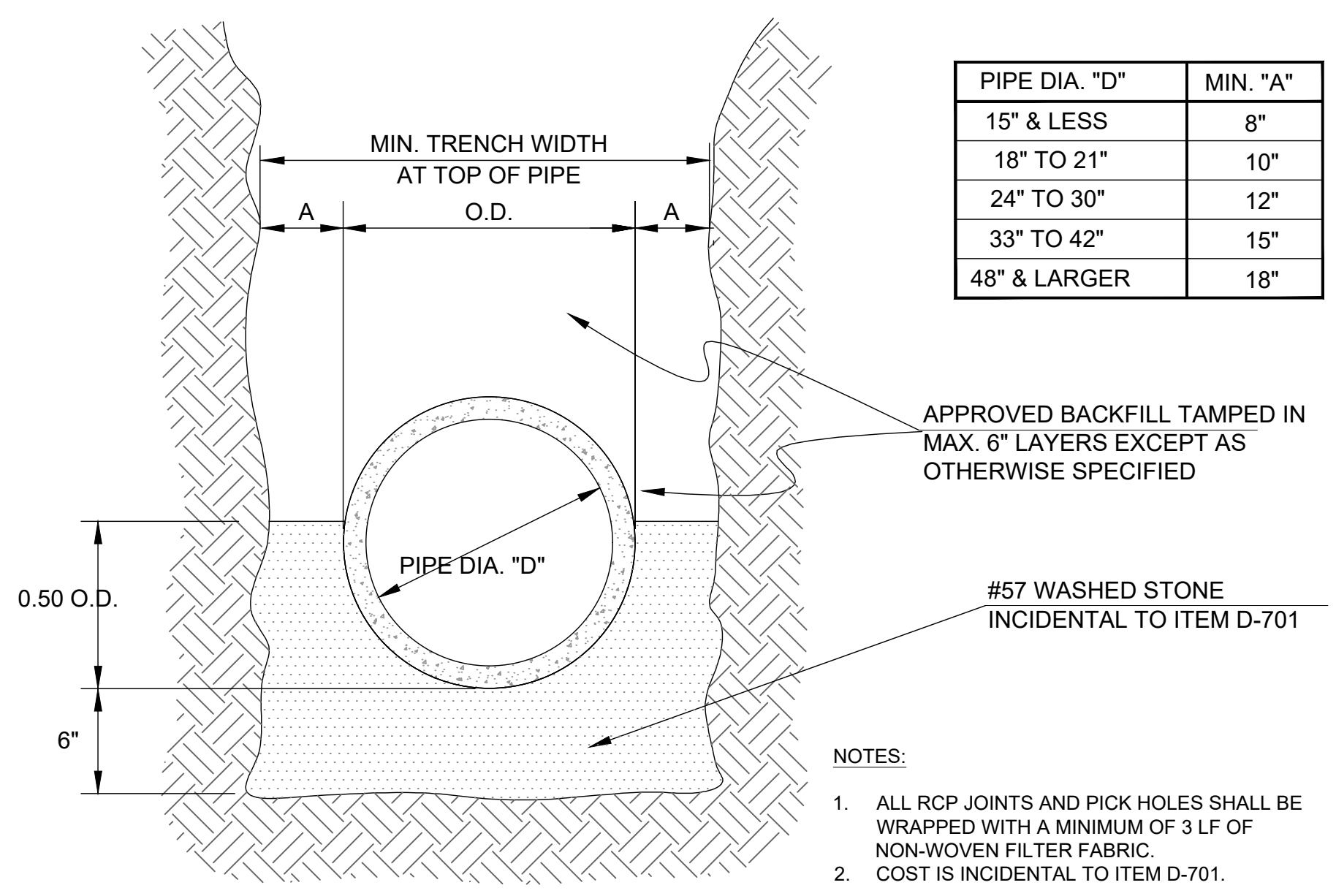
GENERAL NOTES:

- ALL PRECAST STRUCTURE SHOP DRAWINGS SHALL BE STAMPED BY A REGISTERED GEORGIA STRUCTURAL ENGINEER AND SUBMITTED TO THE PROJECT ENGINEER FOR APPROVAL. PRECAST MANHOLE RINGS AND CATCH BASIN STRUCTURES SHALL CONFORM TO ASTM C-478 AND BE DESIGNED TO SUPPORT 30,000 POUND WHEEL LOADS AT 250 POUNDS PER SQUARE INCH TIRE PRESSURE. ALLOWABLE SOIL PRESSURE IS 2,000 POUNDS PER SQUARE FEET.
- CATCH BASIN DIMENSIONS ARE TYPICAL. ACTUAL DIMENSIONS SHALL BE SUITABLE TO WITHSTAND THE ANTICIPATED LOADS FOR THE GIVEN CATCH BASIN CONFIGURATIONS AND PIPE PENETRATIONS.
- PIPE PENETRATIONS SHALL BE CORED OR BLOCKED OUT. CONCRETE STORM PIPE CONNECTIONS SHALL BE SEALED WITH NON-SHRINK GROUT. SUBDRAIN CONNECTIONS SHALL BE MADE WITH A FLEXIBLE CONNECTOR.
- PROVIDE ROUND RUBBER GASKET MEETING ASTM C-443 BETWEEN MANHOLE SECTION JOINTS.
- MANHOLE COVER AND CATCH BASIN COVER SHALL CONFORM TO ONE OF THE REQUIREMENTS WITHIN THE SPECIFICATIONS.
 - FRAMES SHALL BE CAST INTO THE CONCRETE OR BOLTED TO THE CONCRETE STRUCTURE.
 - CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE SELECTED COVERS FOR ENGINEER APPROVAL.
- PLACE MANHOLES ON 12" OF COMPACTED BEDDING. PLACE CATCH BASINS ON 8" OF COMPACTED BEDDING.



NOTES:
DESIGN LOAD: 100,000 LB. DUAL TANDEM WHEEL LOADING

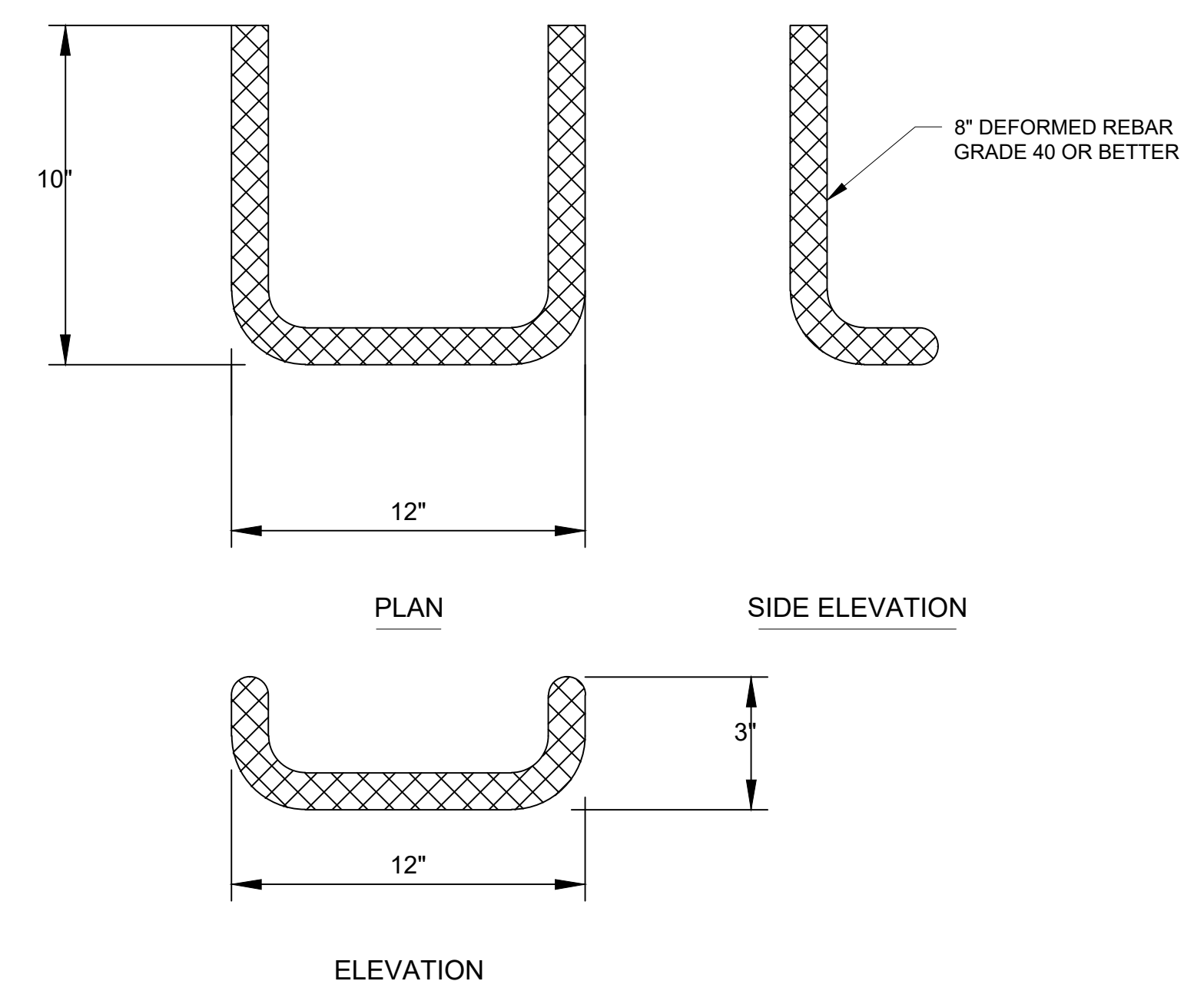
2 PRECAST CATCH BASIN
NO SCALE



PIPE DIA. "D"	MIN. "A"
15" & LESS	8"
18" TO 21"	10"
24" TO 30"	12"
33" TO 42"	15"
48" & LARGER	18"

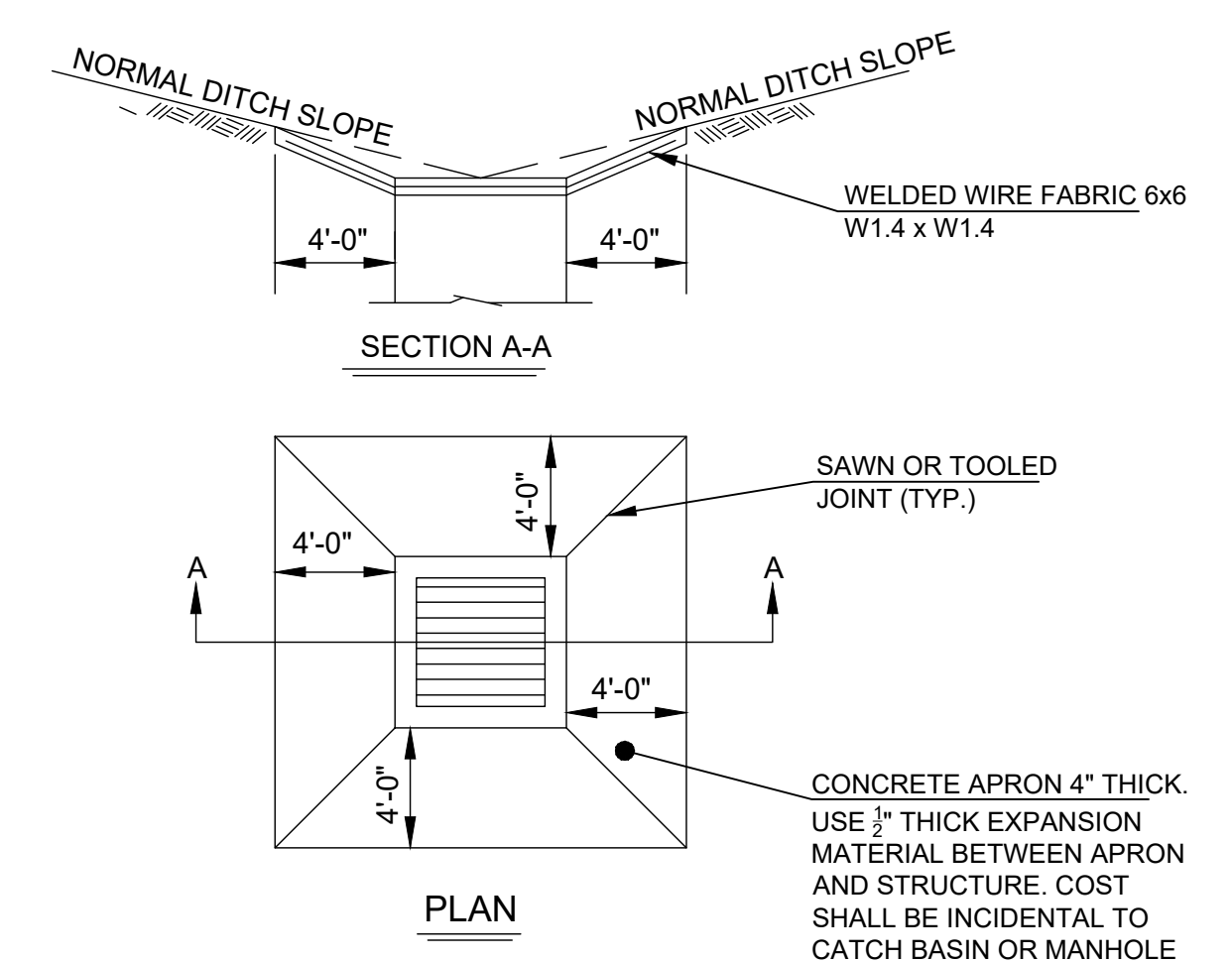
- NOTES:
- ALL RCP JOINTS AND PICK HOLES SHALL BE WRAPPED WITH A MINIMUM OF 3 LF OF NON-WOVEN FILTER FABRIC.
 - COST IS INCIDENTAL TO ITEM D-701.

4 PIPE BEDDING FOR R.C.P.
NO SCALE



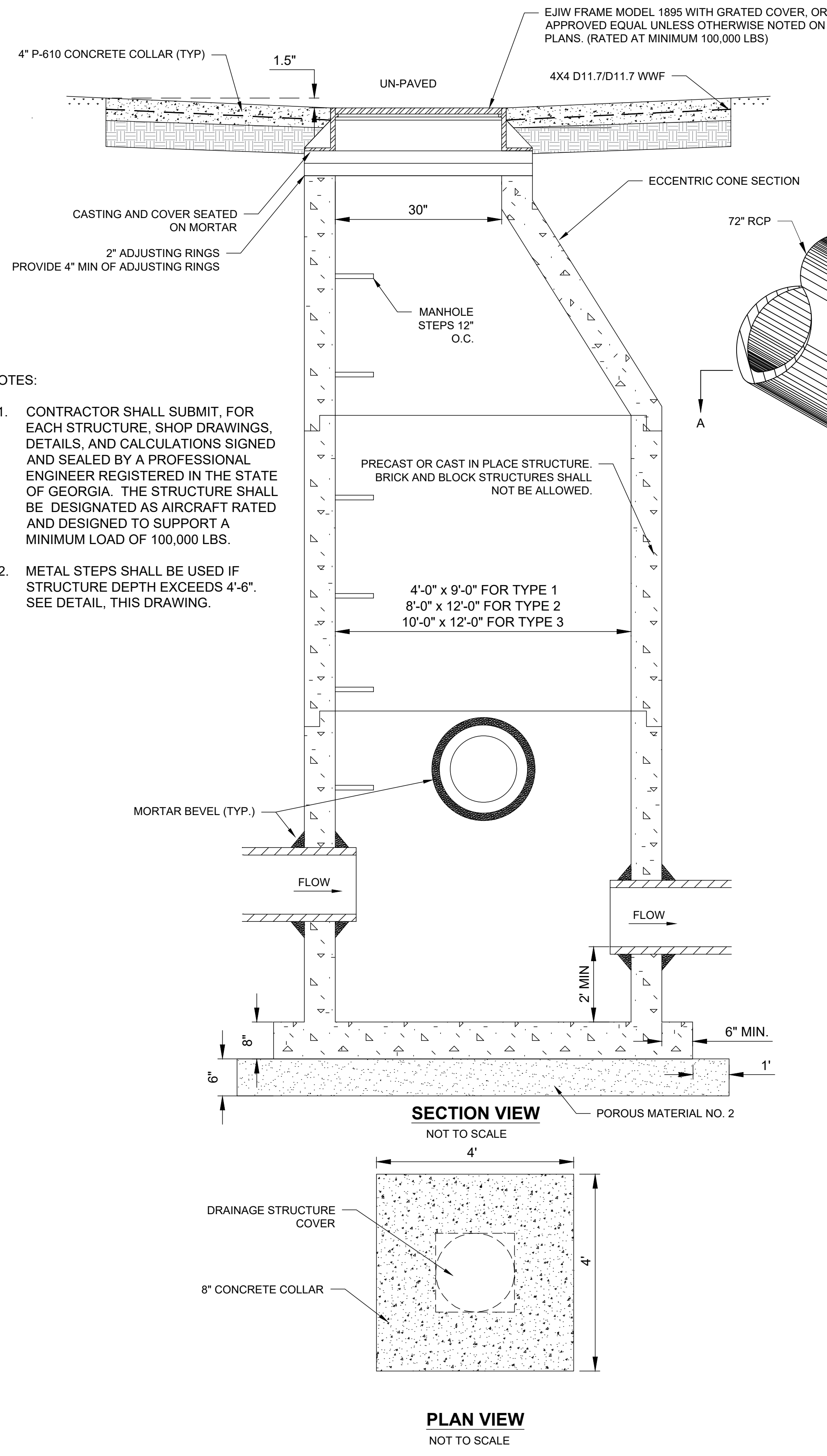
3 METAL STEP DETAIL
NO SCALE

- NOTES:
- STEPS DIFFERING IN DIMENSIONS, CONFIGURATION, OR MATERIALS FROM THOSE SHOWN MAY ALSO BE USED PROVIDED THE CONTRACTOR HAS FURNISHED THE ENGINEER WITH DETAILS OF THE PROPOSED STEPS AND HAS RECEIVED WRITTEN APPROVAL FROM THE ENGINEER FOR THE USE OF SUCH STEPS.
 - ALL STEPS SHALL PROTRUDE 7" FROM INSIDE FACE OF STRUCTURE WALL.
 - STEPS SHALL BE PLACED 15" CENTER TO CENTER ON WALL.



5 CONCRETE APRON DETAIL
NO SCALE

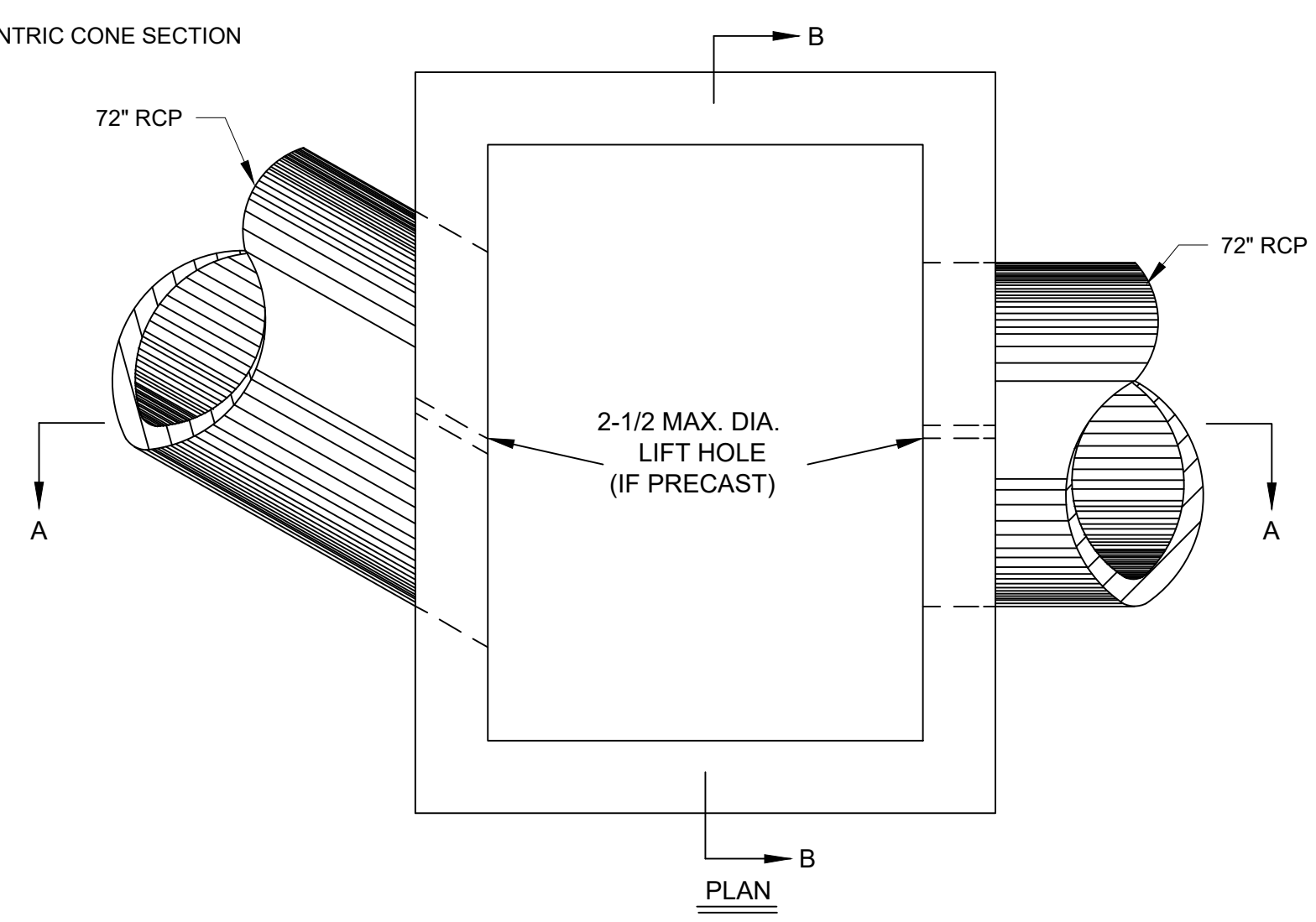
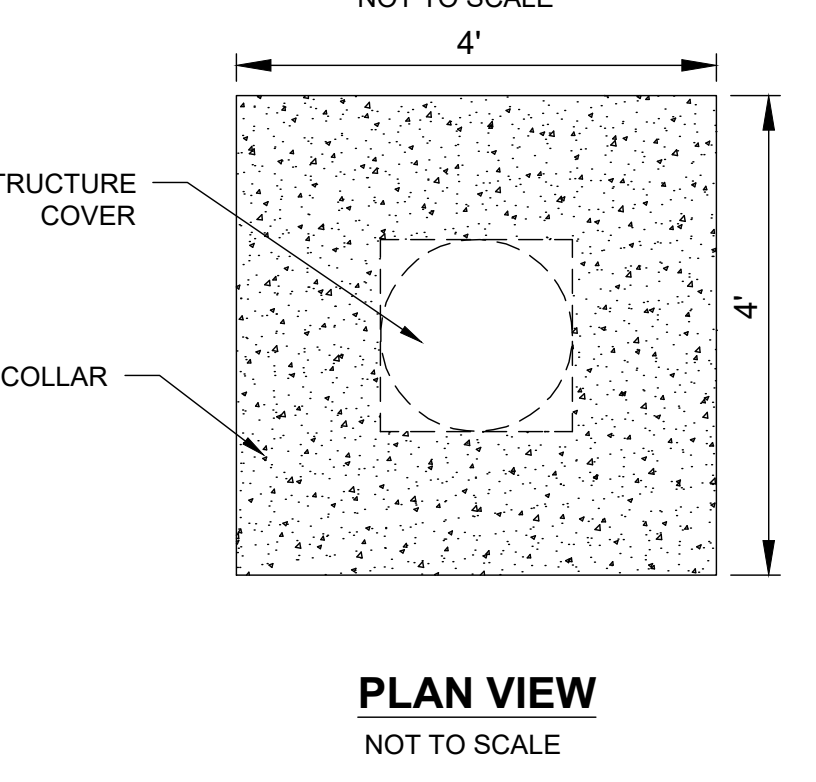
- NOTES:
- CONCRETE APRON SHALL BE INSTALLED ON NEW CATCH BASINS AND MANHOLES.



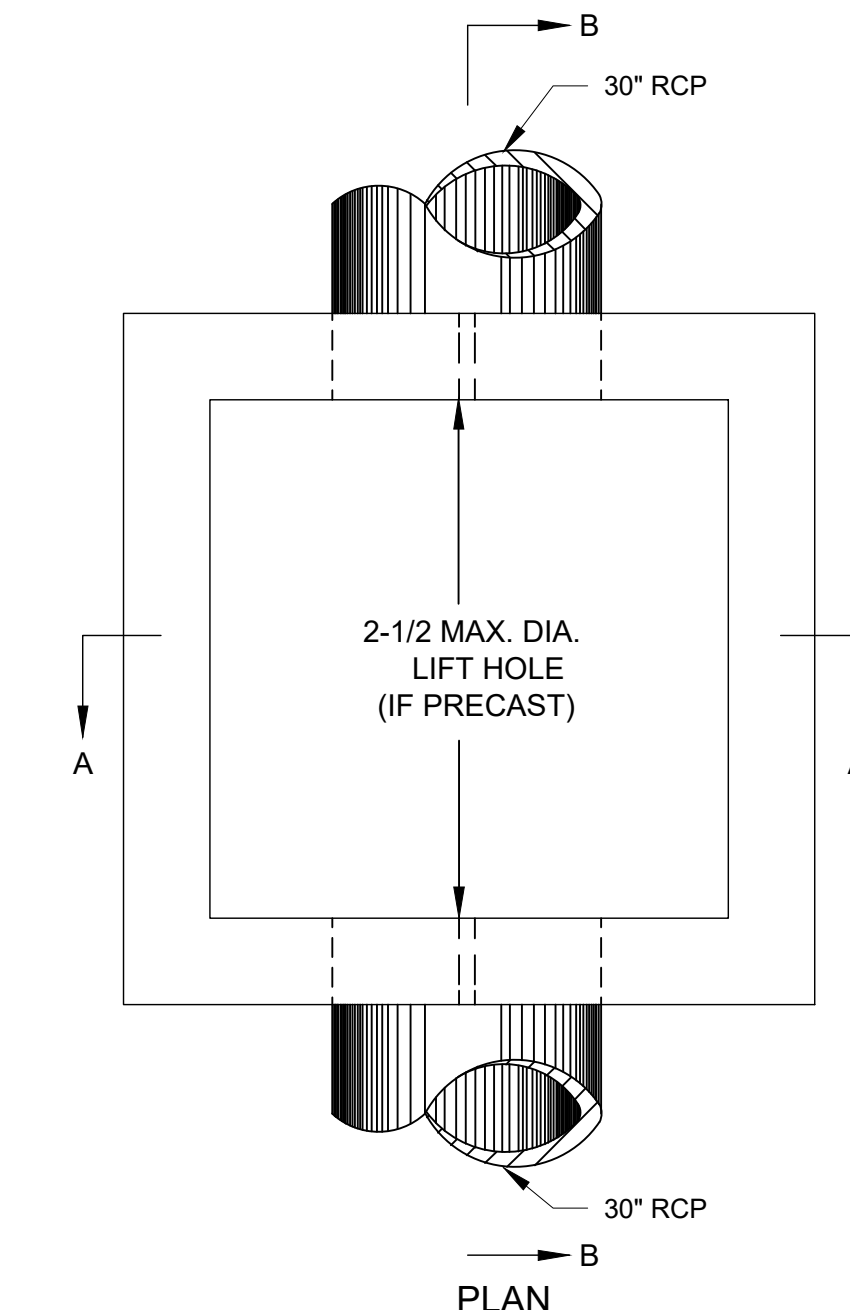
NOTES:

- CONTRACTOR SHALL SUBMIT, FOR EACH STRUCTURE, SHOP DRAWINGS, DETAILS, AND CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF GEORGIA. THE STRUCTURE SHALL BE DESIGNATED AS AIRCRAFT RATED AND DESIGNED TO SUPPORT A MINIMUM LOAD OF 100,000 LBS.
- METAL STEPS SHALL BE USED IF STRUCTURE DEPTH EXCEEDS 4'-6". SEE DETAIL, THIS DRAWING.

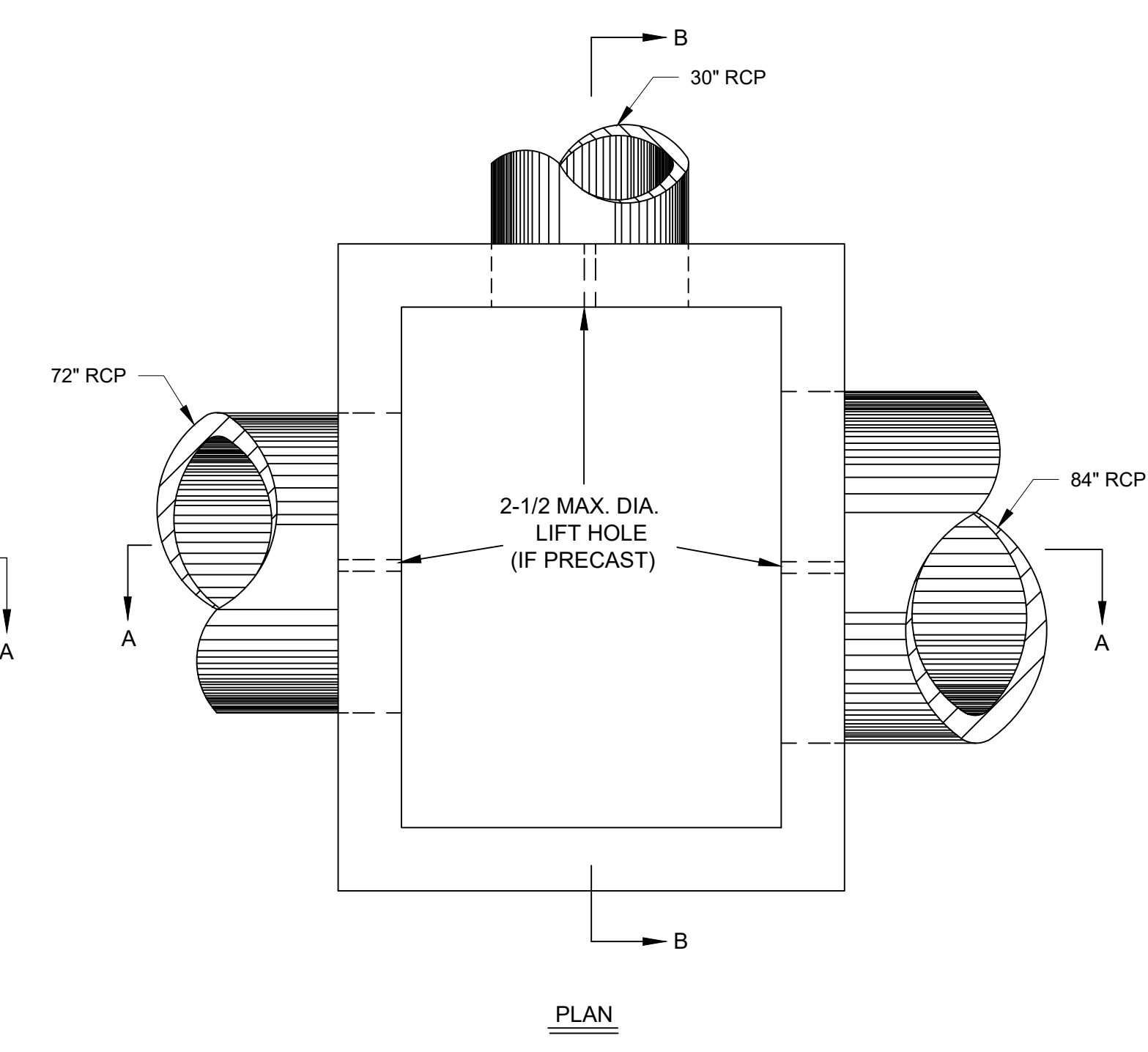
1 MANHOLE STRUCTURE TYPICAL SECTION DETAIL
NO SCALE



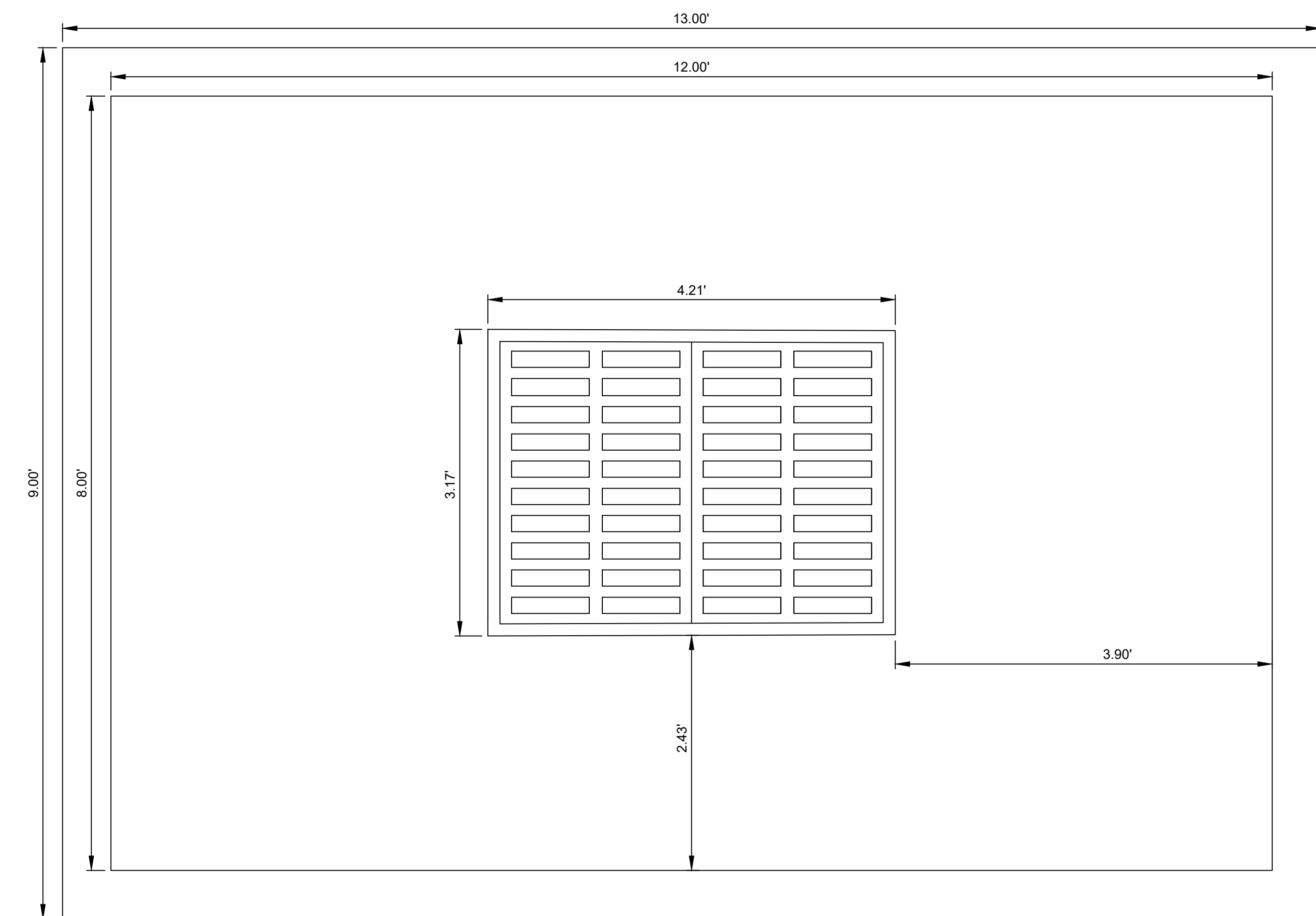
2 PRECAST CATCH BASIN TYPE B - CB1:STA 12+65.84
NO SCALE



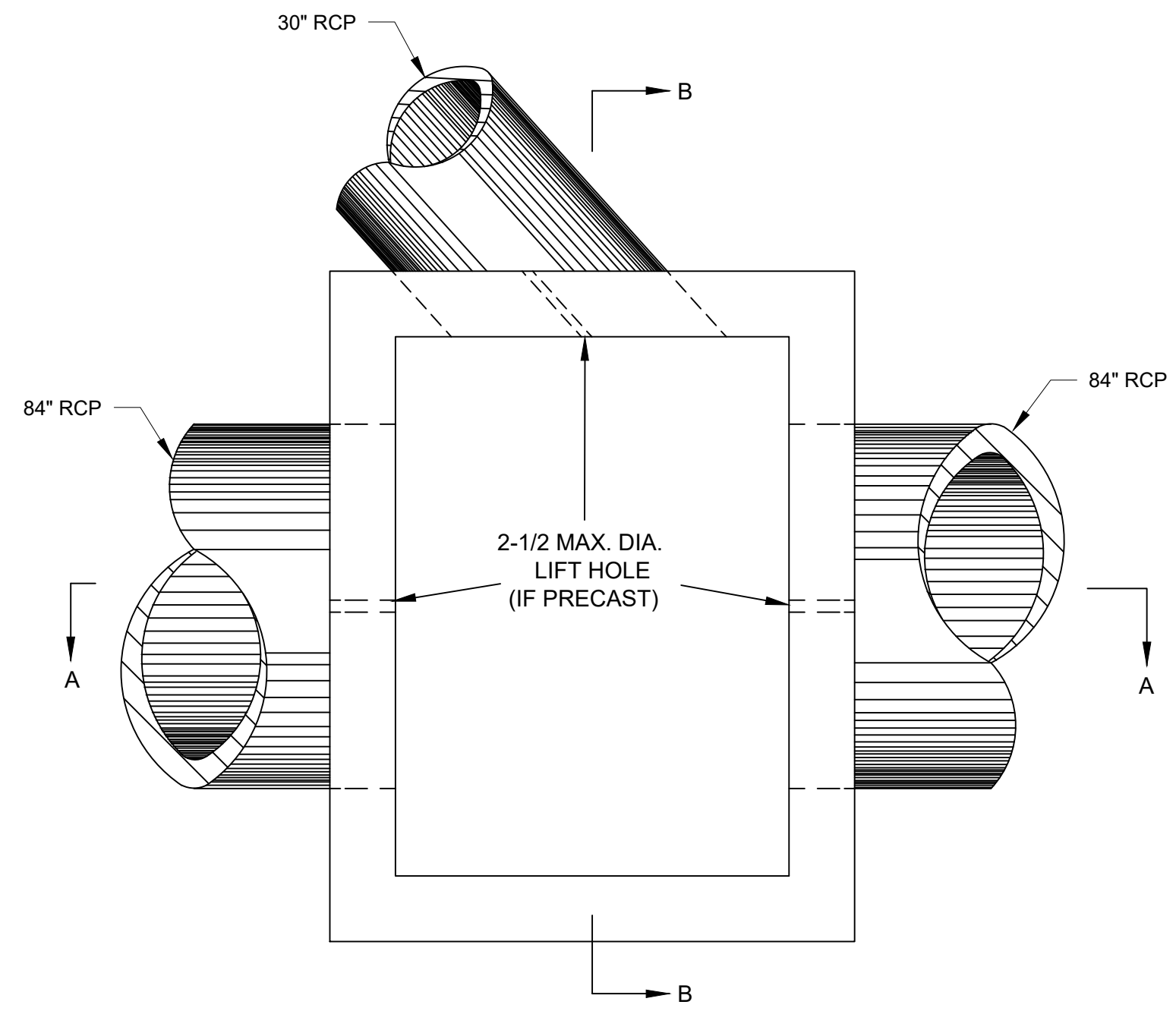
3 PRECAST CATCH BASIN TYPE A - CB2:STA 11+08.01
NO SCALE



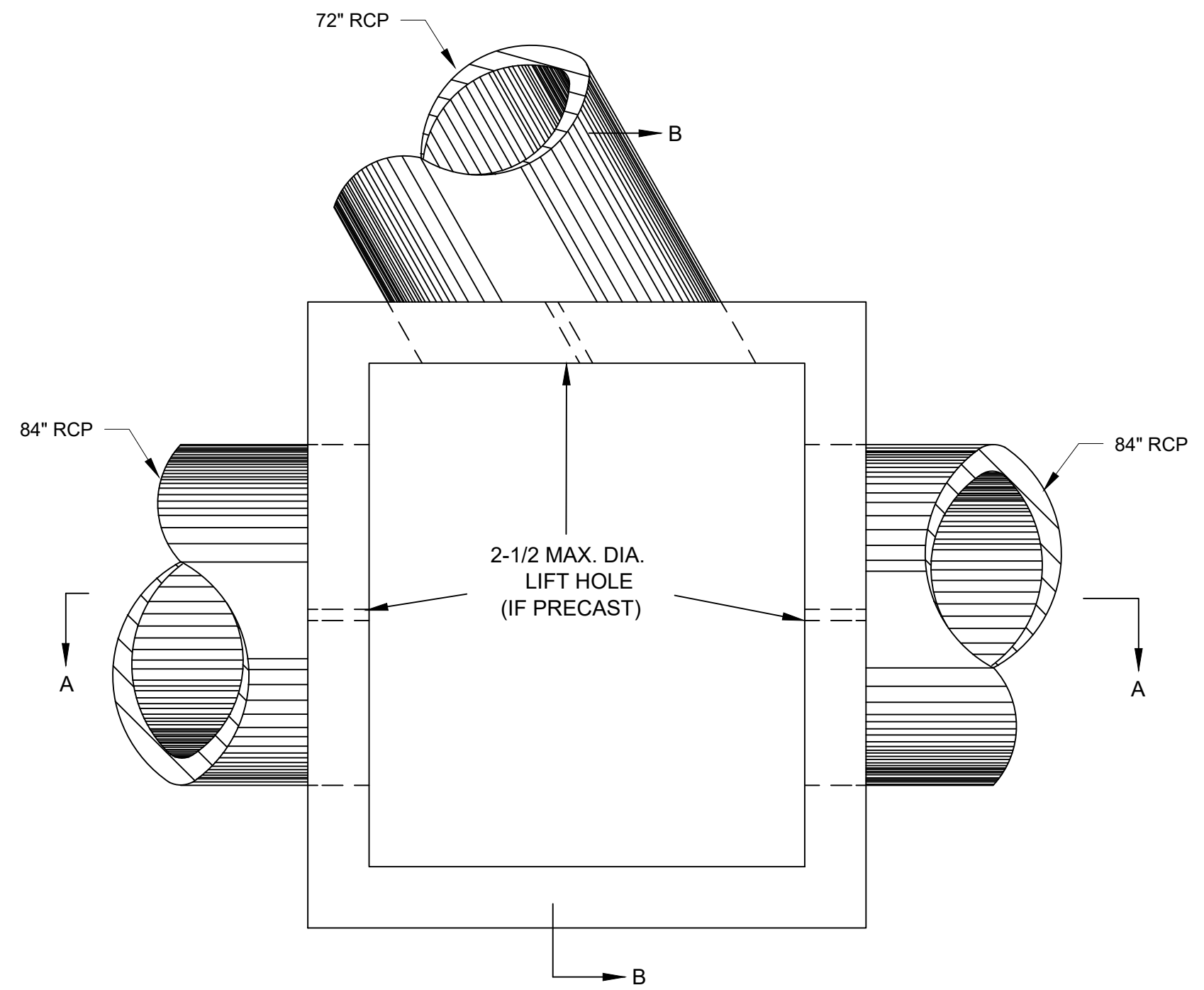
4 PRECAST MANHOLE STRUCTURE TYPE 1 - MH1:STA 16+83.04
NO SCALE



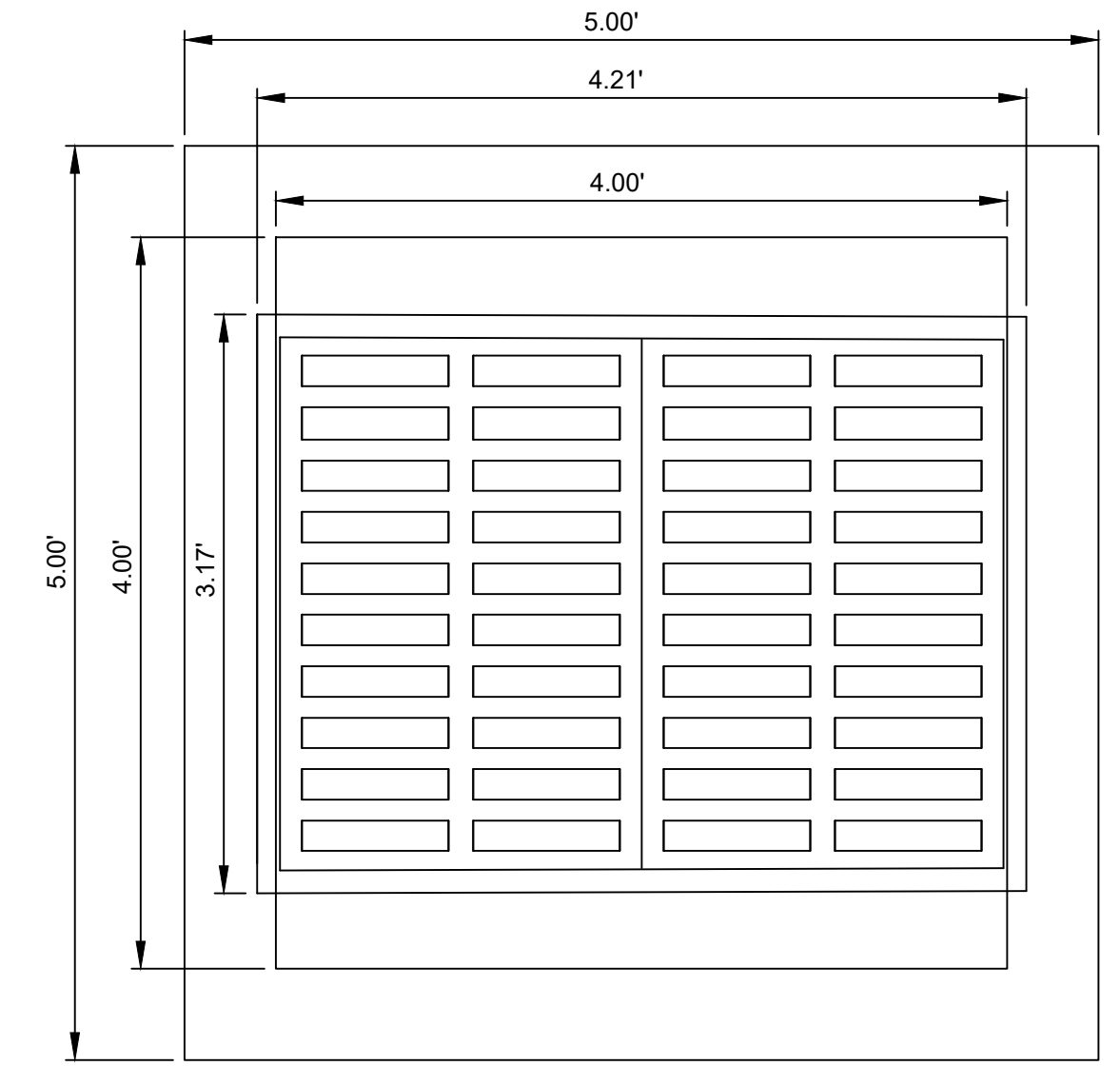
5 PRECAST CATCH BASIN TYPE B - CB1:STA 12+65.84
NO SCALE



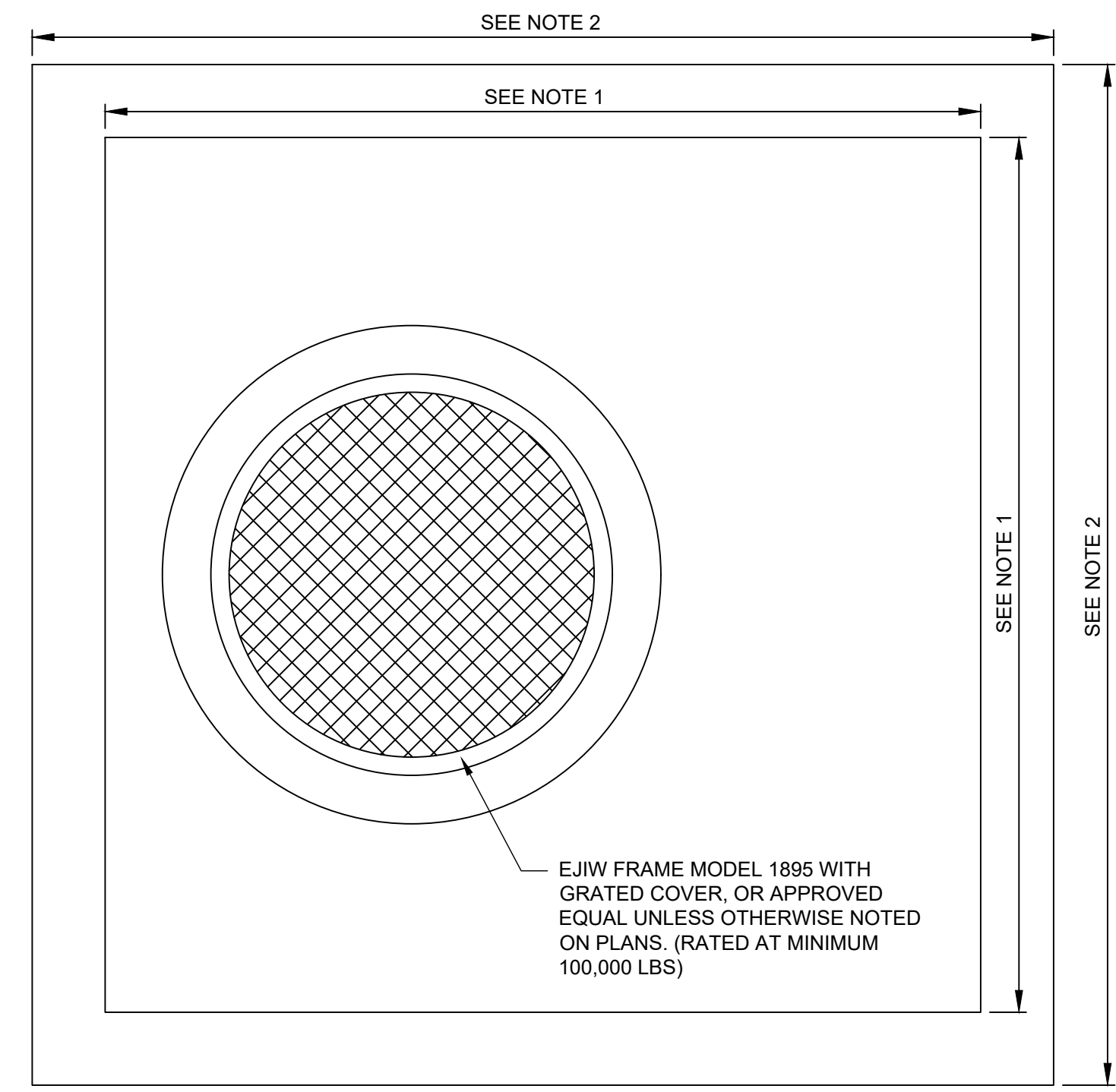
PLAN
1 PRECAST MANHOLE STRUCTURE
 TYPE 2 - MH2:STA 22+44.46
 NO SCALE



PLAN
2 PRECAST MANHOLE STRUCTURE
 TYPE 3 - MH3:STA 27+62.33
 NO SCALE



3 PRECAST CATCH BASIN
 TYPE A - CB2:STA 11+08.01
 NO SCALE



4 PRECAST MANHOLE
 TYPE 1-3 TYPICAL DETAIL
 NO SCALE

- NOTE:
- 4'-0" x 9'-0" FOR TYPE 1
 8'-0" x 12'-0" FOR TYPE 2
 10'-0" x 12'-0" FOR TYPE 3
 - 5'-0" x 10'-0" FOR TYPE 1
 9'-0" x 13'-0" FOR TYPE 2
 11'-0" x 13'-0" FOR TYPE 3
 - OUTER DIMENSIONS MAY VARY DEPENDING UPON NECESSARY WALL THICKNESS DETERMINED BY THE DESIGNING ENGINEER TO MEET LOAD REQUIREMENTS.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	STP00-2868-00(000)	150	258

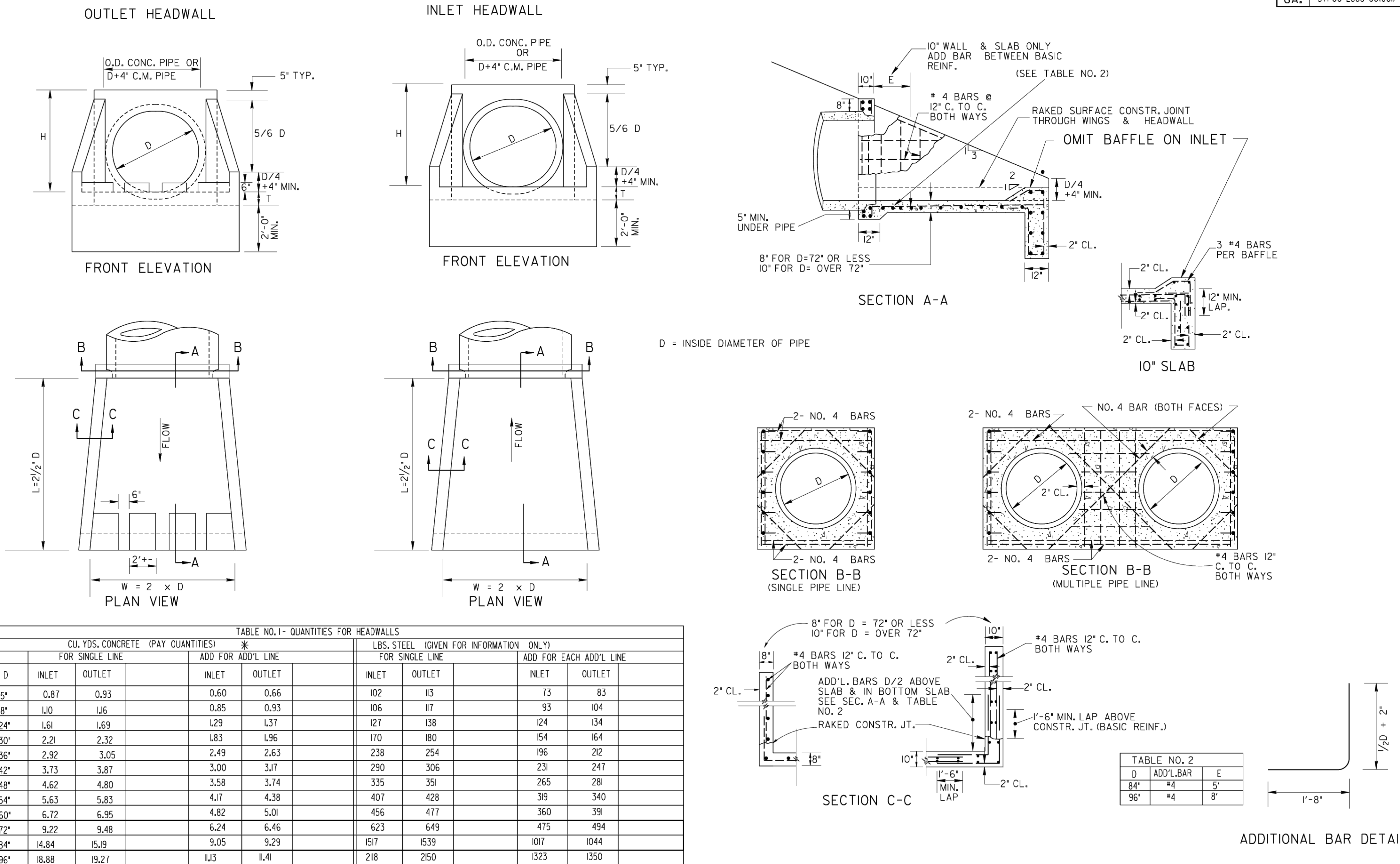


TABLE NO. 1 - QUANTITIES FOR HEADWALLS

D	CU. YDS. CONCRETE (PAY QUANTITIES) *				LBS. STEEL (GIVEN FOR INFORMATION ONLY)			
	FOR SINGLE LINE		ADD FOR ADD'L LINE		FOR SINGLE LINE		ADD FOR EACH ADD'L LINE	
	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
15"	0.87	0.93	0.60	0.66	102	113	73	83
18"	1.10	1.16	0.85	0.93	106	117	93	104
24"	1.61	1.69	1.29	1.37	127	138	124	134
30"	2.21	2.32	1.83	1.96	170	180	154	164
36"	2.92	3.05	2.49	2.63	238	254	196	212
42"	3.73	3.87	3.00	3.17	290	306	231	247
48"	4.62	4.80	3.58	3.74	335	351	265	281
54"	5.63	5.83	4.17	4.38	407	428	319	340
60"	6.72	6.95	4.82	5.01	456	477	360	391
72"	9.22	9.48	6.24	6.46	623	649	475	494
84"	14.84	15.19	9.05	9.29	1517	1539	1017	1044
96"	18.88	19.27	11.13	11.41	2118	2150	1323	1350

* NOTE: QUANTITIES SHOWN WILL BE ACTUAL PAY QUANTITIES FOR CLASS "A" CONCRETE, INCLUDING REINFORCED STEEL. NO ADJUSTMENT WILL BE MADE FOR AS BUILT QUANTITIES.

D - INSIDE DIAMETER OF PIPE CULVERT

H = D + 10" MIN. FOR C.M. PIPE
 H = D + PIPE WALL THICKNESS + 8" FOR CONC. PIPE
 (13/12 D + 9" TYP.)

T = 8" FOR D = 72" OR LESS
 T = 10" FOR D = OVER 72"

DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION		STANDARD TAPERED INLET HEADWALL - OUTLET HEADWALL (BUILT-IN-PLACE)	
NO SCALE		REV. & REDR. OCT., 1999	
DES. (SUBMITTED)	TRA. (APPROVED)	CH. ENGR.	NUMBER
			1125

AUGUSTA REGIONAL AIRPORT SOUTHEAST DRAINAGE DITCH ENCLOSURE PH II 1501 AVIATION WAY AUGUSTA GA, 30906

ISSUED
ISSUED FOR BID

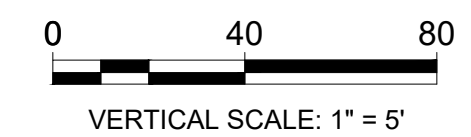
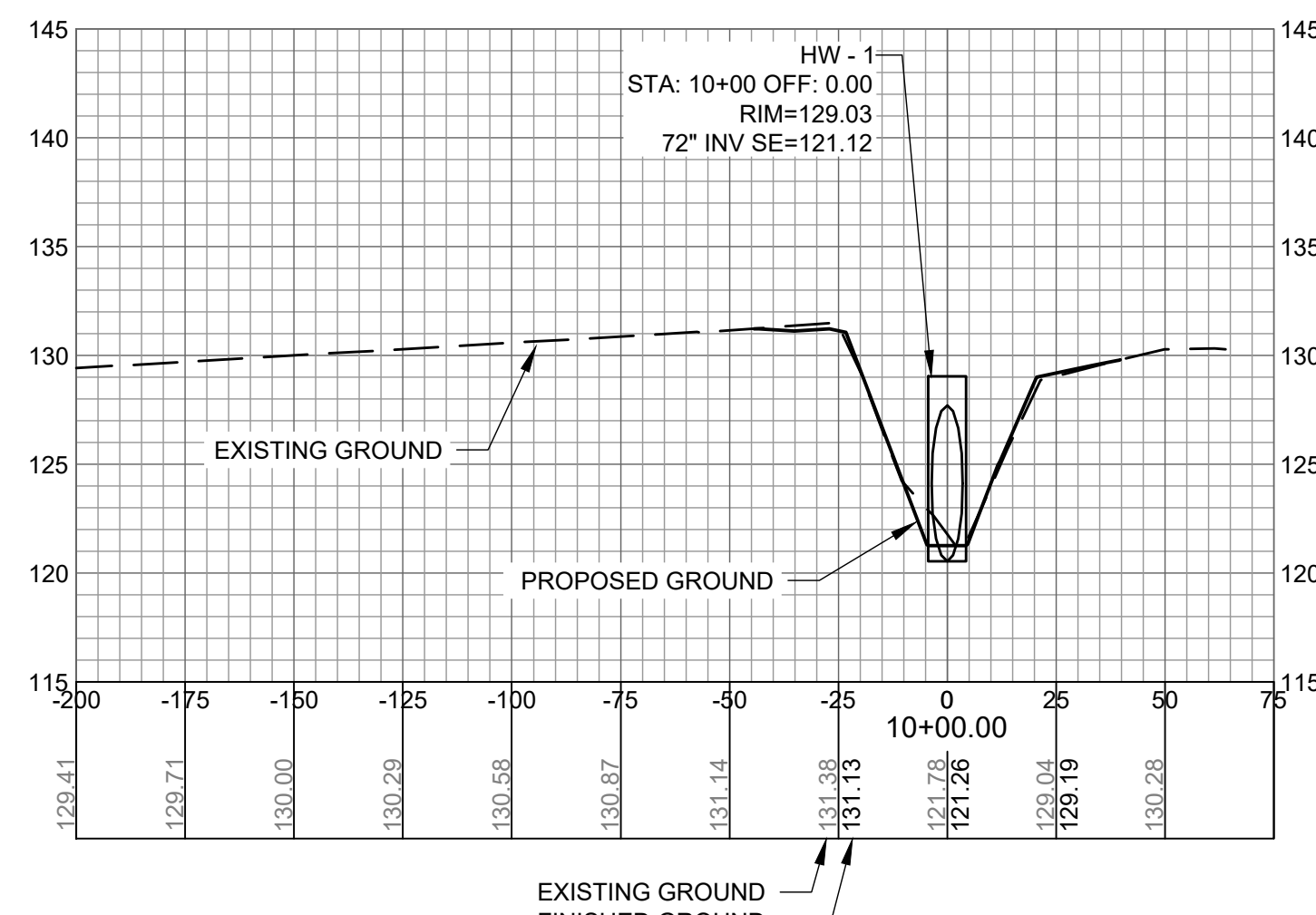
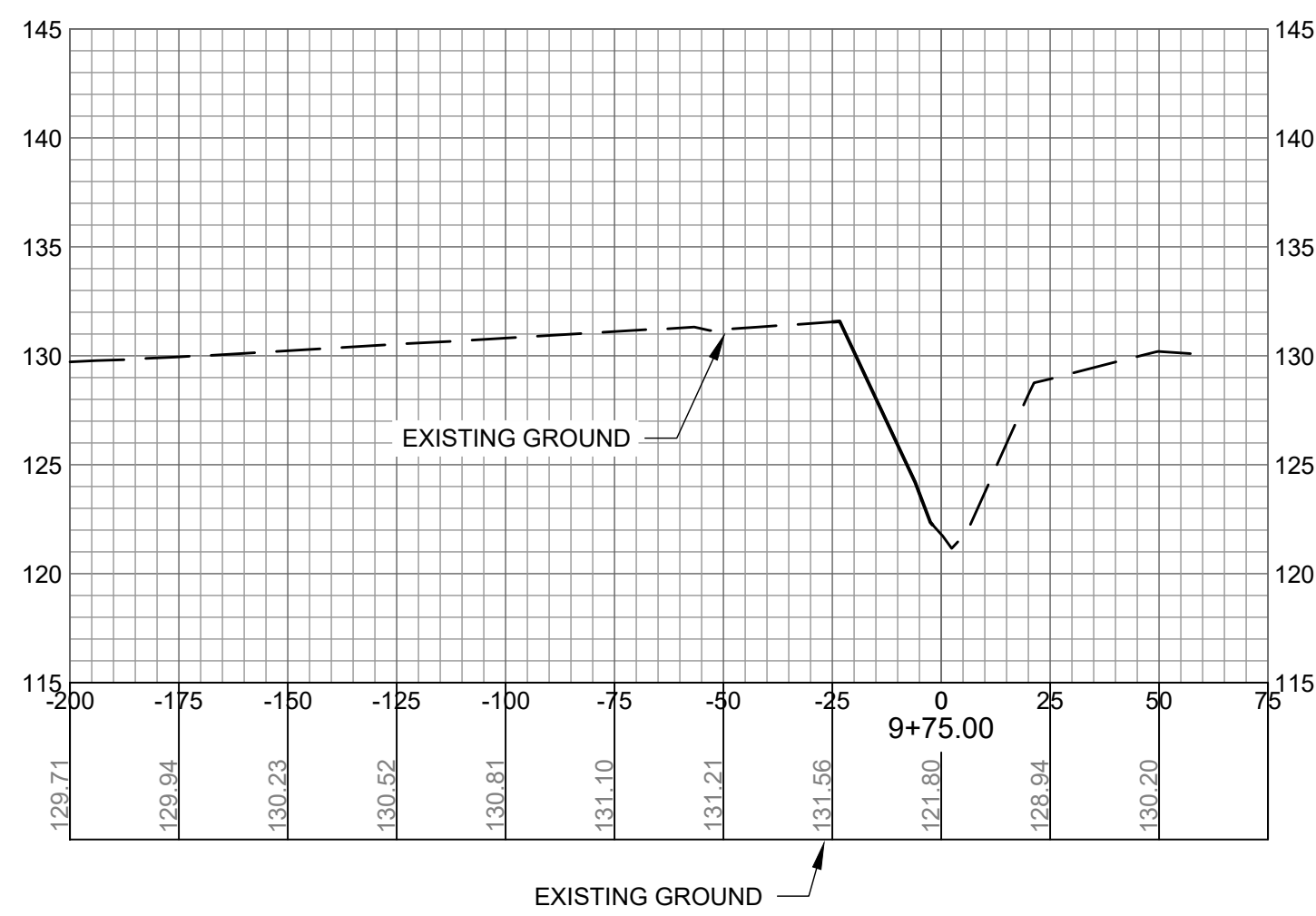
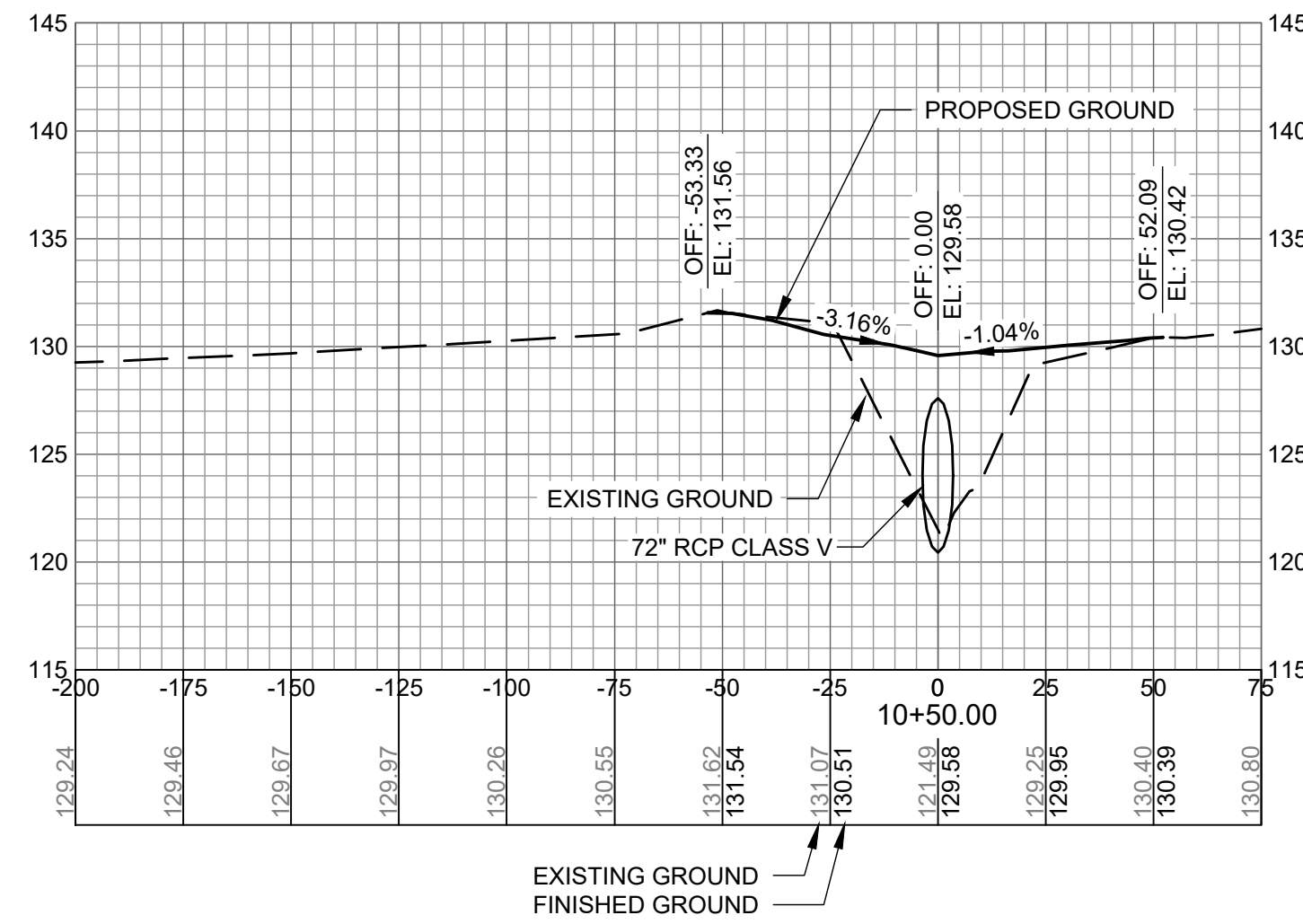
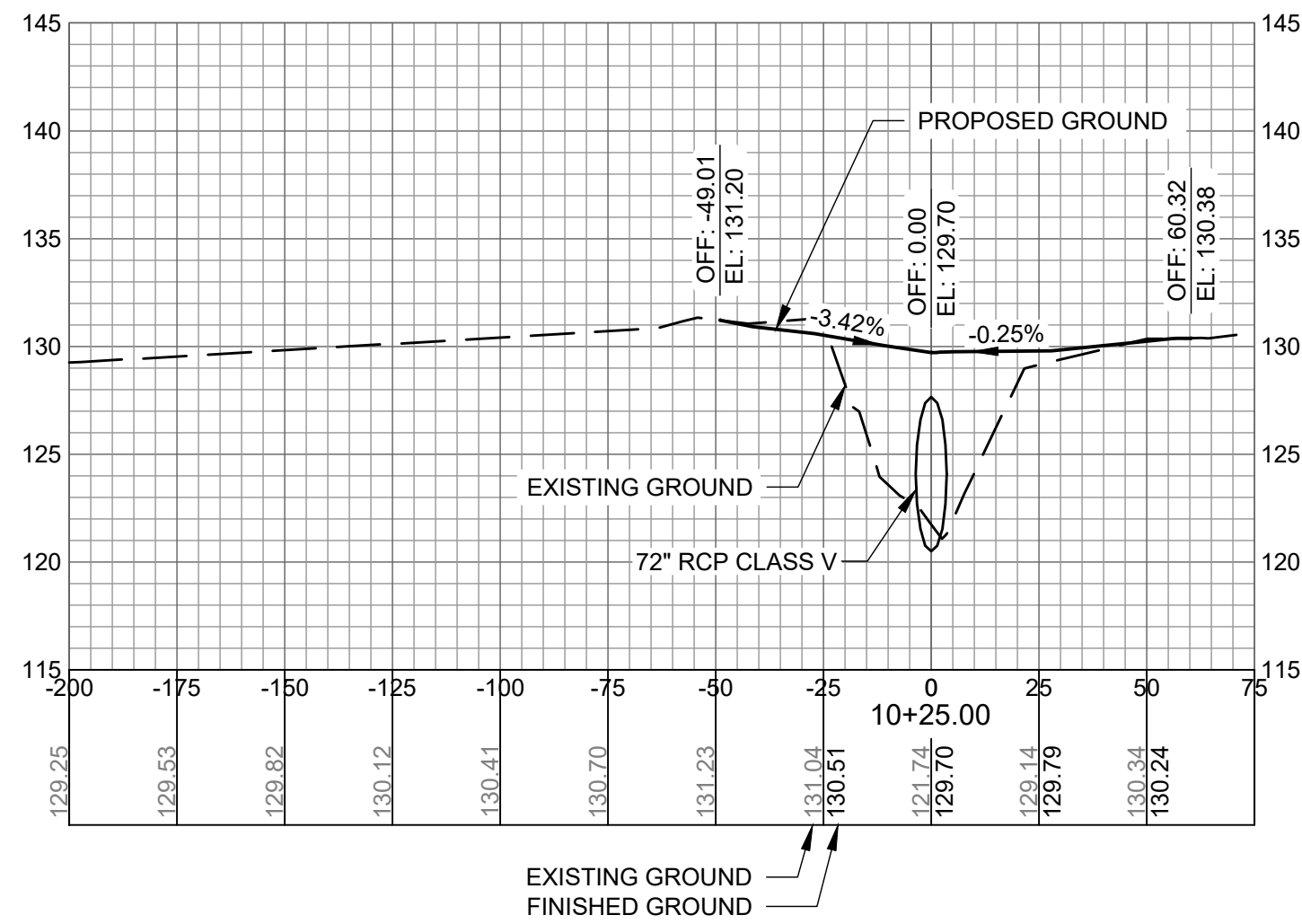
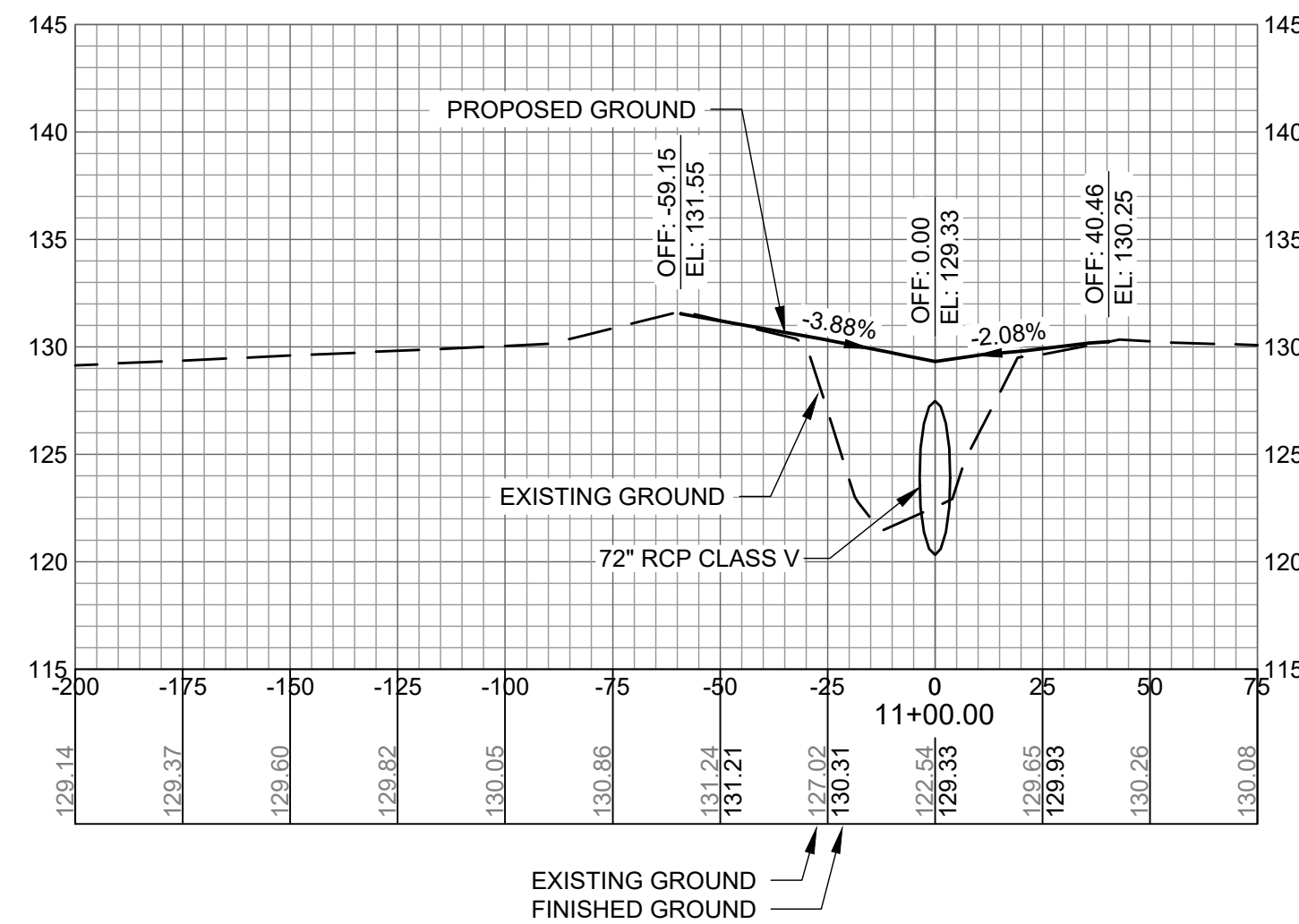
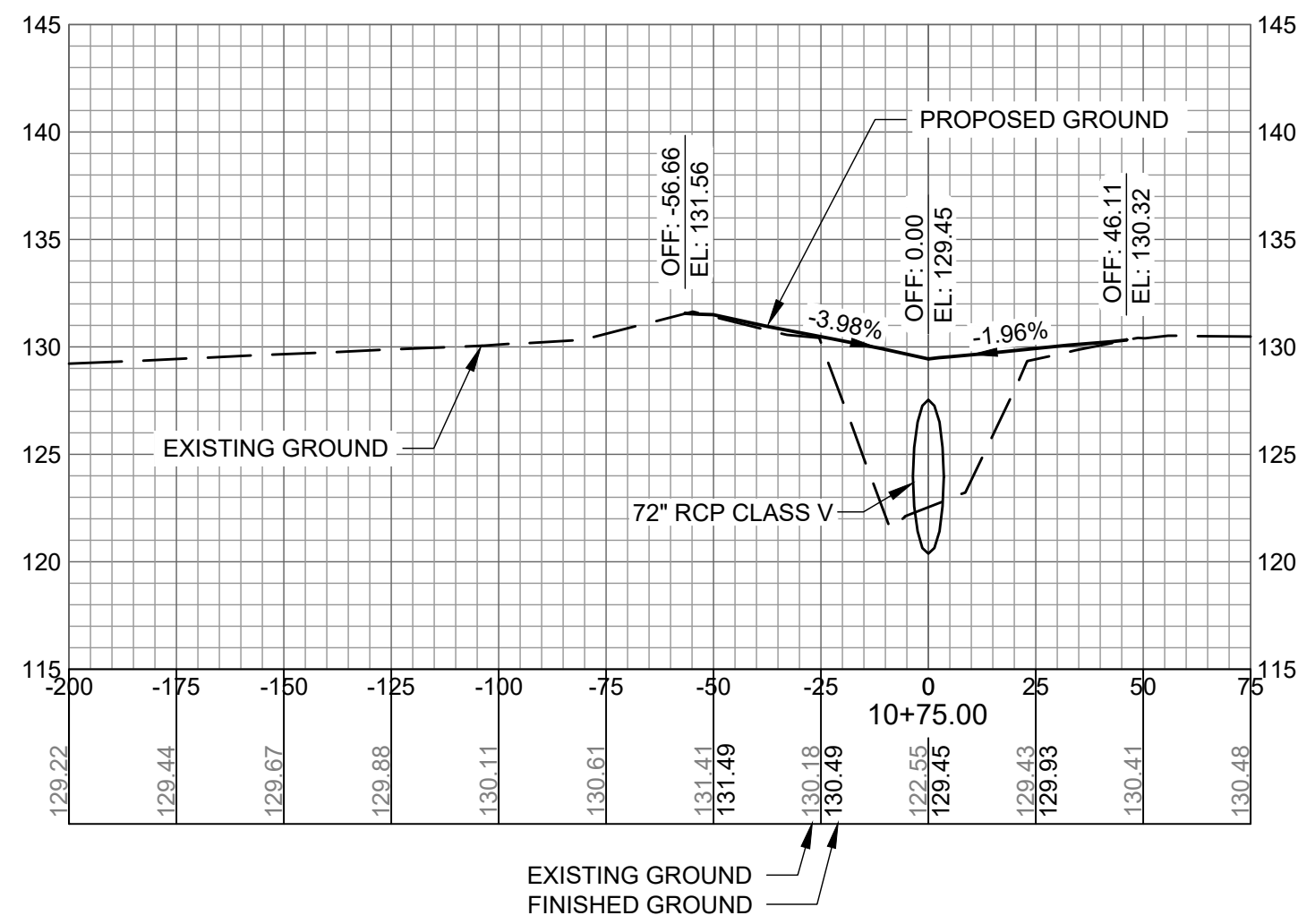
NOT FOR CONSTRUCTION

AG: M&H NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: NJH
DRAWN BY: NJH
CHECKED BY: EJS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
CROSS SECTIONS
9+75 TO 11+00

SHEET NO.

C-901



AUGUSTA REGIONAL AIRPORT SOUTHEAST DRAINAGE DITCH ENCLOSURE PH II 1501 AVIATION WAY AUGUSTA GA, 30906

ISSUED
ISSUED FOR BID

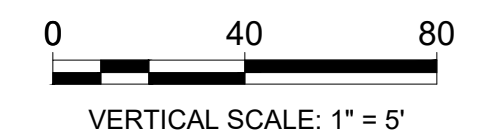
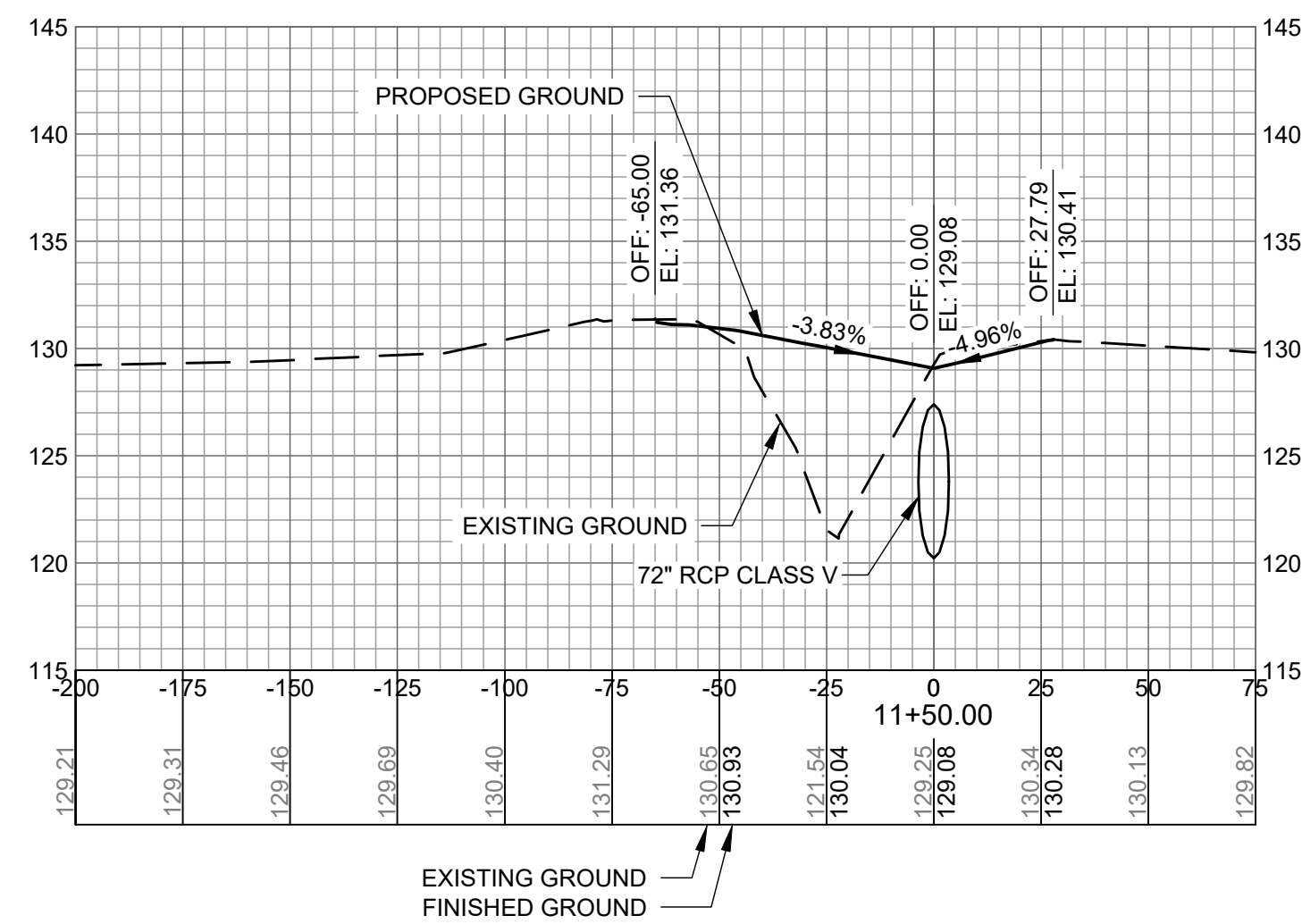
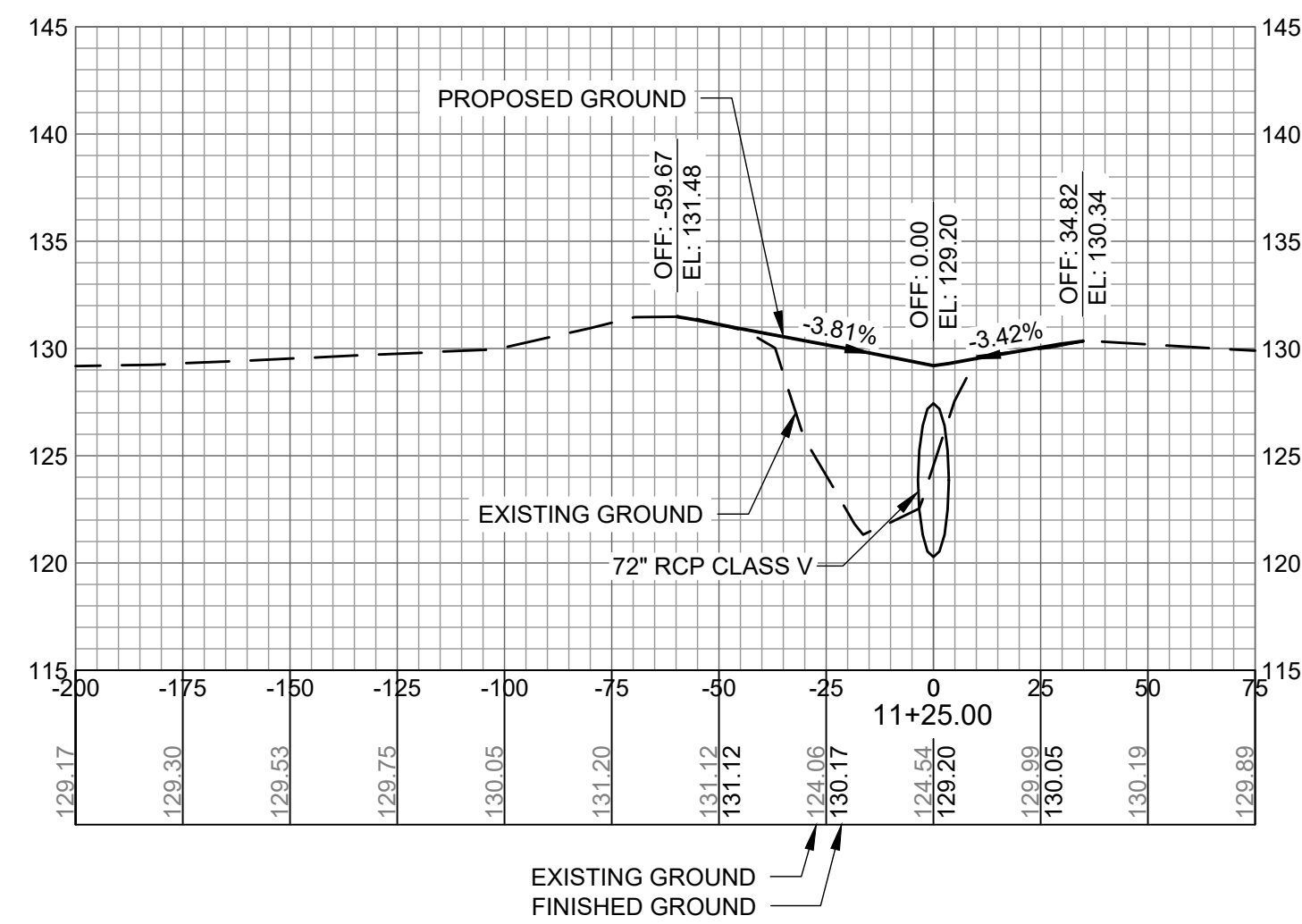
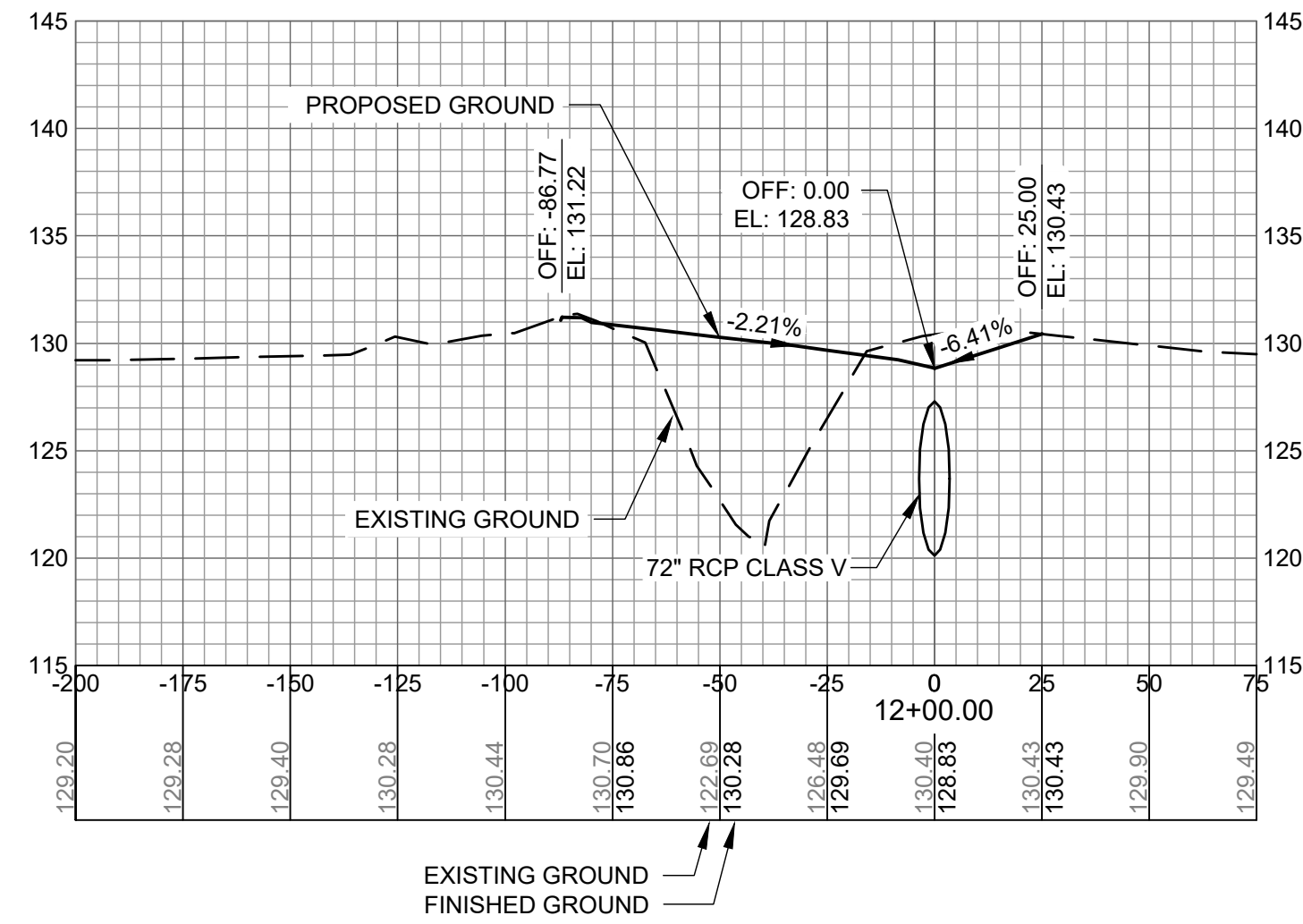
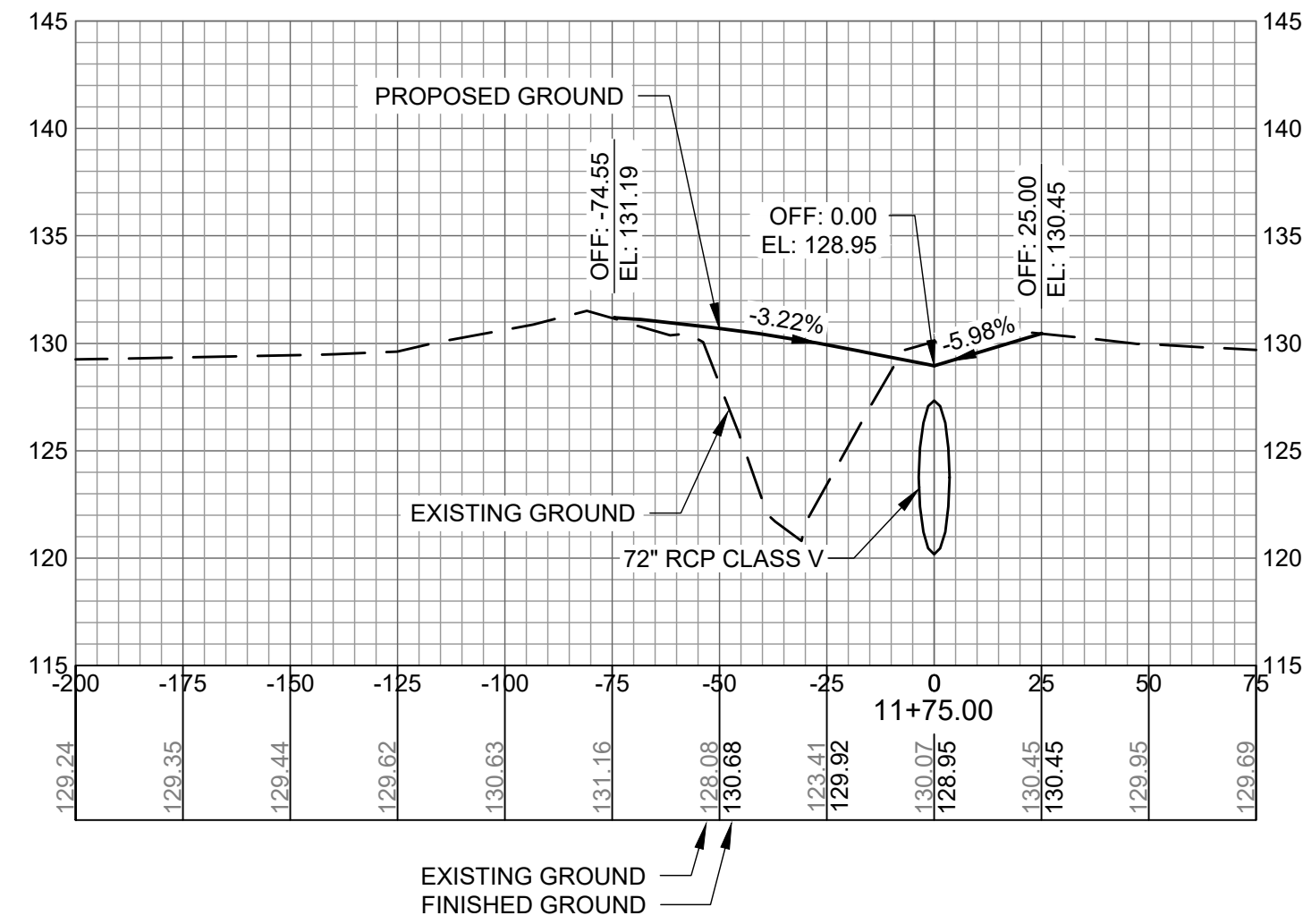
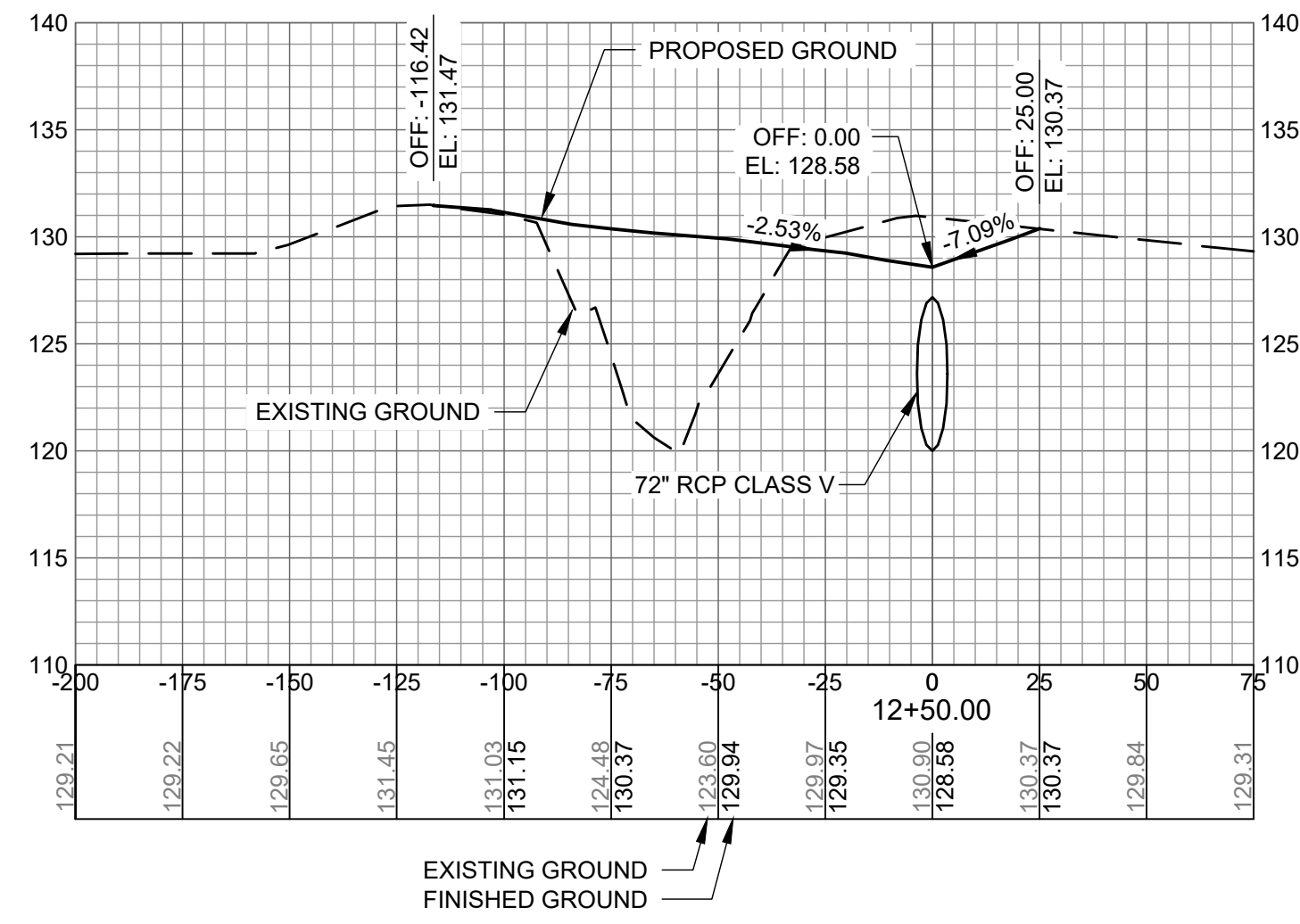
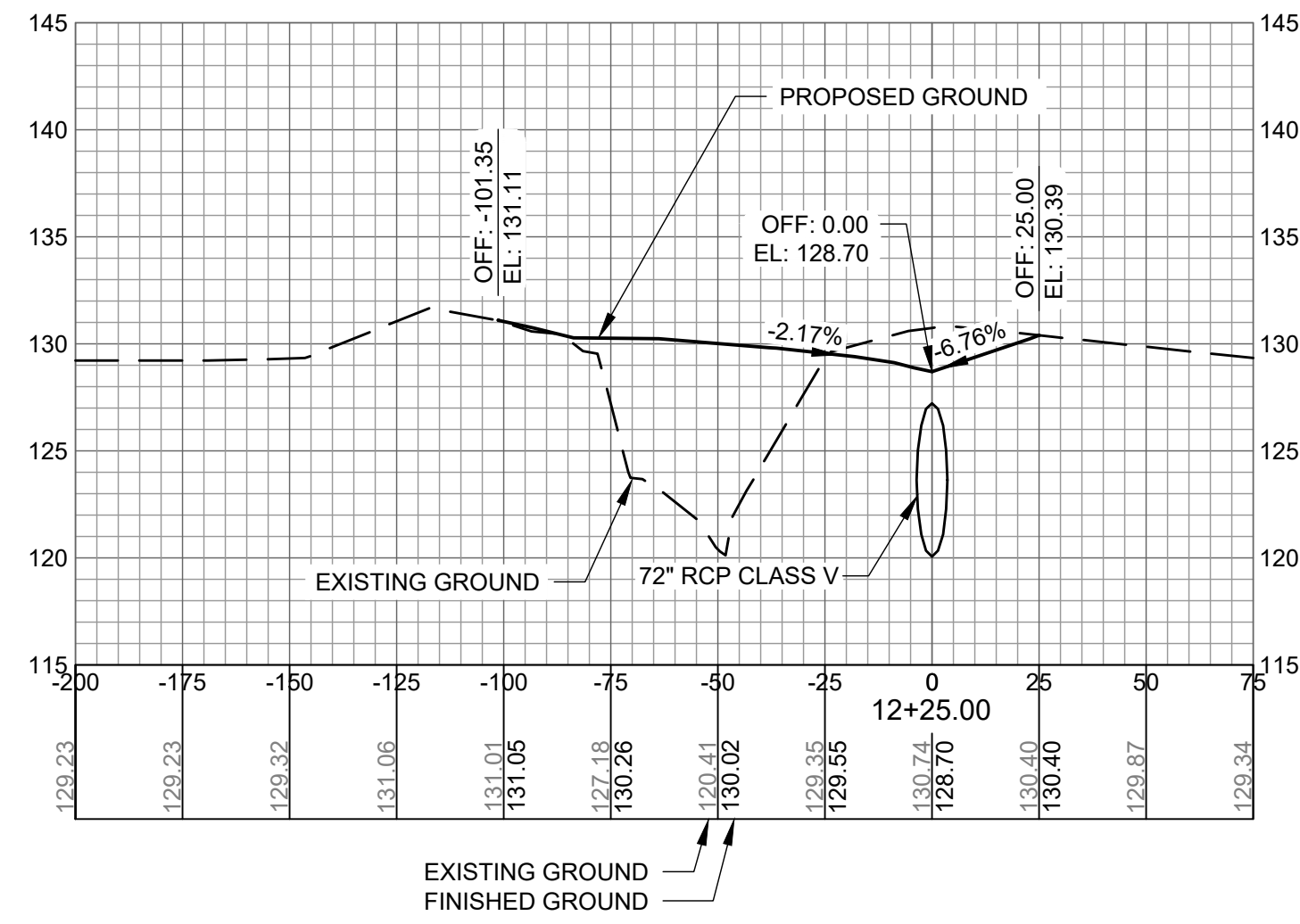
NOT FOR CONSTRUCTION

AGS:
M&H NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: NJH
DRAWN BY: NJH
CHECKED BY: EJS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
CROSS SECTIONS
11+00 TO 12+50

SHEET NO.

C-902



AUGUSTA REGIONAL AIRPORT SOUTHEAST DRAINAGE DITCH ENCLOSURE PH II 1501 AVIATION WAY AUGUSTA GA, 30906

ISSUED
ISSUED FOR BID

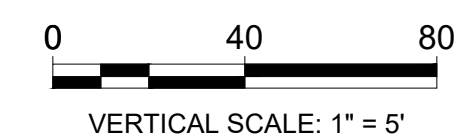
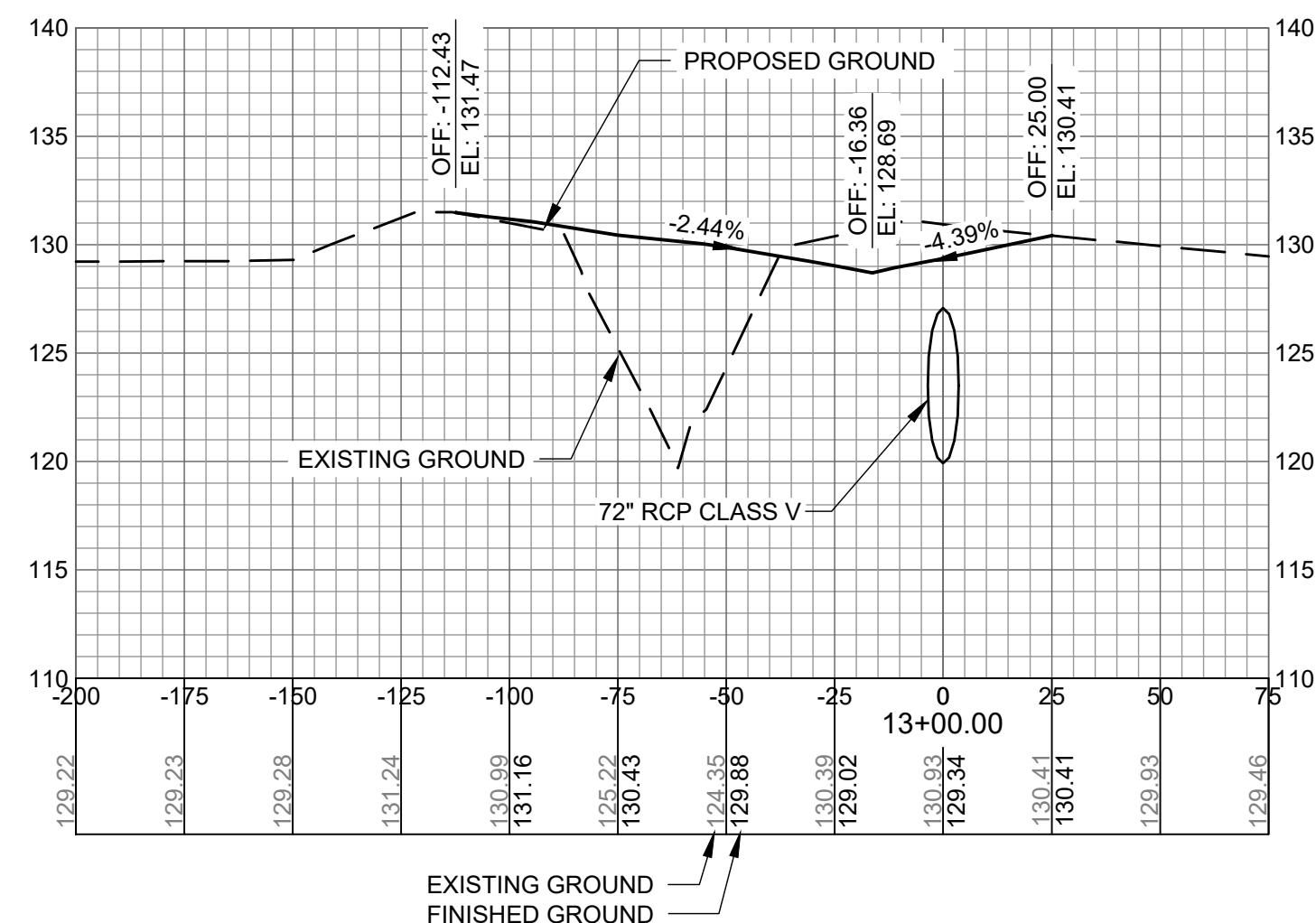
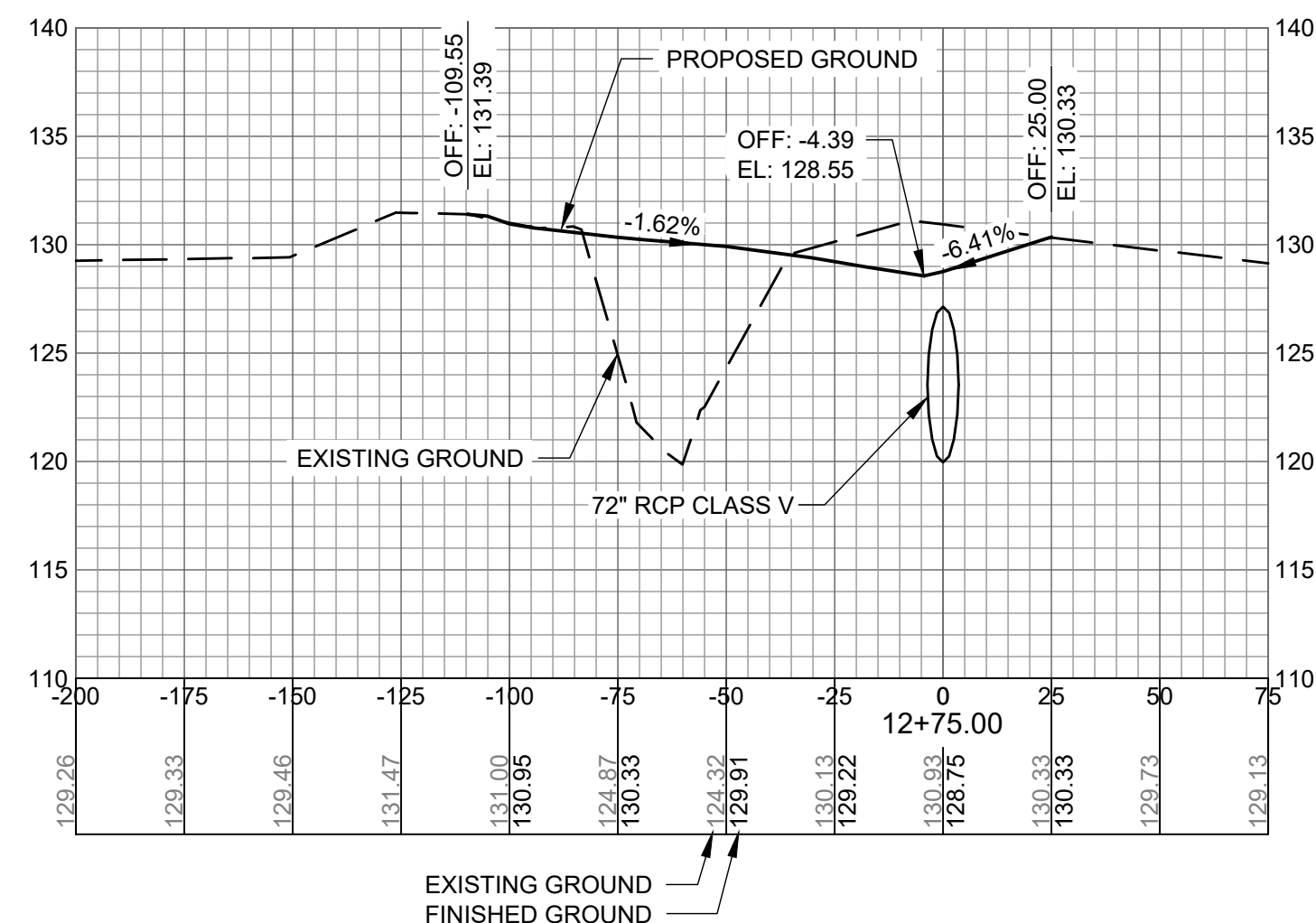
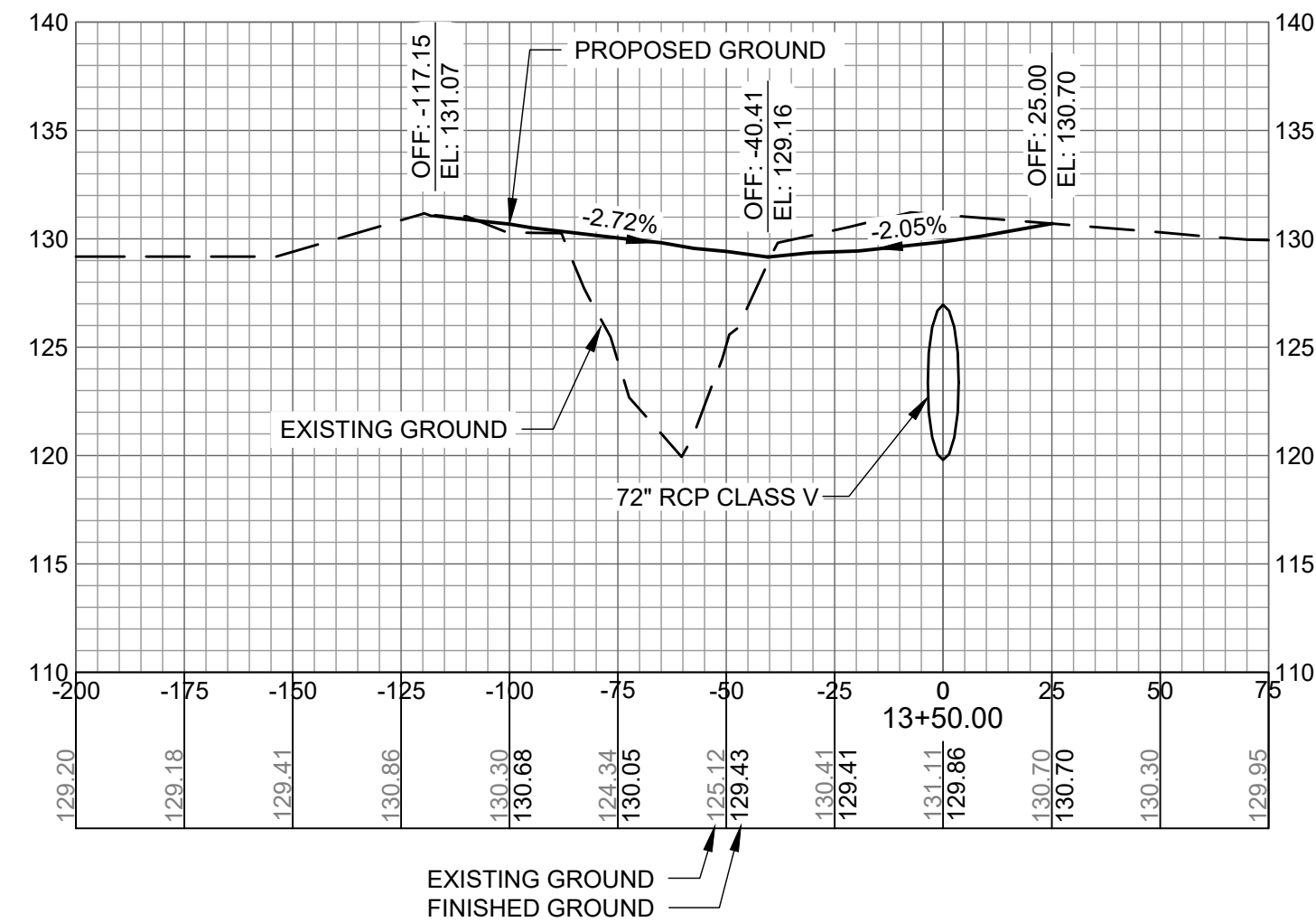
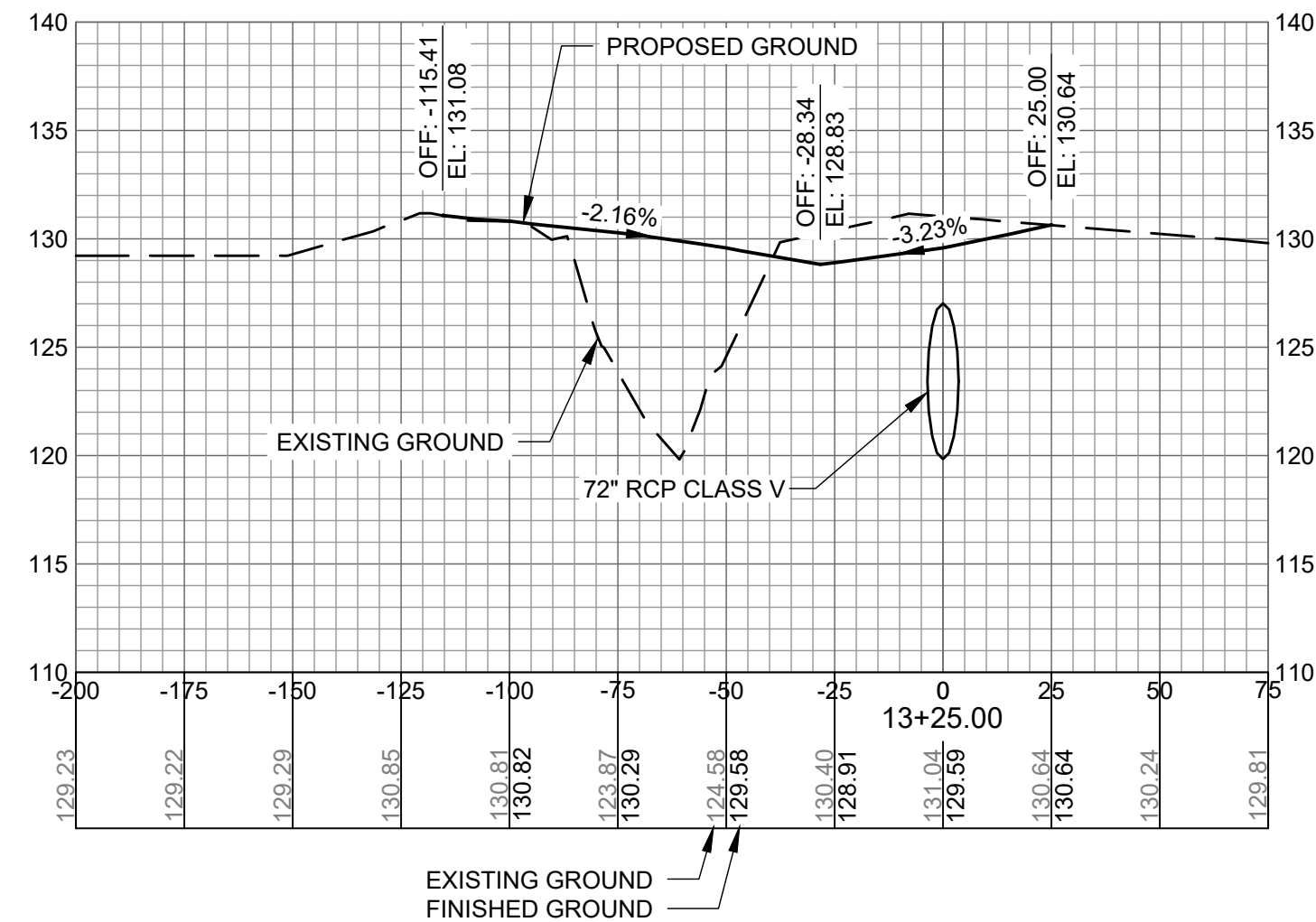
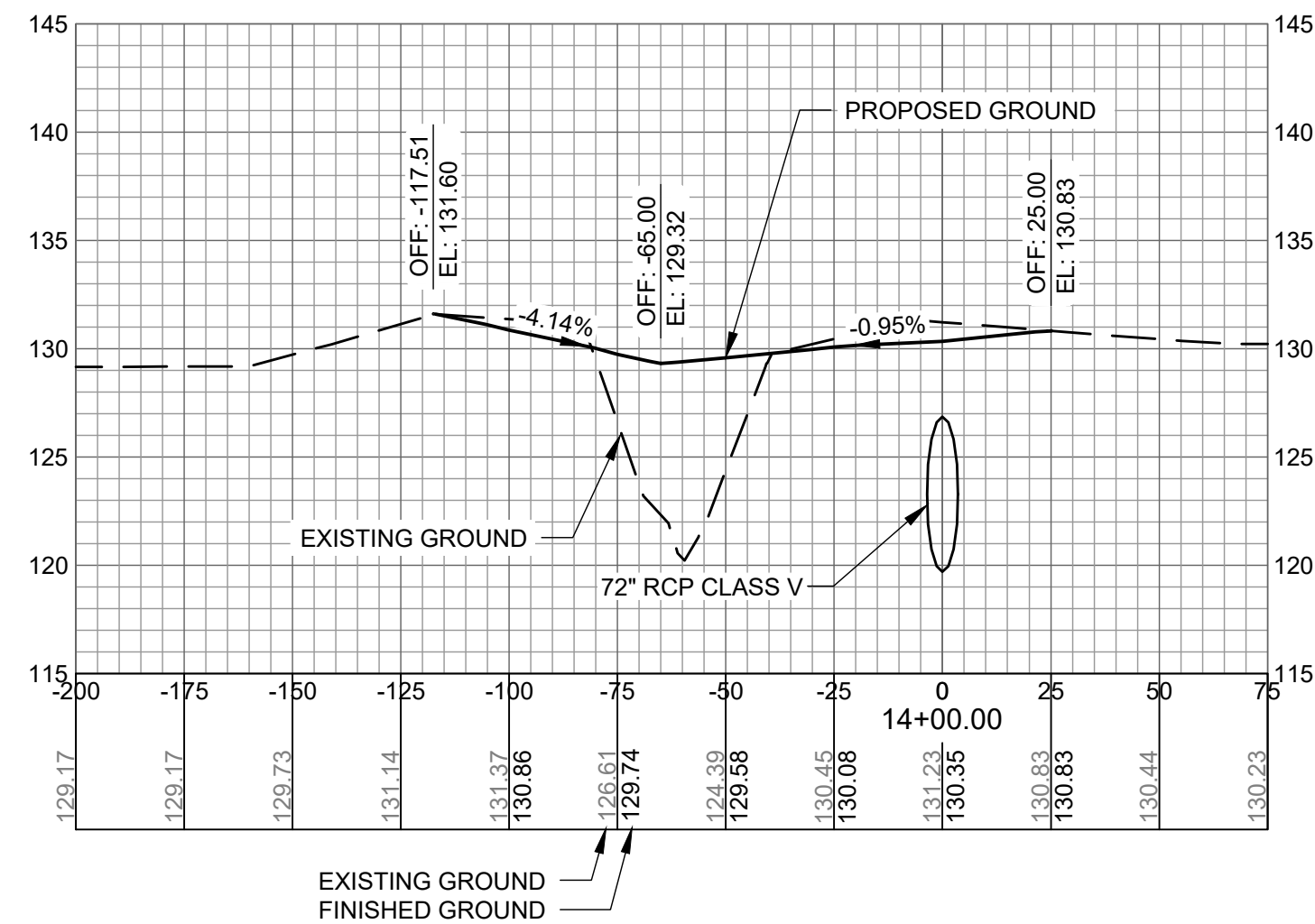
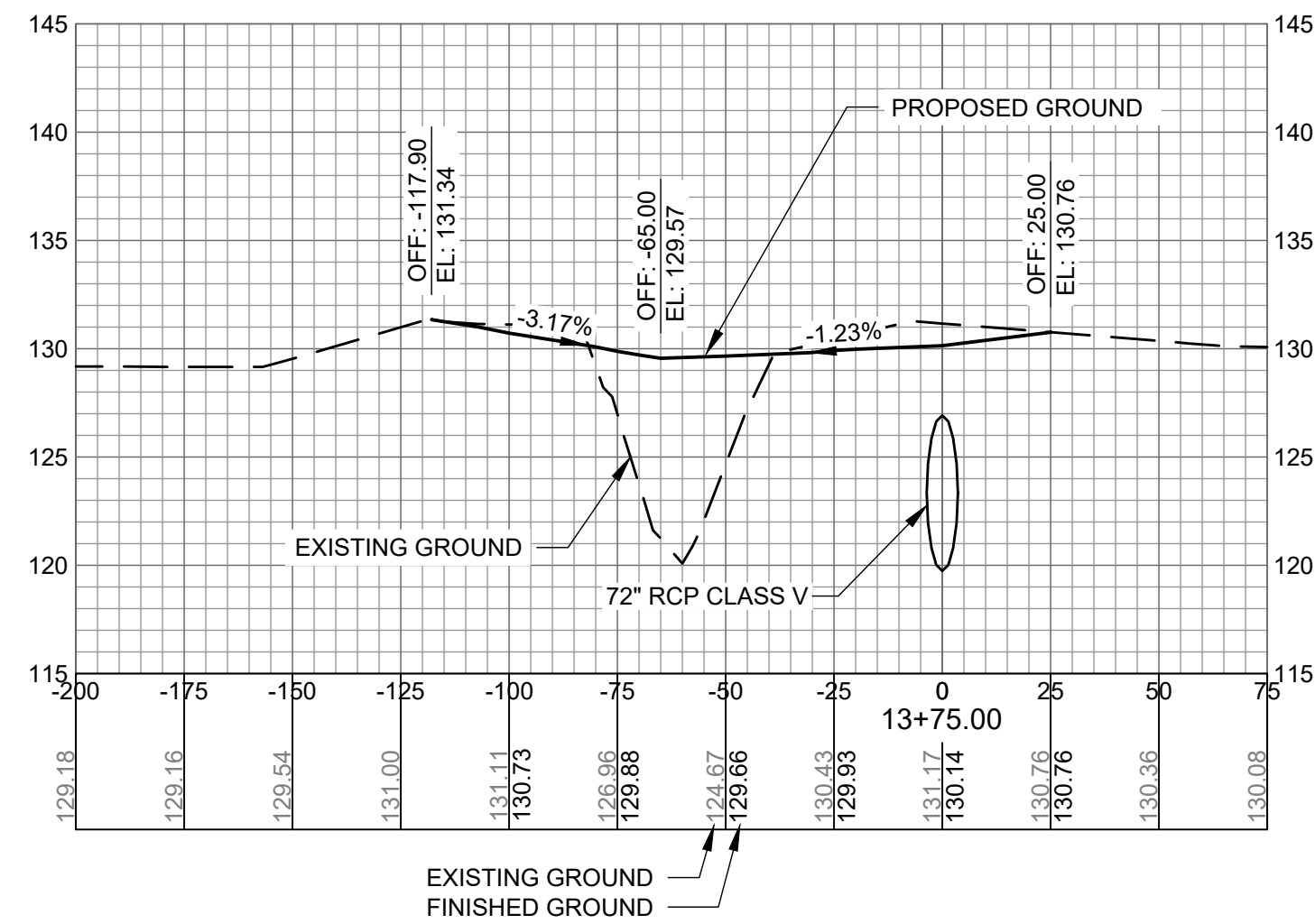
NOT FOR CONSTRUCTION

AGS:
M&H NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: NJH
DRAWN BY: NJH
CHECKED BY: EJS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
CROSS SECTIONS
12+75 TO 14+00

SHEET NO.

C-903



AUGUSTA REGIONAL AIRPORT SOUTHEAST DRAINAGE DITCH ENCLOSURE PH II 1501 AVIATION WAY AUGUSTA GA, 30906

ISSUED
ISSUED FOR BID

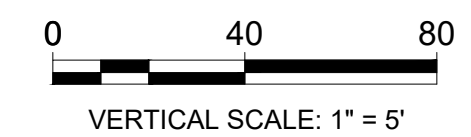
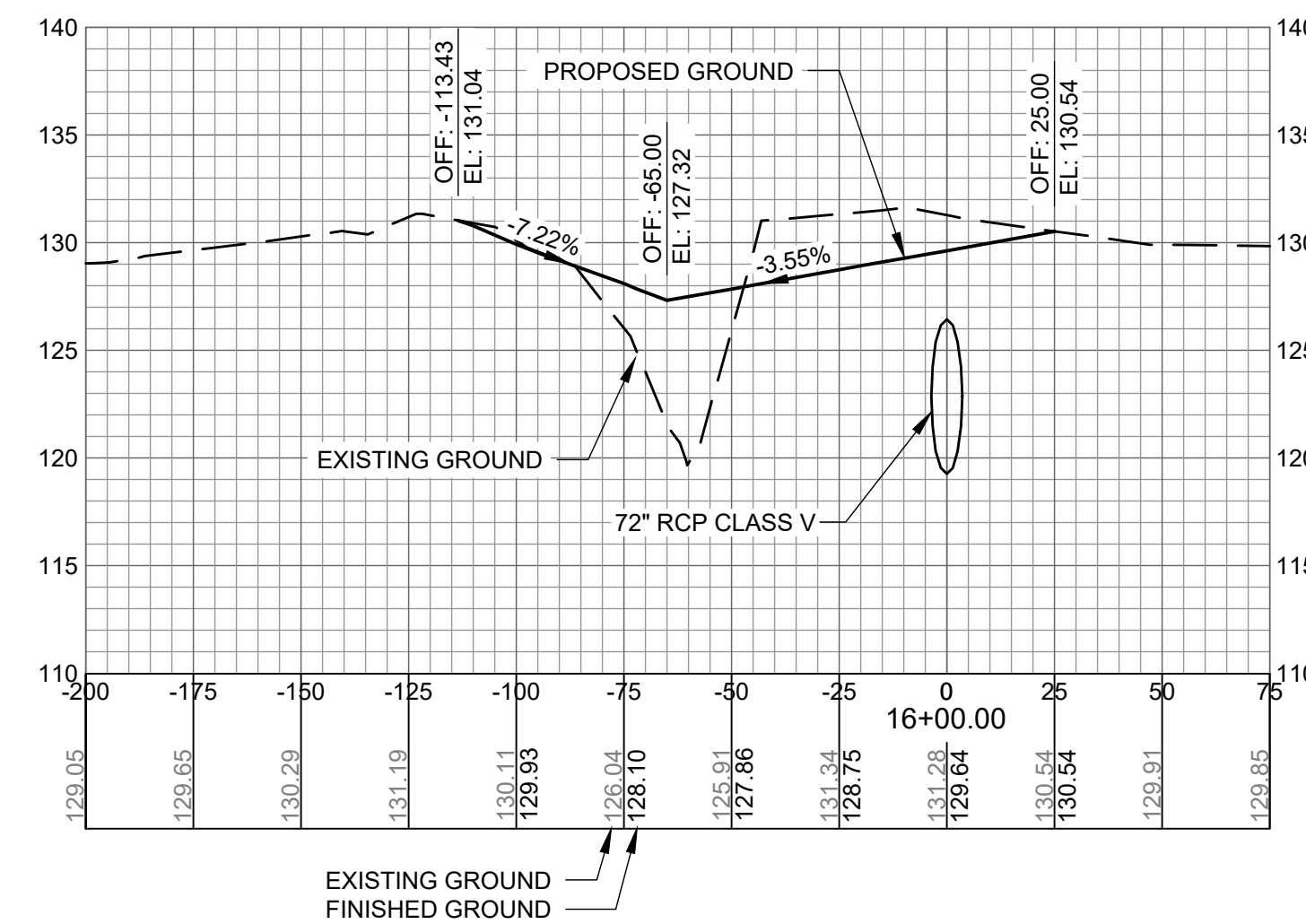
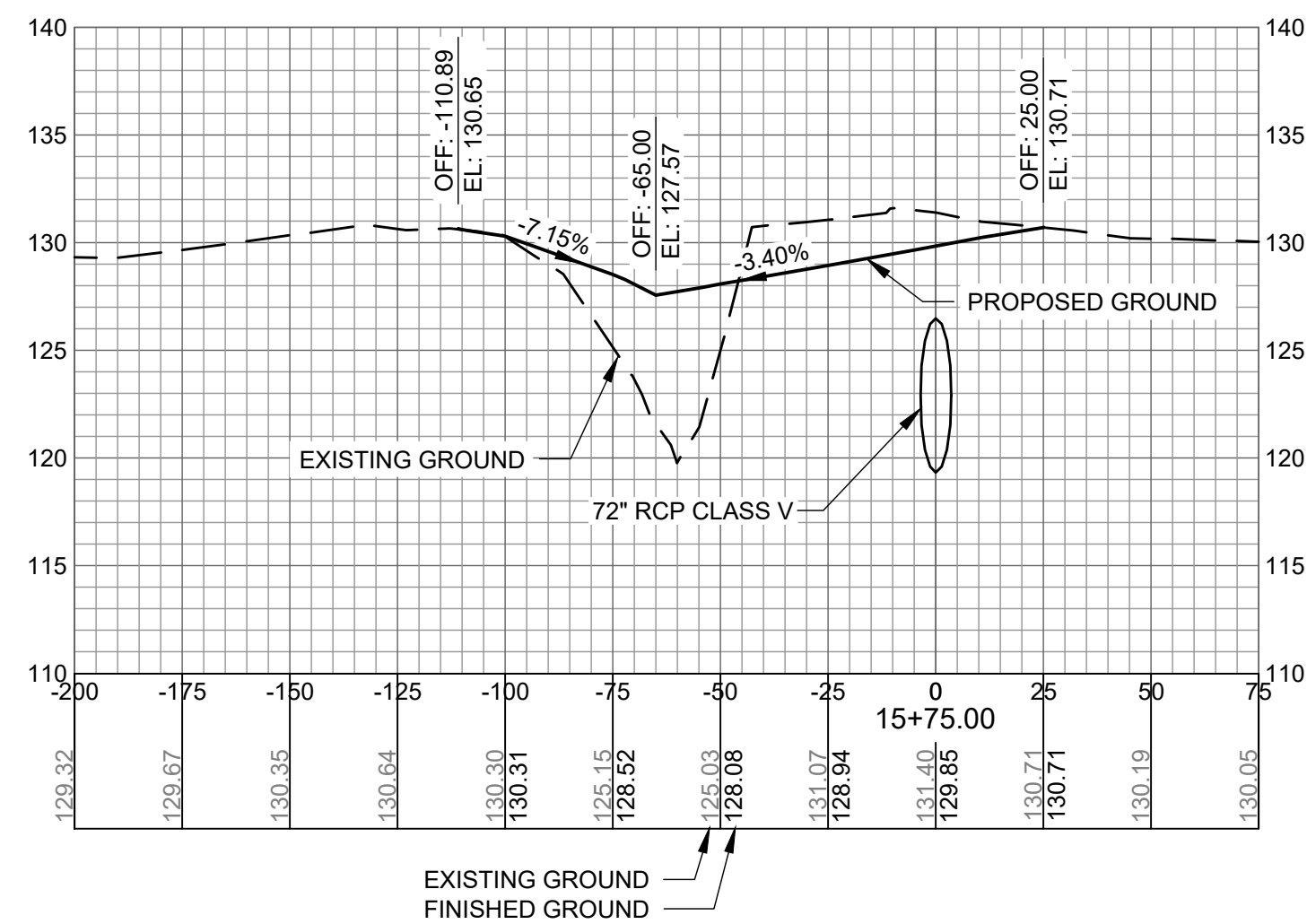
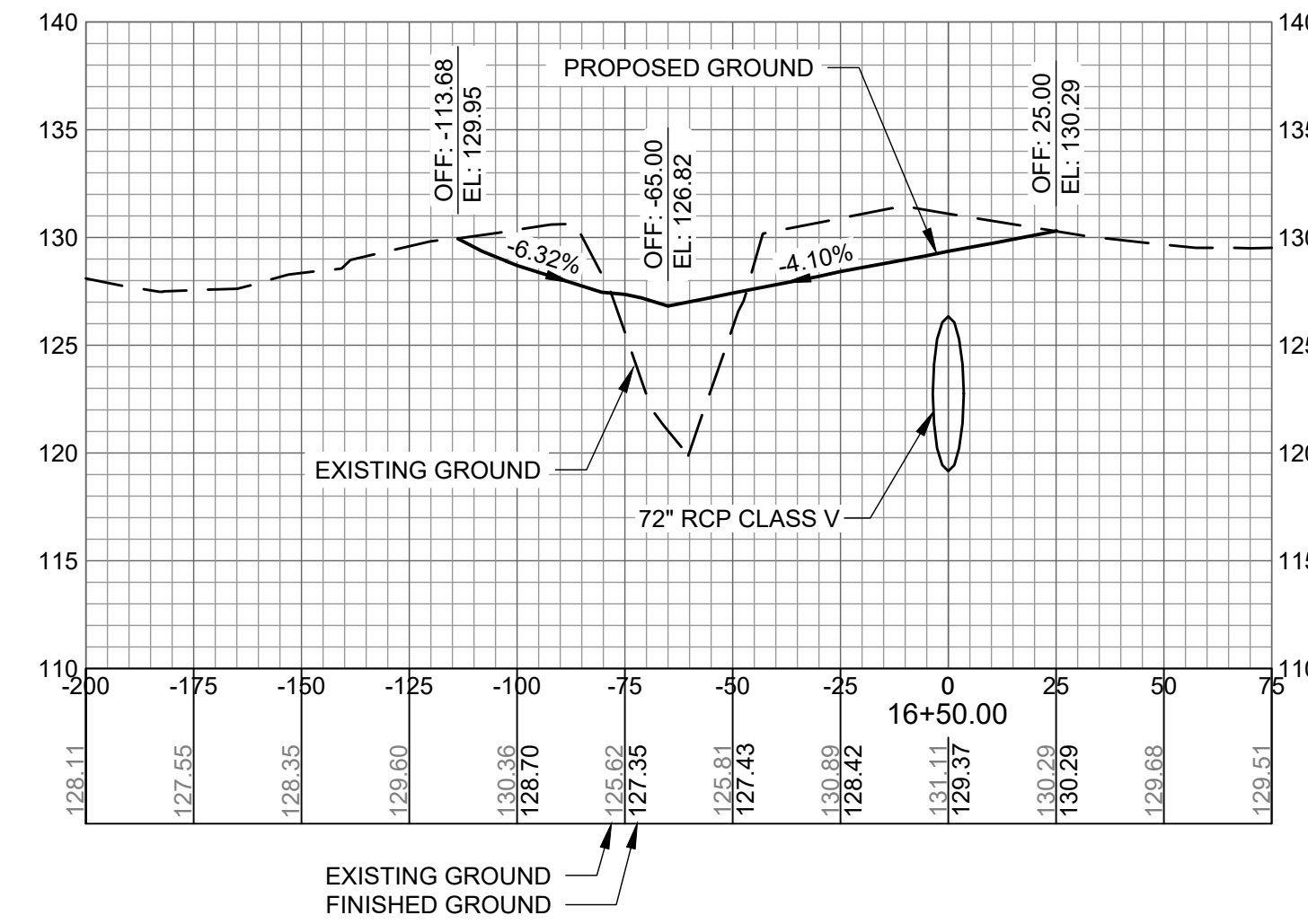
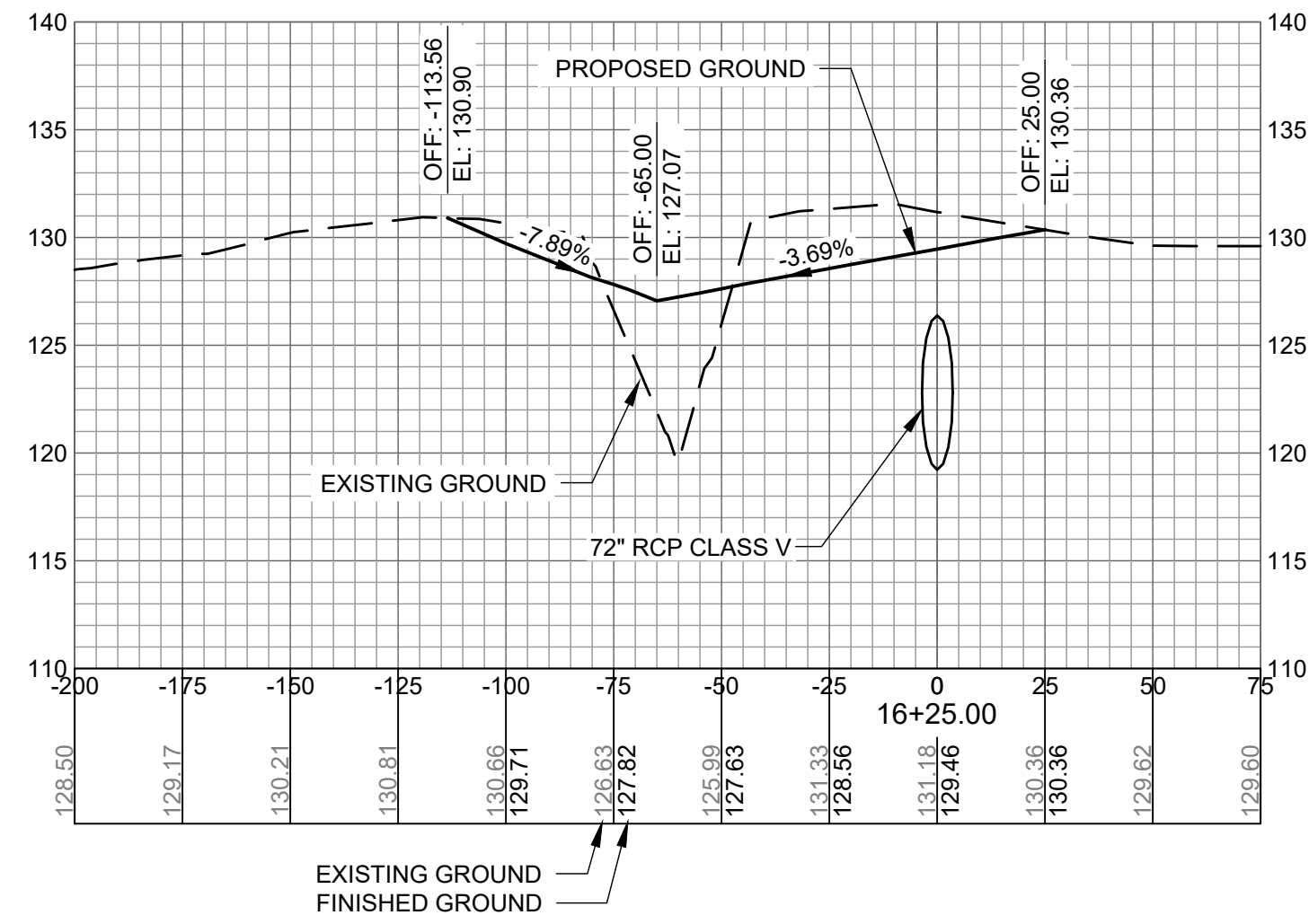
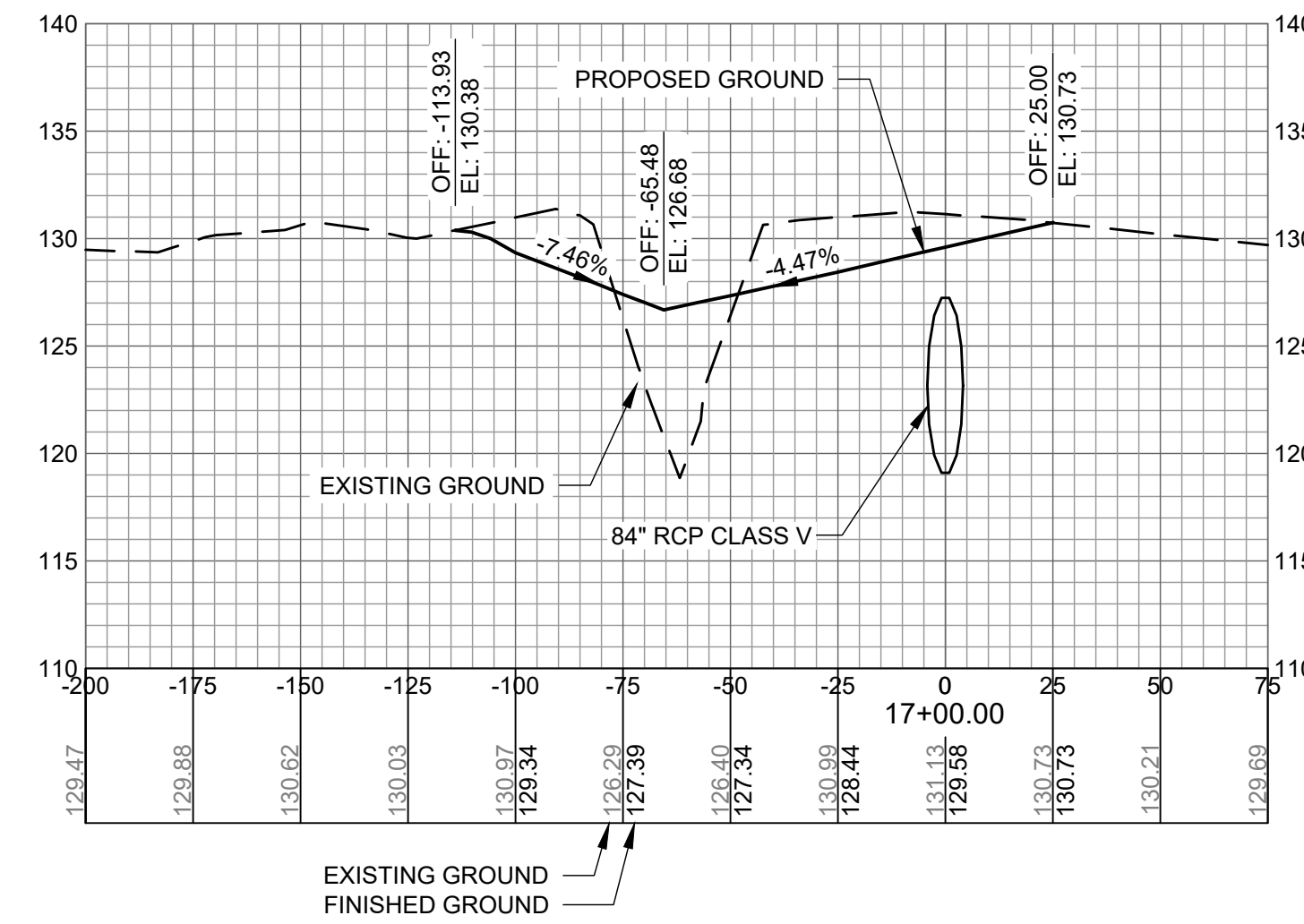
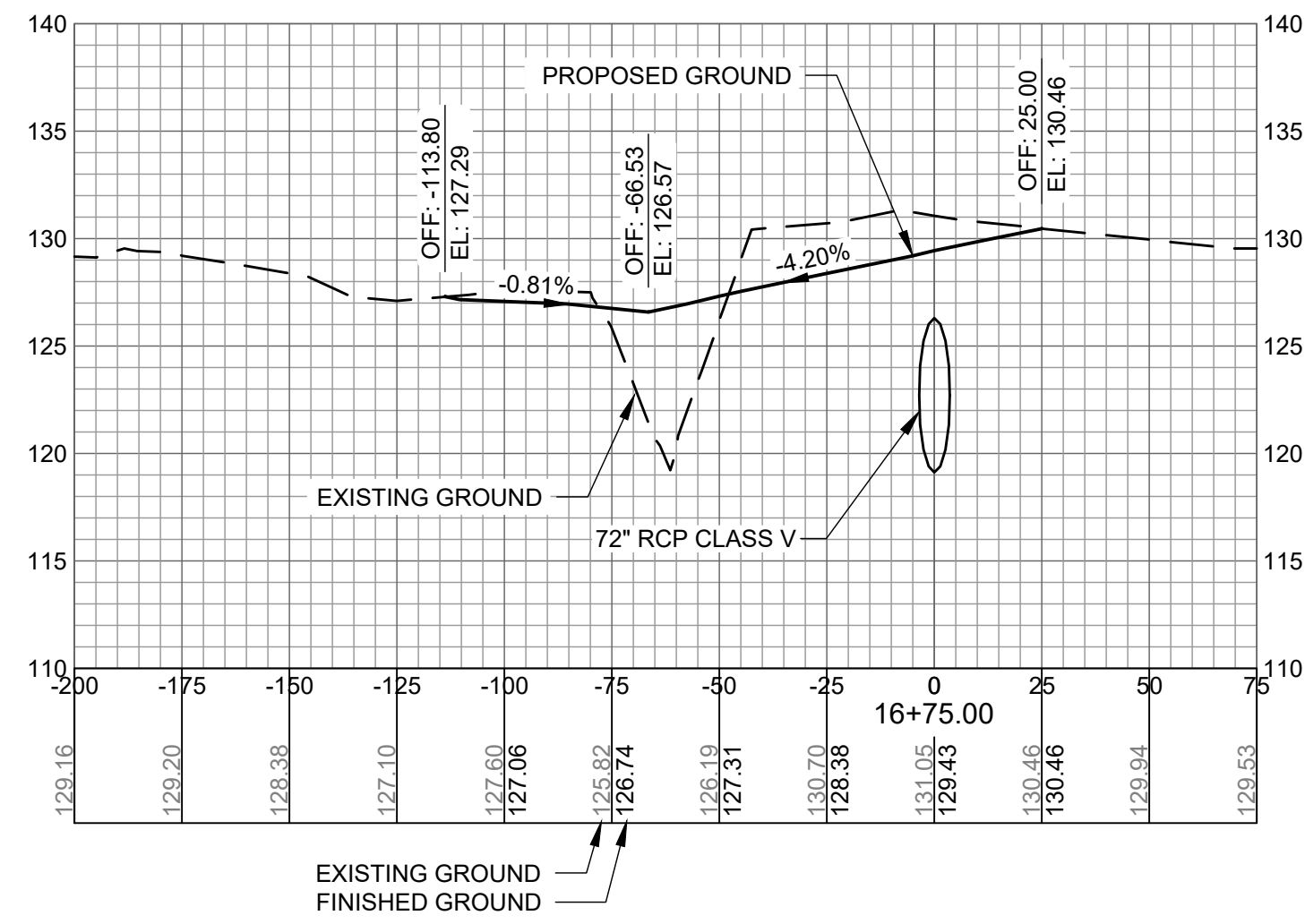
NOT FOR CONSTRUCTION

AGS:
M&H NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: NJH
DRAWN BY: NJH
CHECKED BY: EJS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
CROSS SECTIONS
15+75 TO 17+00

SHEET NO.

C-905



AUGUSTA REGIONAL AIRPORT SOUTHEAST DRAINAGE DITCH ENCLOSURE PH II 1501 AVIATION WAY AUGUSTA GA, 30906

ISSUED
ISSUED FOR BID

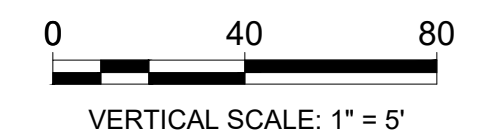
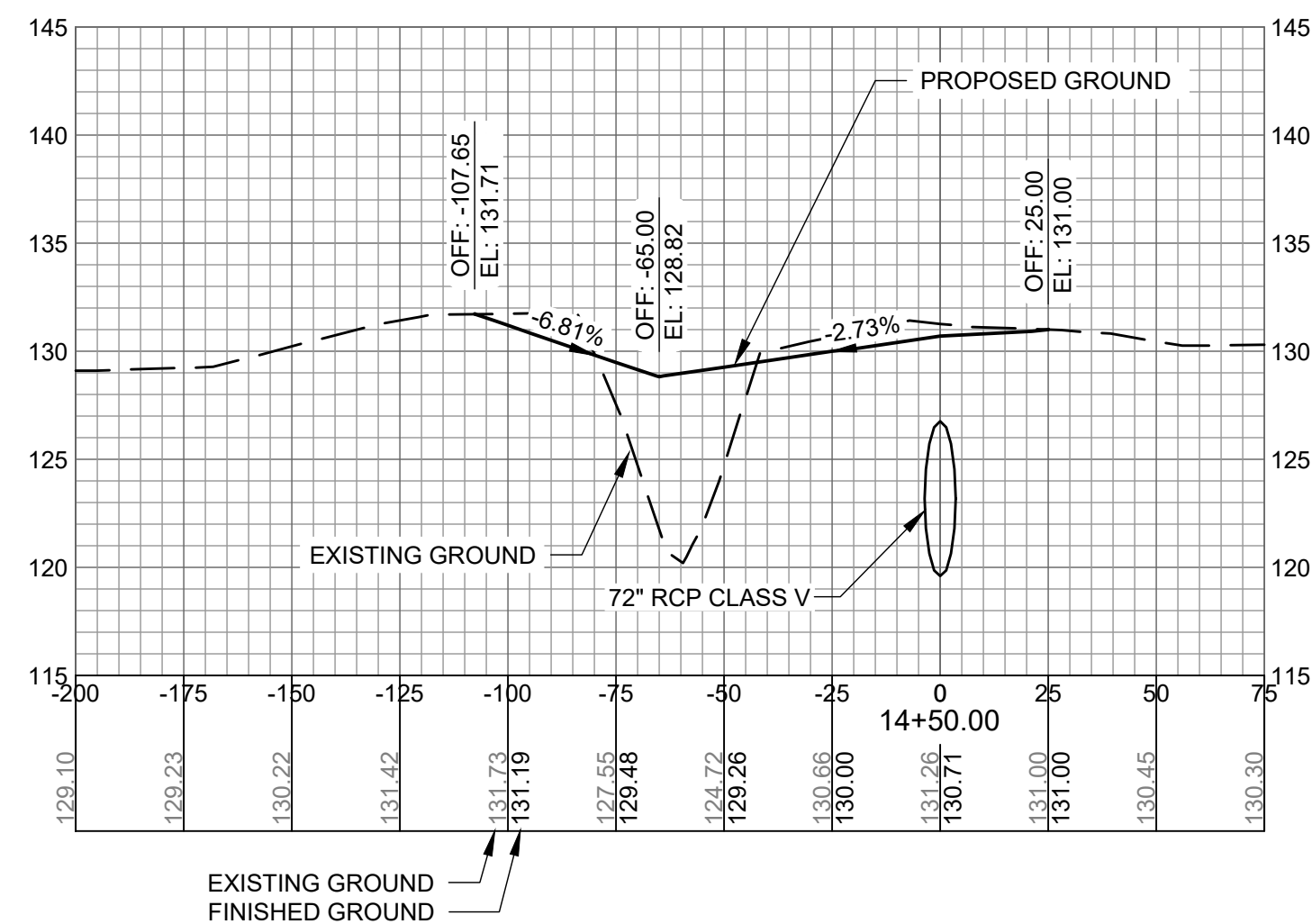
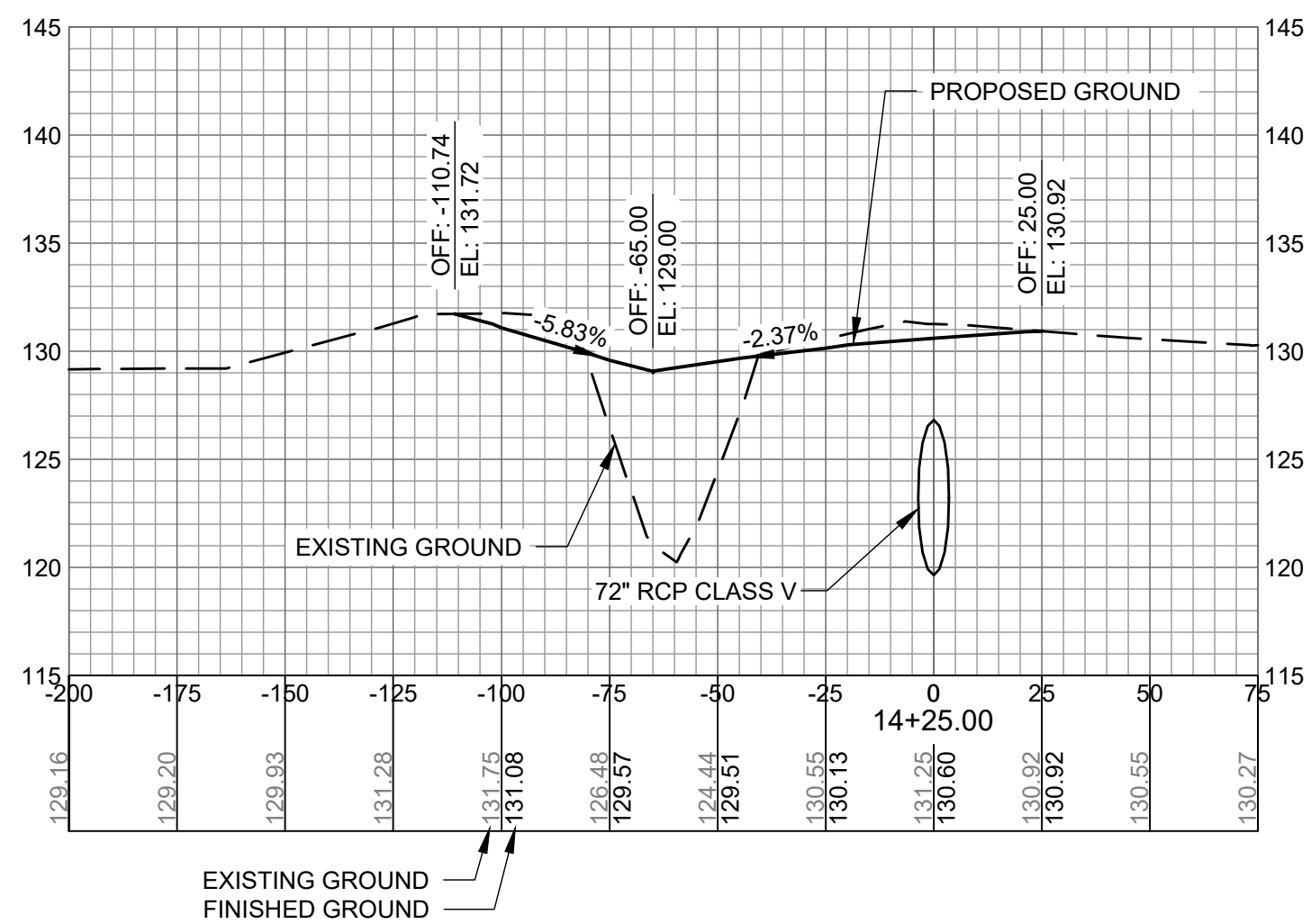
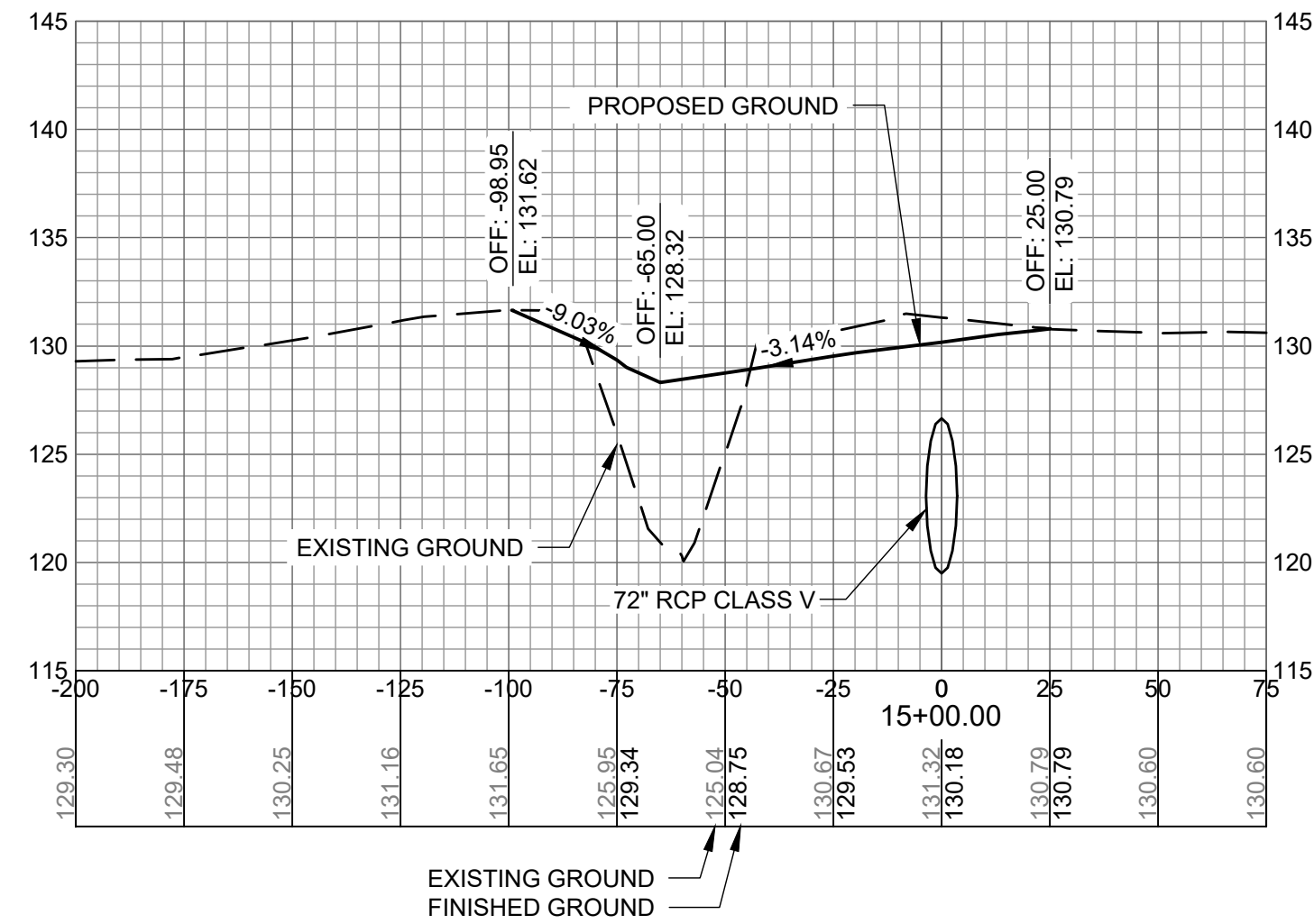
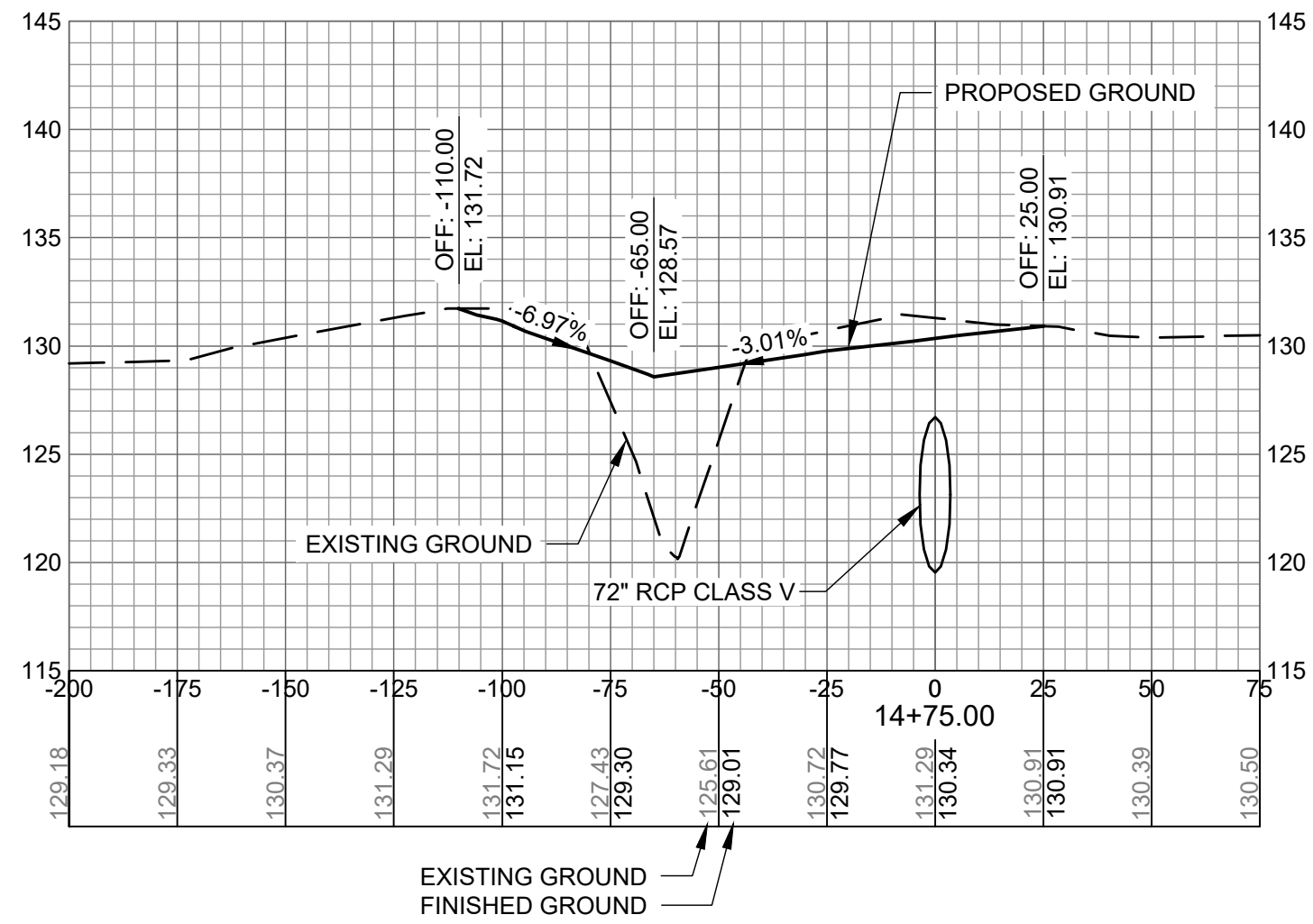
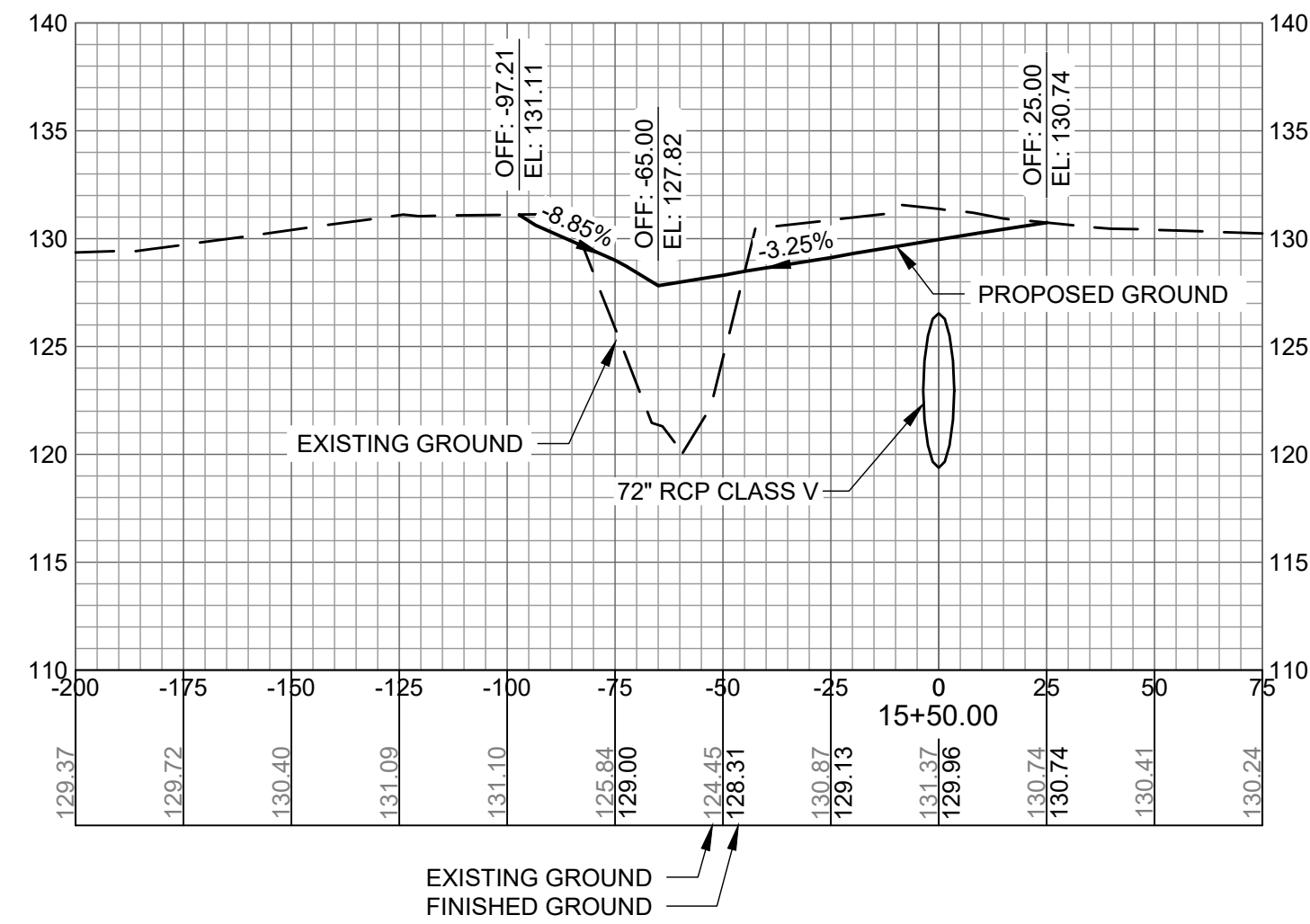
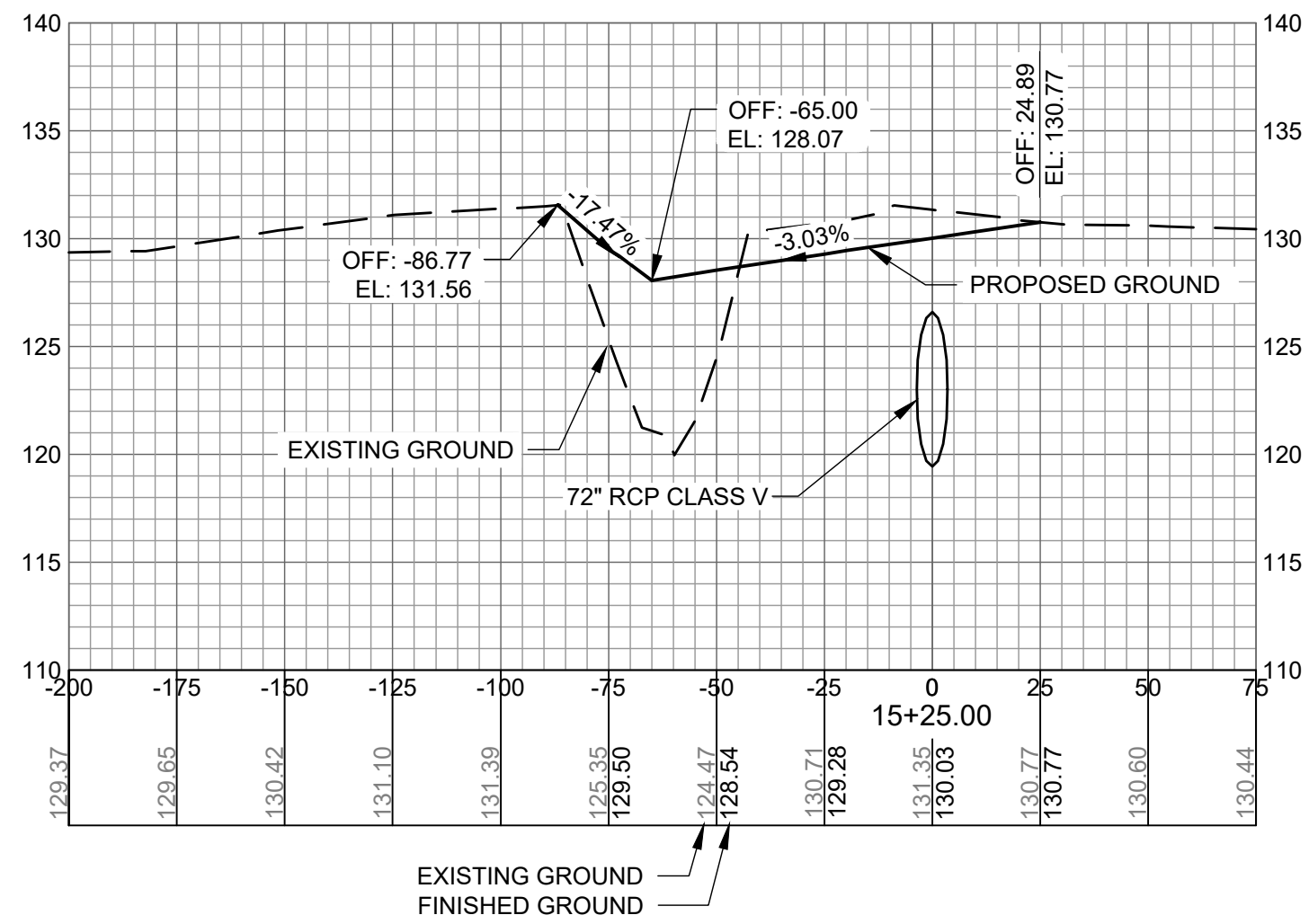
NOT FOR CONSTRUCTION

AGS:
M&H NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: NJH
DRAWN BY: NJH
CHECKED BY: EJS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
CROSS SECTIONS
14+25 TO 15+50

SHEET NO.

C-904



**AUGUSTA REGIONAL AIRPORT
SOUTHEAST DRAINAGE DITCH
ENCLOSURE PH II
1501 AVIATION WAY
AUGUSTA GA, 30906**

ISSUED
ISSUED FOR BID

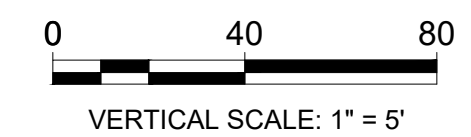
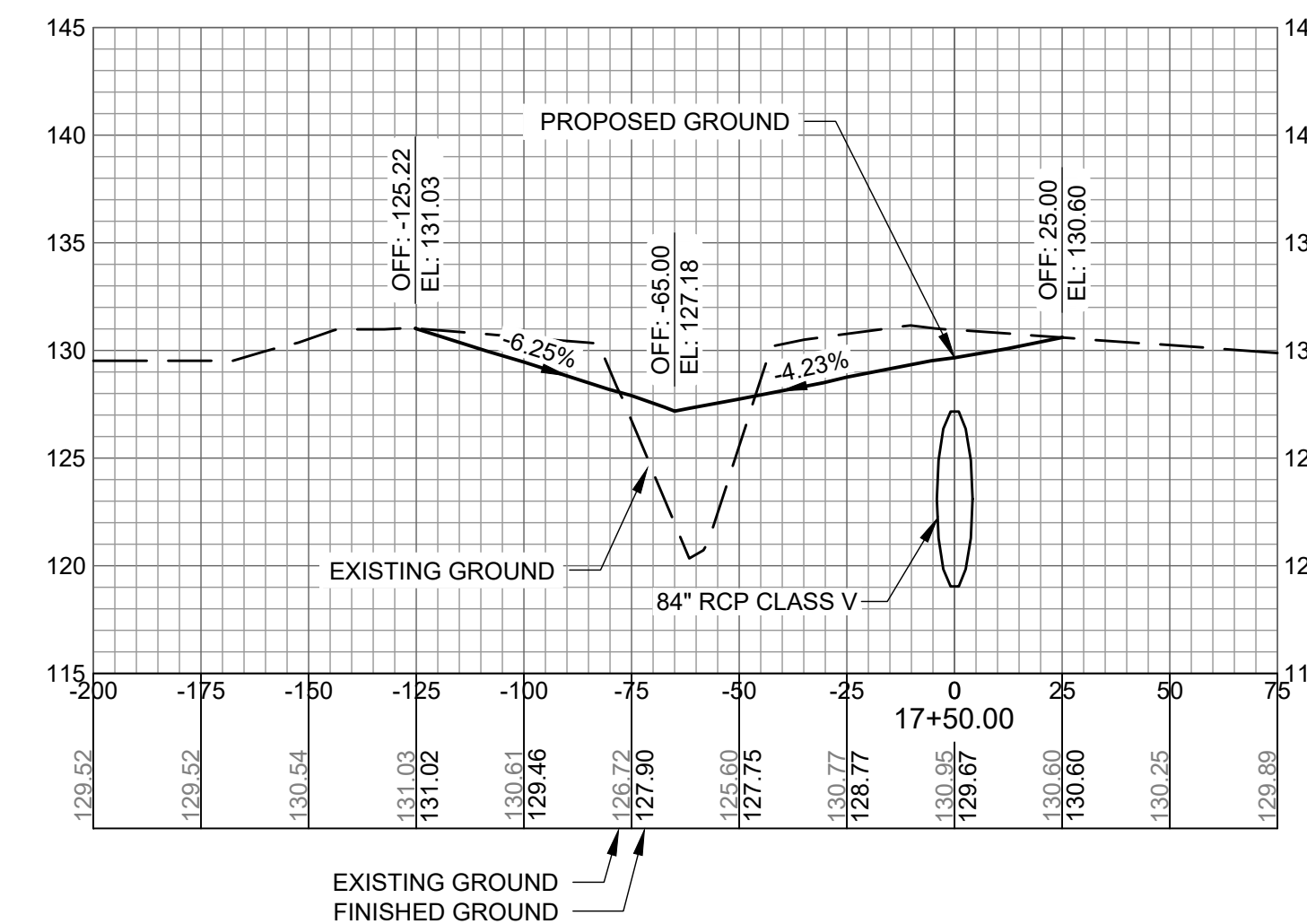
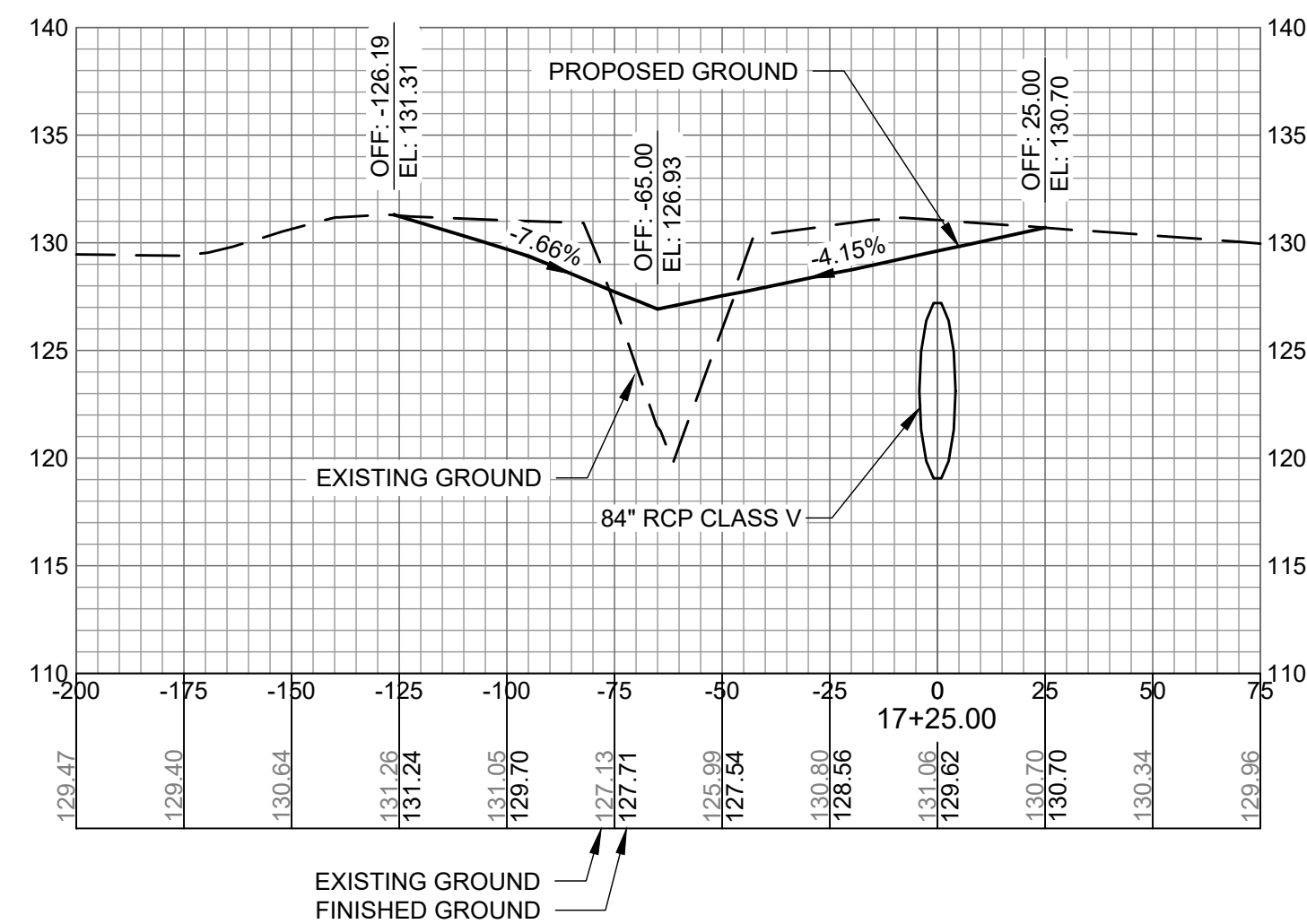
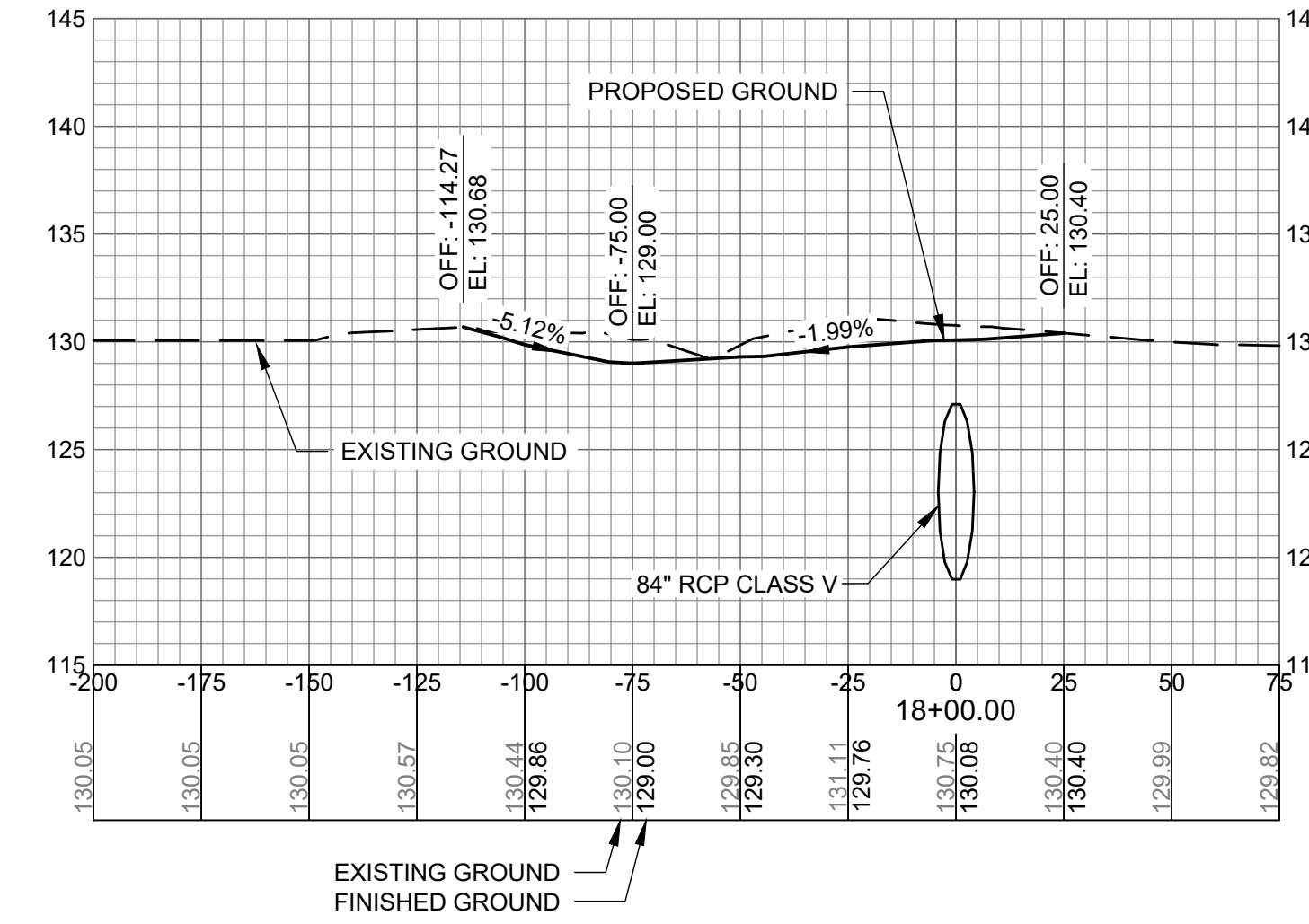
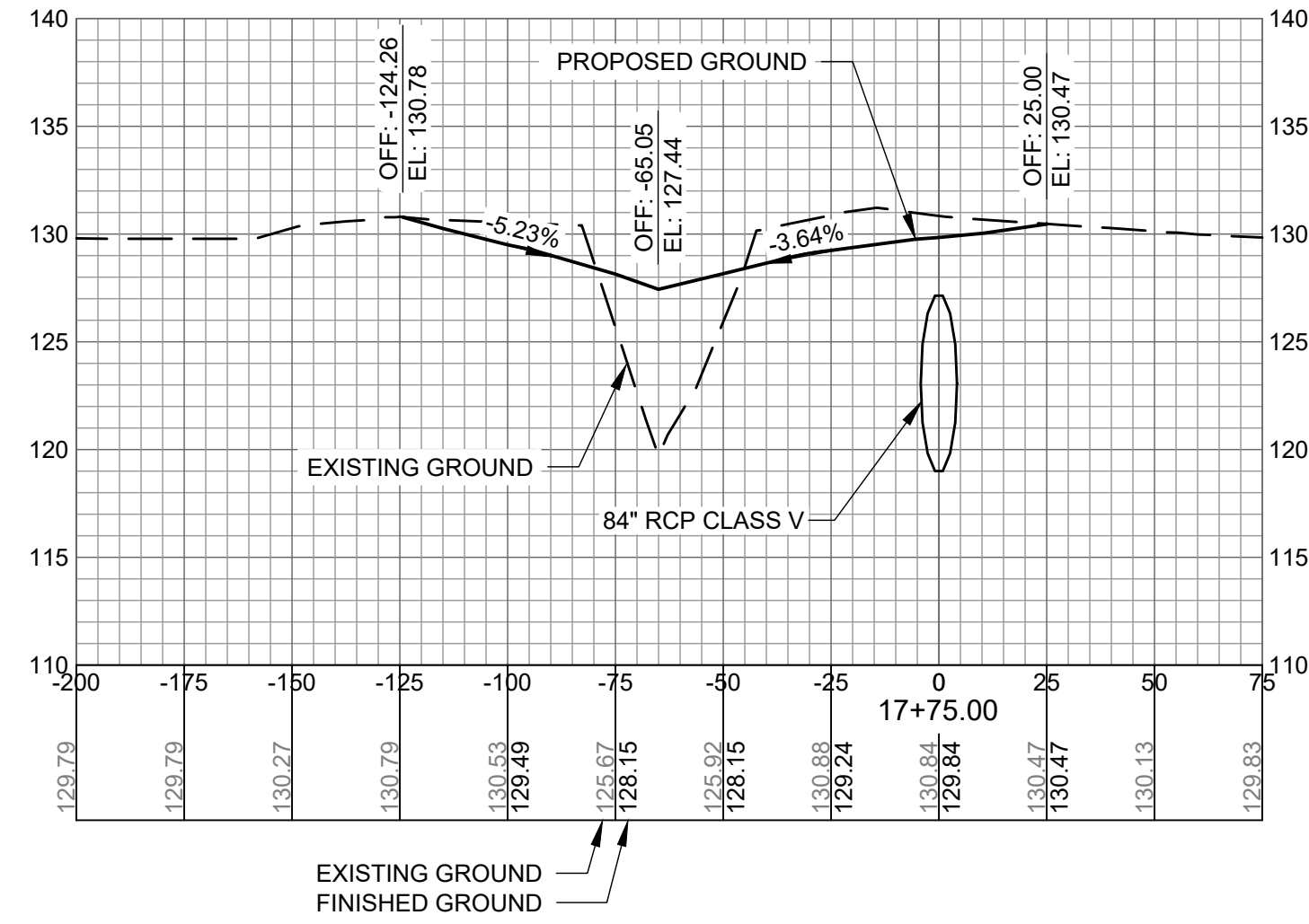
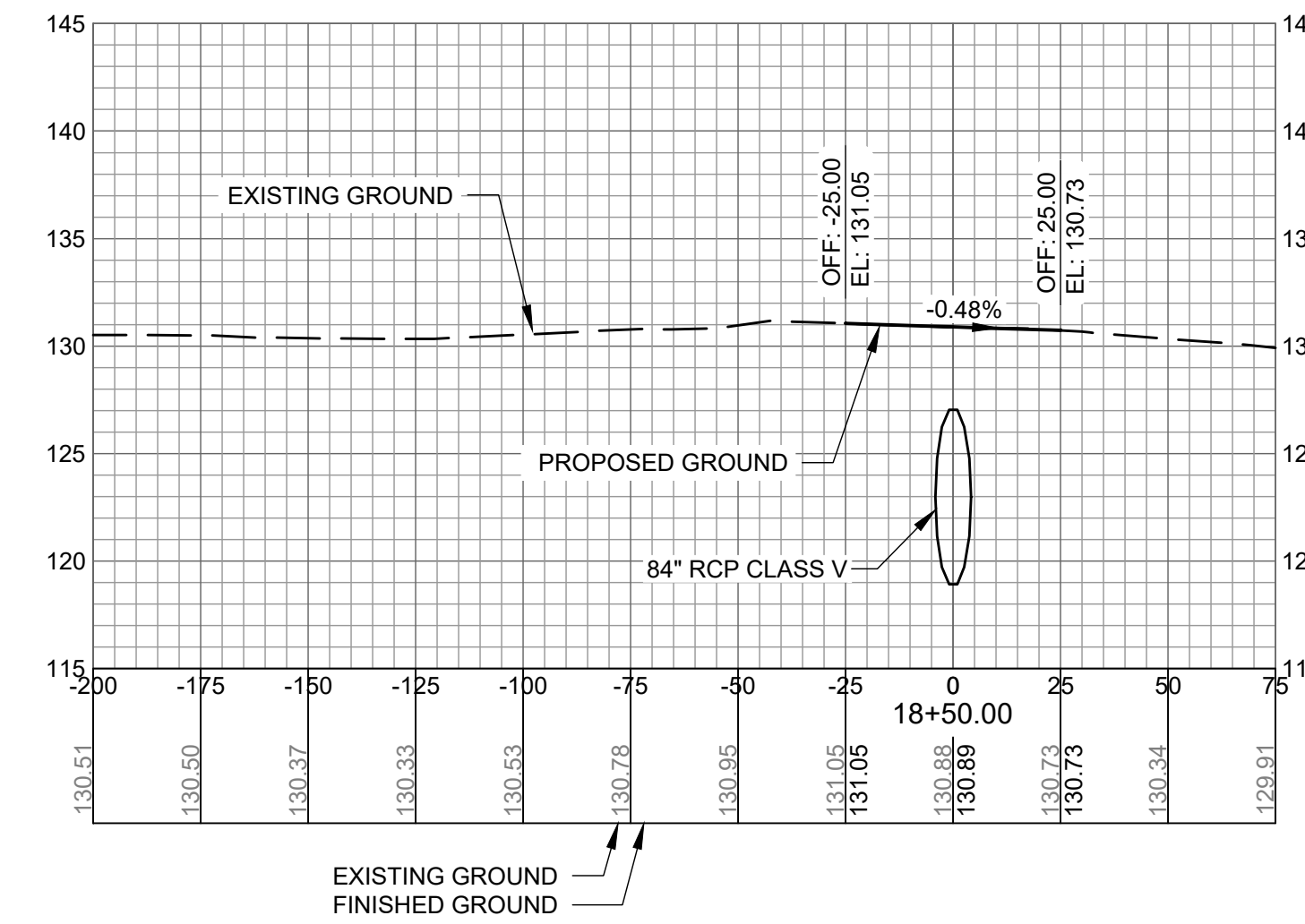
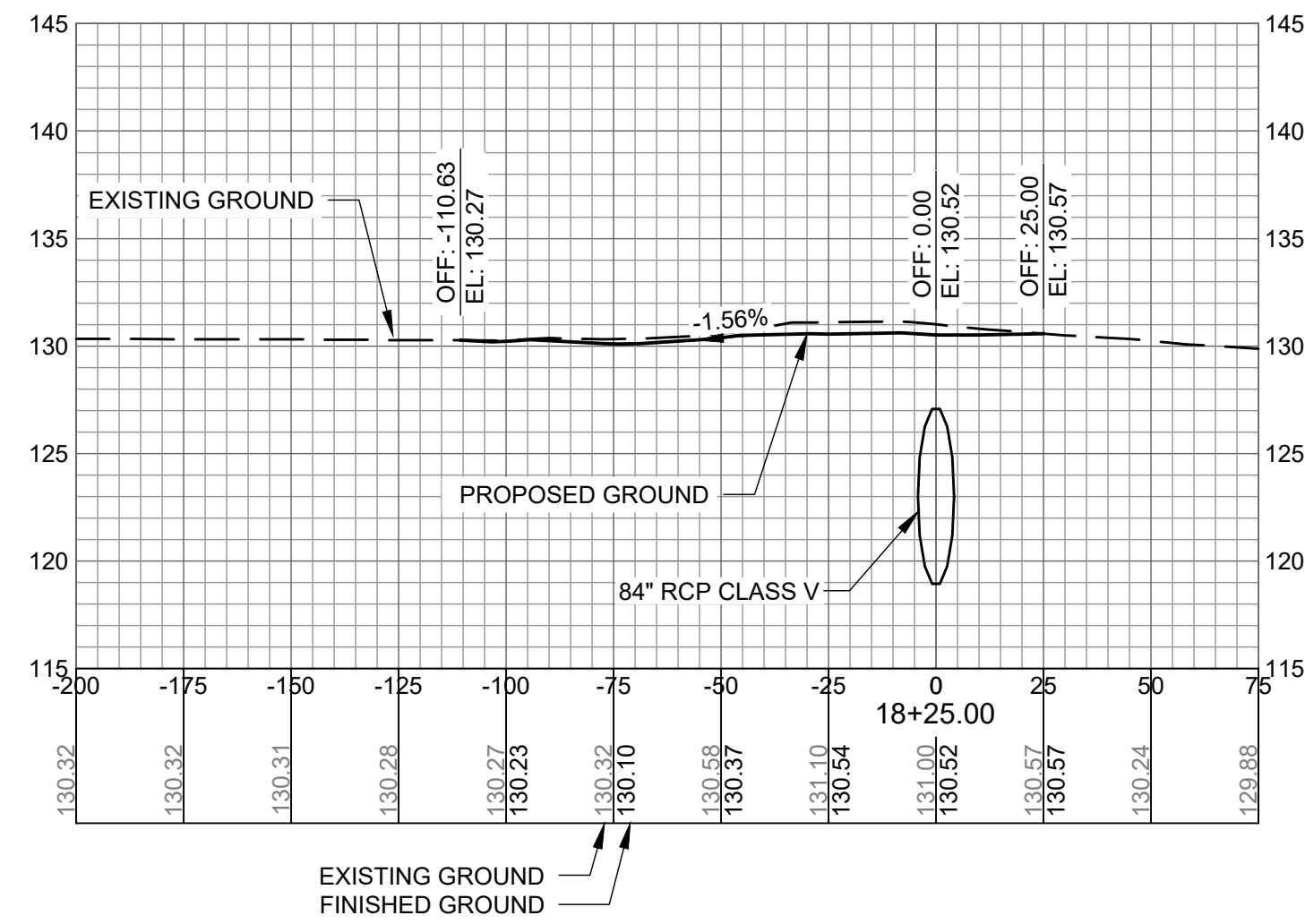
NOT FOR CONSTRUCTION

AGS:
M&H NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: NJH
DRAWN BY: NJH
CHECKED BY: EJS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
CROSS SECTIONS
17+25 TO 18+50

SHEET NO.

C-906



AUGUSTA REGIONAL AIRPORT SOUTHEAST DRAINAGE DITCH ENCLOSURE PH II 1501 AVIATION WAY AUGUSTA GA, 30906

ISSUED
ISSUED FOR BID

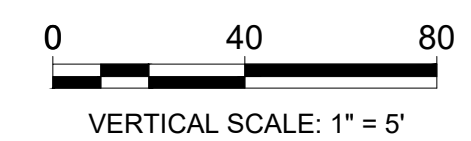
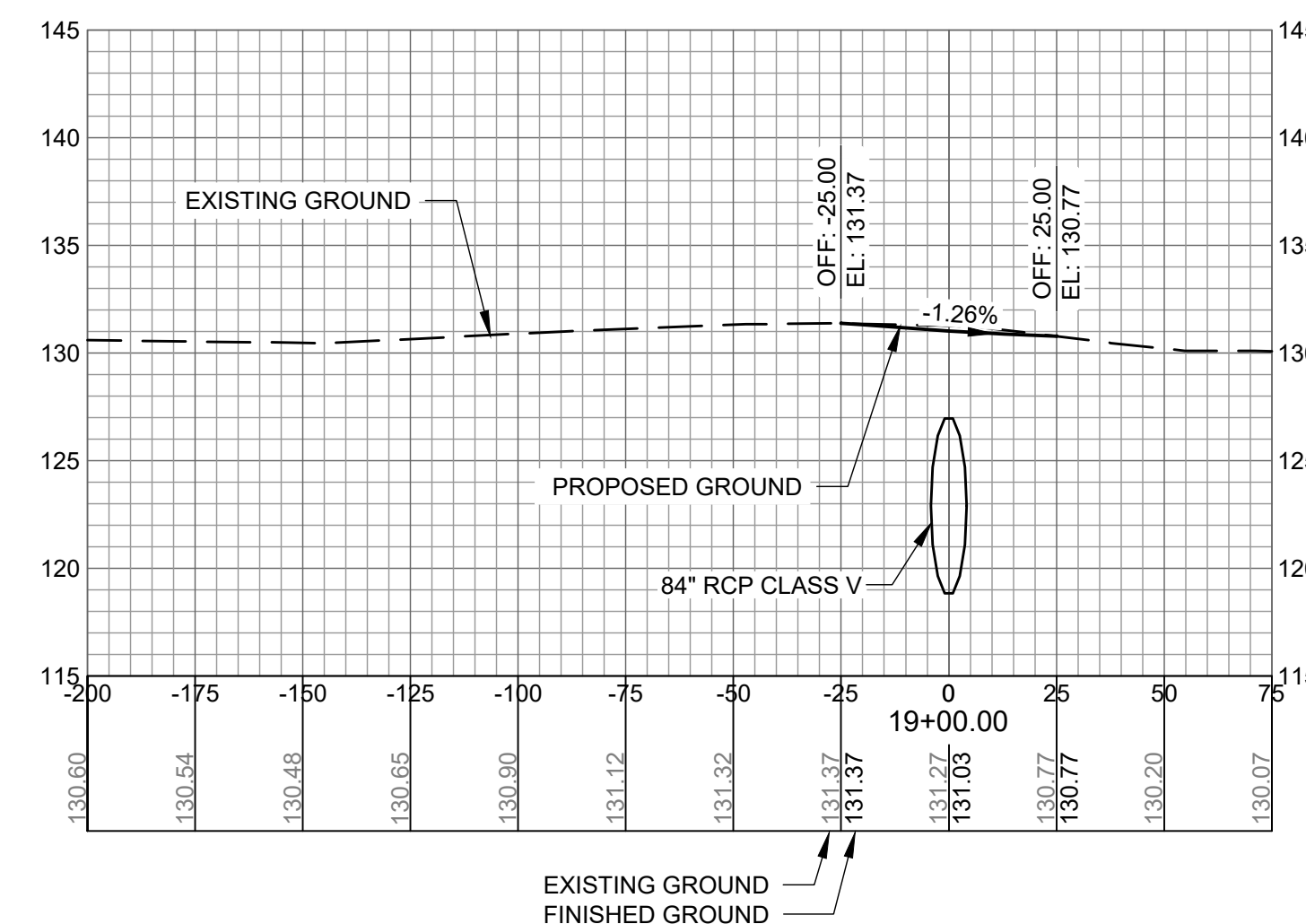
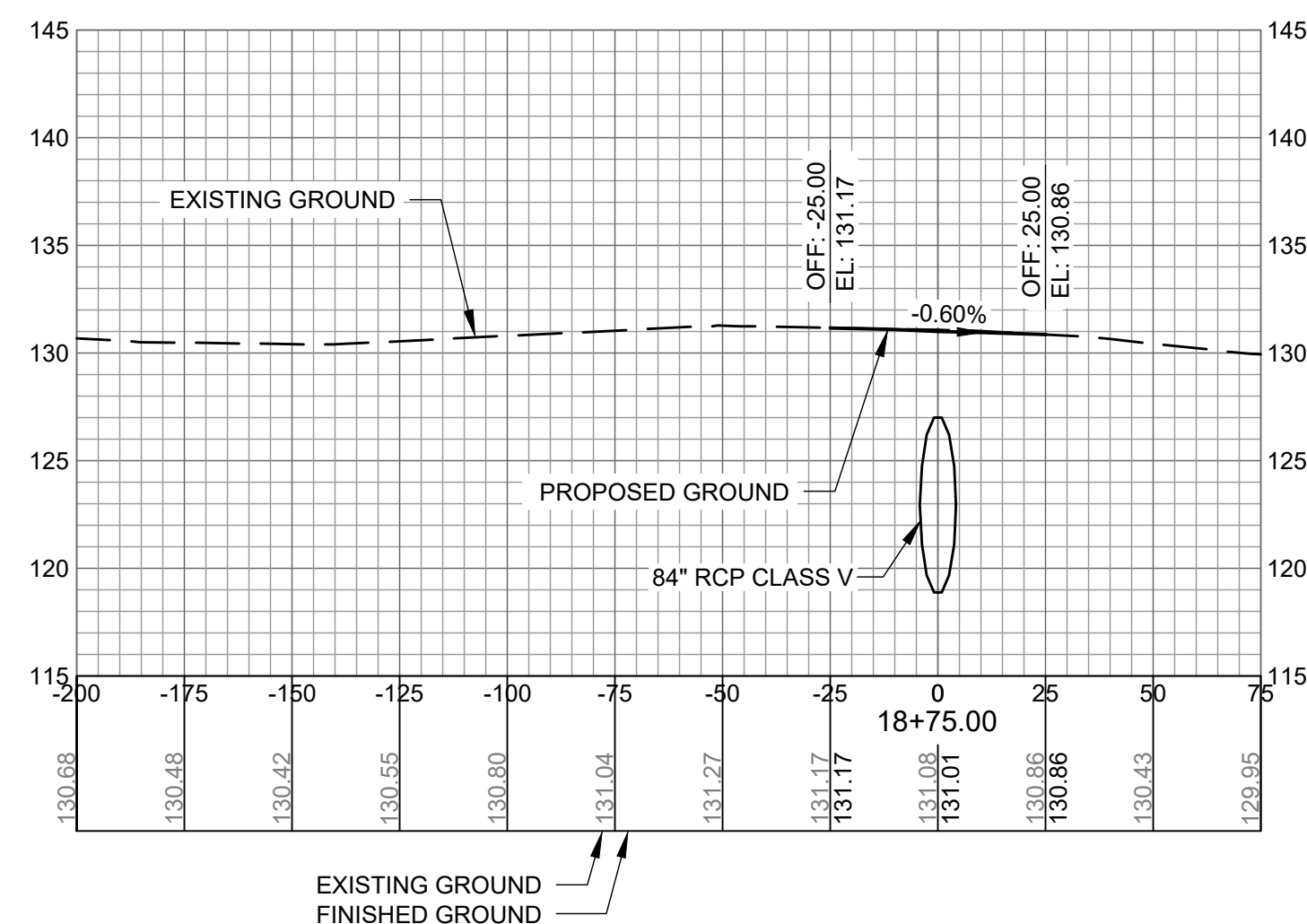
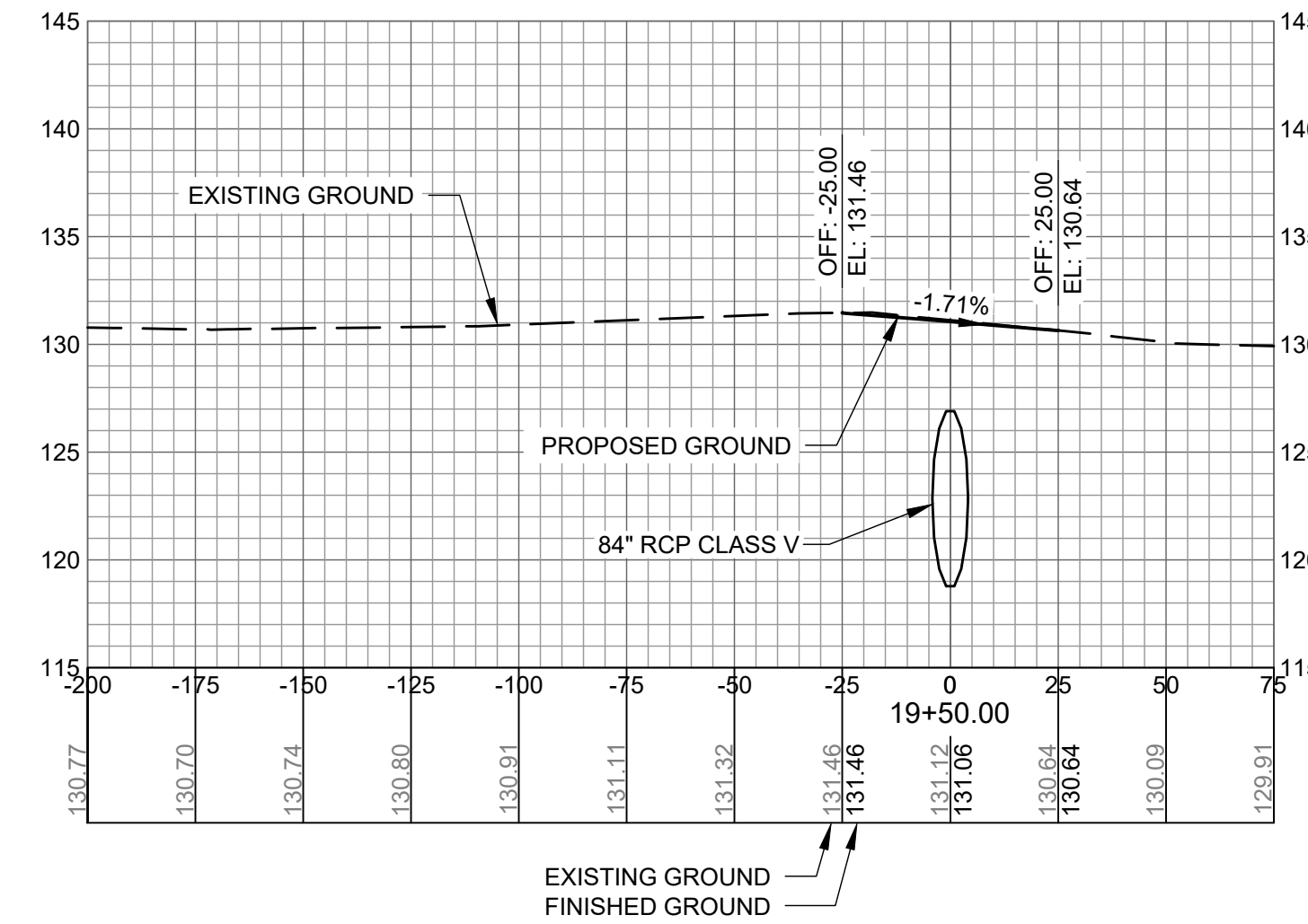
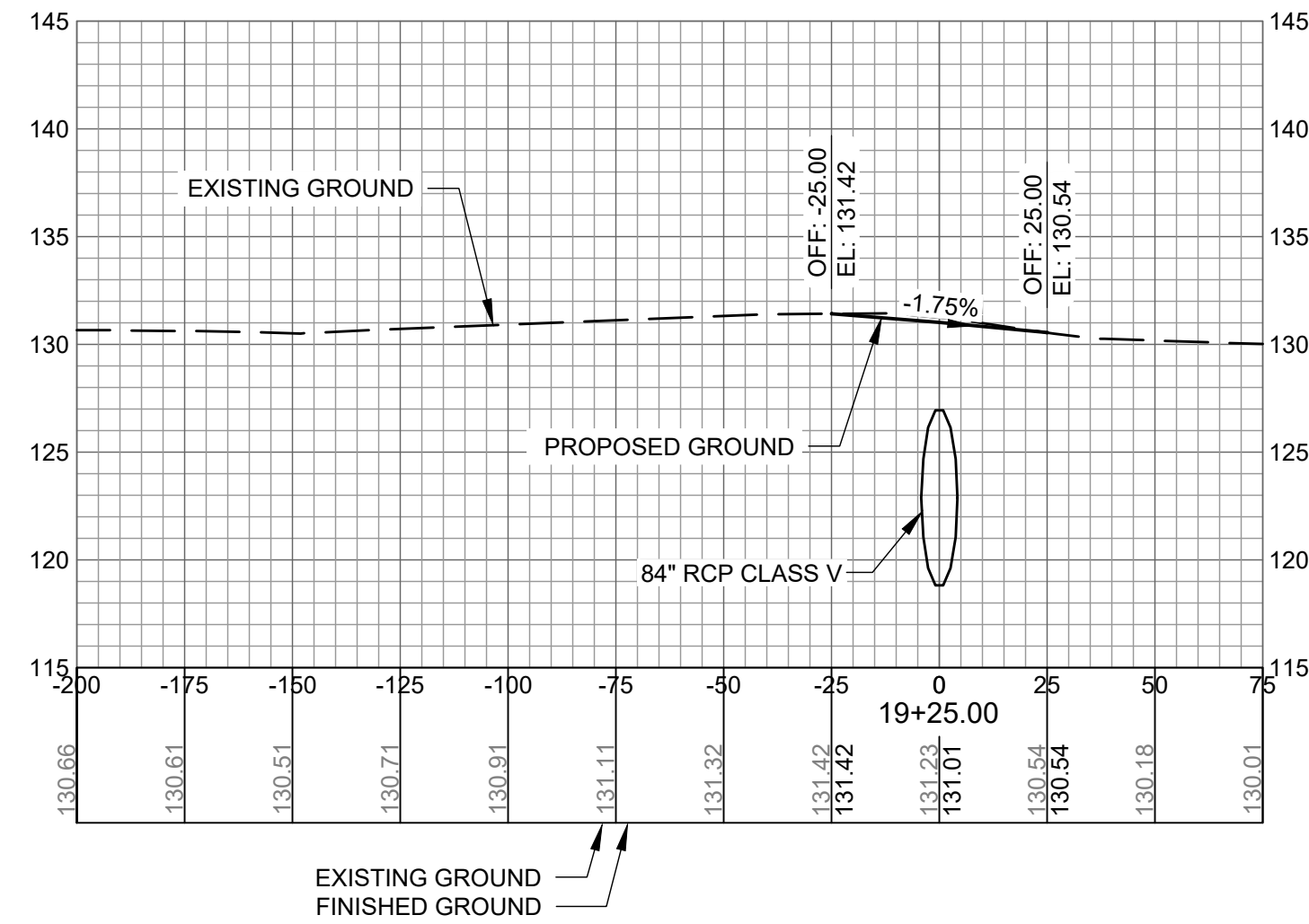
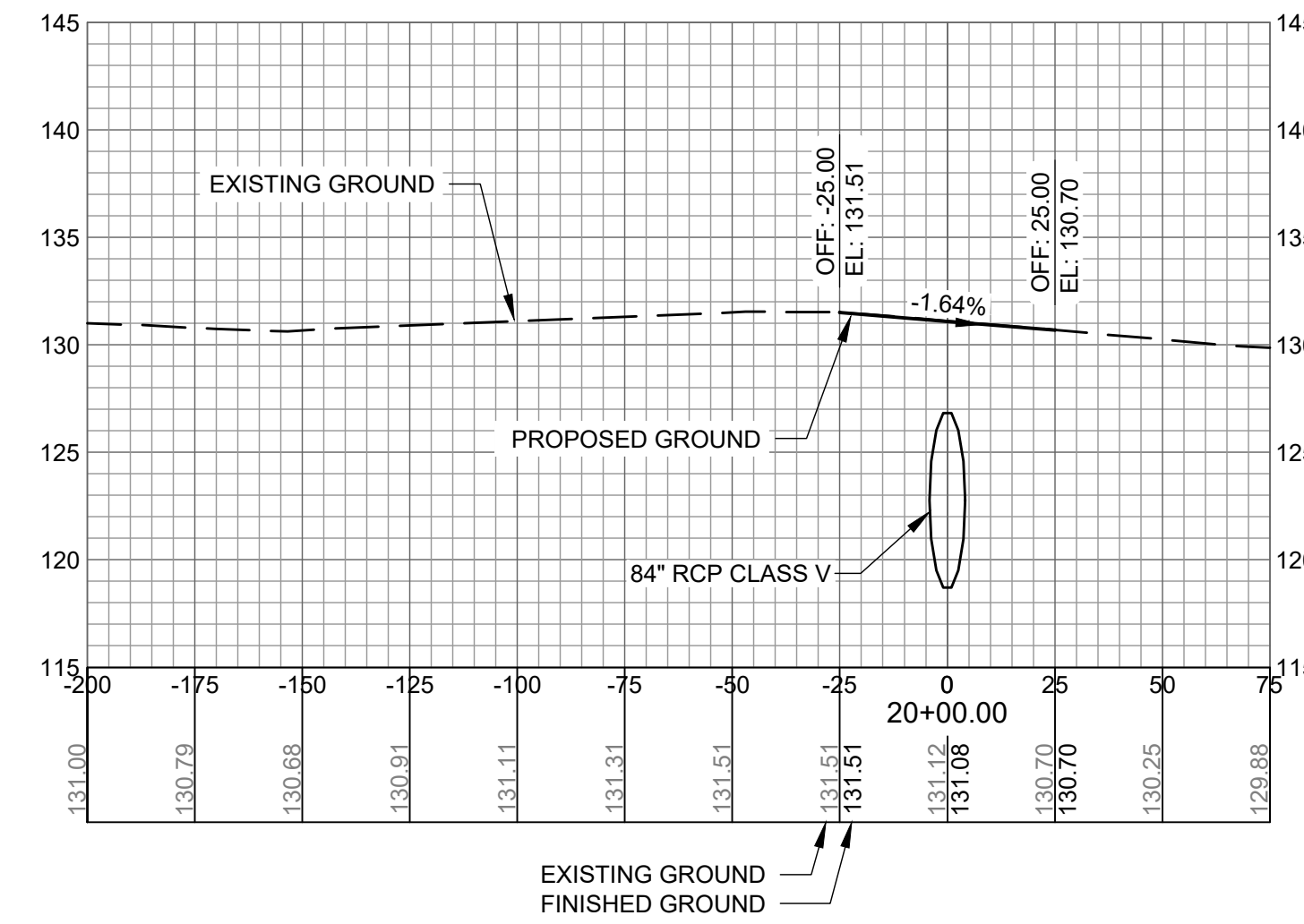
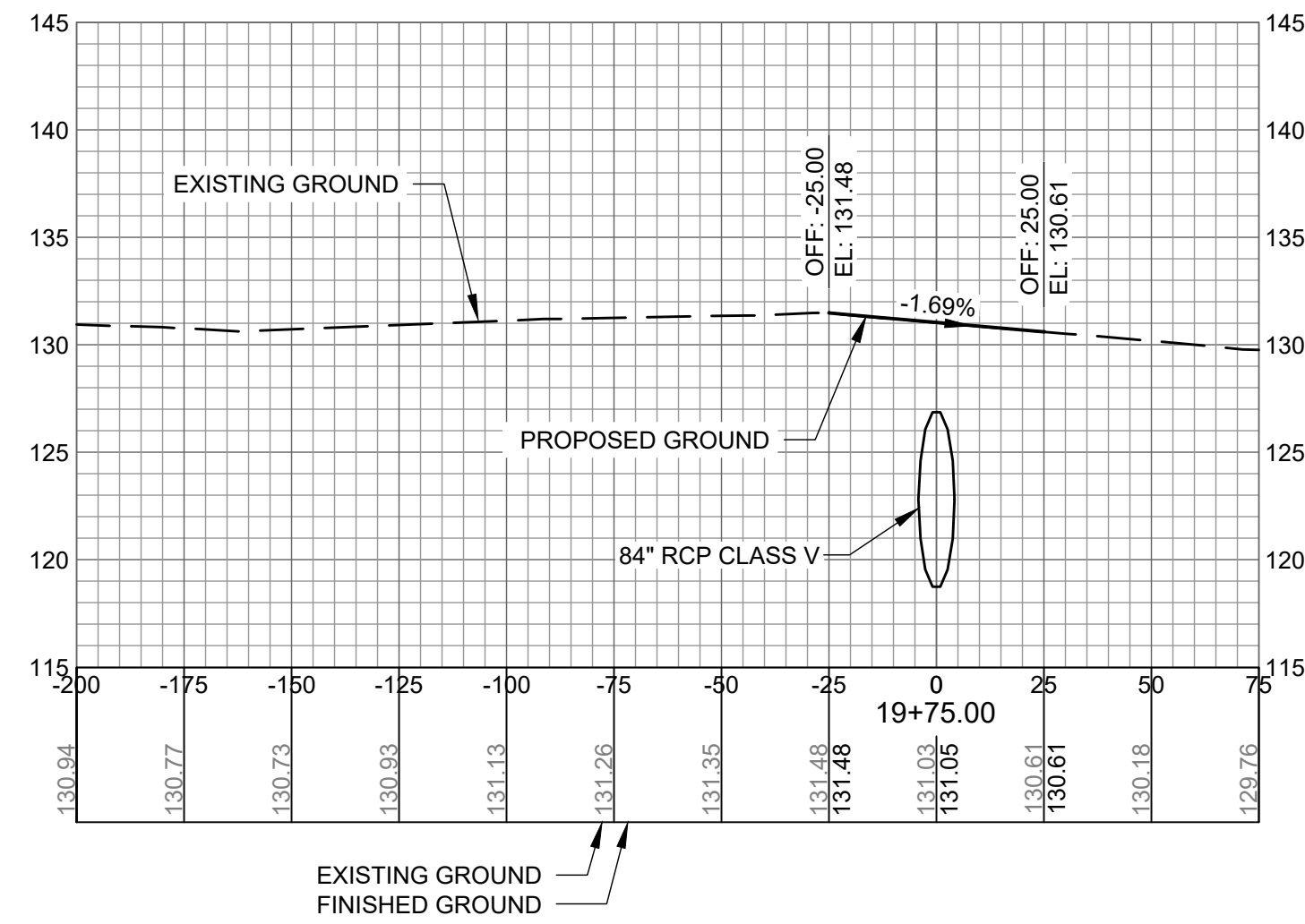
NOT FOR CONSTRUCTION

AG: M&H NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: NJH
DRAWN BY: NJH
CHECKED BY: EJS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
CROSS SECTIONS
18+75 TO 20+00

SHEET NO.

C-907



AUGUSTA REGIONAL AIRPORT SOUTHEAST DRAINAGE DITCH ENCLOSURE PH II 1501 AVIATION WAY AUGUSTA GA, 30906

ISSUED FOR BID

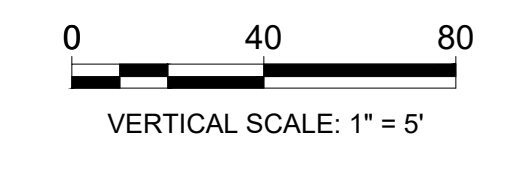
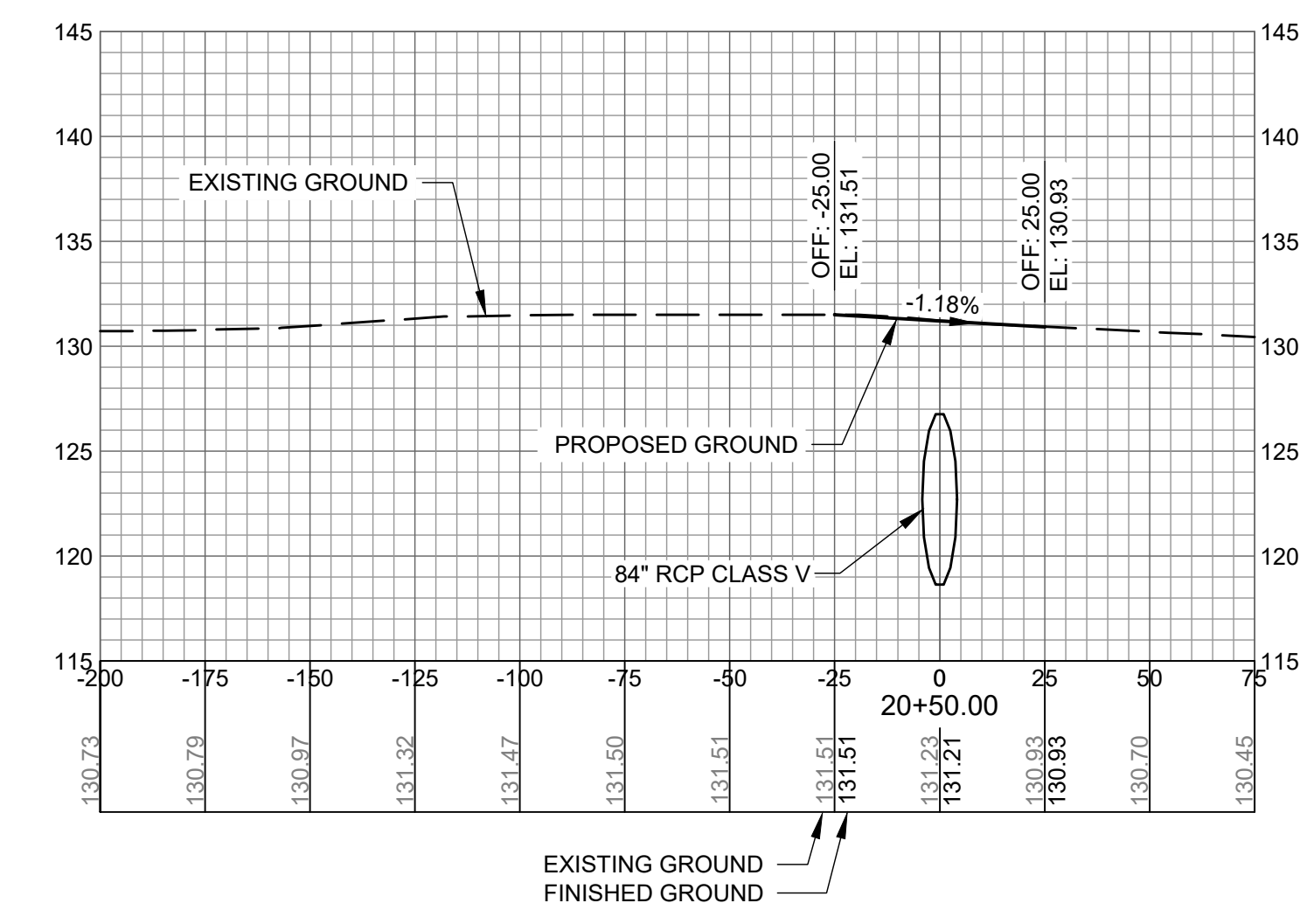
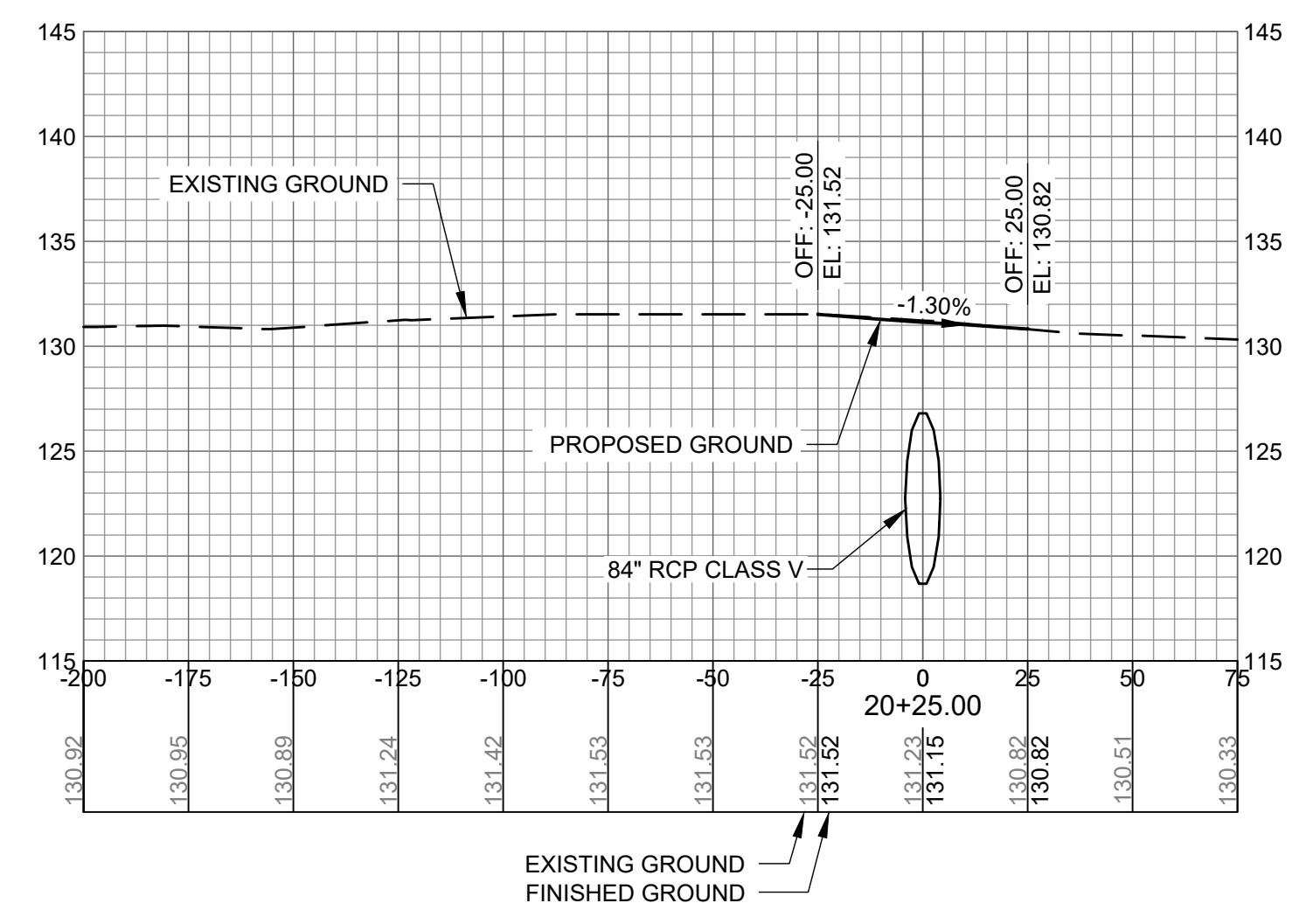
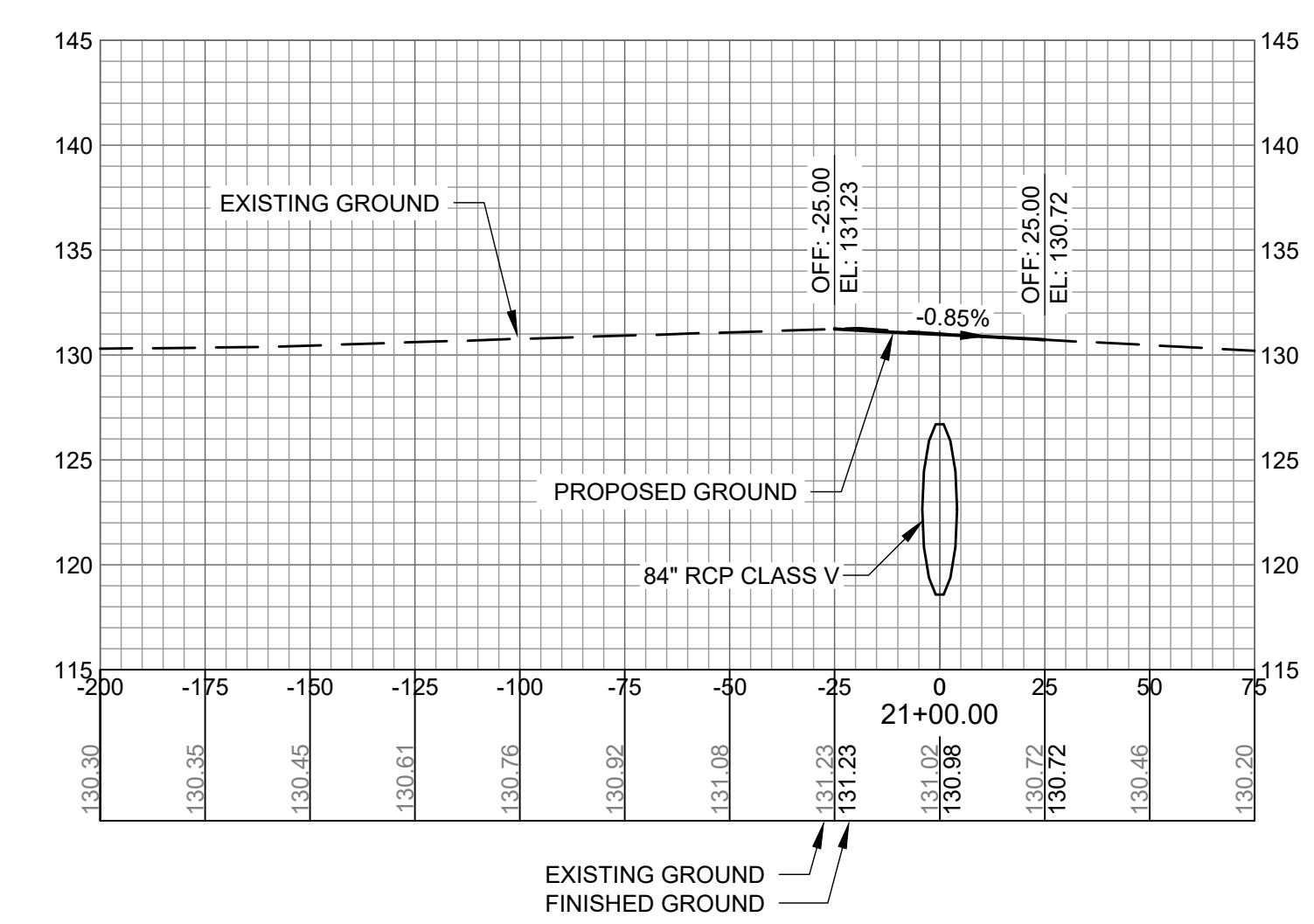
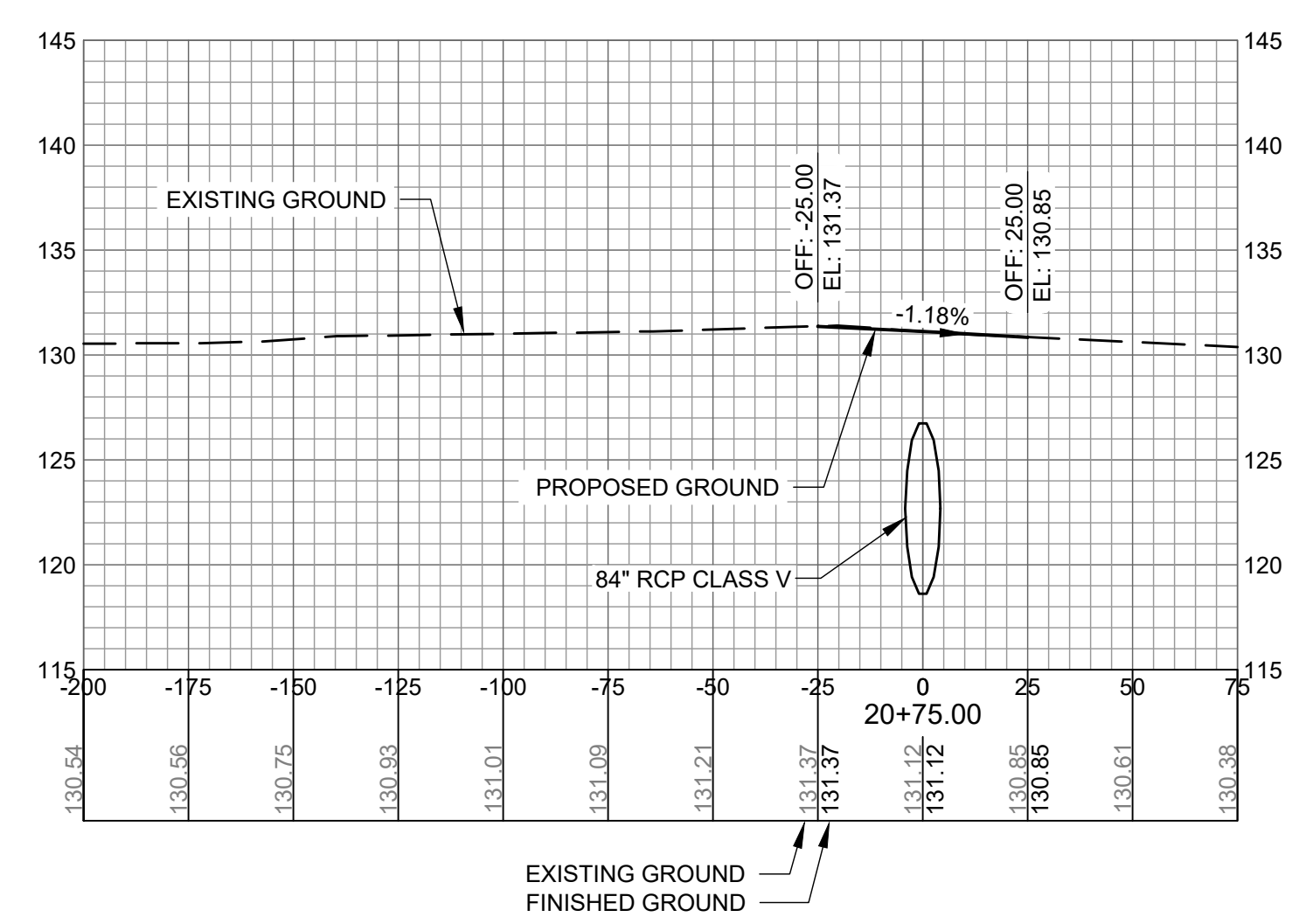
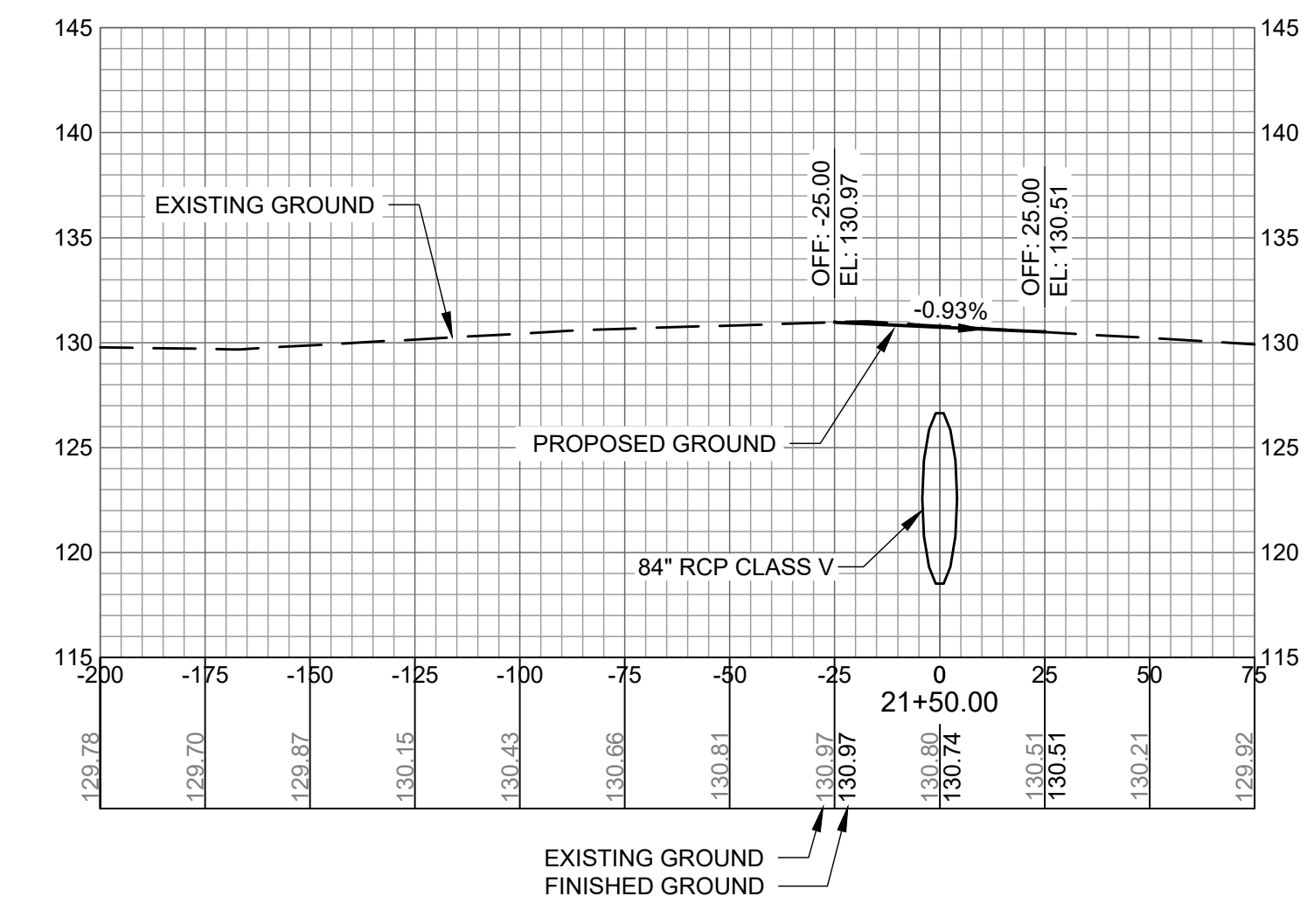
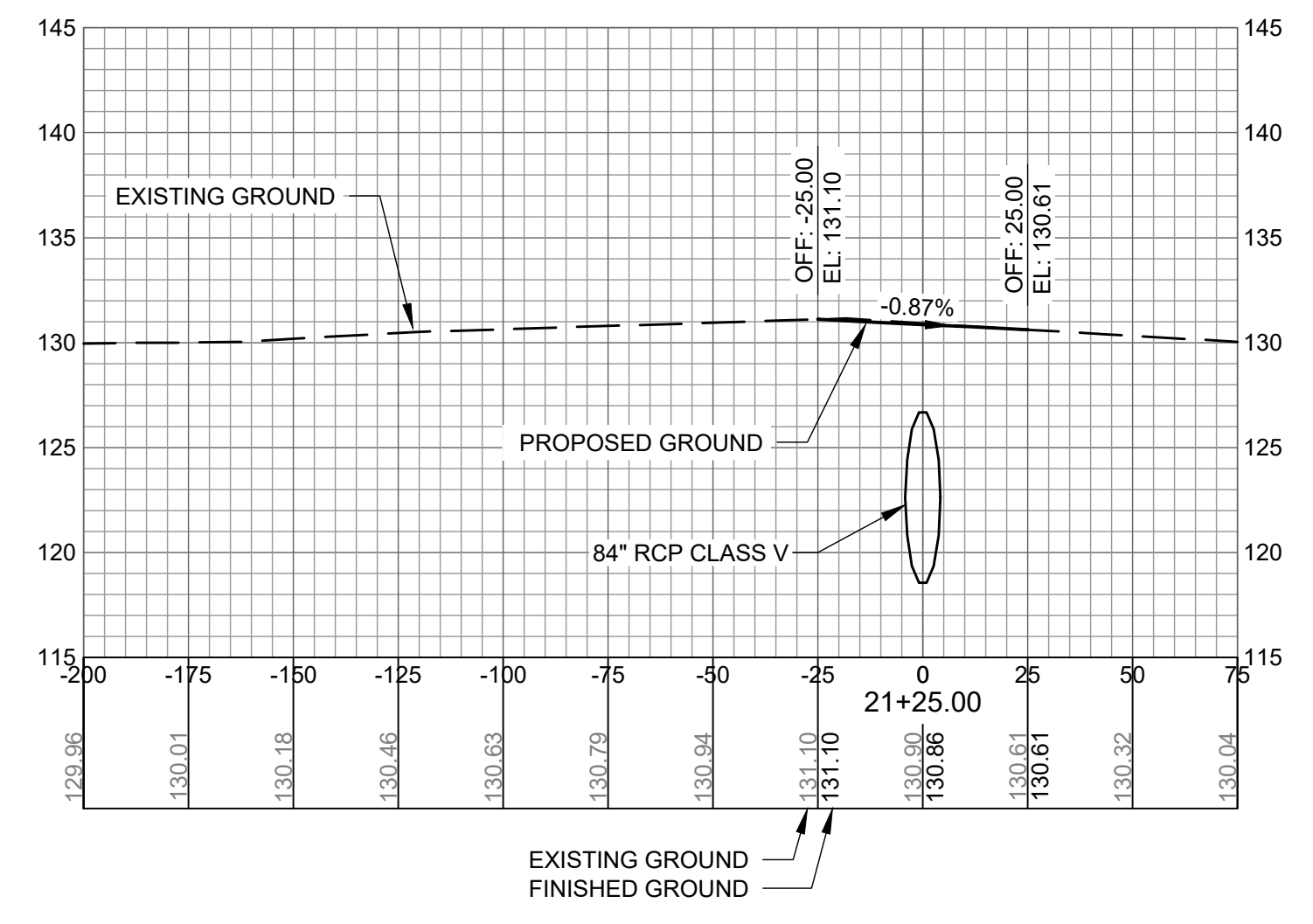
NOT FOR CONSTRUCTION

AG: 0119700-210463.01
M&H NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: NJH
DRAWN BY: NJH
CHECKED BY: EJS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
CROSS SECTIONS
20+25 TO 21+50

SHEET NO.

C-908



AUGUSTA REGIONAL AIRPORT SOUTHEAST DRAINAGE DITCH ENCLOSURE PH II 1501 AVIATION WAY AUGUSTA GA, 30906

ISSUED
ISSUED FOR BID

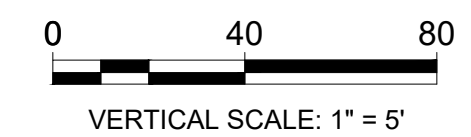
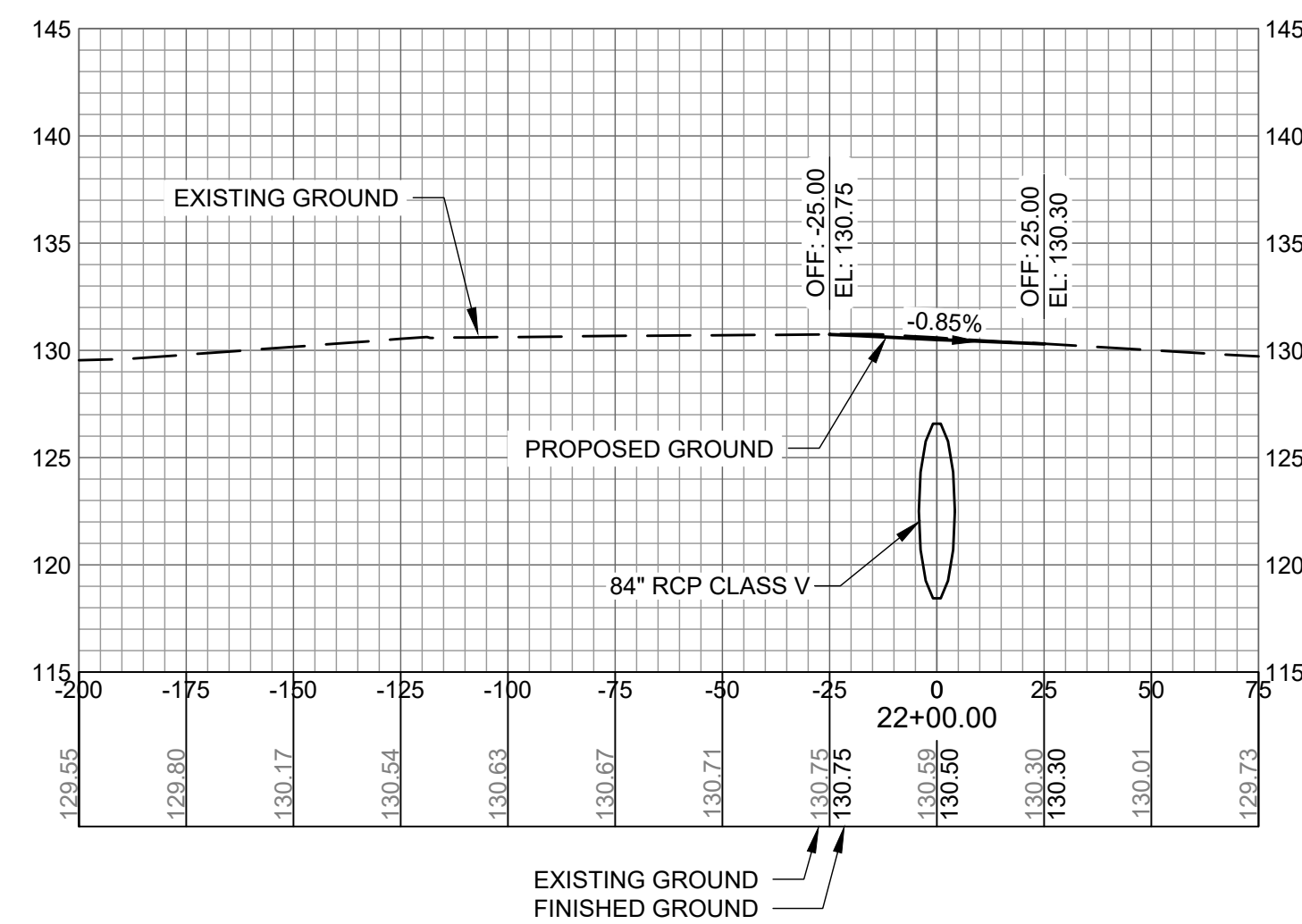
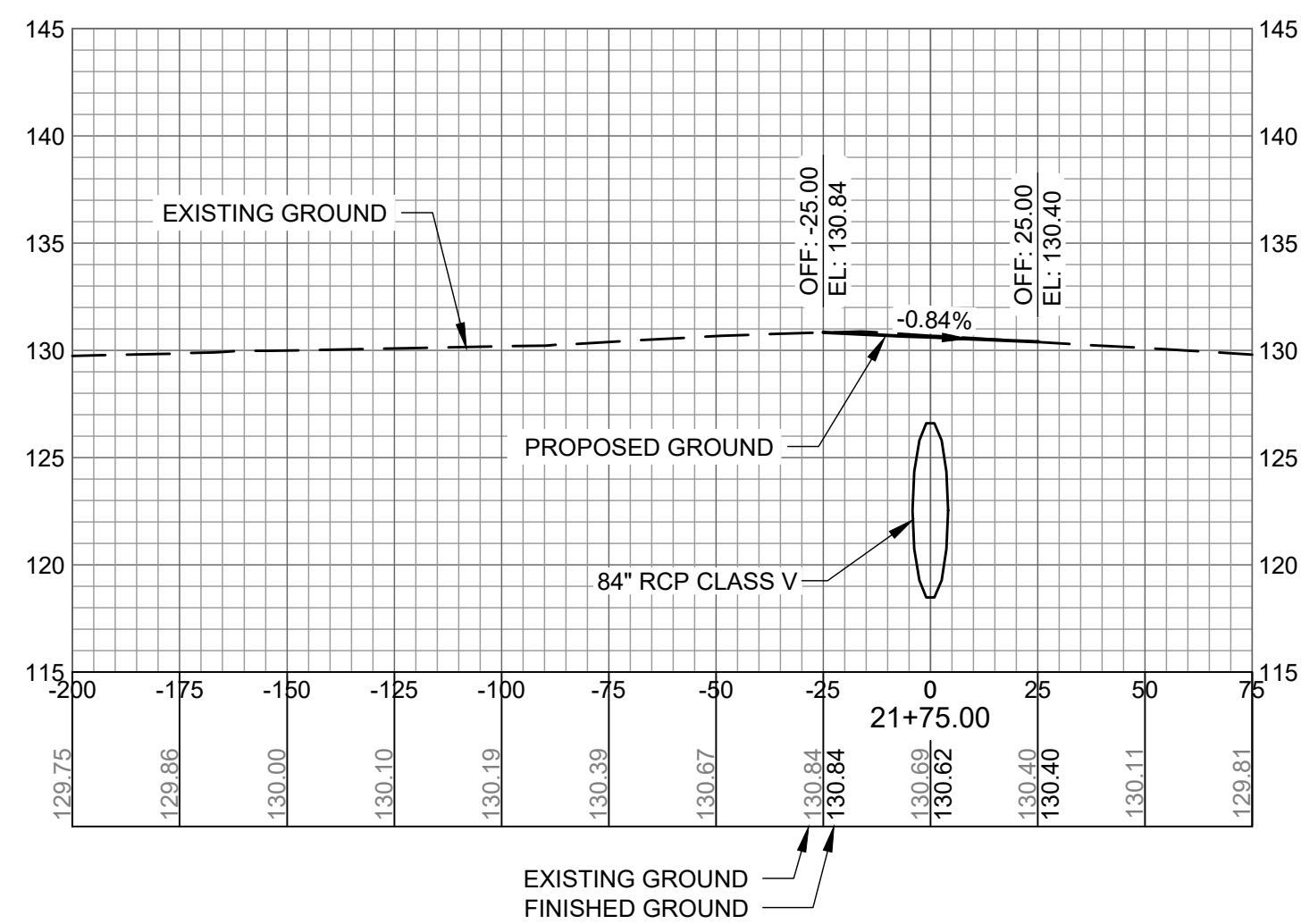
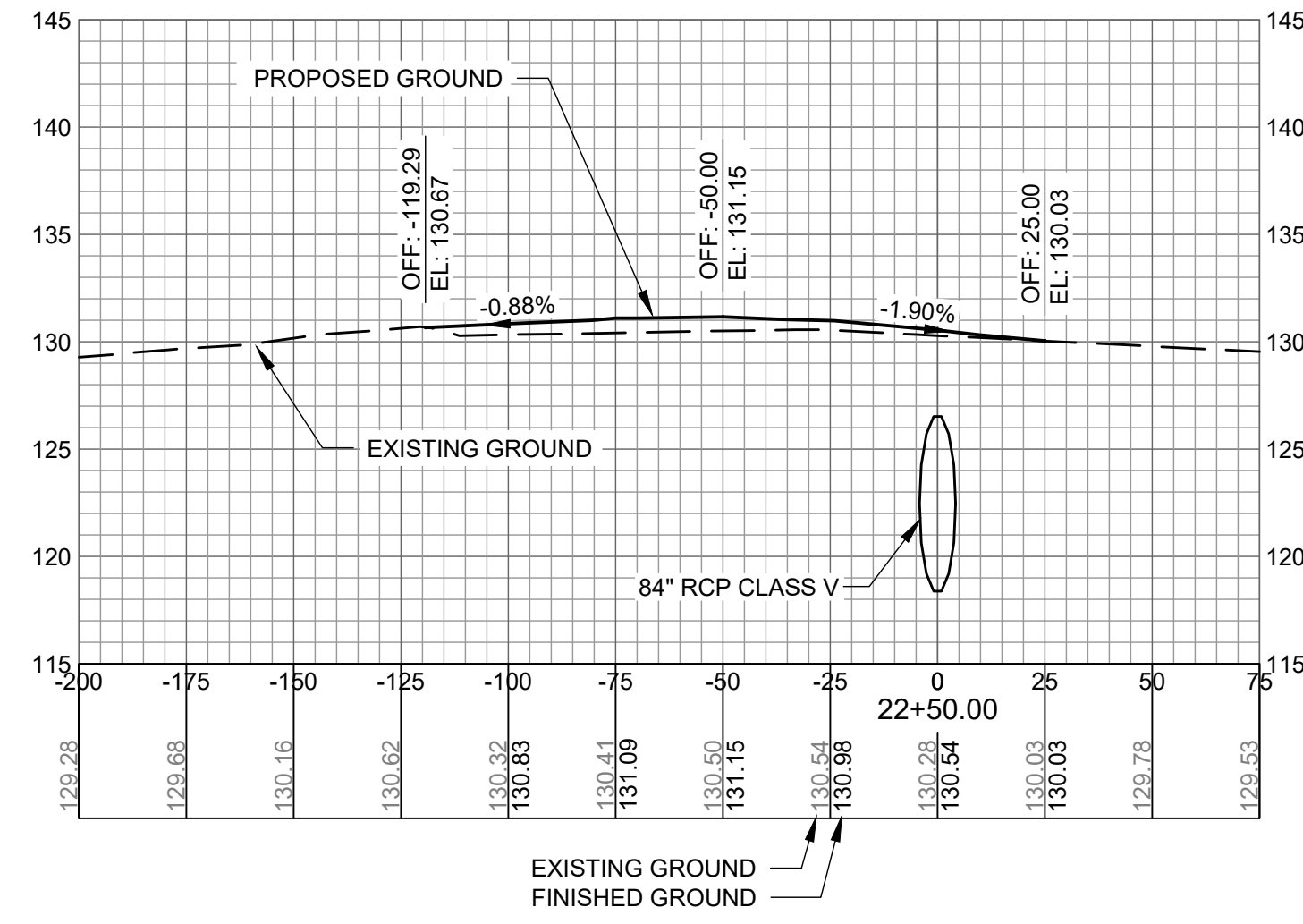
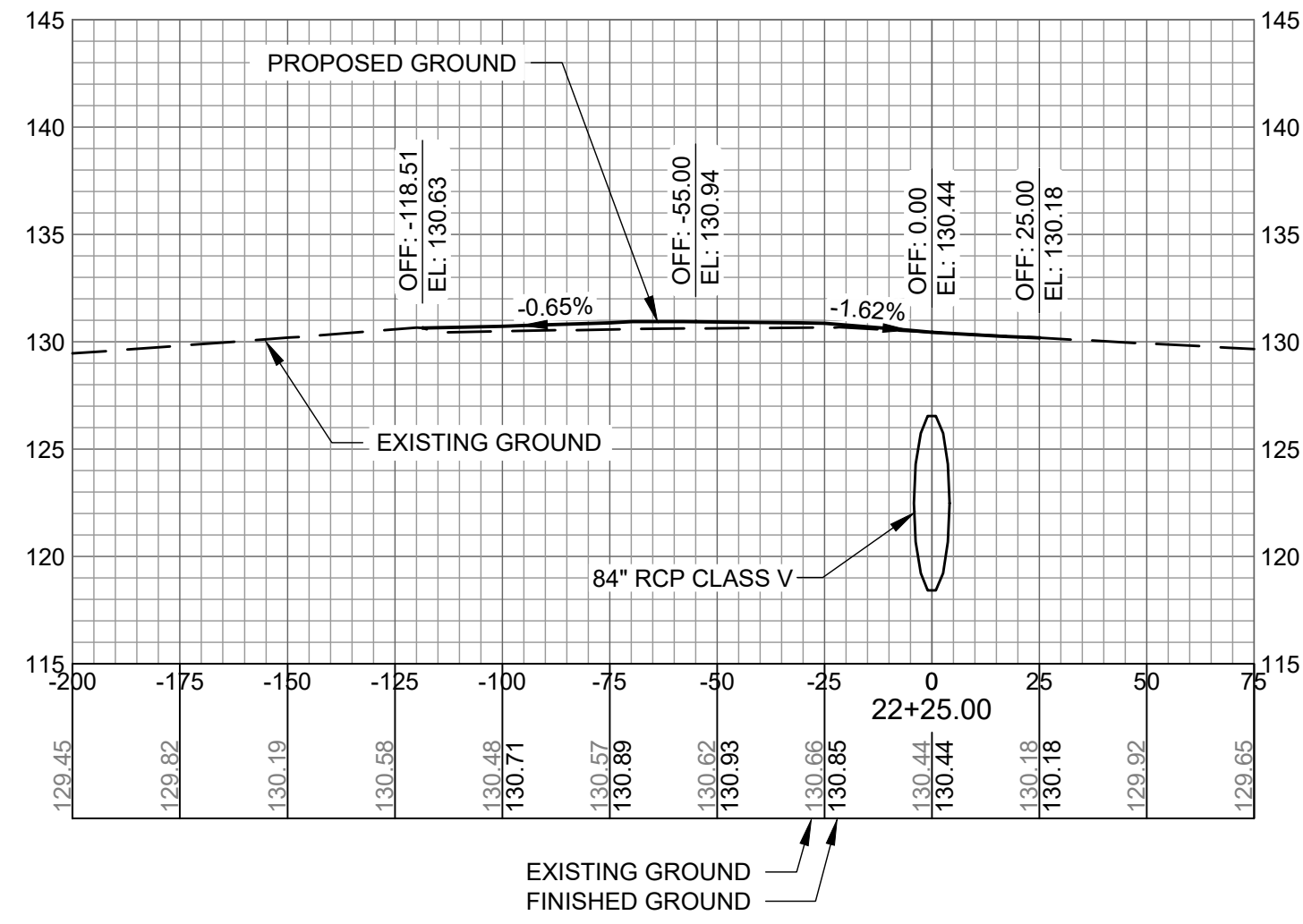
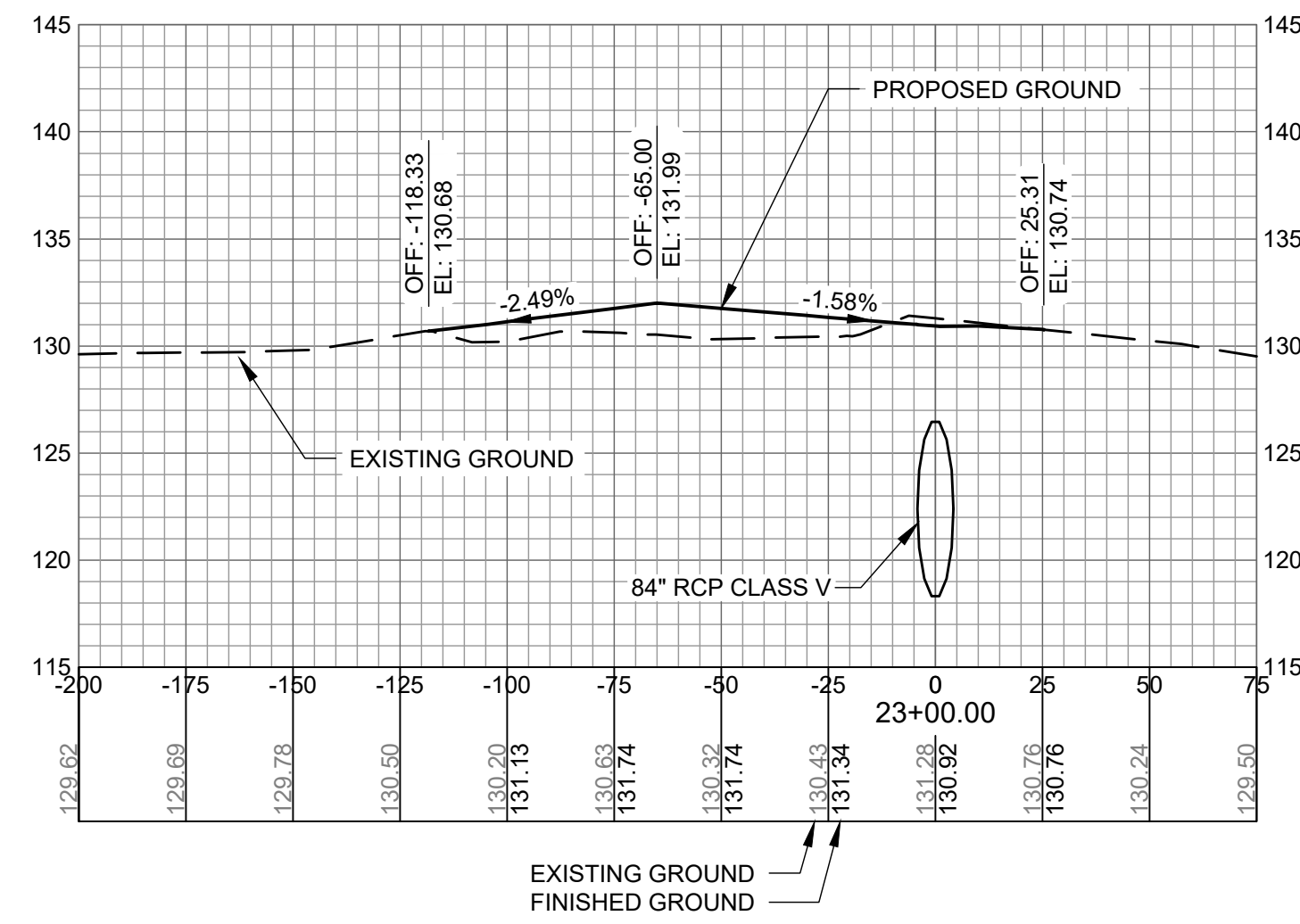
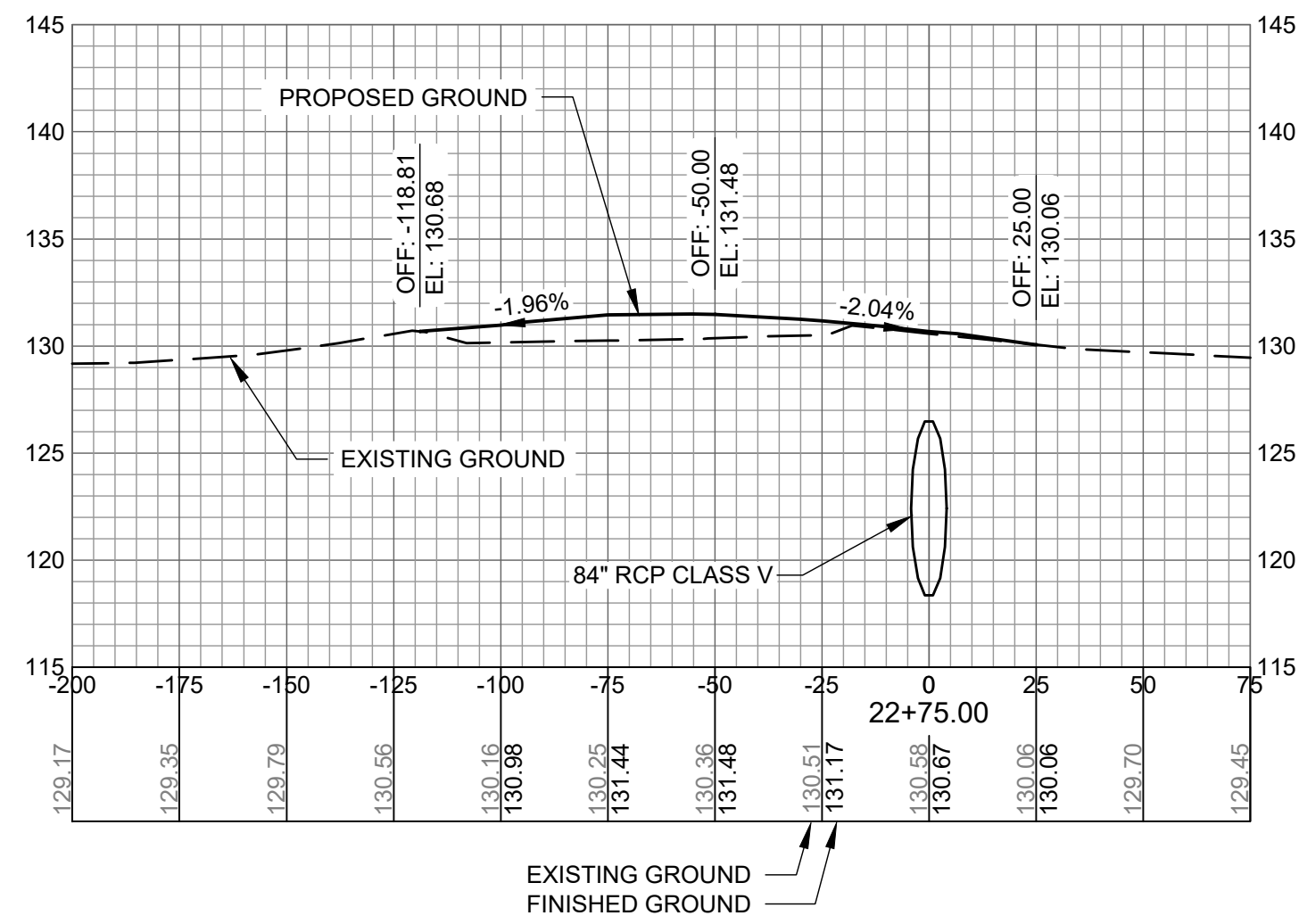
NOT FOR CONSTRUCTION

AG: 0119700-210463.01
M&H NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: NJH
DRAWN BY: NJH
CHECKED BY: EJS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
CROSS SECTIONS
21+75 TO 23+00

SHEET NO.

C-909



**AUGUSTA REGIONAL AIRPORT
SOUTHEAST DRAINAGE DITCH
ENCLOSURE PH II
1501 AVIATION WAY
AUGUSTA GA, 30906**

ISSUED
ISSUED FOR BID

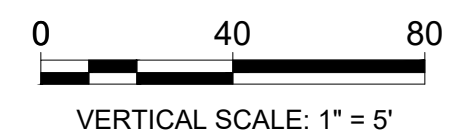
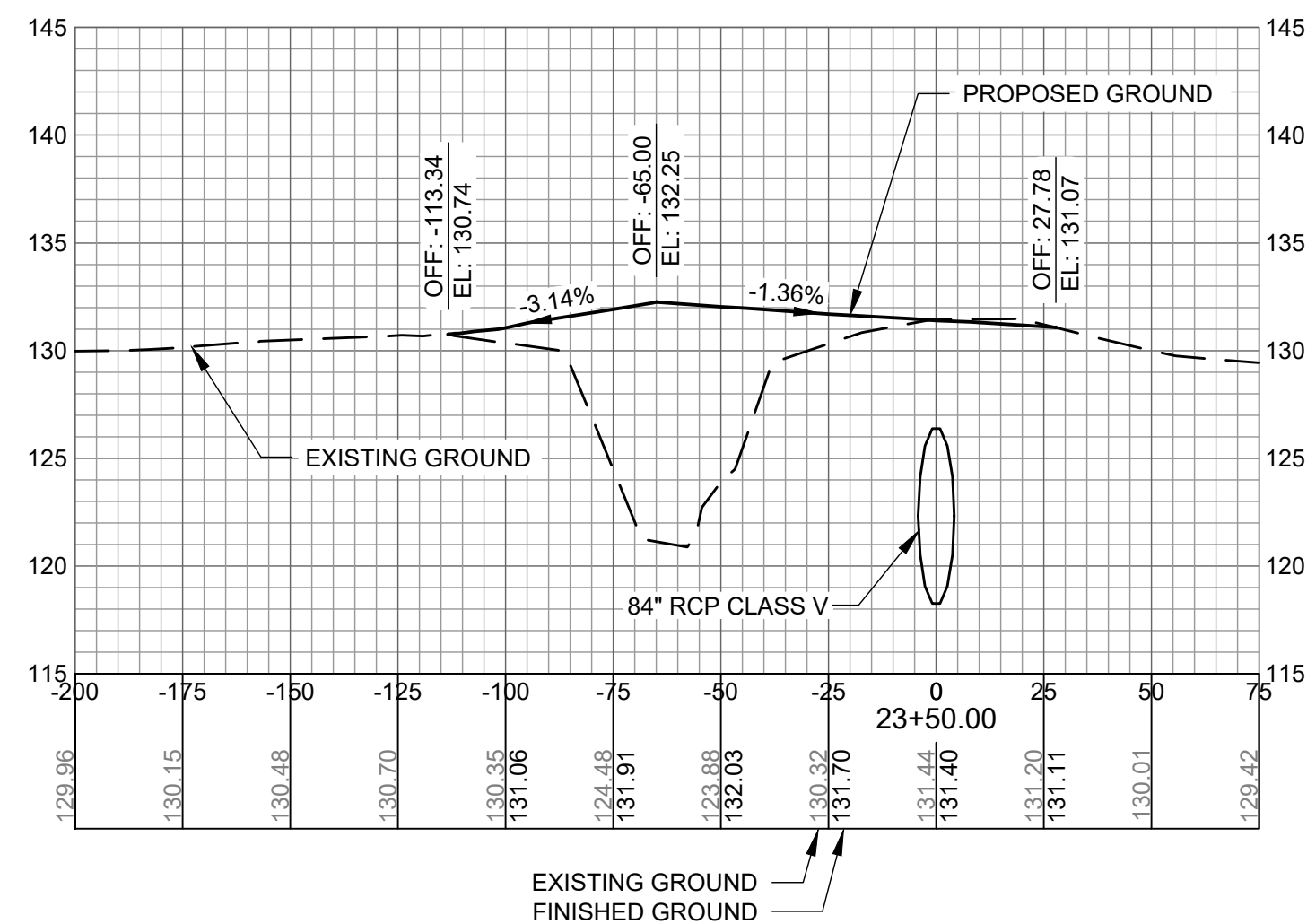
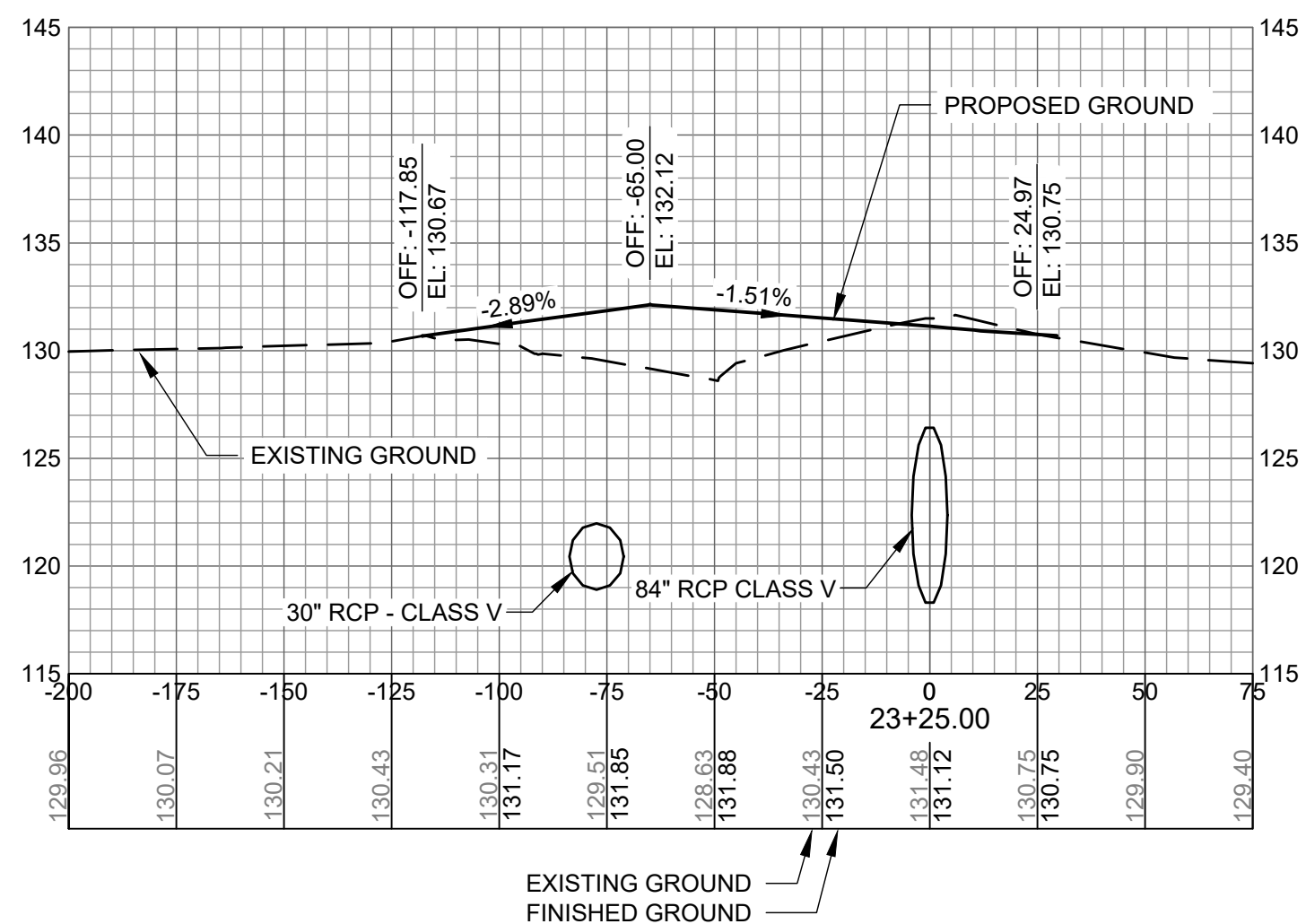
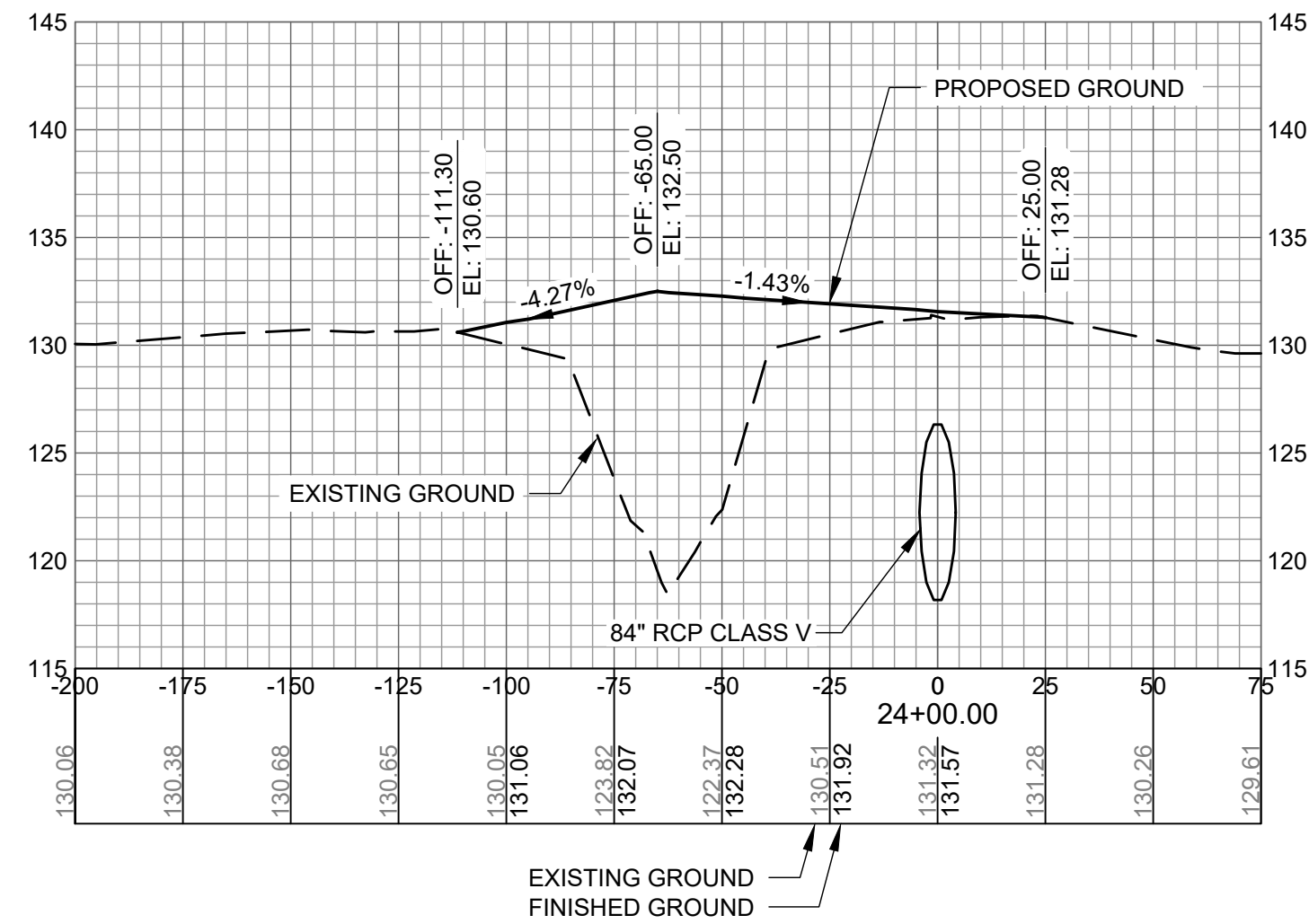
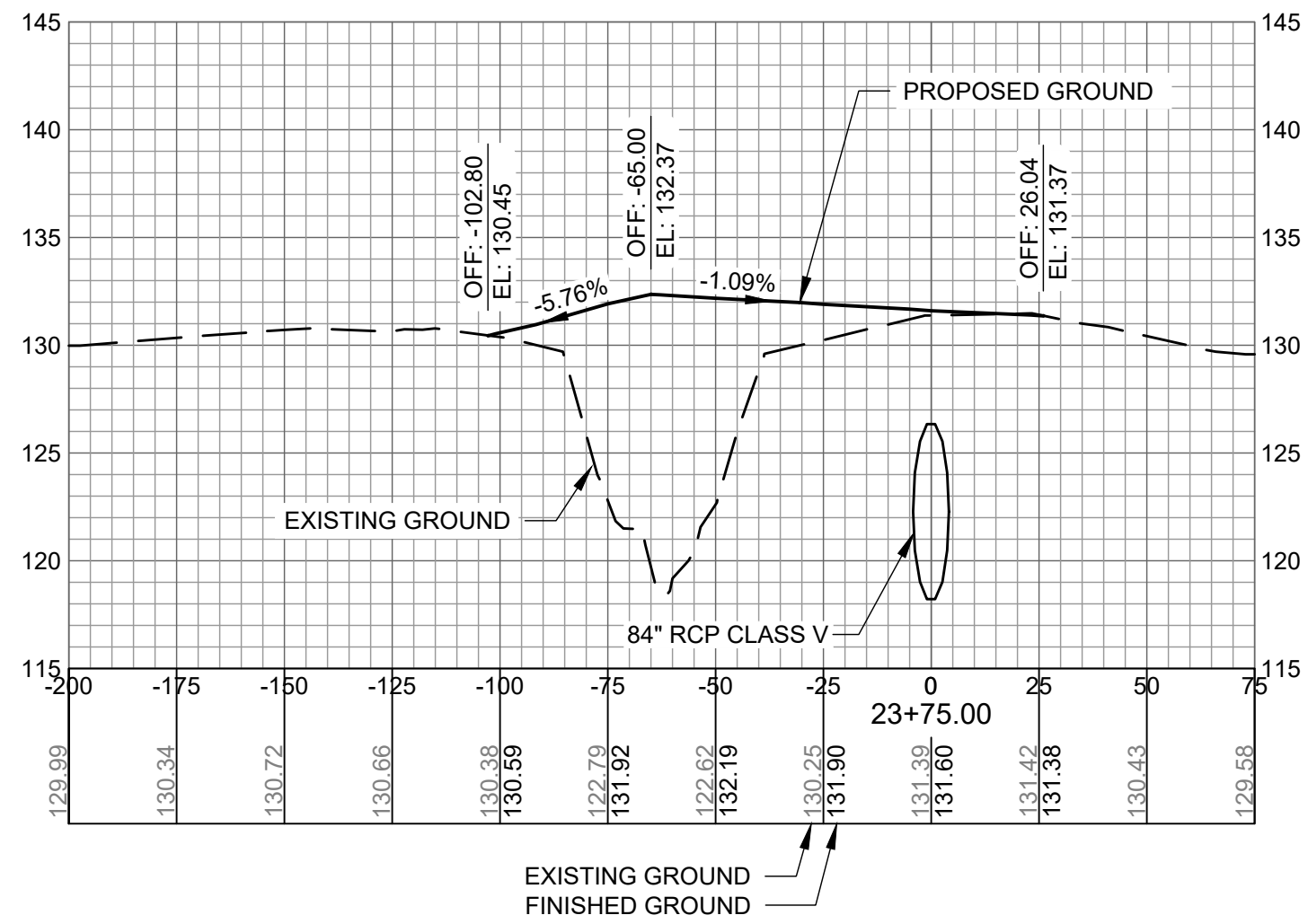
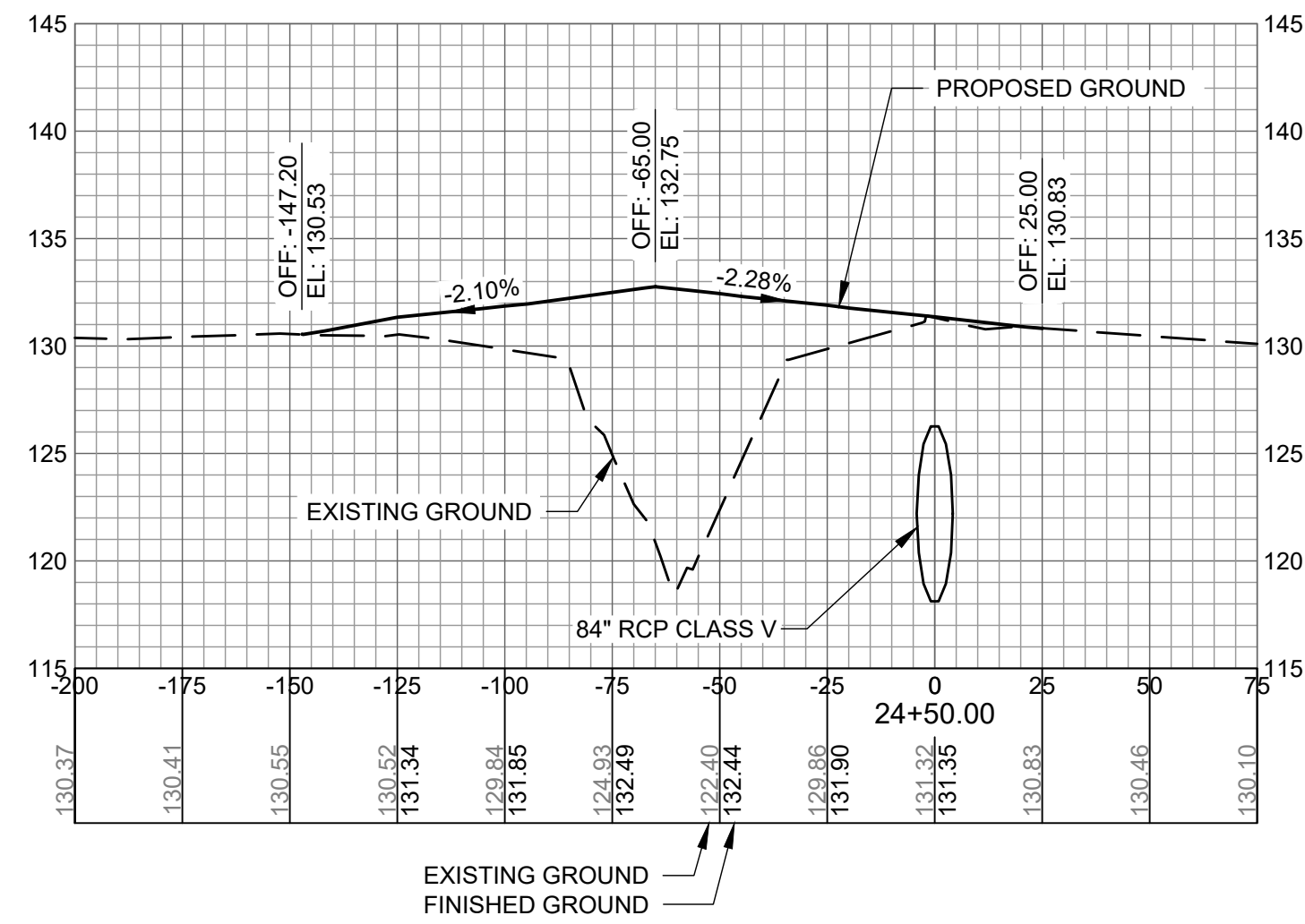
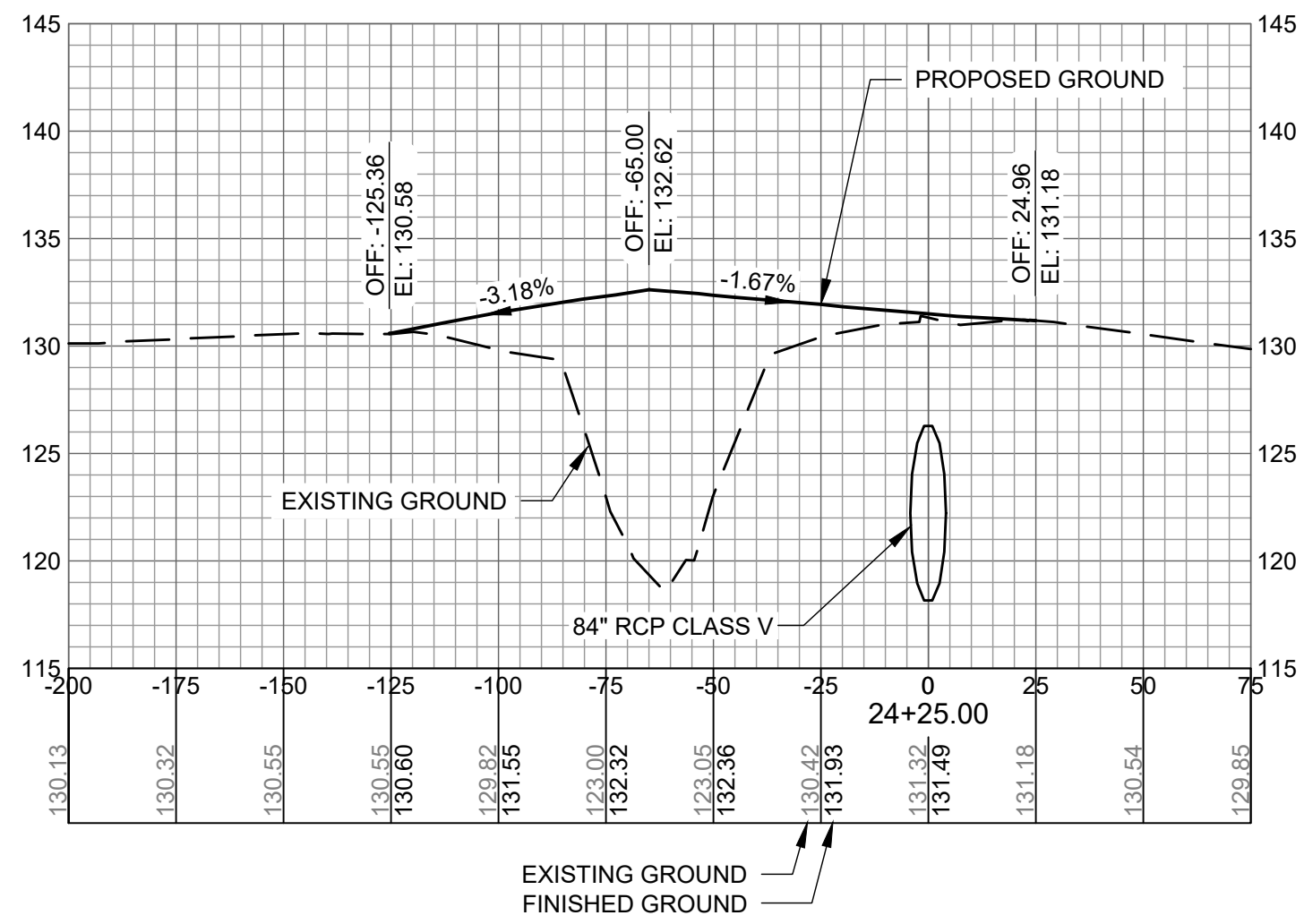
NOT FOR CONSTRUCTION

AGS:
M&H NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: NJH
DRAWN BY: NJH
CHECKED BY: EJS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
CROSS SECTIONS
23+25 TO 24+50

SHEET NO.

C-910



AUGUSTA REGIONAL AIRPORT SOUTHEAST DRAINAGE DITCH ENCLOSURE PH II 1501 AVIATION WAY AUGUSTA GA, 30906

ISSUED
ISSUED FOR BID

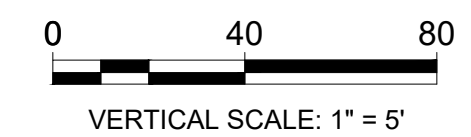
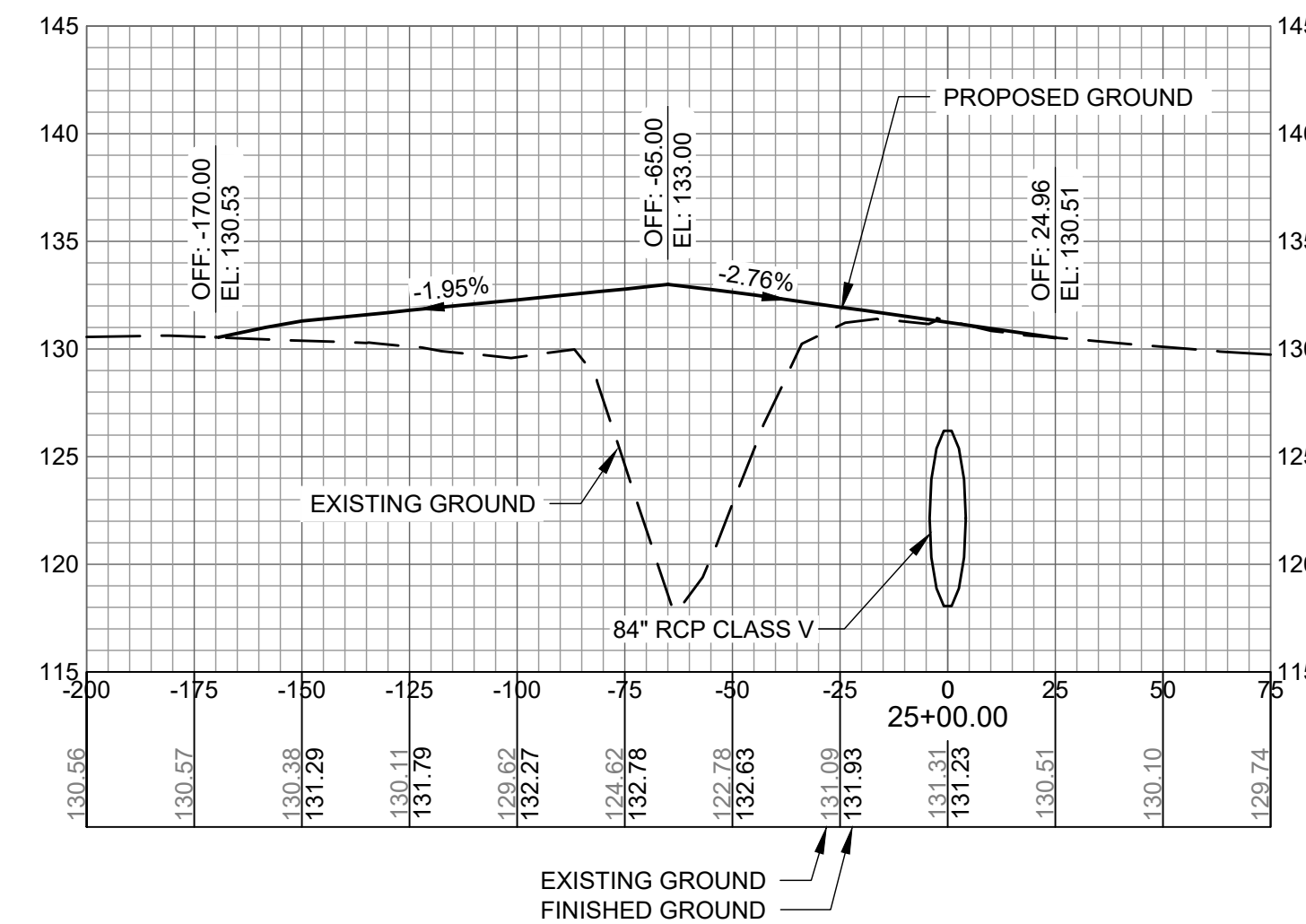
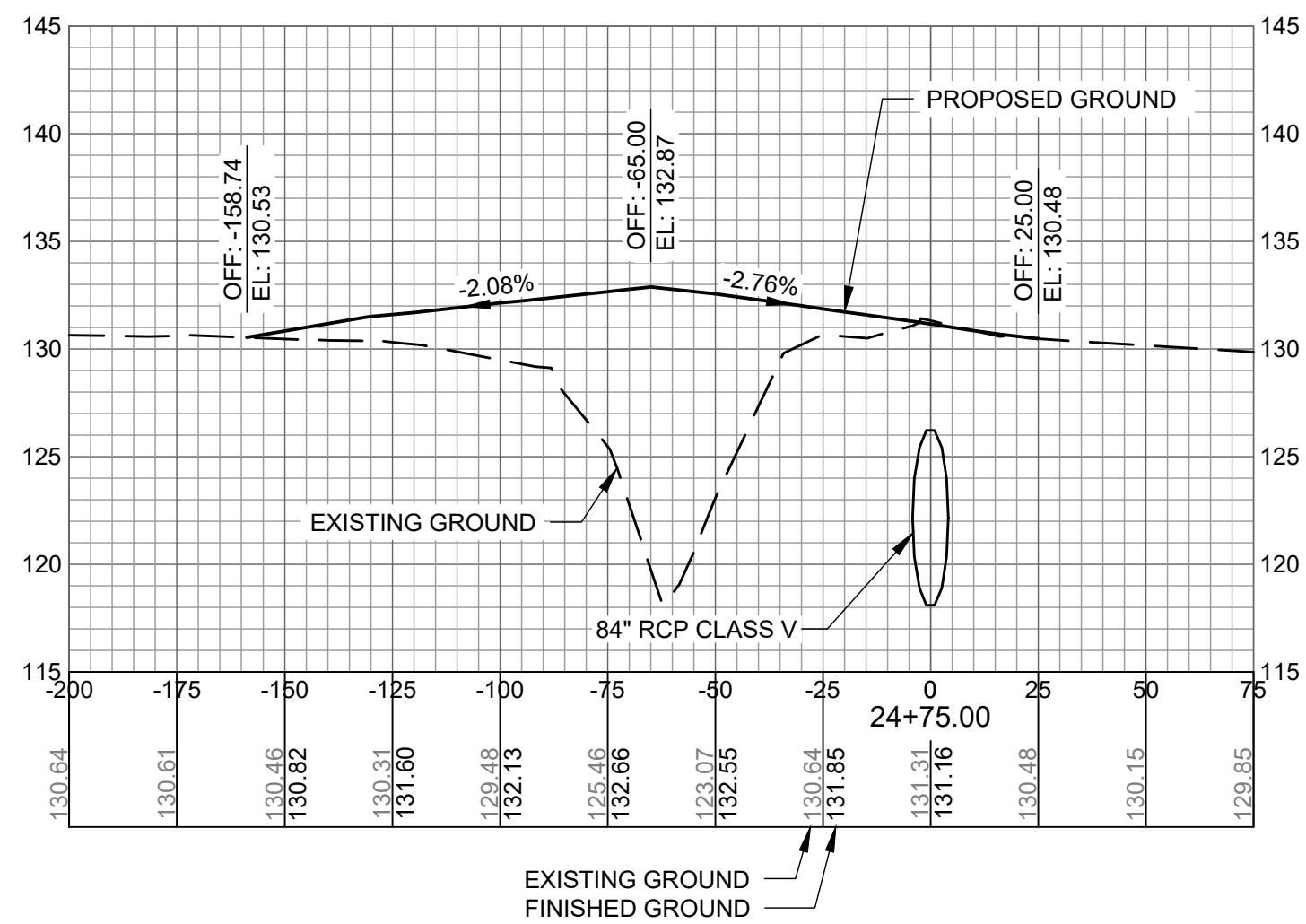
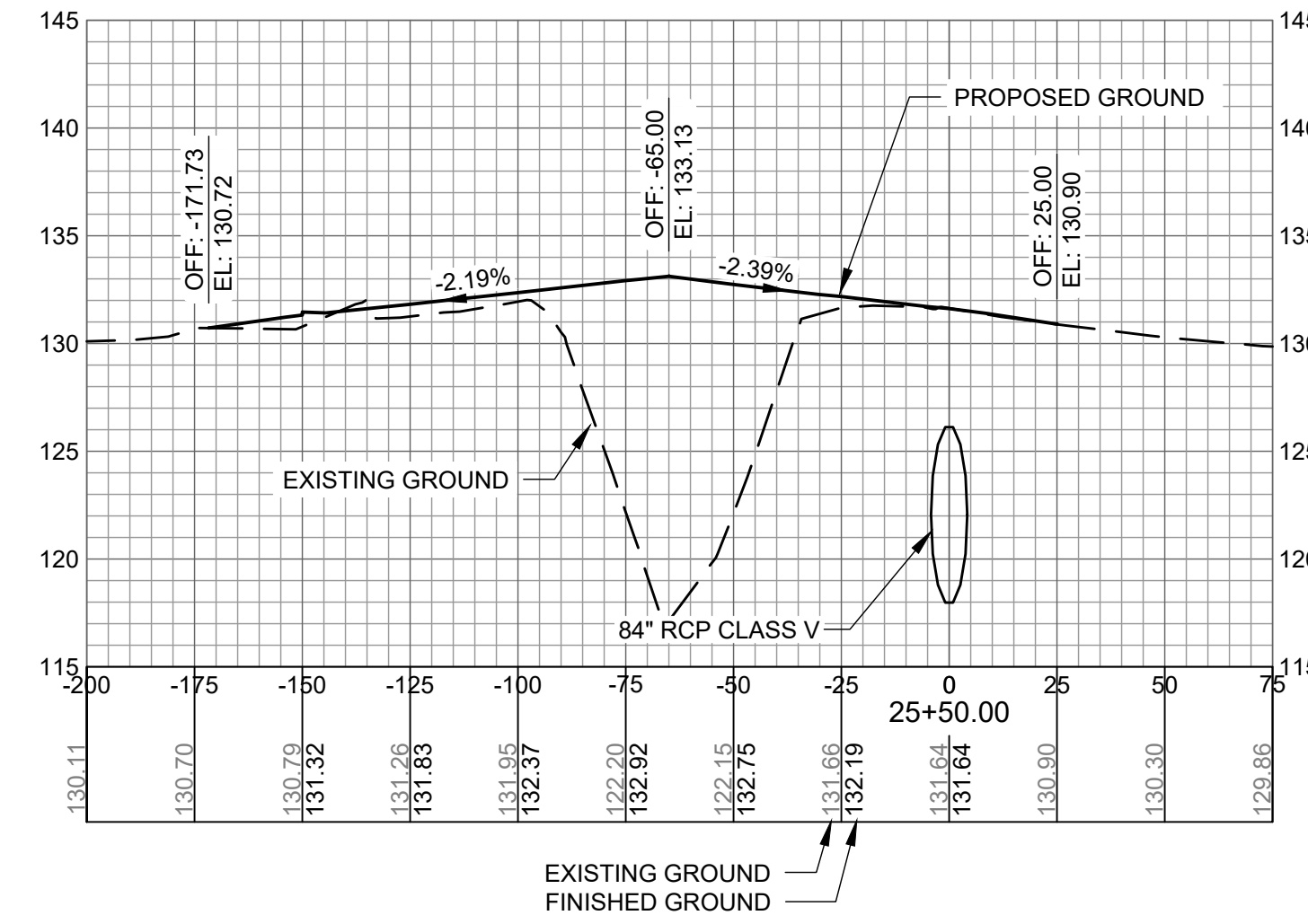
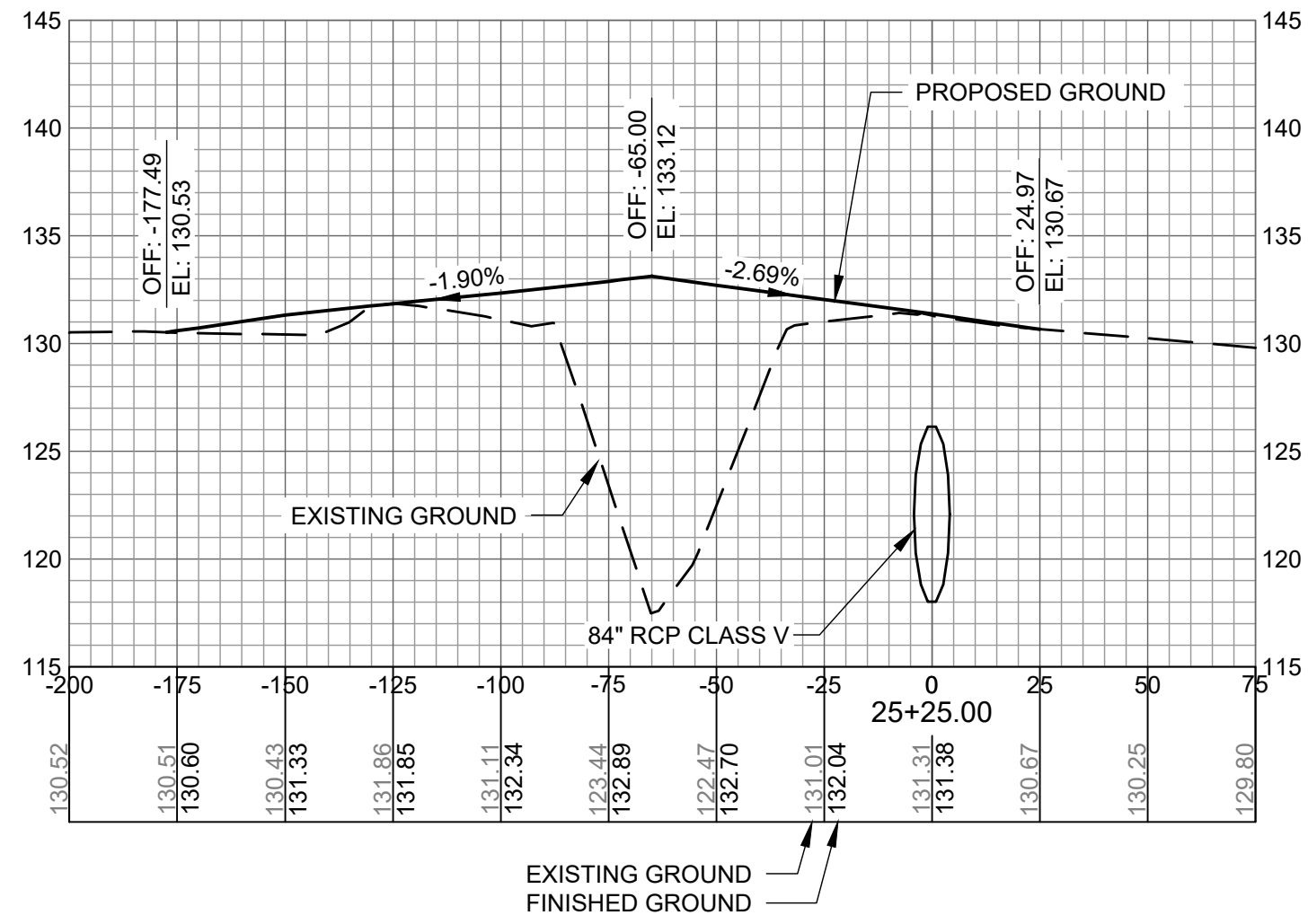
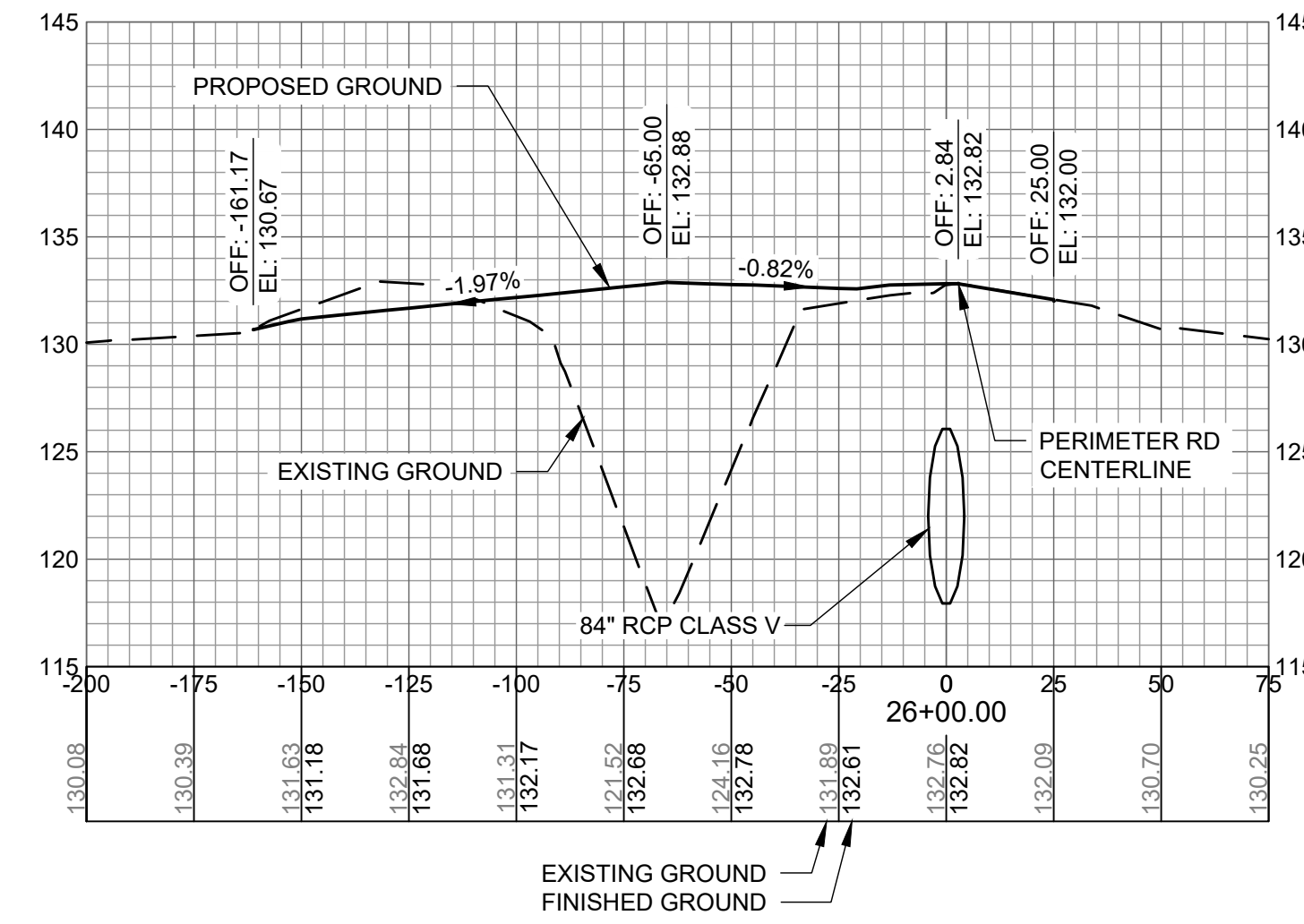
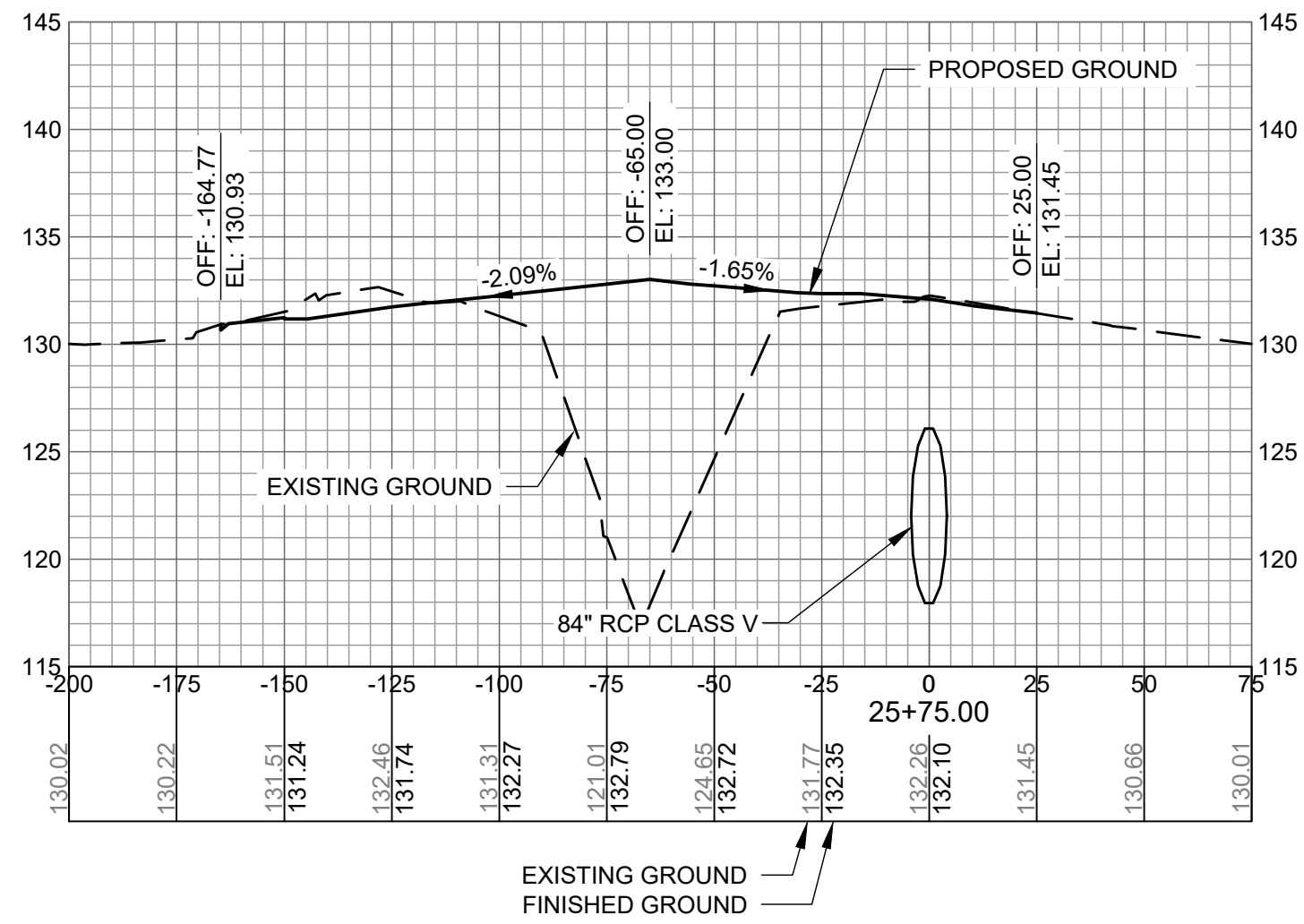
NOT FOR CONSTRUCTION

AG:
M&H NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: NJH
DRAWN BY: NJH
CHECKED BY: EJS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
CROSS SECTIONS
24+75 TO 26+00

SHEET NO.

C-911



AUGUSTA REGIONAL AIRPORT SOUTHEAST DRAINAGE DITCH ENCLOSURE PH II 1501 AVIATION WAY AUGUSTA GA, 30906

ISSUED
ISSUED FOR BID

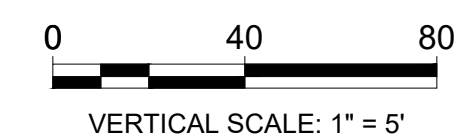
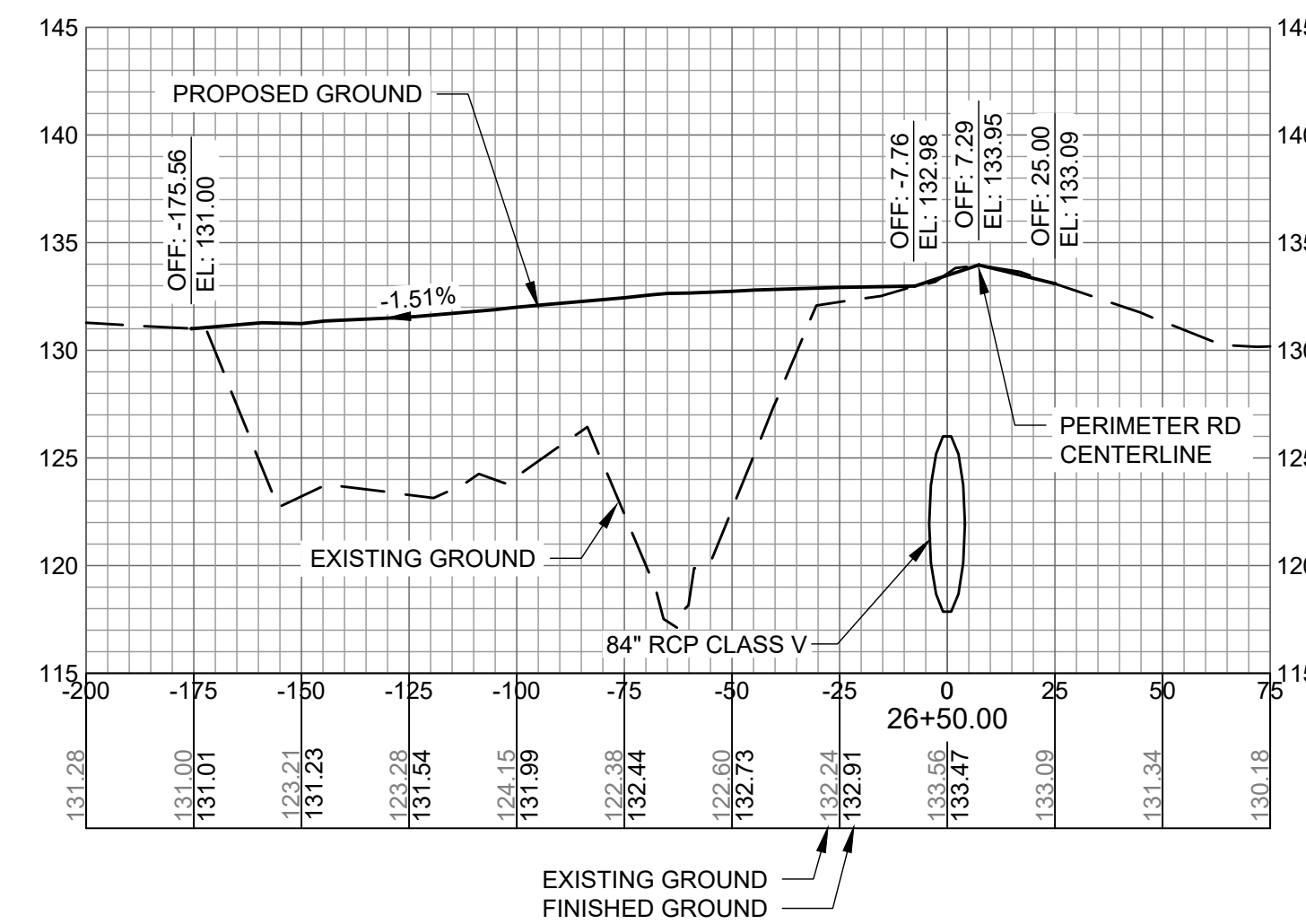
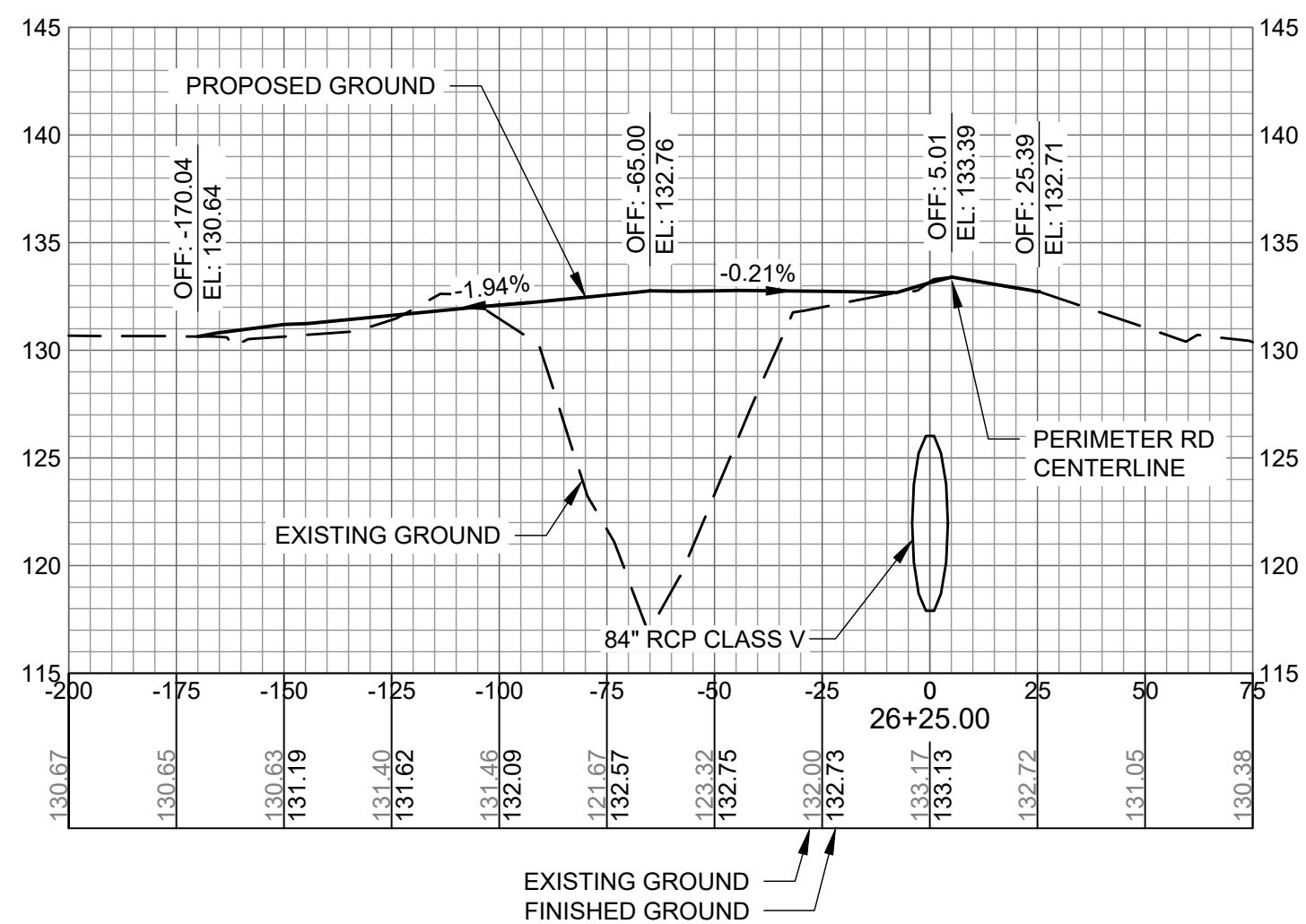
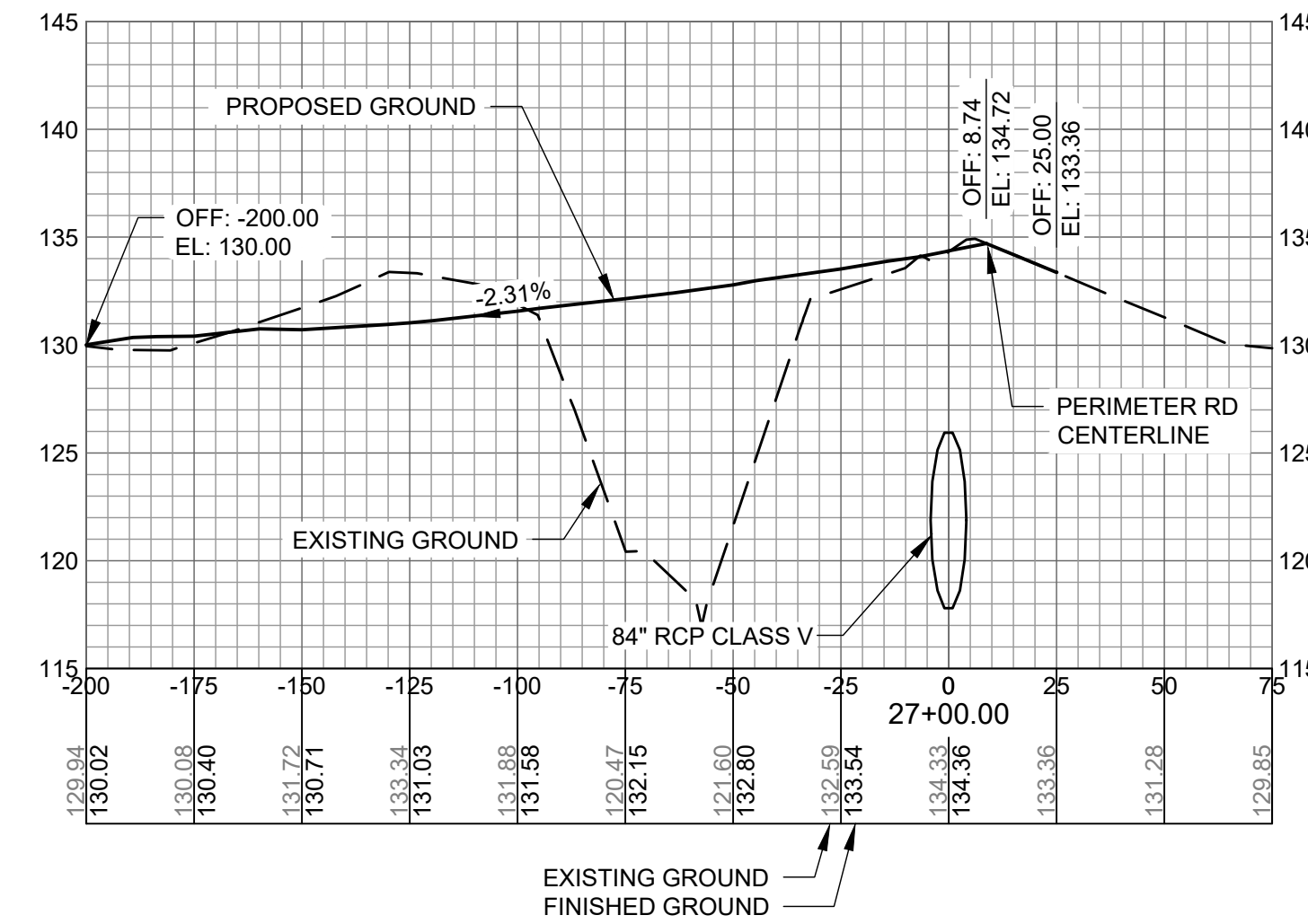
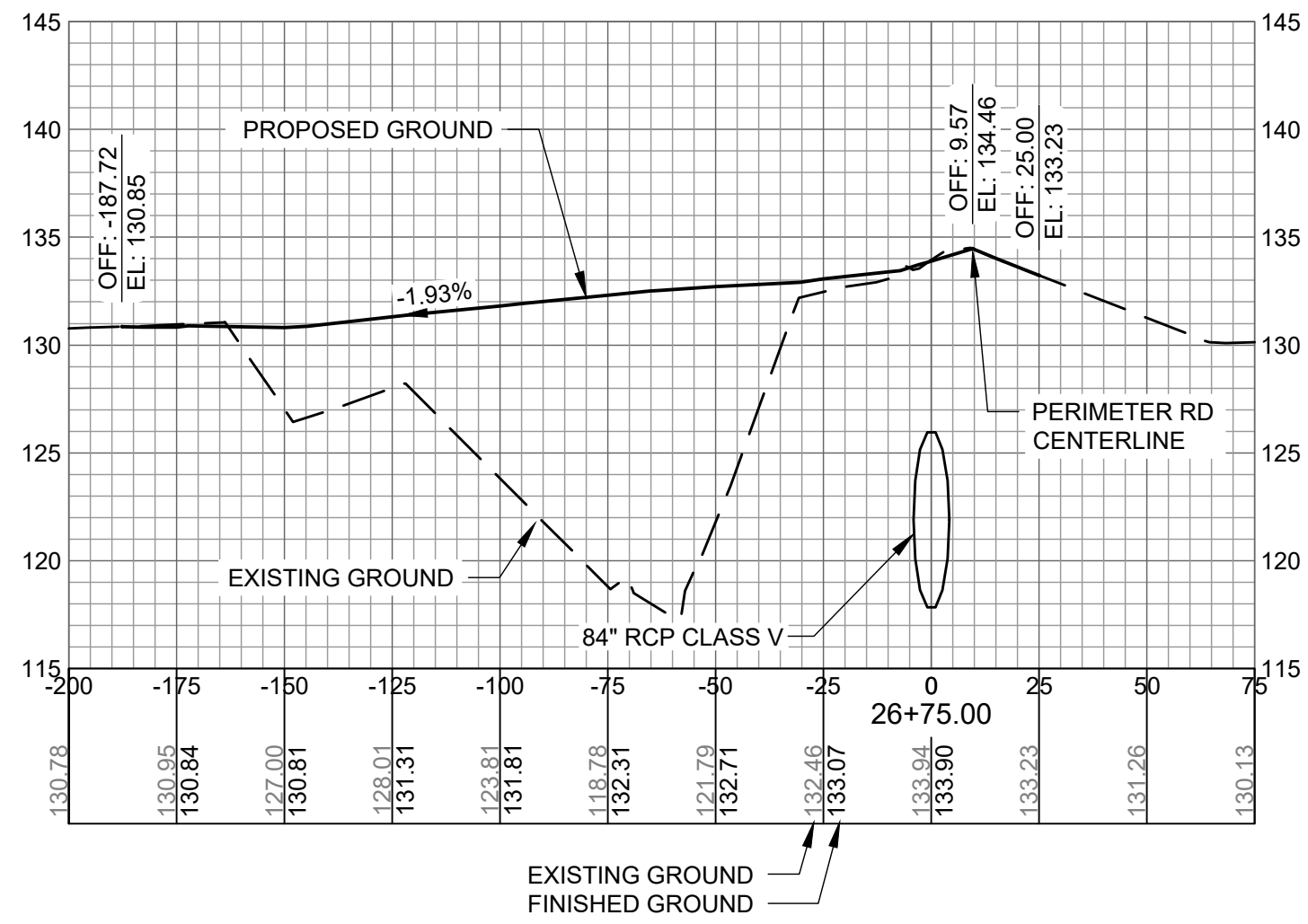
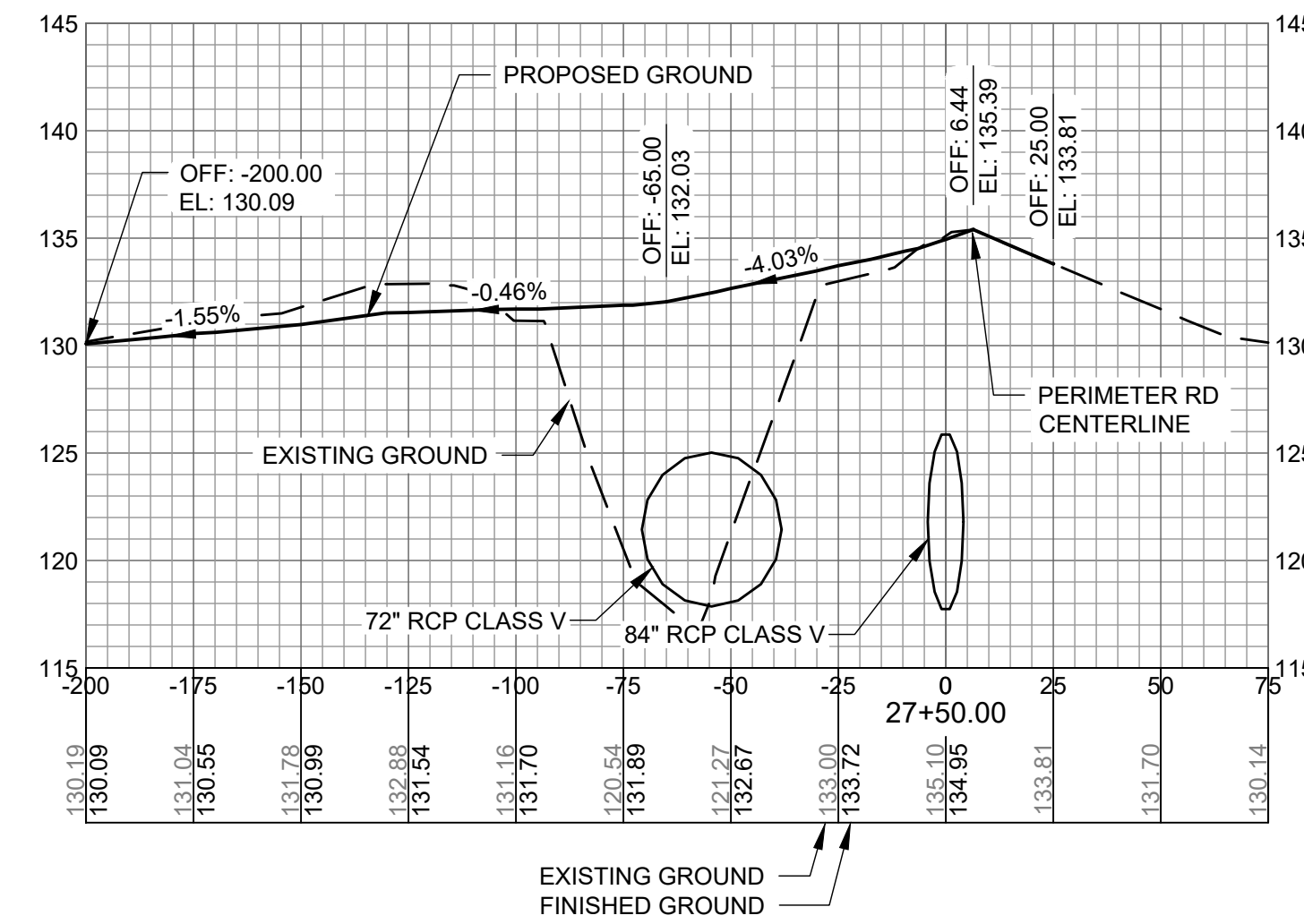
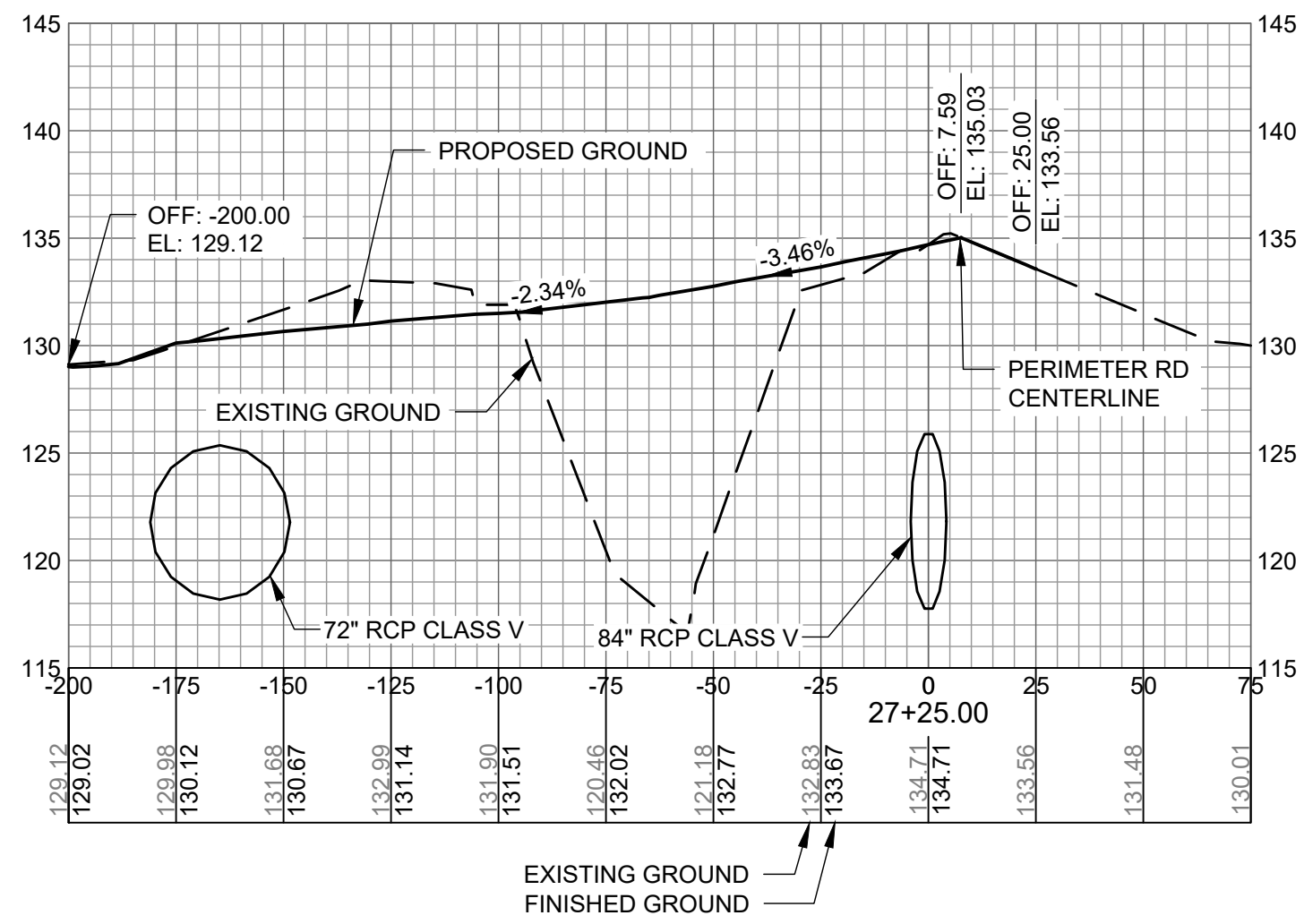
NOT FOR CONSTRUCTION

AGS:
M&H NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: NJH
DRAWN BY: NJH
CHECKED BY: EJS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
CROSS SECTIONS
26+25 TO 27+50

SHEET NO.

C-912



AUGUSTA REGIONAL AIRPORT SOUTHEAST DRAINAGE DITCH ENCLOSURE PH II 1501 AVIATION WAY AUGUSTA GA, 30906

ISSUED
ISSUED FOR BID

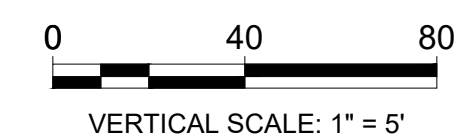
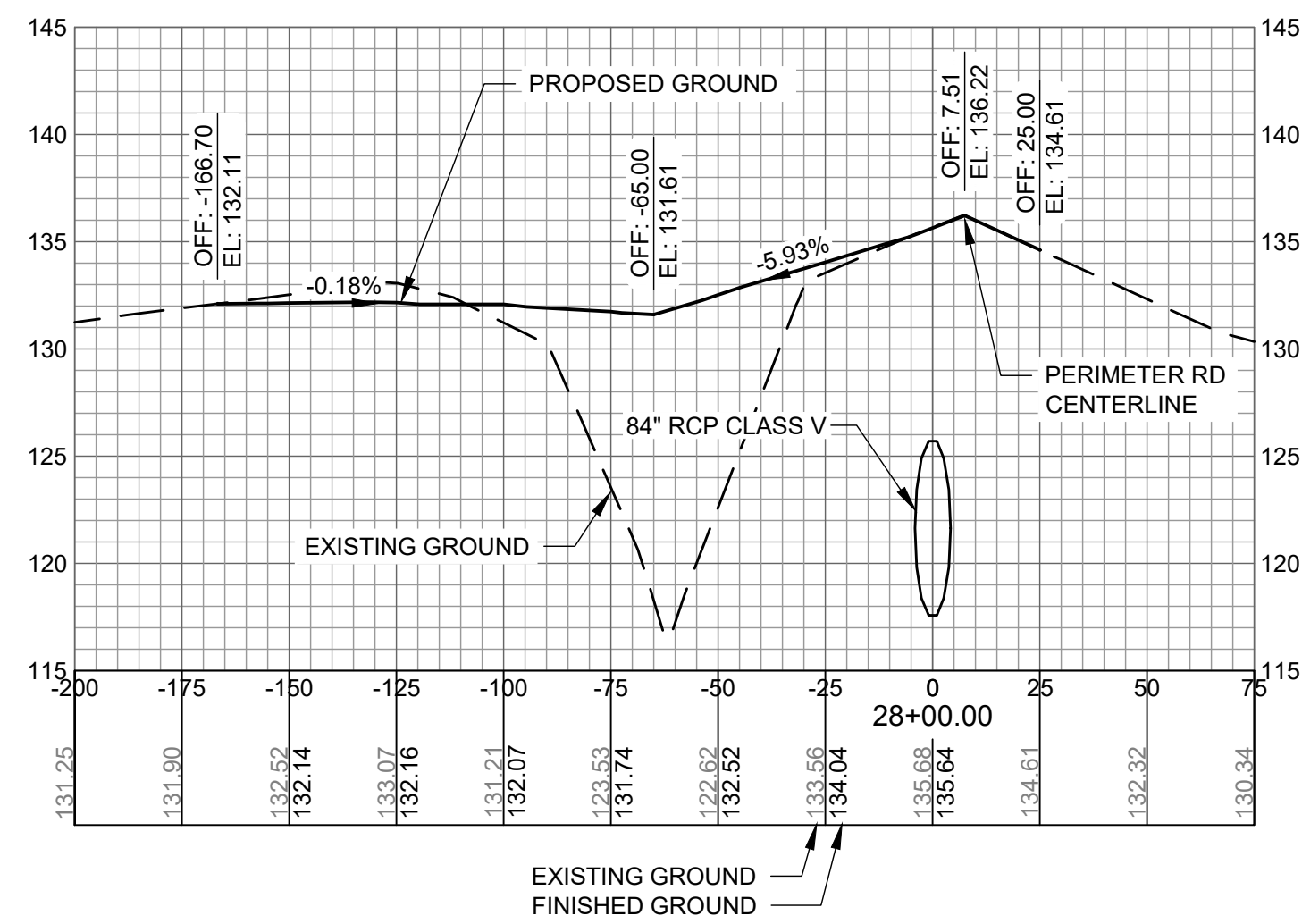
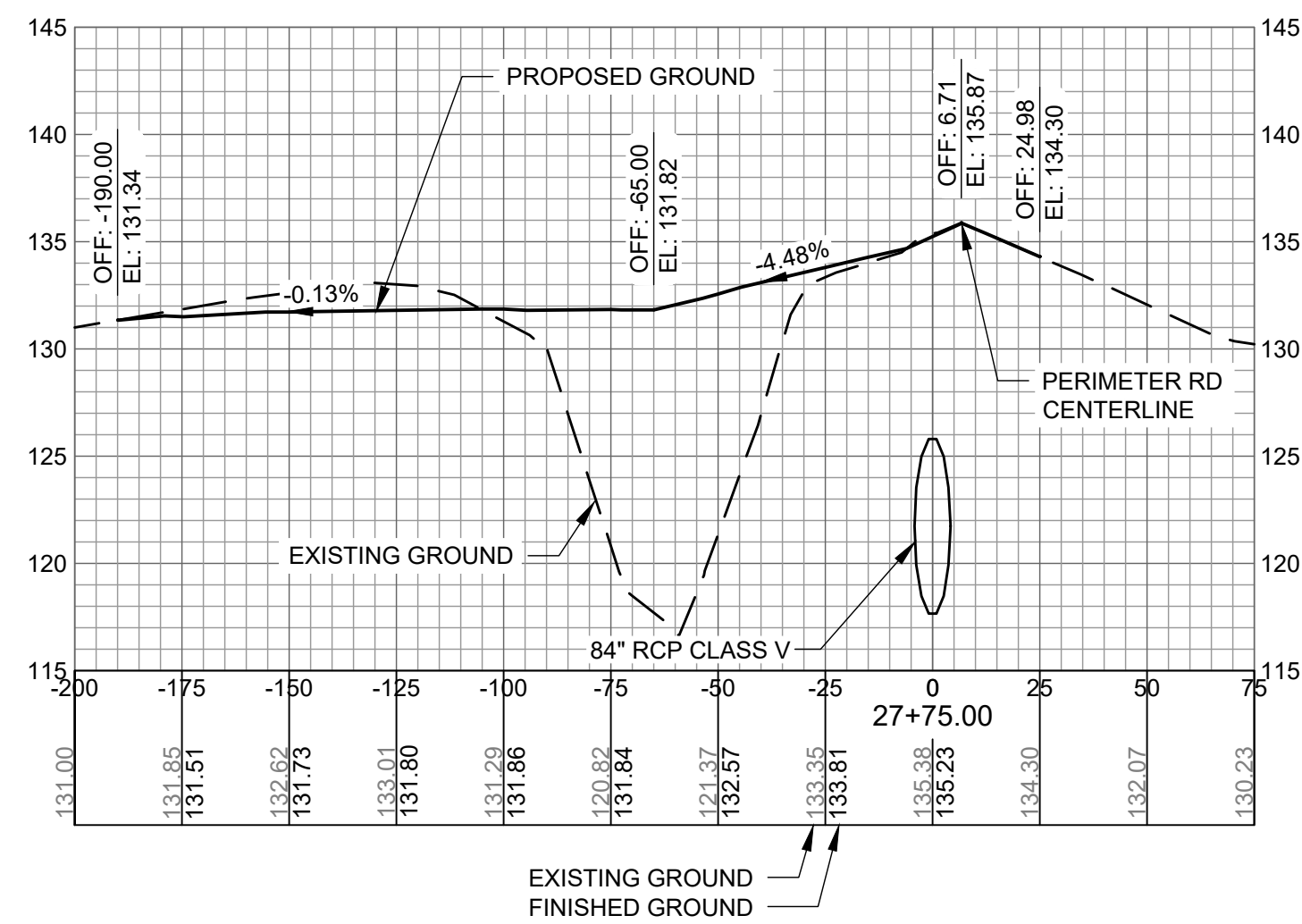
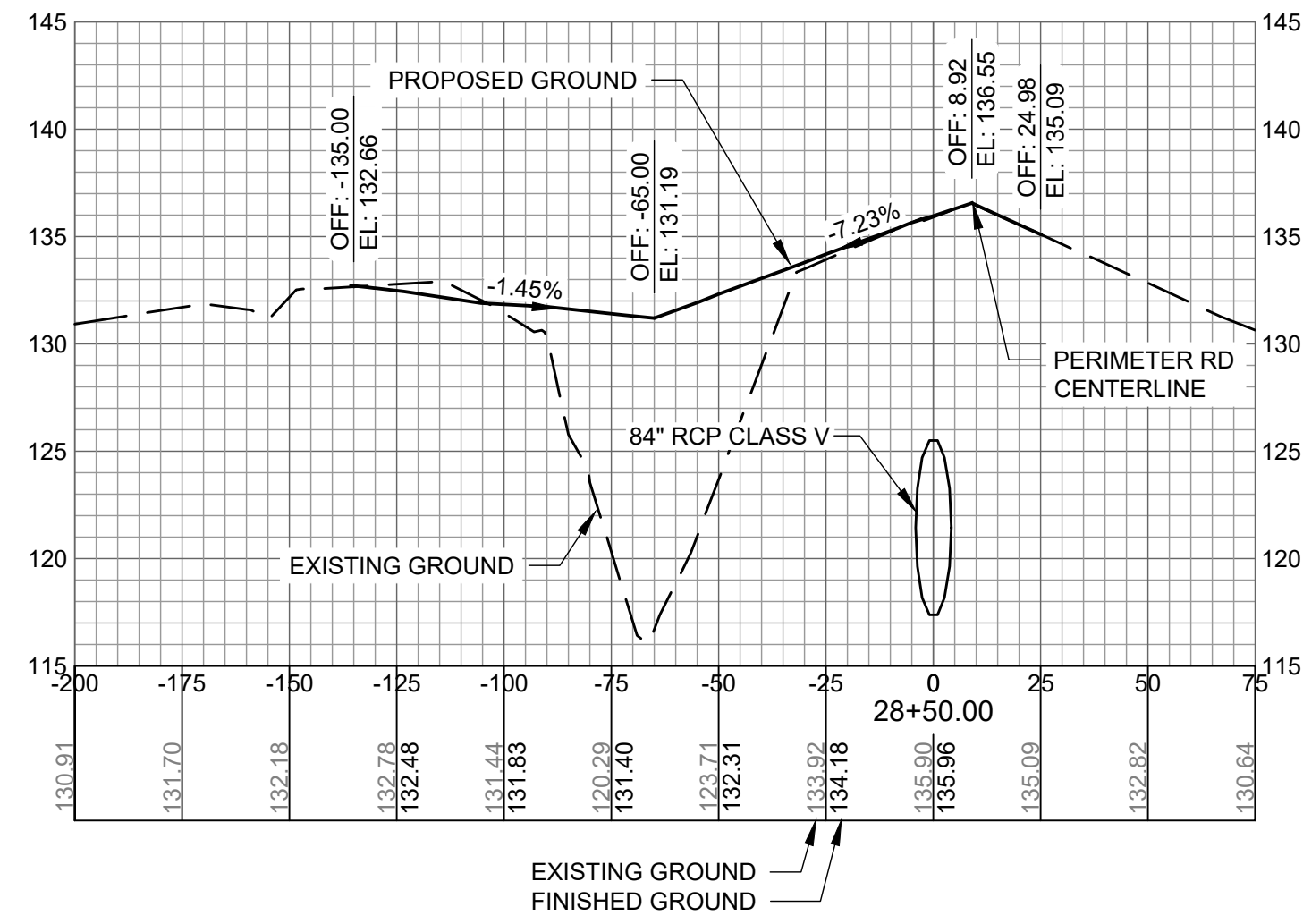
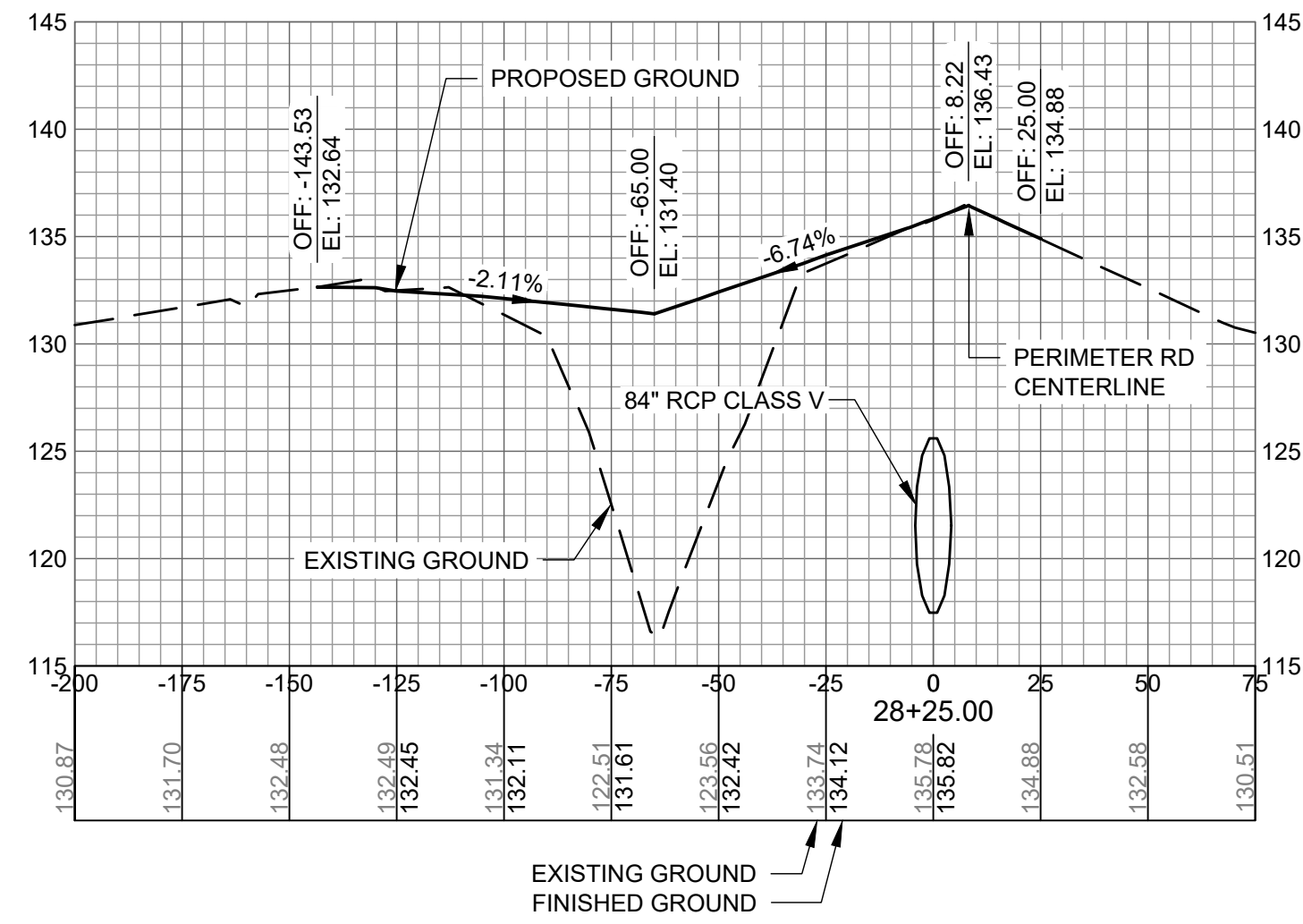
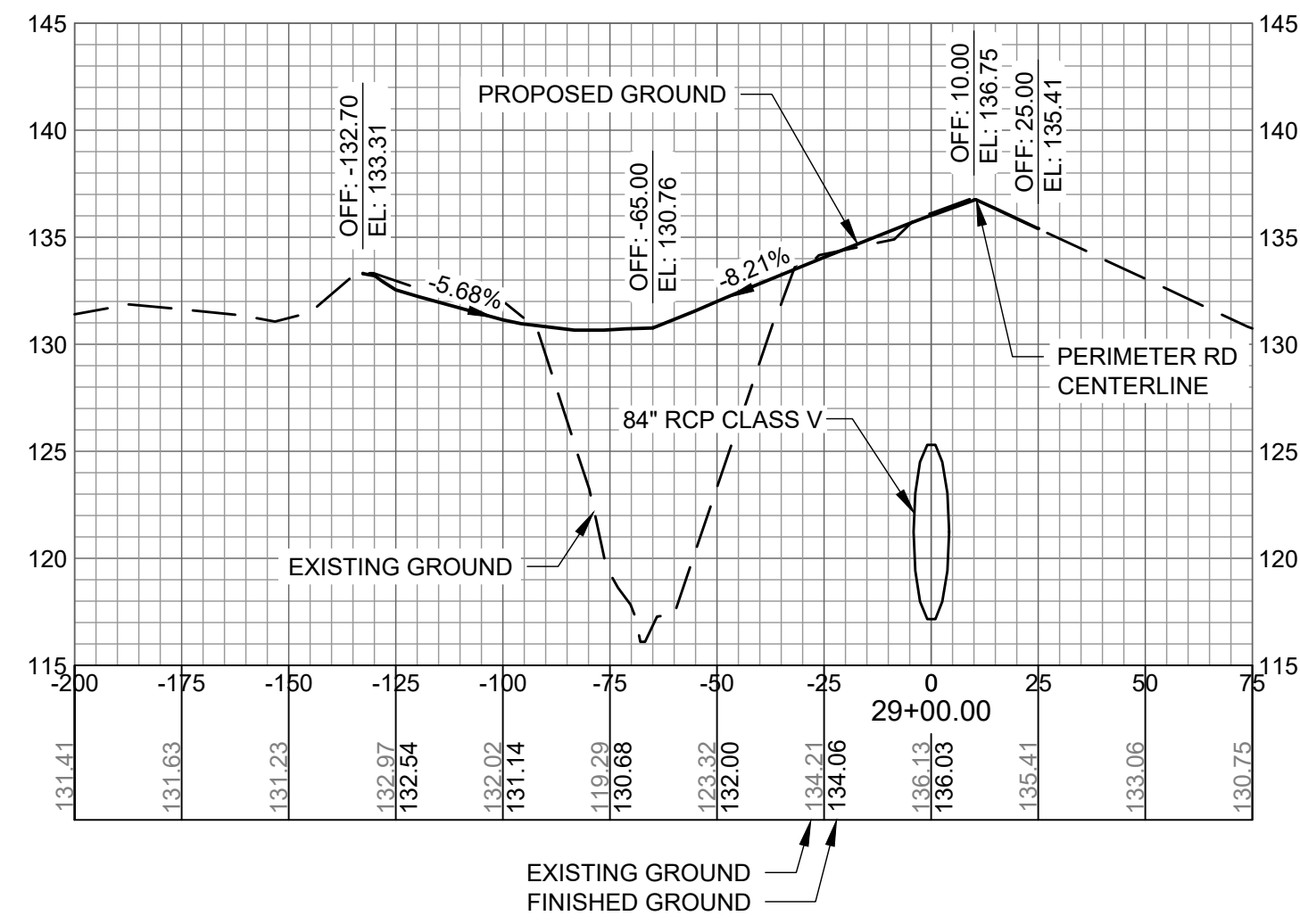
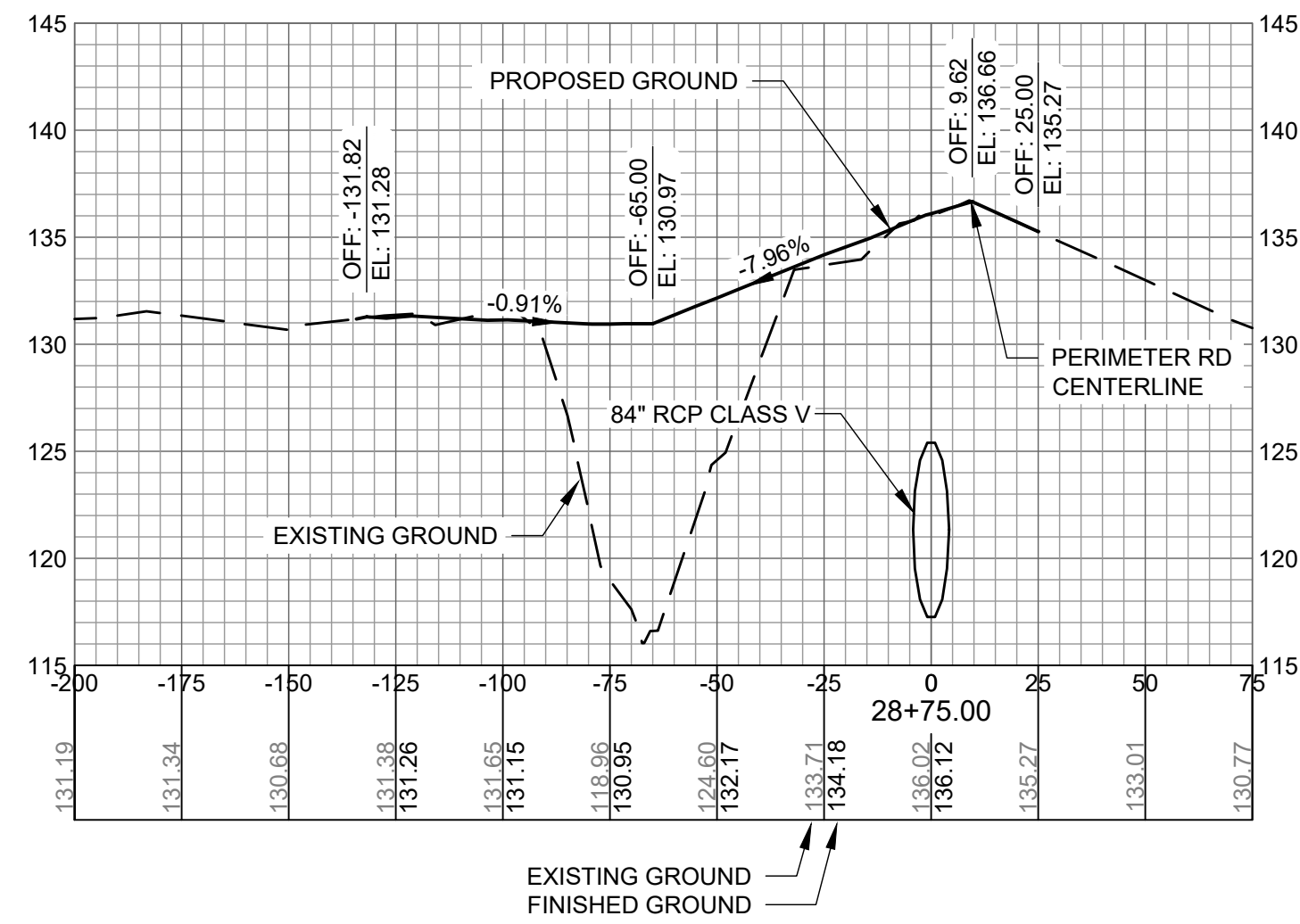
NOT FOR CONSTRUCTION

AGS:
M&H NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: NJH
DRAWN BY: NJH
CHECKED BY: EJS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
CROSS SECTIONS
27+75 TO 29+00

SHEET NO.

C-913



AUGUSTA REGIONAL AIRPORT SOUTHEAST DRAINAGE DITCH ENCLOSURE PH II 1501 AVIATION WAY AUGUSTA GA, 30906

ISSUED
ISSUED FOR BID

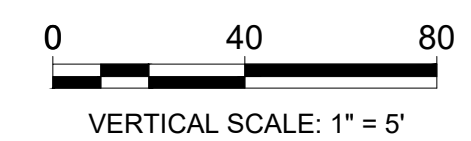
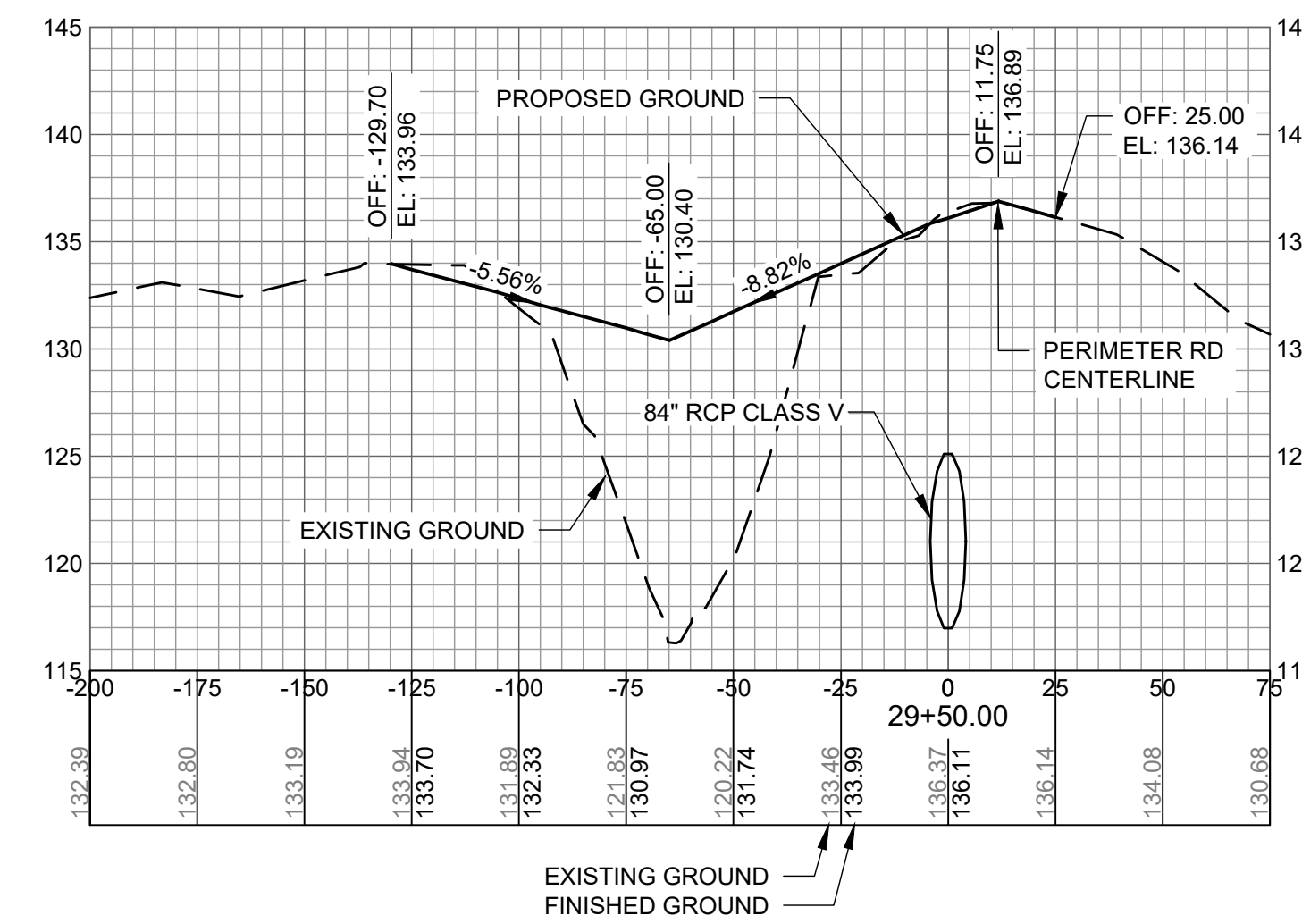
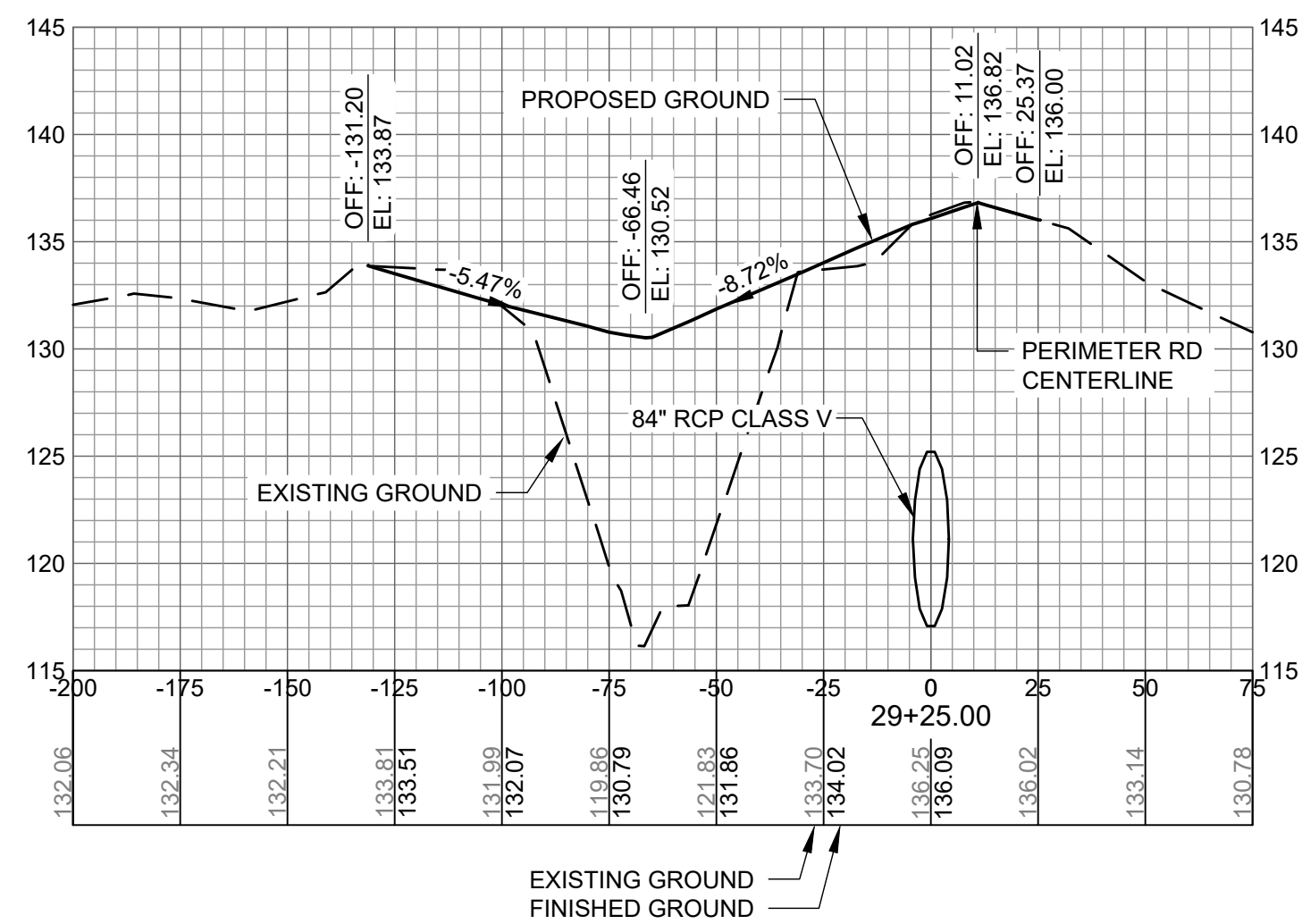
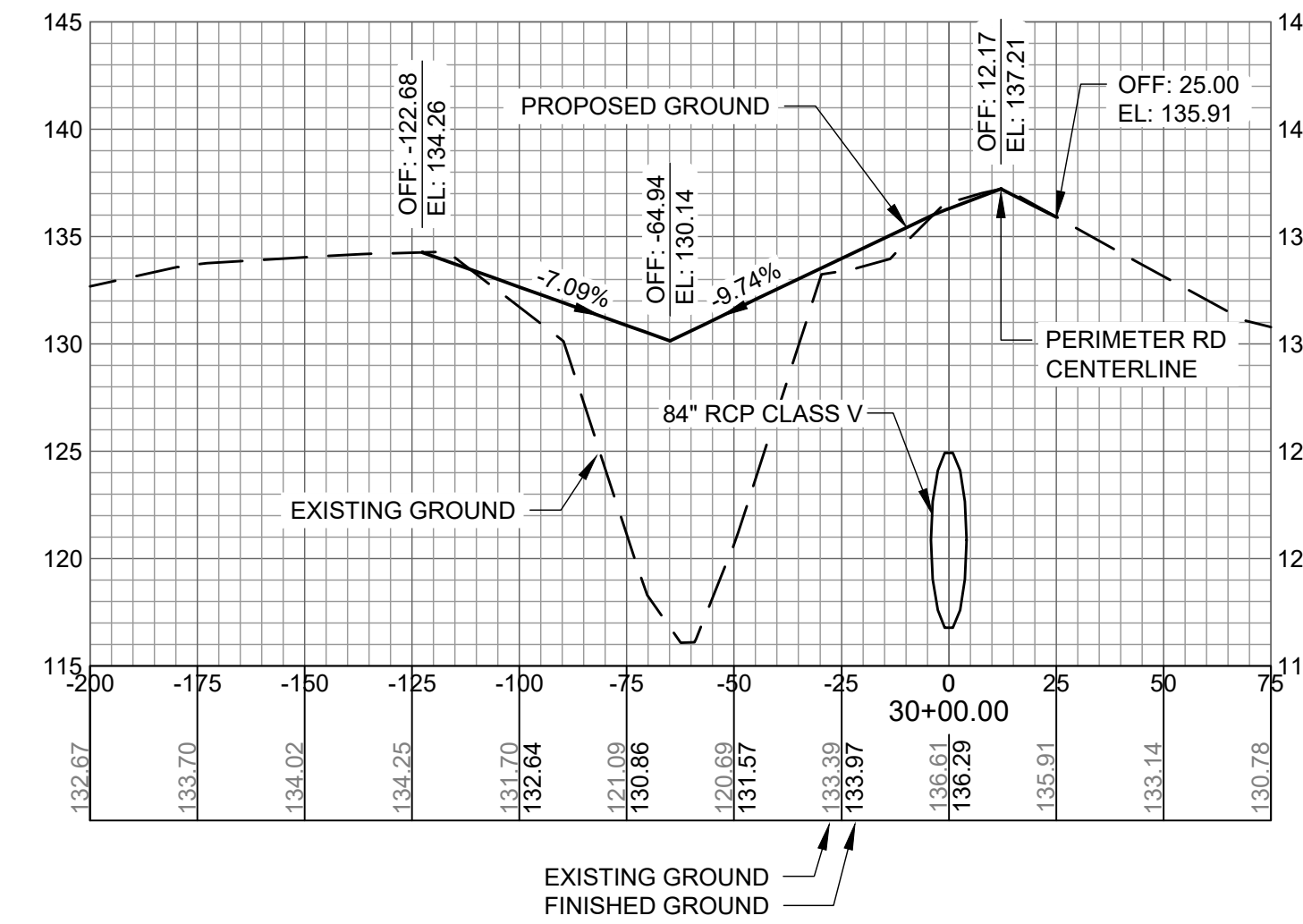
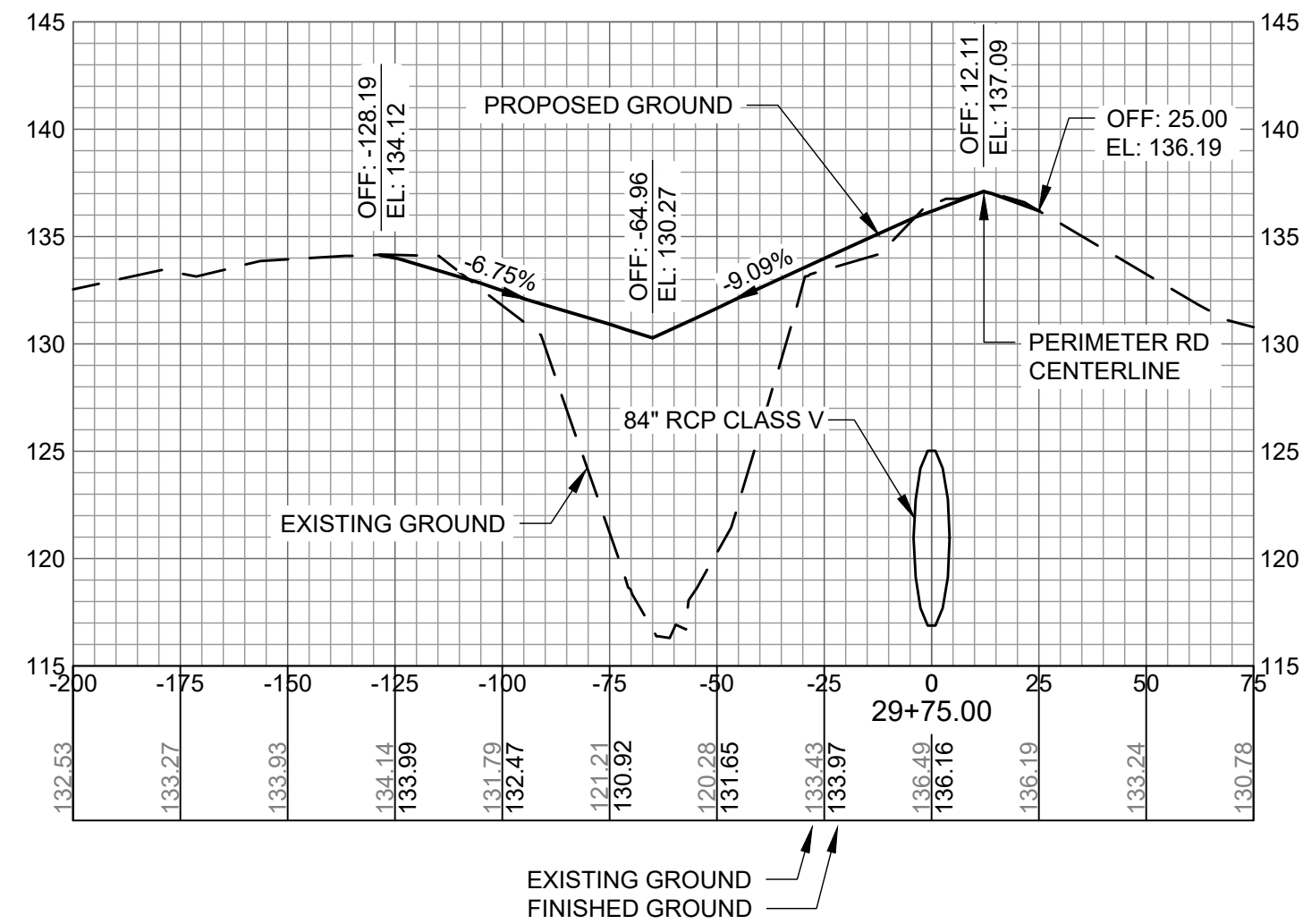
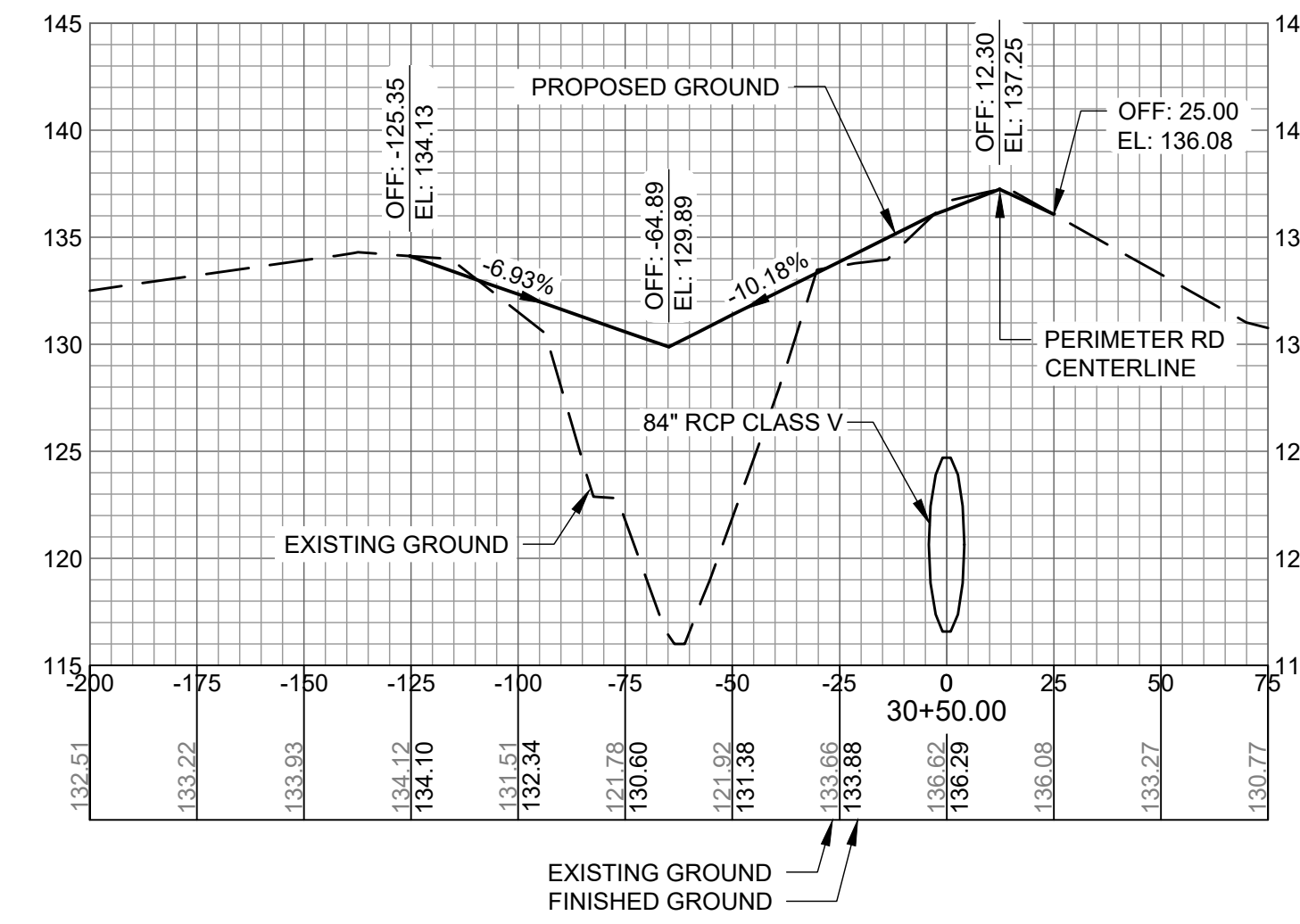
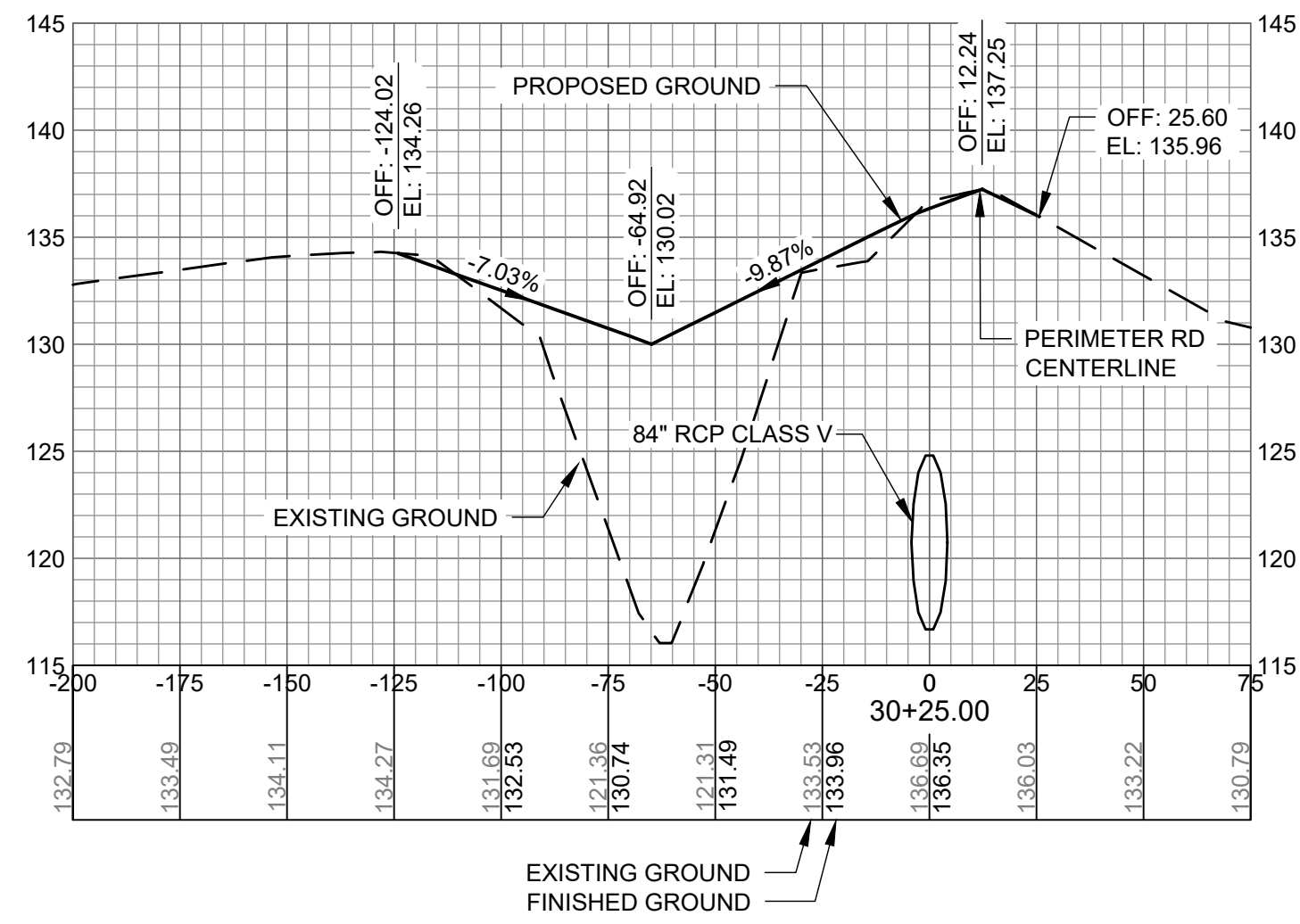
NOT FOR CONSTRUCTION

AGS
M&H NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: NJH
DRAWN BY: NJH
CHECKED BY: EJS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
CROSS SECTIONS
29+25 TO 30+50

SHEET NO.

C-914



AUGUSTA REGIONAL AIRPORT SOUTHEAST DRAINAGE DITCH ENCLOSURE PH II 1501 AVIATION WAY AUGUSTA GA, 30906

ISSUED
ISSUED FOR BID

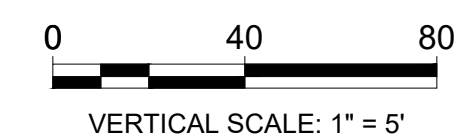
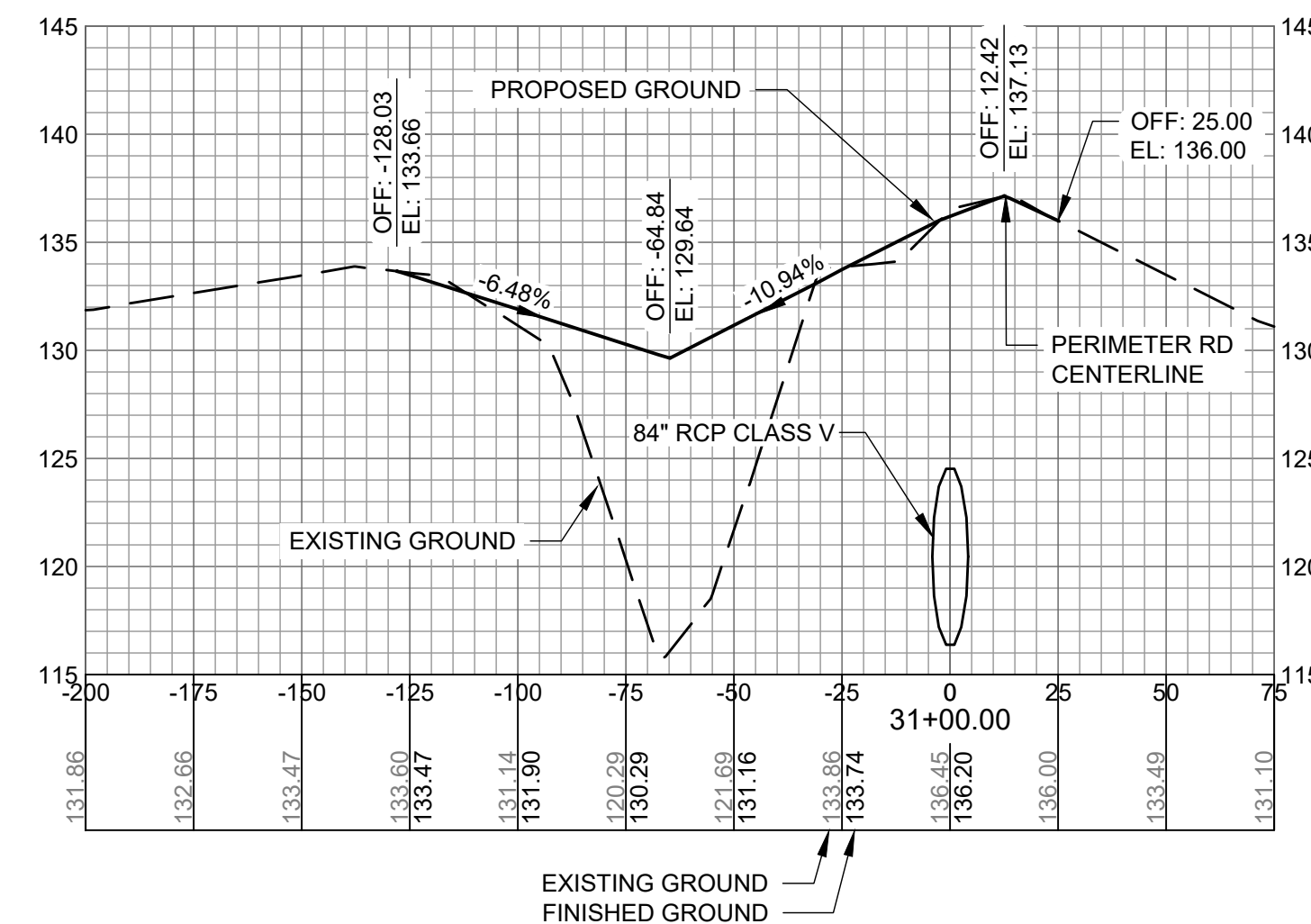
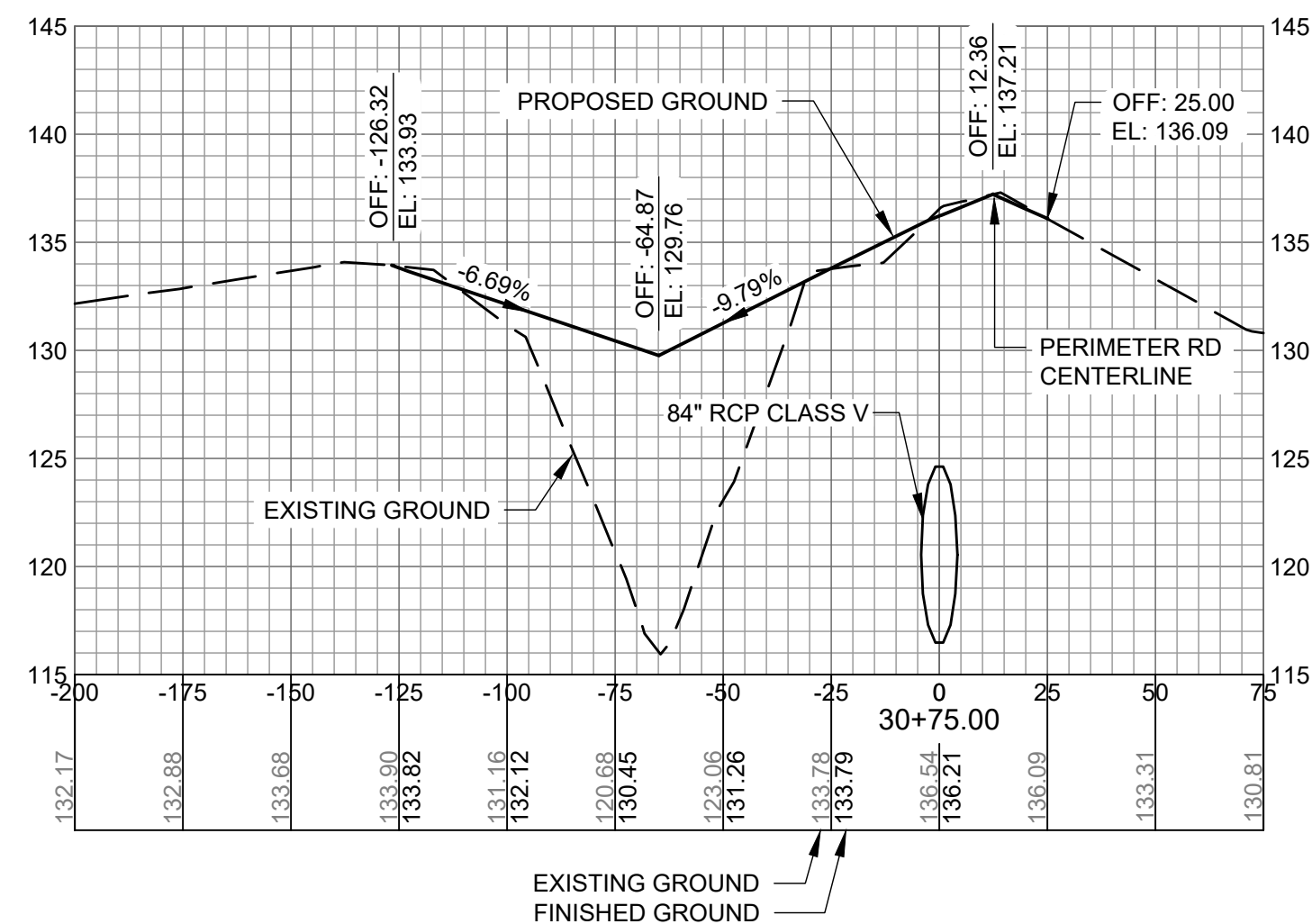
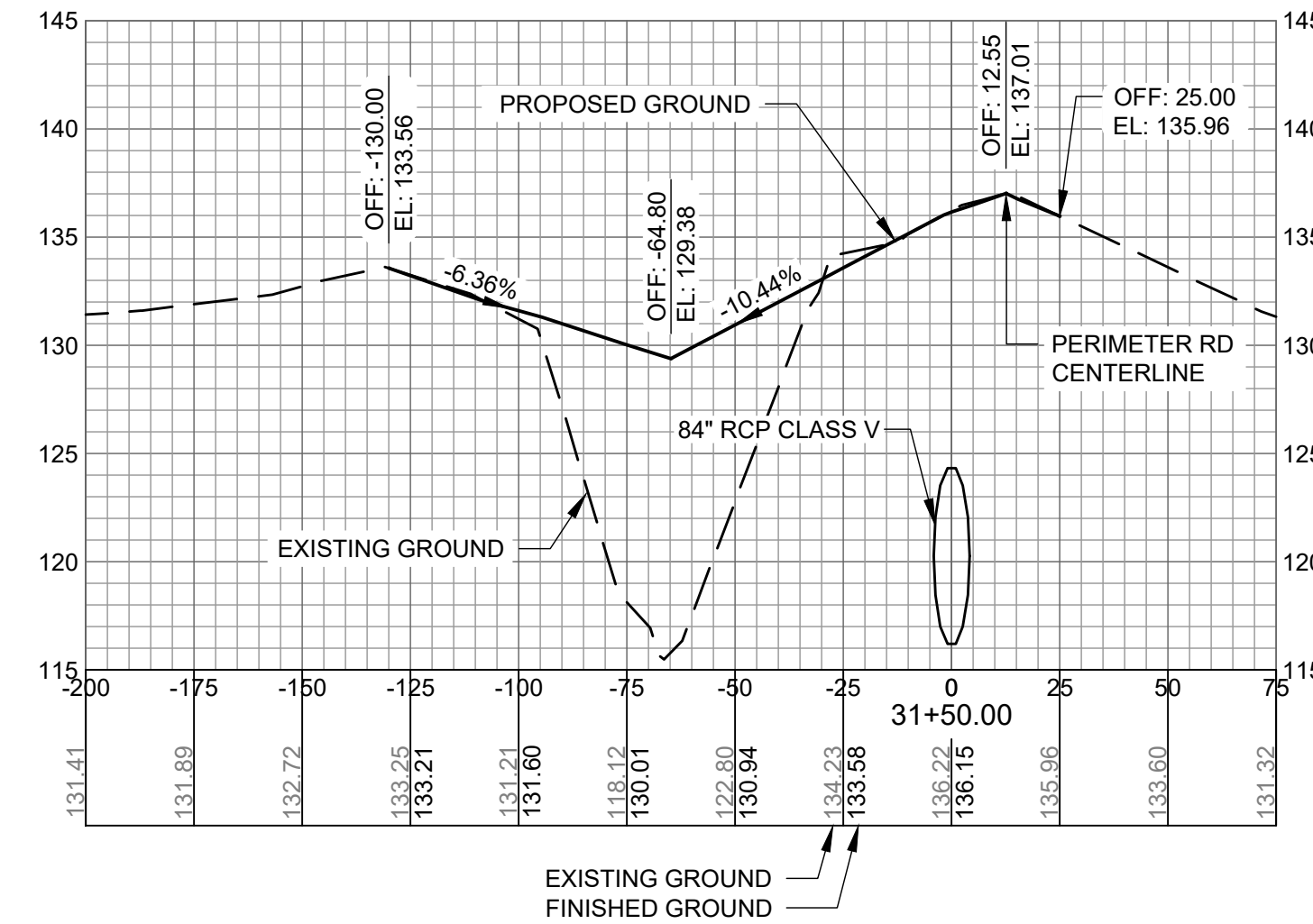
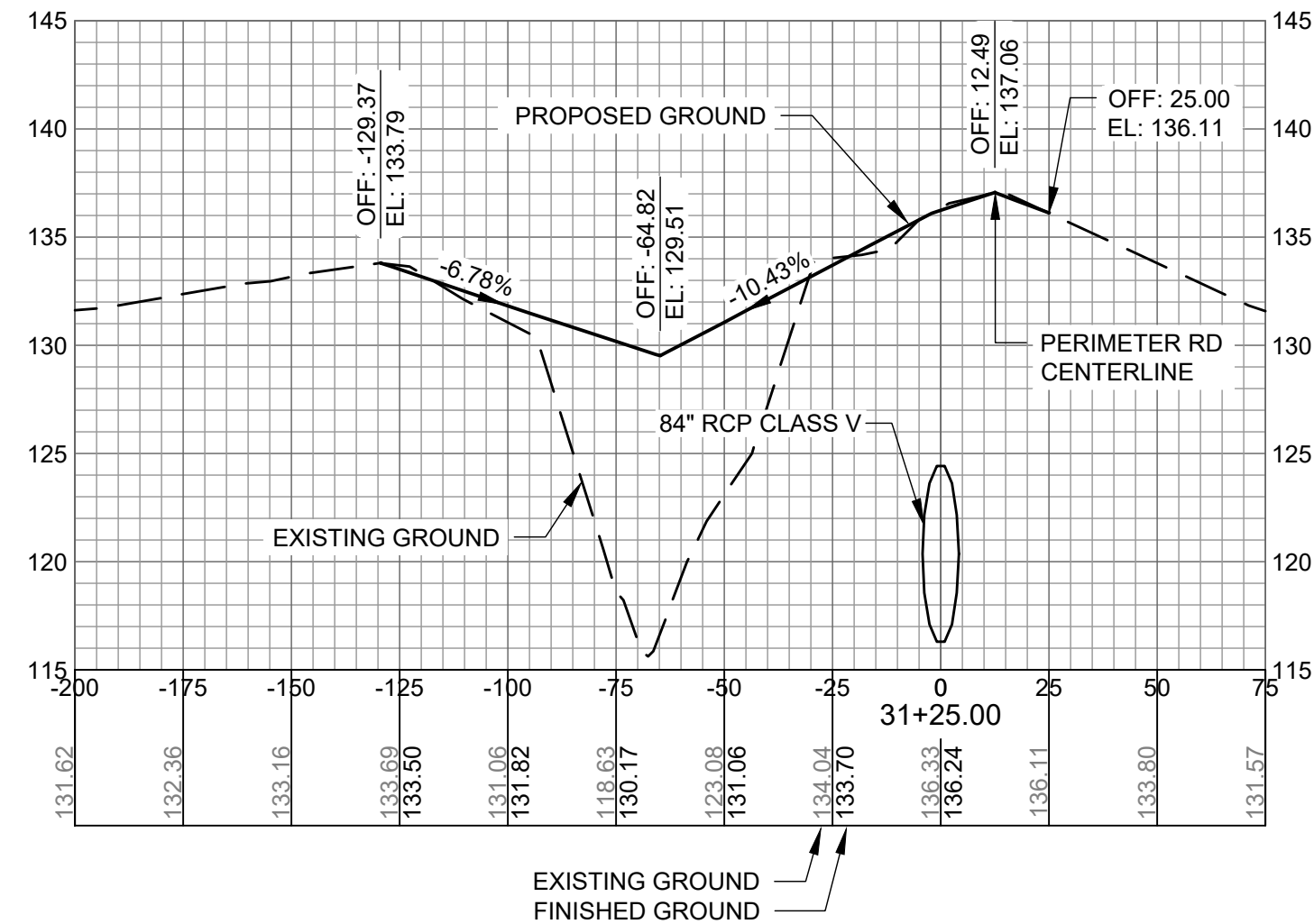
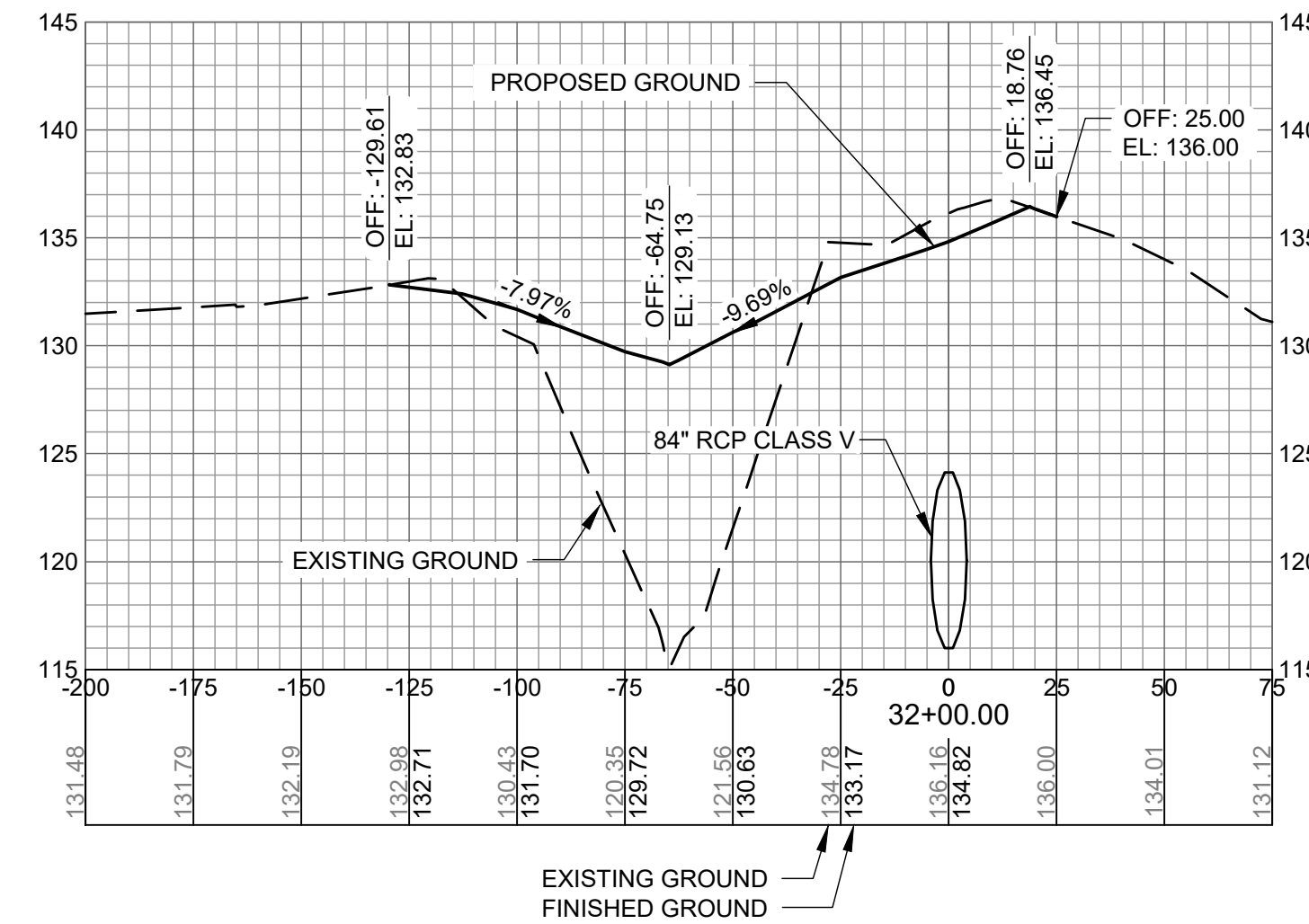
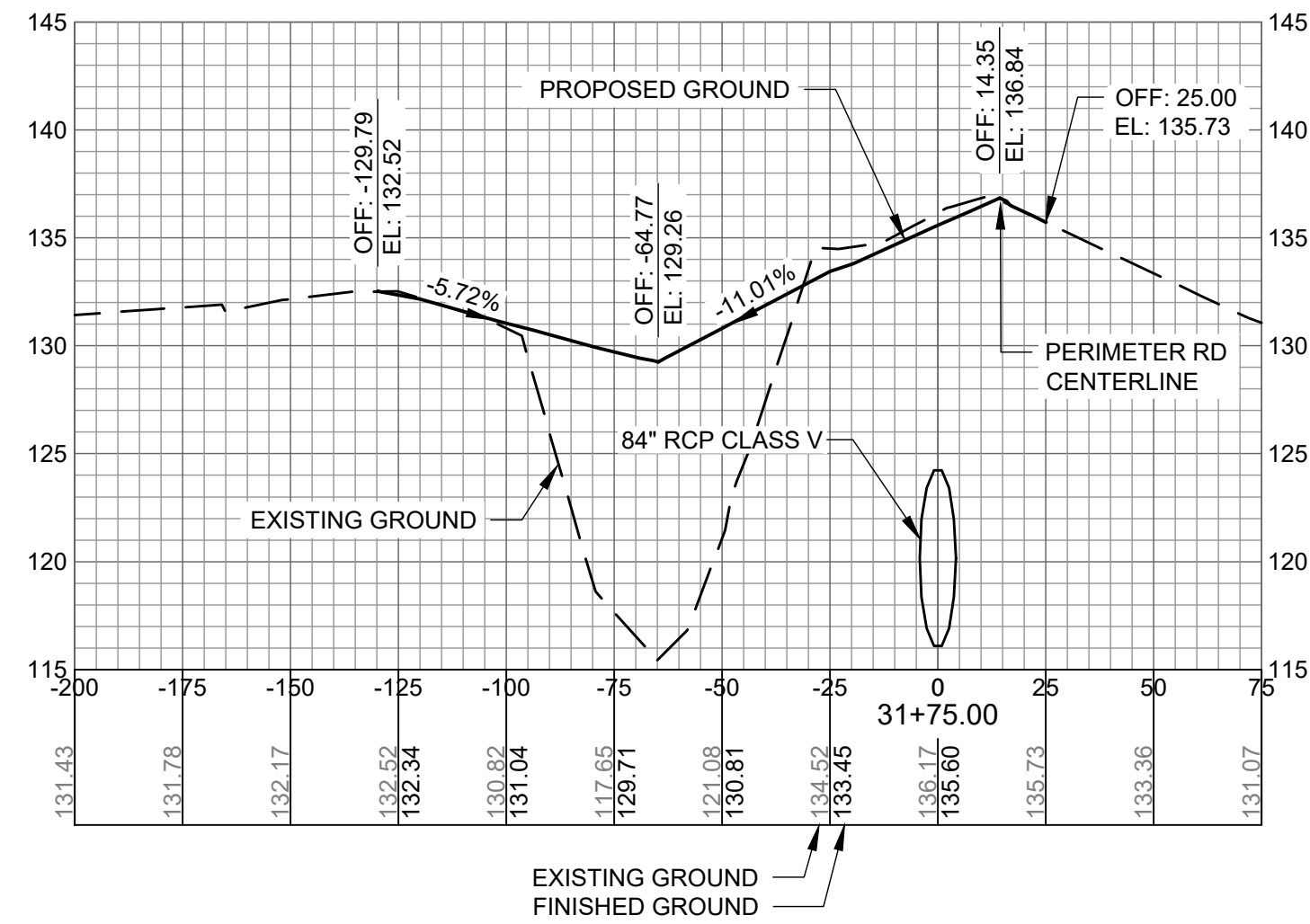
NOT FOR CONSTRUCTION

AGS
M&H NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: NJH
DRAWN BY: NJH
CHECKED BY: EJS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
CROSS SECTIONS
30+75 TO 32+00

SHEET NO.

C-915



AUGUSTA REGIONAL AIRPORT SOUTHEAST DRAINAGE DITCH ENCLOSURE PH II 1501 AVIATION WAY AUGUSTA GA, 30906

ISSUED
ISSUED FOR BID

NOT FOR CONSTRUCTION

AGS:
M&H NO.: 0119700-210463.01
DATE: OCTOBER 22, 2024
DESIGNED BY: NJH
DRAWN BY: NJH
CHECKED BY: EJS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
CROSS SECTIONS
32+25 TO 33+50

SHEET NO.

C-916

