

AUGUSTA REGIONAL AIRPORT

REHABILITATION OF STANDARD AERO RAMP

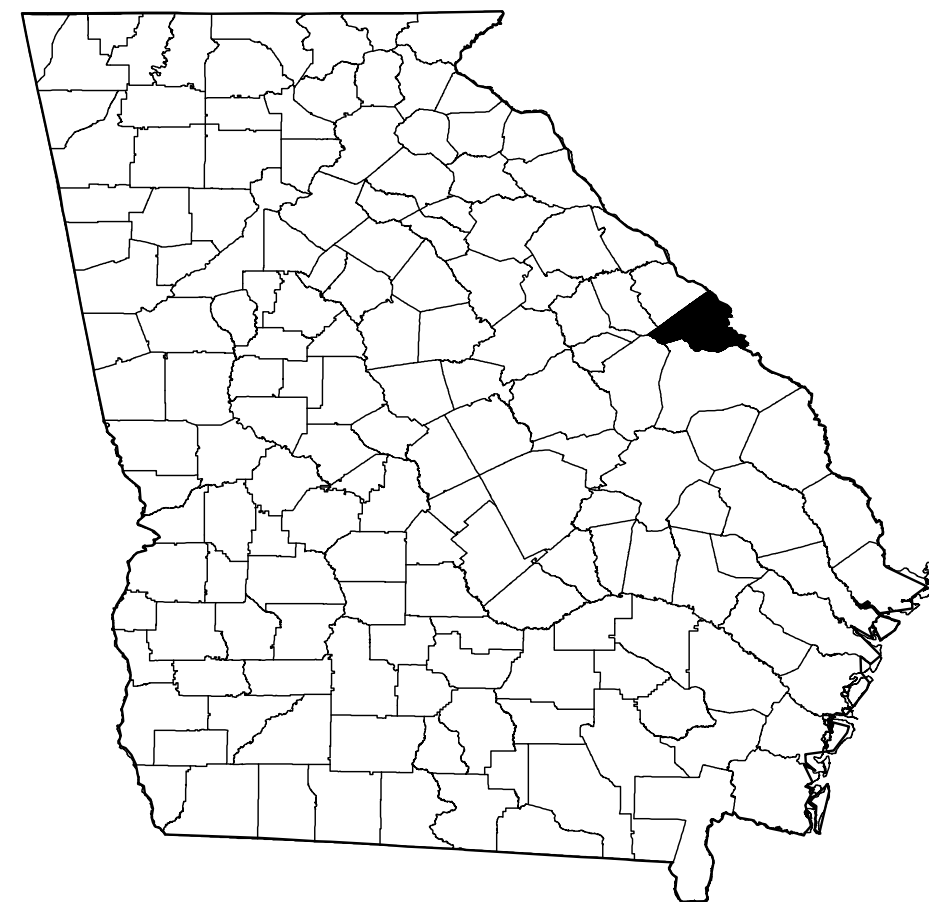
1501 AVIATION WAY

AUGUSTA, GA 30906-9620

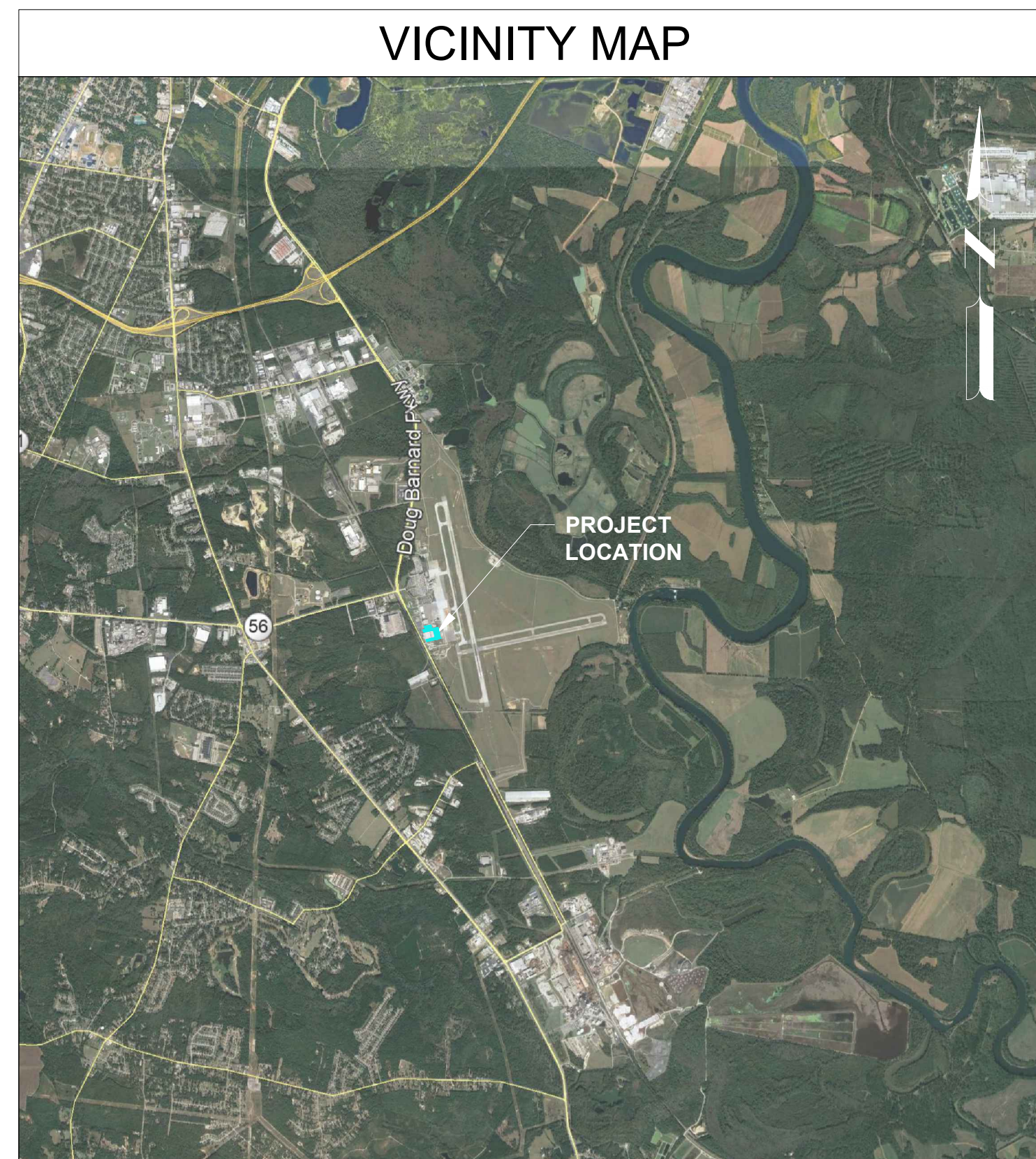
0119700-202062.01

APRIL 22, 2022

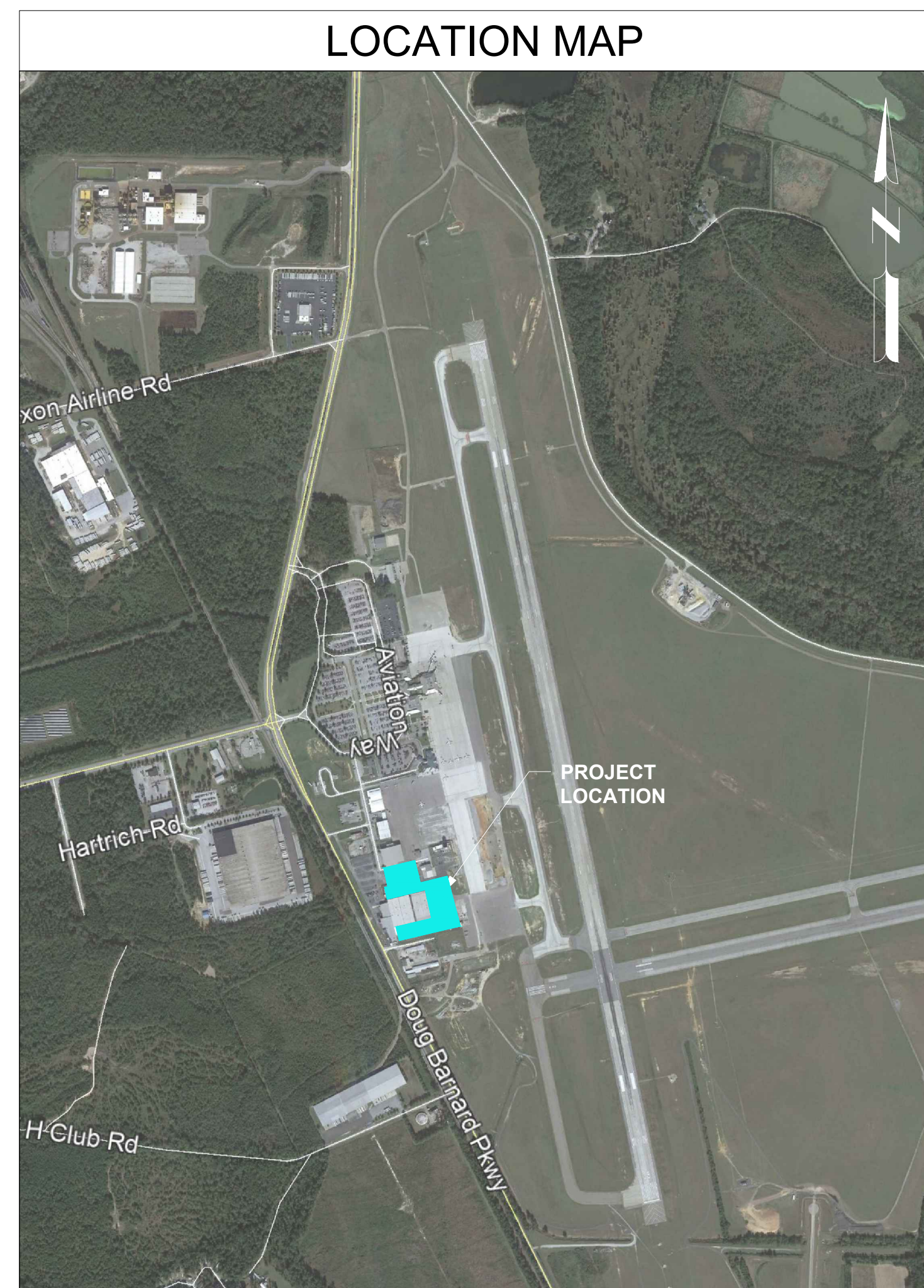
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RICHMOND COUNTY



VICINITY MAP



LOCATION MAP

Mead & Hunt

Mead and Hunt, Inc.
5955 Core Road, Suite 515
North Charleston, SC 29406
phone: 843-486-8330
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Augusta
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AUGUSTA REGIONAL AIRPORT
REHABILITATION OF STANDARD
AERO RAMP
1501 AVIATION WAY
AUGUSTA, GA 30906-9620

ISSUED
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NOT FOR CONSTRUCTION

CARES: 3-13-0011-045-2020
MSH NO: 0119700-202062.01
DATE: APRIL 22, 2022
DESIGNED BY: EJS
DRAWN BY: NJH
CHECKED BY: DES
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COVER SHEET

SHEET NO.

G-001



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G-002



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SHEET CONTENTS
LEGENDS &
ABBREVIATIONS

SHEET NO.
G-003

LEGEND AND ABBREVIATIONS

LEGEND:

- ANTENNA
- BENCHMARK
- BOLLARD
- CONTROL POINT
- CHISELED X
- CLEANOUT, SANITARY OR STORM
- DOWNSPOUT
- ELECTRICAL METER
- ELECTRICAL / COMMUNICATIONS PEDESTAL
- ELECTRICAL TRANSFORMER BOX
- ELECTRICAL SERVICE PANEL
- ELECTRICAL HANDHOLE/PULLBOX
- FIRE HYDRANT
- FLAGPOLE
- GAS METER
- GAS VALVE
- GATE
- GUY WIRE
- HANDHOLE, GENERIC
- INLET, CURB
- INLET, ROUND
- INLET, SQUARE
- IRON PIN
- LIGHT POLE (SINGLE)
- LIGHT POLE (DOUBLE)
- MAILBOX
- MANHOLE, ELECTRIC
- MANHOLE, FIBER OPTIC
- MANHOLE, SANITARY SEWER
- MANHOLE, STORM SEWER
- MANHOLE, TELECOMMUNICATIONS
- MANHOLE, VALVE
- MARKER, CABLE
- MARKER, DUCT
- PK or MAG NAIL
- POWER POLE
- POWER POLE, DOUBLE
- POWER POLE WITH LIGHT
- PVC PIPE
- REBAR
- SANITARY VALVE
- SATELLITE DISH
- SEPTIC TANK VENT
- SIGN (SINGLE POST)
- SIGN (DOUBLE POST)
- SOIL BORING
- SHRUB
- STORM FLARED END SECTION
- STUMP
- TREE, DECIDUOUS
- TREE, CONIFEROUS
- CTV PEDESTAL BOX
- WATER CURB STOP
- WATER VALVE
- WATER SHUT OFF
- WATER METER

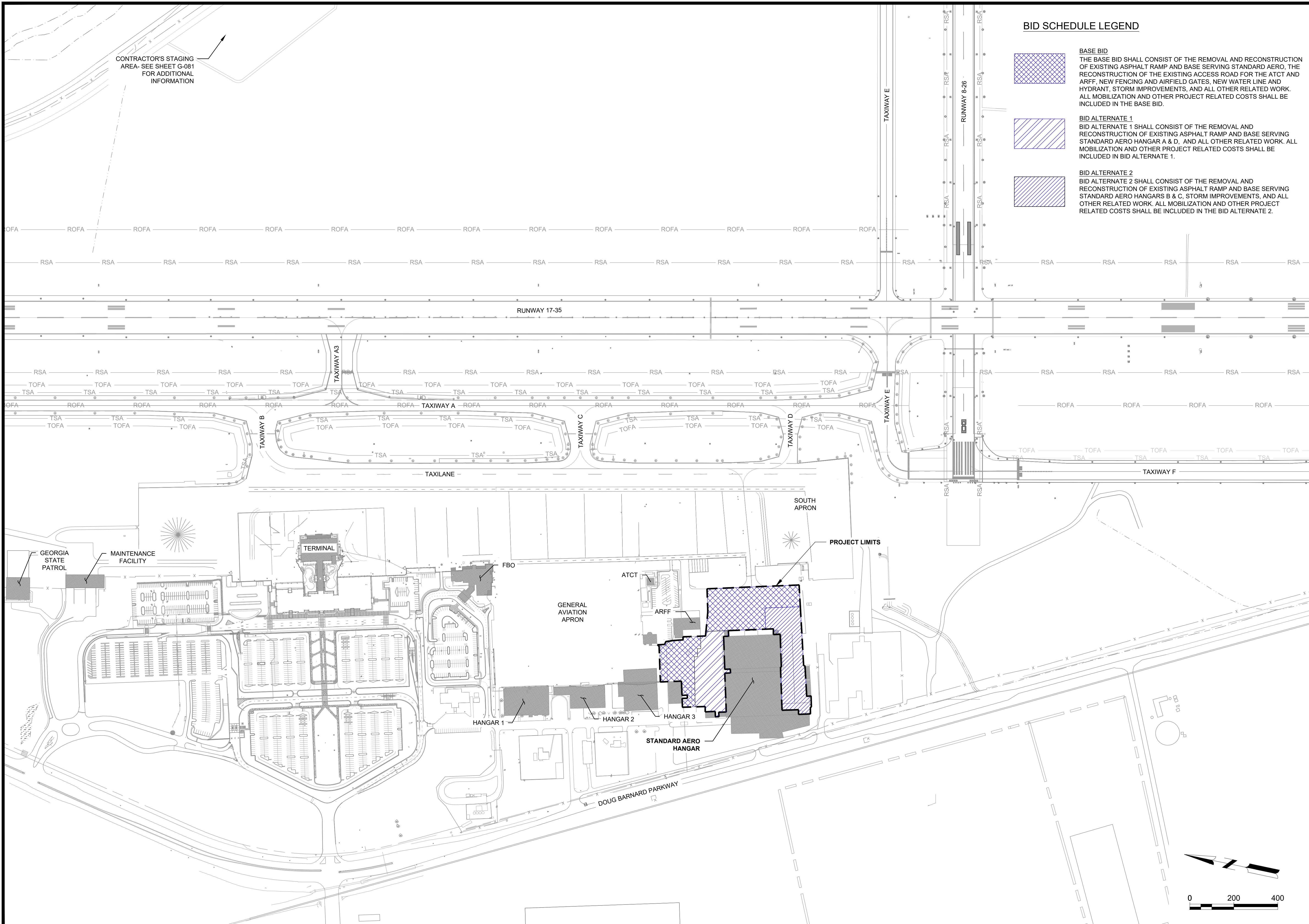
- WATER SURFACE
- WELL
- GAS
- ELECTRIC, OVERHEAD
- ELECTRIC, UNDERGROUND
- EXISTING CONTOUR LINES
- FENCE
- FIBER OPTIC CABLE
- HANDRAIL
- PROPERTY LINE
- SANITARY SEWER
- STONE RETAINING WALL
- STORM SEWER / CULVERT
- SWALE
- TELEPHONE
- TV CABLE
- WATER
- WETLAND BOUNDARY
- VEGETATION
- RIPRAP
- STANDING 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:

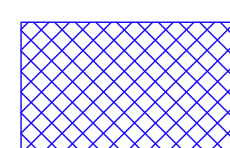
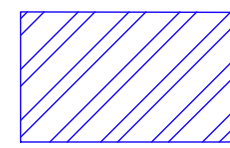
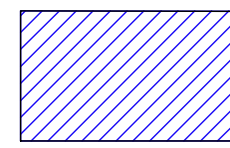
- A ABANDON
- AB AGGREGATE BASE
- A/C AIRCRAFT
- ABAND ABANDON
- AC ASPHALT CONCRETE
- ALCMS AIRFIELD LIGHTING CONTROL AND MONITORING SYSTEM
- ALT ALTERNATE
- AMSL ABOVE MEAN SEA LEVEL
- AOA AIRCRAFT OPERATIONS AREA
- APCH APPROACH
- APPROX APPROXIMATE
- ASB AGGREGATE SUB-BASE
- AR ACCESS ROAD
- ARFF AIRCRAFT RESCUE AND FIRE FIGHTING
- ATCT AIR TRAFFIC CONTROL TOWER
- AWG AMERICAN WIRE GAUGE
- BC BEGINNING OF CURVE
- BIT BITUMINOUS
- BLDG BUILDING
- BM BENCHMARK
- BOT BOTTOM
- BVC BEGINNING OF VERTICAL CURVE
- CA TEAM CONSTRUCTION ADMINISTRATION TEAM
- C-C CENTER TO CENTER
- CB CATCH BASIN
- CIPCP CAST IN-PLACE CONCRETE PIPE
- CJ CONSTRUCTION JOINT
- CFS CUBIC FEET PER SECOND
- CL CENTERLINE
- CLF CHAINLINK FENCE
- CLR CLEAR
- CMP CORRUGATED METAL PIPE
- CO CLEANOUT
- CONC CONCRETE
- CE CONCRETE ENCASED
- CONT CONTINUOUS
- CP CONTROL POINT
- CTB CEMENT TREATED BASE
- CKT CIRCUIT
- CSPP CONSTRUCTION SAFETY PHASING PLAN
- DB DIRECT BURIAL
- DEG DEGREE
- DI DROP INLET
- DIA DIAMETER
- DIM DIMENSION
- DIP DUCTILE IRON PIPE
- DP DEPTH
- (E) EXISTING
- E ELECTRICAL LINE
- EC END OF CURVE
- EG EXISTING GRADE
- ELEV ELEVATION
- EOP EDGE OF PAVEMENT
- EQ EQUAL
- EVC END OF VERTICAL CURVE
- ETR EXISTING TO REMAIN
- FAA FEDERAL AVIATION ADMINISTRATION
- FBO FIXED BASE OPERATOR
- FES FLARED END SECTION
- FF FINISHED FLOOR
- FG FINISHED GRADE
- FH FIRE HYDRANT
- FL FLOW LINE
- FOD FOREIGN OBJECT DEBRIS
- FPS FEET PER SECOND

- FT FEET
- G GAS LINE
- GAL GALLON
- GALV GALVANIZED
- GA MUTCD GEORGIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
- GB GRADE BREAK
- GND GROUND
- GPM GALLONS PER MINUTE
- GPSP GENERAL PERRY SMITH PARKWAY
- GS GLIDE SLOPE
- HH HANDHOLE
- H HEIGHT
- HDPE HIGH DENSITY POLYETHYLENE
- HIRL HIGH INTENSITY RUNWAY LIGHT
- HIR:THL HIGH INTENSITY THRESHOLD LIGHT
- HORIZ HORIZONTAL
- HMA HOT MIX ASPHALT
- HP HIGH POINT
- HW HEADWALL
- HWL HIGH WATER LEVEL
- HWY HIGHWAY
- IE INVERT ELEVATION
- IFR INSTRUMENT FLIGHT RULES
- ILS INSTRUMENT LANDING SYSTEM
- IN INCHES
- IP IN-PAVEMENT
- L LENGTH
- LBS POUNDS
- LF LINEAL FEET
- LOC LOCALIZER
- LWL LOW WATER LEVEL
- 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 NO
- (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
- OWS OIL WATER SEPARATOR
- PAPI PRECISION APPROACH PATH INDICATOR
- PR PAIR
- PB PULL BOX
- PC POINT OF CURVATURE
- PCC PORTLAND CEMENT CONCRETE
- PCF POUNDS PER CUBIC FOOT
- PERF PERFORATED
- PI POINT OF INTERSECTION
- POB POINT OF BEGINNING
- POC POINT OF CURVE
- POE POINT OF ENDING

- PSI POUNDS PER SQUARE INCH
- PSF POUNDS PER SQUARE FOOT
- PT POINT OF TANGENCY
- PVC POINT OF VERTICAL CURVE
- PVC POLYVINYL CHLORIDE
- PVI POINT OF VERTICAL INTERSECTION
- PVT POINT OF VERTICAL TANGENCY
- 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
- RGL RUNWAY GUARD LIGHT
- RSA RUNWAY SAFETY AREA
- RWA RUNWAY WORK RESTRICTED AREA
- RWAPP RUNWAY APPROACH LIGHT
- RWY OR RW RUNWAY
- S SANITARY LINE
- SF SQUARE FOOT
- SG STRAIGHT GRADE
- SH SHOULDER
- SIDA SECURITY IDENTIFICATION DISPLAY AREA
- SMGS SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM
- SPCD SAFETY PLAN COMPLIANCE DOCUMENT
- SS STAINLESS STEEL
- ST STORM LINE
- STA STATION
- STD STANDARD
- STL STEEL
- T TELEPHONE LINE
- TC TOP OF CURB
- TG TOP OF GRATE
- T/L TAXILINE
- TOE TOE OF BANK
- TOP TOP OF BANK
- TDZ TOUCHDOWN ZONE
- TWY TAXIWAY
- TOFA TAXIWAY OBJECT FREE AREA
- TSA TAXIWAY SAFETY AREA
- TYP TYPICAL
- UD UNDERDRAIN
- OFA OBJECT FREE AREA
- UFN UNTIL FURTHER NOTICE
- UG UNDERGROUND
- UON UNLESS OTHERWISE NOTED
- V VELOCITY
- VC VERTICAL CURVE
- VERT VERTICAL
- VFR VISUAL FLIGHT RULES
- VG VALLEY GUTTER
- 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



BID SCHEDULE LEGEND

- 
BASE BID
 THE BASE BID SHALL CONSIST OF THE REMOVAL AND RECONSTRUCTION OF EXISTING ASPHALT RAMP AND BASE SERVING STANDARD AERO, THE RECONSTRUCTION OF THE EXISTING ACCESS ROAD FOR THE ATCT AND ARFF, NEW FENCING AND AIRFIELD GATES, NEW WATER LINE AND HYDRANT, STORM IMPROVEMENTS, AND ALL OTHER RELATED WORK. ALL MOBILIZATION AND OTHER PROJECT RELATED COSTS SHALL BE INCLUDED IN THE BASE BID.
- 
BID ALTERNATE 1
 BID ALTERNATE 1 SHALL CONSIST OF THE REMOVAL AND RECONSTRUCTION OF EXISTING ASPHALT RAMP AND BASE SERVING STANDARD AERO HANGAR A & D, AND ALL OTHER RELATED WORK. ALL MOBILIZATION AND OTHER PROJECT RELATED COSTS SHALL BE INCLUDED IN BID ALTERNATE 1.
- 
BID ALTERNATE 2
 BID ALTERNATE 2 SHALL CONSIST OF THE REMOVAL AND RECONSTRUCTION OF EXISTING ASPHALT RAMP AND BASE SERVING STANDARD AERO HANGARS B & C, STORM IMPROVEMENTS, AND ALL OTHER RELATED WORK. ALL MOBILIZATION AND OTHER PROJECT RELATED COSTS SHALL BE INCLUDED IN THE BID ALTERNATE 2.

CONTRACTOR'S STAGING AREA- SEE SHEET G-081 FOR ADDITIONAL INFORMATION

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



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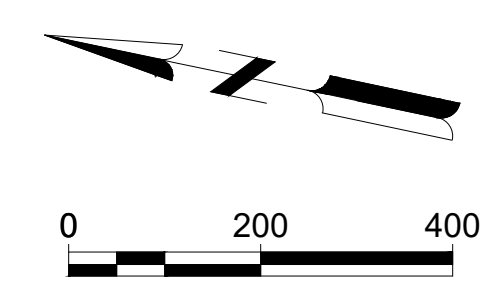
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SHEET CONTENTS
 PROJECT LAYOUT PLAN

SHEET NO.

G-021



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


G-031



NOTES:

1. 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 OPERATION 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.

LEGEND:

-  CONTROL POINT
-  BENCHMARK
-  IRON PIN
-  PK or MAG NAIL
-  REBAR
-  SECTION
-  SECTION QUARTER CORNER
-  SECTION CORNER HALF
-  PROPERTY LINE
-  RIGHT OF WAY

SURVEY DATA:

12/19/2017
 SURVEY DATE(S) 2/12/2018
 10/15/2020
 COORDINATE SYSTEM USGS NAD 83
 VERTICAL DATUM USGS NAVD 88
 CONTROL SOURCE SEE TABLE
 SURVEY UNITS US SURVEY FOOT

POINT	LOCAL PROJECTION		NAVD88 ELEVATION	DESCRIPTION
	NORTHING	EASTING		
500	1225860.17	717712.07	134.35	SACS (FAA AGS ARP 2)
501	1222563.63	717591.46	134.26	RUNWAY 35 END COORDINATE
502	1230392.10	715942.18	145.35	RUNWAY 17 END COORDINATE
4	1224939.31	716282.65	132.91	CONTROL POINT
5	1225943.53	716221.90	134.57	CONTROL POINT
6	1225455.57	716315.43	133.67	CONTROL POINT
26	1225037.07	715079.42	136.22	CONTROL POINT
40011	1225546.51	715093.06	136.19	CONTROL POINT
40005	1224977.99	715318.79	136.45	CONTROL POINT

SITE SURVEY PLAN NOTES:

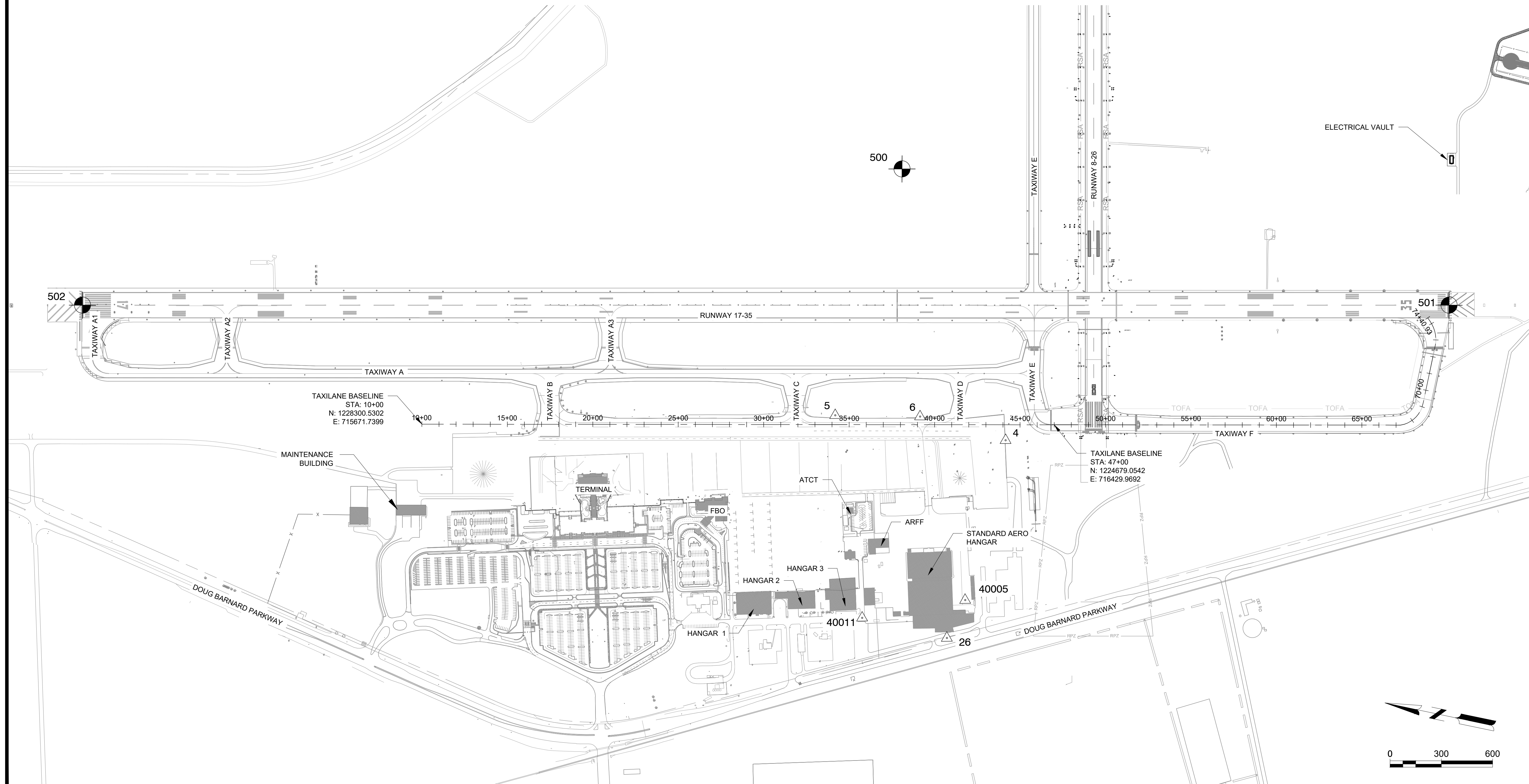
1. PRIVATE SUBSURFACE UTILITY LOCATIONS SHOWN HEREON ARE BASED UPON GROUND MARKINGS PLACED BY CLIENT REPRESENTATIVE. MARKINGS MAY NOT BE BY BENEFIT OF SUBSURFACE DETECTING INSTRUMENTS AS SOME WERE MARKED PER PERSONNEL BEST RECOLLECTION.
2. PUBLIC SUBSURFACE UTILITY LOCATIONS SHOWN HEREON ARE BASED UPON 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.
3. 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.
4. 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.

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G-041

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AERO RAMP
1501 AVIATION WAY
AUGUSTA, GA 30906-9620**

ISSUED
ISSUED FOR BID

NOT FOR CONSTRUCTION

CARES: 3-13-0011-045-2020
MSH NO.: 0119700-202062.01
DATE: APRIL 22, 2022
DESIGNED BY: EJS
DRAWN BY: NJH
CHECKED BY: DES
DO NOT SCALE DRAWINGS

SHEET CONTENTS
PROJECT QUANTITY
TABLES

SHEET NO.

G-061

SUMMARY OF QUANTITIES			
SPEC.	ITEM	UNIT	QUANTITY
BASE BID- REHABILITATION OF STANDARD AERO RAMP			
C-100.1	Contractor Quality Control Program	LS	1
C-102.1a	Installation and Removal of Silt Fence or Silt Sock	LF	796
C-102.1b	Construct, Maintain, and Remove Inlet Sediment Trap	EA	3
C-102.1c	Construct, Maintain, and Remove Excavated Inlet Sediment Trap	EA	1
C-102.1d	Installation and Removal of Check Dam Hay Bale	EA	51
C-102.1e	Construct, Maintain, and Remove Construction Exit	EA	1
C-102.1f	Erosion Control Mobilization	LS	1
C-102.1g	Emergency Erosion Control Mobilization	LS	1
C-105.1	Mobilization, Cleanup, and Demobilization	LS	1
C-105.2	Airfield Safety and Traffic Control	LS	1
P-101.1	Asphalt Concrete Pavement Removal, Full Depth, Off Site	SY	11687
P-101.2	Asphalt Pavement Milling (4")	SY	529
P-101.3	Remove Existing Sidewalk	SY	20
P-101.4	PCC Pavement Removal, Dispose Off Site	SY	41
P-101.5	Removal of Pipe and Other Buried Structures	EA	2
P-101.6	Remove Existing Trench Drain	LF	411
P-152.1	Unclassified Excavation/Disspose Off-Site	CY	2727
P-152.2	Subgrade Preparation	SY	12216
P-152.3	Unsuitable/Over Excavation	CY	100
P-209.1	Crushed Agreegate Base Course 10"	CY	3246
P-401.1	Asphalt Concrete Surface Course	TON	1328
P-403.1	Asphalt Concrete Leveling Course	TON	1328
P-602.1	Emulsified Asphalt Prime Coat	Gal	1169
P-603.1	Emulsified Asphalt Tack Coat	Gal	584
P-620.1	Temporary Pavement Markings	SF	414
P-620.2	Permanent Pavement Markings	SF	414
F-162.1	Remove Airfield Perimeter Fence (Chain Link)	LF	350
F-162.2	Install New Airfield Perimeter Fence (Chain Link)	LF	350
F-162.3	Install Vehicle Swing Gate	EA	2
D-701.1	Concrete Sewer Pipe, 15-inch, Class V	LF	33
D-702.1	8" Trench Drain (Grate and Pipe)	LF	195
D-702.2	15" Trench Drain (Grate and Pipe)	LF	204
D-751.1	Aircraft Rated Manhole and Cover	EA	2
D-751.2	Aircraft Rated Manhole Covers	EA	1
D-751.4	Connect Storm to Existing Manhole	EA	1
D-751.6	Adjust Storm Manhole to Grade	EA	1
331000.1a	6" Restrained Joint, Ductile Iron Pipe	LF	596
331000.1b	6" Restrained Joint, eDuctile Iron Pipe, 22.5 Degree	EA	3
331000.1c	6" Restrained Joint, eDuctile Iron Pipe, 90 Degree	EA	1
331000.1d	Fire Hydrant Assembly - Pipe, Extensions, Valves, Stone (Complete)	EA	1
331000.1e	6"x6" Tapping Sleeve and Valve	EA	1
333000	1000 Gallon Oil/Water Separator (Complete)	EA	1.00
T-901.1	Seeding, Staging Area	AC	5.00
T-901.2	Temporary Seeding	AC	0.25
T-901.3	Permanent Seeding	AC	0.25
T-905.1	Topsoiling, Staging Area	CY	2762

SUMMARY OF QUANTITIES			
SPEC.	ITEM	UNIT	QUANTITY
BID ALT 1 - REHABILITATION OF STANDARD AERO RAMP			
C-100.1	Contractor Quality Control Program	LS	1
C-102.1a	Installation and Removal of Silt Fence or Silt Sock	LF	796
C-102.1b	Construct, Maintain, and Remove Inlet Sediment Trap	EA	3
C-102.1c	Construct, Maintain, and Remove Excavated Inlet Sediment Trap	EA	1
C-102.1d	Installation and Removal of Check Dam Hay Bale	LS	51
C-102.1e	Construct, Maintain, and Remove Construction Exit	LS	1
C-102.1f	Erosion Control Mobilization	LS	1
C-102.1g	Emergency Erosion Control Mobilization	LS	1
C-105.1	Mobilization, Cleanup, and Demobilization	LS	1
C-105.2	Airfield Safety and Traffic Control	LS	1
P-101.1	Asphaltic Concrete Pavement Removal, Full Depth, Off Site	SY	4304
P-152.1	Unclassified Excavation/ Disspose Off-Site	CY	1022
P-152.2	Subgrade Preparation	SY	4304
P-152.3	Unsuitable/Over Excavation	CY	100
P-209.1	Crushed Agreegate Base Course 10"	CY	1195
P-401.1	Asphalt Concrete Surface Course	TON	468
P-403.1	Asphalt Concrete Leveling Course	TON	468
P-602.1	Emulsified Asphalt Prime Coat	Gal	430
P-603.1	Emulsified Asphalt Tack Coat	Gal	215
P-620.1	Temporary Pavement Markings	SF	18
P-620.2	Permanent Pavement Markings	SF	18
F-162.1	Remove Airfield Perimeter Fence (Chain Link)	LF	350
F-162.2	Install New Airfield Perimeter Fence (Chain Link)	LF	350
F-162.3	Remove Vehicle Swing Gate	EA	2
T-901.1	Seeding, Staging Area	AC	5
T-901.2	Temporary Seeding	AC	0.25
T-901.3	Permanent Seeding	AC	0.25
T-905.1	Topsoiling, Staging Area	CY	2762

NOTE: SUMMARY OF QUANTITIES TABLES ARE 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 TABLES.

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**PROJECT QUANTITY
 TABLES**

SHEET NO.

G-062

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SUMMARY OF QUANTITIES			
SPEC.	ITEM	UNIT	QUANTITY
BID ALT 2- REHABILITATION OF STANDARD AERO RAMP			
C-100.1	Contractor Quality Control Program	LS	1
C-102.1a	Installation and Removal of Silt Fence or Silt Sock	LF	796
C-102.1b	Construct, Maintain, and Remove Inlet Sediment Trap	EA	3
C-102.1c	Construct, Maintain, and Remove Excavated Inlet Sediment Trap	EA	1
C-102.1d	Installation and Removal of Check Dam Hay Bale	LS	51
C-102.1e	Construct, Maintain, and Remove Construction Exit	LS	1
C-102.1f	Erosion Control Mobilization	LS	1
C-102.1g	Emergency Erosion Control Mobilization	LS	1
C-105.1	Mobilization, Cleanup, and Demobilization	LS	1
C-105.2	Airfield Safety and Traffic Control	LS	1
P-101.1	Asphaltic Concrete Pavement Removal, Full Depth, Off Site	SY	6417
P-101.6	Remove Existing Trench Drain	LF	343
P-152.1	Unclassified Excavation, Select Fill	CY	1485
P-152.2	Subgrade Preparation	SY	6417
P-152.3	Unsuitable/Over Excavation	CY	100
P-209.1	Crushed Agreegate Base Course 10"	CY	1783
P-401.1	Asphalt Concrete Surface Course	TON	698
P-403.1	Asphalt Concrete Leveling Course	TON	698
P-602.1	Emulsified Asphalt Prime Coat	Gal	642
P-603.1	Emulsified Asphalt Tack Coat	Gal	321
P-620.1	Temporary Pavement Markings	SF	207
P-620.2	Permanent Pavement Markings	SF	207
D-701.1	HDPE Sewer Pipe, 8-inch	LF	22
D-702.1	8" Trench Drain (Grate and Pipe)	LF	333
D-751.2	Aircraft Rated Manhole Covers	EA	1
D-751.3	Aircraft Rated Grate Inlet	EA	1
D-751.5	Connect Inlet to Existing Storm	EA	1
D-751.6	Adjust Storm Manhole to Grade	EA	1
T-901.1	Seeding, Staging Area	AC	5
T-901.2	Temporary Seeding	AC	0.25
T-901.3	Permanent Seeding	AC	0.25
T-905.1	Topsoiling, Staging Area	CY	2762

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**CONSTRUCTION
 SAFETY & PHASING
 PLAN**

SHEET NO.

G-081

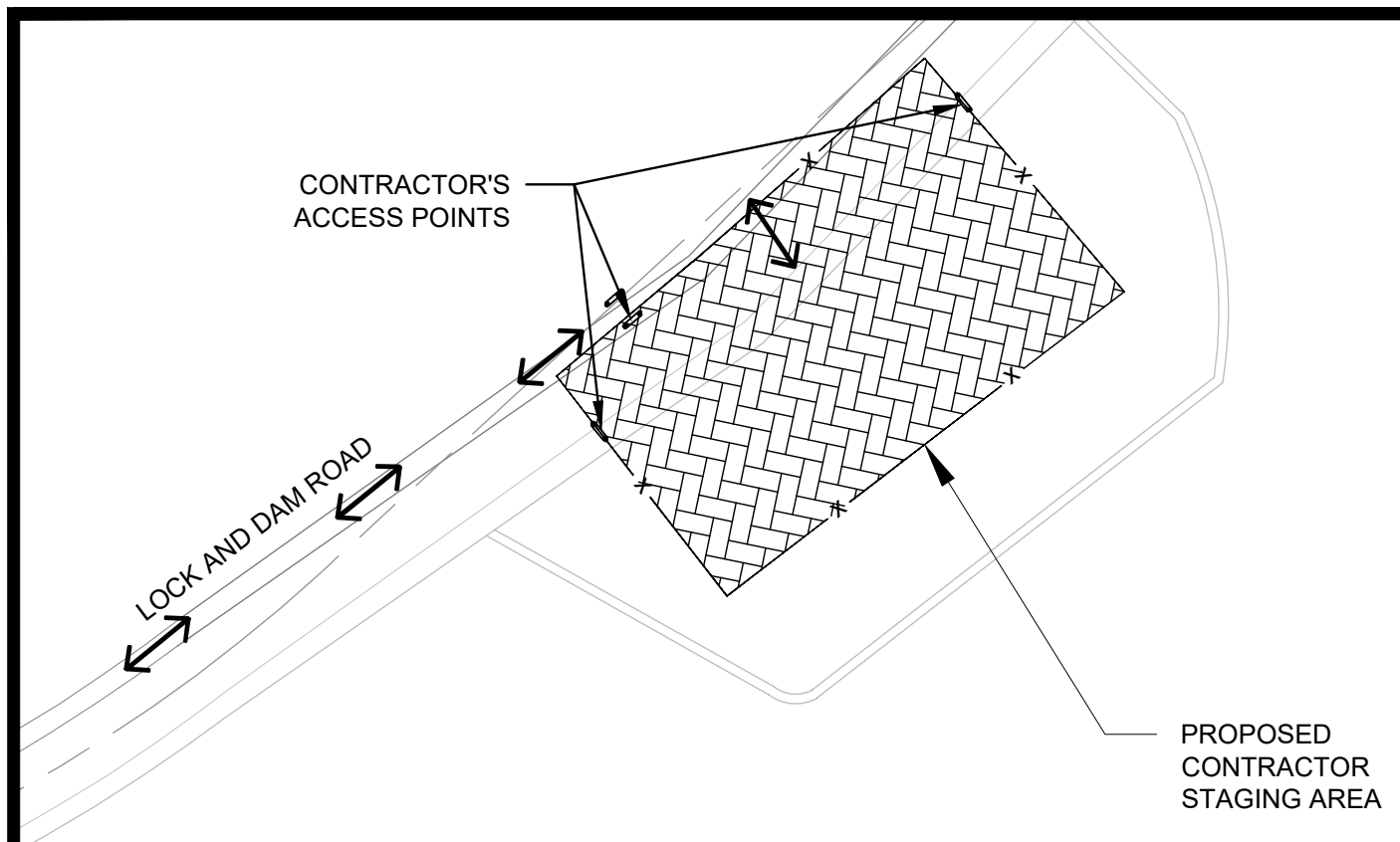
WORK SCHEDULE PHASING

MOBILIZATION PHASE: (60 CALENDAR DAYS)

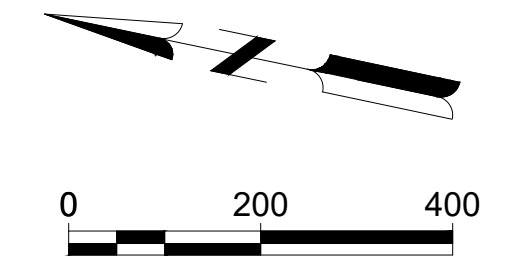
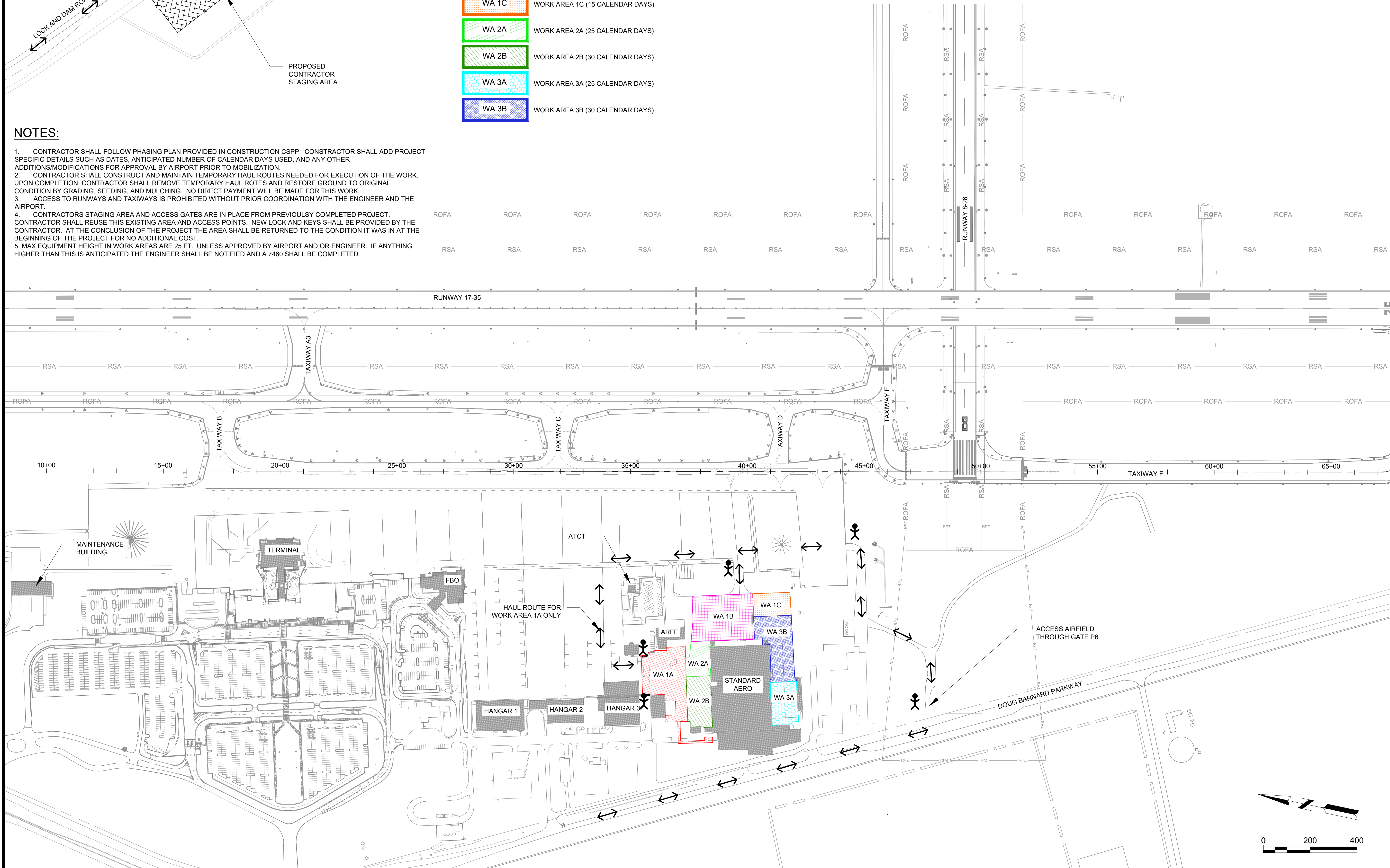
WA 1A	WORK AREA 1A (45 CALENDAR DAYS)
WA 1B	WORK AREA 1B (45 CALENDAR DAYS)
WA 1C	WORK AREA 1C (15 CALENDAR DAYS)
WA 2A	WORK AREA 2A (25 CALENDAR DAYS)
WA 2B	WORK AREA 2B (30 CALENDAR DAYS)
WA 3A	WORK AREA 3A (25 CALENDAR DAYS)
WA 3B	WORK AREA 3B (30 CALENDAR DAYS)

LEGEND

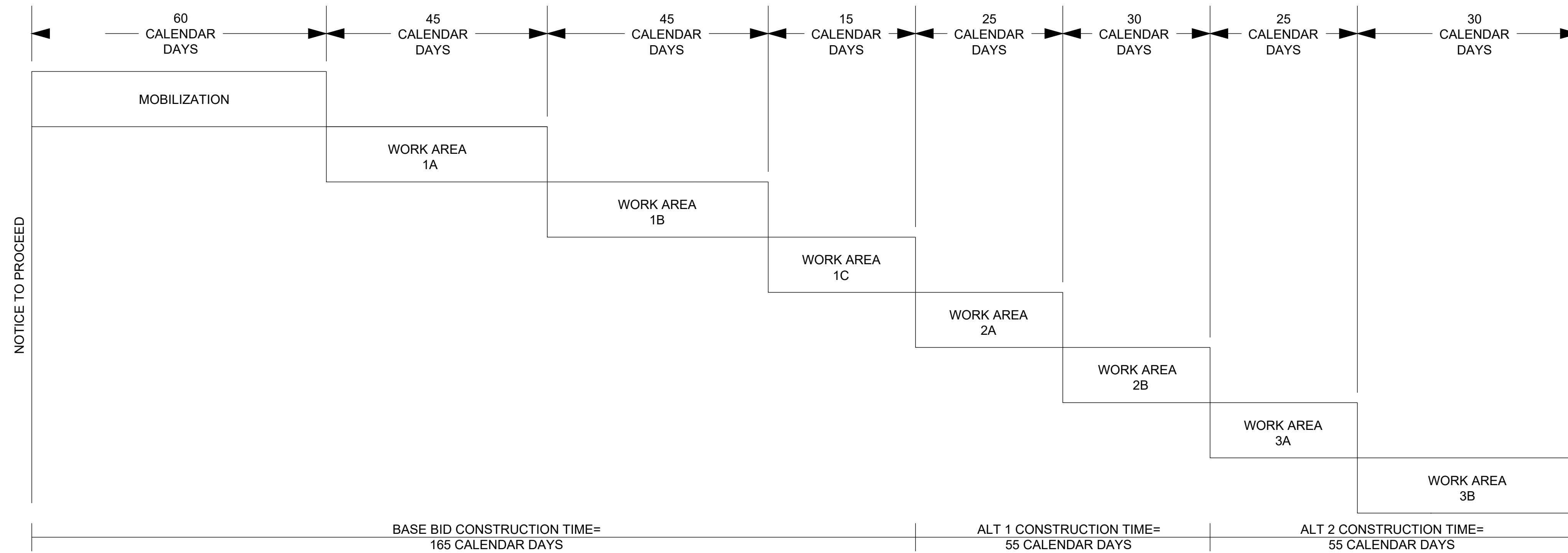
	TEMPORARY HAUL ROUTE		CONTRACTOR STAGING AREA
	RADIO PERSONNEL/FLAGGER		TAXIWAY SAFETY AREA
	RUNWAY SAFETY AREA		TAXIWAY OBJECT FREE AREA
	RUNWAY OBJECT FREE AREA		RUNWAY PROTECTION ZONE



- 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/MODIFICATIONS FOR APPROVAL BY 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 ROTES 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.
 - CONTRACTORS STAGING AREA AND ACCESS GATES ARE IN PLACE FROM PREVIOUSLY COMPLETED PROJECT. CONTRACTOR SHALL REUSE THIS 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 IN AT THE BEGINNING OF THE PROJECT FOR NO ADDITIONAL COST.
 - MAX EQUIPMENT HEIGHT IN WORK AREAS ARE 25 FT. UNLESS APPROVED BY AIRPORT AND OR ENGINEER. IF ANYTHING HIGHER THAN THIS IS ANTICIPATED THE ENGINEER SHALL BE NOTIFIED AND A 7460 SHALL BE COMPLETED.



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PHASING NOTES:

- SEE PROJECT LAYOUT PLAN FOR LIMITS OF WORK IN EACH BID SCHEDULE. THE BASE BID CONSIST OF ALL WORK IN WORK AREAS 1A, 1B, & 1C. ADDITIVE ALTERNATE 1 CONSIST OF ALL WORK IN WORK AREAS 2A & 2B. BID ALTERNATE 2 CONSIST OF ALL WORK IN WORK AREAS 3A & 3B.
- TOTAL CONTRACT TIME SHALL BE ADJUSTED BASED ON IF BID ALTERNATE 1 AND/OR 2 ARE AWARDED.

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:

- SUBMITTALS:
 - PROCESSING OF REQUIRED MATERIALS/EQUIPMENT SUBMITTALS AND THE CONTRACTOR'S PROPOSED WORK SCHEDULE, INCLUDING REQUESTED PAVEMENT CLOSURE DATES.
 - ALL PRE-QUALIFICATION TESTING, REVIEW, AND APPROVALS.
 - MATERIAL DELIVERY SCHEDULE. INCLUDING MATERIAL DELIVERY DATE TO JOB SITE OR TO THE CONTRACTOR'S YARD.
- DURING MOBILIZATION, THE CONTRACTOR SHALL BE ALLOWED TO PERFORM LAYOUT, STAKING, AND OTHER PREP WORK AS APPROVED BY THE AIRPORT.
- 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 DATES SHALL NOT BE CHANGED, ONCE ESTABLISHED, UNLESS COORDINATION WITH THE CA TEAM AND FINAL APPROVAL OF THE AIRPORT.

GENERAL NOTES:

- GENERAL WORK SCOPE IS NOT ALL INCLUSIVE. REFER TO CONTRACT DRAWINGS FOR COMPLETE SCOPE OF WORK FOR EACH SCHEDULE.
- A MINIMUM OF 10 CALENDAR DAYS NOTICE SHALL BE PROVIDED TO THE ENGINEER AND AIRPORT BY THE CONTRACTOR PRIOR TO MOBILIZATION.
- A MINIMUM OF 15 CALENDAR DAYS NOTICE SHALL BE PROVIDED TO THE ENGINEER AND AIRPORT BY THE CONTRACTOR PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES UNRELATED TO MOBILIZATION.
- THE CONTRACTOR MUST SUBMIT A PRELIMINARY CONSTRUCTION CRITICAL PATH METHOD SCHEDULE 15 DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING OUTLINING THE FOLLOWING: MOBILIZATION TIMELINE, LOCATION OF PROJECT ACTIVITIES WITH CORRESPONDING TIMELINES, ANTICIPATED BID ITEM MILESTONE AND COMPLETION DATES, AND KEY CONSTRUCTION OPERATION DATES WHICH MAY AFFECT AIRFIELD OPERATIONS OR ROADWAY TRAFFIC.
- HOURS OF AIR TRAFFIC CONTROL TOWER OPERATIONS ARE FROM 7:00AM TO 7:00PM LOCAL TIME.
- SEE SPECIAL PROVISIONS FOR DETAILS ON CONSTRUCTION LIMITATIONS. CLOSURE OF EXISTING AIRFIELD PAVEMENTS WILL BE ALLOWED ONLY ONCE THE FOLLOWING CONDITIONS ARE MET:
 - 48-HOUR ADVANCE NOTIFICATION, VERIFYING THAT A PREVIOUSLY APPROVED CLOSURE PERIOD WILL BE AS SCHEDULED.
 - 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.
- THE AUGUSTA AIRPORT EXPERIENCES HIGH TRAFFIC VOLUMES DURING THE MASTERS WEEK. THE BIDDER IS ADVISED THAT A TEMPORARY SUSPENSION OF WORK WILL OCCUR DURING THIS PERIOD OF TIME (4/3/23 - 4/13/23).
- ANY ADDITIONAL LOW-PROFILE BARRICADES (INCLUDING SUPPLEMENTARY LIGHTS) NEEDED FOR PROPER EXECUTION OF THE WORK SHALL BE PROVIDED BY THE CONTRACTOR.

CONSTRUCTION PHASING DIAGRAM

N.T.S.

AUGUSTA RICHMOND COUNTY GENERAL NOTES:

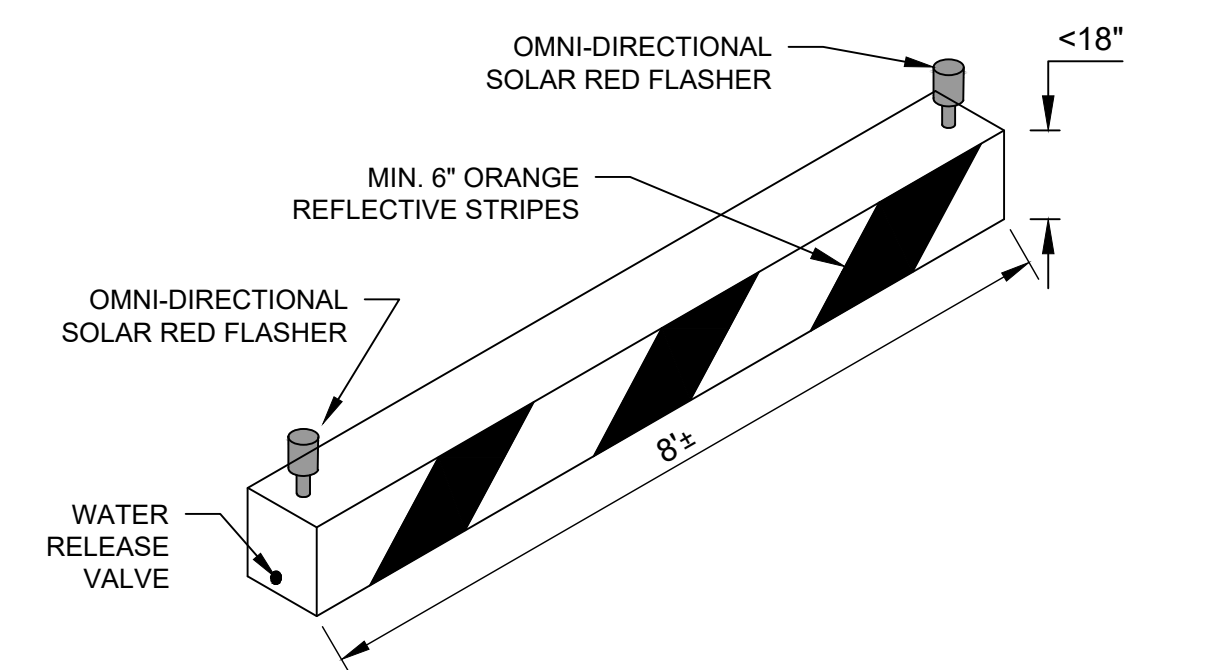
- ALL DRAINAGE EASEMENTS AND DISTURBED AREAS MUST BE GRASSED AND/OR RIP-RAPPED AS REQUIRED TO CONTROL EROSION.
- ALL CONSTRUCTION WITHIN AUGUSTA RIGHTS-OF WAY SHALL CONFORM TO AUGUSTA, GEORGIA STANDARDS AND SPECIFICATIONS.
- ALL SILT BARRIERS MUST BE PLACED IMMEDIATELY FOLLOWING CLEARING. NO GRADING SHALL BE DONE UNTIL SILT BARRIER INSTALLATION IS COMPLETED.
- 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.
- 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 WORKS AND ENGINEERING AGREEING TO PAY THE OVERTIME. THE INDIVIDUAL REQUESTING THE INSPECTION SHALL SIGN A FORM WHICH IS FURNISHED BY THE DEPARTMENT OF PUBLIC WORKS 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.
- 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:

- 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).
- CONTRACTOR SHALL NOT ENTER ANY ACTIVE SAFETY AREAS OR OBJECT FREE AREAS WITHOUT AUTHORIZATION FROM THE AIRPORT.
- 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.
- 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 AND 300 FEET OFF EACH SIDE OF THE RUNWAY CENTERLINE. IT SHALL REMAIN CLEAR OF PERSONNEL, MATERIAL AND EQUIPMENT AT ALL TIMES.
- THE RUNWAY 17-35 OBSTACLE FREE ZONE (OFZ) IS 200-FEET EACH SIDE OF CENTERLINE AND 200-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.
- IN TRANSITIONS FROM PAVED TO UNPAVED AREAS, A TEMPORARY 3 INCH MAXIMUM VERTICAL DROP IS ALLOWED.
- DAILY SAFETY INSPECTIONS SHALL BE PERFORMED AS REQUIRED IN THE CSPP.

CONTRACTOR NOTES:

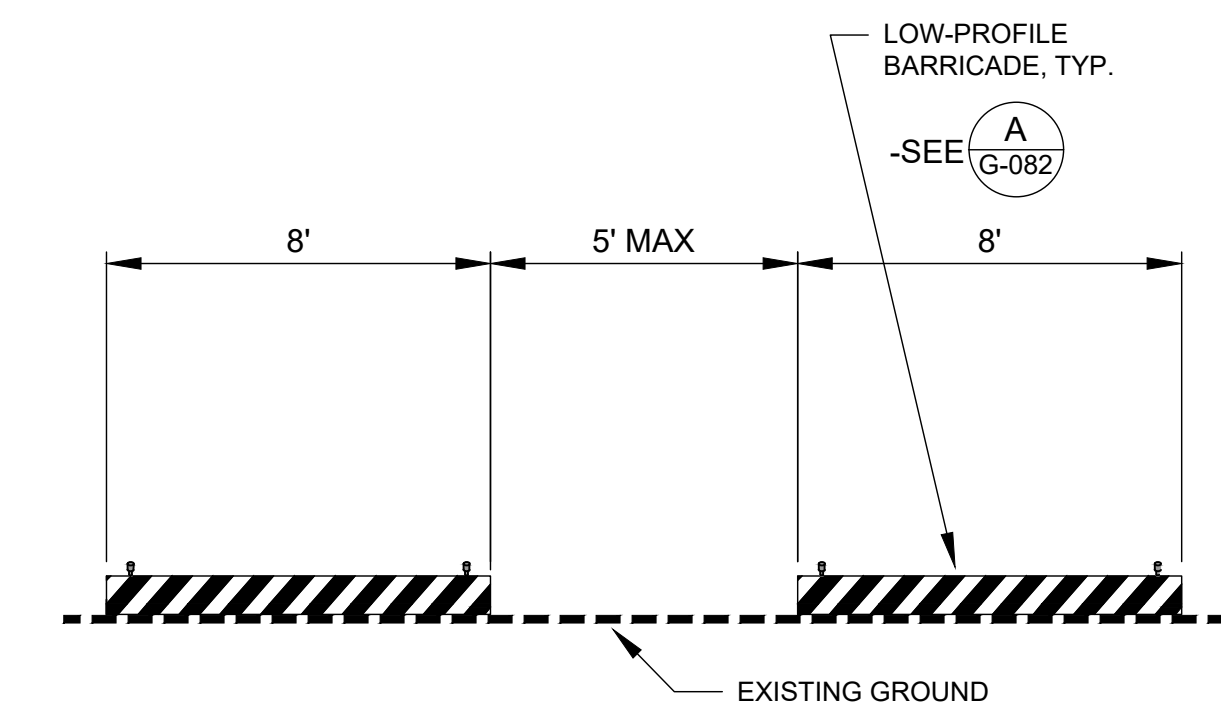
- THE CONTRACTOR SHALL DESIGNATE A PERSON ON CALL 24 HOURS A DAY, 7 DAYS A WEEK, FOR EMERGENCY MAINTENANCE OF AIRPORT HAZARD LIGHTING AND BARRICADES. THIS CONTACT INFORMATION MUST BE ON FILE WITH THE AIRPORT OPERATOR.



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

LOW-PROFILE BARRICADE DETAIL
SCALE: NTS

A
G-082



LOW-PROFILE BARRICADE LAYOUT DETAIL
SCALE: NTS

B
G-082

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SHEET CONTENTS
CONSTRUCTION SAFETY & PHASING PLAN - MATRIX

SHEET NO.

G-082

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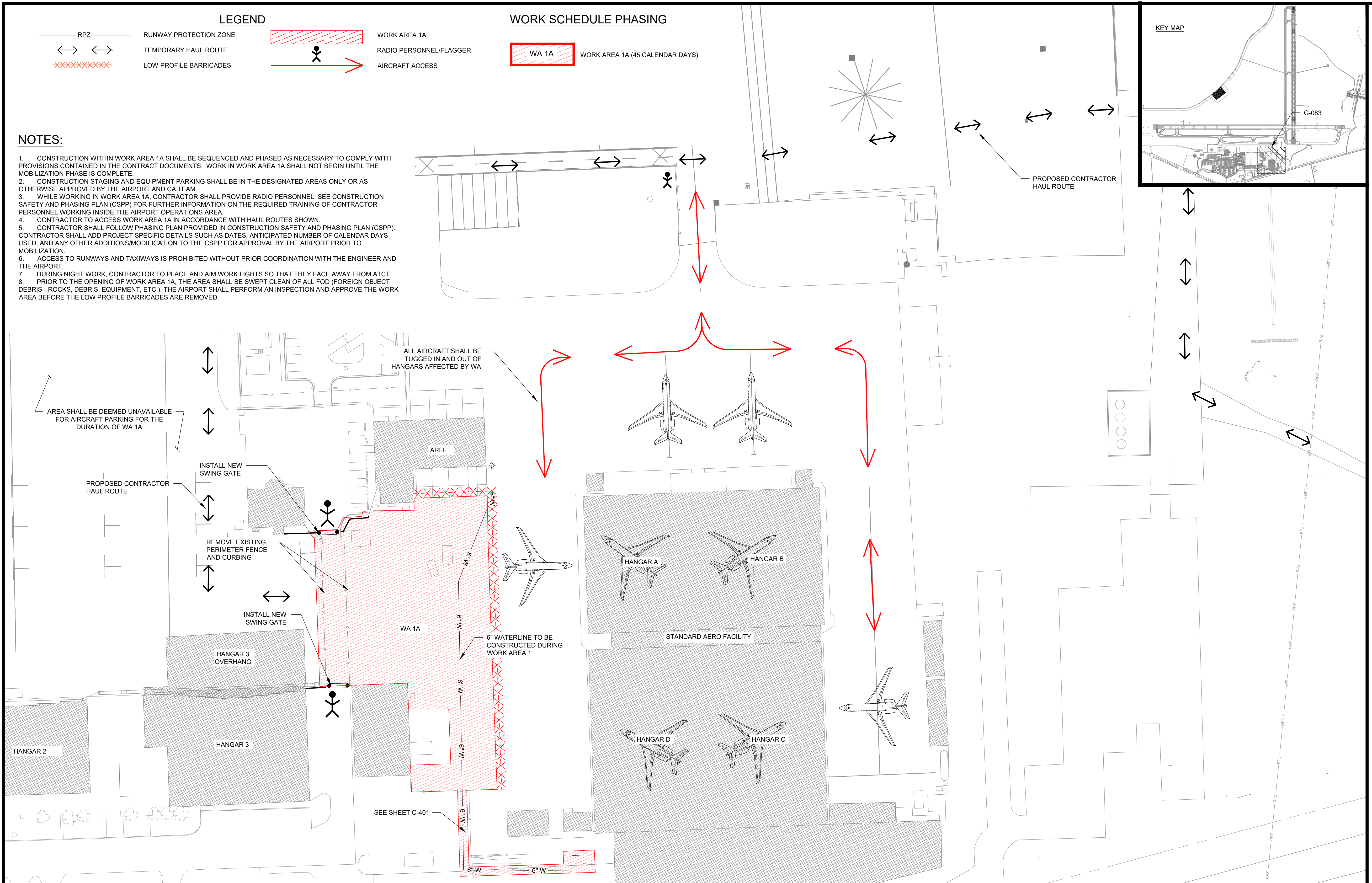
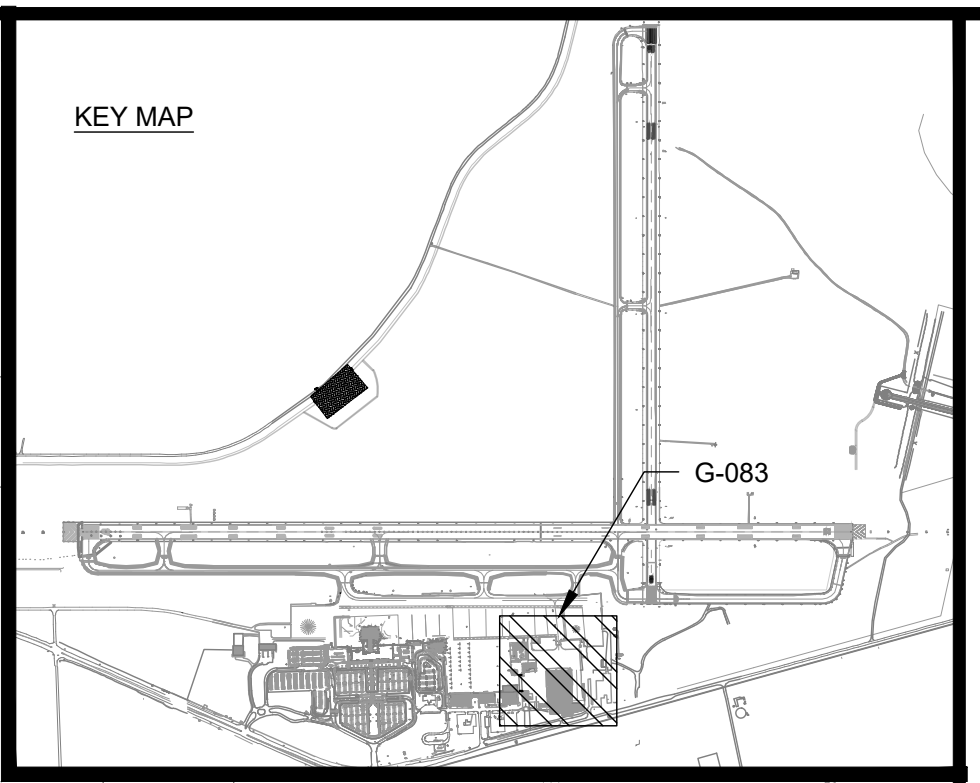
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CONSTRUCTION
SAFETY & PHASING
PLAN - WA 1A

SHEET NO.

G-083



LEGEND

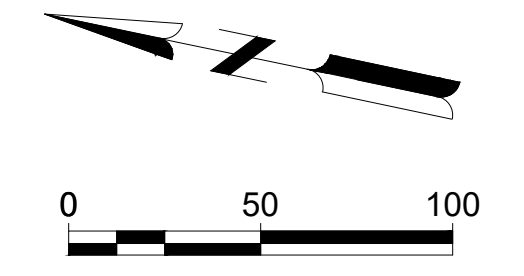
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	TEMPORARY HAUL ROUTE			RADIO PERSONNEL/FLAGGER
	LOW-PROFILE BARRICADES			AIRCRAFT ACCESS

WORK SCHEDULE PHASING

WA 1A WORK AREA 1A (45 CALENDAR DAYS)

- ### NOTES:
- CONSTRUCTION WITHIN WORK AREA 1A SHALL BE SEQUENCED AND PHASING AS NECESSARY TO COMPLY WITH PROVISIONS CONTAINED IN THE CONTRACT DOCUMENTS. WORK IN WORK AREA 1A SHALL NOT BEGIN UNTIL THE MOBILIZATION PHASE IS COMPLETE.
 - CONSTRUCTION STAGING AND EQUIPMENT PARKING SHALL BE IN THE DESIGNATED AREAS ONLY OR AS OTHERWISE APPROVED BY THE AIRPORT AND CA TEAM.
 - WHILE WORKING IN WORK AREA 1A, CONTRACTOR SHALL PROVIDE RADIO PERSONNEL. SEE CONSTRUCTION SAFETY AND PHASING PLAN (CSPP) FOR FURTHER INFORMATION ON THE REQUIRED TRAINING OF CONTRACTOR PERSONNEL WORKING INSIDE THE AIRPORT OPERATIONS AREA.
 - CONTRACTOR TO ACCESS WORK AREA 1A 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.
 - PRIOR TO THE OPENING OF WORK AREA 1A, THE AREA SHALL BE SWEEPED CLEAN OF ALL FOD (FOREIGN OBJECT DEBRIS - ROCKS, DEBRIS, EQUIPMENT, ETC.). THE AIRPORT SHALL PERFORM AN INSPECTION AND APPROVE THE WORK AREA BEFORE THE LOW PROFILE BARRICADES ARE REMOVED.

WORK AREA	GENERAL WORK SCOPE	AFFECTED AOA	WORK HOURS	CALENDAR DAYS	SAFETY AND SECURITY
WA 1A	THE DEMOLITION OF APPROXIMATELY 4,350 SY (E) ASPHALT, INSTALLATION OF 596 LF OF (P) WATER LINE, AND APPROXIMATELY 945 TONS OF ASPHALT.	STANDARD AERO RAMP AND SOUTH RAMP	24 HOURS	45	<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.



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AUGUSTA REGIONAL AIRPORT REHABILITATION OF STANDARD AERO RAMP 1501 AVIATION WAY AUGUSTA, GA 30906-9620

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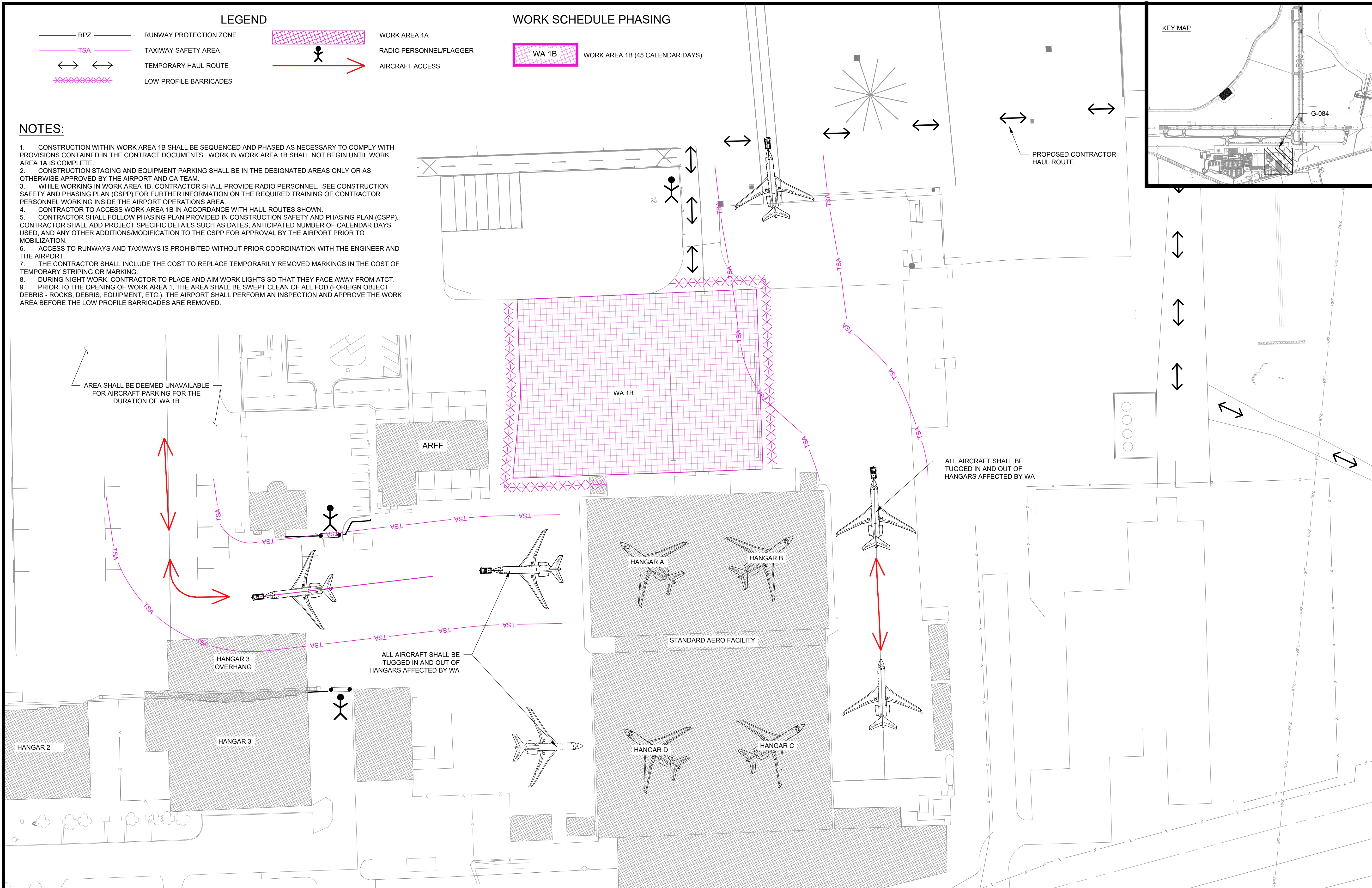
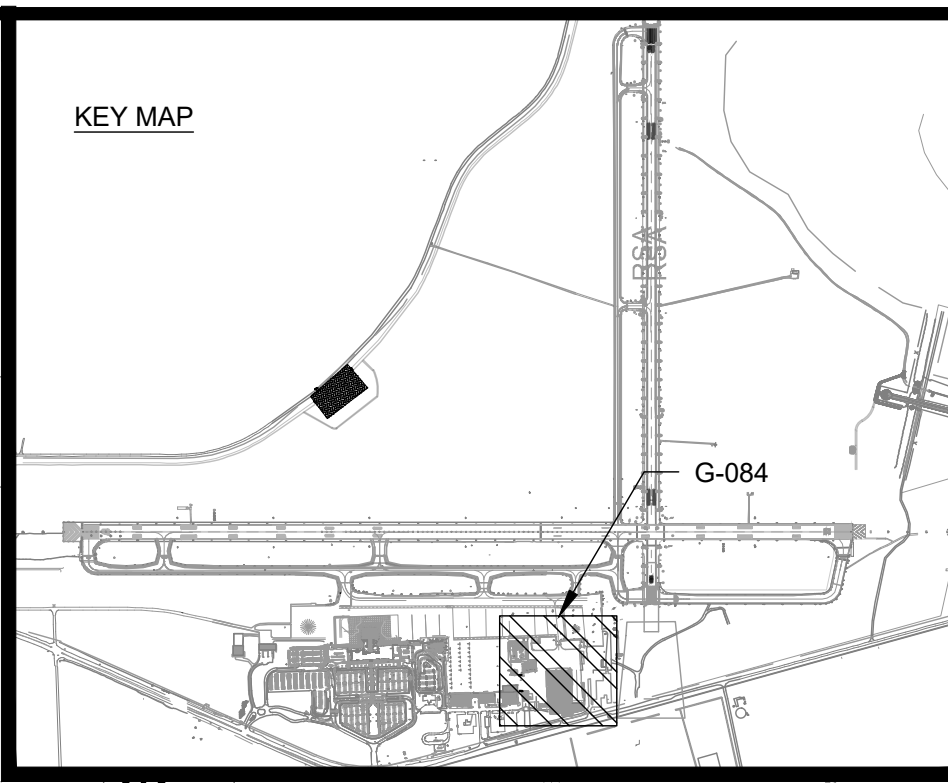
NOT FOR CONSTRUCTION

CARES: 3-13-0011-045-2020
M&H NO: 0119700-202062.01
DATE: APRIL 22, 2022
DESIGNED BY: EJS
DRAWN BY: NJH
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SHEET CONTENTS
CONSTRUCTION
SAFETY & PHASING
PLAN - WA 1B

SHEET NO.

G-084



LEGEND

- RPZ — RUNWAY PROTECTION ZONE
- TSA — TAXIWAY SAFETY AREA
- ↔ ↔ TEMPORARY HAUL ROUTE
- XXXXXXXXXX LOW-PROFILE BARRICADES
- WORK AREA 1A
- RADIO PERSONNEL/FLAGGER
- AIRCRAFT ACCESS

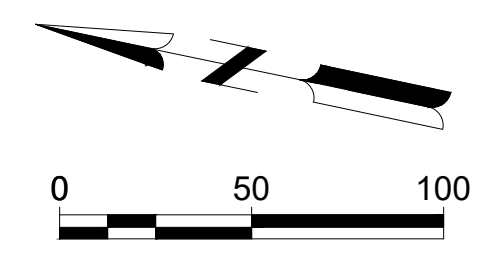
WORK SCHEDULE PHASING

- WA 1B WORK AREA 1B (45 CALENDAR DAYS)

- #### NOTES:
- CONSTRUCTION WITHIN WORK AREA 1B SHALL BE SEQUENCED AND PHASING AS NECESSARY TO COMPLY WITH PROVISIONS CONTAINED IN THE CONTRACT DOCUMENTS. WORK IN WORK AREA 1B SHALL NOT BEGIN UNTIL WORK AREA 1A IS COMPLETE.
 - CONSTRUCTION STAGING AND EQUIPMENT PARKING SHALL BE IN THE DESIGNATED AREAS ONLY OR AS OTHERWISE APPROVED BY THE AIRPORT AND CA TEAM.
 - WHILE WORKING IN WORK AREA 1B, CONTRACTOR SHALL PROVIDE RADIO PERSONNEL. SEE CONSTRUCTION SAFETY AND PHASING PLAN (CSPP) FOR FURTHER INFORMATION ON THE REQUIRED TRAINING OF CONTRACTOR PERSONNEL WORKING INSIDE THE AIRPORT OPERATIONS AREA.
 - CONTRACTOR TO ACCESS WORK AREA 1B 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.
 - THE CONTRACTOR SHALL INCLUDE THE COST TO REPLACE TEMPORARILY REMOVED MARKINGS IN THE COST OF TEMPORARY STRIPING OR MARKING.
 - DURING NIGHT WORK, CONTRACTOR TO PLACE AND AIM WORK LIGHTS SO THAT THEY FACE AWAY FROM ATCT.
 - PRIOR TO THE OPENING OF WORK AREA 1, THE AREA SHALL BE SWEEPED CLEAN OF ALL FOD (FOREIGN OBJECT DEBRIS - ROCKS, DEBRIS, EQUIPMENT, ETC.). THE AIRPORT SHALL PERFORM AN INSPECTION AND APPROVE THE WORK AREA BEFORE THE LOW PROFILE BARRICADES ARE REMOVED.

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WORK AREA	GENERAL WORK SCOPE	AFFECTED AOA	WORK HOURS	CALENDAR DAYS	SAFETY AND SECURITY
WA 1B	THE DEMOLITION OF APPROXIMATELY 5,680SY (E) ASPHALT AND THE INSTALLATION OF APPROXIMATELY 1235 TONS OF ASPHALT.	STANDARD AERO RAMP AND SOUTH RAMP	24 HOURS	45	<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.



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AUGUSTA REGIONAL AIRPORT REHABILITATION OF STANDARD AERO RAMP 1501 AVIATION WAY AUGUSTA, GA 30906-9620

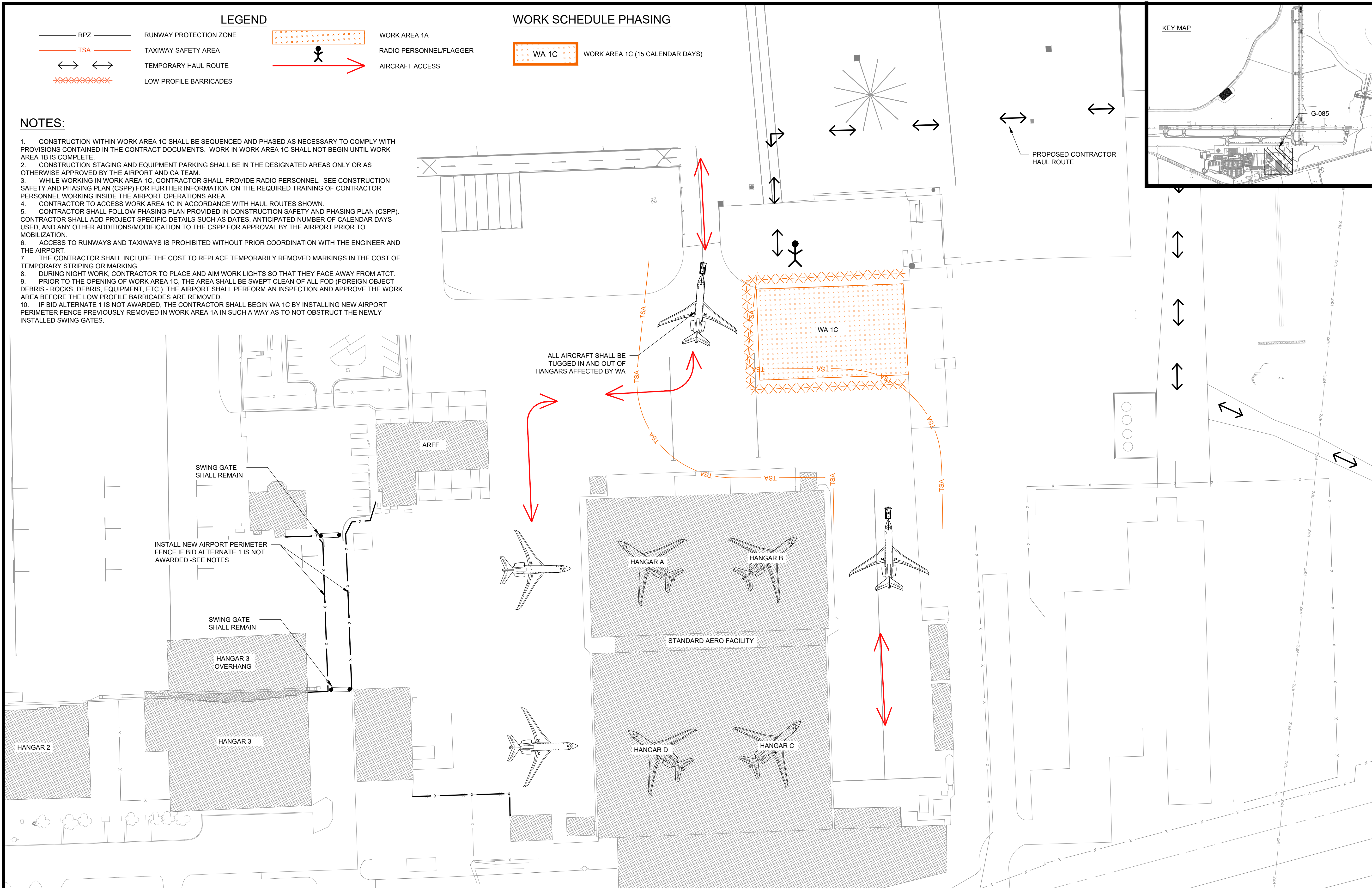
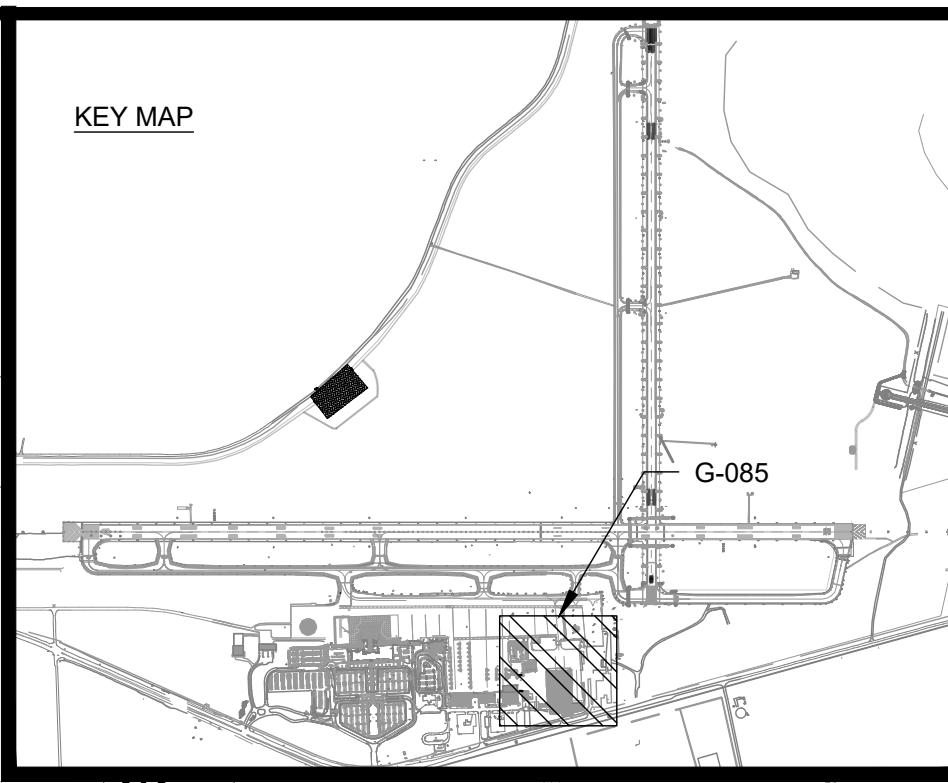
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DATE: APRIL 22, 2022
DESIGNED BY: NJH
DRAWN BY: NJH
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SHEET CONTENTS
CONSTRUCTION
SAFETY & PHASING
PLAN - WA 1C

SHEET NO.



LEGEND

- RPZ — RUNWAY PROTECTION ZONE
- TSA — TAXIWAY SAFETY AREA
- ↔ ↔ TEMPORARY HAUL ROUTE
- XXXXXXXXXX LOW-PROFILE BARRICADES
- WORK AREA 1A
- RADIO PERSONNEL/FLAGGER
- AIRCRAFT ACCESS

WORK SCHEDULE PHASING

- WA 1C WORK AREA 1C (15 CALENDAR DAYS)

NOTES:

1. CONSTRUCTION WITHIN WORK AREA 1C SHALL BE SEQUENCED AND PHASED AS NECESSARY TO COMPLY WITH PROVISIONS CONTAINED IN THE CONTRACT DOCUMENTS. WORK IN WORK AREA 1C SHALL NOT BEGIN UNTIL WORK AREA 1B IS COMPLETE.
2. CONSTRUCTION STAGING AND EQUIPMENT PARKING SHALL BE IN THE DESIGNATED AREAS ONLY OR AS OTHERWISE APPROVED BY THE AIRPORT AND CA TEAM.
3. WHILE WORKING IN WORK AREA 1C, CONTRACTOR SHALL PROVIDE RADIO PERSONNEL. SEE CONSTRUCTION SAFETY AND PHASING PLAN (CSPP) FOR FURTHER INFORMATION ON THE REQUIRED TRAINING OF CONTRACTOR PERSONNEL WORKING INSIDE THE AIRPORT OPERATIONS AREA.
4. CONTRACTOR TO ACCESS WORK AREA 1C IN ACCORDANCE WITH HAUL ROUTES SHOWN.
5. 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.
6. ACCESS TO RUNWAYS AND TAXIWAYS IS PROHIBITED WITHOUT PRIOR COORDINATION WITH THE ENGINEER AND THE AIRPORT.
7. THE CONTRACTOR SHALL INCLUDE THE COST TO REPLACE TEMPORARILY REMOVED MARKINGS IN THE COST OF TEMPORARY STRIPING OR MARKING.
8. DURING NIGHT WORK, CONTRACTOR TO PLACE AND AIM WORK LIGHTS SO THAT THEY FACE AWAY FROM ATCT.
9. PRIOR TO THE OPENING OF WORK AREA 1C, THE AREA SHALL BE SWEEPED CLEAN OF ALL FOD (FOREIGN OBJECT DEBRIS - ROCKS, DEBRIS, EQUIPMENT, ETC.). THE AIRPORT SHALL PERFORM AN INSPECTION AND APPROVE THE WORK AREA BEFORE THE LOW PROFILE BARRICADES ARE REMOVED.
10. IF BID ALTERNATE 1 IS NOT AWARDED, THE CONTRACTOR SHALL BEGIN WA 1C BY INSTALLING NEW AIRPORT PERIMETER FENCE PREVIOUSLY REMOVED IN WORK AREA 1A IN SUCH A WAY AS TO NOT OBSTRUCT THE NEWLY INSTALLED SWING GATES.

ALL AIRCRAFT SHALL BE TUGGED IN AND OUT OF HANGARS AFFECTED BY WA

INSTALL NEW AIRPORT PERIMETER FENCE IF BID ALTERNATE 1 IS NOT AWARDED -SEE NOTES

SWING GATE SHALL REMAIN

SWING GATE SHALL REMAIN

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WORK AREA	GENERAL WORK SCOPE	AFFECTED AOA	WORK HOURS	CALENDAR DAYS	SAFETY AND SECURITY
WA 1C	THE DEMOLITION OF APPROXIMATELY 1,760SY (E) ASPHALT AND THE INSTALLATION OF APPROXIMATELY 385 TONS OF ASPHALT.	STANDARD AERO RAMP AND SOUTH RAMP	24 HOURS	15	<ol style="list-style-type: none"> 1. THE CONTRACTOR SHALL INSTALL LOW-PROFILE BARRICADES AS SHOWN. 2. THE CONTRACTOR SHALL NOTIFY THE AIRPORT AT LEAST 5 DAYS IN ADVANCE OF WORK FOR NOTAM OF CONSTRUCTION ACTIVITY TO BE POSTED. 3. 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.

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AUGUSTA REGIONAL AIRPORT REHABILITATION OF STANDARD AERO RAMP

1501 AVIATION WAY
AUGUSTA, GA 30906-9620

ISSUED
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NOT FOR CONSTRUCTION

CARES: 3-13-0011-045-2020
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DATE: APRIL 22, 2022
DESIGNED BY: EJS
DRAWN BY: NJH
CHECKED BY: DES
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SHEET CONTENTS
CONSTRUCTION
SAFETY & PHASING
PLAN - WA 2A

SHEET NO.

G-086

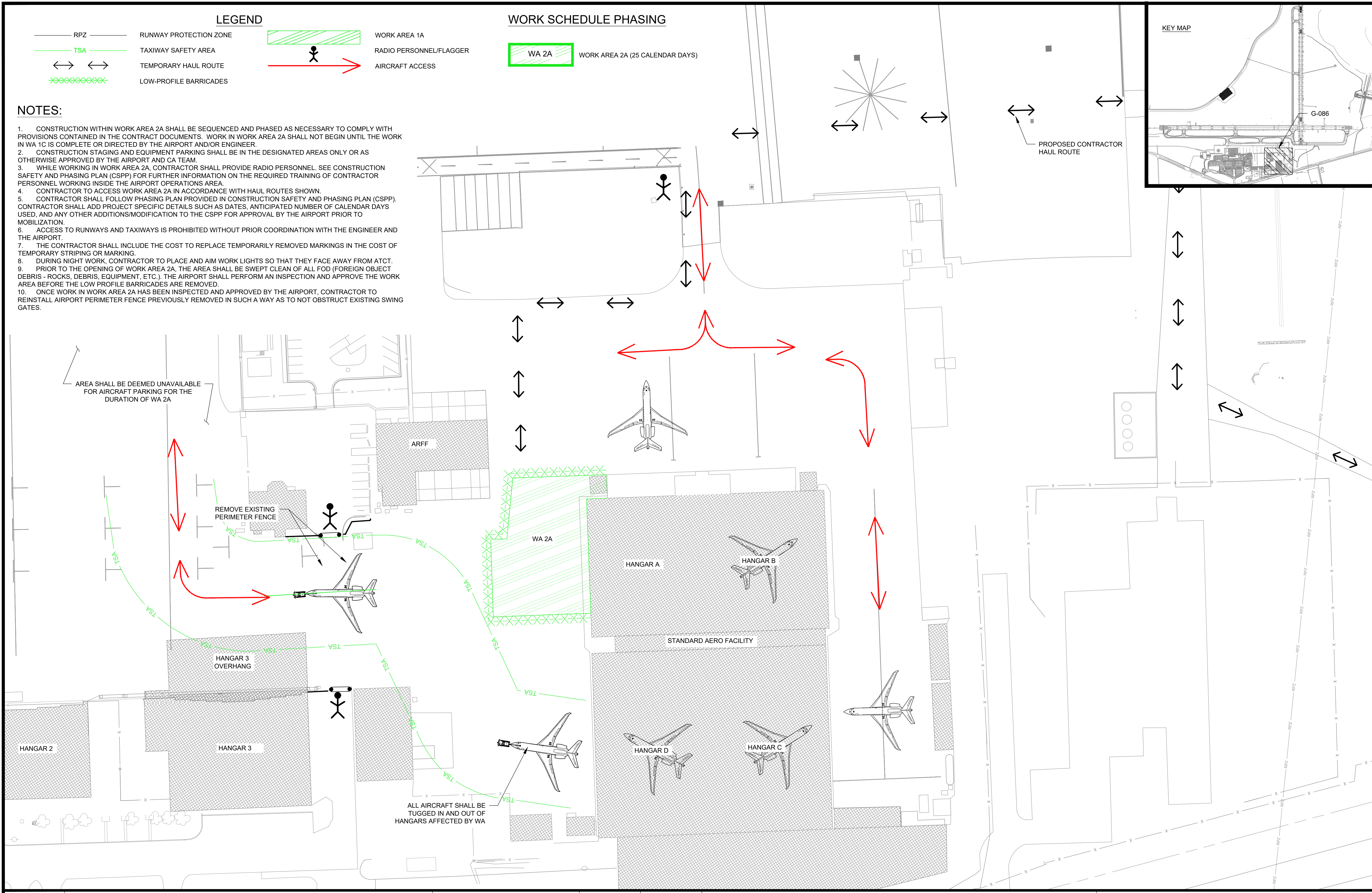
LEGEND

- RPZ — RUNWAY PROTECTION ZONE
- TSA — TAXIWAY SAFETY AREA
- ↔ ↔ TEMPORARY HAUL ROUTE
- XXXXXXXXXX LOW-PROFILE BARRICADES
- WORK AREA 1A
- RADIO PERSONNEL/FLAGGER
- AIRCRAFT ACCESS

WORK SCHEDULE PHASING

- WA 2A WORK AREA 2A (25 CALENDAR DAYS)

- #### NOTES:
- CONSTRUCTION WITHIN WORK AREA 2A SHALL BE SEQUENCED AND PHASING AS NECESSARY TO COMPLY WITH PROVISIONS CONTAINED IN THE CONTRACT DOCUMENTS. WORK IN WORK AREA 2A SHALL NOT BEGIN UNTIL THE WORK IN WA 1C IS COMPLETE OR DIRECTED BY THE AIRPORT AND/OR ENGINEER.
 - CONSTRUCTION STAGING AND EQUIPMENT PARKING SHALL BE IN THE DESIGNATED AREAS ONLY OR AS OTHERWISE APPROVED BY THE AIRPORT AND CA TEAM.
 - WHILE WORKING IN WORK AREA 2A, CONTRACTOR SHALL PROVIDE RADIO PERSONNEL. SEE CONSTRUCTION SAFETY AND PHASING PLAN (CSPP) FOR FURTHER INFORMATION ON THE REQUIRED TRAINING OF CONTRACTOR PERSONNEL WORKING INSIDE THE AIRPORT OPERATIONS AREA.
 - CONTRACTOR TO ACCESS WORK AREA 2A 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.
 - THE CONTRACTOR SHALL INCLUDE THE COST TO REPLACE TEMPORARILY REMOVED MARKINGS IN THE COST OF TEMPORARY STRIPING OR MARKING.
 - DURING NIGHT WORK, CONTRACTOR TO PLACE AND AIM WORK LIGHTS SO THAT THEY FACE AWAY FROM ATCT.
 - PRIOR TO THE OPENING OF WORK AREA 2A, THE AREA SHALL BE SWEEPED CLEAN OF ALL FOD (FOREIGN OBJECT DEBRIS - ROCKS, DEBRIS, EQUIPMENT, ETC.). THE AIRPORT SHALL PERFORM AN INSPECTION AND APPROVE THE WORK AREA BEFORE THE LOW PROFILE BARRICADES ARE REMOVED.
 - ONCE WORK IN WORK AREA 2A HAS BEEN INSPECTED AND APPROVED BY THE AIRPORT, CONTRACTOR TO REINSTALL AIRPORT PERIMETER FENCE PREVIOUSLY REMOVED IN SUCH A WAY AS TO NOT OBSTRUCT EXISTING SWING GATES.

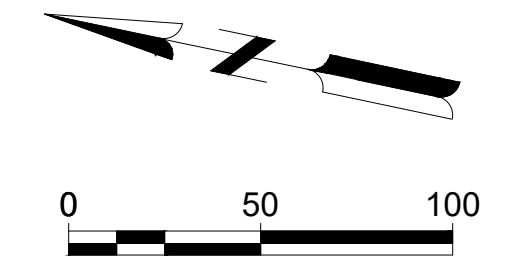


AREA SHALL BE DEEMED UNAVAILABLE FOR AIRCRAFT PARKING FOR THE DURATION OF WA 2A

REMOVE EXISTING PERIMETER FENCE

ALL AIRCRAFT SHALL BE TUGGED IN AND OUT OF HANGARS AFFECTED BY WA

WORK AREA	GENERAL WORK SCOPE	AFFECTED AOA	WORK HOURS	CALENDAR DAYS	SAFETY AND SECURITY
WA 2A	THE DEMOLITION OF APPROXIMATELY 1,900 SY (E) ASPHALT AND INSTALLATION OF APPROXIMATELY 420 TONS OF ASPHALT.	STANDARD AERO RAMP AND SOUTH RAMP	24 HOURS	25	<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.



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**AUGUSTA REGIONAL AIRPORT
 REHABILITATION OF STANDARD
 AERO RAMP**
 1501 AVIATION WAY
 AUGUSTA, GA 30906-9620

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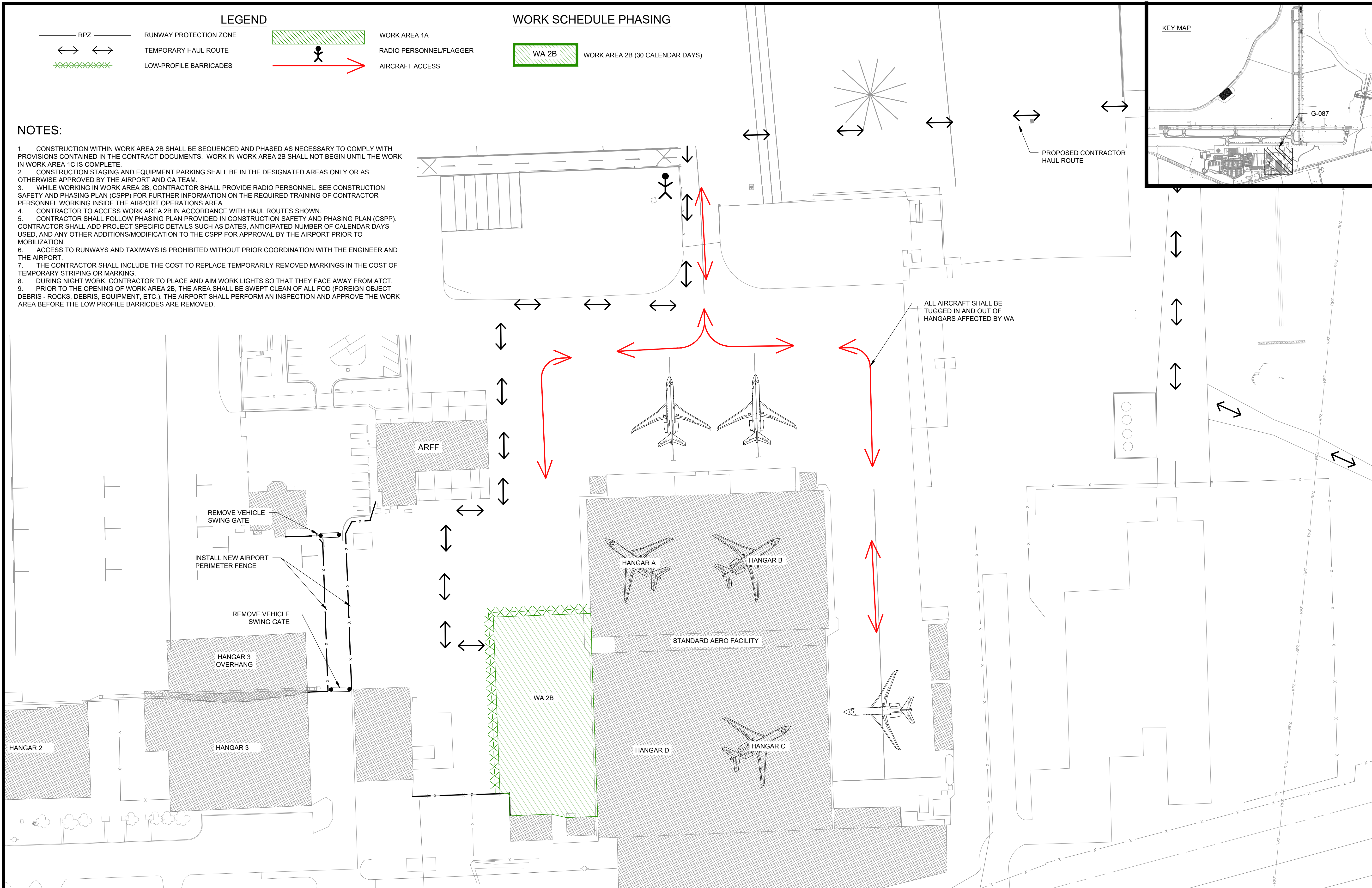
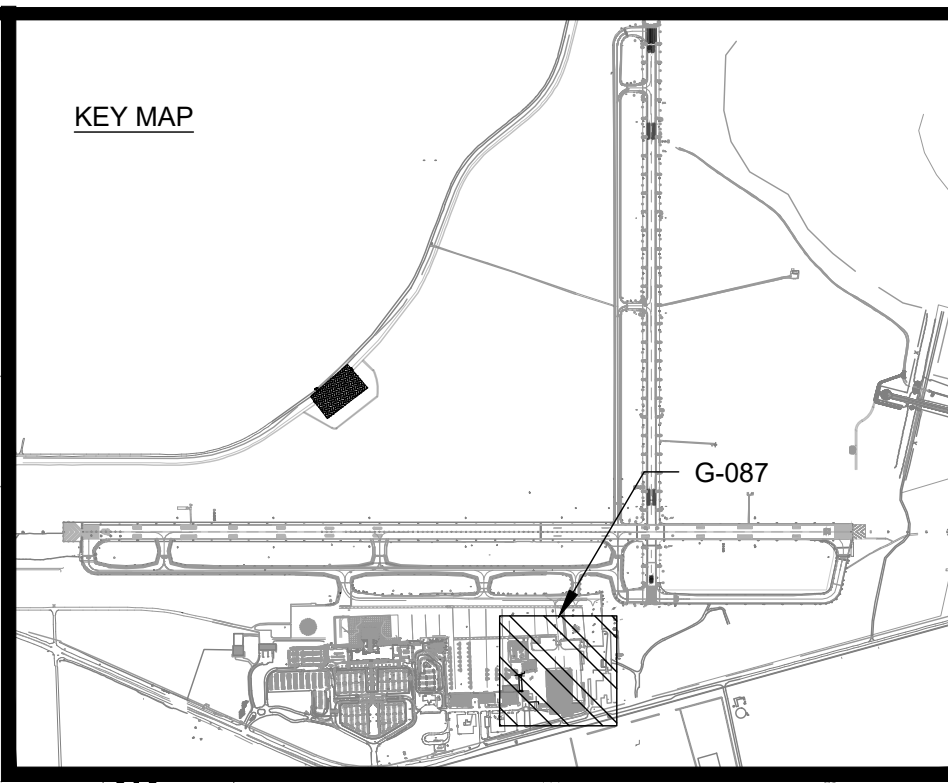
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CARES: 3-13-0011-045-2020
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SHEET CONTENTS
 CONSTRUCTION
 SAFETY & PHASING
 PLAN - WA 2B

SHEET NO.

G-087



LEGEND

- RPZ — RUNWAY PROTECTION ZONE
- ↔ ↔ TEMPORARY HAUL ROUTE
- XXXXXXXXXX LOW-PROFILE BARRICADES
- WORK AREA 1A
- RADIO PERSONNEL/FLAGGER
- AIRCRAFT ACCESS

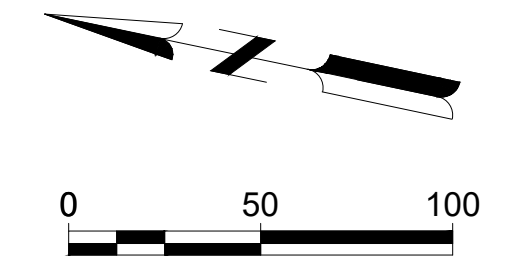
WORK SCHEDULE PHASING

- WA 2B WORK AREA 2B (30 CALENDAR DAYS)

- NOTES:**
- CONSTRUCTION WITHIN WORK AREA 2B SHALL BE SEQUENCED AND PHASED AS NECESSARY TO COMPLY WITH PROVISIONS CONTAINED IN THE CONTRACT DOCUMENTS. WORK IN WORK AREA 2B SHALL NOT BEGIN UNTIL THE WORK IN WORK AREA 1C IS COMPLETE.
 - CONSTRUCTION STAGING AND EQUIPMENT PARKING SHALL BE IN THE DESIGNATED AREAS ONLY OR AS OTHERWISE APPROVED BY THE AIRPORT AND CA TEAM.
 - WHILE WORKING IN WORK AREA 2B, CONTRACTOR SHALL PROVIDE RADIO PERSONNEL. SEE CONSTRUCTION SAFETY AND PHASING PLAN (CSPP) FOR FURTHER INFORMATION ON THE REQUIRED TRAINING OF CONTRACTOR PERSONNEL WORKING INSIDE THE AIRPORT OPERATIONS AREA.
 - CONTRACTOR TO ACCESS WORK AREA 2B 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.
 - THE CONTRACTOR SHALL INCLUDE THE COST TO REPLACE TEMPORARILY REMOVED MARKINGS IN THE COST OF TEMPORARY STRIPING OR MARKING.
 - DURING NIGHT WORK, CONTRACTOR TO PLACE AND AIM WORK LIGHTS SO THAT THEY FACE AWAY FROM ATCT.
 - PRIOR TO THE OPENING OF WORK AREA 2B, THE AREA SHALL BE SWEEPED CLEAN OF ALL FOD (FOREIGN OBJECT DEBRIS - ROCKS, DEBRIS, EQUIPMENT, ETC.). THE AIRPORT SHALL PERFORM AN INSPECTION AND APPROVE THE WORK AREA BEFORE THE LOW PROFILE BARRICADES ARE REMOVED.

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WORK AREA	GENERAL WORK SCOPE	AFFECTED AOA	WORK HOURS	CALENDAR DAYS	SAFETY AND SECURITY
WA 2B	THE DEMOLITION OF APPROXIMATELY 3,250 SY (E) ASPHALT AND INSTALLATION OF APPROXIMATELY 700 TONS OF ASPHALT.	STANDARD AERO RAMP AND SOUTH RAMP	24 HOURS	30	<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.



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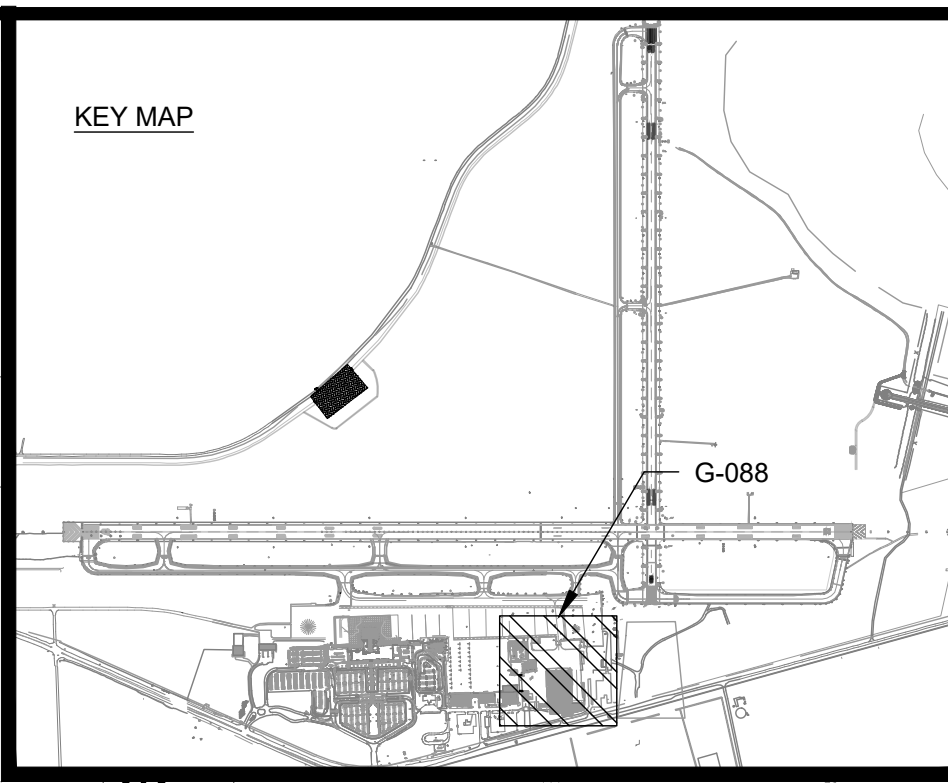
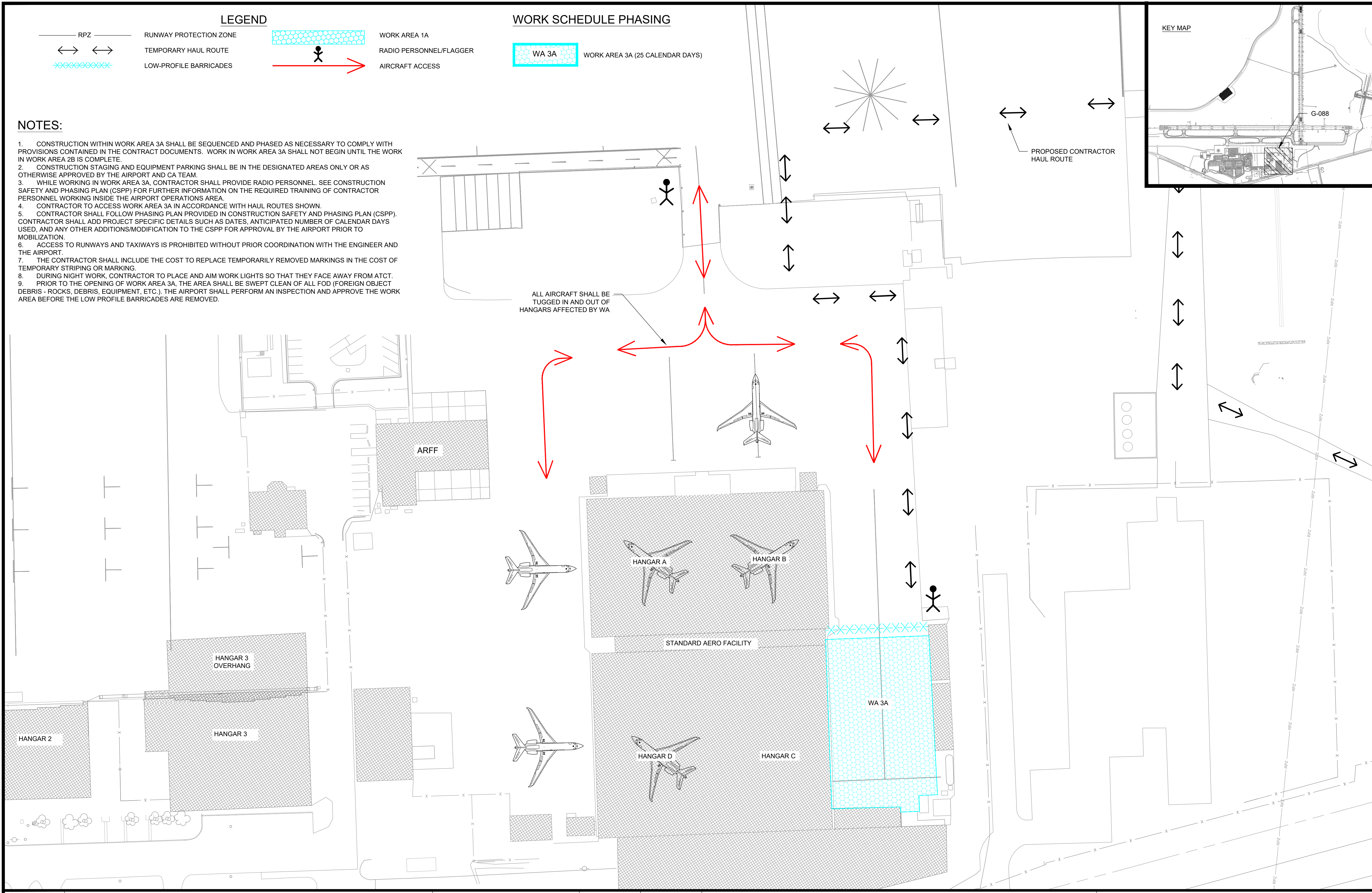
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SHEET CONTENTS
CONSTRUCTION
SAFETY & PHASING
PLAN - WA 3A

SHEET NO.



LEGEND

- RPZ RUNWAY PROTECTION ZONE
- ← → ← → TEMPORARY HAUL ROUTE
- XXXXXXXXXX LOW-PROFILE BARRICADES
- WORK AREA 1A
- RADIO PERSONNEL/FLAGGER
- AIRCRAFT ACCESS

WORK SCHEDULE PHASING

- WA 3A WORK AREA 3A (25 CALENDAR DAYS)

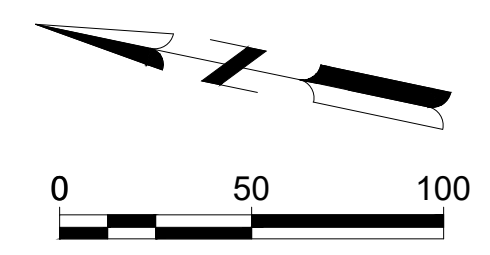
NOTES:

1. CONSTRUCTION WITHIN WORK AREA 3A SHALL BE SEQUENCED AND PHASED AS NECESSARY TO COMPLY WITH PROVISIONS CONTAINED IN THE CONTRACT DOCUMENTS. WORK IN WORK AREA 3A SHALL NOT BEGIN UNTIL THE WORK IN WORK AREA 2B IS COMPLETE.
2. CONSTRUCTION STAGING AND EQUIPMENT PARKING SHALL BE IN THE DESIGNATED AREAS ONLY OR AS OTHERWISE APPROVED BY THE AIRPORT AND CA TEAM.
3. WHILE WORKING IN WORK AREA 3A, CONTRACTOR SHALL PROVIDE RADIO PERSONNEL. SEE CONSTRUCTION SAFETY AND PHASING PLAN (CSPP) FOR FURTHER INFORMATION ON THE REQUIRED TRAINING OF CONTRACTOR PERSONNEL WORKING INSIDE THE AIRPORT OPERATIONS AREA.
4. CONTRACTOR TO ACCESS WORK AREA 3A IN ACCORDANCE WITH HAUL ROUTES SHOWN.
5. 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 DETAILS TO THE CSPP FOR APPROVAL BY THE AIRPORT PRIOR TO MOBILIZATION.
6. ACCESS TO RUNWAYS AND TAXIWAYS IS PROHIBITED WITHOUT PRIOR COORDINATION WITH THE ENGINEER AND THE AIRPORT.
7. THE CONTRACTOR SHALL INCLUDE THE COST TO REPLACE TEMPORARILY REMOVED MARKINGS IN THE COST OF TEMPORARY STRIPING OR MARKING.
8. DURING NIGHT WORK, CONTRACTOR TO PLACE AND AIM WORK LIGHTS SO THAT THEY FACE AWAY FROM ATCT.
9. PRIOR TO THE OPENING OF WORK AREA 3A, THE AREA SHALL BE SWEEPED CLEAN OF ALL FOD (FOREIGN OBJECT DEBRIS - ROCKS, DEBRIS, EQUIPMENT, ETC.). THE AIRPORT SHALL PERFORM AN INSPECTION AND APPROVE THE WORK AREA BEFORE THE LOW PROFILE BARRICADES ARE REMOVED.

ALL AIRCRAFT SHALL BE TUGGED IN AND OUT OF HANGARS AFFECTED BY WA

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WORK AREA	GENERAL WORK SCOPE	AFFECTED AOA	WORK HOURS	CALENDAR DAYS	SAFETY AND SECURITY
WA 3A	THE DEMOLITION OF APPROXIMATELY 2,400 SY (E) ASPHALT AND INSTALLATION OF APPROXIMATELY 505 TONS OF ASPHALT.	STANDARD AERO RAMP AND SOUTH RAMP	24 HOURS	25	<ol style="list-style-type: none"> 1. THE CONTRACTOR SHALL INSTALL LOW-PROFILE BARRICADES AS SHOWN. 2. THE CONTRACTOR SHALL NOTIFY THE AIRPORT AT LEAST 5 DAYS IN ADVANCE OF WORK FOR NOTAM OF CONSTRUCTION ACTIVITY TO BE POSTED. 3. 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.



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**AUGUSTA REGIONAL AIRPORT
 REHABILITATION OF STANDARD
 AERO RAMP**
 1501 AVIATION WAY
 AUGUSTA, GA 30906-9620

ISSUED FOR BID

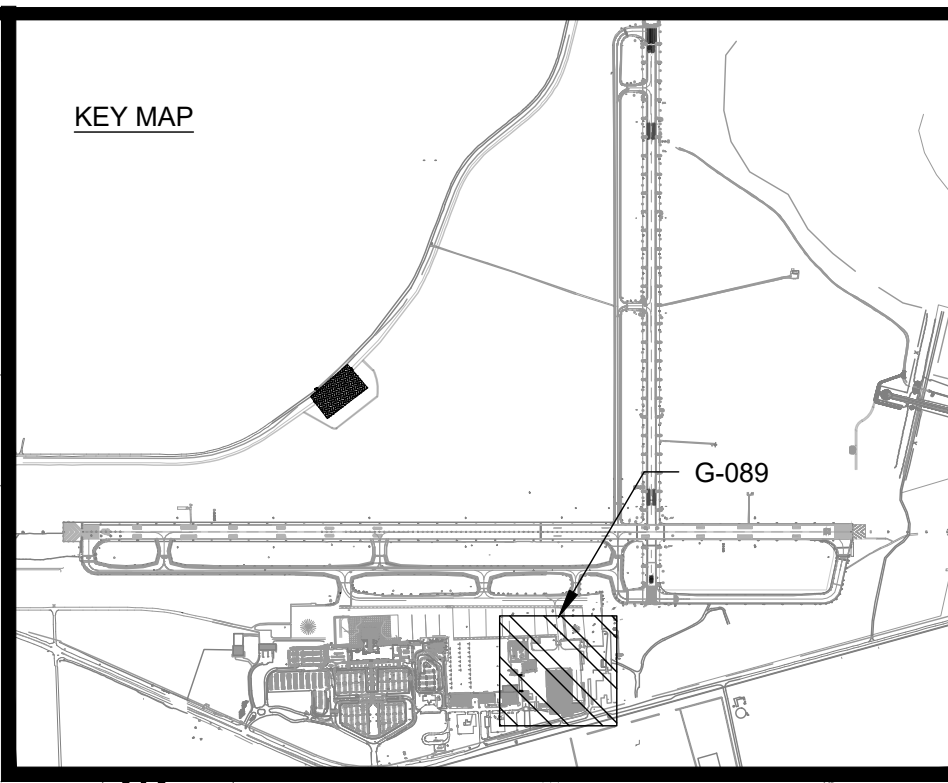
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SHEET CONTENTS
 CONSTRUCTION
 SAFETY & PHASING
 PLAN - WA 3B

SHEET NO.

G-089



WORK SCHEDULE PHASING

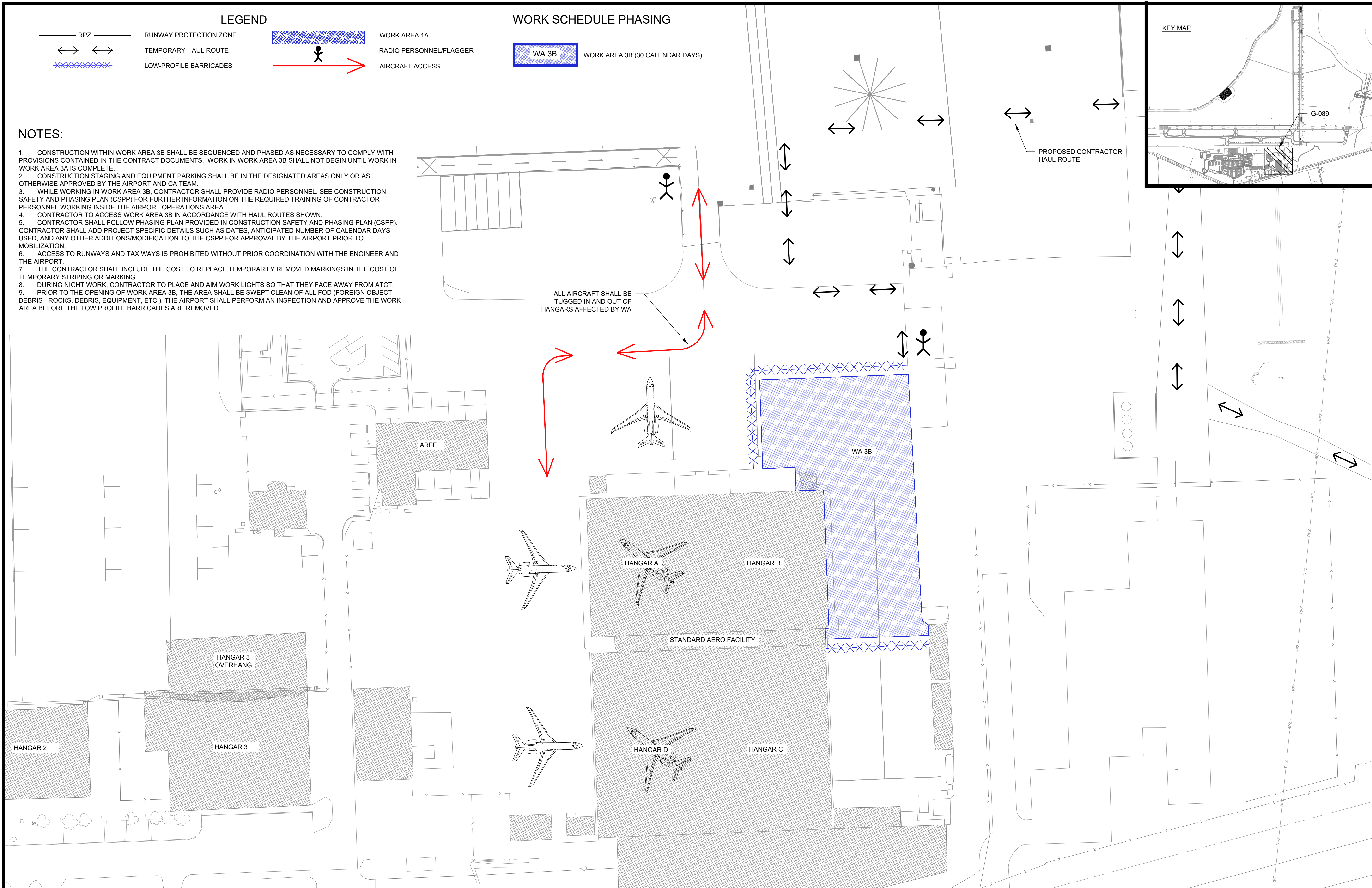


LEGEND

- RPZ RUNWAY PROTECTION ZONE
- TEMPORARY HAUL ROUTE
- LOW-PROFILE BARRICADES
- WORK AREA 1A
- RADIO PERSONNEL/FLAGGER
- AIRCRAFT ACCESS

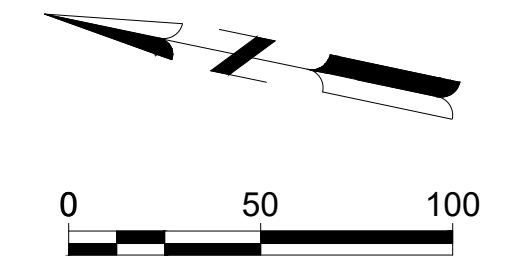
NOTES:

1. CONSTRUCTION WITHIN WORK AREA 3B SHALL BE SEQUENCED AND PHASED AS NECESSARY TO COMPLY WITH PROVISIONS CONTAINED IN THE CONTRACT DOCUMENTS. WORK IN WORK AREA 3B SHALL NOT BEGIN UNTIL WORK IN WORK AREA 3A IS COMPLETE.
2. CONSTRUCTION STAGING AND EQUIPMENT PARKING SHALL BE IN THE DESIGNATED AREAS ONLY OR AS OTHERWISE APPROVED BY THE AIRPORT AND CA TEAM.
3. WHILE WORKING IN WORK AREA 3B, CONTRACTOR SHALL PROVIDE RADIO PERSONNEL. SEE CONSTRUCTION SAFETY AND PHASING PLAN (CSPP) FOR FURTHER INFORMATION ON THE REQUIRED TRAINING OF CONTRACTOR PERSONNEL WORKING INSIDE THE AIRPORT OPERATIONS AREA.
4. CONTRACTOR TO ACCESS WORK AREA 3B IN ACCORDANCE WITH HAUL ROUTES SHOWN.
5. 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.
6. ACCESS TO RUNWAYS AND TAXIWAYS IS PROHIBITED WITHOUT PRIOR COORDINATION WITH THE ENGINEER AND THE AIRPORT.
7. THE CONTRACTOR SHALL INCLUDE THE COST TO REPLACE TEMPORARILY REMOVED MARKINGS IN THE COST OF TEMPORARY STRIPING OR MARKING.
8. DURING NIGHT WORK, CONTRACTOR TO PLACE AND AIM WORK LIGHTS SO THAT THEY FACE AWAY FROM ATCT.
9. PRIOR TO THE OPENING OF WORK AREA 3B, THE AREA SHALL BE SWEEPED CLEAN OF ALL FOD (FOREIGN OBJECT DEBRIS - ROCKS, DEBRIS, EQUIPMENT, ETC.). THE AIRPORT SHALL PERFORM AN INSPECTION AND APPROVE THE WORK AREA BEFORE THE LOW PROFILE BARRICADES ARE REMOVED.



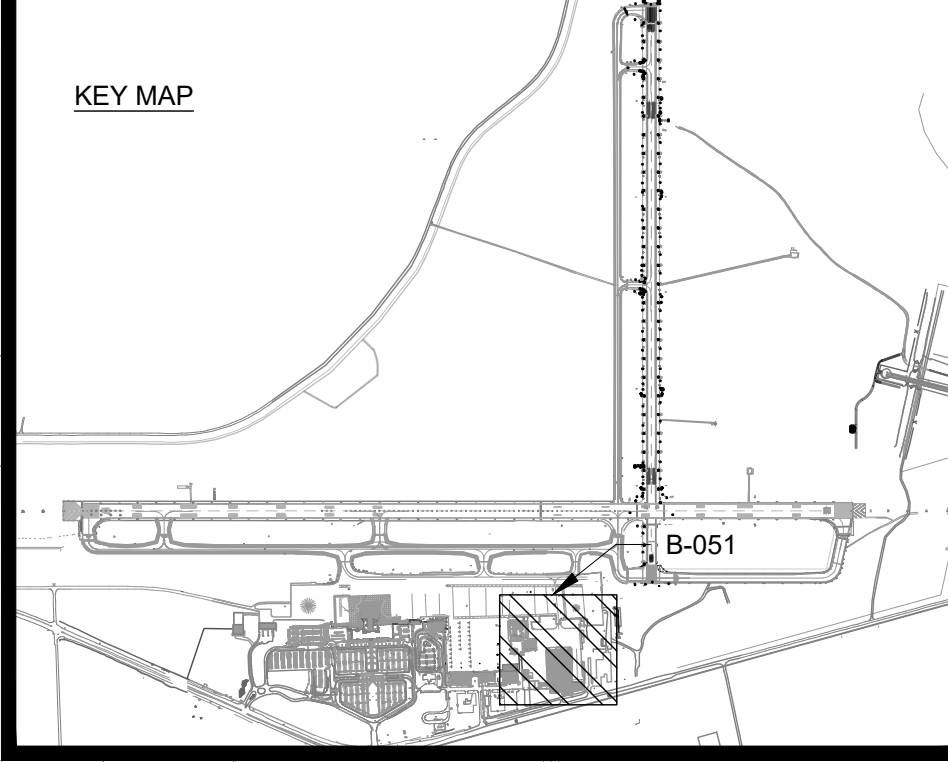
ALL AIRCRAFT SHALL BE TUGGED IN AND OUT OF HANGARS AFFECTED BY WA

WORK AREA	GENERAL WORK SCOPE	AFFECTED AOA	WORK HOURS	CALENDAR DAYS	SAFETY AND SECURITY
WA 3B	THE DEMOLITION OF APPROXIMATELY 4,000 SY (E) ASPHALT AND INSTALLATION OF APPROXIMATELY 855 TONS OF ASPHALT.	STANDARD AERO RAMP AND SOUTH RAMP	24 HOURS	35	1. THE CONTRACTOR SHALL INSTALL LOW-PROFILE BARRICADES AS SHOWN. 2. THE CONTRACTOR SHALL NOTIFY THE AIRPORT AT LEAST 5 DAYS IN ADVANCE OF WORK FOR NOTAM OF CONSTRUCTION ACTIVITY TO BE POSTED. 3. 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.



X:\0119700\202062.01\TECH\CAD\DRAWINGS\G-089 CONSTRUCTION SAFETY & PHASING PLAN.DWG 4/19/2022 12:01:26 PM

X:\0119700\202062.01\TECH\DRAWINGS\B-051 BORING PLAN.DWG
4/19/2022 12:01:54 PM



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



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**AUGUSTA REGIONAL AIRPORT
 REHABILITATION OF STANDARD
 AERO RAMP**
 1501 AVIATION WAY
 AUGUSTA, GA 30906-9620

ISSUED
 ISSUED FOR BID

NOT FOR CONSTRUCTION

CARES: 3-13-0011-045-2020
 M&H NO: 0119700-202062.01
 DATE: APRIL 22, 2022
 DESIGNED BY: NJH
 DRAWN BY: NJH
 CHECKED BY: DES
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SHEET CONTENTS
 BORING PLAN

SHEET NO.

B-051

PROJECT AGS Rehab of Standard Aero Ramp BORING NO. B-1
 LOCATION Augusta Regional Airport, Augusta, Georgia DATE November 6, 2020

DEPTH FEET	VISUAL SOIL DESCRIPTION	PENETRATION VALUE (N)	VISUAL UNIFIED CLASS.	PERCENT MOISTURE
	Very Firm, Reddish-Tan Clayey Sand (Fill)	28 @ 1'	SC	11.1%
	Very Firm, Dark Gray Silty Sand		SM	
5'	Firm, Gray and Tan Sandy Clayey Silt (Wet)	8 @ 3.5'	ML	
	Very Stiff, Gray and Red Sandy Silty Clay		ML	
10'	Very Firm, Reddish-Tan Silty Sand	28 @ 8.5'	SM	
	Very Stiff, Gray and Tan Sandy Clayey Silt		ML	
Boring Terminated at 10 feet. Upper 13" is Asphalt (6") and Graded Aggregate Base (7").				

N Value is number of blows of 140 pound hammer required to drive 2" split-tube sampler one foot after seated.
 NO WATER TABLE AT TIME OF BORING

PROJECT AGS Rehab of Standard Aero Ramp BORING NO. B-2
 LOCATION Augusta Regional Airport, Augusta, Georgia DATE November 6, 2020

DEPTH FEET	VISUAL SOIL DESCRIPTION	PENETRATION VALUE (N)	VISUAL UNIFIED CLASS.	PERCENT MOISTURE
	Loose, Brown and Tan Silty Sand	5 @ 1'	SM	19.0%
	Firm, Tan and Red Sandy Clayey Silt (Moist)		ML	
5'	Loose, Tan Silty Sand	7 @ 3.5'	SM	
	Very Stiff, Tan, Red, and Gray Sandy Clayey Silt		ML	
10'	Very Stiff, Tan, Red, and Gray Sandy Clayey Silt	23 @ 6'	ML	
	Very Stiff, Tan, Red, and Gray Sandy Clayey Silt		ML	
Boring Terminated at 10 feet. Upper 2.25" is Asphalt.				

N Value is number of blows of 140 pound hammer required to drive 2" split-tube sampler one foot after seated.
 NO WATER TABLE AT TIME OF BORING

PROJECT AGS Rehab of Standard Aero Ramp BORING NO. B-3
 LOCATION Augusta Regional Airport, Augusta, Georgia DATE November 6, 2020

DEPTH FEET	VISUAL SOIL DESCRIPTION	PENETRATION VALUE (N)	VISUAL UNIFIED CLASS.	PERCENT MOISTURE
	Very Firm, Reddish-Tan Clayey Sand (Fill)	23 @ 1'	SC	9.9%
	Very Firm, Brownish-Tan and Gray Silty Sand		SM	
5'	Very Stiff, Tan, Gray, and Red Sandy Clayey Silt (Moist)	16 @ 3.5'	ML	
	Very Stiff, Tan, Red, and Gray Sandy Clayey Silt		ML	
10'	Very Stiff, Tan, Red, and Gray Sandy Clayey Silt	25 @ 8.5'	ML	
	Very Stiff, Tan, Red, and Gray Sandy Clayey Silt		ML	
Boring Terminated at 10 feet. Upper 10.5" is Asphalt (4") and Graded Aggregate Base (6.5").				

N Value is number of blows of 140 pound hammer required to drive 2" split-tube sampler one foot after seated.
 NO WATER TABLE AT TIME OF BORING

PROJECT AGS Rehab of Standard Aero Ramp BORING NO. B-4
 LOCATION Augusta Regional Airport, Augusta, Georgia DATE November 5, 2020

DEPTH FEET	VISUAL SOIL DESCRIPTION	PENETRATION VALUE (N)	VISUAL UNIFIED CLASS.	PERCENT MOISTURE
	Firm, Brownish-Tan and Brown Silty Sand	11 @ 1'	SM	16.3%
	Stiff, Tan and Red Sandy Clayey Silt		ML	
5'	Very Stiff to Hard, Tan, Gray, and Red Sandy Clayey Silt	29 @ 3.5'	ML	
	Very Stiff to Hard, Tan, Gray, and Red Sandy Clayey Silt		ML	
10'	Very Stiff, Reddish-Tan Sandy Silt	39 @ 6'	ML	
	Very Stiff, Reddish-Tan Sandy Silt		ML	
Boring Terminated at 10 feet. Upper 6" is Concrete.				

N Value is number of blows of 140 pound hammer required to drive 2" split-tube sampler one foot after seated.
 NO WATER TABLE AT TIME OF BORING

PROJECT AGS Rehab of Standard Aero Ramp BORING NO. B-5
 LOCATION Augusta Regional Airport, Augusta, Georgia DATE November 5, 2020

DEPTH FEET	VISUAL SOIL DESCRIPTION	PENETRATION VALUE (N)	VISUAL UNIFIED CLASS.	PERCENT MOISTURE
	Loose, Reddish-Tan Clayey Silty Sand (Fill)	5 @ 1'	SC	17.6%
	Loose, Brown and Tan Silty Sand		SM	
5'	Soft, Reddish-Tan and Gray Sandy Clayey Silt	3 @ 3.5'	ML	
	Hard, Gray and Red Sandy Clayey Silt		ML	
10'	Very Firm, Reddish-Tan Silty Sand	38 @ 6'	SM	
	Very Firm, Reddish-Tan Silty Sand		SM	
Boring Terminated at 10 feet. Upper 11" is Asphalt (5.25") and Graded Aggregate Base (5.75").				

N Value is number of blows of 140 pound hammer required to drive 2" split-tube sampler one foot after seated.
 NO WATER TABLE AT TIME OF BORING

PROJECT AGS Rehab of Standard Aero Ramp BORING NO. B-6
 LOCATION Augusta Regional Airport, Augusta, Georgia DATE November 4, 2020

DEPTH FEET	VISUAL SOIL DESCRIPTION	PENETRATION VALUE (N)	VISUAL UNIFIED CLASS.	PERCENT MOISTURE
	Firm, Reddish-Tan Clayey Sand (Fill)	18 @ 1'	SC	12.4%
	Firm, Brownish-Tan Silty Sand		SM	
5'	Very Stiff, Tan, Gray, and Red Sandy Clayey Silt	18 @ 3.5'	ML	
	Very Stiff, Tan, Gray, and Red Sandy Clayey Silt		ML	
10'	Very Stiff, Gray and Tan Sandy Clayey Silt	22 @ 6'	ML	
	Very Stiff, Gray and Tan Sandy Clayey Silt		ML	
Boring Terminated at 10 feet. Upper 8" is Asphalt (6") and Graded Aggregate Base (2").				

N Value is number of blows of 140 pound hammer required to drive 2" split-tube sampler one foot after seated.
 NO WATER TABLE AT TIME OF BORING



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 REHABILITATION OF STANDARD
 AERO RAMP
 1501 AVIATION WAY
 AUGUSTA, GA 30906-9620**

ISSUED FOR BID

NOT FOR CONSTRUCTION

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SHEET CONTENTS
 BORING LOGS

SHEET NO.

B-052

PROJECT AGS Rehab of Standard Aero Ramp BORING NO. B-7
 LOCATION Augusta Regional Airport, Augusta, Georgia DATE November 4, 2020

DEPTH FEET	VISUAL SOIL DESCRIPTION	PENETRATION VALUE (N)	VISUAL UNIFIED CLASS.	PERCENT MOISTURE
5'	Firm, Reddish-Tan, Gray, and Brown Silty Sand with Gravel (Fill)	18 @ 1'	SM	12.4%
	Dark Brown and Black Silty Sand	29 @ 3.5'	SM	
	Very Firm, Grayish-Tan Silty Sand	27 @ 6'	SM	
10'	Very Stiff, Tan and Gray Sandy Clayey Silt	40 @ 8.5'	ML	
	Dense, Tan and Red Silty Sand		SM	
Boring Terminated at 10 feet. Upper 13" is Asphalt (5.5") and Graded Aggregate Base (7.5").				

N Value is number of blows of 140 pound hammer required to drive 2" split-tube sampler one foot after seated.
 NO WATER TABLE AT TIME OF BORING

PROJECT AGS Rehab of Standard Aero Ramp BORING NO. B-8
 LOCATION Augusta Regional Airport, Augusta, Georgia DATE November 4, 2020

DEPTH FEET	VISUAL SOIL DESCRIPTION	PENETRATION VALUE (N)	VISUAL UNIFIED CLASS.	PERCENT MOISTURE
5'	Firm, Reddish-Tan Silty Sand (Fill)	27 @ 1'	SM	11.1%
	Very Firm, Grayish-Tan Clayey Sand		SC	
	Very Stiff, Tan and Red Sandy Clayey Silt	23 @ 3.5'	ML	
10'	Hard, Tan and Gray Sandy Clayey Silt	39 @ 6'	ML	
	Very Firm, Tan, Red, and Gray Silty Sand	23 @ 8.5'	SM	
Boring Terminated at 10 feet. Upper 12" is Asphalt (8") and Graded Aggregate Base (4").				

N Value is number of blows of 140 pound hammer required to drive 2" split-tube sampler one foot after seated.
 NO WATER TABLE AT TIME OF BORING

PROJECT AGS Rehab of Standard Aero Ramp BORING NO. B-9
 LOCATION Augusta Regional Airport, Augusta, Georgia DATE November 4, 2020

DEPTH FEET	VISUAL SOIL DESCRIPTION	PENETRATION VALUE (N)	VISUAL UNIFIED CLASS.	PERCENT MOISTURE
5'	Loose, Reddish-Tan Silty Sand (Fill)	24 @ 1'	SM	11.1%
	Very Firm, Dark Brown Silty Sand		SM	
	Dense, Brownish-Tan Silty Sand	32 @ 3.5'	SM	
10'	Firm, Dark Brown and Black Silty Sand	18 @ 6'	SM	
	Very Stiff, Reddish-Tan and Gray Sandy Clayey Silt	22 @ 8.5'	ML	
Boring Terminated at 10 feet. Upper 6" is Asphalt (5") and Graded Aggregate Base (3").				

N Value is number of blows of 140 pound hammer required to drive 2" split-tube sampler one foot after seated.
 NO WATER TABLE AT TIME OF BORING

PROJECT AGS Rehab of Standard Aero Ramp BORING NO. B-10
 LOCATION Augusta Regional Airport, Augusta, Georgia DATE November 4, 2020

DEPTH FEET	VISUAL SOIL DESCRIPTION	PENETRATION VALUE (N)	VISUAL UNIFIED CLASS.	PERCENT MOISTURE
5'	Very Firm, Reddish-Tan Silty Sand (Fill)	28 @ 1'	SM	6.4%
	Very Firm, Brownish-Tan Clayey Silty Sand	25 @ 3.5'	SC	
	Hard, Tan and Gray Sandy Clayey Silt	36 @ 6'	ML	
10'	Very Stiff, Gray Sandy Clayey Silt	25 @ 8.5'	ML	
	Boring Terminated at 10 feet. Upper 7" is Asphalt (3") and Graded Aggregate Base (4").			

N Value is number of blows of 140 pound hammer required to drive 2" split-tube sampler one foot after seated.
 NO WATER TABLE AT TIME OF BORING

PROJECT AGS Rehab of Standard Aero Ramp BORING NO. B-11
 LOCATION Augusta Regional Airport, Augusta, Georgia DATE November 4, 2020

DEPTH FEET	VISUAL SOIL DESCRIPTION	PENETRATION VALUE (N)	VISUAL UNIFIED CLASS.	PERCENT MOISTURE
5'	Very Firm, Reddish-Tan Silty Sand (Fill)	22 @ 1'	SM	9.9%
	Brownish-Tan Silty Sand	28 @ 3.5'	SM	
	Very Stiff, Tan, Red, and Gray Sandy Clayey Silt	29 @ 6'	ML	
10'	Firm, Reddish-Tan Silty Sand with Gray ML Layers	18 @ 8.5'	SM	
	Boring Terminated at 10 feet. Upper 12" is Asphalt (6.5") and Graded Aggregate Base (5.5").			

N Value is number of blows of 140 pound hammer required to drive 2" split-tube sampler one foot after seated.
 NO WATER TABLE AT TIME OF BORING

PROJECT AGS Rehab of Standard Aero Ramp BORING NO. B-12
 LOCATION Augusta Regional Airport, Augusta, Georgia DATE November 4, 2020

DEPTH FEET	VISUAL SOIL DESCRIPTION	PENETRATION VALUE (N)	VISUAL UNIFIED CLASS.	PERCENT MOISTURE
5'	Very Firm, Reddish-Tan Silty Sand (Fill)	29 @ 1'	SM	8.7%
	Firm, Grayish-Tan Silty Sand	11 @ 3.5'	SM	
	Very Stiff, Gray and Red Sandy Clayey Silt	30 @ 6'	ML	
10'	Very Stiff, Gray and Tan Sandy Silt	27 @ 8.5'	ML	
	Boring Terminated at 10 feet. Upper 12" is Asphalt (5") and Graded Aggregate Base (7").			

N Value is number of blows of 140 pound hammer required to drive 2" split-tube sampler one foot after seated.
 NO WATER TABLE AT TIME OF BORING



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SHEET CONTENTS
 BORING LOGS

SHEET NO.

B-053

PROJECT AGS Rehab of Standard Aero Ramp BORING NO. B-13
 LOCATION Augusta Regional Airport, Augusta, Georgia DATE November 5, 2020

DEPTH FEET	VISUAL SOIL DESCRIPTION	PENETRATION VALUE (N)	VISUAL UNIFIED CLASS.	PERCENT MOISTURE
	Firm, Reddish-Tan Clayey Silty Sand (Fill)	16 @ 1'	SC	11.1%
	Firm, Brownish-Tan and Gray Slightly Clayey Silty Sand	15 @ 3.5'	SM	
5'		19 @ 6'		
	Very Stiff, Gray and Red Sandy Clayey Silt	22 @ 8.5'	ML	
10'	Boring Terminated at 10 feet. Upper 10" is Asphalt (6.5") and Graded Aggregate Base (3.5")			
15'				
20'				
25'				
30'				
35'				
40'				

N Value is number of blows of 140 pound hammer required to drive 2" split-tube sampler one foot after seated.
 NO WATER TABLE AT TIME OF BORING

PROJECT AGS Rehab of Standard Aero Ramp BORING NO. B-14
 LOCATION Augusta Regional Airport, Augusta, Georgia DATE November 5, 2020

DEPTH FEET	VISUAL SOIL DESCRIPTION	PENETRATION VALUE (N)	VISUAL UNIFIED CLASS.	PERCENT MOISTURE
	Firm, Reddish-Tan Slightly Clayey Silty Sand (Fill)	18 @ 1'	SM	9.9%
	Firm, Tan Silty Sand	13 @ 3.5'	SM	
5'		14 @ 6'		
	Stiff to Very Stiff, Tan, Red, and Gray Sandy Clayey Silt	19 @ 8.5'	ML	
10'	Boring Terminated at 10 feet. Upper 12" is Asphalt (6") and Graded Aggregate Base (6").			
15'				
20'				
25'				
30'				
35'				
40'				

N Value is number of blows of 140 pound hammer required to drive 2" split-tube sampler one foot after seated.
 NO WATER TABLE AT TIME OF BORING

PROJECT AGS Rehab of Standard Aero Ramp BORING NO. B-15
 LOCATION Augusta Regional Airport, Augusta, Georgia DATE November 5, 2020

DEPTH FEET	VISUAL SOIL DESCRIPTION	PENETRATION VALUE (N)	VISUAL UNIFIED CLASS.	PERCENT MOISTURE
	Firm, Brownish-Tan Silty Sand	14 @ 1'	SM	12.4%
	Firm to Loose, Grayish-Tan Clayey Sand	8 @ 3.5'	SC	
5'		4 @ 6'	SC	
	Very Loose, Tan, Red, and Gray Very Clayey Sand (Moist)		SM	
	Very Loose, Dark Brown Silty Sand with Gravel	28 @ 8.5'	ML	
10'	Boring Terminated at 10 feet. Upper 12.25" is Asphalt (3.75") and Graded Aggregate Base (8.5")			
15'				
20'				
25'				
30'				
35'				
40'				

N Value is number of blows of 140 pound hammer required to drive 2" split-tube sampler one foot after seated.
 NO WATER TABLE AT TIME OF BORING

PROJECT AGS Rehab of Standard Aero Ramp BORING NO. B-16
 LOCATION Augusta Regional Airport, Augusta, Georgia DATE November 5, 2020

DEPTH FEET	VISUAL SOIL DESCRIPTION	PENETRATION VALUE (N)	VISUAL UNIFIED CLASS.	PERCENT MOISTURE
	Very Firm, Dark Brown Silty Sand	27 @ 1'	SM	13.6%
	Very Firm, Grayish-Tan and Red Very Clayey Sand	24 @ 3.5'	SC	
5'		33 @ 6'	ML	
	Hard, Reddish-Tan and Gray Silty Clayey Silt		SM	
	Dense, Reddish-Tan Silty Sand	33 @ 8.5'		
10'	Boring Terminated at 10 feet. Upper 12" is Asphalt (6") and Graded Aggregate Base (6").			
15'				
20'				
25'				
30'				
35'				
40'				

N Value is number of blows of 140 pound hammer required to drive 2" split-tube sampler one foot after seated.
 NO WATER TABLE AT TIME OF BORING

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SHEET CONTENTS
 BORING LOGS

SHEET NO.

B-054

PROJECT NAME: AUGUSTA REGIONAL AIRPORT REHABILITATION OF STANDARD AERORAMP
ADDRESS: 1501 AVIATION WAY
CITY/COUNTY: AUGUSTA/RICHMOND COUNTY ZIP CODE 30906
DATE ON PLANS: APRIL 22, 2022

GAR 100001 STAND ALONE GAR 100002 INFRASTRUCTURE GAR 100003 COMMON DEVELOPMENTS

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.

2. LEVEL II CERTIFICATION: NAME: MITCHELL B. MURCHISON NO.#. 46296 EXP. DATE: 11/01/2022

3. LIMITS OF DISTURBANCE IS LESS THAN 50 ACRES.

4. 24 HOUR CONTACT: TIM WEEGAR
706-796-4009
TWEEGAR@AUGUSTA.GA.GOV

5. PRIMARY PERMITEE: AUGUSTA REGIONAL AIRPORT
1550 HANGAR ROAD
AUGUSTA, GA 30906
706-796-3236
TWEEGAR@AUGUSTA.GA.GOV

6. TOTAL DISTURBED ACREAGE OF THIS PROJECT: 4.82 ACRES
TOTAL PROJECT ACREAGE: 4.82 ACRES

7. CONSTRUCTION EXIT: N33.367133
W81.973215

8. THE INITIAL DATE ON PLANS IS APRIL 22, 2022. REVISIONS ARE TO BE RESUBMITTED TO THE LOCAL ISSUING AUTHORITY, THE ENTITY REQUESTING THE REVISIONS, THE DATE THE CHANGE WAS MADE, AND THE NATURE OF THE CHANGE WILL BE DENOTED IN THE DESIGNATED AREA ON THE PLAN SHEET.

9. NATURE OF CONSTRUCTION ACTIVITY: MILL AND OVERLAY OF EXISTING ASPHALT.

10. VICINITY MAP IS PROVIDED ON SHEET C-022.

11. PROJECT RECEIVING WATERS:
RECEIVING: TWIGGS DEAD RIVER
ULTIMATE: SAVANNAH RIVER

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

LEVEL II CERTIFICATION: NAME: MITCHELL B. MURCHISON NO.#. 46296 EXP. DATE: 11/01/2022

13. "I CERTIFY THAT THE PERMITEE'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 STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SURFACE OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. 100001."

LEVEL II CERTIFICATION: NAME: MITCHELL B. MURCHISON NO.#. 46296 EXP. DATE: 11/01/2022

14. 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. THE PRIMARY PERMITEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE PLAN, EXCEPT WHEN THE PRIMARY PERMITEE HAS REQUESTED IN WRITING AND EPD HAS AGREED TO AN ALTERNATE DESIGN PROFESSIONAL, TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WHICH THE DESIGN PROFESSIONAL DESIGNED WITHIN SEVEN (7) DAYS AFTER INSTALLATION. THE DESIGN PROFESSIONAL SHALL DETERMINE IF THESE BMPs HAVE BEEN INSTALLED AND ARE BEING MAINTAINED AS DESIGNED. THE DESIGN PROFESSIONAL SHALL REPORT THE RESULTS OF THE INSPECTION TO THE PRIMARY PERMITEE WITHIN SEVEN (7) DAYS AND THE PERMITEE MUST CORRECT ALL DEFICIENCIES WITHIN TWO (2) BUSINESS DAYS OF RECEIPT OF THE INSPECTION REPORT FROM THE DESIGN PROFESSIONAL UNLESS WEATHER RELATED SITE CONDITIONS ARE SUCH THAT ADDITIONAL TIME IS REQUIRED.

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.

16. THERE ARE NO BUFFER ENCROACHMENTS ON THIS PROJECT. IF YES, REFER TO SHEET(S) N/A FOR BUFFER DESCRIPTIONS.

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.

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

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.

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.

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

22. ANY CONSTRUCTION ACTIVITY WHICH DISCHARGES STORM WATER INTO AN IMPAIRED STREAM SEGMENT, OR WITHIN A LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF AN BIOTA IMPAIRED STREAM SEGMENT MUST COMPLY WITH PART III. C OF THE PERMIT, INCLUDE THE COMPLETED APPENDIX I LISTING ALL THE BMPs THAT WILL BE USED FOR THOSE AREAS OF THE SITE WHICH DISCHARGE TO THE IMPAIRED STREAM SEGMENT. THIS DOES NOT APPLY TO THIS PROJECT.

23. A TMDL IMPLEMENTATION PLAN FOR SEDIMENT IS NOT IMPLEMENTED.

24. BMPs FOR CONCRETE WASH-DOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF THE VEHICLES. WASH-OUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

TOOLS

BMPs FOR CONCRETE WASH-DOWN OF THE FOLLOWING:
ALL CONCRETE WASH WATER THAT RESULTS FROM THE WASH-DOWN OF TOOLS USED FOR CONCRETE WORK SHALL BE CONTAINED IN A DESIGNATED CONCRETE WASH-DOWN AREA. DETAIL ON SHEET C-026.

CONCRETE MIXER CHUTES

ALL CONCRETE WASH WATER THAT RESULTS FROM THE RINSING OUT OF CONCRETE MIXER CHUTES SHALL BE CONTAINED IN A DESIGNATED CONCRETE WASH-OUT AREA.

HOPPERS

ALL CONCRETE WASH WATER THAT RESULTS FROM RINSING OUT OF CONCRETE HOPPERS SHALL BE CONTAINED IN A DESIGNATED CONCRETE WASH-OUT AREA.

REAR OF VEHICLES

ALL CONCRETE WASH WATER THAT RESULTS FROM RINSING OUT OF CONCRETE TRUCKS SHALL BE CONTAINED IN A DESIGNATED CONCRETE WASH-OUT AREA.

25. BMPs FOR THE REMEDIATION OF ALL PETROLEUM SPILLS AND LEAKS:

LOCAL, STATE, AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO ALL ON-SITE PERSONNEL.

MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDE, BUT IS NOT LIMITED TO: BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST, AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.

SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.

ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL STATE, AND FEDERAL REGULATIONS.

FOR SPILLS THAT IMPACT SURFACE WATER (I.E. LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24-HOURS AT 1-(800)-426-2675.

FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24-HOURS AT 1-(800)-426-2675.

FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA ENVIRONMENTAL PROTECTION DIVISION (EPD) WILL BE CONTACTED WITHIN 24-HOURS. GA. EPD (404)-656-4863 OR (800)-241-4113 AND THE NATIONAL RESPONSE CENTER AT (800)-424-8802

FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1,320 GALLONS OF PETROLEUM IS STORED ON-SITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. IN SUCH A CASE, THE CONTRACTOR WILL NEED A SPILL PREVENTION, CONTAINMENT, AND COUNTERMEASURES PLAN PREPARED BY A LICENSED PROFESSIONAL.

26. DESCRIPTION OF MEASURES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED:

MEASURES INCLUDE A COMBINATION OF VEGETATED SWALES AND NATURAL DEPRESSIONS FOR FLOW ATTENUATION, LANDSCAPED AND TURF AREAS, AND IMPERVIOUS SURFACES THAT WILL REDUCE SOIL AND SEDIMENT RUNOFF. THESE MEASURES WILL ENSURE THAT THE NATURAL, PHYSICAL, AND BIOLOGICAL CHARACTERISTICS AND FUNCTIONS OF THE WATER COURSE ARE MAINTAINED AND PROTECTED

27. PRACTICES TO PROVIDE COVER FOR BUILDING MATERIALS AND BUILDING PRODUCTS ON SITE:

PETROLEUM BASED PRODUCTS
CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS, AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS, AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINER LINER TO PREVENT/ MINIMIZE SITE CONTAMINATION 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

ALL 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.

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 ON-SITE. ALL SUCH MATERIALS WILL BE DISPOSED OF IN ACCORDANCE WITH PROPER WASTE DISPOSAL PROCEDURES.

BUILDING MATERIALS, PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS SHALL BE COVERED WITH PLASTIC GREEN SHEETING OR TEMPORARY ROOFS IN ORDER TO MINIMIZE EXPOSURE TO PRECIPITATION AND TO STORMWATER.

28. DESCRIPTION OF PRACTICES THAT WILL BE USED TO REDUCE THE POLLUTANTS IN STORM WATER DISCHARGES:

ADHERENCE TO ALL MEASURES SET FORTH IN NOTE 26 & NOTE 36 WILL REDUCE POLLUTANTS IN STORMWATER DISCHARGES.

29. SEE SHEET C-022 FOR DETAILED TIMELINE OF MAJOR CONSTRUCTION ACTIVITIES.

30. DETAILS ON COMPLETE REQUIREMENTS OF INSPECTIONS AND RECORD KEEPING BY PRIMARY PERMITEE:

INSPECTIONS (NPDES GENERAL PERMIT NO. 100001, SEC. IV.D.4.)

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

(2). MEASURE AND RECORD RAINFALL WITHIN THE DISTURBED AREAS OF THE SITE THAT HAVE NOT MET FINAL STABILIZATION CRITERIA EVERY 24 HOURS EXCEPT ON 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 IN 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.

(3). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY (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 PERMITEE'S CONSTRUCTION SITE; (b) AREAS USED BY THE PRIMARY PERMITEE 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 PERMITEE'S SITE SHALL BE OBSERVED TO ENSURE THEY ARE OPERATING CORRECTLY WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE. THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL METHODS 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 PERMITEE MUST COMPLY WITH PART IV.D.4.o.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(4). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITEE) 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.o.(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 THE 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 REPORTS SHALL CONTAIN A CERTIFICATION THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THIS PERMIT.

31. DETAILS ON COMPLETE REQUIREMENTS OF SAMPLING FREQUENCY AND REPORTING OF SAMPLING RESULTS:

SAMPLING FREQUENCY (NPDES GENERAL PERMIT NO. 100001, SEC. IV.D.6.d.)

(1). THE PRIMARY PERMITEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE PERMITEE SHALL SAMPLE THE BEGINNING OF ANY STORMWATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.
(2). HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITEE'S CONTROL, THE PERMITEE 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 PERMITEE SHALL OCCUR FOR THE FOLLOWING EVENTS: (a). FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS * (MONDAY THROUGH FRIDAY, 8:00 A.M. TO 5:00 P.M., AND SATURDAY, 8:00 A.M. TO 5:00 P.M., EXCLUDING ALL NON-WORKING FEDERAL HOLIDAYS); WHEN CONSTRUCTION ACTIVITY IS BEING CONDUCTED BY THE PRIMARY PERMITEE THAT OCCURS AFTER CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION; (b). IN ADDITION TO (a) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS * THAT OCCURS EITHER 90-DAYS AFTER THE FIRST RAINFALL EVENT OR FORTY-FIVE (45) BUSINESS OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION, WHICHEVER COMES FIRST; (c). AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (a) AND (b) ABOVE, IF BMPs ARE FOUND TO BE PROPERLY DESIGNED, INSTALLED AND MAINTAINED, NO FURTHER ACTION IS REQUIRED. IF BMPs IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM 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 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. *NOTE THAT THE PERMITEE 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 MONITORING AT ANY TIME OF THE DAY OR WEEK.

REPORTING (NPDES GENERAL PERMIT NO. 100001, SEC. IV.E.)

THE APPLICABLE PERMITEE'S ARE REQUIRED TO SUBMIT A SUMMARY OF THE MONITORING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE END OF THE REPORTING PERIOD. REPORTING PERIODS AND SAMPLING OPERATIONS TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THAT DESCRIBED IN THIS PERMIT. ALL 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.

(1). 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 PERMITEE 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.
(2). ALL MONITORING RESULTS SHALL INCLUDE THE FOLLOWING INFORMATION: (a). THE DATE, EXACT PLACE, AND TIME OF SAMPLING OR MEASUREMENTS; (b). THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE SAMPLING AND MEASUREMENTS; (c). THE DATE(S) ANALYSES WERE PERFORMED; (d). THE TIME(S) ANALYSES WERE INITIATED; (e). THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE ANALYSES; (f). A COPY OF THE WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED; AND (g). THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS. (h). RESULTS WHICH EXCEED 1,000 NTU SHALL BE REPORTED AS "EXCEEDS 1,000 NTU."

32. DETAILS ON COMPLETE REQUIREMENTS OF RETENTION OF RECORDS BY PRIMARY PERMITEE:

RETENTION OF RECORDS (NPDES GENERAL PERMIT NO. 100001, SEC. IV.F.)

(1). THE PRIMARY PERMITEE 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). A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD; (b). A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT; (c). THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTIONS CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT; (d). A COPY OF ALL MONITORING, SAMPLING, AND REPORTS REQUIRED BY THIS PERMIT; (e). A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.o. OF THIS PERMIT; (f). A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT; AND (g). DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.o.(1)(c) OF THIS PERMIT.
(2). COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, REPORTS, PLANS, MONITORING REPORTS, MONITORING INFORMATION, INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT, AND ALL OTHER DATA COLLECTED FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE RETAINED BY THE PERMITEE 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 PERMITEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATE 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 PERMITEE.

33. DETAILS ON COMPLETE REQUIREMENTS OF SAMPLING ANALYTICAL METHODS BY PRIMARY PERMITEE:

SAMPLE TYPE (NPDES GENERAL PERMIT NO. 100001, SEC. IV.D.6.b.)

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 OTHERWISE PROVIDED BY THE PERMITEE). 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. ANALYTICAL METHODS USED FOR THE COLLECTION AND ANALYSIS OF SAMPLES FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL USE, AT A MINIMUM, THE GUIDELINES SET FORTH IN PART IV.D.6.o. AND PART IV.D.6.b. OF THIS PERMIT.

SAMPLE TYPE (NPDES GENERAL PERMIT NO. 100001, SEC. IV.D.6.c.)

FOR CONSTRUCTION ACTIVITIES, THE PRIMARY PERMITEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). HOWEVER, PROVIDED FOR IN AND IN ACCORDANCE WITH PART IV.D.6.c.(2) OF THIS PERMIT, PRIMARY PERMITTEES ON AN INFRASTRUCTURE CONSTRUCTION PROJECT MAY SAMPLE THE REPRESENTATIVE RECEIVING WATER(S) OR OUTFALLS, OR A COMBINATION THEREOF. SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE MINIMUM GUIDELINES SET FORTH IN PART IV.D.6.c.(1) OF THIS PERMIT. RECEIVING WATER(S) MUST HAVE AN UPSTREAM AND A DOWNSTREAM SAMPLE LOCATION.

34. "APPENDIX B" RATIONALE FOR OUTFALL SAMPLING POINTS:

SAMPLING REQUIREMENTS (NPDES GENERAL PERMIT NO. 100001, SEC. IV.D.6.a.(3).)

WHEN THE PERMITEE HAS DETERMINED THAT SOME OR ALL OF THE OUTFALLS WILL BE MONITORED, A RATIONALE MUST BE INCLUDED 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).

STORM WATER IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNITS (NTU) AT THE OUTFALL LOCATION(S). A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES (BMPs) HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING THE VALUE THAT WAS SELECTED FROM "APPENDIX B" IN THE NPDES GENERAL PERMIT NO. 100001.

THE SELECTED NTU VALUE OF 75 IS BASED UPON THE CONSTRUCTION SITE ACREAGE OF 4.82 ACRES FOR THE PROJECT SITE, THE SURFACE WATER DRAINAGE AREA APPROXIMATELY 0.20 SQUARE MILES.

35. SAMPLING LOCATIONS, PERENNIAL STREAMS, INTERMITTENT STREAMS, AND OTHER BODIES OF WATER INTO WHICH STORM WATER IS DISCHARGED CAN BE FOUND ON SHEET C-022.

36. FOR PHASED EROSION AND SEDIMENTATION CONTROL PLANS (I.E. INITIAL PHASE, INTERMEDIATE PHASE, AND FINAL PHASE) SHOWING THE LOCATION OF BEST MANAGEMENT PRACTICES (BMPs) THAT ARE CONSISTENT WITH AND NO LESS STRINGENT THAN THE MANUAL FOR EROSION AND SEDIMENTATION CONTROL IN GEORGIA, CURRENT EDITION, USING UNIFORM CODING SYMBOLS FROM THE MANUAL, CHAPTER 6, WITH LEGEND, REFER TO SHEET(S) C-023, C-024, C-025, & C-026-C-028.

DESCRIPTION OF THE APPROPRIATE CONTROLS AND MEASURES THAT WILL BE IMPLEMENTED AT THE CONSTRUCTION SITE FOR EACH PHASE OF EROSION AND SEDIMENT CONTROL:

INITIAL PHASE
INSTALLATION OF PERIMETER CONTROL BMPs (SILT FENCE (SD1-NS) AT THE LIMITS OF DISTURBANCE); CONSTRUCTION EXITS (CO) TO PREVENT THE TRACKING OR FLOW OF MUD ONTO ADJACENT ROADS AND DRIVES; CHECK DAM HAY BALE (Cd-Hb) TO REDUCE VELOCITY; EXCAVATED SEDIMENT TRAP (Sd2-E) TO PREVENT SEDIMENT FROM ENTERING A STORM DRAINAGE SYSTEM; DUST CONTROL ON DISTURBED AREAS (DU); DISTURBED AREA STABILIZATION WITH MULCHING ONLY (DS1).

INTERMEDIATE PHASE
MAINTAIN PERIMETER CONTROL BMPs (SILT FENCE (SD1-NS) AT THE LIMITS OF DISTURBANCE); CONSTRUCTION EXITS (CO) TO PREVENT THE TRACKING OR FLOW OF MUD ONTO ADJACENT ROADS AND DRIVES; CHECK DAM HAY BALE (Cd-Hb) TO REDUCE VELOCITY; EXCAVATED SEDIMENT TRAP (Sd2-E) TO PREVENT SEDIMENT FROM ENTERING A STORM DRAINAGE SYSTEM; DUST CONTROL ON DISTURBED AREAS (DU); DISTURBED AREA STABILIZATION WITH MULCHING ONLY (DS1).

FINAL
REMOVAL OF ALL BMP DEVICES ONCE THE SITE IS FULLY STABILIZED.

36.1. GENERAL IMPLEMENTATION:

1.2. ALL DISTURBED AREAS SHALL HAVE EROSION CONTROL PROVIDED IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, CURRENT EDITION.

1.3. ALL EROSION CONTROL MEASURES SHALL COMPLY WITH THE STATE OF GEORGIA SOIL AND WATER CONSERVATION COMMISSION MANUAL FOR EROSION AND SEDIMENT CONTROL IN THE STATE OF GEORGIA, CURRENT EDITION.

1.4. FULL COORDINATION SHALL BE MAINTAINED BETWEEN THE CONTRACTOR, DESIGN PROFESSIONAL, AND THE REGULATORY INSPECTOR REGARDING PROJECT SEQUENCE.

1.5. THE NOTATION AS SHOWN ON THE EROSION CONTROL PLAN SHEET(S) AND ON THE EROSION CONTROL DETAIL SHEET FOR THE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES, REFERS TO THE GEORGIA UNIFORM CODING SYSTEM AS DETAILED IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, CURRENT EDITION.

1.6. GENERAL STATEMENT OF DESIGNED EROSION CONTROL SYSTEM:

(a). NO SURFACE WATER FLOWS FROM DISTURBED AREA TO BE ALLOWED INTO THE STORM SEWER SYSTEM WITHOUT FIRST BEING FILTERED BY AN EFFECTIVE SEDIMENT ENTRAPMENT DEVICE.
(b). SEDIMENT ENTRAPMENT DEVICES ARE TO BE MAINTAINED AT ALL POINTS WHERE SURFACE FLOWS FROM DISTURBED AREAS CAN LEAVE THE SITE. FLOWS ARE TO BE DIRECTED TO ENTRAPMENT DEVICES THROUGHOUT CONSTRUCTION ACTIVITIES.

1.7. EROSION CONTROL MEASURES ARE TO BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES ON-SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED. EROSION CONTROL MEASURES SHALL BE INSPECTED AT THE END OF EACH WORKING DAY AND AFTER EACH STORM EVENT TO ENSURE THAT ALL MEASURES ARE FUNCTIONING PROPERLY. ANY REPAIRS SHALL BE MADE BY THE CONTRACTOR.

1.8. IN ADDITION TO THE NOTE ABOVE, EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AT LEAST WEEKLY, AFTER EACH RAIN EVENT, AND REPAIRED AS NECESSARY THESE INSPECTIONS SHALL BE DOCUMENTED WITH COPIES SENT TO THE OWNER.

1.9. EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY LAND DISTURBANCE ON SITE. SILT BARRIER TO BE PLACED AS SHOWN AND/OR AS DIRECTED BY THE PROJECT ENGINEER AND/OR OWNER: CLIENT.

1.10. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DETERMINED NECESSARY BY ON-SITE INSPECTION.

1.11. THE CONTRACTOR SHALL COMPLETELY REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES (I.E. SILT FENCE, SEDIMENT TRAPS, ETC.) AND TREE PROTECTION FENCING ONCE PERMANENT VEGETATION IS ESTABLISHED.

1.12. THE CONTRACTOR IS RESPONSIBLE FOR MONITORING DOWNSTREAM CONDITIONS THROUGHOUT THE CONSTRUCTION PERIOD AND FOR CLEARING ANY DEBRIS AND SEDIMENT THAT IS CAUSED BY CONSTRUCTION ACTIVITIES.

1.13. ALL DISTURBED AREAS SHALL BEST BE STABILIZED AS REQUIRED BY THESE PLANS BY THE SITEWORK CONTRACTOR AS SOON AS CONSTRUCTION PHASES PERMIT.

1.14. WHEN HAND PLANTING, MULCH (HAY OR STRAW) SHOULD BE UNIFORMLY SPREAD OVER SEEDING AREA WITHIN 24-HOURS OF SEEDING.

1.15. DURING UNSUITABLE GROWING SEASONS, MULCH WILL BE USED AS A TEMPORARY COVER (Ds1). ON SLOPES 4:1 OR STEEPER, MULCH

36. A DESCRIPTION OF APPROPRIATE EROSION CONTROL MEASURES TO BE IMPLEMENTED (CONTINUED):

- INITIAL PHASE:**
- ALL STAGING AREAS, MATERIAL STORAGE AREAS, CONCRETE WASH-OUT AREAS, SHALL BE LOCATED AT SETBACK DISTANCES FROM DESIGNATED TREE PROTECTION AREAS AND/OR STREAM BUFFERS AS REQUIRED BY LOCAL AND STATE REGULATIONS.
 - A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES. POST ON DAY ONE.
 - PRIOR TO COMMENCING LAND DISTURBING ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DELINEATED 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.
 - PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION EXIT (C₀) SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE OR ONTO ANY PUBLIC ROADWAY AS SHOWN ON THE PLANS.
 - IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE/EXITS, ALL PERIMETER EROSION CONTROL AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE INITIAL PHASE OF THE EROSION CONTROL PLAN.
 - SILT FENCE OR APPROVED EQUAL SHALL BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA OR AS SHOWN ON THE PLAN. SILT SHOULD BE REMOVED WHEN ACCUMULATION REACHES HALF THE HEIGHT OF THE BARRIER. THE PERIMETER SILT FENCE SHOULD BE INSPECTED DAILY FOR ANY FAILURES. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.
 - INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL EXISTING STORM STRUCTURES AS SHOWN ON THE PLAN.
 - TREE PROTECTION FENCING AND STREAM BUFFER LIMITS SHOULD BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBING ACTIVITY AND MAINTAINED UNTIL FINAL LANDSCAPE IS INSTALLED. THE TREE PROTECTION FENCING SHOULD BE INSPECTED DAILY. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.
 - AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES, THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL WITHIN 7 DAYS AFTER INSTALLATION. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION MEASURES. IF UNFORESEEN CONDITIONS EXIST IN THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE SITE INSPECTION WITH CONSULTATION WITH THE DESIGN PROFESSIONAL.
 - AFTER APPROVAL OF THE INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CLEARING AND GRUBBING ACTIVITIES. AS CLEARING PERMITS, THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT STORAGE DEVICES AS SHOWN ON THE INITIAL PHASE PLAN TO CONTROL EROSION AND STORMWATER RUNOFF.
 - INITIAL PHASE BMPs UTILIZED IN THIS PLAN(S) ARE AS FOLLOWS:
CO, CD-HB, SD1-NS, SD2-E, SD2-F, DU, DS1

- INTERMEDIATE PHASE:**
- MAINTAIN PREVIOUSLY INSTALLED BMPs.
 - SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES, AND THEREFORE LIMITED DURATIONS, BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED.
 - GROUND DISTURBANCE OCCURS. 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 FINAL 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 AND SEDIMENTATION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.
 - THE SILT FENCE SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SILT SHALL BE REMOVED WHEN ACCUMULATION REACHES HALF OF THE HEIGHT OF THE BARRIER.
 - SILT FENCE SHALL BE PLACED AT THE TOE OF ALL DIRT STOCK PILE AREAS.
 - AFTER PRELIMINARY CLEARING AND GRADING ACTIVITIES, THE CONTRACTOR SHALL CONSTRUCT ALL SEDIMENT ENTRAPMENT DEVICES AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN THE DEVICES UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT WHEN IT REACHES THE CLEAN-OUT ELEVATION SHOWN ON THE PLANS.
 - SEDIMENT AND EROSION CONTROL MEASURES MUST BE CHECKED WEEKLY AND AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF OF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
 - INTERMEDIATE PHASE BMPs UTILIZED ON THIS PLAN(S) ARE AS FOLLOWS:
DU, DS1

- FINAL PHASE:**
- THE CONTRACTOR SHALL MAINTAIN ALL SEDIMENT DEVICES AND EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF EACH DEVICE WHEN IT REACHES THE REQUIRED CLEAN-OUT ELEVATION SHOWN ON THE PLANS.
 - AFTER CURBING AND PAVEMENT HAS BEEN INSTALLED, ALL INLET SEDIMENT TRAPS ON THE EXISTING INLETS SHALL BE REMOVED AND REPLACED WITH CURB FILTER INLET PROTECTION.
 - FINAL STABILIZATION OF PERMANENT GRASS MUST MEET 100% COVERAGE, 70% DENSITY RULE.
 - FINAL PHASE BMPs UTILIZED ON THIS PLAN(S) ARE AS FOLLOWS:
N/A
 - GRAPHIC SCALE AND NORTH ARROW PROVIDED ON PLAN SHEETS C-023,C-024 & C-025.
 - THE CONTOUR INTERVAL ON PLAN SHEETS C-023,C-024 & C-025 IS 1'.
 - ARE ALTERNATE BMPs TO BE USED ON THIS PROJECT:NO
 - IF ALTERNATE BMPs ARE USED, THE 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 LATEST EDITION. SEE CALC SHEET N/A
 - THE 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 CAN BE FOUND ON PLAN SHEET(S) N/A.
 - THE DELINEATION OF ALL ON-SITE WETLANDS AND ALL STATE WATERS LOCATED WITHIN 200 FEET OF THE PROJECT SITE, IF APPLICABLE, CAN BE FOUND ON PLAN SHEET(S) N/A.
 - DELINEATION AND ACREAGE OF CONTRIBUTING DRAINAGE BASINS ON THE PROJECT SITE CAN BE FOUND ON THE PLAN SHEET(S) C-029,C-030.
 - HYDROLOGY STUDY AND MAPS OF DRAINAGE BASINS FOR BOTH THE PRE-DEVELOPED AND POST-DEVELOPED CONDITIONS ARE PROVIDED ON SHEET C-029 & C-030.
 - ESTIMATE OF RUNOFF COEFFICIENT OF THE SITE PRIOR TO AND AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED: PRE: 0.94 POST: 0.94
 - STORM DRAIN PIPE AND WEIR VELOCITIES WITH APPROPRIATE OUTLET PROTECTION: STORM DRAIN PIPE Q, V, L, W, D, AND SIZE PROVIDED ON SHEET N/A.
 - SOIL SERIES FOR THE PROJECT SITE AND THEIR DELINEATION IS PROVIDED ON SHEET C-022.
 - THE LIMITS OF DISTURBANCE FOR EACH PHASE OF CONSTRUCTION IS PROVIDED ON PLAN SHEETS C-023,C-024 & C-025.
 - SEE CALCULATIONS PROVIDED ON THIS SHEET FOR SEDIMENT STORAGE REQUIREMENTS.
 - THE LOCATION OF BEST MANAGEMENT PRACTICES ARE CONSISTENT WITH AND NO LESS STRINGENT THAN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. UNIFORM CODING SYMBOLS FROM THE MANUAL, CHAPTER 6, WITH LEGEND ARE PROVIDED ON SHEETS C-023,C-024,C-025.
 - DETAILED DRAWINGS FOR ALL STRUCTURAL PRACTICES ARE PROVIDED ON SHEET(S) C-026-C-028.

- 52. VEGETATIVE PRACTICES:**
- SEPTEMBER 15 - FEBRUARY 15, A MIXTURE OF UNHULLED COMMON BERMUDA 6 LBS./ACRE AND RYE GRASS SEED 28 LBS./ACRE APPLIED SIMULTANEOUSLY.
 - OCTOBER 1 - MARCH 1, UNHULLED COMMON BERMUDA 10 LBS./ACRE.
 - APRIL 1 - JUNE 1, HULLED COMMON BERMUDA 10 LBS./ACRE.
 - FERTILIZER GRADE WILL BE A COMMERCIAL 6-12-12 INCORPORATED INTO THE SOIL AT 1500 LBS./ACRE, ALSO 1500 LBS. DOLOMITIC LIME.
 - NOT LESS THAN 30 DAYS AFTER SEEDING, APPLY AMMONIUM NITRATE (NOT LESS THAN 20% NITRATE) AT A RATE EQUAL TO 60 LBS. OF AVAILABLE NITROGEN /ACRE. APPLICATION BETWEEN JUNE THRU AUGUST.
 - ALL SEEDED AREAS WILL BE MULCHED WITH STRAW OR HAY MULCH AT A RATE OF 2.5 TONS/ACRE.
 - FOR ALL DATES NOT COVERED UNDER THE GRASSING SCHEDULE THE DISTURBED SOIL SHALL BE TEMPORARILY STABILIZED USING POLYACRYLAMIDE.
 - CONTRACTOR TO ENSURE THAT EXISTING ON SITE VEGETATION OUTSIDE THE LIMITS OF CONSTRUCTION IS PRESERVED AND THAT ALL DISTURBED PORTIONS OF THE SITE ARE STABILIZED.
 - ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.

STORMWATER CALCULATIONS:

- REQUIRED SEDIMENT STORAGE :
TOTAL AREA: 7.50 AC
DISTURBED AREA : 4.82 AC
SEDIMENT STORAGE REQUIRED: 67 CY * 4.82 AC = 323 CY
SEDIMENT STORAGE PROVIDED: 365 CY
- REQUIRED SEDIMENT STORAGE = 323 CY
(67 CY/ACRE x 4.82 ACRES DISTURBED AREA)
- TOTAL REQUIRED STORAGE = 322 CY
- AVAILABLE STORAGE = 365 CY
- IS THE AVAILABLE STORAGE (365 CY) GREATER THAN STORAGE REQUIRED (323 CY)?
 YES NO

SEDIMENT STORAGE TABLE										
OUTFALL	TOTAL DRAINAGE AREA (AC)	DISTURBED AREA (AC)	REQUIRED SEDIMENT STORAGE (YD ³)	TOTAL STORAGE PROVIDED BY Sd2 (YD ³)	TOTAL STORAGE PROVIDED BY Sd2 (YD ³)	TOTAL STORAGE PROVIDED BY Cg-Hb (YD ³)	TOTAL STORAGE PROVIDED BY Cg-Hb (YD ³)	SILT FENCE LENGTH OF SILT FENCE (YD)	SILT FENCE VOLUME (YD ³)	TOTAL SEDIMENT STORAGE PROVIDED (YD ³)
A	7.5	4.82	323	100	66	127.5	450	72	365.5	

GT 1022

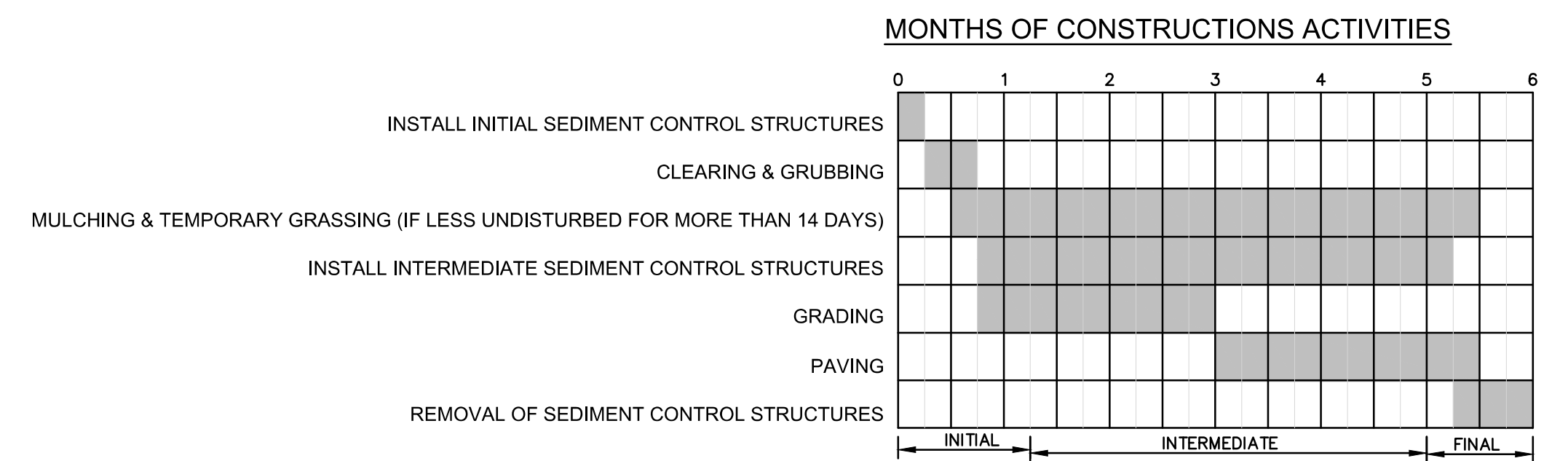
TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN

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

- Drainage area = 0.83 ac
- Required sediment storage = 67 cy/ac * drainage area
Required sediment storage = 67 cy/ac * 0.83 ac
Required sediment storage = 55.61 cy = 1582 cf
- Assume excavation depth (minimum of 1.5 ft) = 3 ft
- Assume slope of sides (shall not be steeper than 2:1) = 2:1
- Determine required surface area
SA_{req} = Required sediment storage / excavation depth
SA_{req} = 55.61 cy / 3 ft
SA_{req} = 18.54 sq ft
- Assume shape of excavation and determine dimensions.
(A rectangular shape with 2:1 length to width ratio is recommended.)
Shape = Rectangular
Dimensions: L = 30 ft, W = 30 ft, diameter (if applicable) = _____ ft
Storage Provided = 100 CY

Provide a detail showing the depth, length and width, or diameter (if applicable), and side slopes of the excavation.

APPROXIMATE START DATE: DECEMBER 1, 2021
APPROXIMATE FINISH DATE: JUNE 1, 2022



NOTES:
1. ALL DISTURBED AREAS NOT INTENDED FOR PAVING SHALL BE STABILIZED USING TEMPORARY MEASURES Ds2 AND PERMANENT MEASURES Ds3.



MONITORING PLAN & SOILS MAP
1"=300'

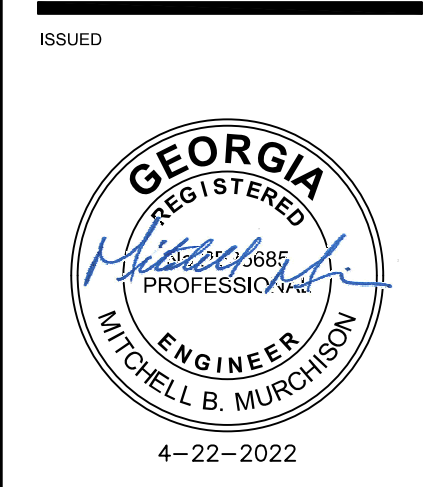
MONITORING POINTS	NTU VALUE:	SOILS
MONITORING POINT LOCATIONS ARE SHOWN ABOVE:	75 (THIS IS FOR UPSTREAM AND DOWNSTREAM MONITORING IN WARM WATER STREAMS)	DGA-DOGUE FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES
1 DOWNSTREAM 24" FES DISCHARGING INTO DITCH ALONG DOUG BARNARD PARKWAY	SITE SIZE: 4.82 ACRES	RR-ROANOKE LOAM
	DRAINAGE AREA: 0.20 SQUARE MILES	

Mead & Hunt, Inc.
878 South Lake Drive
Lexington, SC 29072
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AUGUSTA REGIONAL AIRPORT
REHABILITATION OF
STANDARD AERORAMP
 1550 HANGAR ROAD, AUGUSTA, GA 30906



ISSUED FOR BID

CARES: 3-13-0011-045-2020
M&H NO.: 0119700-202062.01
DATE: APRIL 22, 2022
DESIGNED BY: WPM
DRAWN BY: MAB
CHECKED BY: MBM
DO NOT SCALE DRAWINGS

SHEET CONTENTS
EROSION CONTROL NOTES

SHEET NO:

C-022





GENERAL NOTES:
 1. NO WETLANDS ARE LOCATED WITHIN THE PROJECT LIMITS.
 2. NO KNOWN WETLANDS ARE LOCATED WITHIN THE PROPERTY LIMITS.
 3. CONTRACTOR TO STABILIZE SITE WITH MULCH (Ds1) IF LEFT UNDISTURBED FOR MORE THAN 14 DAYS.

INITIAL PHASE LEGEND:

- Ce** CONSTRUCTION ENTRANCE
- Cw** CONCRETE WASHOUT
- Cd-Hb** STRAW BALE CHECK DAMS
- Sd1-NS** SILT FENCE (NON-SENSITIVE)
- Sd2-E** EXCAVATED INLET SEDIMENT TRAP

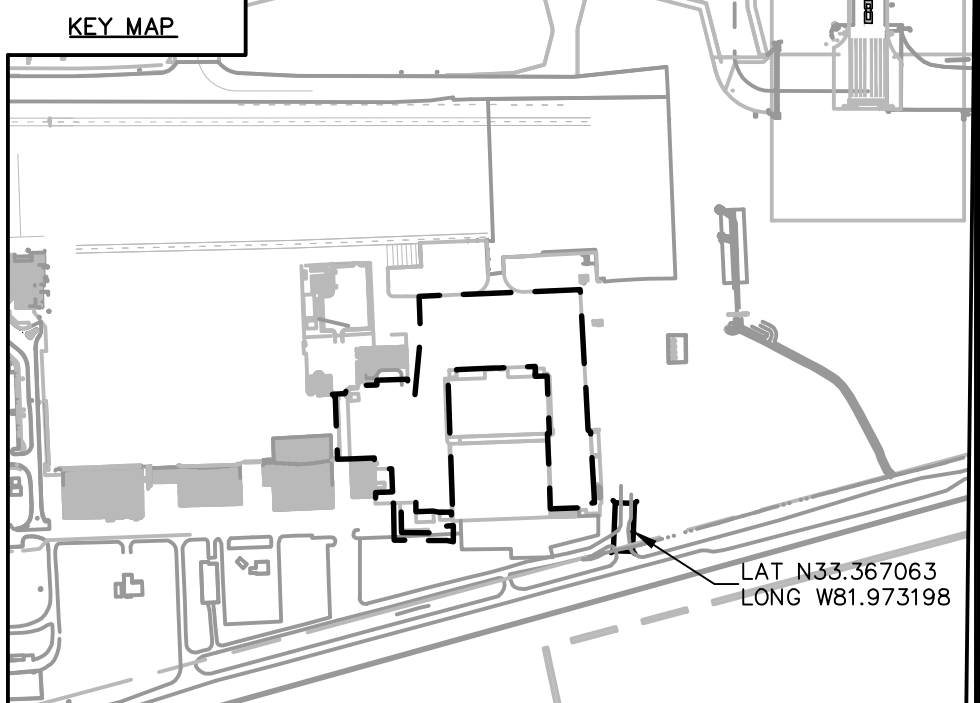
- Sd2-F** INLET SEDIMENT TRAP WITH FILTER FABRIC
- Sd2-P** CURB INLET PROTECTION
- Du** DUST CONTROL ON DISTURBED AREAS
- Ds1** DISTURBED AREA STABILIZATION (WITH MULCH)

WORK AREA PHASING LIMITS:

- WORK AREA 1A
- WORK AREA 1B
- WORK AREA 1C
- WORK AREA 2A
- WORK AREA 2B
- WORK AREA 3A
- WORK AREA 3B

CONSTRUCTION EXIT NOTE:

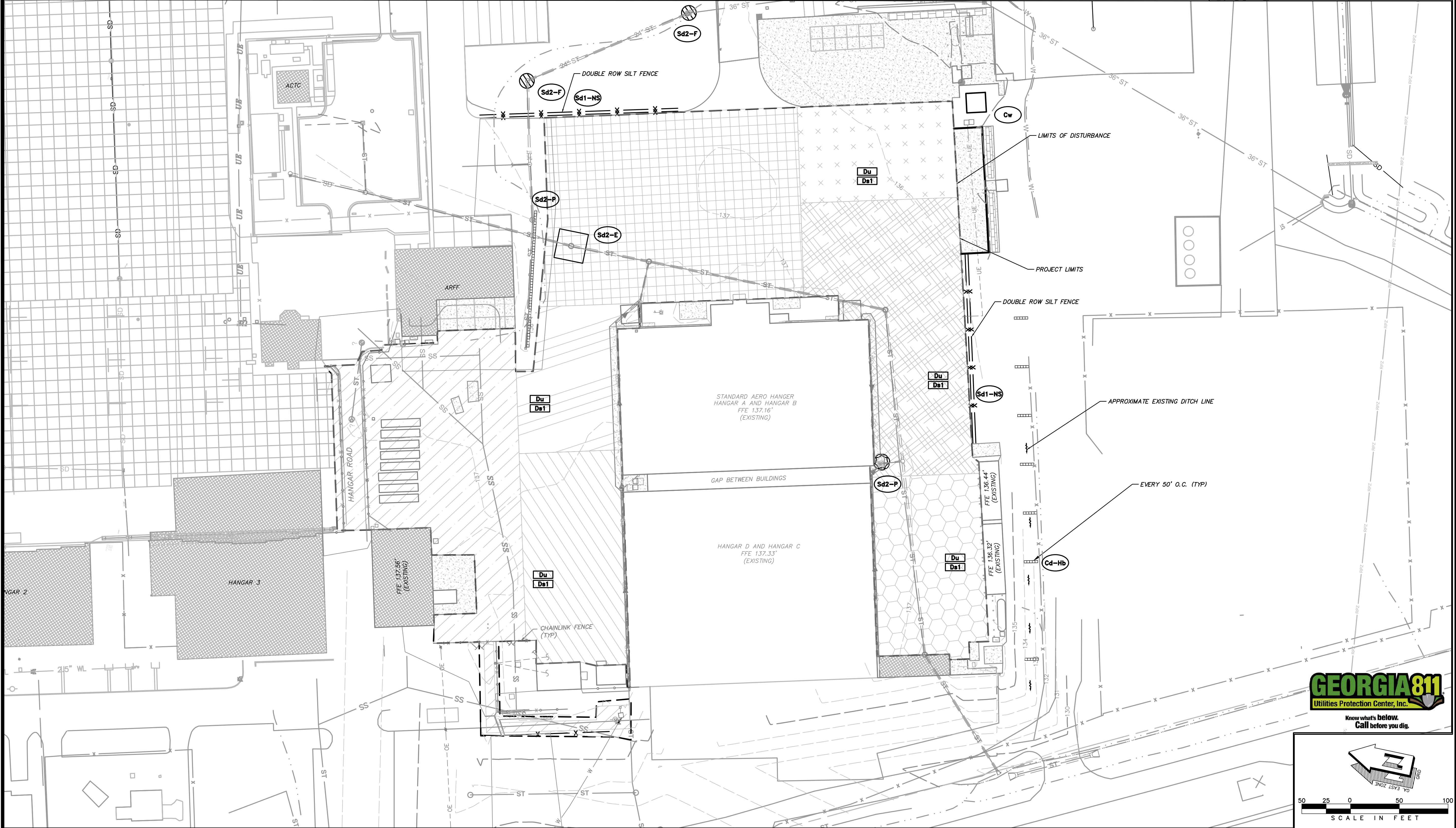
THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING EROSION CONTROL MEASURES FOR THE CONSTRUCTION EXIT. THE COST OF THESE MEASURES SHALL BE INCIDENTAL TO THE PROJECT.



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SHEET NO.:
C-023

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- GENERAL NOTES:**
1. CONTRACTOR TO SUBMIT LOCATION OF CONCRETE WASHDOWN AREA FOR APPROVAL.
 2. NO WETLANDS ARE LOCATED WITHIN THE PROJECT LIMITS.
 3. NO KNOWN WETLANDS ARE LOCATED WITHIN THE PROPERTY LIMITS.
 4. CONTRACTOR TO STABILIZE SITE WITH MULCH (Ds1) IF LEFT UNDISTURBED FOR MORE THAN 14 DAYS.

INTERMEDIATE PHASE LEGEND:

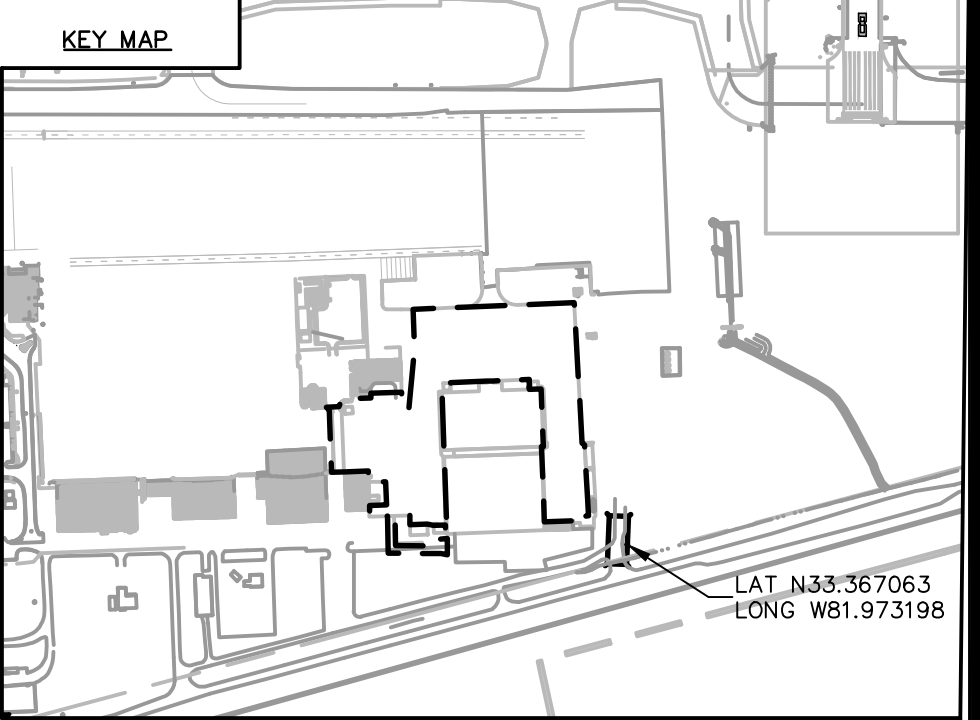
- Du** DUST CONTROL ON DISTURBED AREAS
- Ds1** DISTURBED AREA STABILIZATION (WITH MULCH)

WORK AREA PHASING LIMITS:

- WORK AREA 1A
- WORK AREA 1B
- WORK AREA 1C
- WORK AREA 2A
- WORK AREA 2B
- WORK AREA 3A
- WORK AREA 3B

CONSTRUCTION EXIT NOTE:

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING EROSION CONTROL MEASURES FOR THE CONSTRUCTION EXIT. THE COST OF THESE MEASURES SHALL BE INCIDENTAL TO THE PROJECT.



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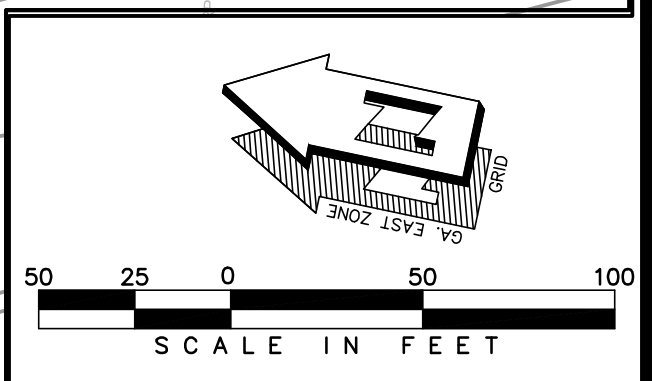
**AUGUSTA REGIONAL AIRPORT
 REHABILITATION OF
 STANDARD AERORAMP**
 1550 HANGAR ROAD, AUGUSTA, GA 30906

ISSUED

4-22-2022

ISSUED FOR BID

CARES: 3-13-0011-045-2020
 M&H NO.: 0119700-202062.01
 DATE: APRIL 22, 2022
 DESIGNED BY: WPM
 DRAWN BY: MAB
 CHECKED BY: MBM
 DO NOT SCALE DRAWINGS



SHEET CONTENTS
 INTERMEDIATE
 EROSION CONTROL
 PLAN

SHEET NO.: **C-024**

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STORM WATER QUALITY TABLE

ID #	STRUCTURE #/LOCATION	SHEET #
1	FLEX STORM INLET FILTER	C-025
2	EXISTING GRASS FILTER STRIP	C-025
3	EXISTING GRASS CHANNEL	C-025
4	EXISTING DETENTION POND	C-025
5	EXISTING DETENTION POND	C-025
6	EXISTING DETENTION POND	C-025
7	FLEX STORM INLET FILTER	C-025

GSWCC Georgia Storm and Water Conservation Commission

Mitchell B Murchison
Level II Certified Design Professional

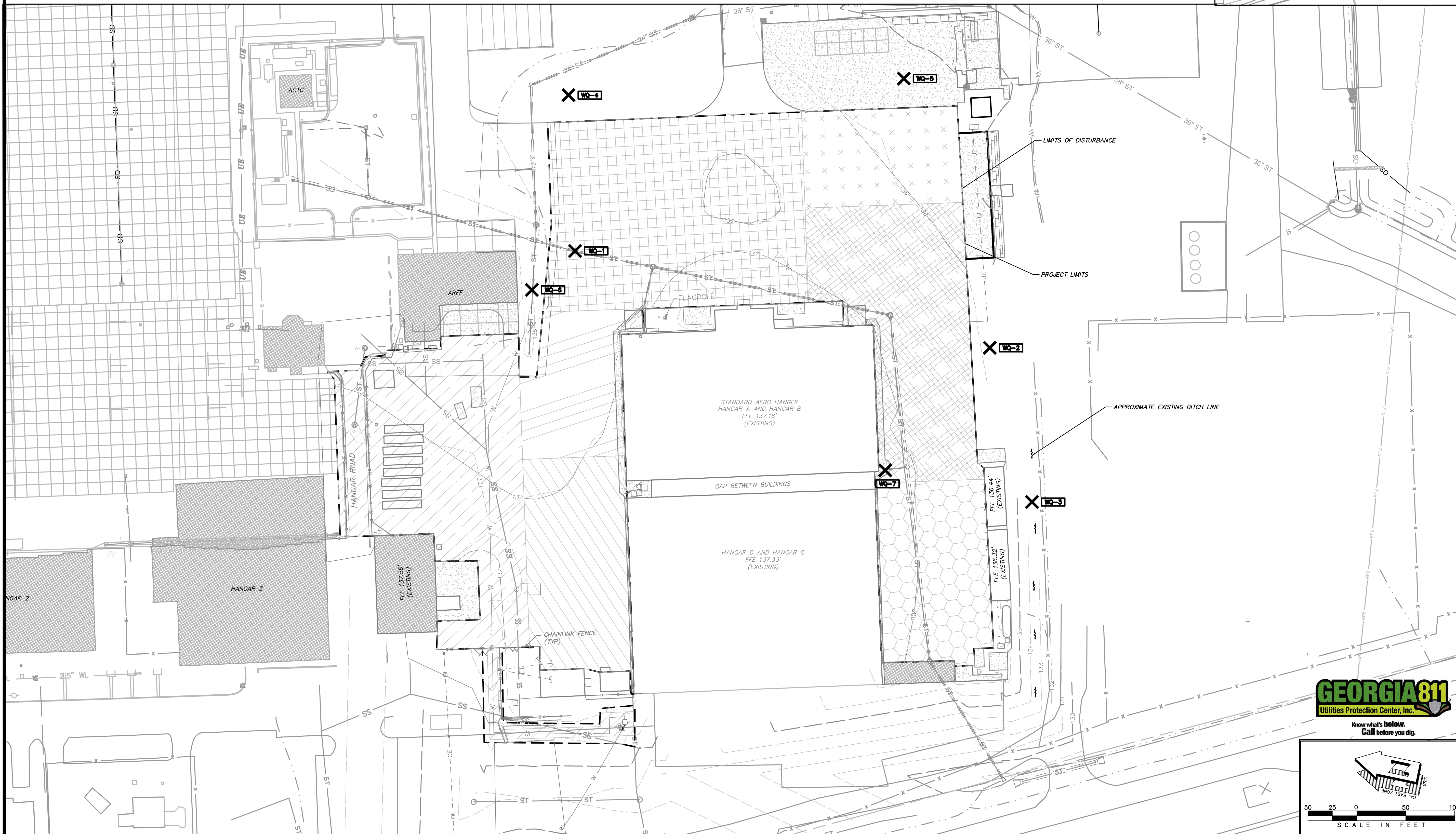
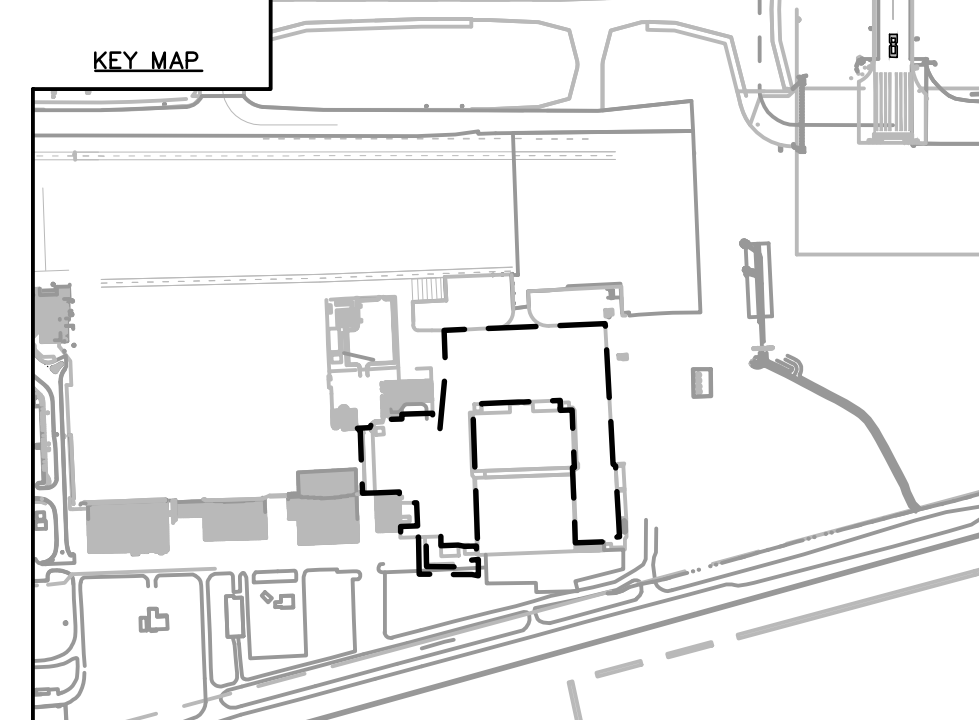
CERTIFICATION NUMBER: 000046296
ISSUED: 11/01/2019 EXPIRES: 11/01/2022

GENERAL NOTES:

1. CONTRACTOR TO SUBMIT LOCATION OF CONCRETE WASHDOWN AREA FOR APPROVAL.
2. NO WETLANDS ARE LOCATED WITHIN THE PROJECT LIMITS.
3. NO KNOWN WETLANDS ARE LOCATED WITHIN THE PROPERTY LIMITS.
4. CONTRACTOR TO STABILIZE SITE WITH MULCH (Dst) IF LEFT UNDISTURBED FOR MORE THAN 14 DAYS.

WORK AREA PHASING LIMITS:

	WORK AREA 1A		WORK AREA 3B
	WORK AREA 1B		
	WORK AREA 1C		
	WORK AREA 2A		
	WORK AREA 2B		
	WORK AREA 3A		



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**AUGUSTA REGIONAL AIRPORT
REHABILITATION OF
STANDARD AERORAMP**
1550 HANGAR ROAD, AUGUSTA, GA 30906

ISSUED

GEORGIA REGISTERED PROFESSIONAL ENGINEER
MITCHELL B. MURCHISON
4-22-2022

ISSUED FOR BID

CARES: 3-13-0011-045-2020
M&H NO.: 0119700-202062.01
DATE: APRIL 22, 2022
DESIGNED BY: WPM
DRAWN BY: MAB
CHECKED BY: MBM
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GEORGIA811
Utilities Protection Center, Inc.
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SCALE IN FEET

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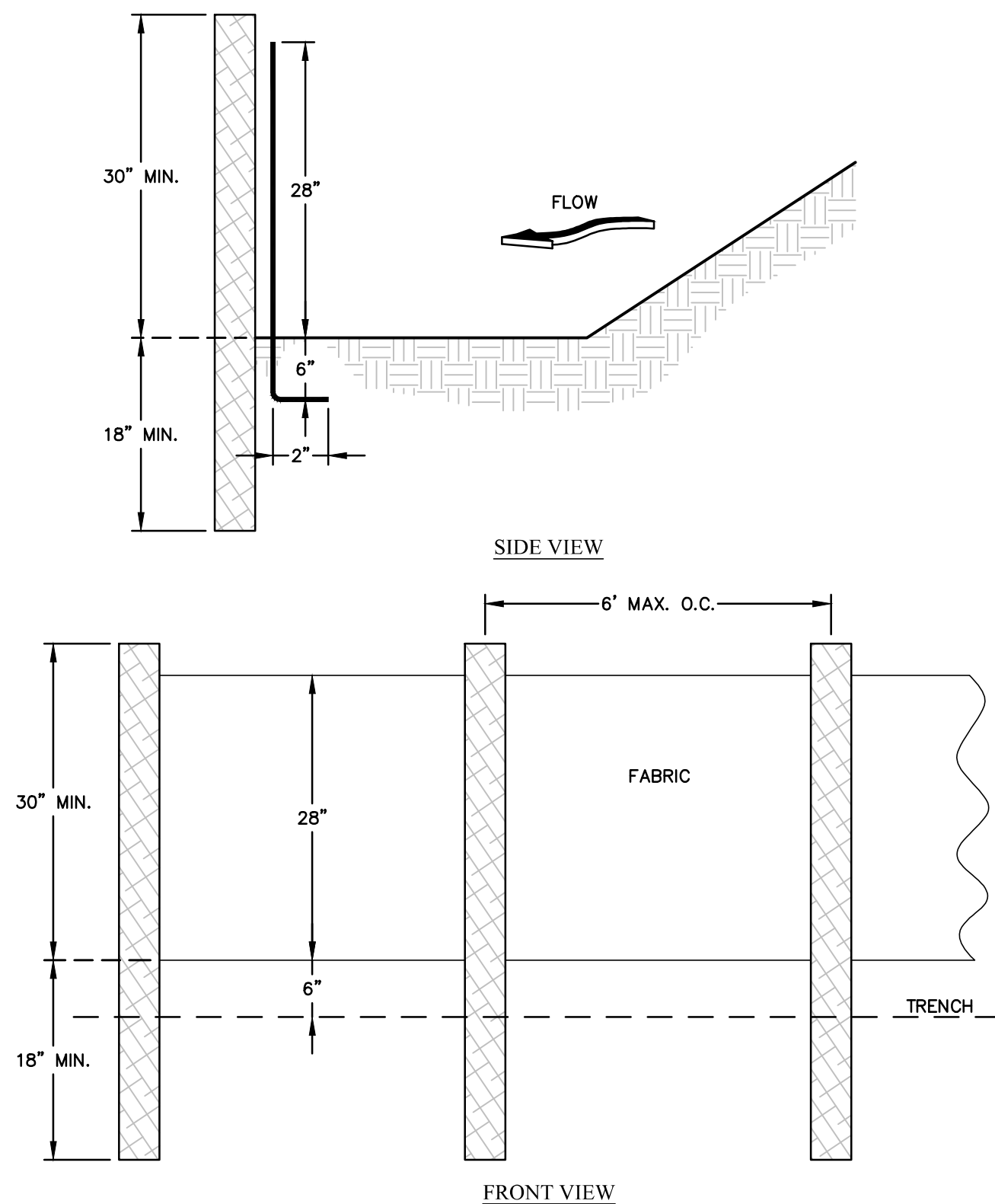
PA EAST ZONE

SHEET CONTENTS
FINAL EROSION CONTROL PLAN

SHEET NO.: **C-025**

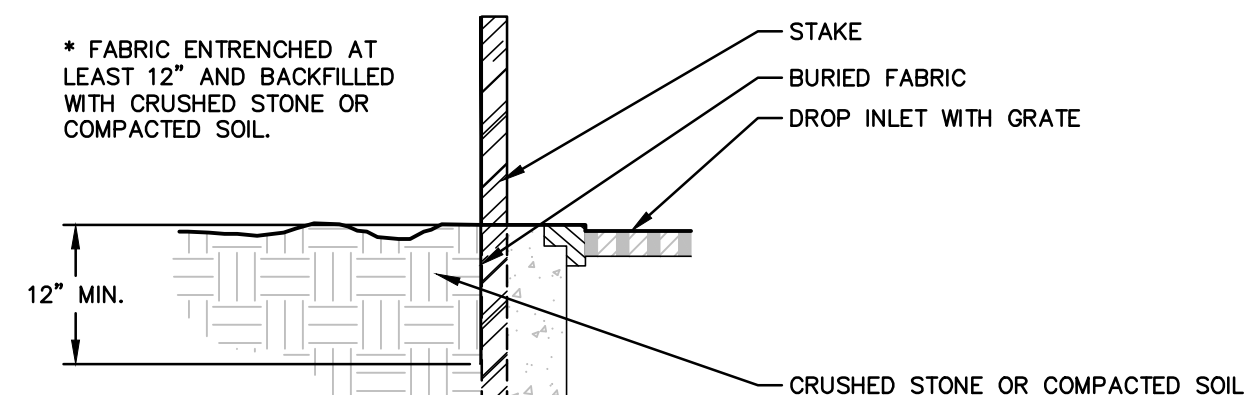
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STEEL FRAME AND SILT FENCE INSTALLATION



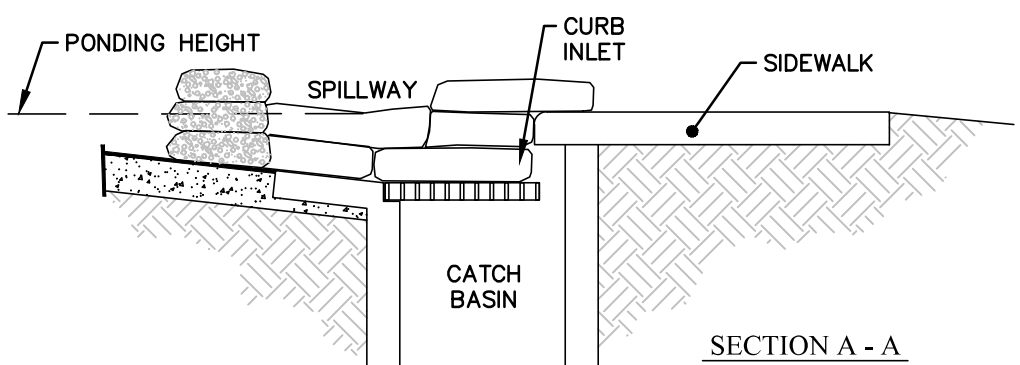
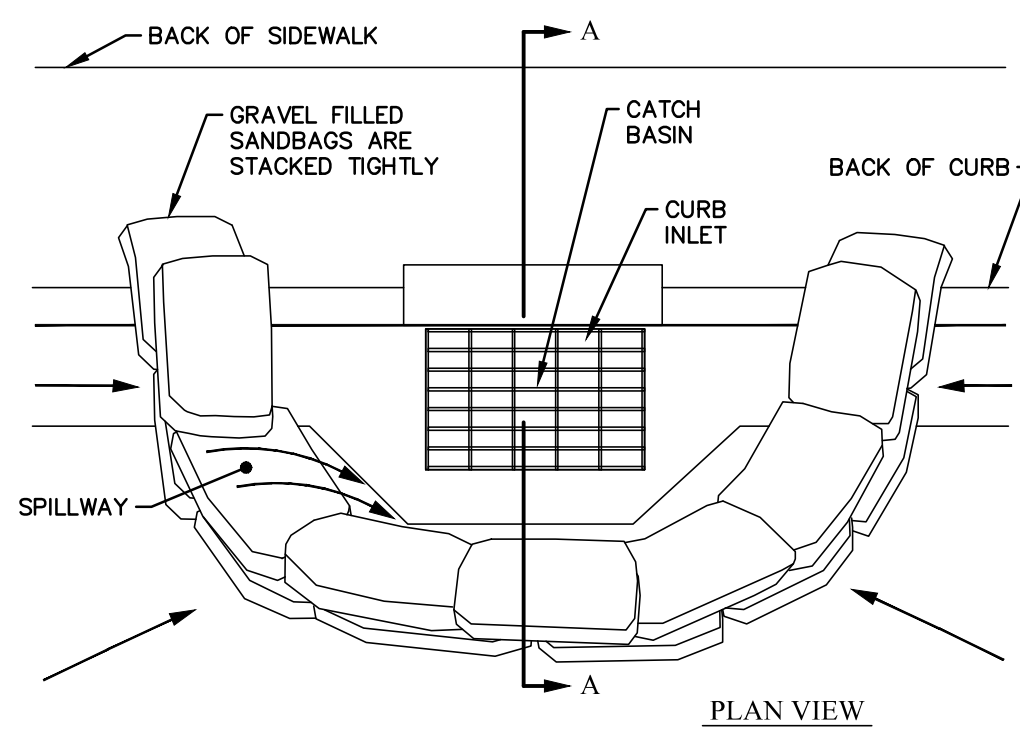
NOTES:
1. STEEL OR DOT APPROVED WOOD POSTS.

- NOTES:
1. DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS).
2. THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAXIMUM OF 3' APART).
3. THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18\"/>



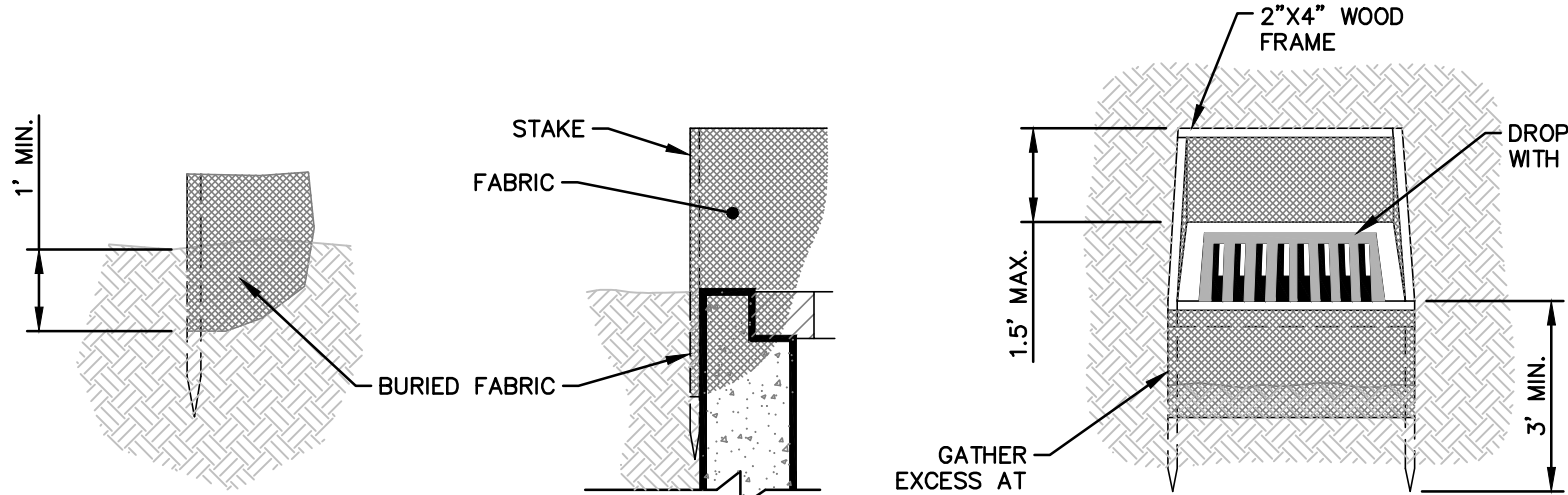
FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION Sd2-F
N.T.S.

SILT FENCE - TYPE A Sd1-NS
N.T.S.



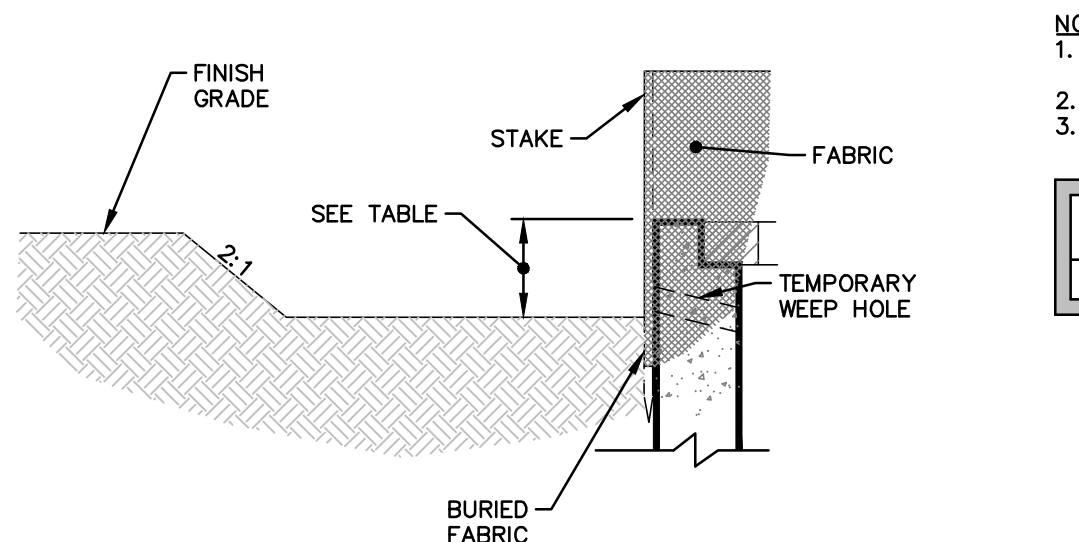
- NOTES:
1. PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREET SEGMENTS WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
2. GRAVEL BAGS, OF EITHER BURLAP OR WOVEN GEOTEXTILE FABRIC, ARE FILLED WITH #57 STONE, LAYERED AND PACKED TIGHTLY.
3. LEAVE ONE SANDBAG GAP IN THE TOP ROW TO PROVIDE A SPILLWAY FOR OVERFLOW.
4. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

CURB INLET SEDIMENT BARRIER (GRAVEL BAGS) Sd2-P
N.T.S.



FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION Sd2-F
N.T.S.

1. FOR STAKES USE 2\"/>



FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION Sd2-E
N.T.S.

- NOTES:
1. OTHER AREAS ULTIMATELY DRAIN TO THE SILT FENCE AND CHECK DAMS WHICH PROVIDES 230 CY OF ADDITIONAL SEDIMENT STORAGE.
2. ALL DESIGN PARAMETERS ARE CONSIDERED MINIMUMS.
3. TOTAL STORAGE REQUIRED = 359 CY TOTAL STORAGE PROVIDED = 365 CY

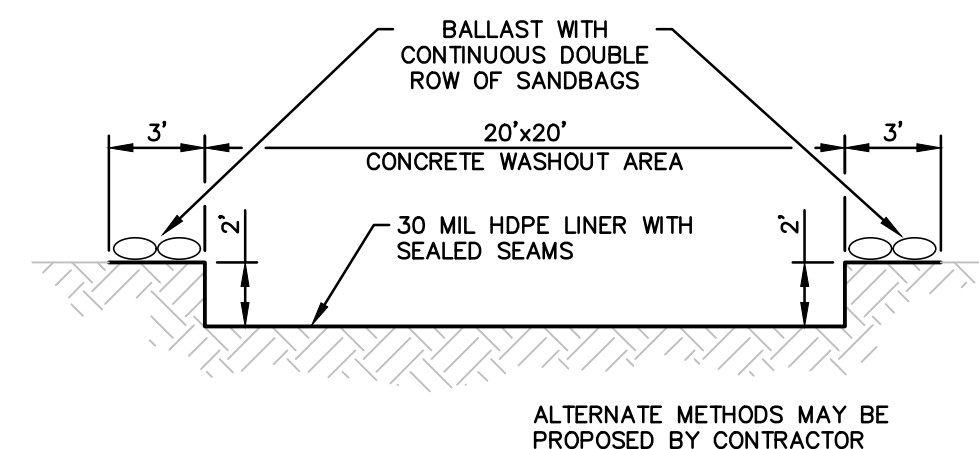
INLET STRUCTURE	STORAGE PROVIDED	EXCAVATION PARAMETERS
GT 1022	100 C.Y.	RECTANGULAR, 30'X30'X3'

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A SMALL TEMPORARY BARRIER OR DAM CONSTRUCTED ACROSS A SWALE, DRAINAGE DITCH OR AREA OF CONCENTRATED FLOW.
Co	CONSTRUCTION EXIT			A CRUSHED STONE PAD LOCATED AT THE CONSTRUCTION SITE EXIT TO PROVIDE A PLACE FOR REMOVING MUD FROM TIRES THEREBY PROTECTING PUBLIC STREETS.
Cw	CONCRETE WASHDOWN			EXCAVATED AREA MARKED WITH ORANGE FENCING USED FOR CONCRETE WASHDOWN OF TOOLS & CHUTES.
Sd1	SEDIMENT BARRIER			A BARRIER TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. IT MAY BE SANDBAGS, BALES OF STRAW OR HAY, BRUSH, LOGS AND POLES, GRAVEL OR A SILT FENCE.
Sd2	INLET SEDIMENT TRAP			A TEMPORARY PROTECTIVE DEVICE FORMED AT OR AROUND AN INLET TO A STORM DRAIN TO TRAP SEDIMENT

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)			ESTABLISHING TEMPORARY PROTECTION FOR DISTURBED AREAS WHERE SEEDLINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE EROSION RETARDING COVER.
Du	DUST CONTROL ON DISTURBED AREAS			CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITE, ROADWAYS AND SIMILAR SITES.



- NOTES:
1. CONTRACTOR TO MAINTAIN DURING CONSTRUCTION AND REMOVE AT THE END OF THE PROJECT.
2. HAUL WASTE MATERIAL TO AN APPROVED DISPOSAL SITE.

CONCRETE WASHOUT AREA DETAIL Cw
N.T.S.

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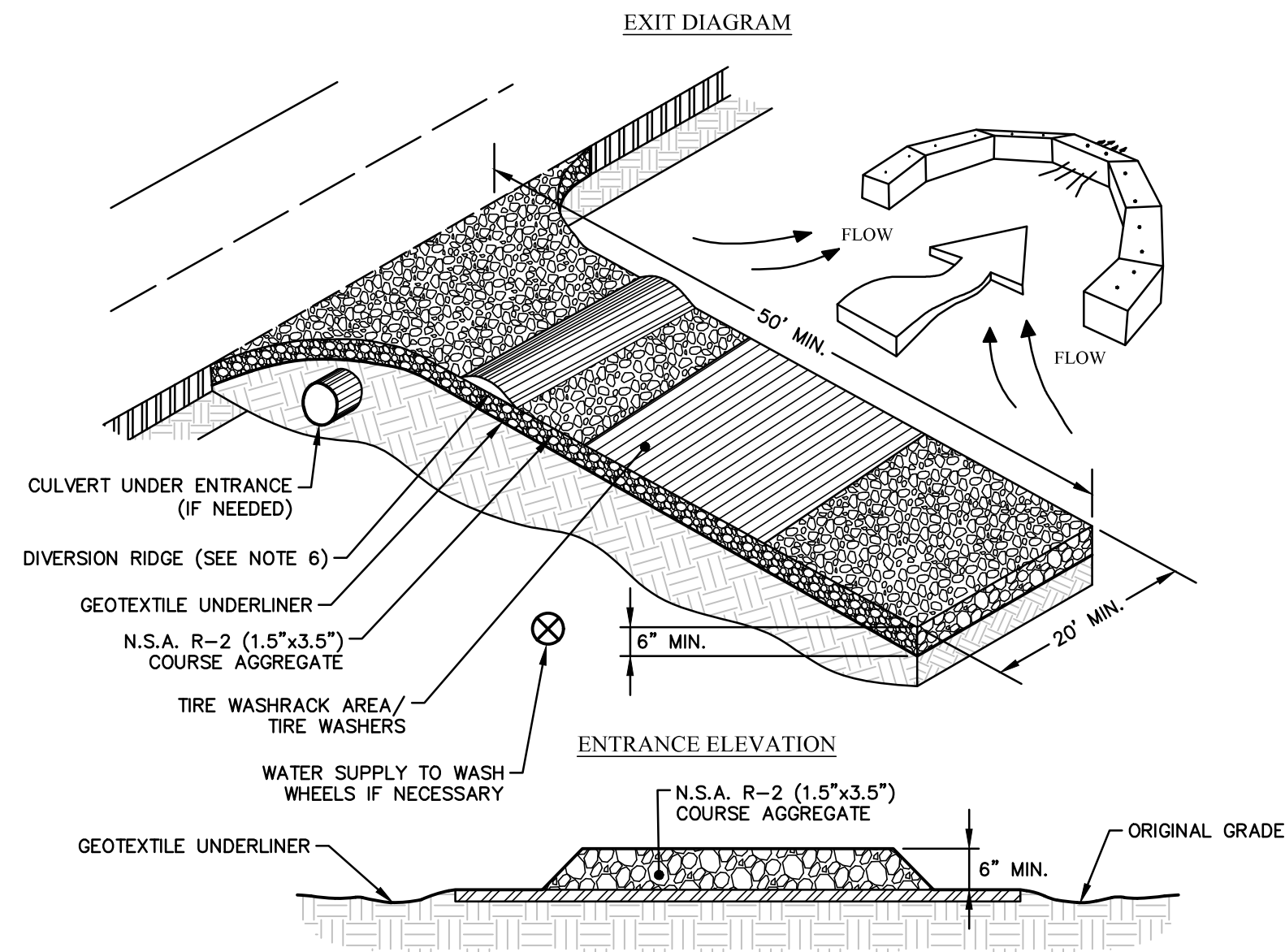
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MITCHELL B. MURCHISON
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SHEET NO.:
C-026

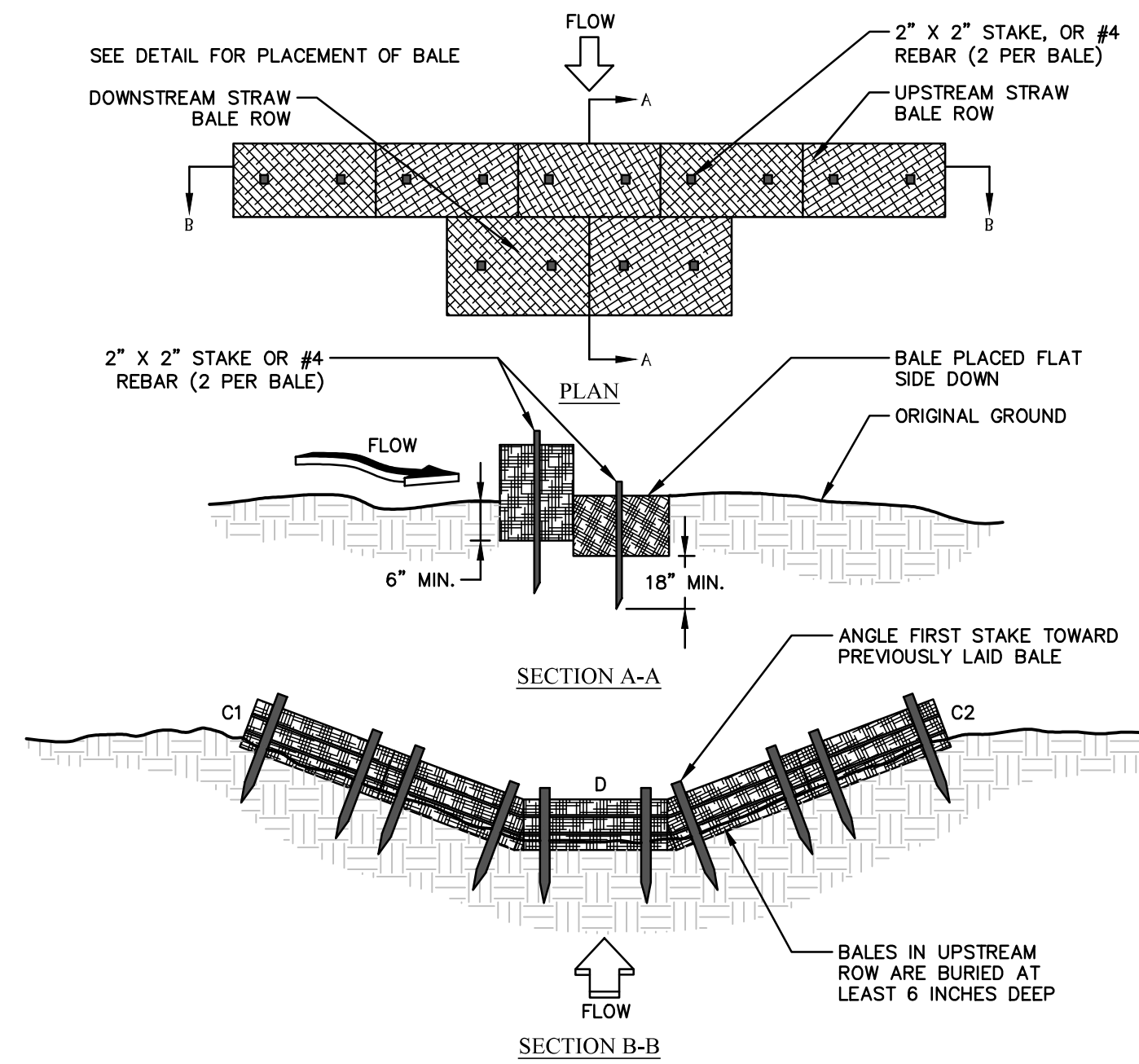
GSWCC
Mitchell B Murchison
Level II Certified Design Professional
CERTIFICATION NUMBER: 000046296
ISSUED: 11/01/2019 Expires: 11/01/2022

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- 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.

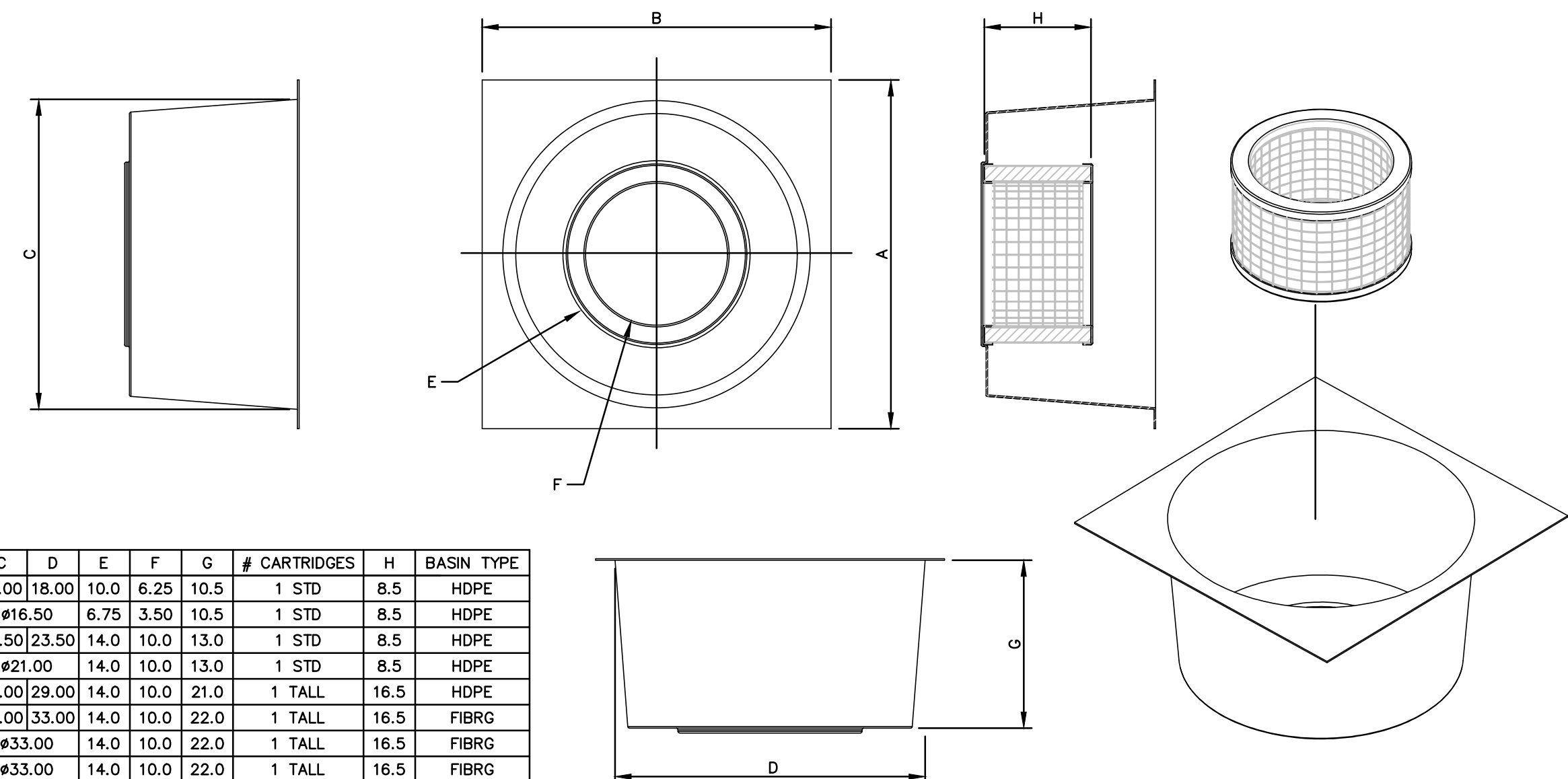
CRUSHED STONE
CONSTRUCTION OUTLET
N.T.S. Co



- NOTES:
1. BALES SHOULD BE BOUND WITH WIRE OR NYLON STRING AND SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
 2. REMOVE #4 REBAR AFTER STRAW BALES ARE NO LONGER IN PLACE.
 3. POINTS C1 & C2 OF SECTION B-B SHOULD ALWAYS BE HIGHER THAN POINT D.
 4. STRAW-BALE CHECK DAMS SHALL NOT BE USED WHERE THE DRAINAGE AREA EXCEEDS ONE ACRE.

TYPICAL STRAW BALE CHECK DAM
N.T.S. Cd-Hb

- NOTES:
1. ALL DIMENSION ARE IN INCHES UNLESS OTHERWISE NOTED
 2. UNITS ARE CONSTRUCTED FROM HIGH DENSITY POLYETHYLENE PLASTIC WITH UV INHIBITORS OR FIBERGLASS HAVING ISOPHTHALIC POLYESTER RESINS THAT ARE GEL COATED WITH ISO7NPG
 3. MEDIA CARTRIDGES CAN BE INTERCHANGED WITH GEOTRAP SERIES AS SITE CONDITIONS CHANGE.
 4. LOW PROFILE FILTER ARE ALSO AVAILABLE FOR SHALLOW CATCH BASINS.
 5. CUSTOM SIZES ARE AVAILABLE TO FIT MOST APPLICATIONS. PLEASE CALL A LOCAL CONTECH OFFICE NEAR YOU FOR DETAILS.
 6. OPTIONAL TRASH GUARD AVAILABLE.
 7. DUAL STAGE AND DUAL CAPACITY FILTERS ALSO AVAILABLE FOR LARGER DEBRIS CAPACITIES
 8. * DIMENSIONS "A" AND "B" SUPPORT FLANGES CAN BE ADJUSTED TO SUITE VARYING SIZES OF CATCH BASINS
 9. CUSTOM INSTALL BRACKETS ARE AVAILABLE AS NEEDED.



MODEL #	A*	B*	C	D	E	F	G	# CARTRIDGES	H	BASIN TYPE
TR1818	24.00	24.00	18.00	18.00	10.0	6.25	10.5	1 STD	8.5	HDPE
TR18RD	24.00		16.50	6.75	3.50	10.5	1 STD	8.5	HDPE	
TR24SR	27.00	27.00	23.50	23.50	14.0	10.0	13.0	1 STD	8.5	HDPE
TR24RD	28.00		21.00	14.0	10.0	13.0	1 STD	8.5	HDPE	
TR3030	34.00	34.00	22.00	29.00	14.0	10.0	21.0	1 TALL	16.5	HDPE
TR36SR	36.00	36.00	33.00	33.00	14.0	10.0	22.0	1 TALL	16.5	FIBRG
TR36RD	36.00		33.00	14.0	10.0	22.0	1 TALL	16.5	FIBRG	
TR42RD	42.00		33.00	14.0	10.0	22.0	1 TALL	16.5	FIBRG	
TR4848	48.00	48.00	42.00	42.00	24.0	19.75	22.0	1 TALL	16.5	FIBRG
TR48RD	48.00		33.00	14.0	10.0	22.0	1 TALL	16.5	FIBRG	

DETAIL BASED ON DROP INLET STYLE
TRITON CATCHBASIN INSERTS BY CONTECH
TYPICAL WATER QUALITY INSERT
DETAIL
N.T.S. WQ

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SHEET CONTENTS
EROSION CONTROL
DETAILS

SHEET NO.:

C-027

GSWCC Georgia Solid Waste
Construction Consortium
Mitchell B Murchison
Level II Certified Design Professional
CERTIFICATION NUMBER: 000046296
ISSUED: 11/01/2019 Expires: 11/01/2022

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INSTALLATION:

- APPLY MULCH OR TEMPORARY GRASSING TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE.
- APPLICABLE TO ROUGH GRADED THAT WILL BE EXPOSED FOR LESS THAN 6 MONTHS.
- COORDINATE WITH PERMANENT MEASURES TO ENSURE ECONOMICAL AND EFFECTIVE STABILIZATION.
- TAKE NOTE OF WHICH SPECIES ARE NOT APPROPRIATE FOR COMPANION CROP PLANTINGS.
- WHEN THE SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH CUT SLOPES, SCARIFY THE SOIL IN ORDER PROVIDE A PLACE FOR THE SEED TO LODGE AND GERMINATE.
- APPLY AGRICULTURAL LIME AT THE RATE DETERMINED BY THE SOIL PH TEST.
- APPLY LIME BEFORE LAND PREPARATION AND INCORPORATE WITH A DISK, RIPPER, OR CHISEL.
- ON STEEP SLOPES, APPLY FERTILIZER HYDRAULICALLY.
- SELECT GRASS, OR GRASS-LEGUME MIXTURES BASED ON THE AREA AND SEASON OF THE YEAR.
- APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER DRILL, CULTI-PACKER-SEEDER, OR HYDRAULIC SEEDER.
- THE APPROPRIATE DEPTH OF PLANTING IS 1X THE SEED PLANTER
- APPLY IRRIGATION AT A RATE THAT WILL NOT CAUSE RUNOFF AND EROSION. THOROUGHLY WET THE SOIL TO INSURE GERMINATION OF THE SEED.

TEMPORARY PLANT SPECIES, SEEDING RATES & PLANTING DATES

SPECIES	RATES PER 1000 SQ. FT.	RATES PER ACRE	PLANTING DATES BY REGION		
			M-L	P	C
BARLEY, ALONE	3.30 LBS	0 BU			
BARLEY, IN MIXTURES	0.60 LBS	0.5 BU	9/1-10/31	9/15-11/15	10/1-12/31
LESPEDeza, ANNUAL	0.90 LBS	40 LBS			
LESPEDeza, IN MIXTURES	0.20 LBS	10 LBS	3/1-3/31	3/1-3/31	2/1-2/28
LOVEGRASS, ALONE	0.10 LBS	4 LBS			
LOVEGRASS, IN MIXTURES	0.05 LBS	2 LBS	4/1-5/31	4/1-5/31	3/1-5/31
SUDANGRASS	1.40 LBS	60 LBS			
TRITICALE, ALONE	3.30 LBS	3 BU			
TRITICALE, IN MIXTURES	0.60 LBS	0.5 BU	N/A	N/A	10/15-11/30

1. UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVIER SEEDING RATES.
2. SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND LOCAL CONDITIONS.
3. SEEDING RATES ARE BASED ON PURE LIVE SEED (PLS).

FERTILIZER REQUIREMENTS FOR TEMPORARY VEGETATION

TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (N-P-K)	RATE (LBS/ACRE)	N TOP DRESSING RATES (LBS/ACRE)
COOL SEASON GRASSES	FIRST	6-12-12	1500	50-100
	SECOND	6-12-12	1000	---
	MAINTENANCE	10-10-10	400	30
COOL SEASON GRASSES & LEGUMES	FIRST	6-12-12	1500	50-100
	SECOND	10-10-10	1000	---
	MAINTENANCE	10-10-10	400	---
TEMPORARY COVER CROPS SEDED ALONE	FIRST	10-10-10	500	30
WARM SEASON GRASSES	FIRST	6-12-12	1500	50-100
	SECOND	6-12-12	800	50-100
	MAINTENANCE	10-10-10	400	30

MAINTENANCE:

- RESEED AREAS WHERE AN ADEQUATE STAND OF TEMPORARY VEGETATION FAILS TO EMERGE.
- IF OPTIMUM CONDITIONS FOR TEMPORARY VEGETATION IS LACKING, MULCH CAN BE USED AS A SINGULAR EROSION CONTROL DEVICE.

DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

Ds2

TEMPORARY METHODS:

- MULCHES (SEE Ds1)**
SEE Ds1 - DISTURBED AREA STABILIZATION (MULCHING ONLY). REFER TO SPECIFICATION Tcc - TACKIFIERS FOR THE USE OF SYNTHETIC RESIN TO BIND MULCH MATERIAL.
- VEGETATIVE COVER (SEE Ds2)**
SEE Ds2 - DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING).
- SPRAY-ON ADHESIVES**
FOR USE ON MINERAL SOILS NOT MUCK SOILS. REFER TO SPECIFICATION Tcc - TACKIFIERS.
- TILLAGE**
DESIGNED TO ROUGHEN AND BRING CLODS TO THE SOIL SURFACE. BEGIN PLOWING ON WINDWARD SIDE OF SITE. USE CHISEL-TYPE PLOWS TO ACHIEVE DESIRED EFFECT. THIS IS AN EMERGENCY MEASURE TO BE USED BEFORE WIND EROSION STARTS.
- IRRIGATION**
SPRINKLE THE SITE WITH WATER UNTIL THE SURFACE IS WET. REPEAT AS NEEDED.
- BARRIERS**
USE SOLID BOARD FENCE, SNOW FENCE, BURLAP FENCE, CRATE WALLS, BALES OF HAY OR SIMILAR MATERIAL TO CONTROL AIR CURRENTS AND SOIL BLOWING. PLACE BARRIERS AT RIGHT ANGLES AT INTERVALS OF 15X THEIR HEIGHT TO CONTROL WIND EROSION.
- CALCIUM CHLORIDE**
APPLY AT A RATE TO KEEP THE SURFACE MOIST.
- PERMANENT METHODS:**
- PERMANENT VEGETATION**
SEE Ds3 - DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING). EXISTING TREES AND LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.
- STONE**
COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL. SEE SPECIFICATION Cr - CONSTRUCTION ROAD STABILIZATION.
- TOP SOILING**
SEE SPECIFICATION Tp - TOP SOILING.

MAINTENANCE

PROHIBIT TRAFFIC ON SURFACE AFTER SPRAYING. SUPPLEMENT SURFACE COVERING AS NEEDED.

DUST CONTROL ON DISTURBED AREAS

Du

INSTALLATION:

- USE CONVENTIONAL PLANTING METHODS WHERE POSSIBLE.
- FINAL STABILIZATION MEANS THAT 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION AND WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDINGLY TO THE PLAN (UNIFORMLY COVERED LANDSCAPING MATERIAL IN PLANNED LANDSCAPING AREAS), OR THE EQUIVALENT PERMANENT STABILIZATION METHODS.
- SELECT PLANTS SPECIES BASED ON SITE AND SOIL CONDITIONS, PLANNED USE, MAINTENANCE OF THE AREA, TIME OF YEAR, METHOD OF PLANTING, AND THE NEEDS OF THE LAND USER.
- APPLY AGRICULTURAL LIME AT A RATE OF 1-2 TONS/ACRE UNLESS SOIL TEST INDICATE OTHERWISE. PLEASE REFER TO PERMANENT PLANT SPECIES, SEEDING RATES & PLANTING DATES TABLE BELOW FOR INITIAL FERTILIZATION, NITROGEN, TOPDRESSING, AND MAINTENANCE FERTILIZER REQUIREMENT FOR EACH SPECIES.
- APPLY SEED HYDRAULICALLY, IF USING CONVENTIONAL METHODS, USE A CULTI-PACKER SEEDER, DRILL, ROTARY SEEDER, OR BY HAND.
- COVER THE SEED LIGHTLY WITH 1/8"-1/4" OF SOIL FOR SMALL SEED AND 1 1/2"-1" OF SOIL FOR LARGE SEED WHEN USING A CULTI-PACKER.
- CHECK SEED TAGS FOR % GERMINATION & % PURITY IN ORDER TO CALCULATE PURE LIVE SEED (PLS), WHICH IS THE PERCENTAGE OF THE SEEDS THAT ARE PURE AND WILL GERMINATE.
- MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. PLEASE REFER TO Ds1 FOR APPLICATION RATES AND ANCHORING METHODS FOR DIFFERENT MATERIALS FOR DIFFERENT MATERIALS.
- IRRIGATE WHEN THE SOIL IS DRY AND AT A RATE THAT WILL NOT CAUSE RUNOFF.

MAINTENANCE:

- RE-SEED AREAS WHERE AN ADEQUATE STAND OF VEGETATION FAILS TO EMERGE OR WHERE A POOR STAND EXISTS.
- MAINTAIN AT LEAST 6" OF TOP GROWTH UNDER ANY USE AND MANAGEMENT.
- EXCLUDE TRAFFIC UNTIL THE PLANTS ARE ESTABLISHED.
- REFER TO FERTILIZER REQUIREMENTS FOR PERMANENT VEGETATION TABLE FOR SECOND YEAR AND MAINTENANCE FERTILIZER RATES.
- APPLY ONE TON OF AGRICULTURAL LIME EVERY 4-6 YEARS AS INDICATED BY SOIL TESTS.
- MOW BERMUDA GRASS, BAHAI GRASS, AND TALL FESCUE AS DESIRED.
- MOW SERICIA LESPEDEZA ONLY AFTER FROST INSURES THAT THE SEEDS ARE MATURE.

GENERAL NOTES:

THE USDA-APHIS-WILDLIFE SERVICE STAFF SHOULD BR CONSULTED TO ENSURE SEED RECOMMENDED IS NOT A HAZARDOUS WILDLIFE ATTRACTANT. SEEDING DATES, SPECIES AND SEEDING RATES MUST BE SPECIFIED THAT ARE COMPATIBLE WITH LOCAL CLIMATE AND SOIL CONDITIONS. DUE CONSIDERATION MUST BE GIVEN TO LONGEVITY OF PLANTS, RESISTANCE TO TRAFFIC AND EROSION, AND ATTRACTION OF BIRDS OR LARGE ANIMAL. MORE THAN ONE SEEDING SEASON MAY BE SPECIFIED, IF APPROPRIATE. LOCAL OFFICES OF THE USDA NATURAL RESOURCES CONSERVATION SERVICE (NRCS) AND/OR STATE UNIVERSITY AGRICULTURAL COOPERATIVE EXTENSION OFFICE (COUNTY AGENT OR EQUIVALENT) SHOULD BE CONSULTED FOR ASSISTANCE AND RECOMMENDATION. THESE AGENCIES SHOULD ALSO BE CONSULTED FOR LIMING AND FERTILIZER RECOMMENDATIONS.

FERTILIZER REQUIREMENTS FOR TEMPORARY VEGETATION

TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (N-P-K)	RATE (LBS/ACRE)	N TOP DRESSING RATES (LBS/ACRE)
COOL SEASON GRASSES	FIRST	6-12-12	1500	50-100
	SECOND	6-12-12	1000	---
	MAINTENANCE	10-10-10	400	30
COOL SEASON GRASSES & LEGUMES	FIRST	6-12-12	1500	0-50
	SECOND	0-10-10	1000	---
	MAINTENANCE	0-10-10	400	---
WARM SEASON GRASSES	FIRST	6-12-12	1500	50-100
	SECOND	6-12-12	800	50-100
	MAINTENANCE	10-10-10	400	30
WARM SEASON GRASSES & LEGUMES	FIRST	6-12-12	1500	50
	SECOND	0-10-10	1000	---
	MAINTENANCE	0-10-10	400	---

INSTALLATION:

- APPLY MULCH OR TEMPORARY GRASSING TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE.
- APPLICABLE TO GRADED OR CLEARED AREAS WHERE SEEDINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDANT COVER.
- MULCH CAN BE USED AS A SINGULAR EROSION CONTROL DEVICE FOR UP TO 6 MONTHS. APPLY AT THE APPROPRIATE DEPTH. REFER TO TABLE 1 FOR SPECIFIC MATERIALS.

SITE PREPARATION	
	<ul style="list-style-type: none"> • GRADE TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH. • INSTALL NEEDED EROSION CONTROL MEASURES SUCH AS DIKES, BERMS, AND SEDIMENT BARRIERS. • LOOSEN COMPACTED SOIL TO A MINIMUM DEPTH OF 3".
APPLYING MULCH	<ul style="list-style-type: none"> • APPLY DRY STRAW OR HAY AND WOOD CHIPS UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT. • APPLY 20-30 LBS OF NITROGEN/ACRE IF THE AREA WILL EVENTUALLY BE COVERED WITH PERENNIAL VEGETATION. • APPLY POLYETHYLENE FILM ON EXPOSED AREAS.
ANCHORING MULCH	<ul style="list-style-type: none"> • PRESS STRAW OR HAY INTO THE SOIL WITH A DISK HARROW IMMEDIATELY AFTER APPLICATION. TACKIFIERS MAY BE USED WHEN SPREADING MULCH WITH BLOWER-TYPE EQUIPMENT. • ANCHOR WOOD WASTE USING THE APPROPRIATE SIZE NETTING. • TRENCH POLYETHYLENE AT THE TOP AS WELL AS INCREMENTALLY AS NECESSARY.

MULCHING APPLICATION REQUIREMENTS:

MATERIAL	RATE	DEPTH
STRAW OR HAY		2" TO 4"
WOOD WASTE, CHIPS, SAWDUST, BARK		2" TO 3"
POLYETHYLENE FILM	SECURE WITH SOIL ANCHORS, WEIGHTS	
WOOD WASTE, CHIPS, SAWDUST, BARK	SEE MANUFACTURER'S RECOMMENDATIONS	

MAINTENANCE

THE APPROPRIATE DEPTH AND 90% COVER SHALL BE MAINTAINED AT ALL TIMES.

DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)

Ds1

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**AUGUSTA REGIONAL AIRPORT
REHABILITATION OF
STANDARD AERORAMP**
1550 HANGAR ROAD, AUGUSTA, GA 30906

ISSUED



ISSUED FOR BID

CARES: 3-13-0011-045-2020
M&H NO.: 0119700-202062.01
DATE: APRIL 22, 2022
DESIGNED BY: WPM
DRAWN BY: MAB
CHECKED BY: MBM

DO NOT SCALE DRAWINGS
SHEET CONTENTS
EROSION CONTROL
DETAILS

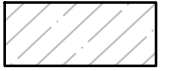
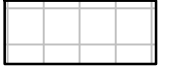




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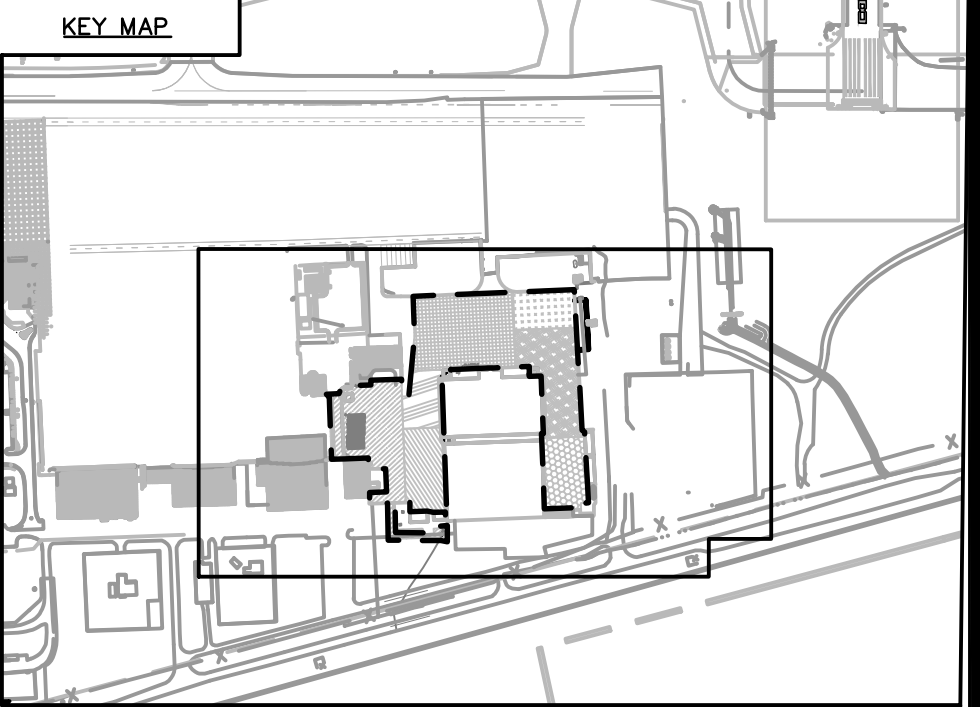
C-028



EXISTING BASINS			
BASIN	TOTAL AREA	IMPERVIOUS AREA	COMPOSITE "C"
1	0.57	0.57	0.95
2	1.11	1.11	0.95
3	0.83	0.78	0.91
4	2.00	1.95	0.94
5	1.06	0.97	0.90
6	0.04	0.04	0.95
7	0.02	0.02	0.95
8	0.17	0.10	0.95
9	0.04	0.04	0.95

WORK AREA PHASING LIMITS:

-  WORK AREA 1A
-  WORK AREA 1B
-  WORK AREA 1C
-  WORK AREA 2A
-  WORK AREA 2B
-  WORK AREA 3A



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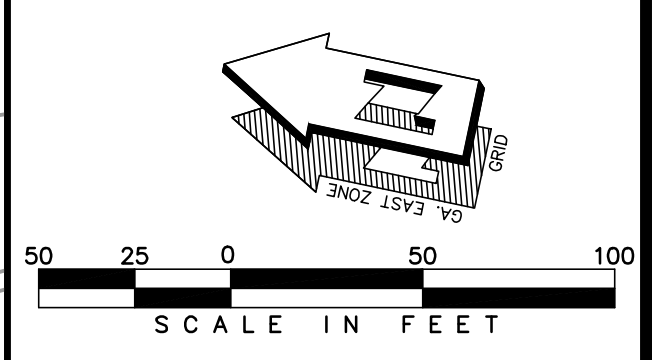


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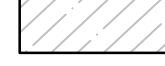
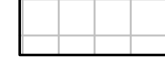







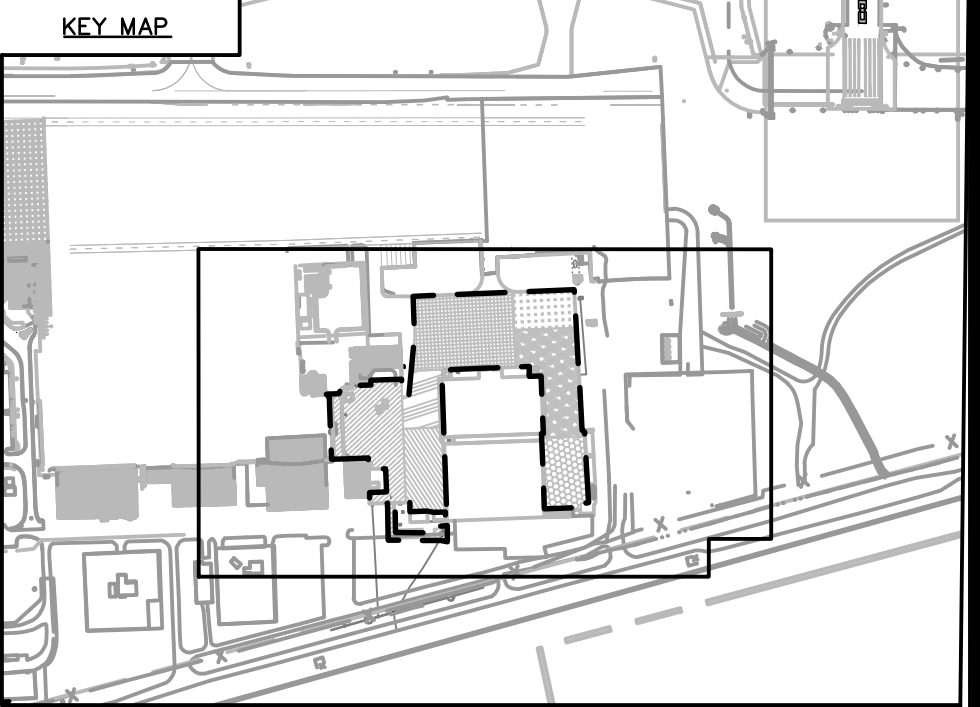
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PROPOSED BASINS			
BASIN	TOTAL AREA	IMPERVIOUS AREA	COMPOSITE "C"
1	0.52	0.52	0.95
2	1.18	1.18	0.95
3	0.84	0.84	0.95
4	2.00	1.95	0.94
5	1.08	1.00	0.90
6	0.04	0.04	0.95
7	0.02	0.02	0.95
8	0.14	0.14	0.95
9	0.04	0.04 </td <td>0.95</td>	0.95

WORK AREA PHASING LIMITS:

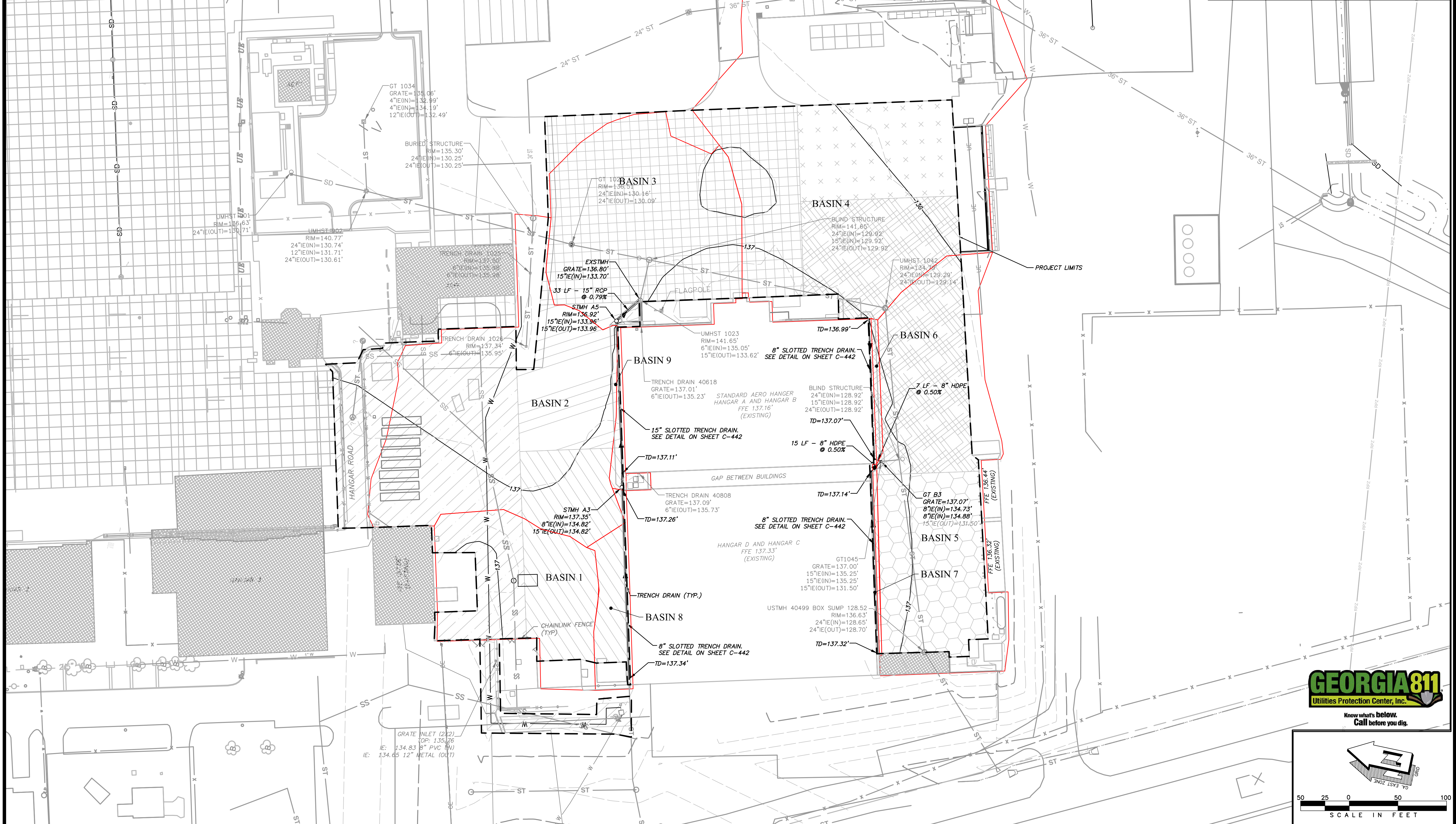
-  WORK AREA 1A
-  WORK AREA 1B
-  WORK AREA 1C
-  WORK AREA 2A
-  WORK AREA 2B
-  WORK AREA 3A
-  WORK AREA 3B



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**AUGUSTA REGIONAL AIRPORT
REHABILITATION OF
STANDARD AERORAMP**
1550 HANGAR ROAD, AUGUSTA, GA 30906

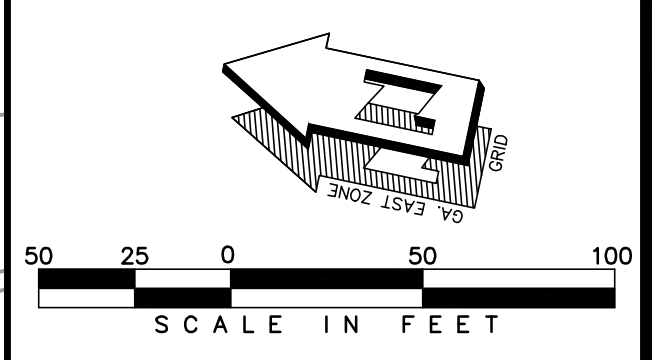
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GEORGIA REGISTERED ENGINEER
MICHELL B. MURPHY
4-22-2022

CARES: 3-13-0011-045-2020
M&H NO.: 0119700-202062.01
DATE: APRIL 22, 2022
DESIGNED BY: WPM
DRAWN BY: MAB
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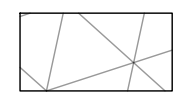
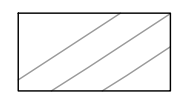
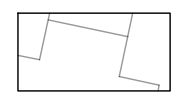
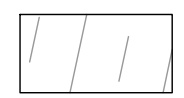
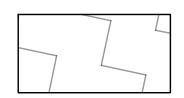
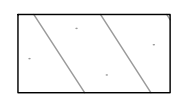

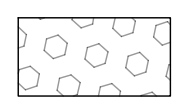
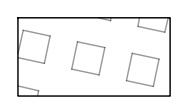
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PROPOSED DRAINAGE BASIN

SHEET NO.: **C-030**



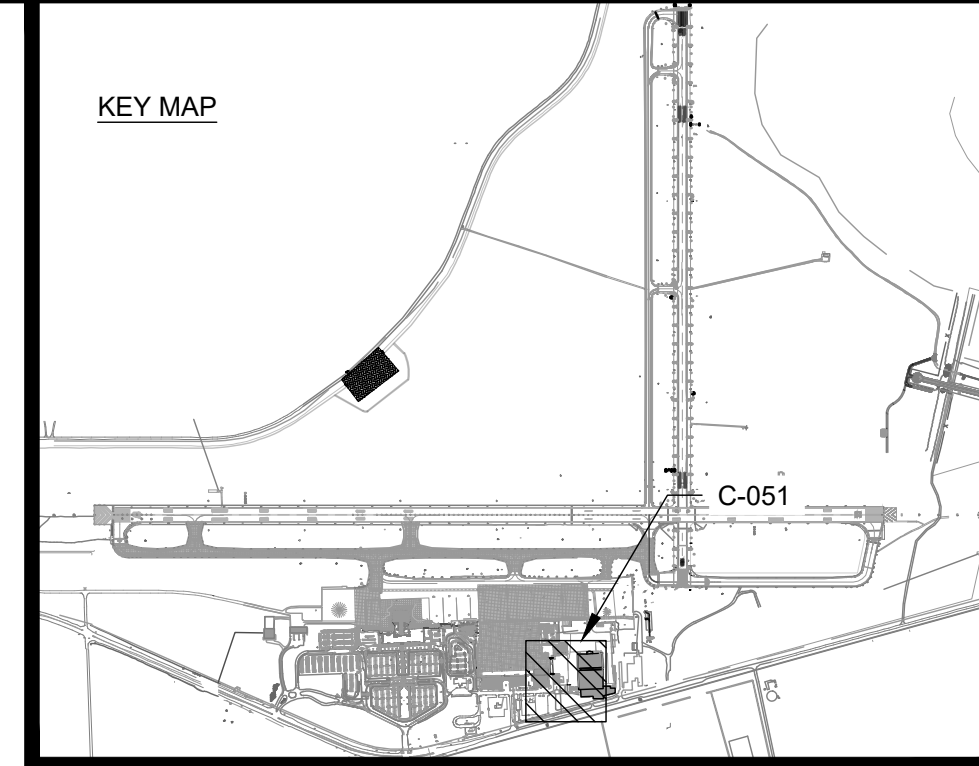
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LEGEND

	DEMOLITION SECTION 1		DEMOLITION SECTION 4		DEMOLITION SECTION 7
	DEMOLITION SECTION 2		DEMOLITION SECTION 5		DEMOLITION SECTION 8
	DEMOLITION SECTION 3		DEMOLITION SECTION 6		DEMOLITION SECTION 9

NOTES:

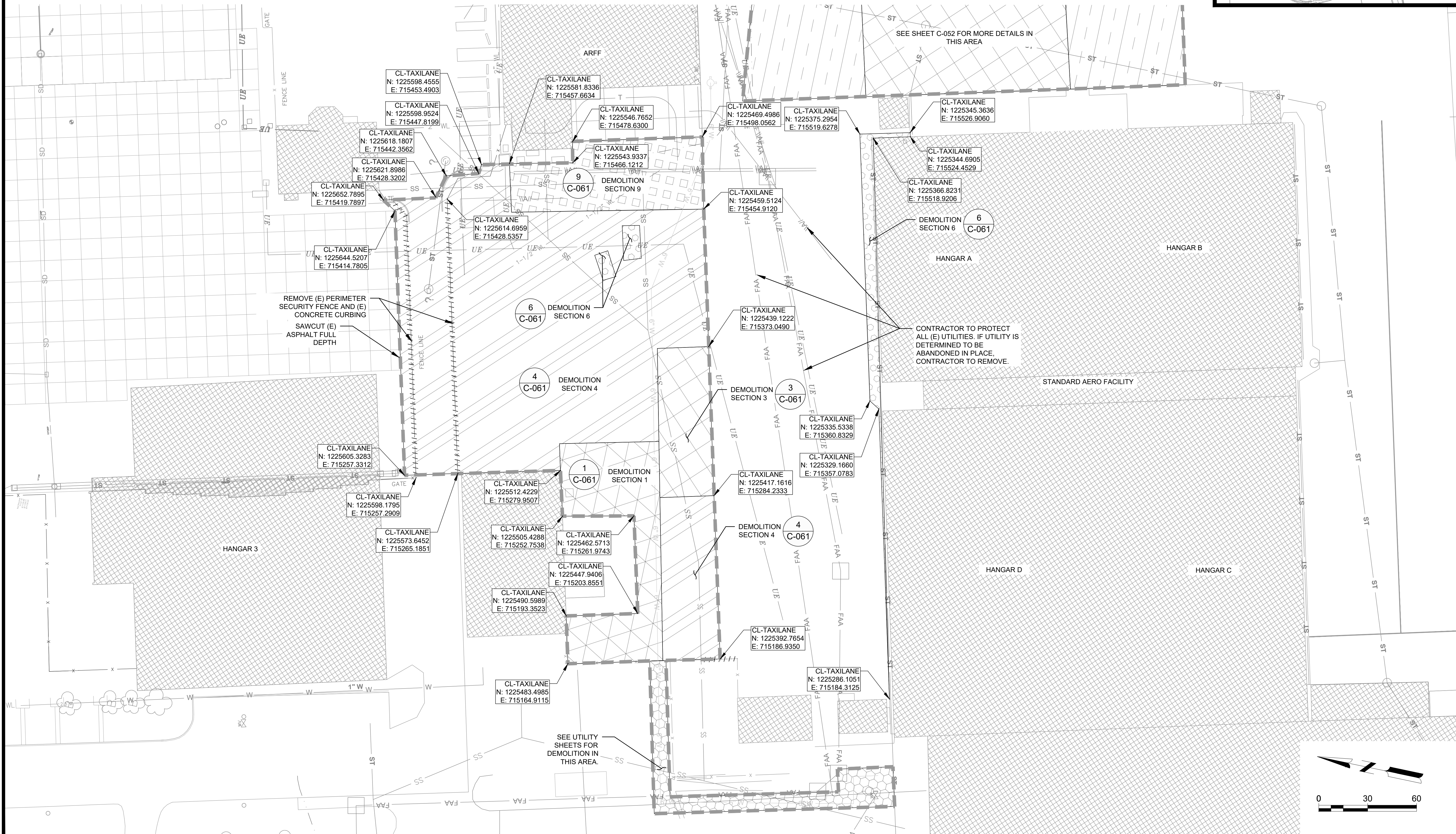
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- CONTRACTOR TO VERIFY DEMOLITION DEPTHS.



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**AUGUSTA REGIONAL AIRPORT
 REHABILITATION OF STANDARD
 AERO RAMP**
 1501 AVIATION WAY
 AUGUSTA, GA 30906-9620

ISSUED FOR BID

NOT FOR CONSTRUCTION

CARES:	3-13-0011-045-2020
MSH NO.:	0119700-202062.01
DATE:	APRIL 22, 2022
DESIGNED BY:	NJH
DRAWN BY:	NJH
CHECKED BY:	DES
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SHEET CONTENTS
 DEMOLITION
 PLAN-BASE BID

SHEET NO.

C-051

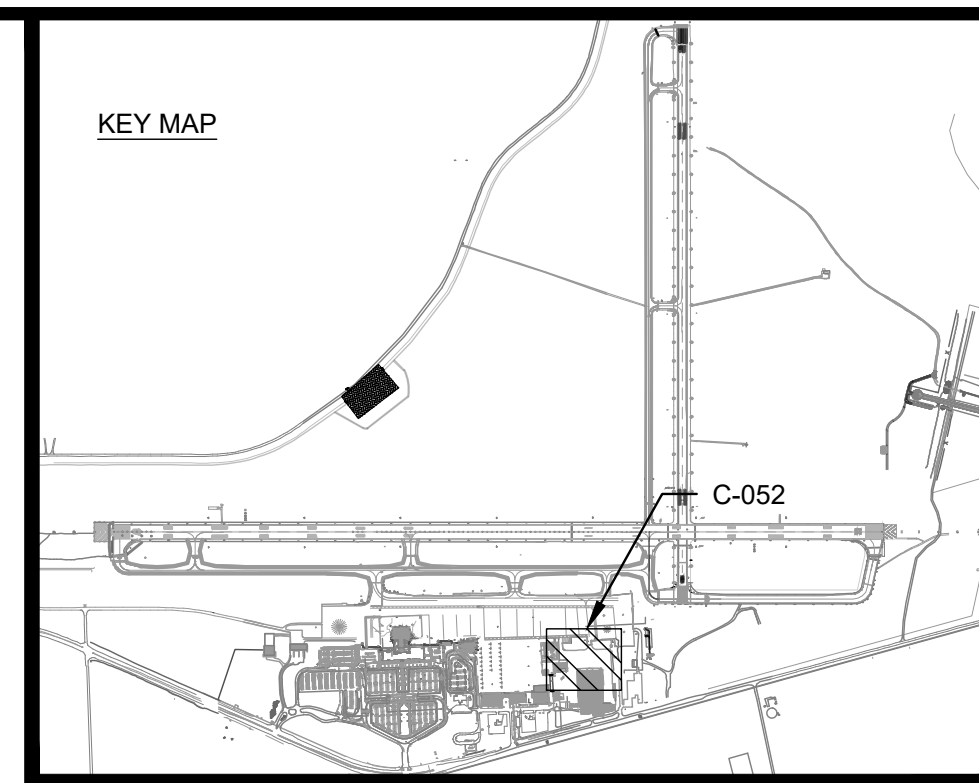
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LEGEND

	DEMOLITION SECTION 1		DEMOLITION SECTION 4		DEMOLITION SECTION 7
	DEMOLITION SECTION 2		DEMOLITION SECTION 5		DEMOLITION SECTION 8
	DEMOLITION SECTION 3		DEMOLITION SECTION 6		DEMOLITION SECTION 9

NOTES:

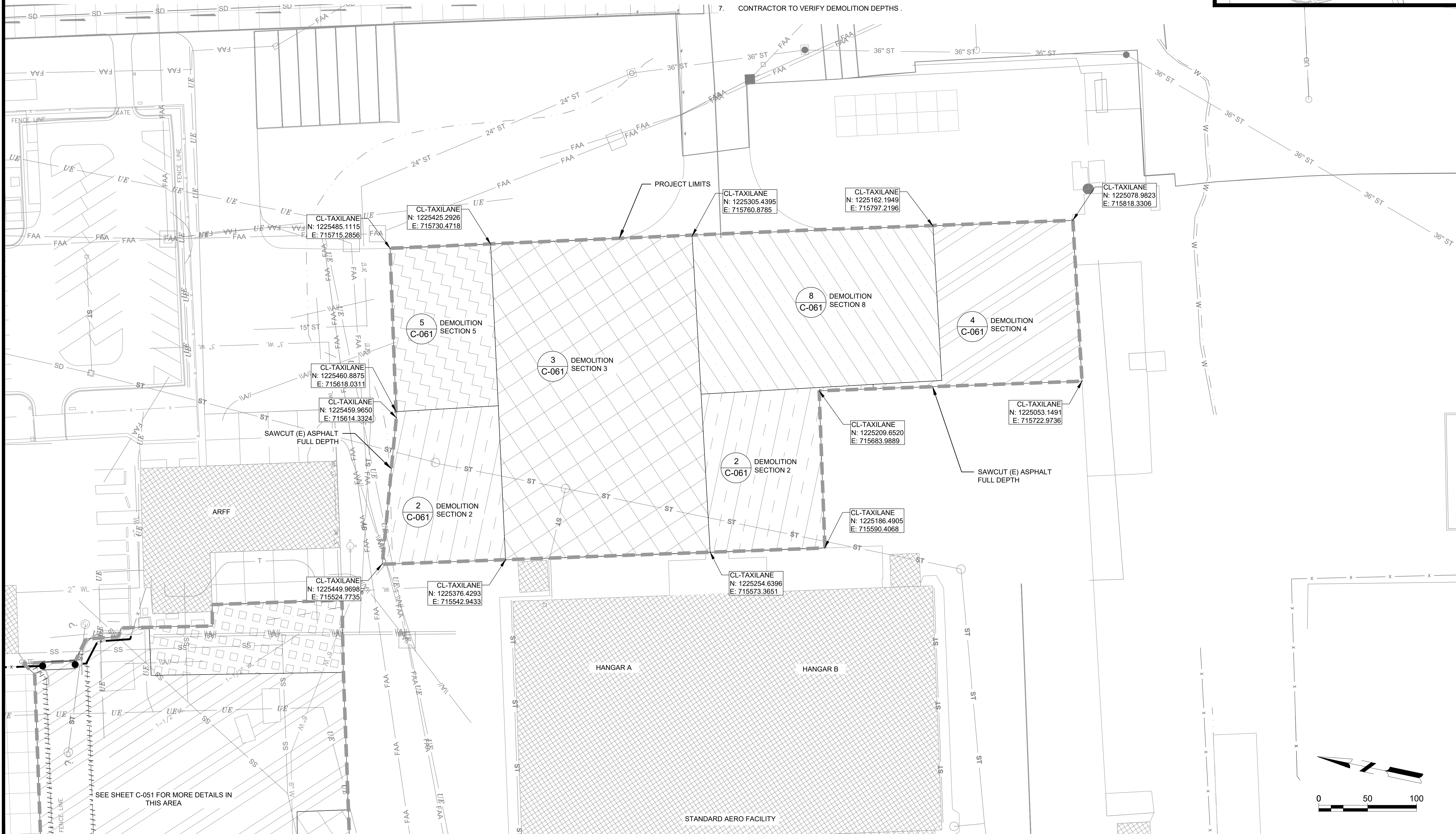
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**AUGUSTA REGIONAL AIRPORT
 REHABILITATION OF STANDARD
 AERO RAMP**
 1501 AVIATION WAY
 AUGUSTA, GA 30906-9620

ISSUED
 ISSUED FOR BID

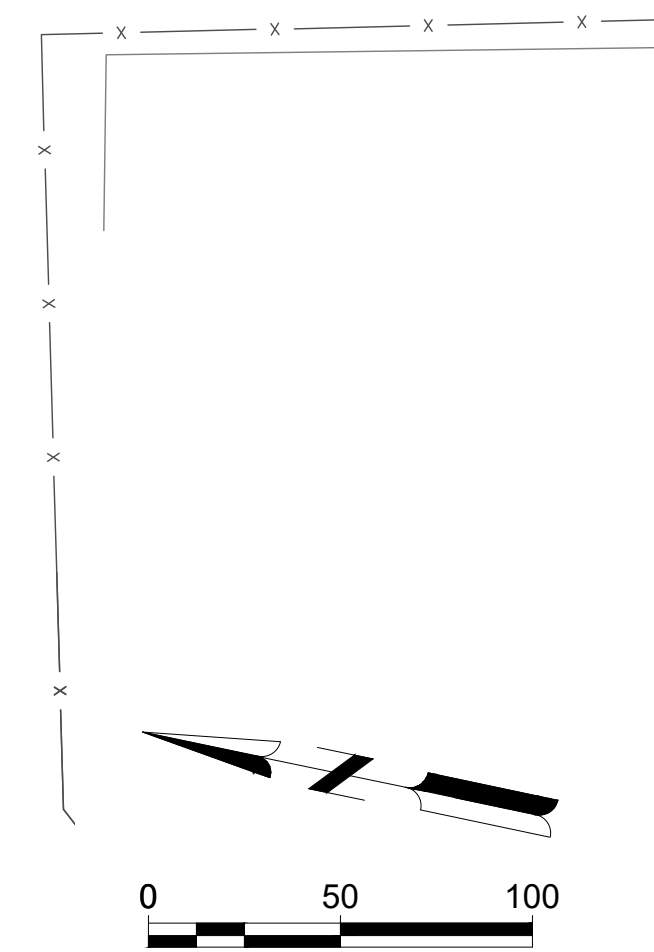
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CARES: 3-13-011-045-2020
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SHEET CONTENTS
 DEMOLITION
 PLAN-BASE BID

SHEET NO.

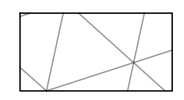
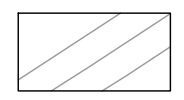
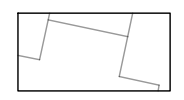
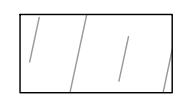
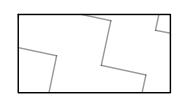
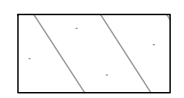

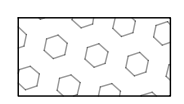
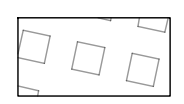
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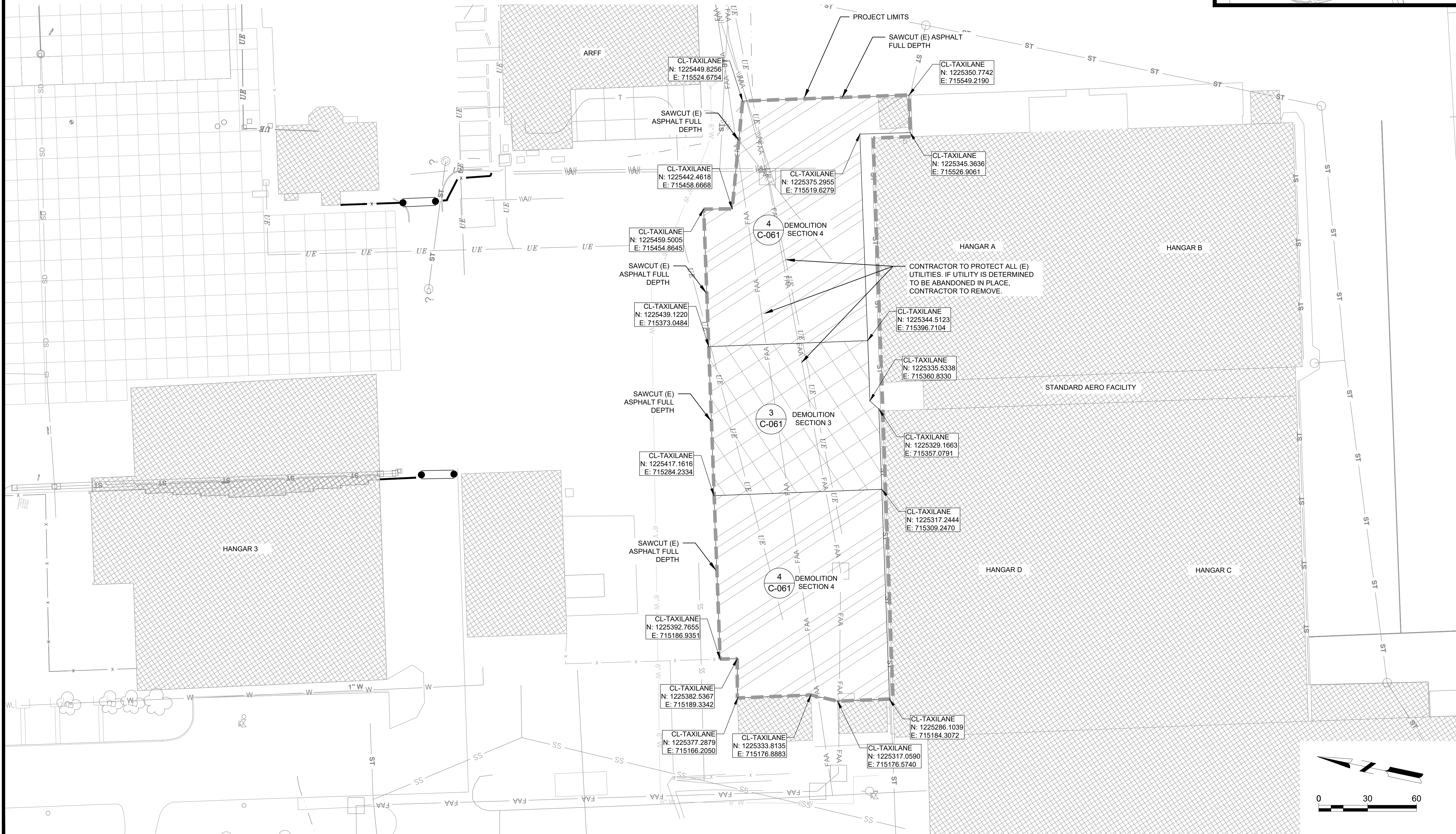
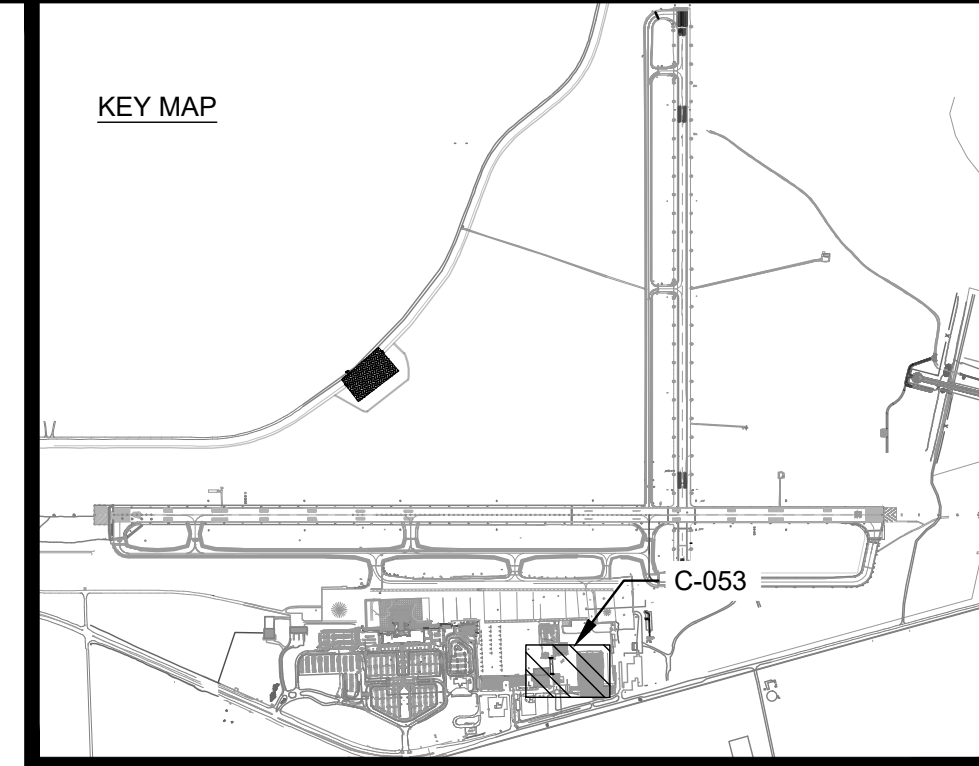
SEE SHEET C-051 FOR MORE DETAILS IN THIS AREA

LEGEND

	DEMOLITION SECTION 1		DEMOLITION SECTION 4		DEMOLITION SECTION 7
	DEMOLITION SECTION 2		DEMOLITION SECTION 5		DEMOLITION SECTION 8
	DEMOLITION SECTION 3		DEMOLITION SECTION 6		DEMOLITION SECTION 9

NOTES:

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**AUGUSTA REGIONAL AIRPORT
REHABILITATION OF STANDARD
AERO RAMP**
1501 AVIATION WAY
AUGUSTA, GA 30906-9620

ISSUED
ISSUED FOR BID

NOT FOR CONSTRUCTION

CARES: 3-13-0011-045-2020
M&H NO: 0119700-202062.01
DATE: APRIL 22, 2022
DESIGNED BY: NJH
DRAWN BY: NJH
CHECKED BY: DES
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SHEET CONTENTS
DEMOLITION PLAN-BID
ALT 1

SHEET NO.

C-053

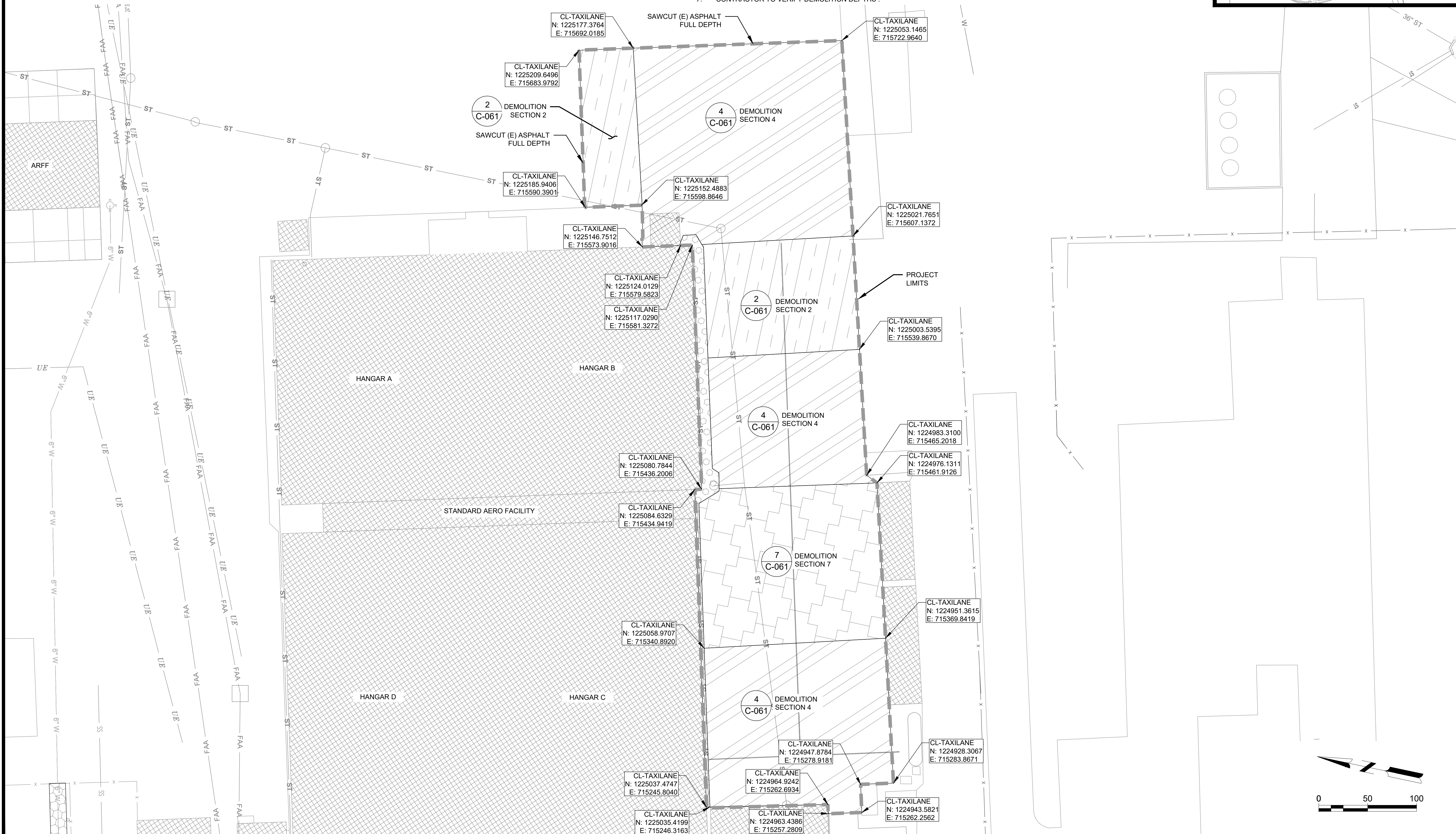
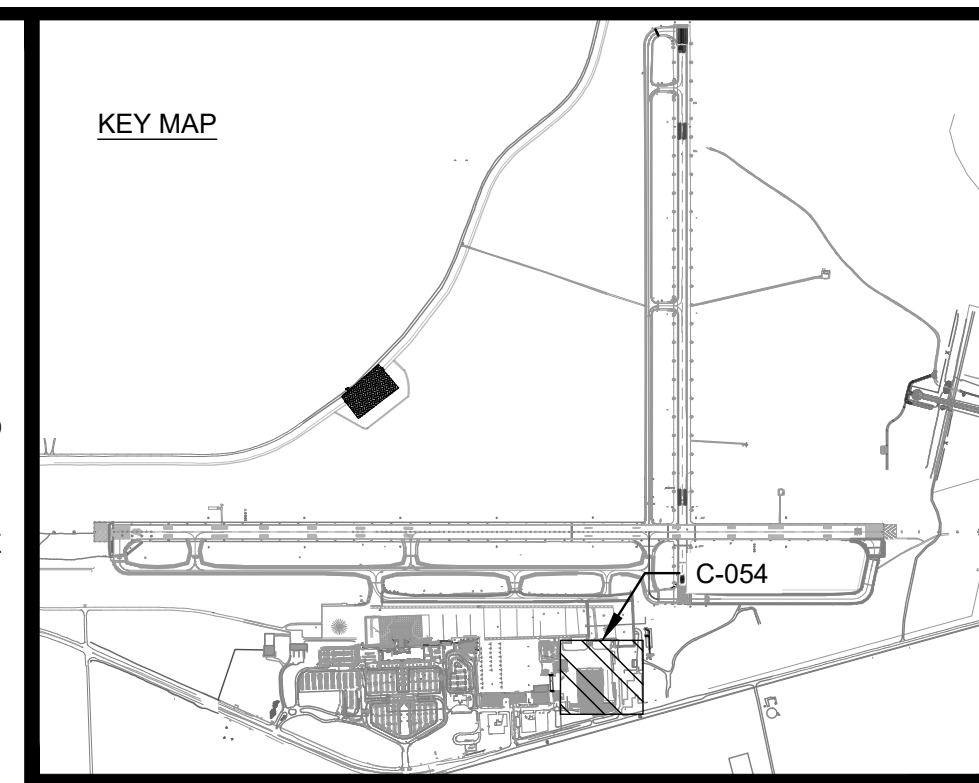
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LEGEND

	DEMOLITION SECTION 1		DEMOLITION SECTION 4		DEMOLITION SECTION 7
	DEMOLITION SECTION 2		DEMOLITION SECTION 5		DEMOLITION SECTION 8
	DEMOLITION SECTION 3		DEMOLITION SECTION 6		DEMOLITION SECTION 9

NOTES:

- REFER TO SHEET C-061 FOR THE VARIOUS TYPES OF PAVEMENT SECTION DEMOLITION.
- LIMITS SHOWN BETWEEN DEMOLITION AREAS ARE BASED ON HISTORIC DATA. ACTUAL SECTION LIMITS TO BE DETERMINED AT TIME OF CONSTRUCTION. CONTRACTOR TO DETERMINE METHOD AND PRESENT TO CA TEAM FOR APPROVAL PRIOR TO CONSTRUCTION.
- 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.
- CONTRACTOR TO VERIFY DEMOLITION DEPTHS.



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 REHABILITATION OF STANDARD
 AERO RAMP**
 1501 AVIATION WAY
 AUGUSTA, GA 30906-9620

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 ISSUED FOR BID

NOT FOR CONSTRUCTION

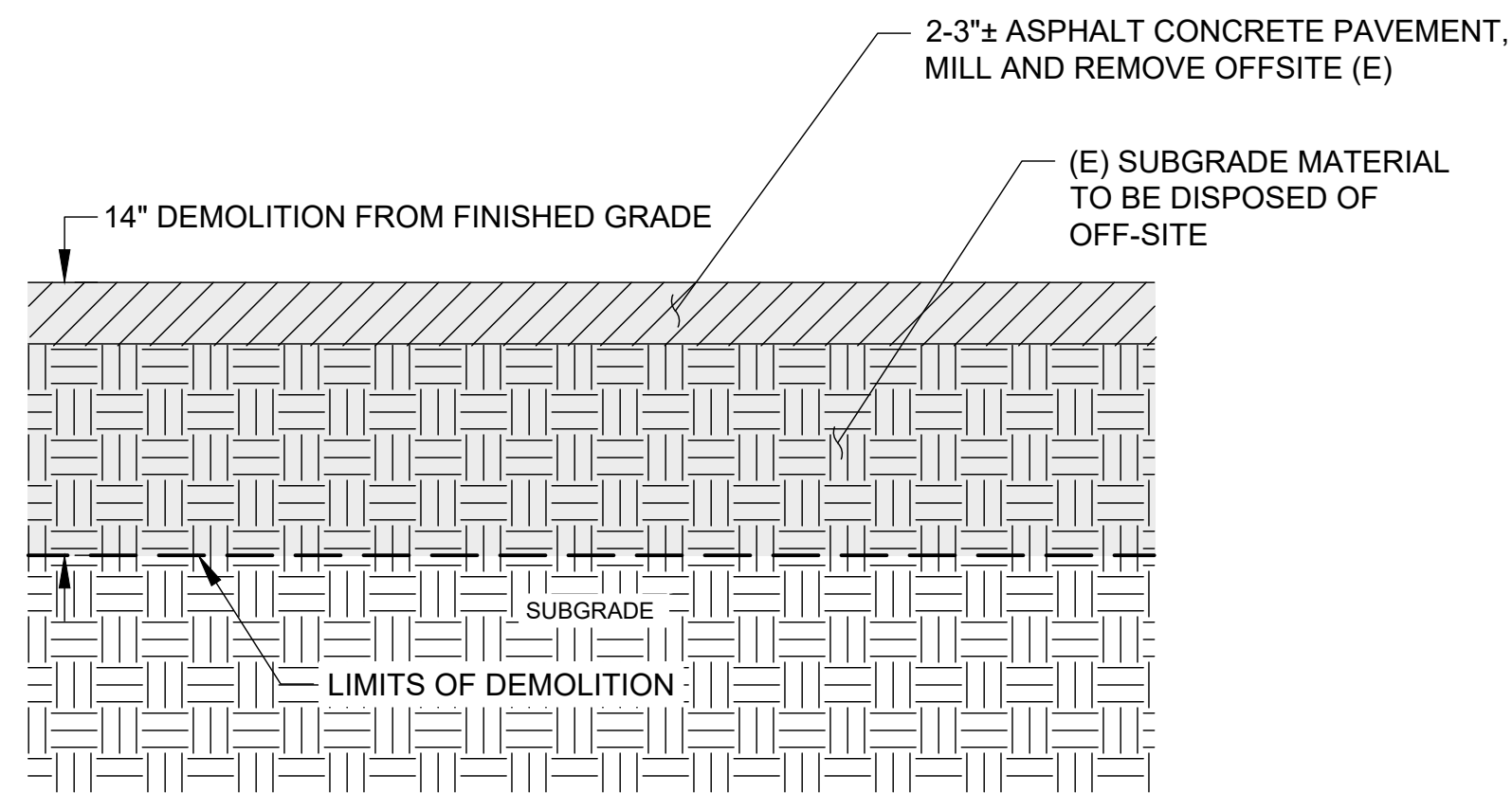
CARES: 3-13-0011-045-2020
 M&H NO: 0119700-202062.01
 DATE: APRIL 22, 2022
 DESIGNED BY: NJH
 DRAWN BY: NJH
 CHECKED BY: DES
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SHEET CONTENTS
 DEMOLITION PLAN-BID
 ALT 2

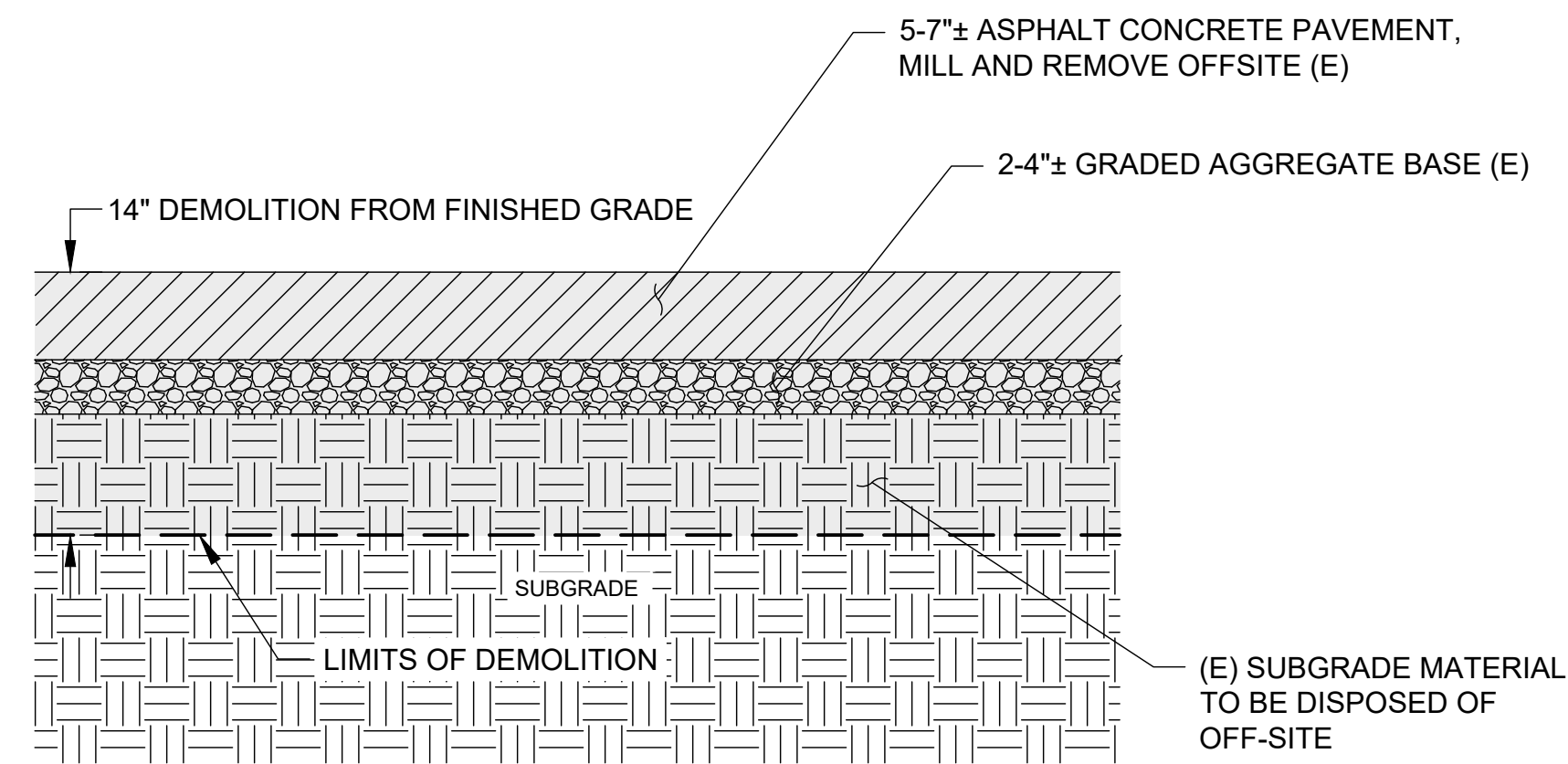
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C-054

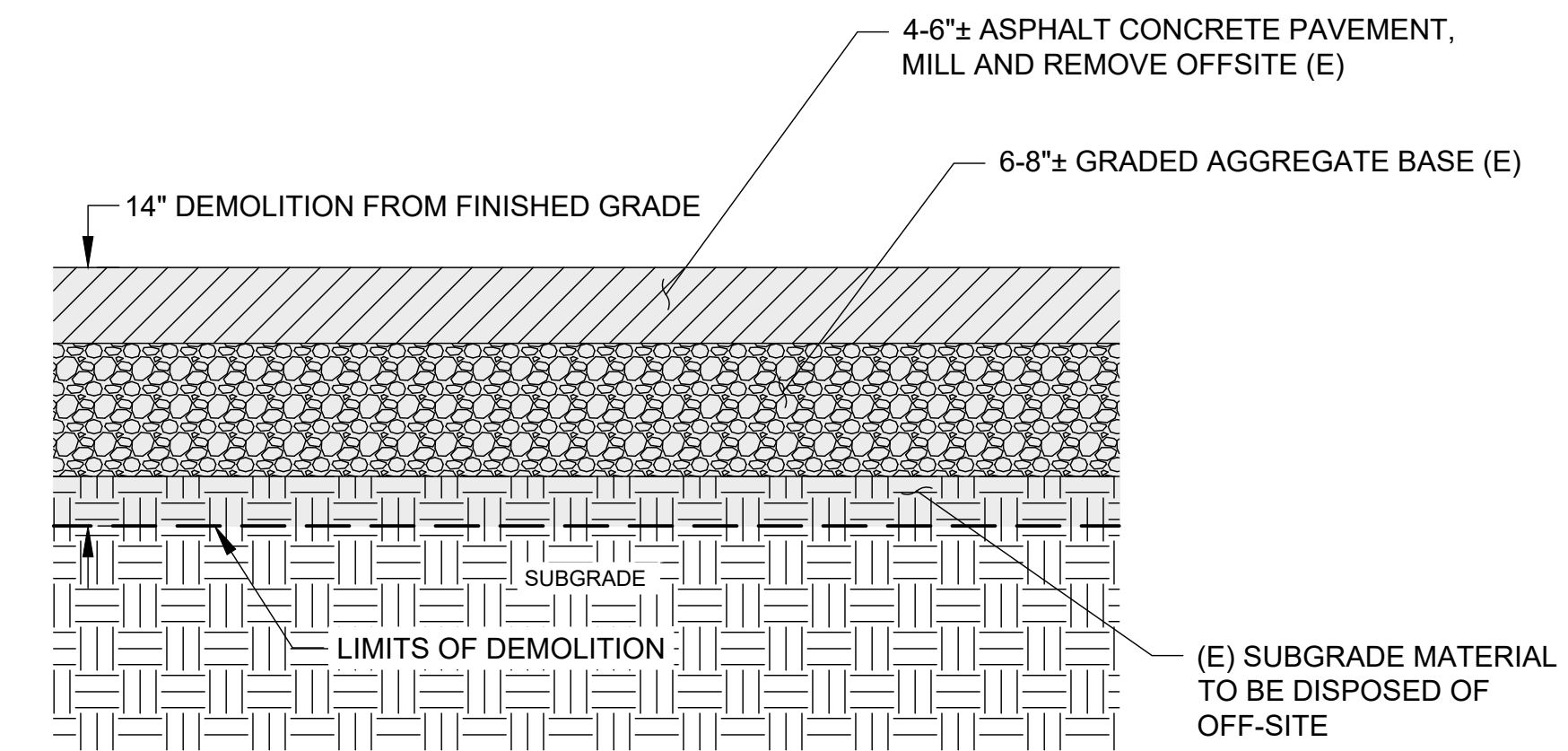
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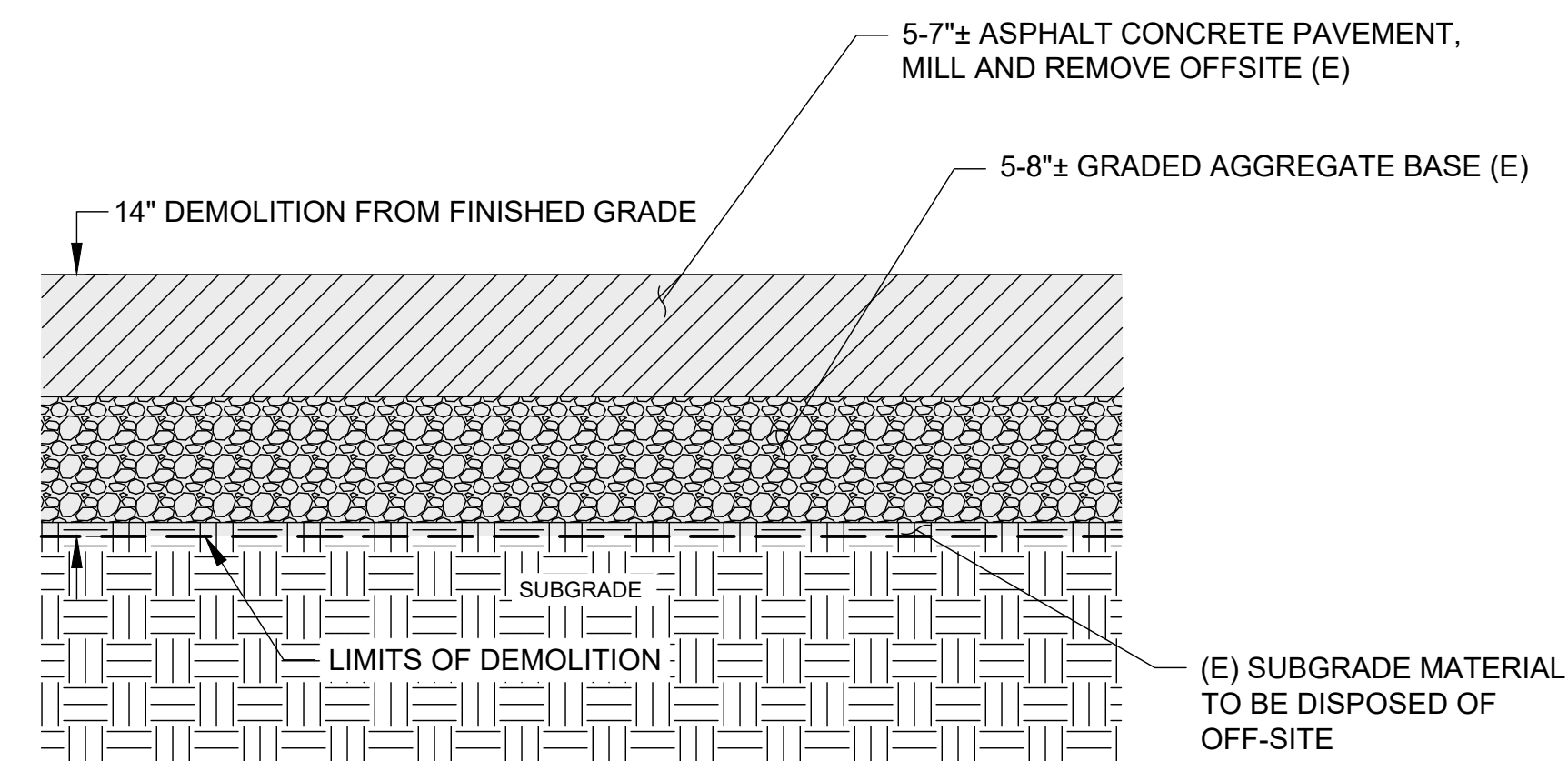
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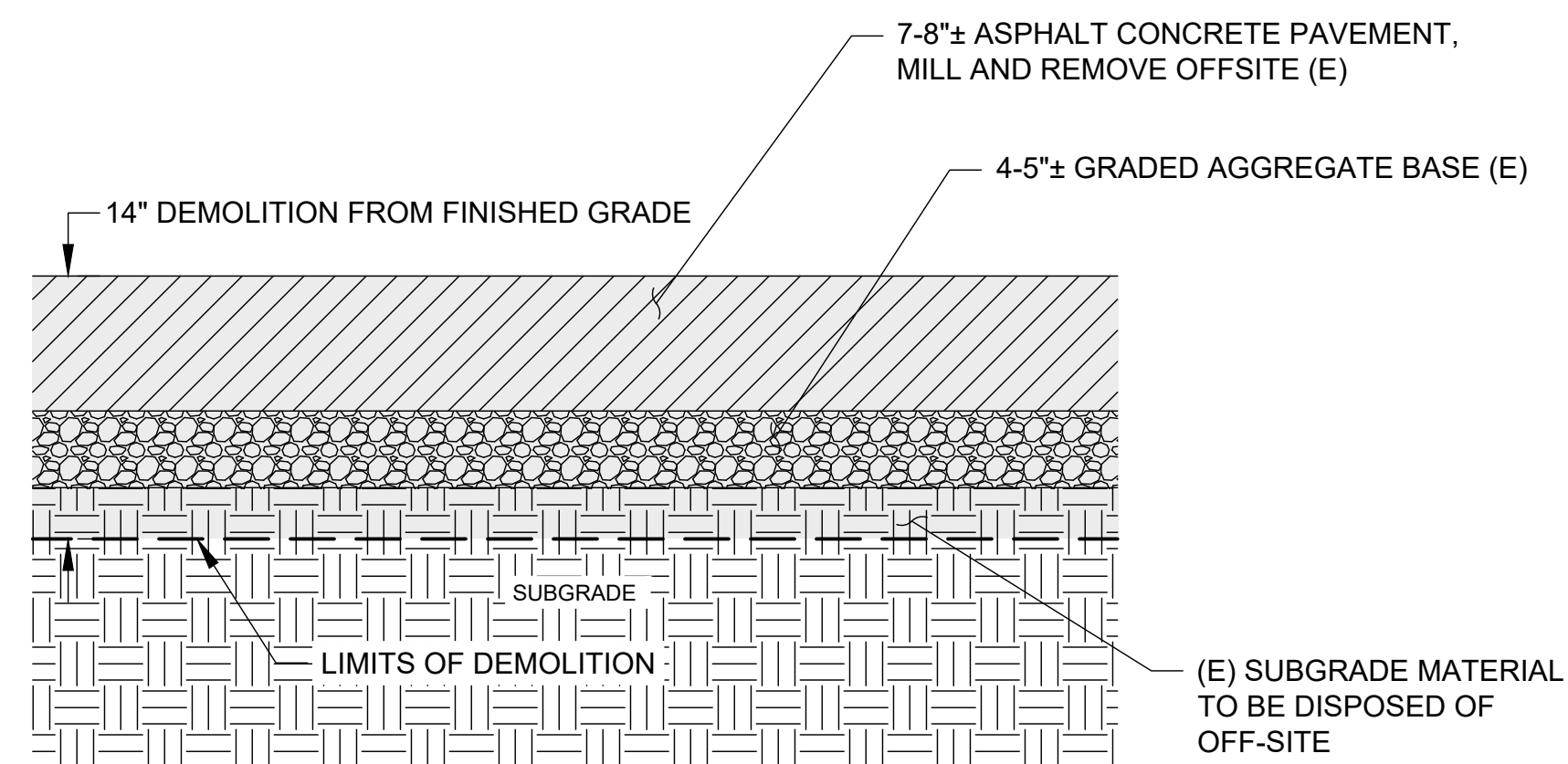
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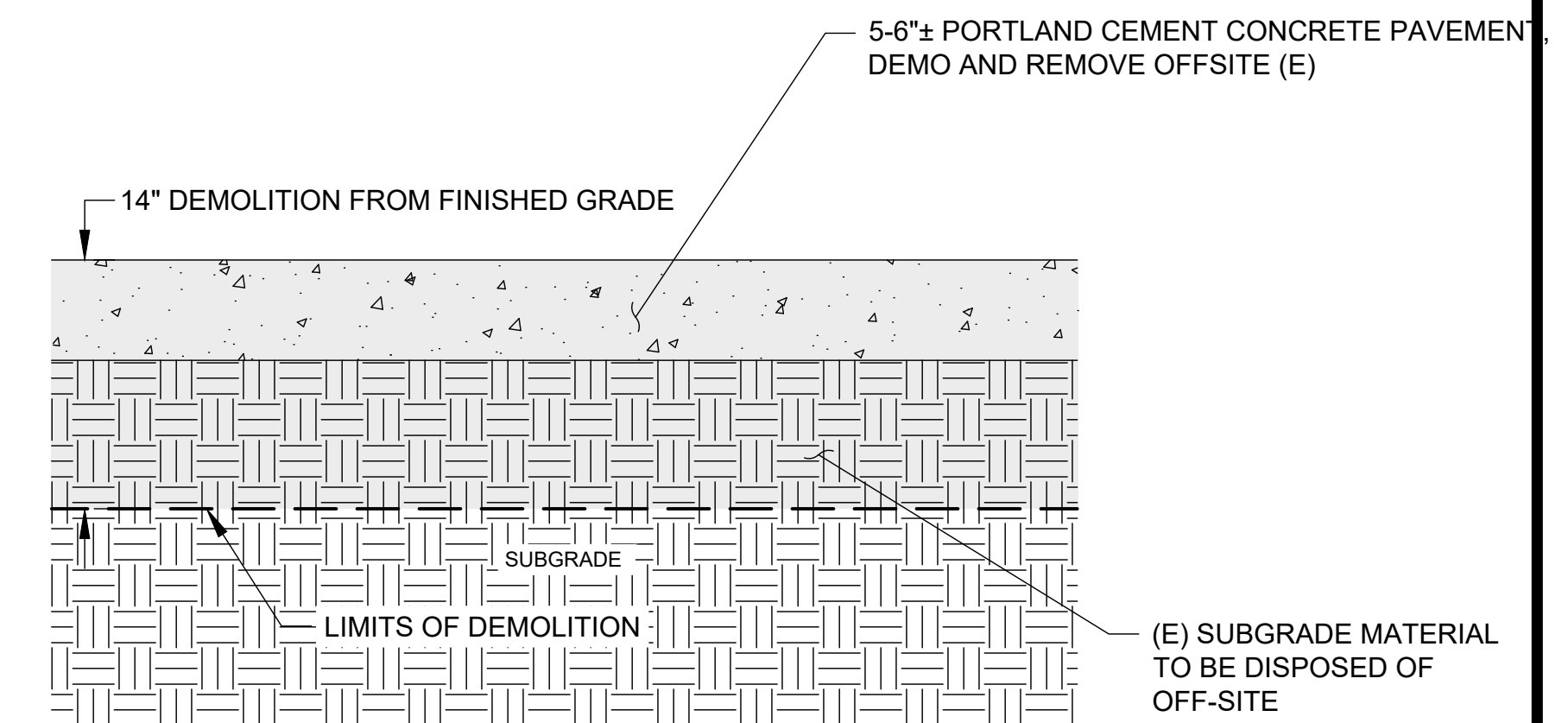
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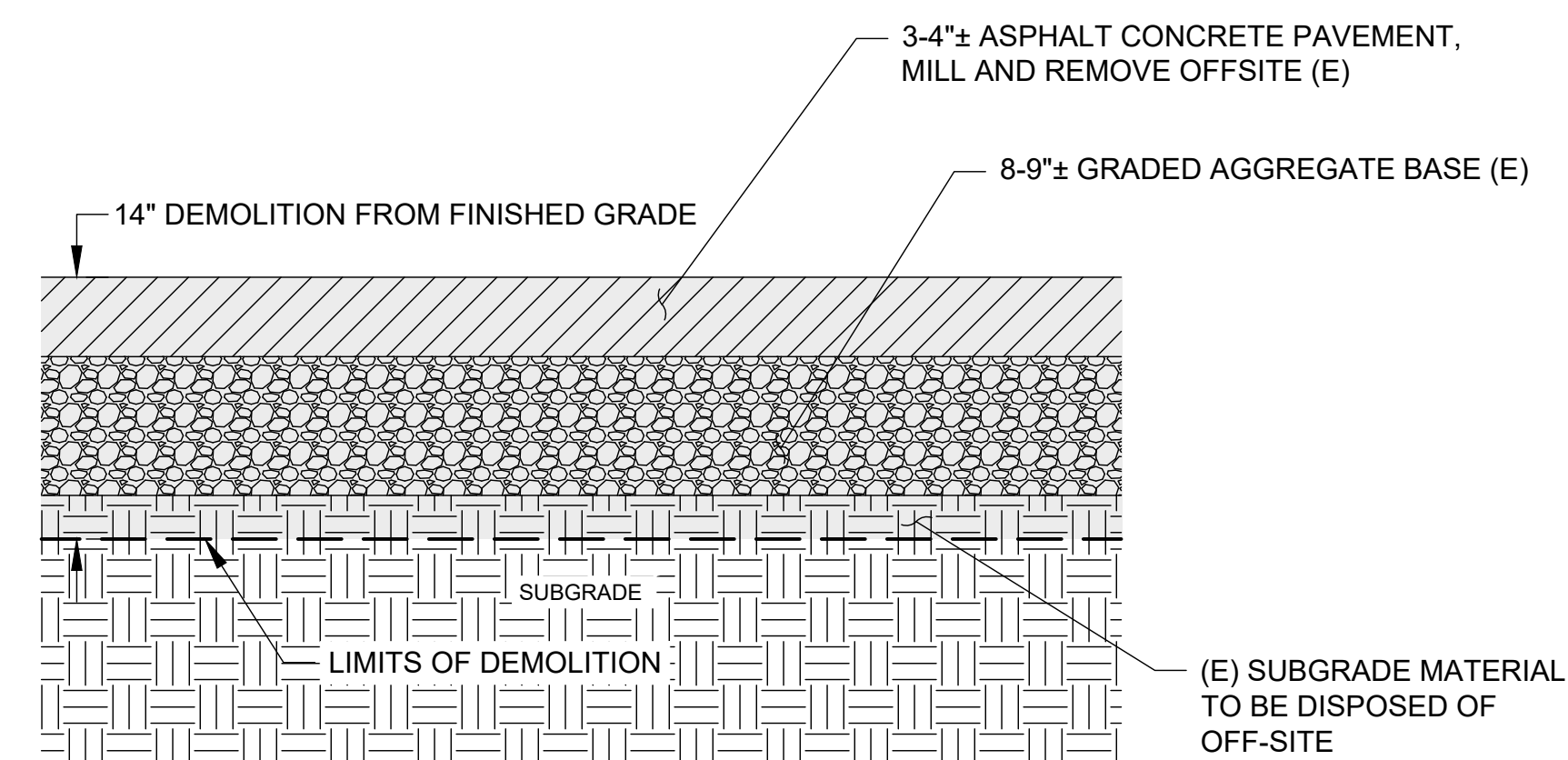
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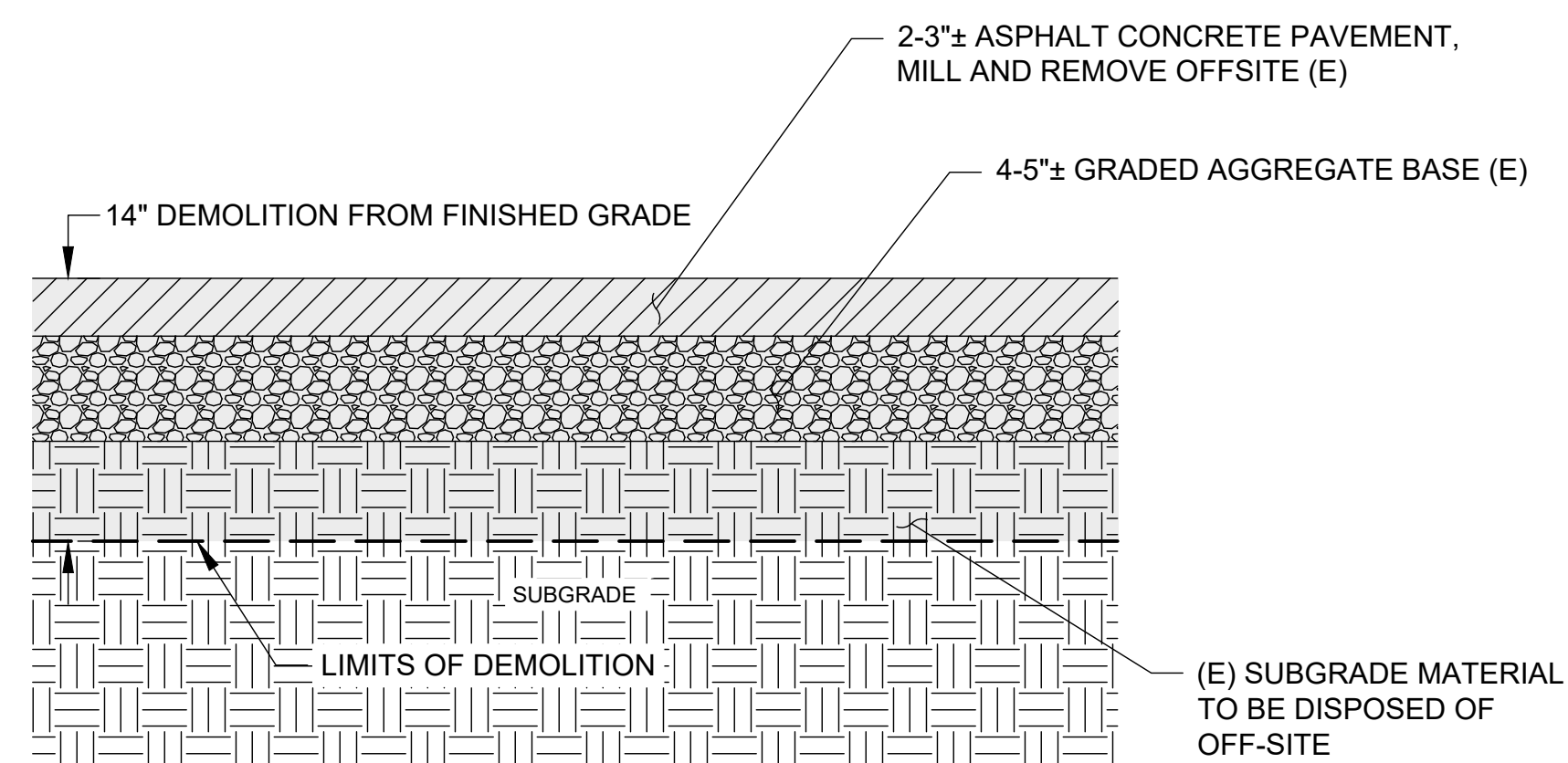
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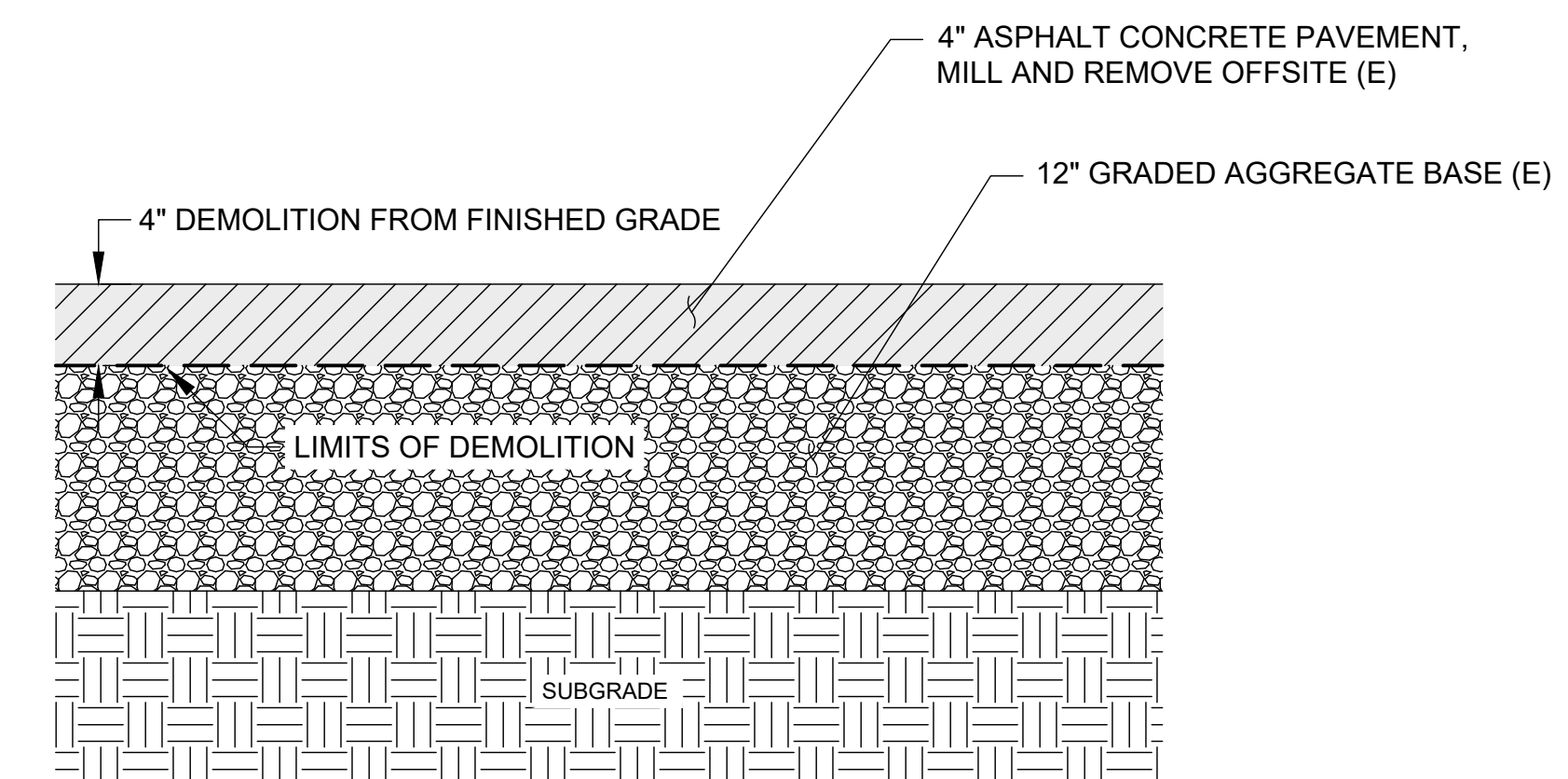
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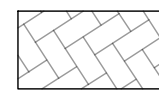


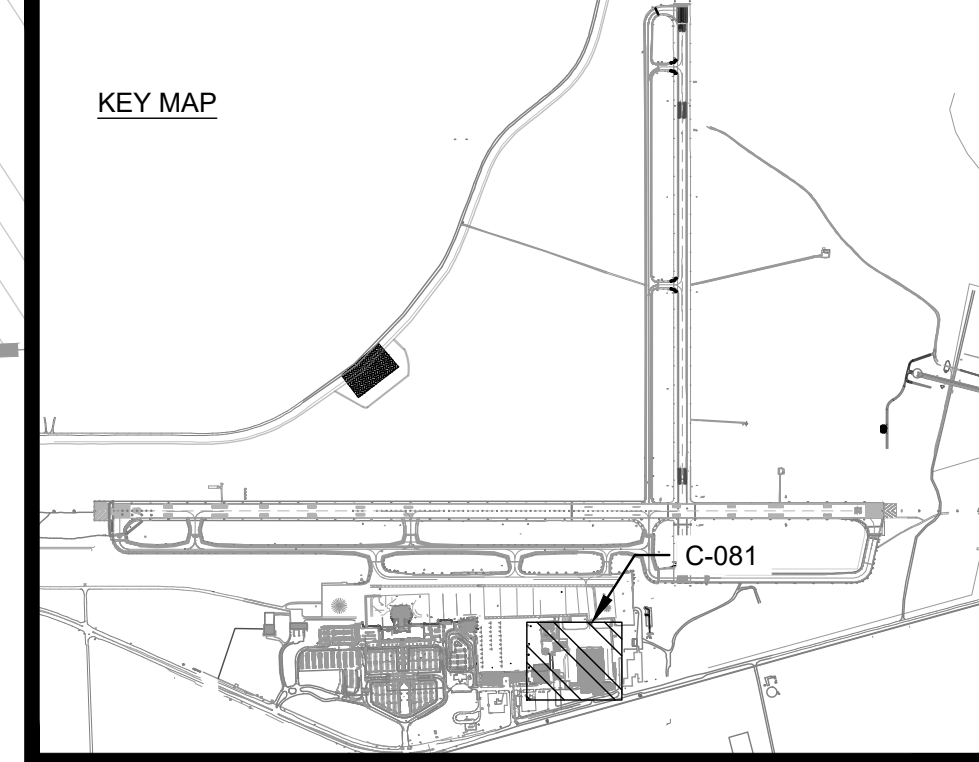
8 DEMOLITION SECTION
NOT TO SCALE



9 DEMOLITION SECTION
NOT TO SCALE

LEGEND

-  PROPOSED 4" P-401 / 10" P-209 PAVEMENT SECTION
-  PROPOSED 4" P-401 MILL & FILL OVERLAY
-  PROPOSED WATER MAIN CONSTRUCTION (SEE SHEET C-401)



FOR MORE DETAILS IN THIS AREA SEE SHEET C-082



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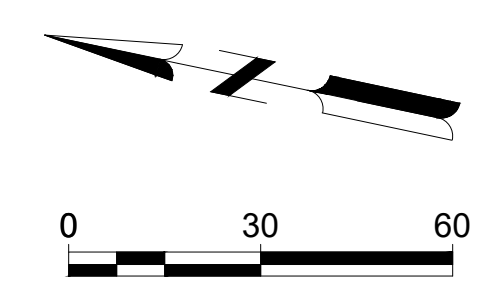
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SHEET CONTENTS
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 BID


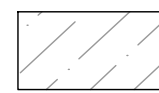
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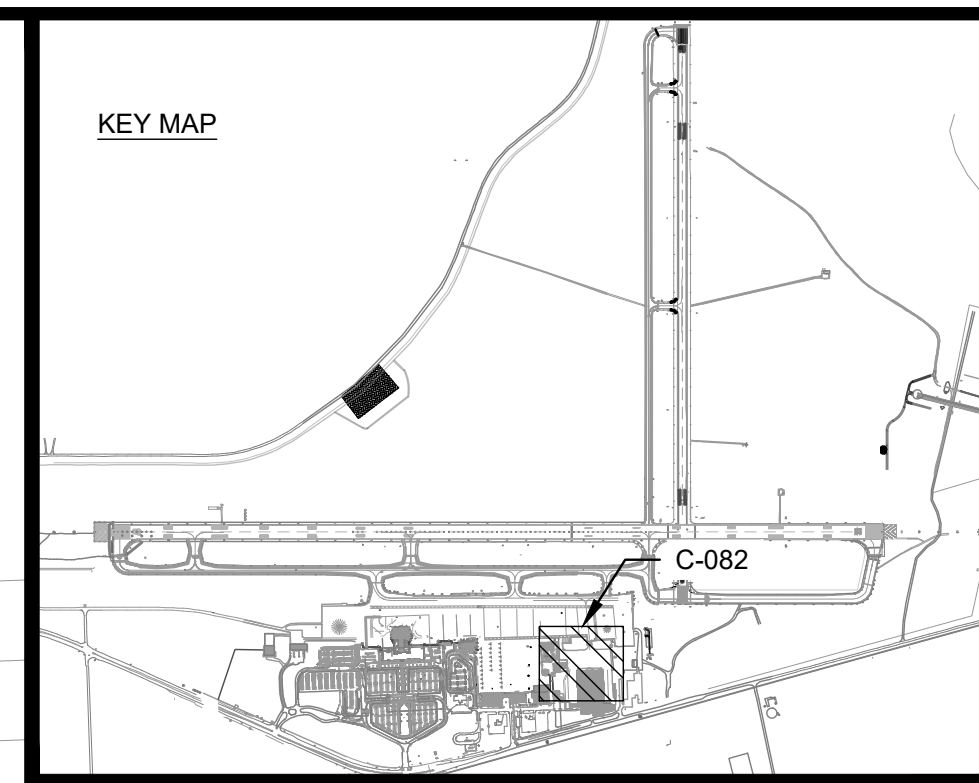
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LEGEND

-  PROPOSED 4" P-401 / 10" P-209 PAVEMENT SECTION
-  PROPOSED 4" P-401 MILL & FILL OVERLAY



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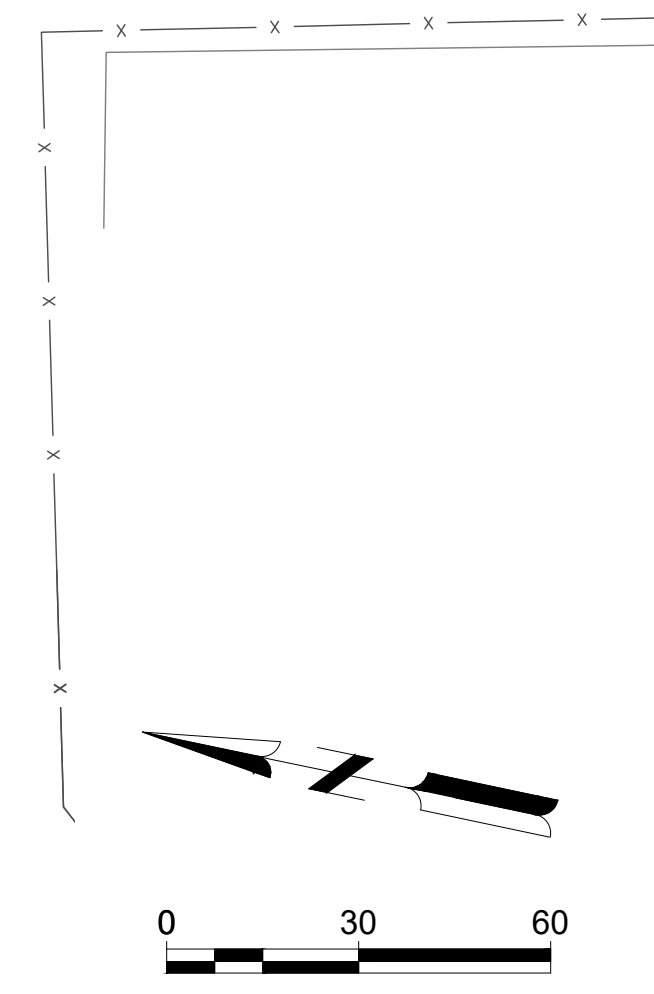
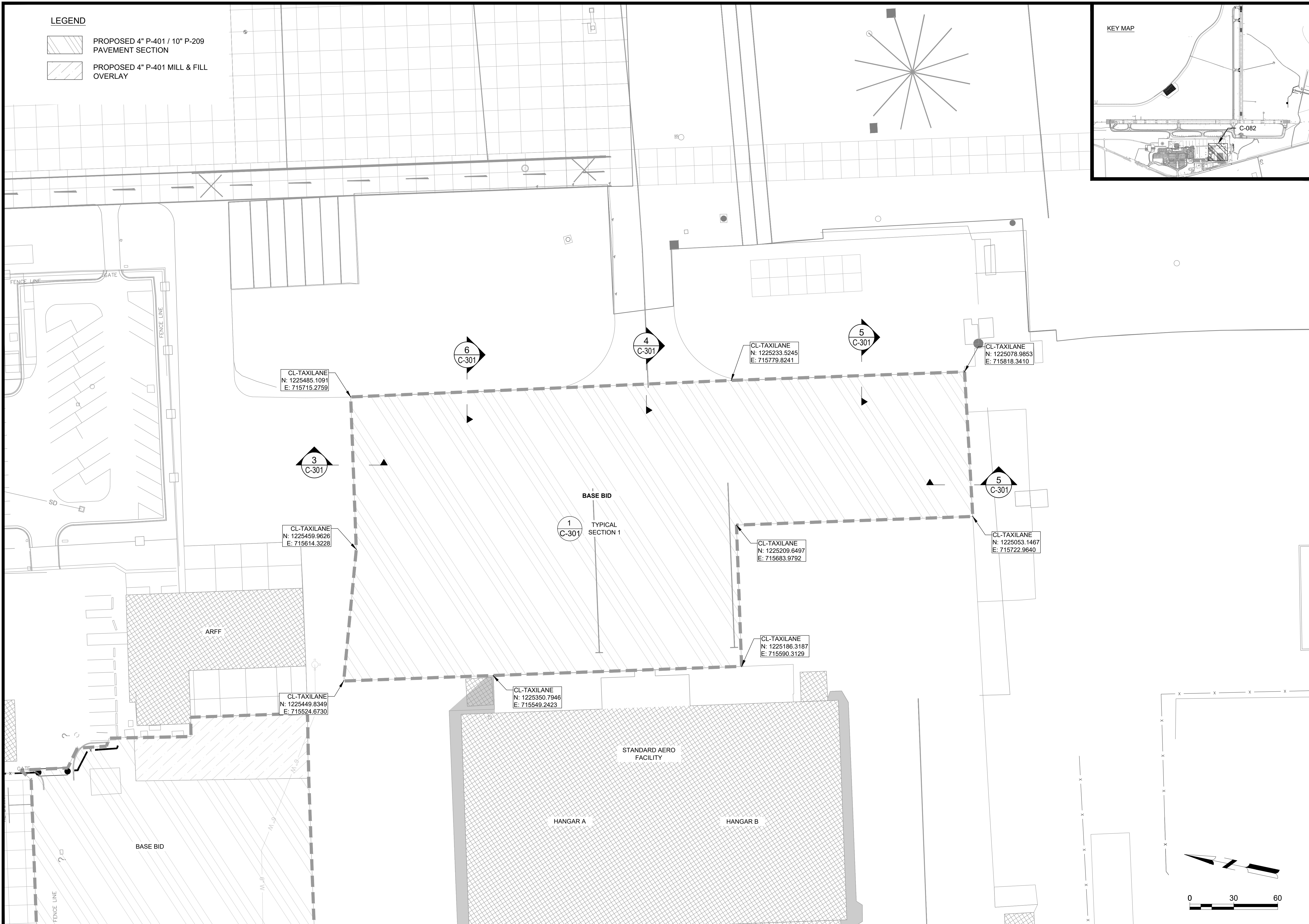
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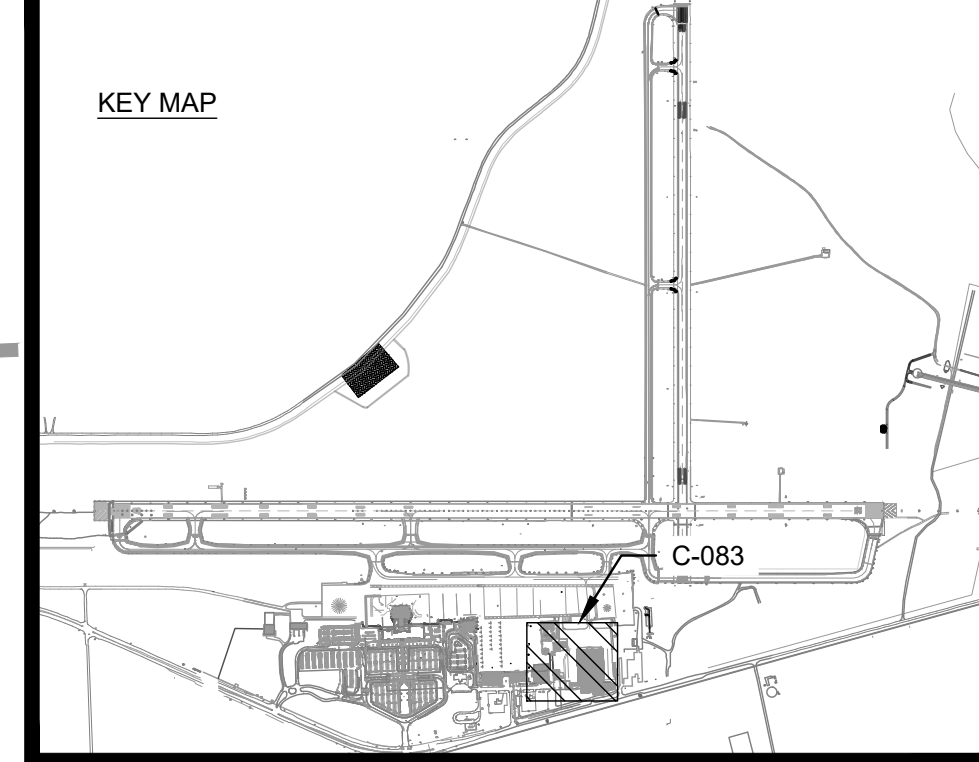
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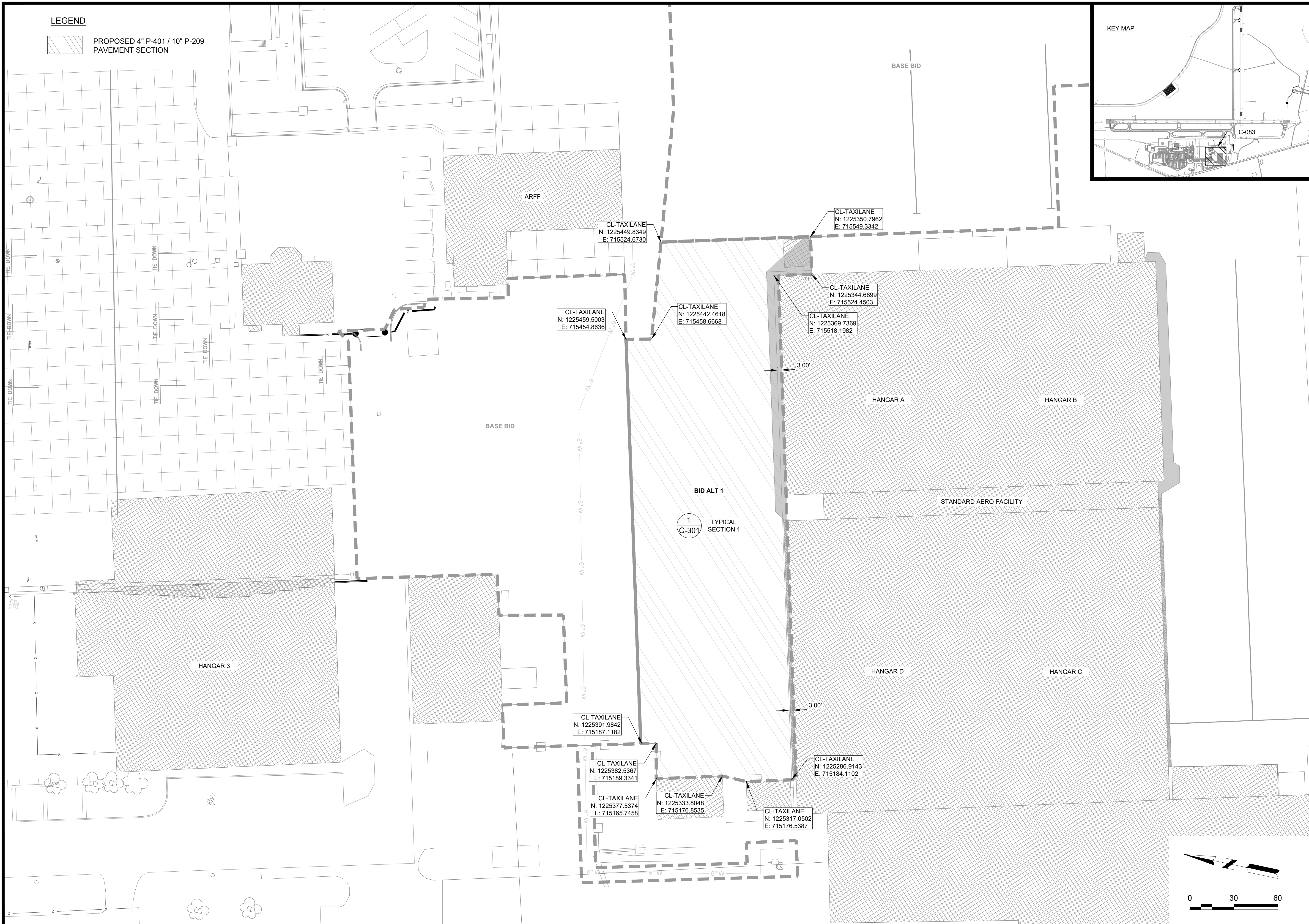
LEGEND
 PROPOSED 4" P-401 / 10" P-209 PAVEMENT SECTION



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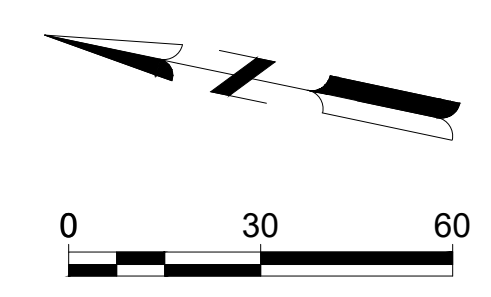
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SHEET CONTENTS
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 ALT 1

SHEET NO.

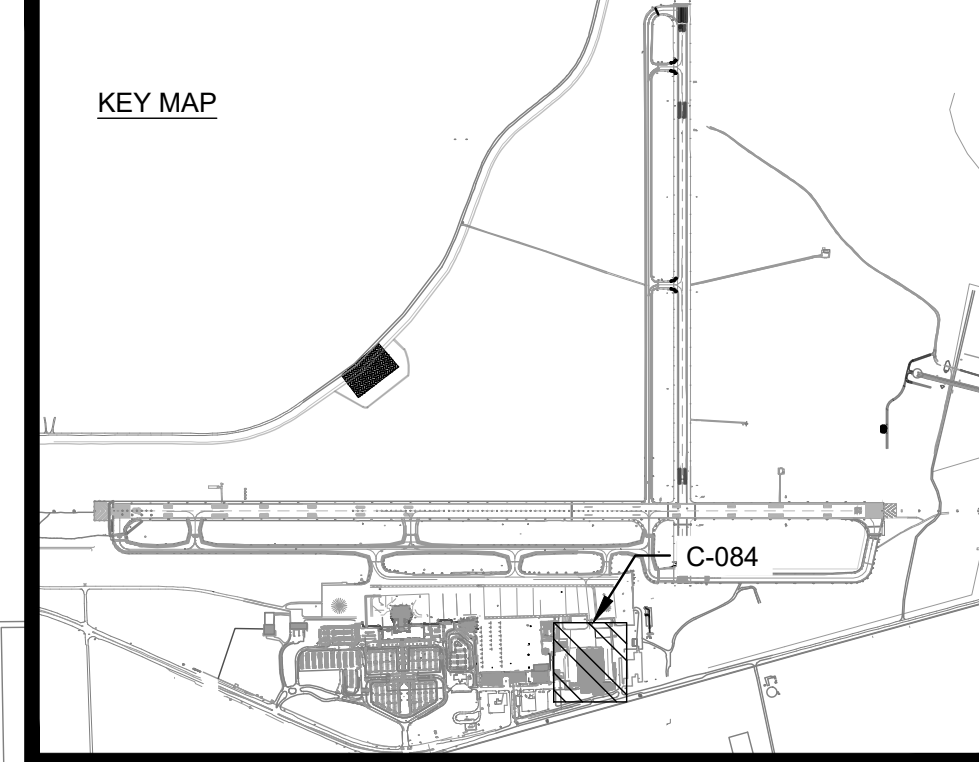
C-083



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LEGEND

PROPOSED 4" P-401 / 10" P-209 PAVEMENT SECTION



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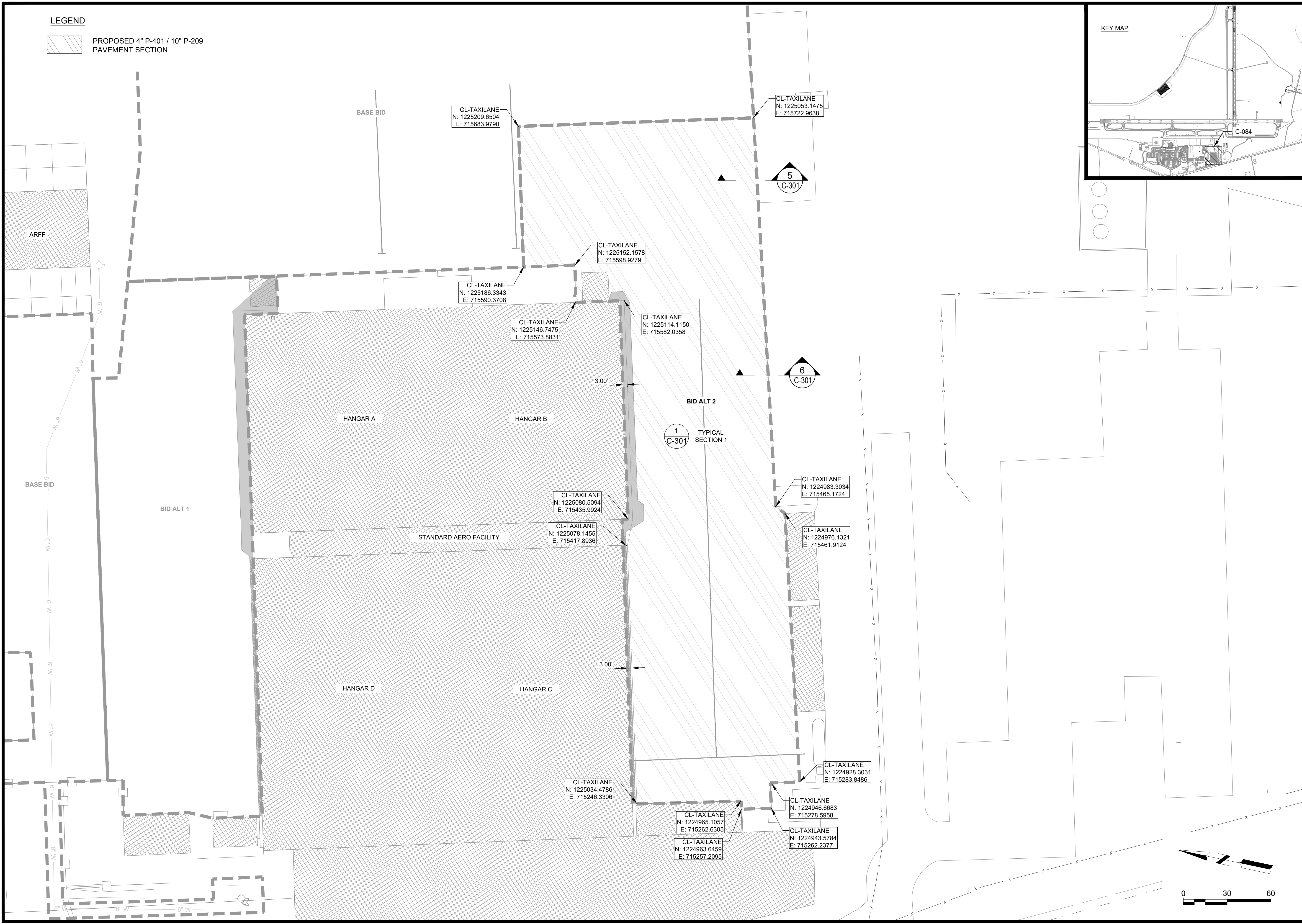
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 ALT 2

SHEET NO.

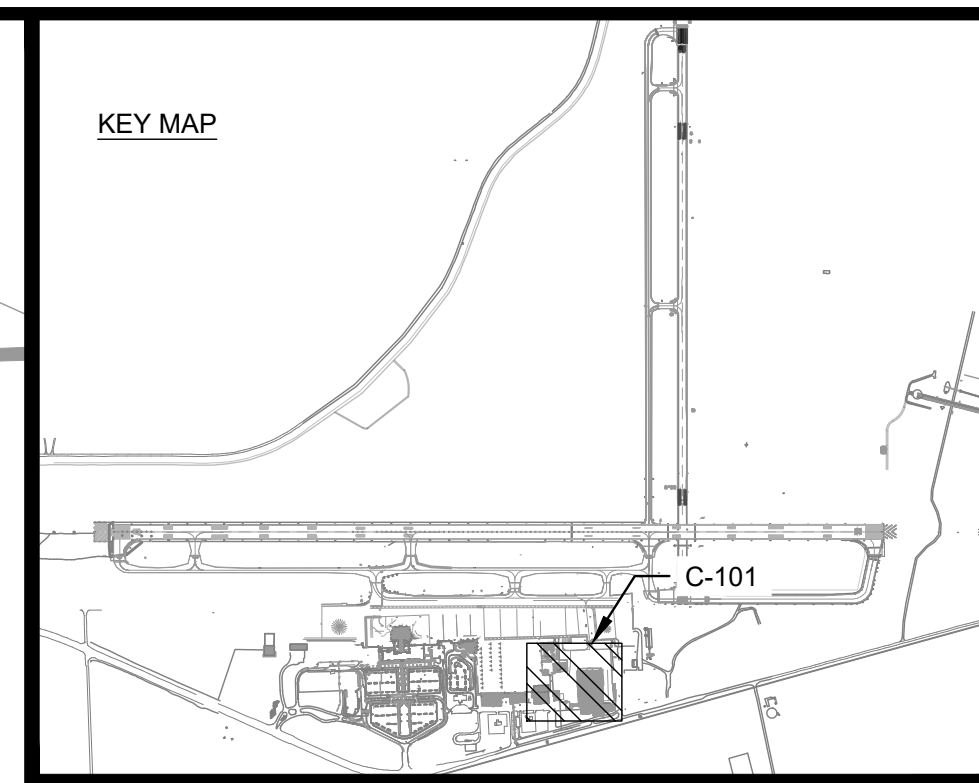
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NOTES:

1. ALL SPOT ELEVATIONS SHOWN ON ASPHALT PAVEMENT ARE LOCATED AT THE INTERSECTION OF A 25'X25' GRID AT THE TOP OF THE PAVEMENT. GRID BASED ON THE BASELINE FOR THE TAXILANE OR AS OTHERWISE SHOWN. SEE SURVEY CONTROL SHEET FOR TAXILANE ALIGNMENT INFORMATION.
2. ADJUST (E) RIM STRUCTURE TO GRADE.
3. SEE STORM DRAIN PLAN AND PROFILE SHEETS FOR STORM DRAIN DESIGN.
4. CONTOURS REPRESENT ULTIMATE GRADING.
5. ELEVATION WHERE NEW PAVEMENT TIES TO (E) SLAB MAY VARY. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ELEVATION AND FOR ADJUSTING ASPHALT PAVEMENT TO BE FLUSH WITH (E) PAVEMENT.
6. SEE PROJECT GEOMETRICS SHEET FOR ADDITIONAL GEOMETRIC INFORMATION AND PAVEMENT SECTIONS.



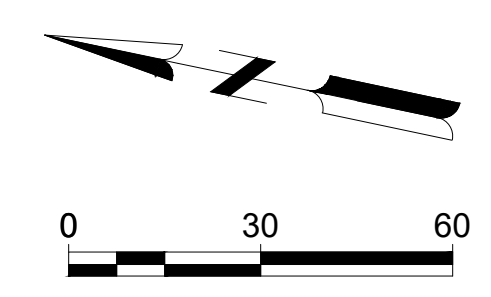
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① WA 1A (BASE BID)



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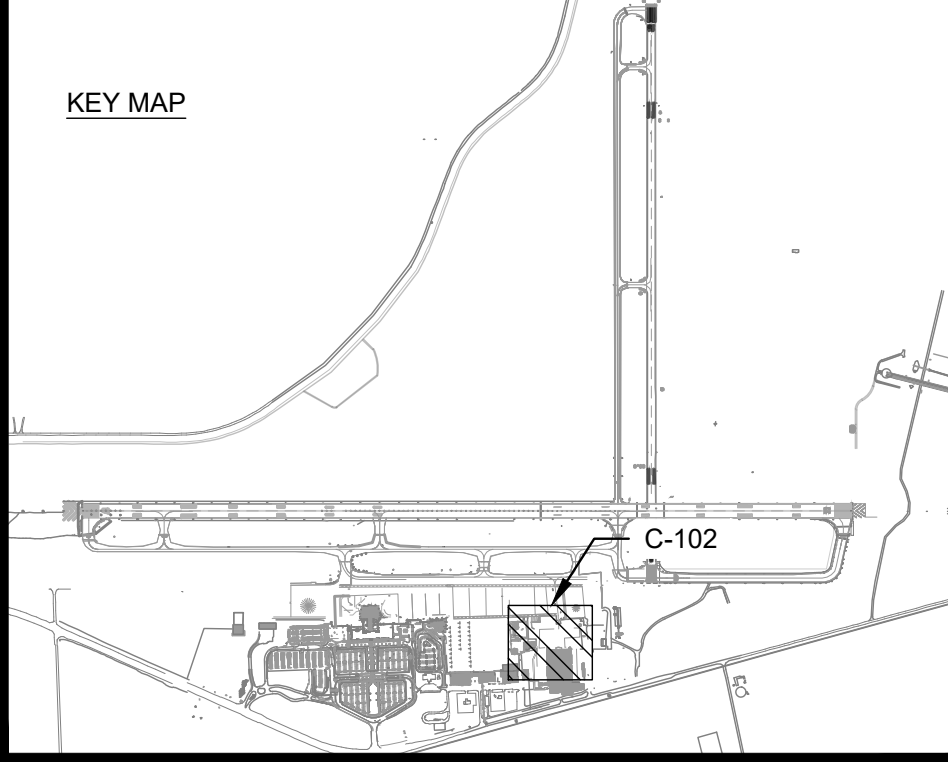
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SHEET CONTENTS
 GRADING PLANS -
 BASE BID

SHEET NO.

C-101

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NOTES:

1. ALL SPOT ELEVATIONS SHOWN ON ASPHALT PAVEMENT ARE LOCATED AT THE INTERSECTION OF A 25'X25' GRID AT THE TOP OF THE PAVEMENT. GRID BASED ON THE BASELINE FOR THE TAXILANE OR AS OTHERWISE SHOWN. SEE SURVEY CONTROL SHEET FOR TAXILANE ALIGNMENT INFORMATION.
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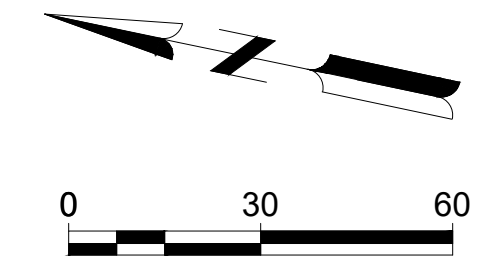
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SHEET CONTENTS
GRADING PLANS -
BASE BID

SHEET NO.

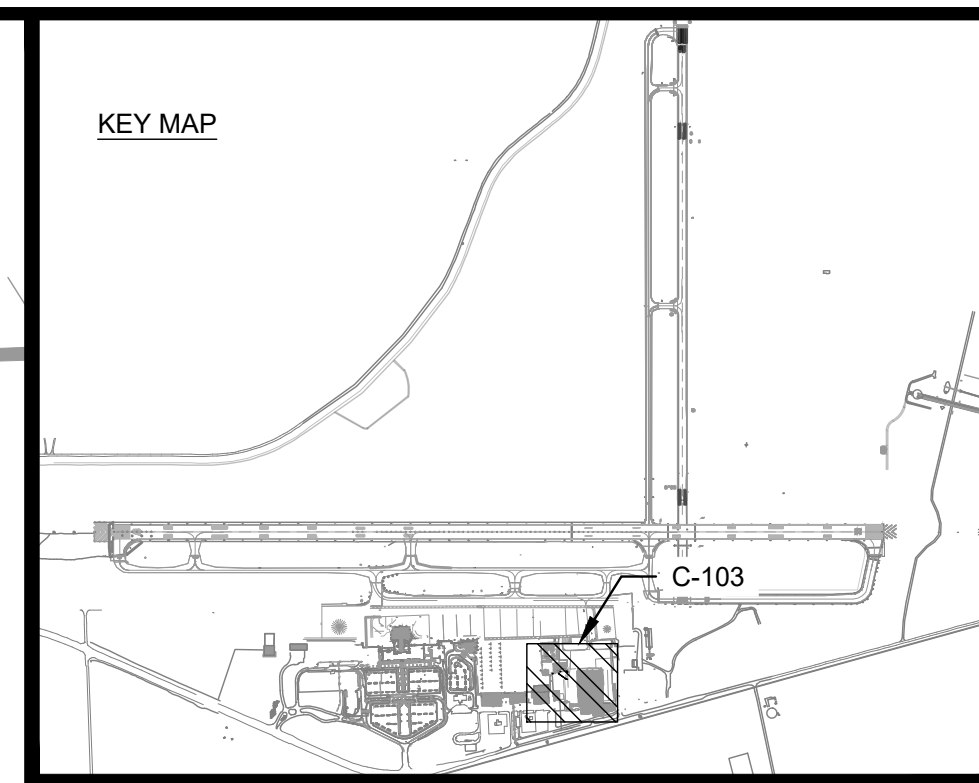
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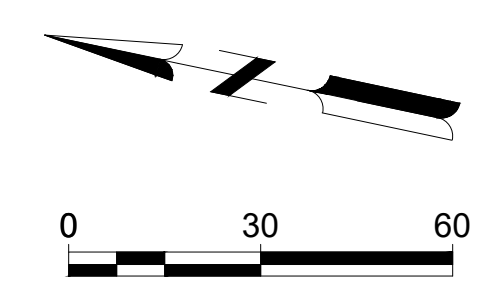
2 WA 1B-1C (BASE BID)

NOTES:

1. ALL SPOT ELEVATIONS SHOWN ON ASPHALT PAVEMENT ARE LOCATED AT THE INTERSECTION OF A 25'X25' GRID AT THE TOP OF THE PAVEMENT. GRID BASED ON THE BASELINE FOR THE TAXILANE OR AS OTHERWISE SHOWN. SEE SURVEY CONTROL SHEET FOR TAXILANE ALIGNMENT INFORMATION.
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① WA 2A-2B (BID ALT 1)



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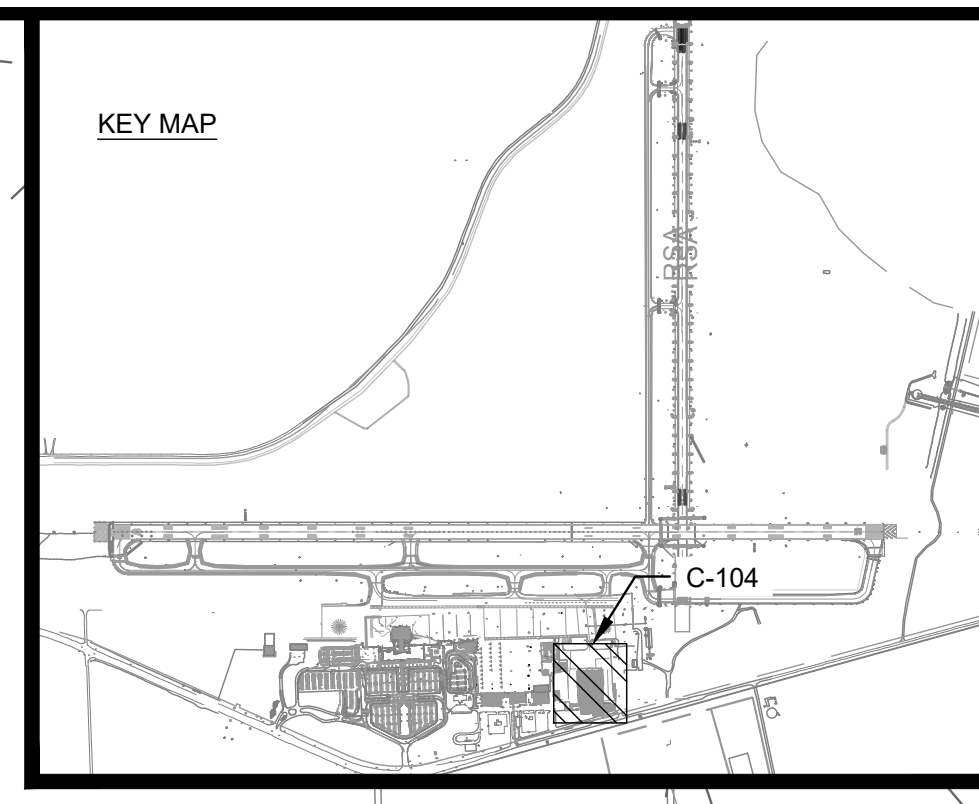
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SHEET CONTENTS
 GRADING PLANS - BID
 ALT 1

SHEET NO.

C-103

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- NOTES:**
1. ALL SPOT ELEVATIONS SHOWN ON ASPHALT PAVEMENT ARE LOCATED AT THE INTERSECTION OF A 25'X25' GRID AT THE TOP OF THE PAVEMENT. GRID BASED ON THE BASELINE FOR THE TAXILANE OR AS OTHERWISE SHOWN. SEE SURVEY CONTROL SHEET FOR TAXILANE ALIGNMENT INFORMATION.
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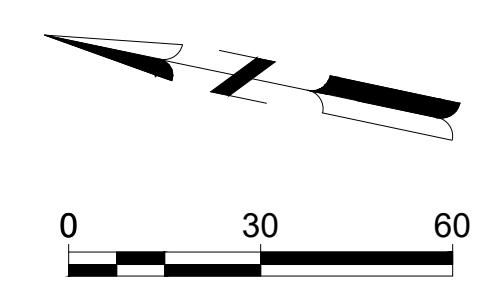
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SHEET CONTENTS
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 ALT 2

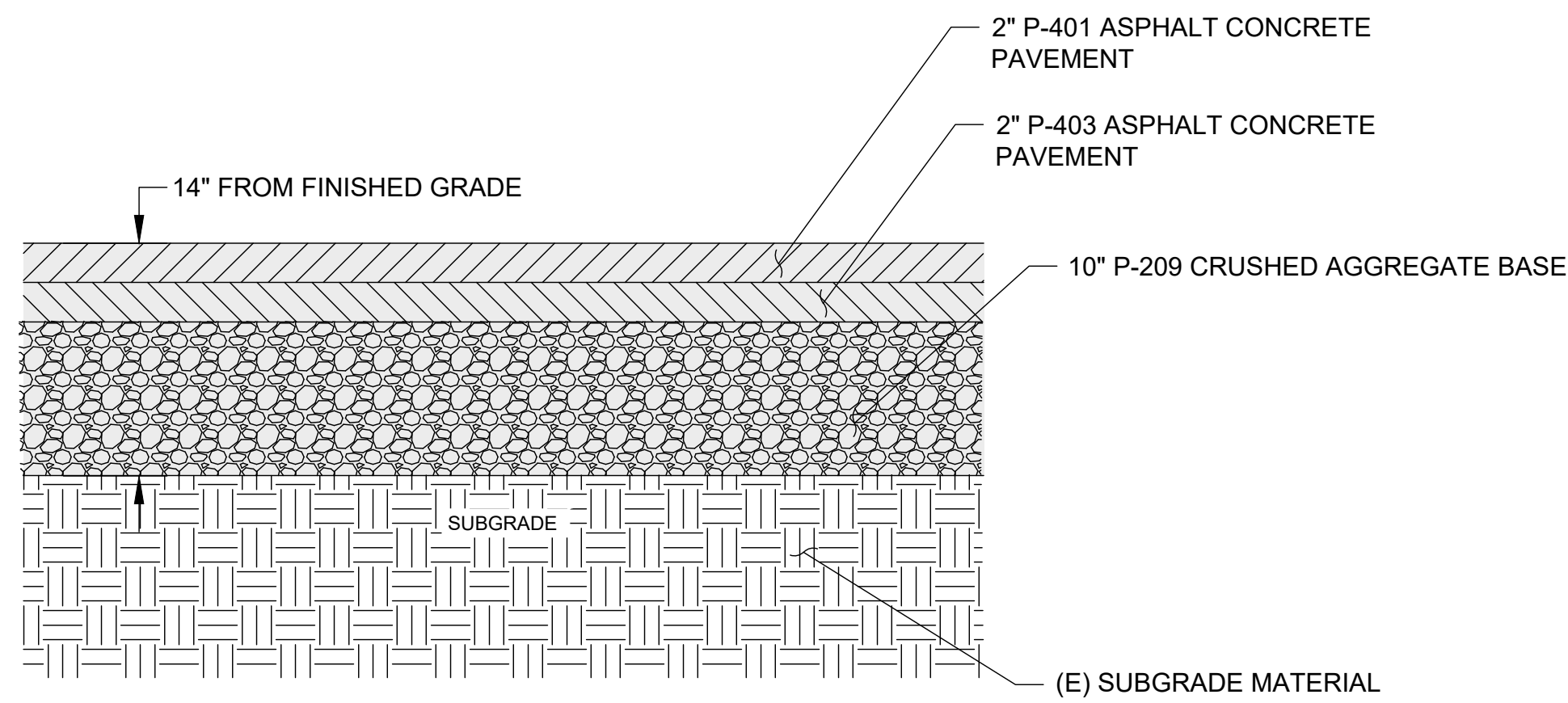
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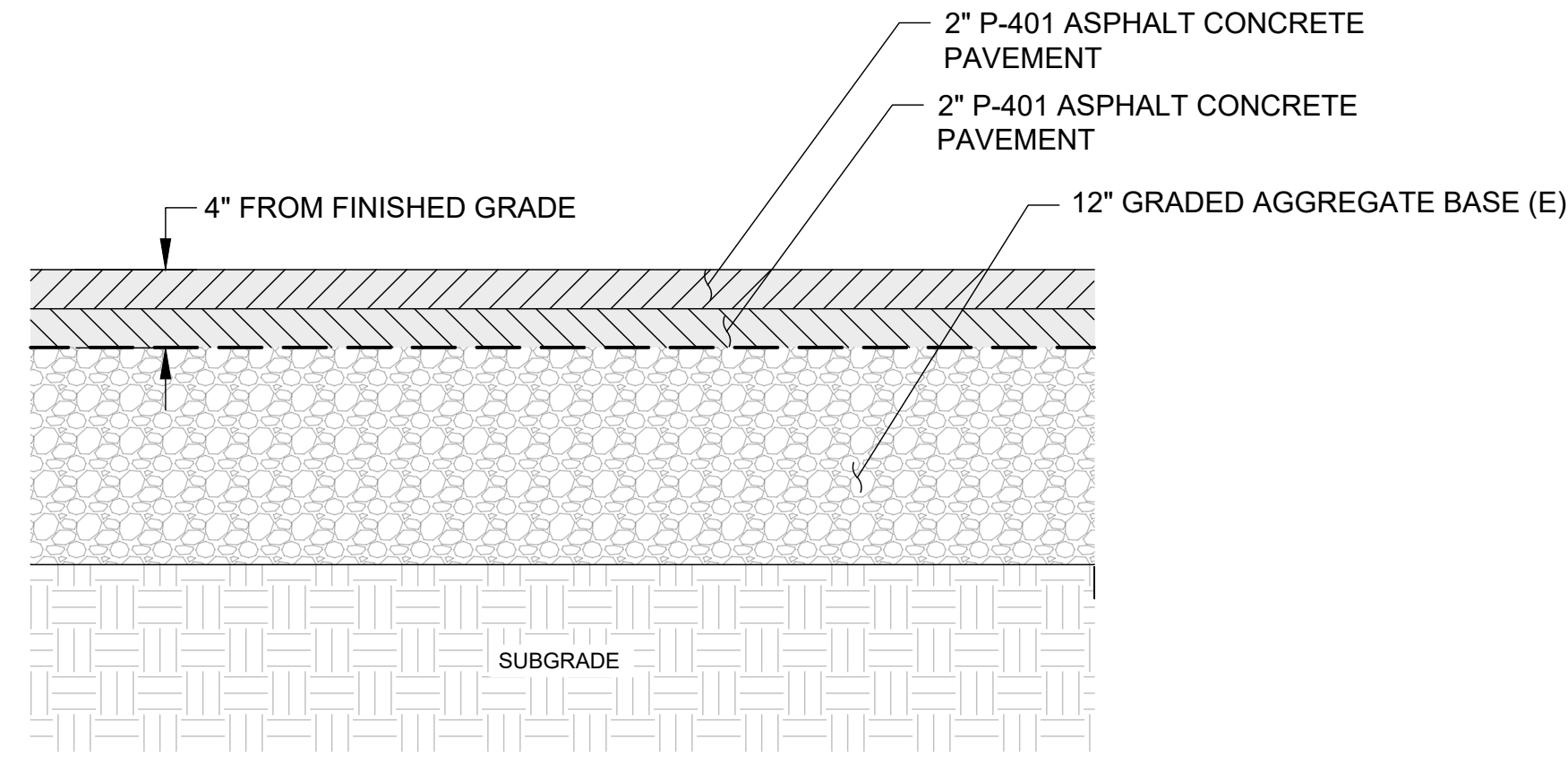


3 WA 3A-3B (BID ALT 2)

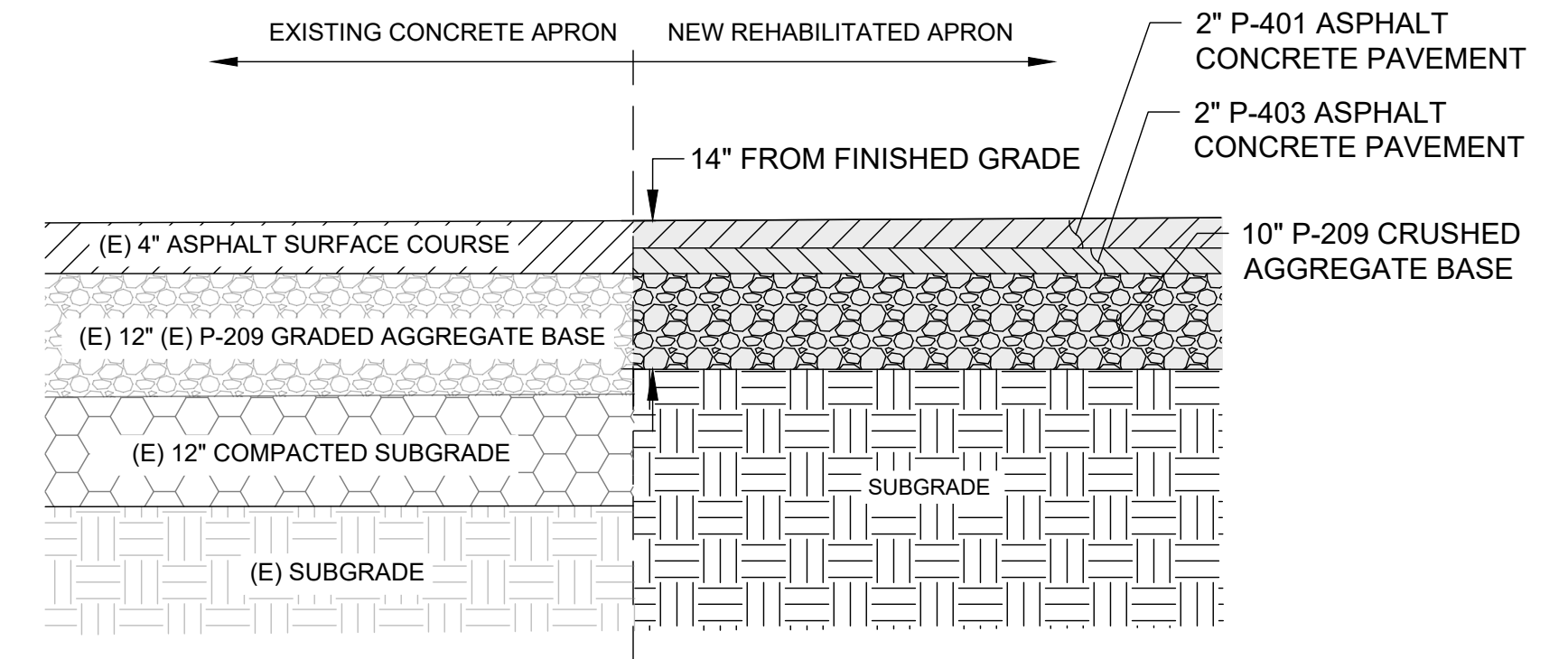
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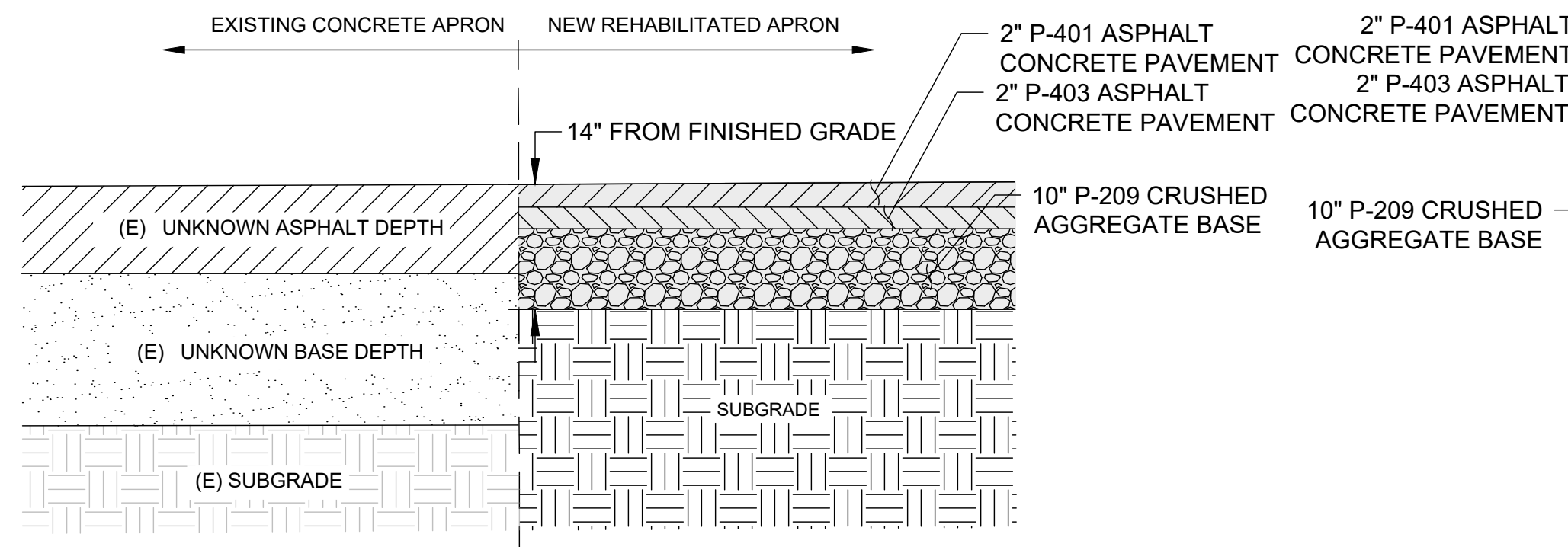
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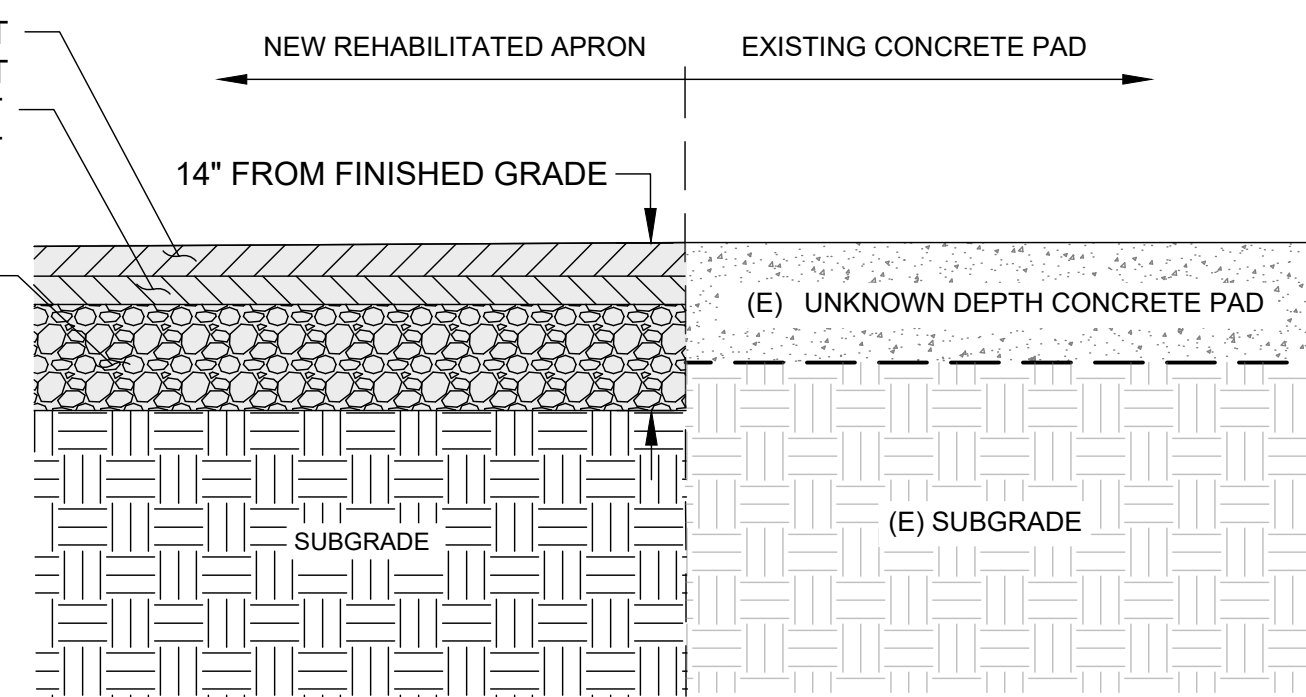
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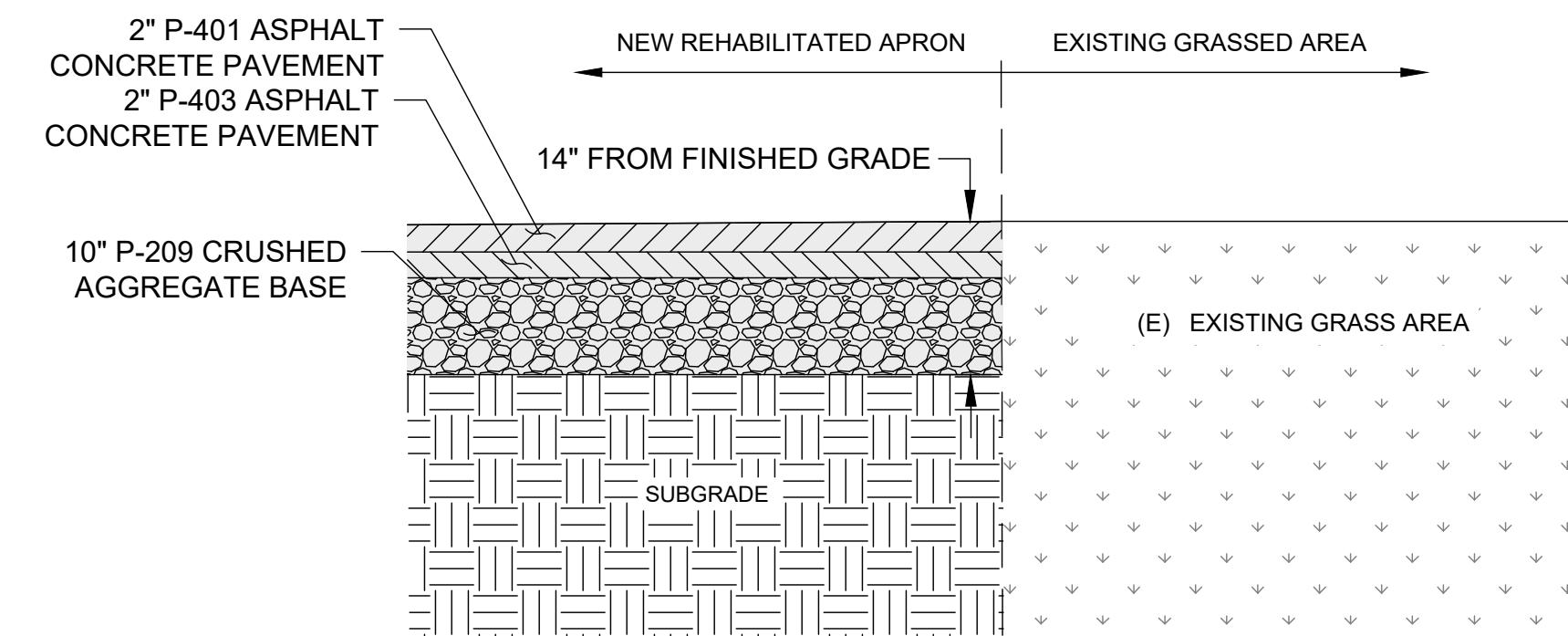
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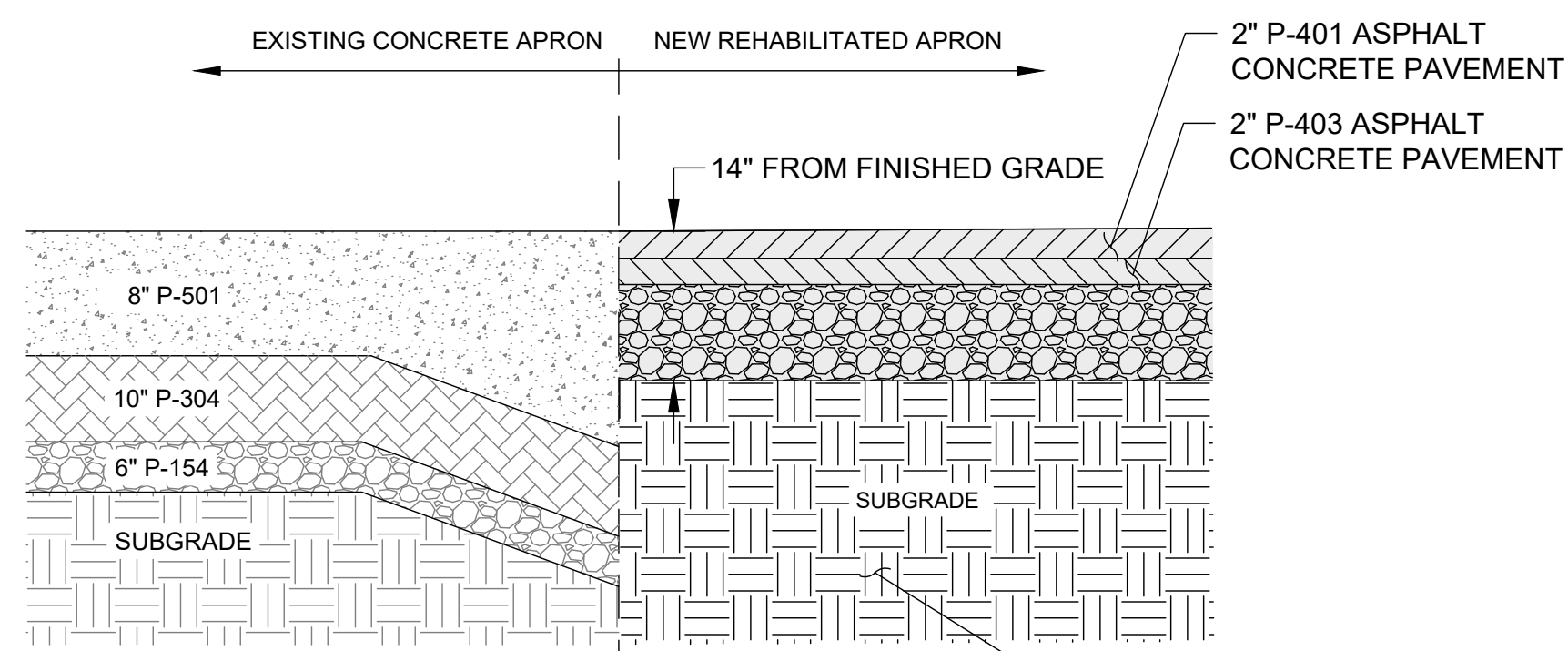
4 TRANSITION SECTION
NOT TO SCALE



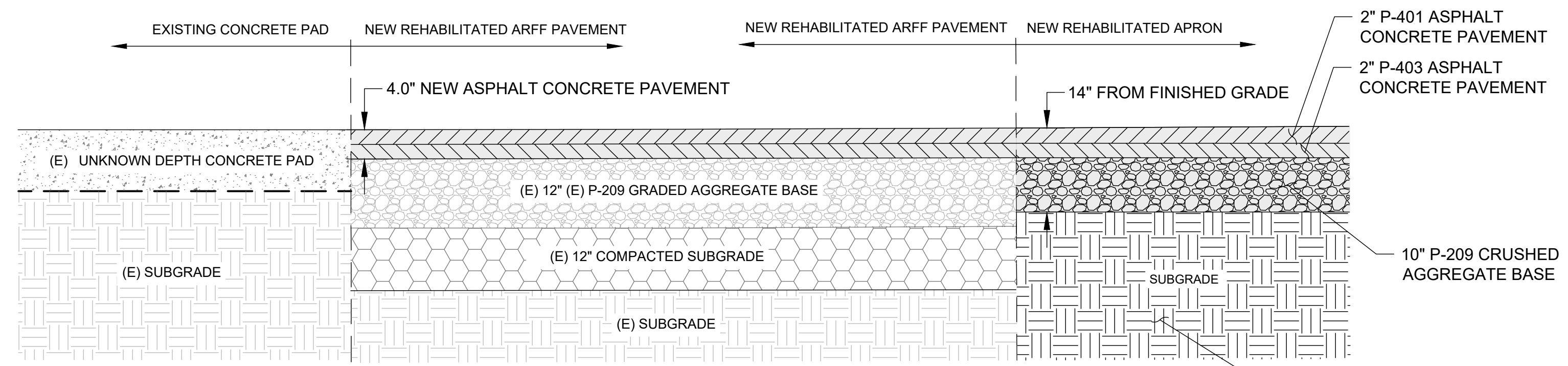
5 TRANSITION SECTION
NOT TO SCALE



6 TRANSITION SECTION
NOT TO SCALE



7 TRANSITION SECTION
NOT TO SCALE



8 TRANSITION SECTION
NOT TO SCALE

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**AUGUSTA REGIONAL AIRPORT
REHABILITATION OF STANDARD
AERO RAMP**
1501 AVIATION WAY
AUGUSTA, GA 30906-9620

ISSUED
ISSUED FOR BID

NOT FOR CONSTRUCTION

CARES: 3-13-0011-045-2020
M&H NO: 0119700-202062.01
DATE: APRIL 22, 2022
DESIGNED BY: EJS
DRAWN BY: NJH
CHECKED BY: DES
DO NOT SCALE DRAWINGS

SHEET CONTENTS
TYPICAL SECTIONS

SHEET NO.

C-301


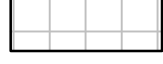

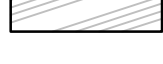
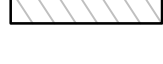

AUD WATER NOTES:

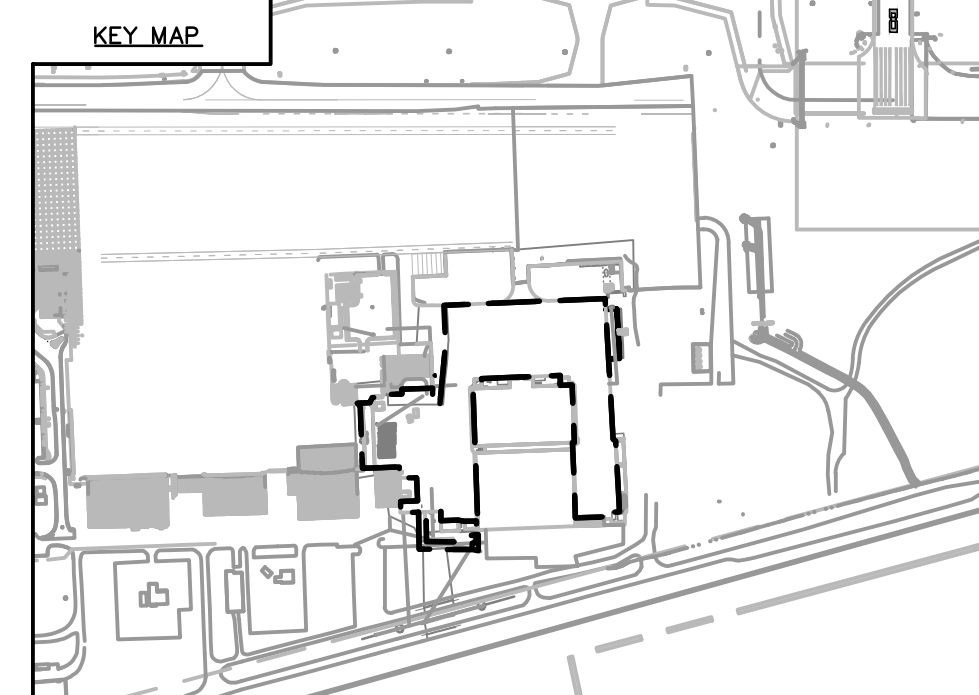
- AN AUD INSPECTOR SHALL BE PRESENT OR SECTION LEFT UNCOVERED UNTIL INSPECTED BY THE INSPECTOR WHEN A TAP, TIE-IN OCCURS, RESTRAINED JOINTS ARE INSTALLED, BENDS, FITTINGS, FIRE HYDRANTS, VALVES AND PRESSURE TESTING. CONTRACTOR IS TO PROVIDE AT LEAST 48 HOUR NOTICE (TWO WORKING DAYS) IN ADVANCE DURING REGULAR WORKING HOURS (8:30 AM TO 5:00 PM, MONDAY-FRIDAY, EXCLUDING AUGUSTA, GEORGIA HOLIDAYS).
- ALL PVC WATER LINES SHALL BE A MINIMUM DR-18 PVC MEETING AWWA C-900 AND/OR C-905, UNLESS OTHERWISE SHOWN OR SPECIFIED.
- ALL DIP WATER LINES SHALL BE CLASS 350 FOR LINES 16" DIAMETER AND SMALLER, AND CLASS 300 FOR LINES 18" DIAMETER THROUGH 24" DIAMETER, UNLESS OTHERWISE SPECIFIED OR SHOWN.
- ALL NEW WATER LINES SHALL BE INSTALLED PER PIPELINE MANUFACTURER RECOMMENDATIONS.
- ALL WATER LINES SHALL BE TESTED, CHLORINATED, AND CHECKED FOR BACTERIA PER AUD'S WATER & SANITARY SEWER SYSTEMS-DESIGN STANDARDS, CONSTRUCTION SPECIFICATIONS AND DETAILS.
- COPPER WIRE (1/2-GAUGE, INSULATED, SINGLE STRAND) SHALL BE ATTACHED ALONG TOP OF ALL BURIED WATER LINES, WRAPPED AROUND SERVICE CORPORATIONS AND BROUGHT UP ON THE OUTSIDE OF ALL VALVE BOXES, STUBBING OUT AT THE TOP TO FACILITATE TRACEABILITY. THIS WIRE SHALL BE PROPERLY SPLICED WITH A WATER PROOF CONNECTOR FOR ELECTRICAL CONNECTIVITY, AND THEN INSULATED TO PROTECT AGAINST CORROSION. (REFERENCE AUD DETAILS WHEN APPLICABLE).
- DETECTOR TAPE SHALL BE 4 INCHES WIDE AND PLACED 2 FEET ABOVE PIPE. ADD SIMILAR DEVICE TO CONDUIT PER AUD DETAIL 4.3.
- ALL WATER VALVES ON THE MAIN LINES, INCLUDING HYDRANT LATERALS, SHALL BE OPEN-LEFT IF INSTALLED SOUTH OF GORDON HIGHWAY (S.R. 10), OR OPEN-RIGHT IF INSTALLED NORTH OF GORDON HIGHWAY.
- THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN A METER BOX AT THE TERMINATION POINT OF ALL WATER SERVICES. METER BOXES WILL IN NO WAY BE PLACED UNDER DRIVEWAYS. METER BOXES WILL PREFERABLY BE LOCATED IN THE CENTER OF THE LOT AND WITHIN 1' INSIDE OF THE R/W, AND MAINTAINED BY THE CONTRACTOR UNTIL SUCH TIME THE METER IS INSTALLED.
- WATER SERVICES SHALL HAVE MINIMUM DIAMETER OF 1 INCH (REFERENCE AUD DETAILS WHEN APPLICABLE).
- ANY EXISTING WATER SERVICE LINES WHICH ARE EXTENSIONS OFF AN EXISTING WATER MAIN TO BE ABANDONED DISCOVERED DURING CONSTRUCTION SHALL BE REPLACED. THESE NEW SERVICE LINES ARE TO BE TIED INTO THE NEW WATER MAIN AND BE RECONNECTED TO THE EXISTING WATER METER.
- ALL EXISTING WATER SERVICES SHALL BE EXTENDED AND METER BOXES RELOCATED AS REQUIRED BEYOND THE LIMITS OF CONSTRUCTION. THE SERVICES SHALL BE CONNECTED TO THE NEW WATER MAIN AFTER SAID MAIN HAS BEEN STERILIZED, PRESSURE TESTED AND PUT INTO SERVICE. IN THE EVENT THAT THE SERVICE LINE IS NOT ACTIVE, A NEW WATER SERVICE WILL BE REQUIRED TO BE CONSTRUCTED.
- ALL WATER METERS SHALL BE PURCHASED FROM AUD CONSTRUCTION AND MAINTENANCE DIVISION.
- THE DEVELOPER/CONTRACTOR SHALL LOCATE WATER SERVICES AND VALVES BY ETCHING A "W" FOR THE WATER SERVICE AND A "V" FOR A VALVE IN THE CURB OR IN THE PAVEMENT IF NO CURB IS AVAILABLE, AND HIGHLIGHT THE ETCHING WITH BLUE PAINT PER THE APWA UNIFORM COLOR CODE. IN THE EVENT THAT THE VALVE IS LOCATED BEHIND THE CURB OR PAVEMENT, INVERT THE "V" MARKING SO THAT IT POINTS TO THE VALVE OUTSIDE THE ROADWAY.
- FIRE HYDRANTS ARE TO BE LOCATED A MINIMUM OF ONE FOOT INSIDE EXISTING RIGHT-OF-WAY WITH A 3 FOOT RADIUS CLEARANCE.
- EXISTING FIRE HYDRANTS AND METERS THAT ARE REMOVED SHALL BE TURNED OVER TO AUD.
- PER AUD'S WATER & SANITARY SEWER SYSTEMS-DESIGN STANDARDS, CONSTRUCTION SPECIFICATIONS AND DETAILS:
 - FOR BACKFLOW INSTALLATIONS FOR NON-RESIDENTIAL DEVELOPMENT, A MINIMUM "DOUBLE-CHECK" BACKFLOW-PREVENTION DEVICE SHALL BE INSTALLED ON THE CUSTOMER'S SIDE OF ALL SERVICES.
 - FIRE LINES REQUIRE A MINIMUM "DOUBLE DETECTOR" BACKFLOW DEVICE.
 - FOR BACKFLOW INSTALLATIONS FOR RESIDENTIAL DEVELOPMENTS, A "DUAL CHECK" BACKFLOW DEVICE SHALL BE INSTALLED ON THE CUSTOMER'S SIDE OF THE SERVICE LINE AT THE POINT OF TIE-IN TO THE WATER METER.
 - FOR SOME MEDIUM HAZARD TO HIGH HAZARD LOCATIONS, A REDUCED PRESSURE ZONE (RPZ) BACKFLOW DEVICE WILL BE REQUIRED.
- BACKFLOW DEVICES SHALL BE TESTED BY A CERTIFIED PERSON WITHIN FIVE (5) WORKING DAYS OF INSTALLATION AND THE RESULTS FURNISHED TO THE AUD BACK FLOW INSPECTOR WITHIN 10 WORKING DAYS OF INSTALLATION PRIOR TO ANY WATER USE. AUD SHALL BE NOTIFIED PRIOR TO TESTING CONTACT THE AUGUSTA UTILITIES BACK FLOW INSPECTOR AT 706-722-1639.

AUD SEWER NOTES:

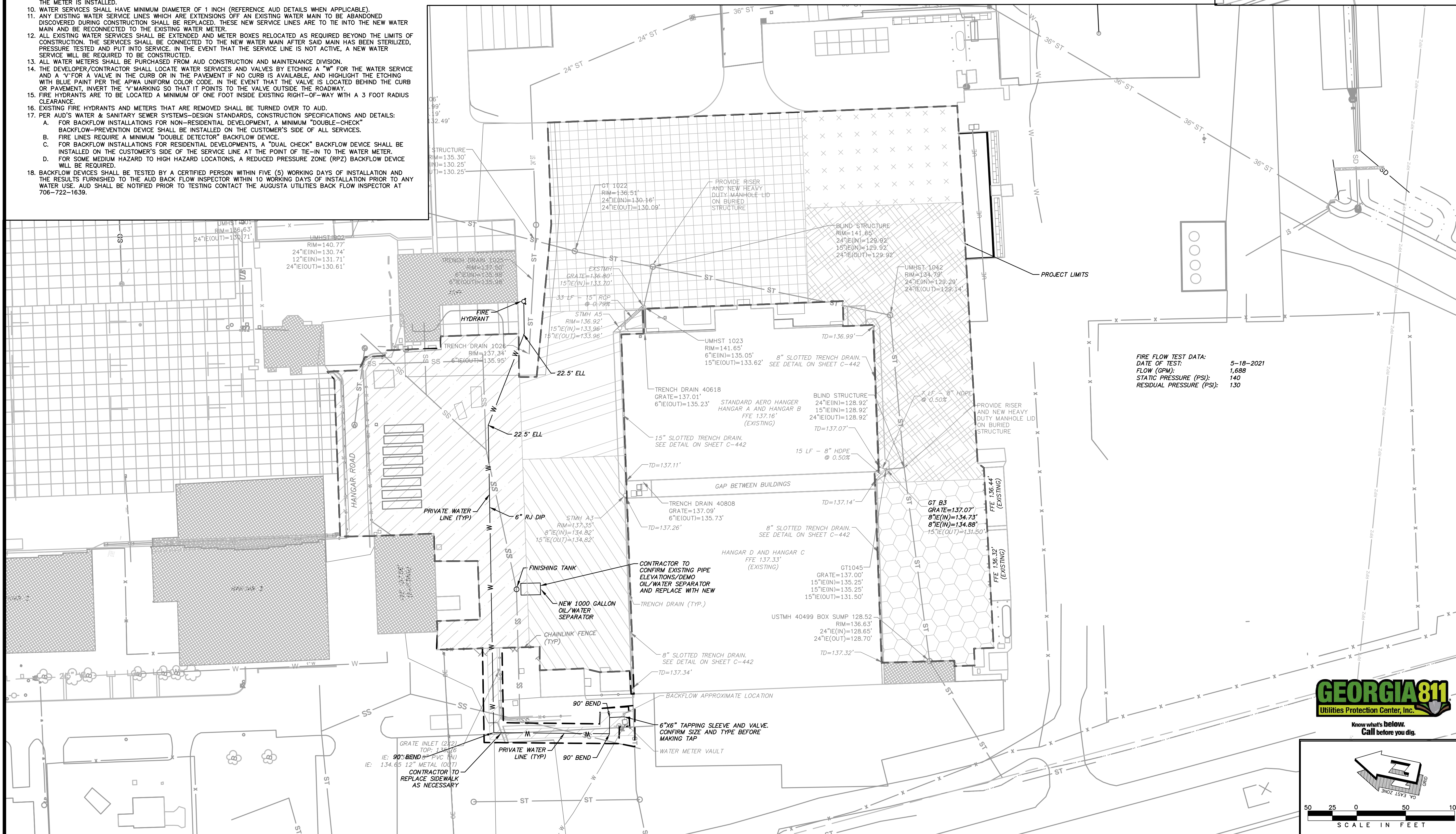
- AN AUD INSPECTOR SHALL BE PRESENT OR SECTION LEFT UNCOVERED UNTIL INSPECTED BY THE INSPECTOR WHEN A CORE, TAP, TIE-IN OCCURS, MANHOLE INSTALLED, AND ALL REQUIRED TESTING. CONTRACTOR IS TO PROVIDE AT LEAST 48 HOUR NOTICE (TWO WORKING DAYS) IN ADVANCE DURING REGULAR WORKING HOURS (8:30 AM TO 5:00 PM, MONDAY-FRIDAY, EXCLUDING AUGUSTA, GEORGIA HOLIDAYS).
- THE CONTRACTOR IS TO VERIFY THE INVERT ELEVATIONS (I.E.) OF EXISTING PIPES PRIOR TO BEGINNING CONSTRUCTION.
- SEWER FORCE MAIN SHALL BE PVC DR-18 C-900 OR C-905 AS APPLICABLE OR DIP CLASS 350, EPOXY LINED.
- ALL NEW SEWER LINES SHALL BE INSTALLED PER PIPELINE MANUFACTURER REQUIREMENTS.
- COPPER WIRE (1/2-GAUGE, INSULATED, SINGLE STRAND) SHALL BE ATTACHED ALONG TOP OF ALL BURIED SEWER LINES TO FACILITATE TRACEABILITY. THE WIRE SHALL RUN ALONG THE TOP OF THE MAIN AND ALONG INDIVIDUAL SERVICE LINES AND BROUGHT UP ON THE OUTSIDE OF ALL MANHOLES, CLEANOUTS, OR OTHER ABOVE GROUND FEATURES STUBBING OUT AT THE TOP FOR LOCATING PURPOSES. THIS WIRE SHALL BE PROPERLY SPLICED WITH A WATER PROOF CONNECTOR FOR ELECTRICAL CONNECTIVITY, AND THEN INSULATED TO PROTECT AGAINST CORROSION. (REFERENCE AUD DETAILS WHEN APPLICABLE).
- DETECTOR TAPE SHALL BE 4 INCHES WIDE AND PLACED 2 FEET ABOVE PIPE ADD SIMILAR DEVICE TO CONDUIT PER AUD DETAIL 4.3.
- ALL TIE-INS TO EXISTING MANHOLES SHALL BE CORED UNLESS OTHERWISE APPROVED BY AUD INSPECTOR.
- ALL MANHOLES REQUIRE "K OR N SEAL" OR EQUAL, RUBBER BOOTS, UNLESS OTHERWISE APPROVED BY AUD INSPECTOR.
- NO CONNECTION SHALL BE MADE TO EXISTING WASTEWATER LINES UNTIL THE PROPOSED LINE IS INSPECTED AND APPROVED BY AUD'S ENGINEERING DIVISION.
- ALL WASTEWATER MANHOLES SHALL HAVE AN ELEVATION DROP OF 0.2 FOOT ACROSS THE INLET AND OUTLET INVERTS.
- WASTEWATER CLEAN-OUTS SHALL BE INSTALLED AT ALL INDIVIDUAL SERVICES AS SHOWN IN AUD-DETAILS, AND SHALL NOT BE INSTALLED UNDER DRIVEWAYS OR ANY PAVED AREAS WITHOUT PRIOR APPROVAL FROM AUD.
- SERVICE LINES TO SANITARY SEWER MAIN SHALL BE BEDDED PER THESE AUD SPECIFICATIONS AND AUD DETAILS.
- MAXIMUM SANITARY SEWER INFILTRATION SHALL NOT EXCEED 100 GPD/INCH OF PIPE DIAMETER PER MILE.
- THE CONTRACTOR SHALL LOCATE SANITARY SEWER SERVICES BY ETCHING AN "S" IN THE CURB OR IN THE PAVEMENT IF NO CURB IS AVAILABLE, AND HIGHLIGHT THE ETCHING WITH GREEN PAINT PER THE APWA UNIFORM COLOR CODE.
- FINISHED FLOOR ELEVATIONS OF ALL PROPOSED BUILDINGS SHALL BE A MINIMUM OF FIVE (5) FEET ABOVE THE INVERT ELEVATION OF THE WASTEWATER MAIN OR MANHOLE AT THE POINT OF TIE-IN. IN INSTANCES WHERE THIS IS NOT POSSIBLE, A BACKWATER VALVE SHALL BE INSTALLED IN THE SEWER SERVICE.

WORK AREA PHASING LIMITS:

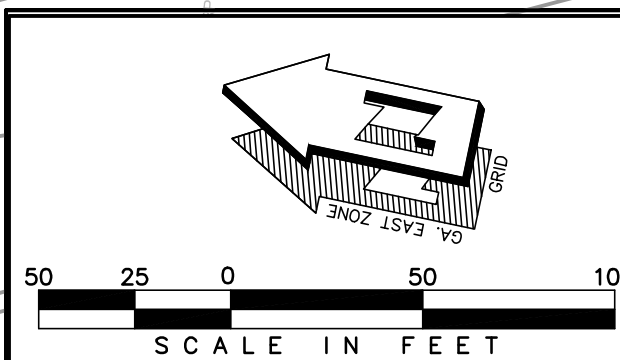
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-  WORK AREA 1B
-  WORK AREA 1C
-  WORK AREA 2A
-  WORK AREA 2B
-  WORK AREA 3A



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FIRE FLOW TEST DATA:
 DATE OF TEST: 5-18-2021
 FLOW (GPM): 1,688
 STATIC PRESSURE (PSI): 140
 RESIDUAL PRESSURE (PSI): 130



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**AUGUSTA REGIONAL AIRPORT
 REHABILITATION OF
 STANDARD AERORAMP**
 1550 HANGAR ROAD, AUGUSTA, GA 30906

ISSUED FOR BID

GEORGIA REGISTERED PROFESSIONAL ENGINEER
 MITCHELL B. MURCHISON
 4-22-2022

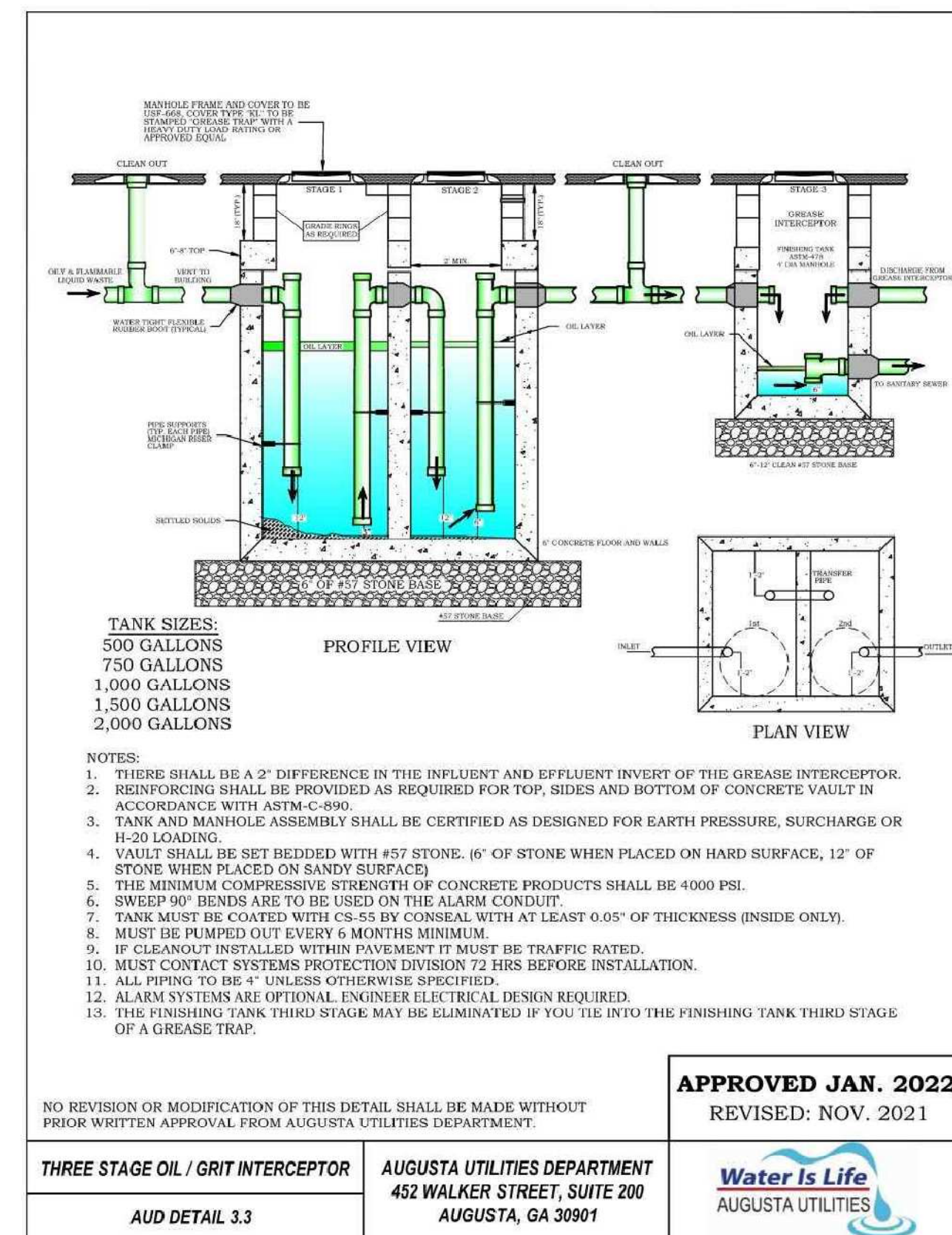
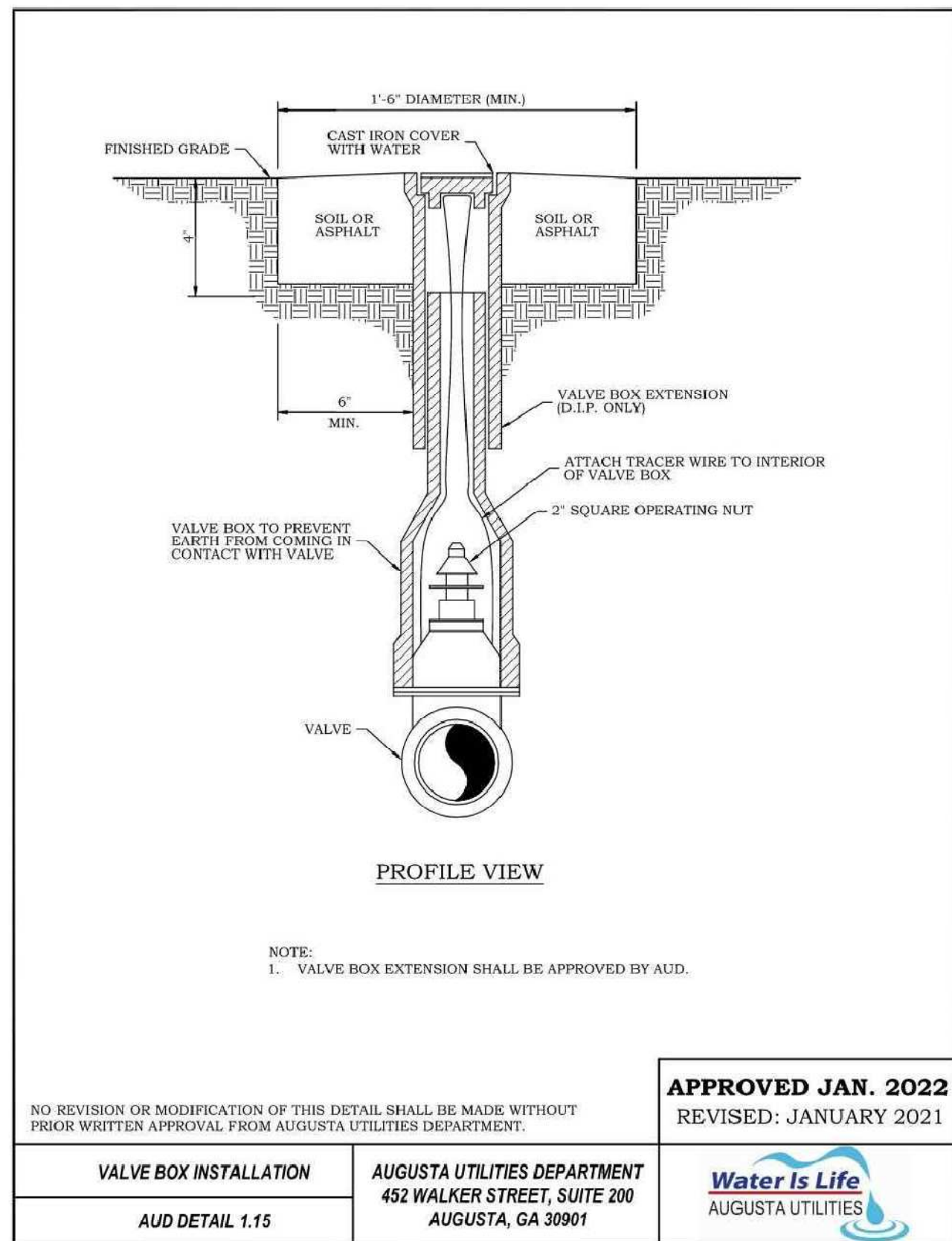
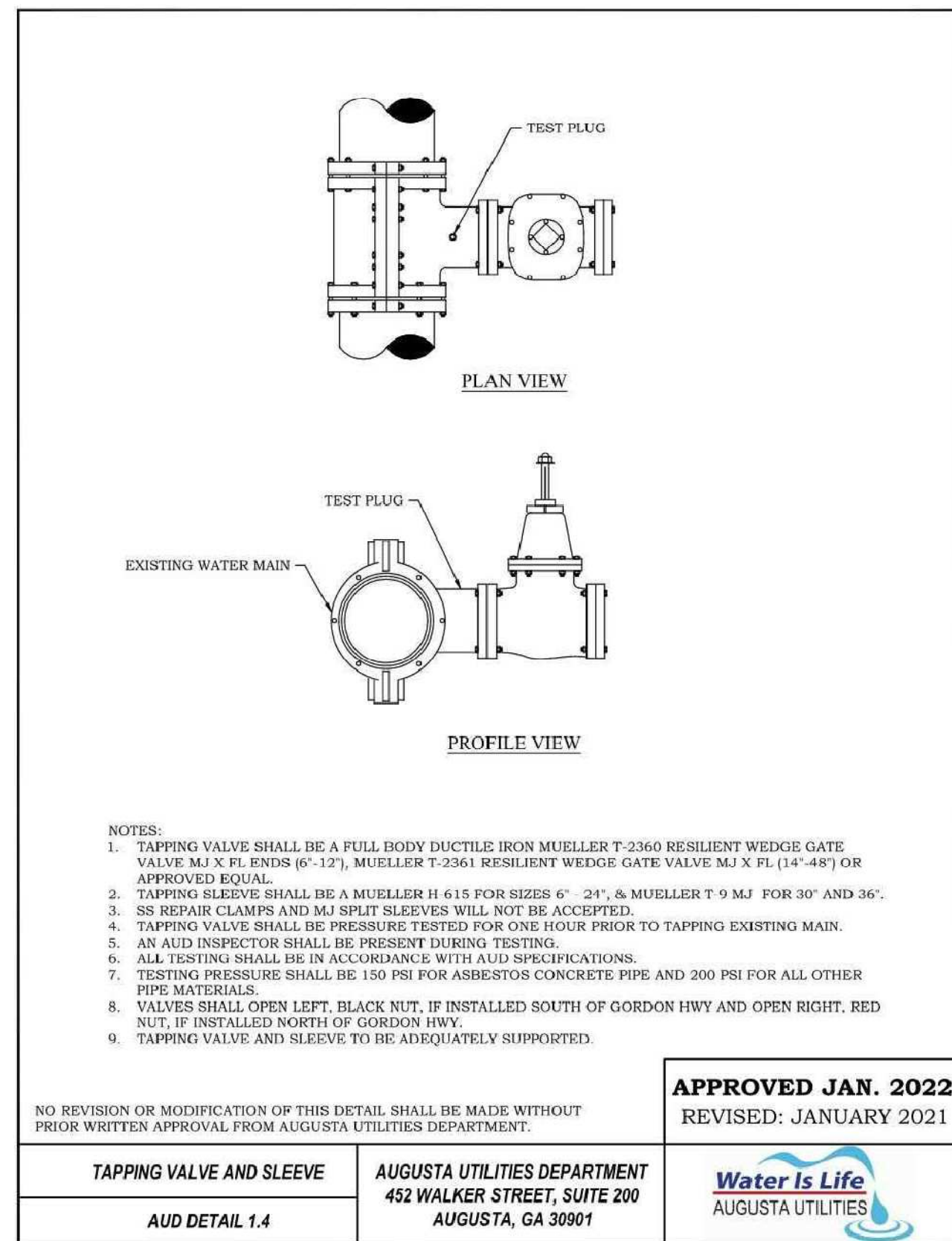
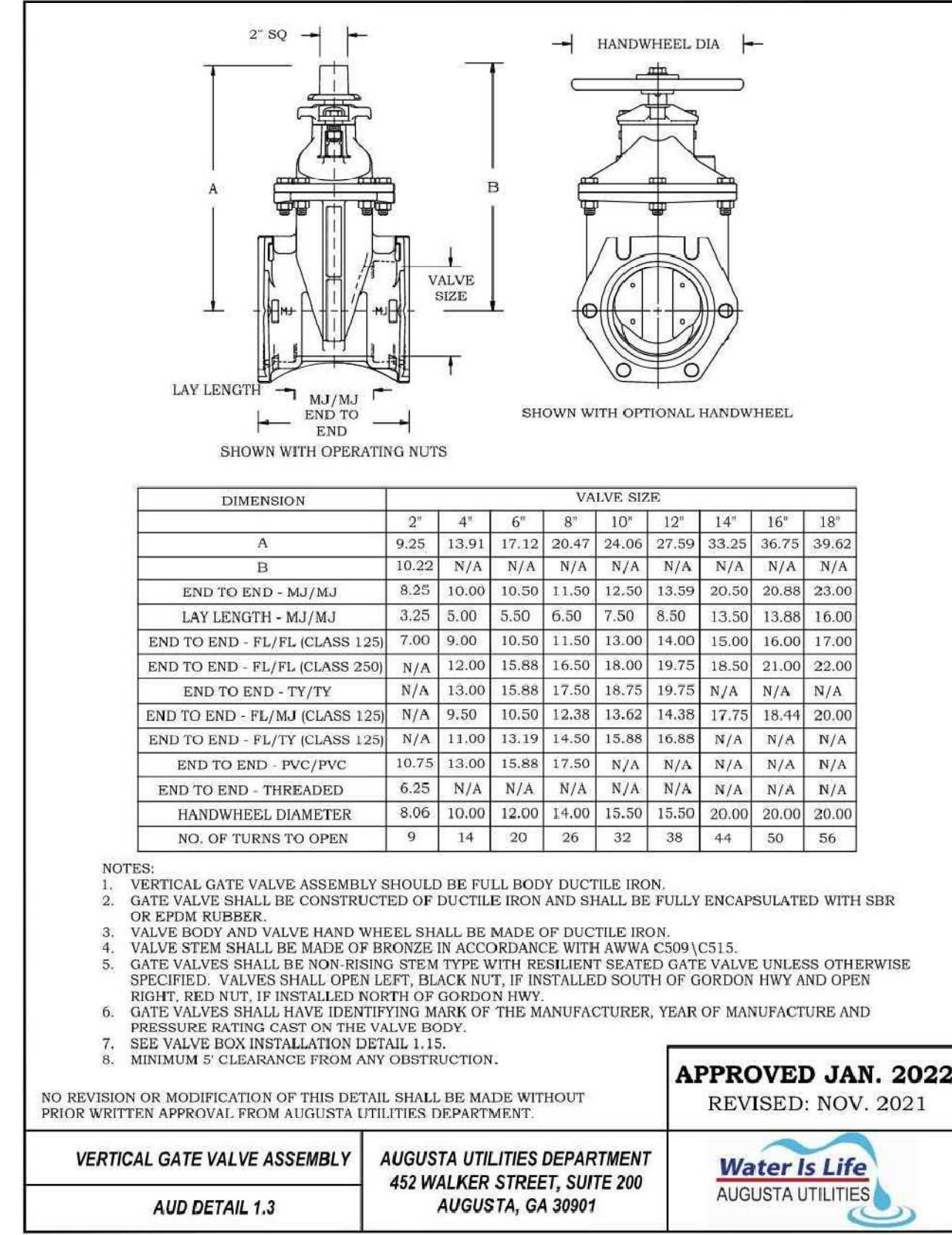
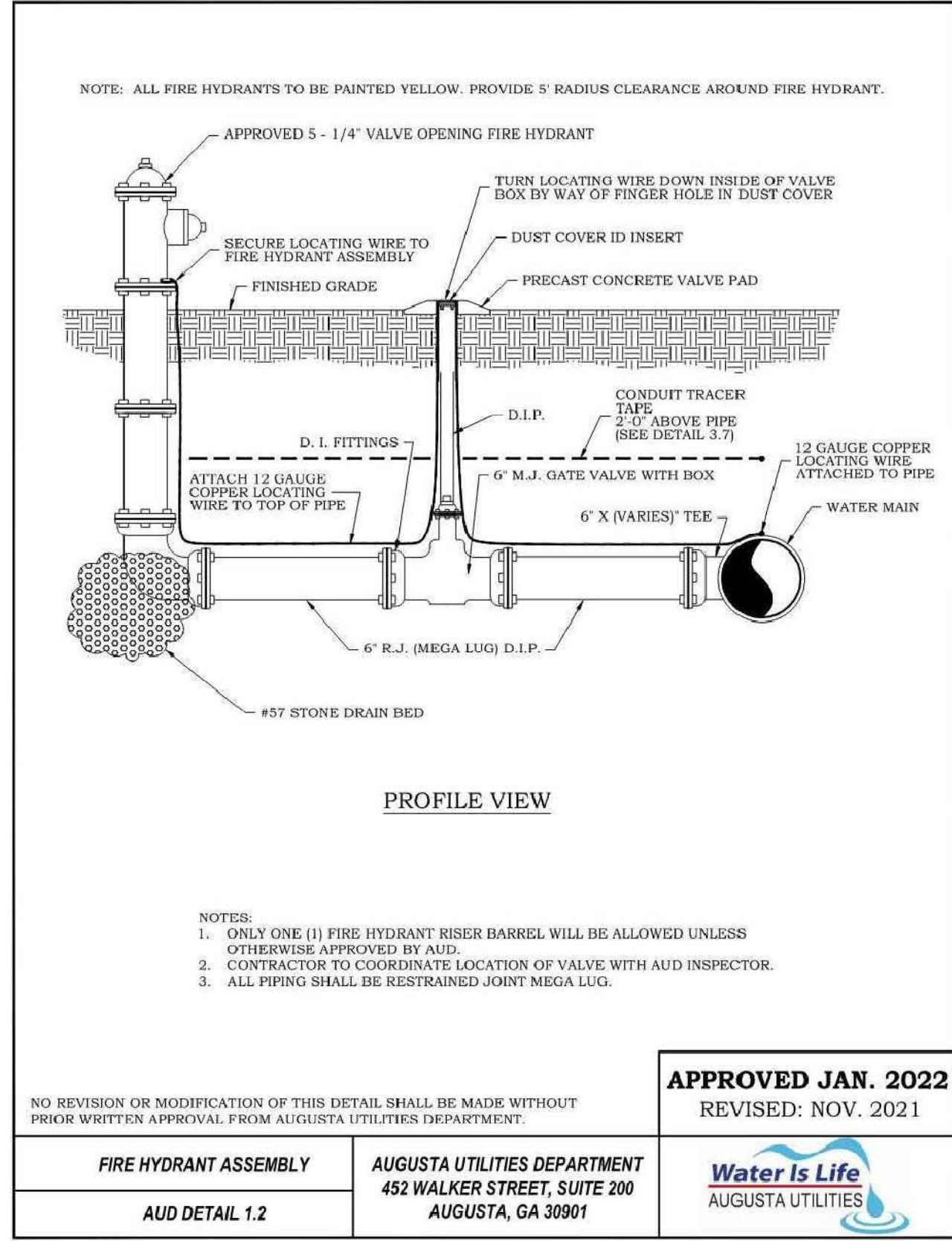
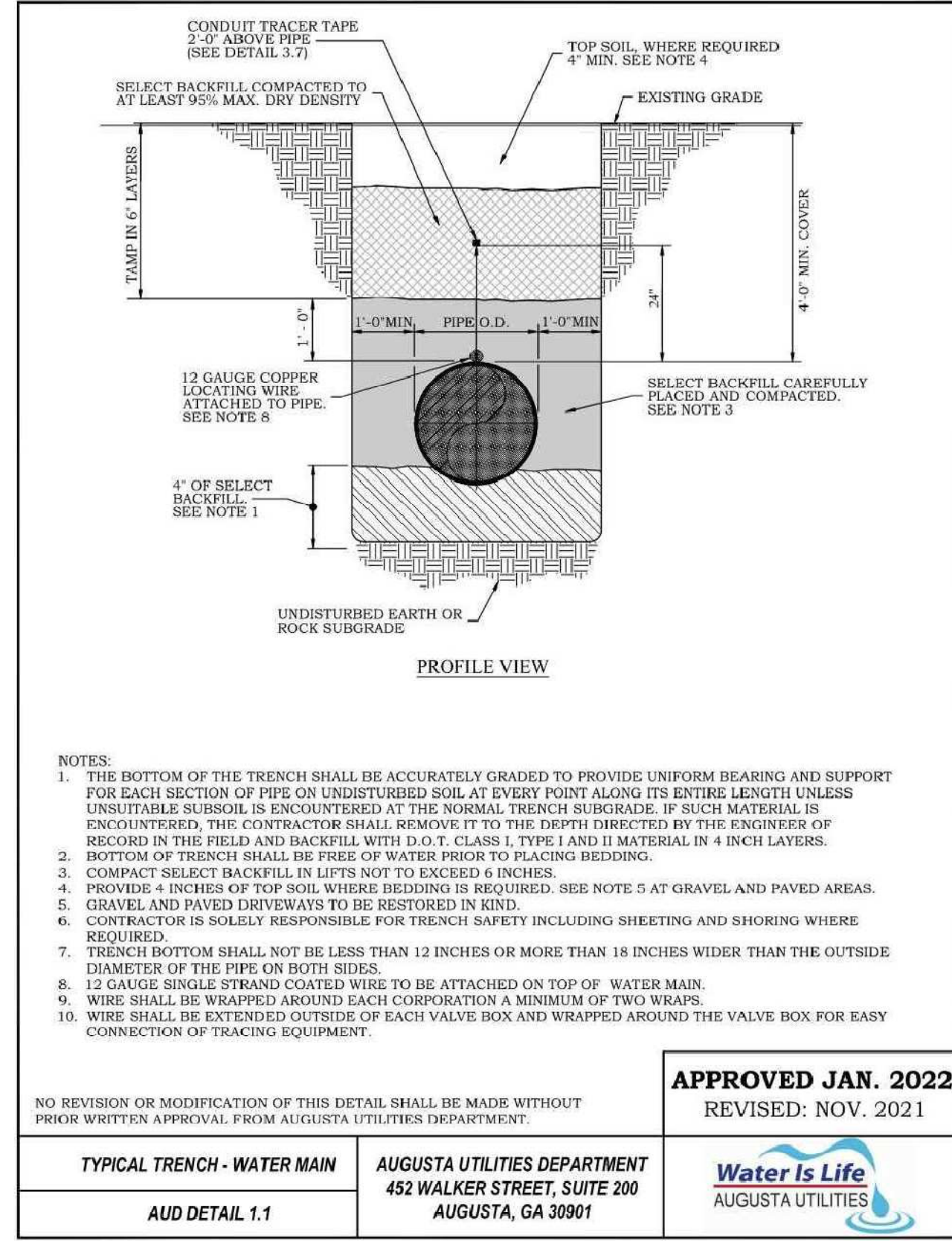
ISSUED FOR BID

CARES: 3-13-0011-045-2020
 M&H NO.: 0119700-202062.01
 DATE: APRIL 22, 2022
 DESIGNED BY: WPM
 DRAWN BY: MAB
 CHECKED BY: MBM
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SHEET CONTENTS
 WATERLINE & SANITARY SEWER PLAN

SHEET NO.: **C-401**

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AUGUSTA REGIONAL AIRPORT
REHABILITATION OF
STANDARD AERORAMP
1550 HANGAR ROAD, AUGUSTA, GA 30906

ISSUED

4-22-2022

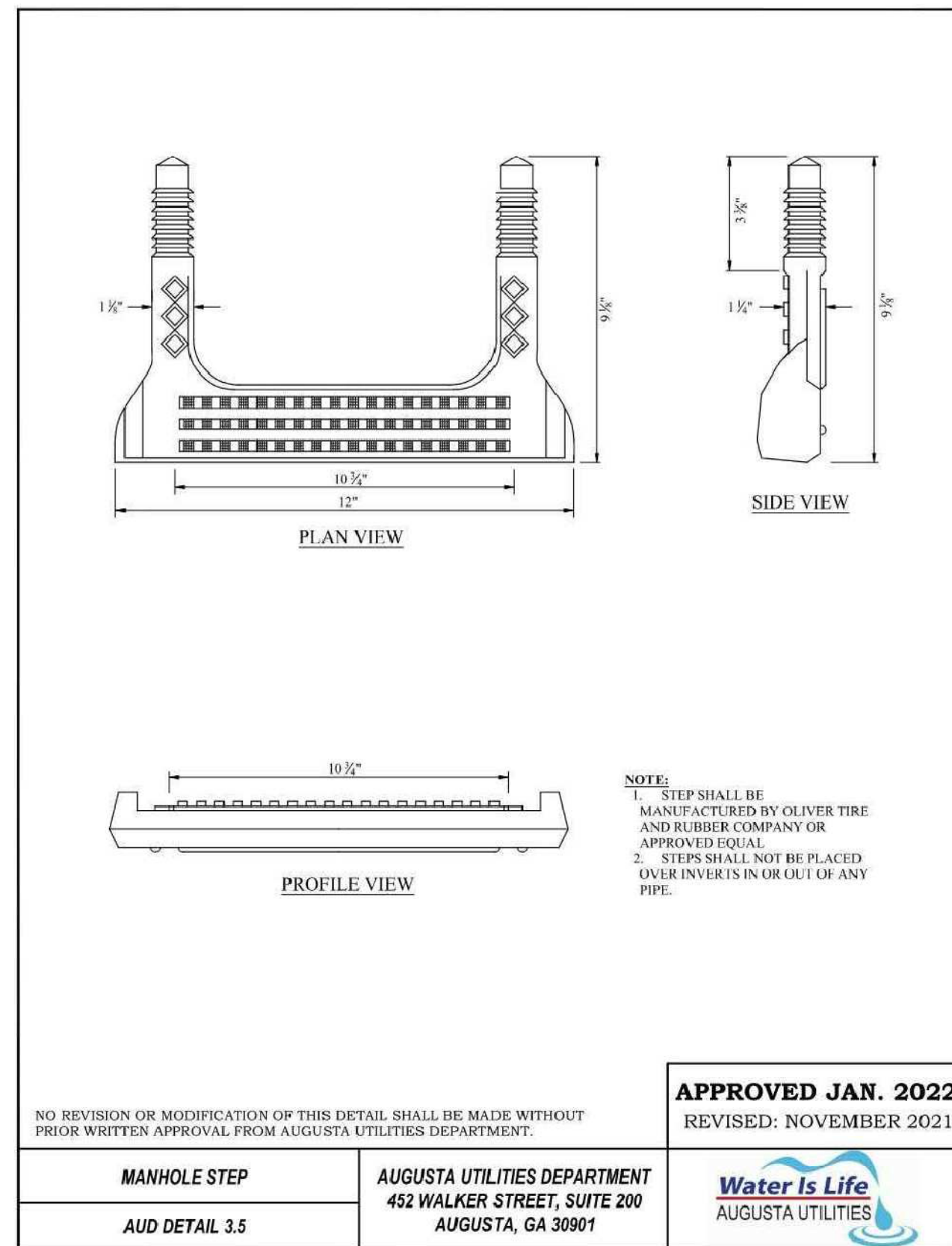
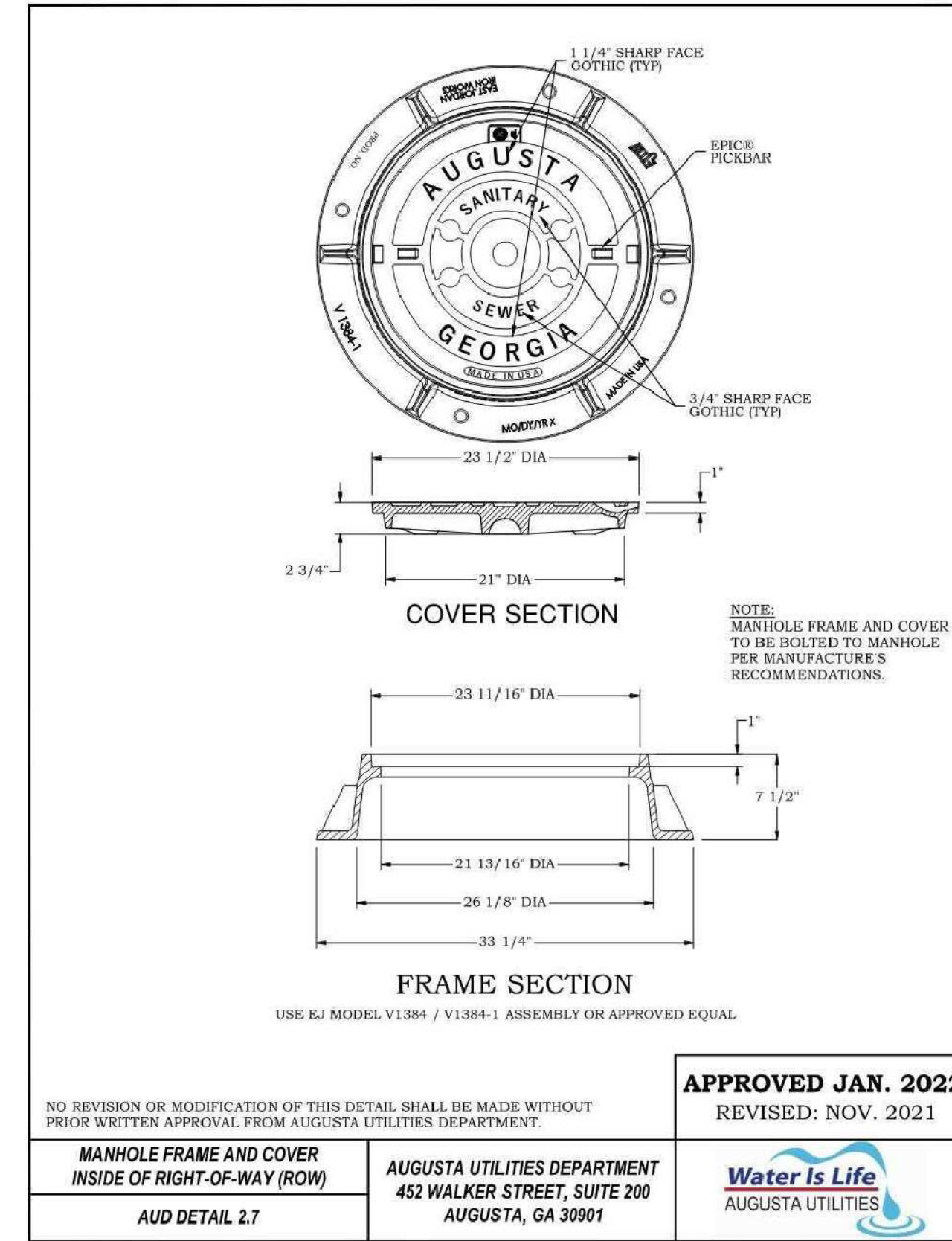
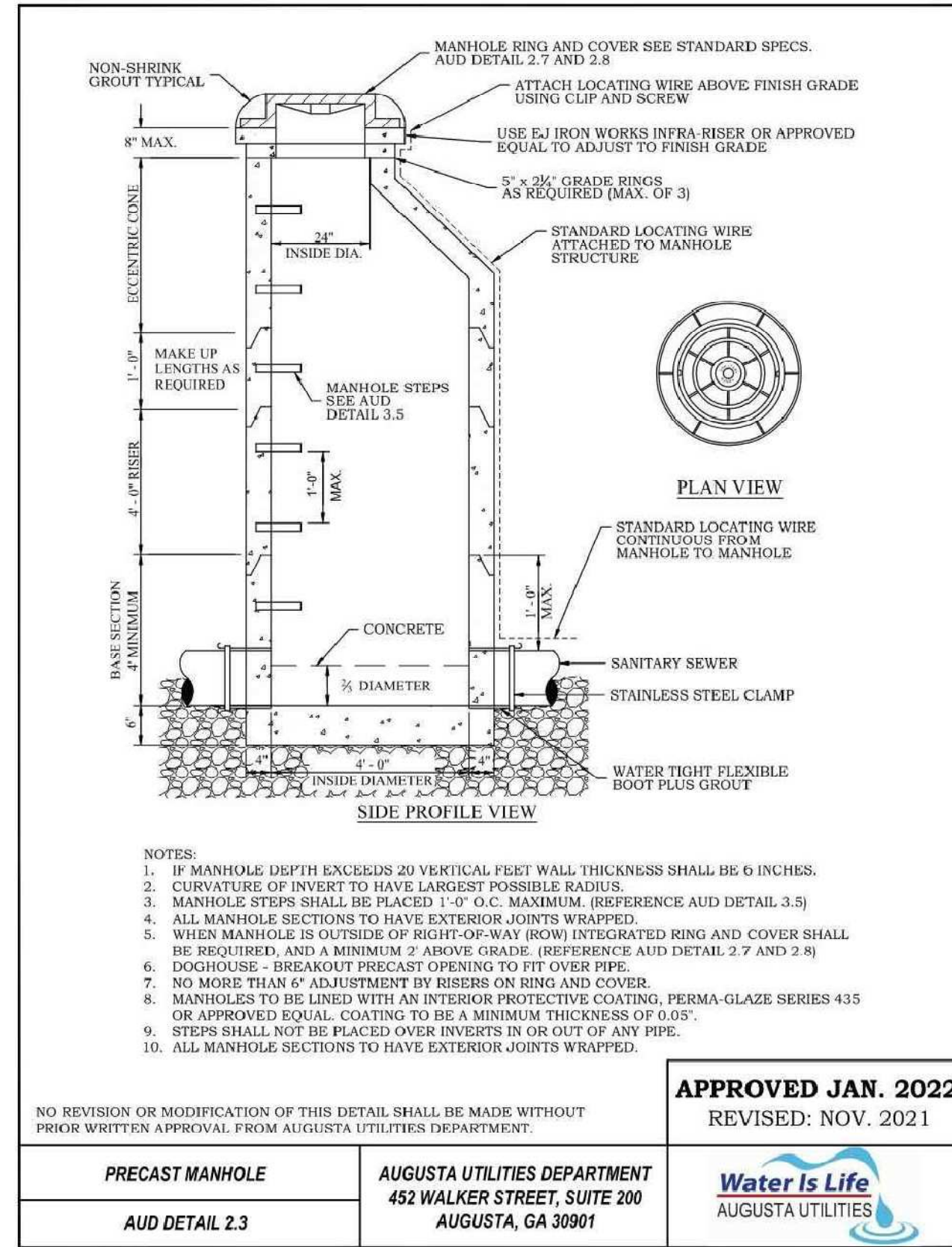
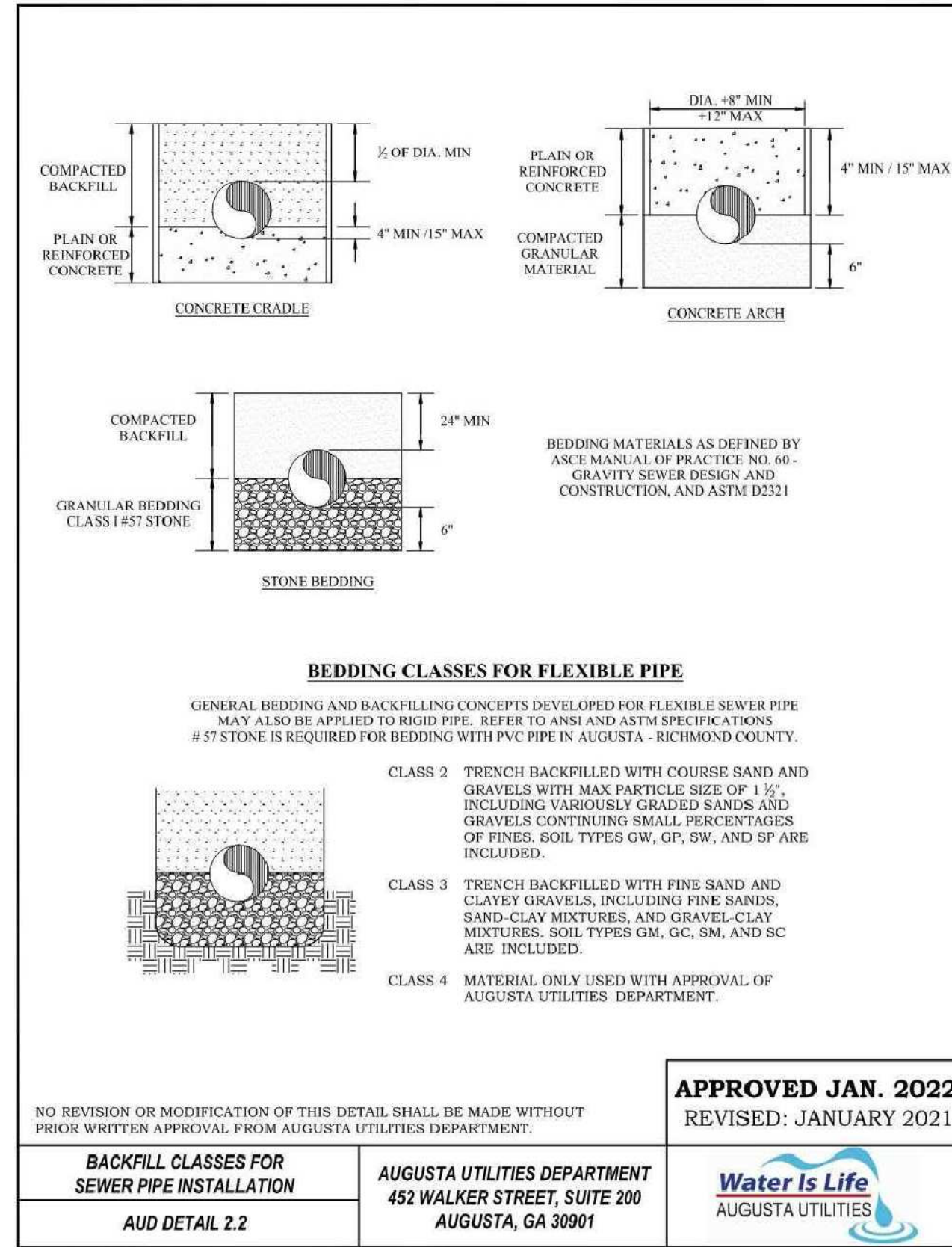
ISSUED FOR BID

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SHEET CONTENTS
UTILITY DETAILS

SHEET NO.:

C-411



UTILITY DETAIL NOTES:

- MANHOLE SHALL BE AIRFIELD RATED TO CARRY 100,000 LBS. DUAL WHEEL LOAD WITH A TIRE PRESSURE OF 250 PSI. PRECAST MANHOLE SUPPLIER SHALL HAVE AN ENGINEER PERFORM NECESSARY CALCULATIONS TO ENSURE THAT THE STRUCTURE CAN CARRY THE AIRCRAFT LOADING, ADJUSTING THE STEEL AND WALL THICKNESS REQUIREMENTS AS NEEDED. SIGNED DRAWINGS SHALL BE INCLUDED WITH THE PROJECT SUBMITTALS. ANY ADDITIONAL CONCRETE OR STEEL REQUIRED SHALL BE AT THE CONTRACTOR'S EXPENSE.

ISSUED



4-22-2022

ISSUED FOR BID

CARES: 3-13-0011-045-2020
M&H NO.: 0119700-202062.01
DATE: APRIL 22, 2022
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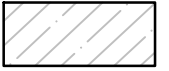
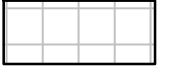




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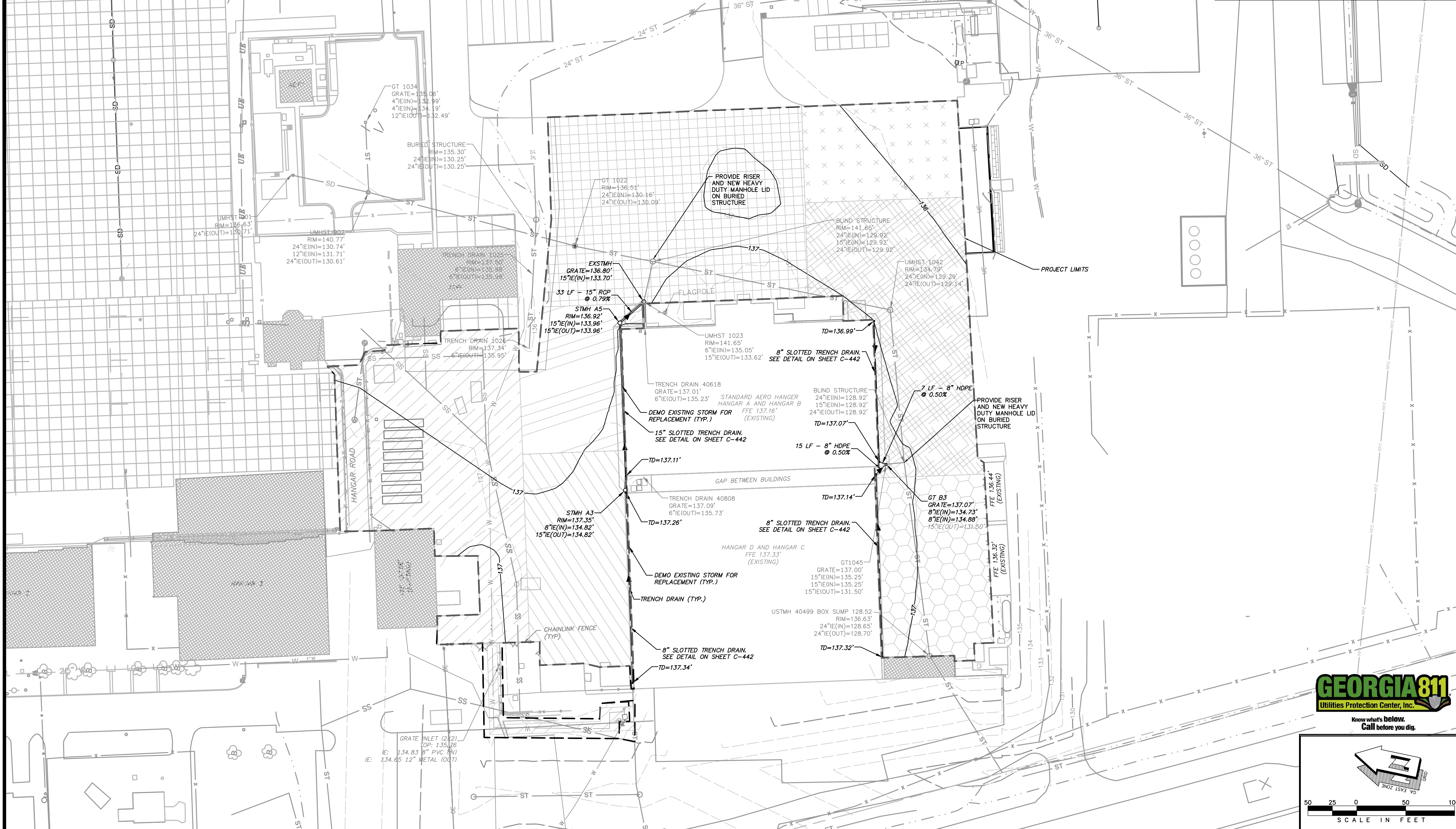
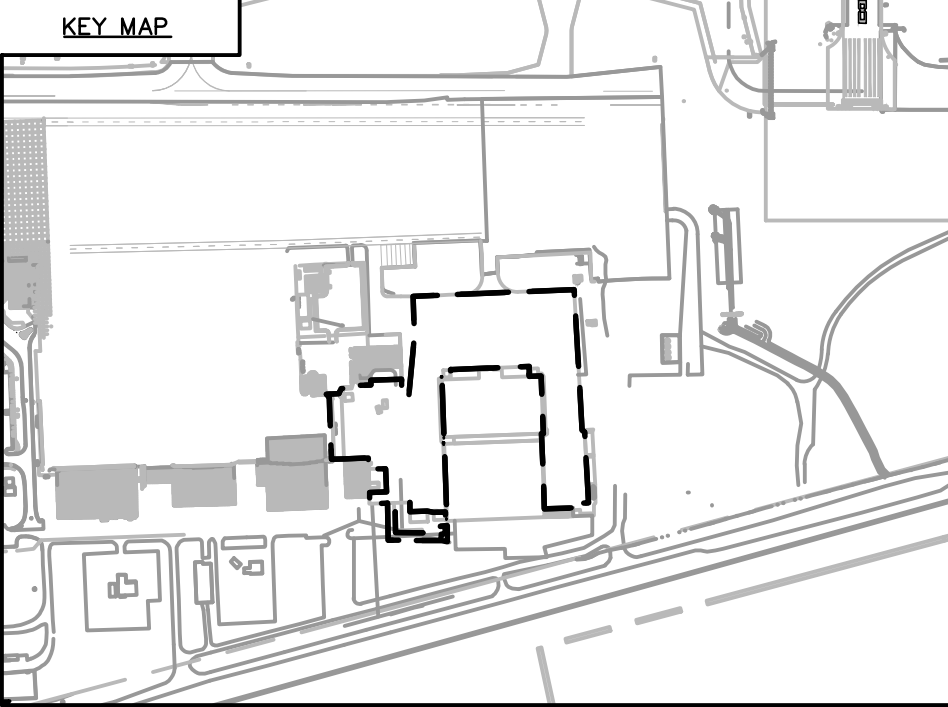
SHEET CONTENTS
UTILITY DETAILS

SHEET NO.:

- STORM NOTES:**
1. STORM PIPE LENGTHS SHOWN HEREON ARE PLAN LENGTHS MEASURED FROM THE CENTER OF STRUCTURE TO CENTER OF STRUCTURE, OR PIPE END IF NO STRUCTURE, AND ARE ROUNDED TO THE NEAREST ONE FOOT. ACTUAL PIPE LENGTHS MAY VARY.
 2. MANHOLE STEPS SHALL BE INSTALLED ON ALL STORM STRUCTURES 4 FEET DEEP OR GREATER.
 3. CONTRACTOR SHALL HAVE REASONABLE LEEWAY TO MAKE MINOR ADJUSTMENTS TO STORM SYSTEM IN ORDER TO MAINTAIN PROJECT UNIFORMITY SO LONG AS THE DESIGNED INTENT OF THE SYSTEMS ARE NOT CHANGED. SUBSTANTIAL CHANGES MUST BE APPROVED BY THE OWNER AND ENGINEER.
 4. ALL STORM STRUCTURE INVERTS SHALL BE FORMED.

WORK AREA PHASING LIMITS:

-  WORK AREA 1A
-  WORK AREA 1B
-  WORK AREA 1C
-  WORK AREA 2A
-  WORK AREA 2B
-  WORK AREA 3A



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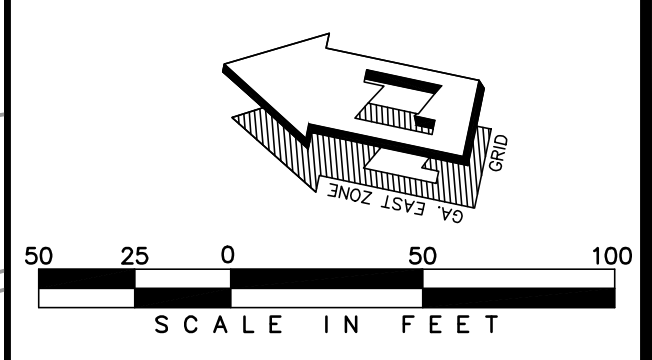
**AUGUSTA REGIONAL AIRPORT
 REHABILITATION OF
 STANDARD AERORAMP
 1550 HANGAR ROAD, AUGUSTA, GA 30906**

ISSUED

 4-22-2022

ISSUED FOR BID
 CARES: 3-13-0011-045-2020
 M&H NO.: 0119700-202062.01
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GEORGIA811
 Utilities Protection Center, Inc.
 Know what's below.
 Call before you dig.



SHEET NO.:
C-441

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4-22-2022

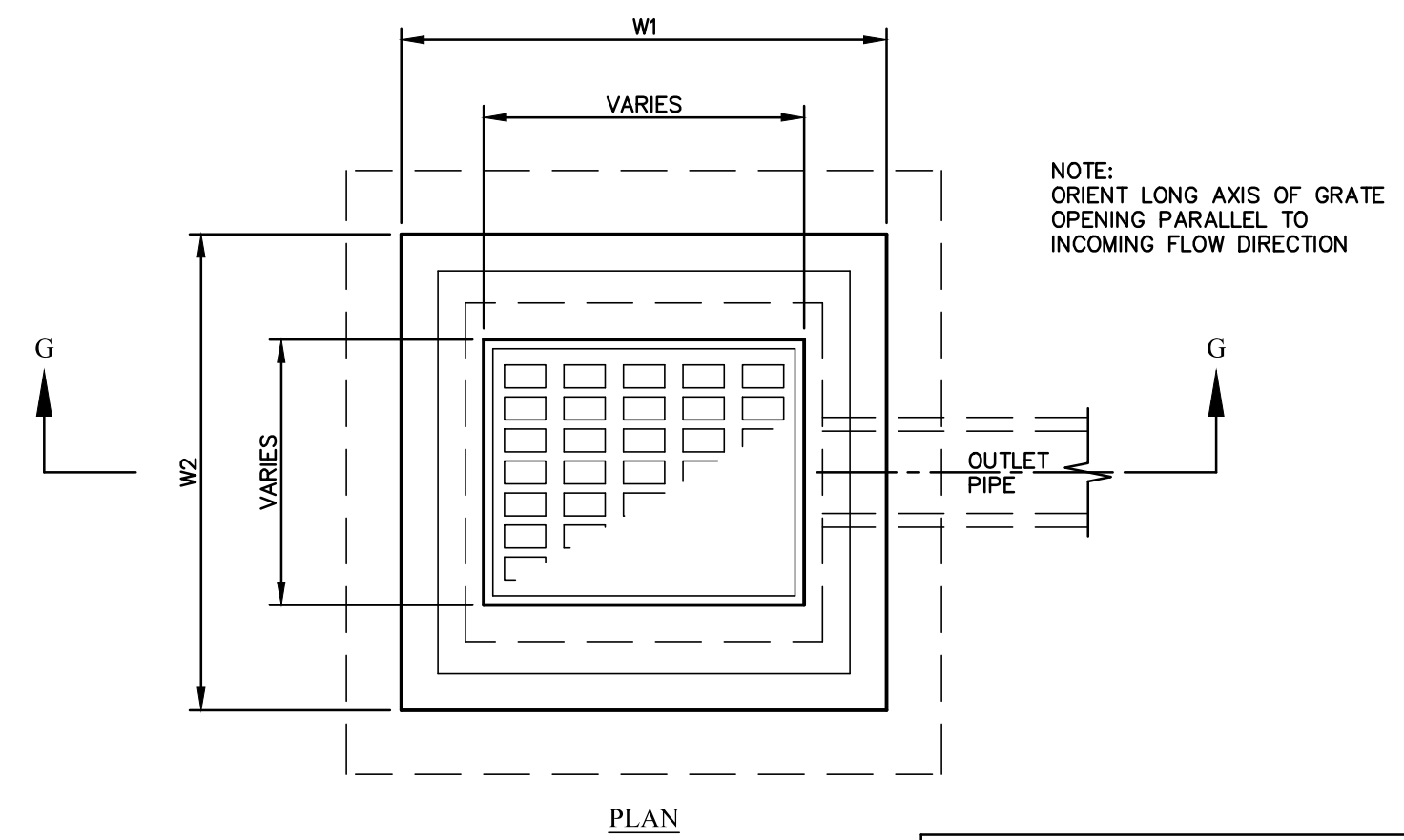
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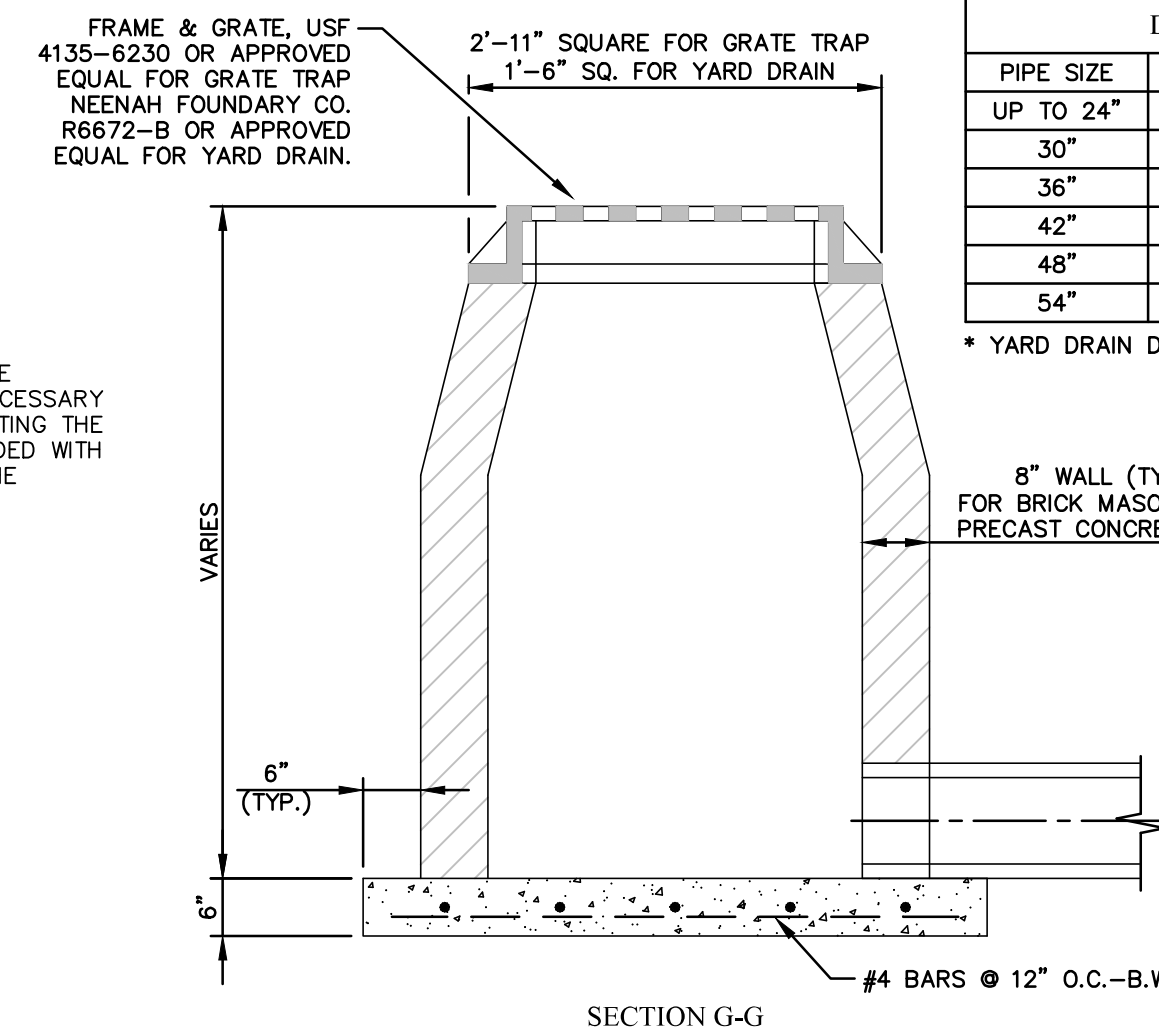
SHEET CONTENTS
STORM UTILITY DETAILS

SHEET NO.:



PIPE SIZE	W1*	W2*	MIN. "D"	SLAB "T"
UP TO 24"	4'-0"	4'-0"	4'-0"	6"
30"	4'-0"	4'-6"	4'-6"	10"
36"	5'-0"	5'-0"	5'-0"	12"
42"	5'-0"	5'-10"	5'-6"	12"
48"	6'-2"	6'-4"	6'-0"	12"
54"	6'-8"	6'-8"	6'-6"	12"

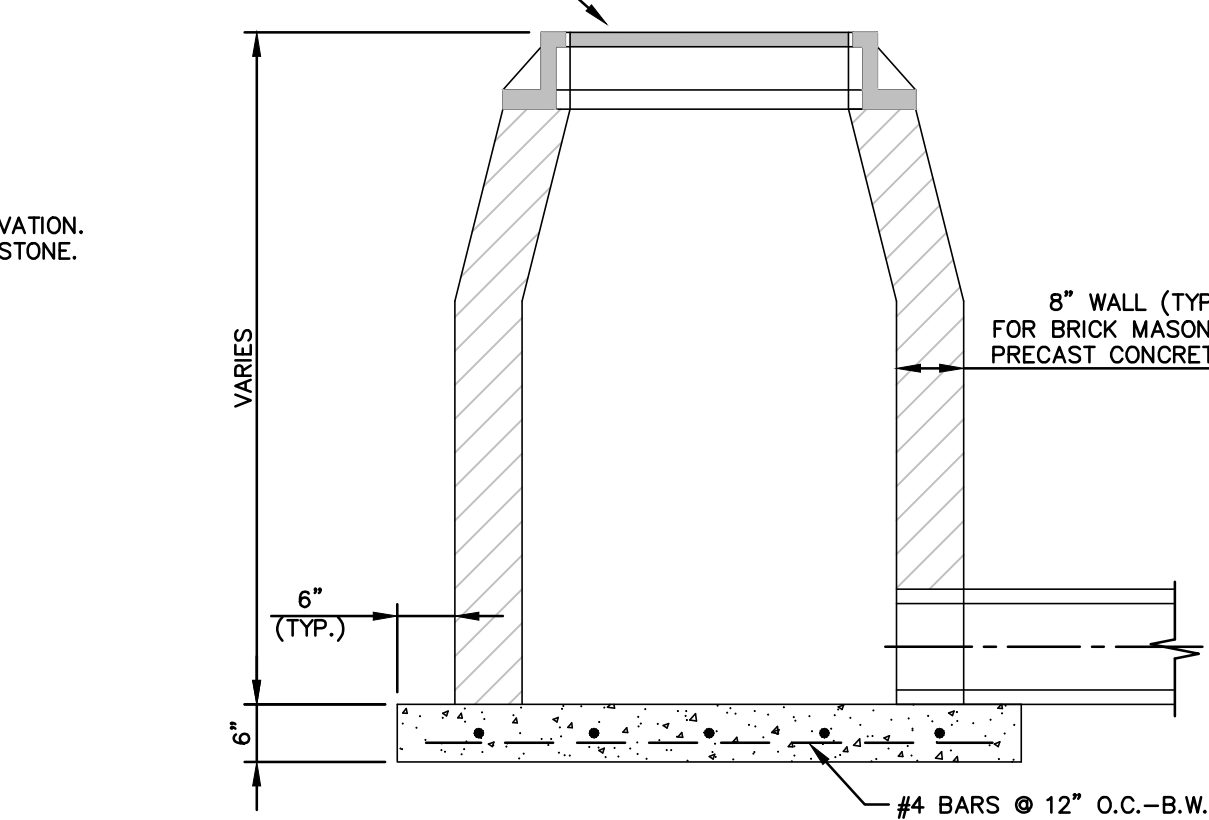
* YARD DRAIN DIMENSIONS SHALL BE 1'-6".



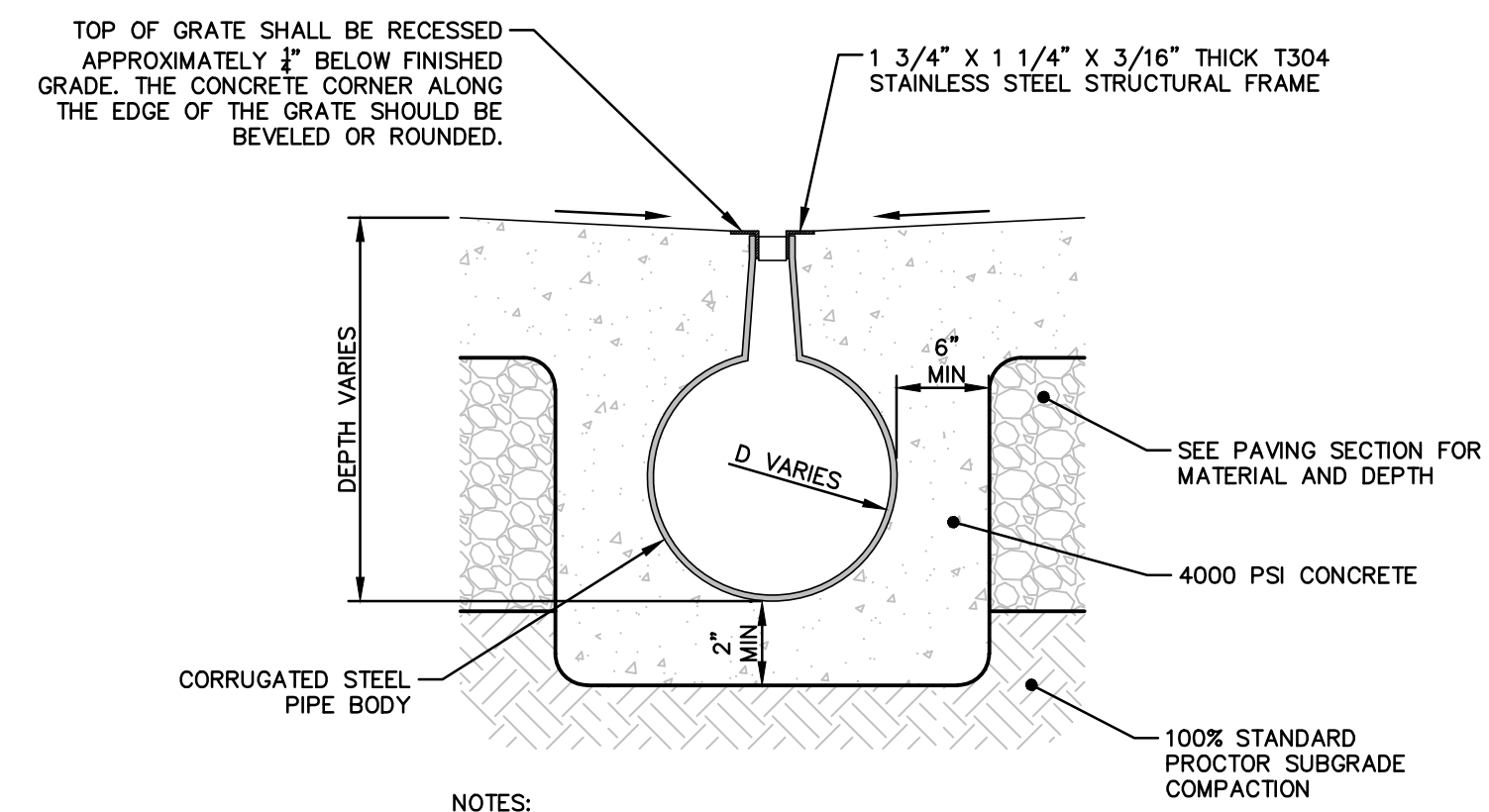
GRATE TRAP
N.T.S.

PIPE SIZE	W1*	W2*	MIN. "D"	SLAB "T"
UP TO 24"	4'-0"	4'-0"	4'-0"	6"
30"	4'-0"	4'-6"	4'-6"	10"
36"	5'-0"	5'-0"	5'-0"	12"
42"	5'-0"	5'-10"	5'-6"	12"
48"	6'-2"	6'-4"	6'-0"	12"
54"	6'-8"	6'-8"	6'-6"	12"

MANHOLE NOTES:
1) IF DEPTH IS MORE THAN 4'-6" PROVIDE MANHOLE STEPS.
2) ALL MANHOLES AND LIDS SHALL BE AIRFIELD RATED TO CARRY 100,000 LBS. DUAL WHEEL LOAD WITH A TIRE PRESSURE OF 250 PSI.
3) PROVIDE JOINT SEALANT ON PRECAST MANHOLES PER MANUFACTURER'S RECOMMENDATIONS.

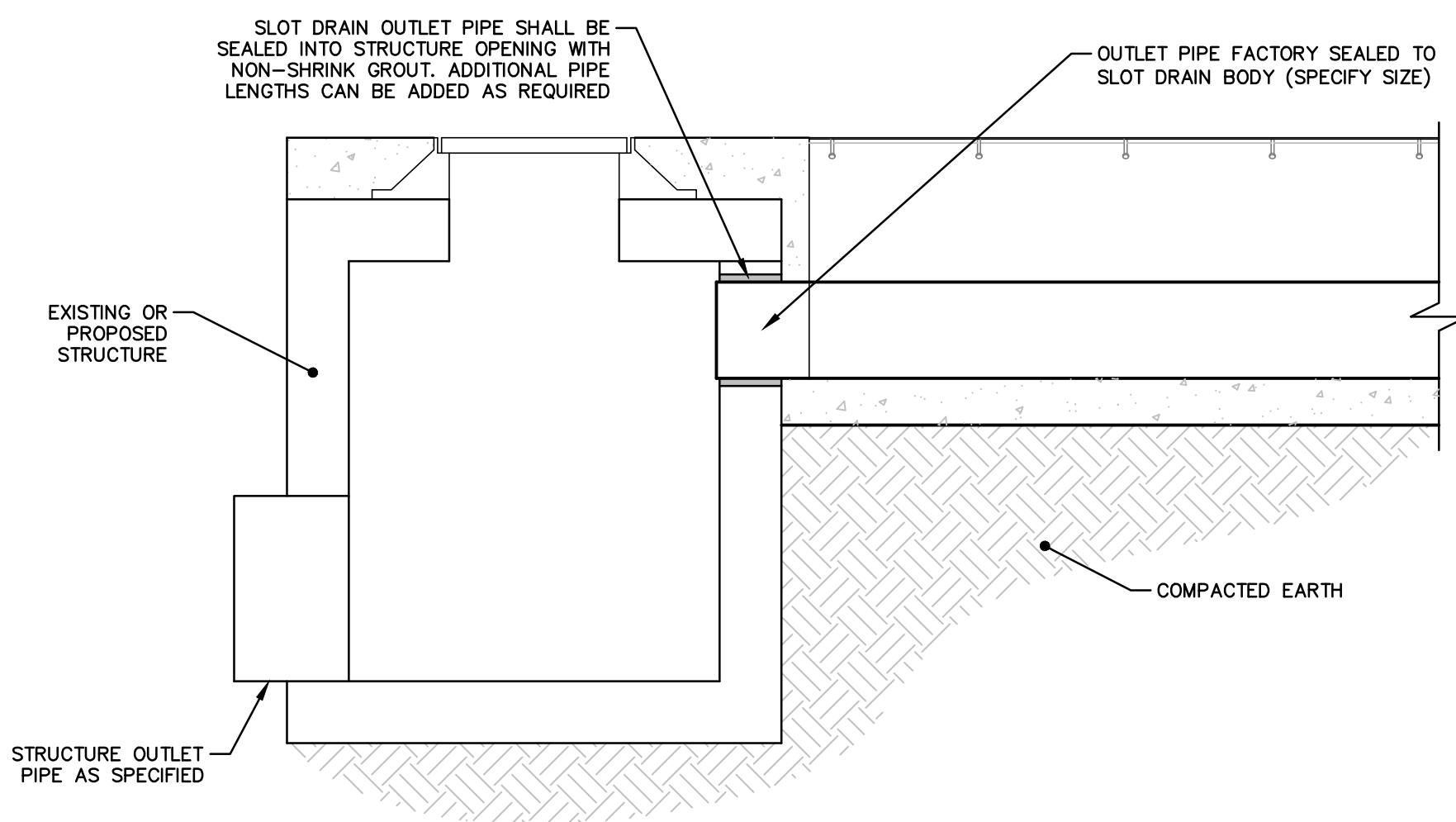


MANHOLE DETAIL
N.T.S.



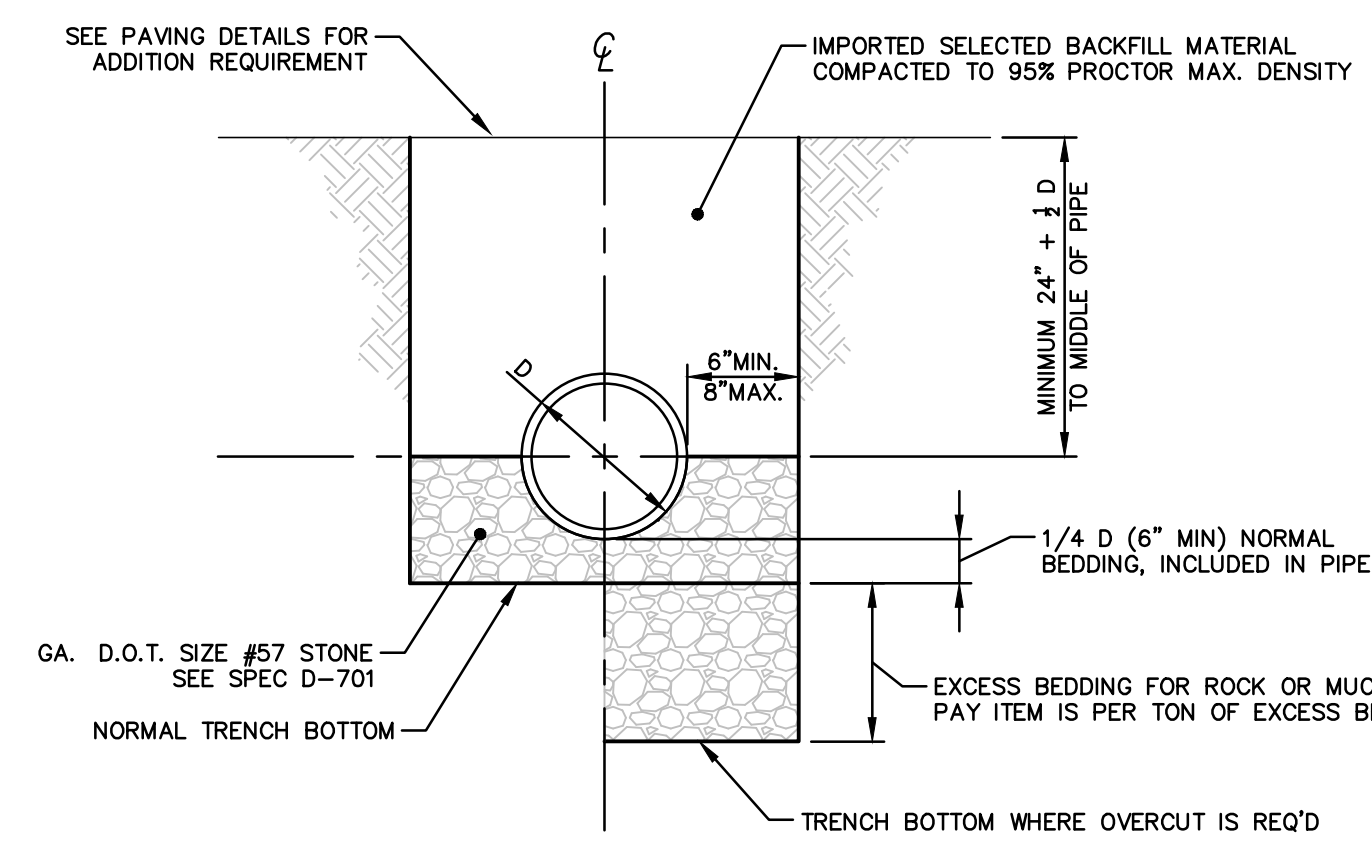
- NOTES:
- STANDARD SLOPE IS 0.5% UNLESS OTHERWISE SPECIFIED.
 - GRATES SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123 WITH A 2 OUNCE/SF GALVANIZED COATING.
 - GRATE SHALL BE FILLET WELDED TO THE CORRUGATED STEEL PIPE WITH A MINIMUM WELD ONE INCH LONG ON EACH SIDE OF THE GRATE AT EVERY OTHER CORRUGATION.
 - WELD AREAS AND THE HEAT AFFECTED ZONES WHERE THE SLOT IS WELDED TO THE CORRUGATED PIPE SHALL BE THOROUGHLY CLEANED AND PAINTED WITH A ZINC-RICH PAINT IN ACCORDANCE WITH REPAIR DAMAGED COATINGS ASTM A760.

TYPICAL SLOT DRAIN DETAIL
N.T.S.



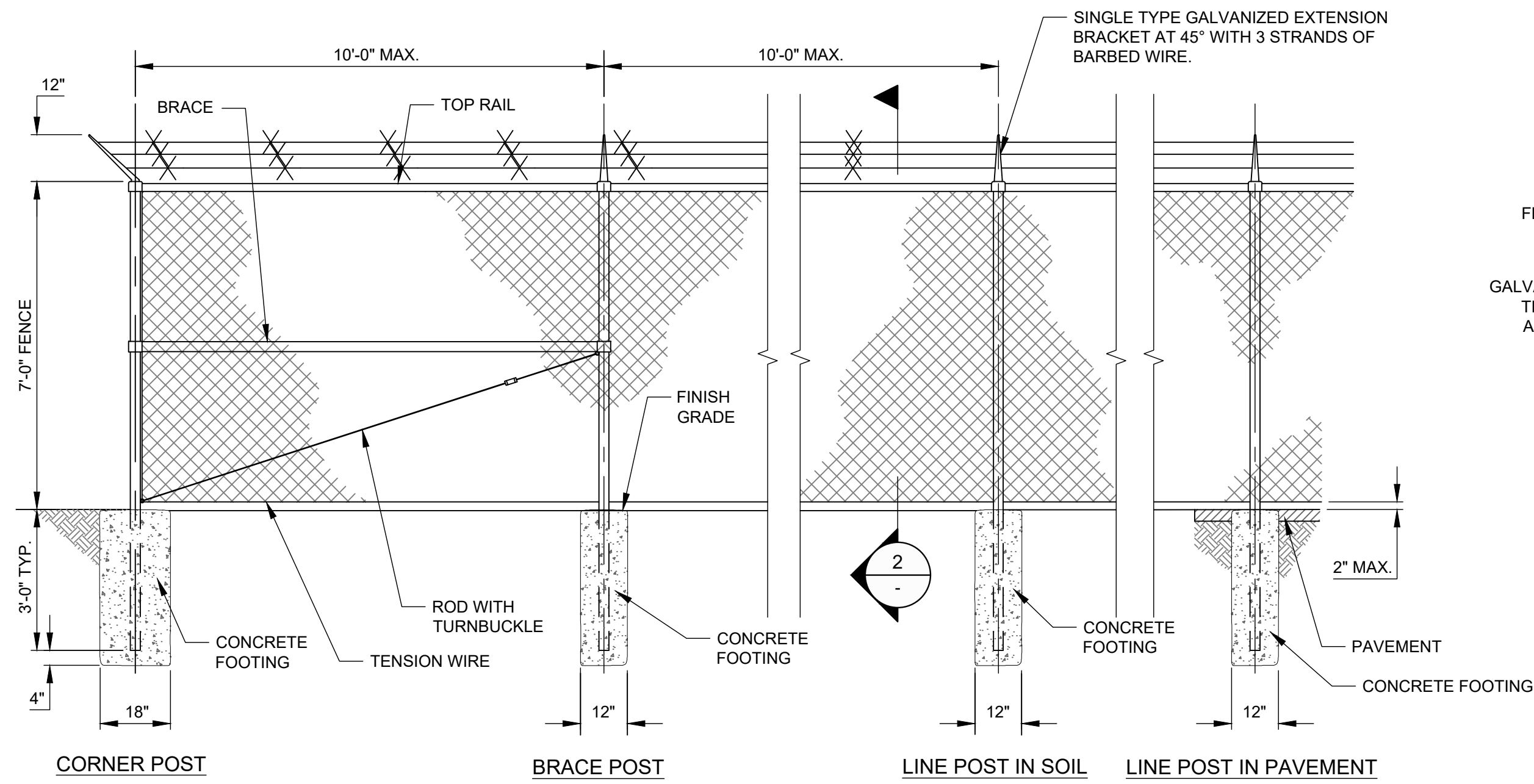
SLOT DRAIN OUTLET CONNECTION DETAIL
N.T.S.

- UTILITY DETAIL NOTES:
- MANHOLE SHALL BE AIRFIELD RATED TO CARRY 100,000 LBS. DUAL WHEEL LOAD WITH A TIRE PRESSURE OF 250 PSI. PRECAST MANHOLE SUPPLIER SHALL HAVE AN ENGINEER PERFORM NECESSARY CALCULATIONS TO ENSURE THAT THE STRUCTURE CAN CARRY THE AIRCRAFT LOADING, ADJUSTING THE STEEL AND WALL THICKNESS REQUIREMENTS AS NEEDED. SIGNED DRAWINGS SHALL BE INCLUDED WITH THE PROJECT SUBMITTALS. ANY ADDITIONAL CONCRETE OR STEEL REQUIRED SHALL BE AT THE CONTRACTOR'S EXPENSE.

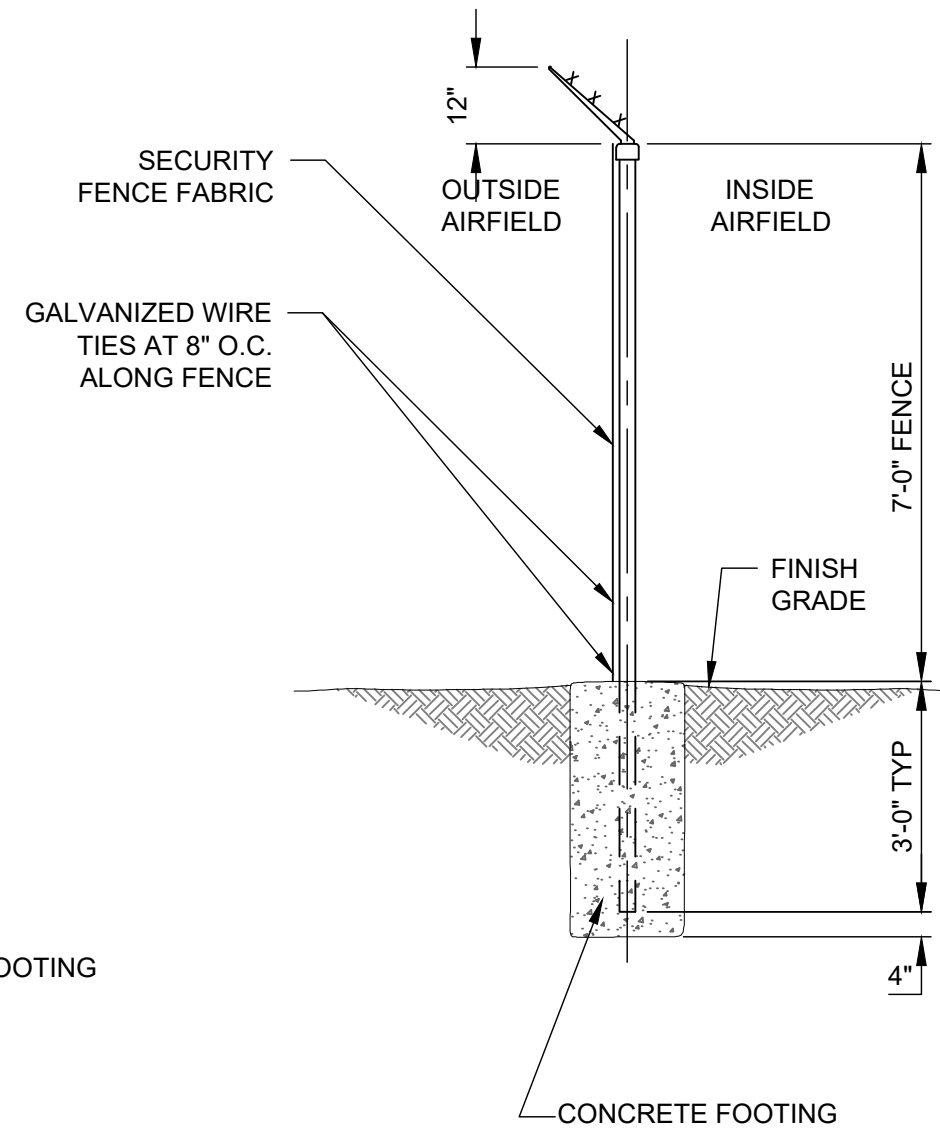


TRENCHING & BACKFILLING FOR STORM PIPE DETAIL
N.T.S.

G:\PROJECTS\2020\2020-0349_AGS - STANDARD AERO RAMP REHABILITATION.AA - DRAWINGS\CIVIL\2020-0349-PLAN_UTIL.DWG 4/22/2022 4:45 PM



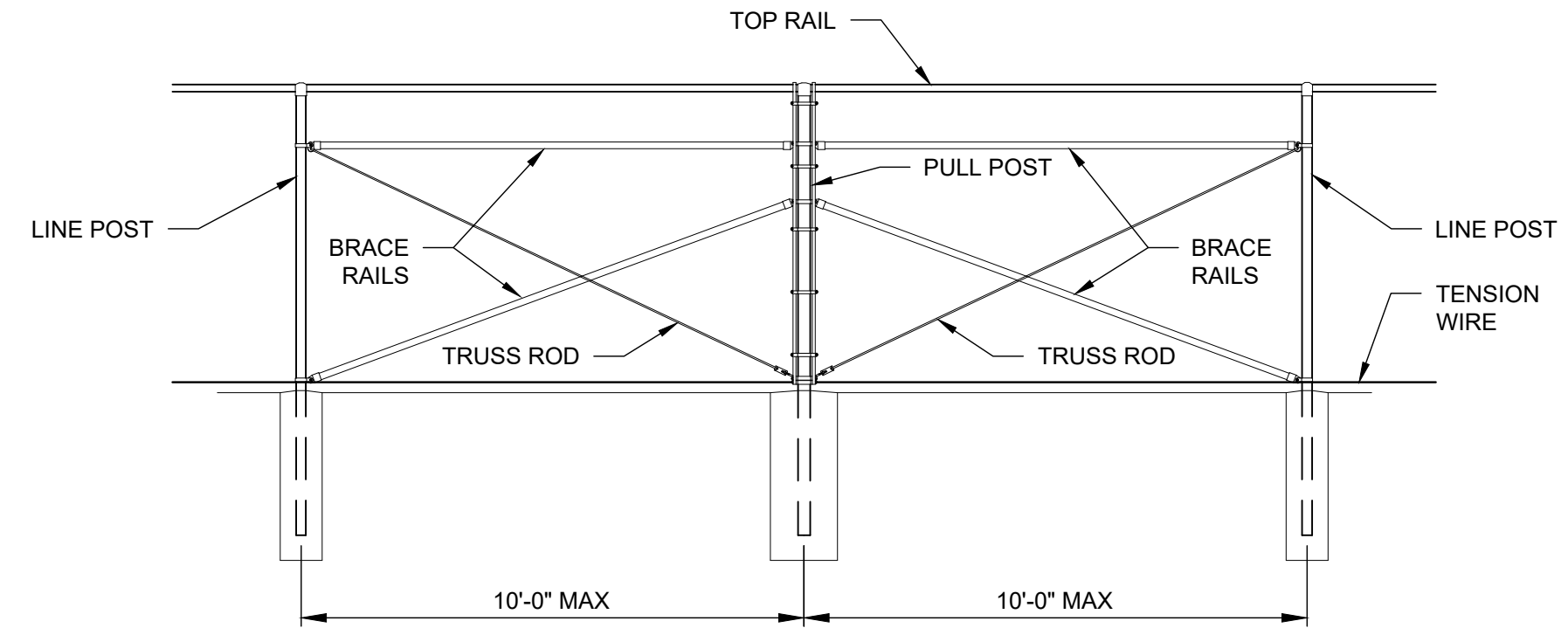
1 CHAIN LINK SECURITY FENCE DETAIL
NOT TO SCALE



2 CHAIN LINK FENCE SECTION
NOT TO SCALE

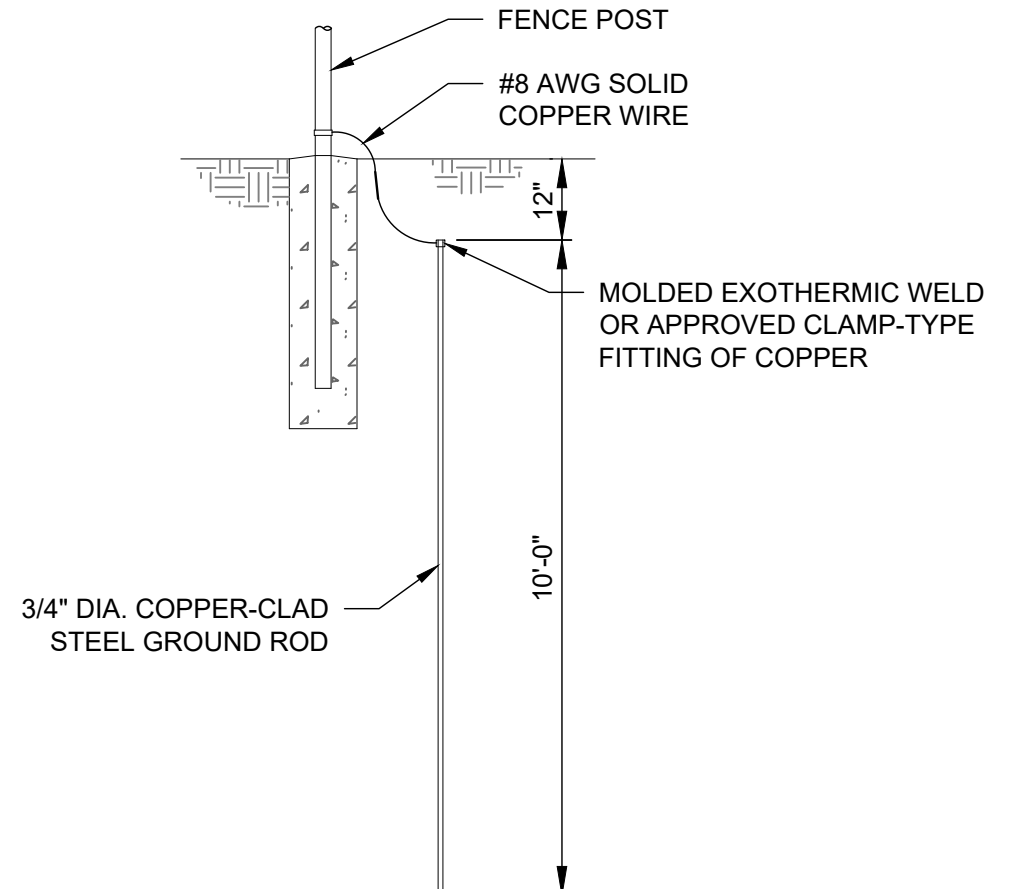
USE AND SECTION	STEEL POST SCHEDULE		
	MINIMUM OUTSIDE DIMENSIONS (NOMINAL)		
	FABRIC WIDTH 72" INCHES OR LESS	FABRIC WIDTH 84" TO 96"	FABRIC WIDTH 108" AND OVER
CORNER, END & PULL POSTS			
TUBULAR - ROUND	2.375" O.D.	2.875" O.D.	4.00" O.D.
TUBULAR - SQUARE	2.00" SQ.	2.50" SQ.	3.00" SQ.
C-SECTION (ROLL-FORMED)	3.50" x 3.50"	3.50" x 3.50"	---
LINE POSTS			
TUBULAR - ROUND	1.90" O.D.	2.375" O.D.	2.875" O.D.
H-SECTION	2.25" x 1.70"	2.25" x 1.70"	2.25" x 1.70"
C-SECTION (ROLL-FORMED)	1.875" x 1.625"	2.25" x 1.70"	---
TOP, BOTTOM & BRACE RAILS			
TUBULAR - ROUND		1.66" O.D.	---
TUBULAR - SQUARE		1.50" SQ.	---
H-SECTION		1.625" x 1.50"	---
C-SECTION (ROLL-FORMED)		1.625" x 1.25"	---

- NOTES:**
- DETAILS SHOWN ARE TO CLARIFY REQUIREMENTS AND ARE NOT INTENDED TO LIMIT OTHER TYPES OF FENCE SECTIONS AND METHODS OF INSTALLATION THAT COMPLY WITH THE SPECIFICATIONS.
 - WIRE TIES, RAILS, POSTS, AND BRACES SHALL BE CONSTRUCTED ON THE SECURE SIDE OF THE FENCE ALIGNMENT. CHAIN-LINK FABRIC SHALL BE PLACED ON THE SIDE OPPOSITE THE SECURE AREA.
 - C-SECTION POSTS SHALL BE INSTALLED SO THAT THE VOID INSIDE THE POST IS COMPLETELY FILLED WITH CONCRETE UP TO THE TOP OF THE FOUNDATION.

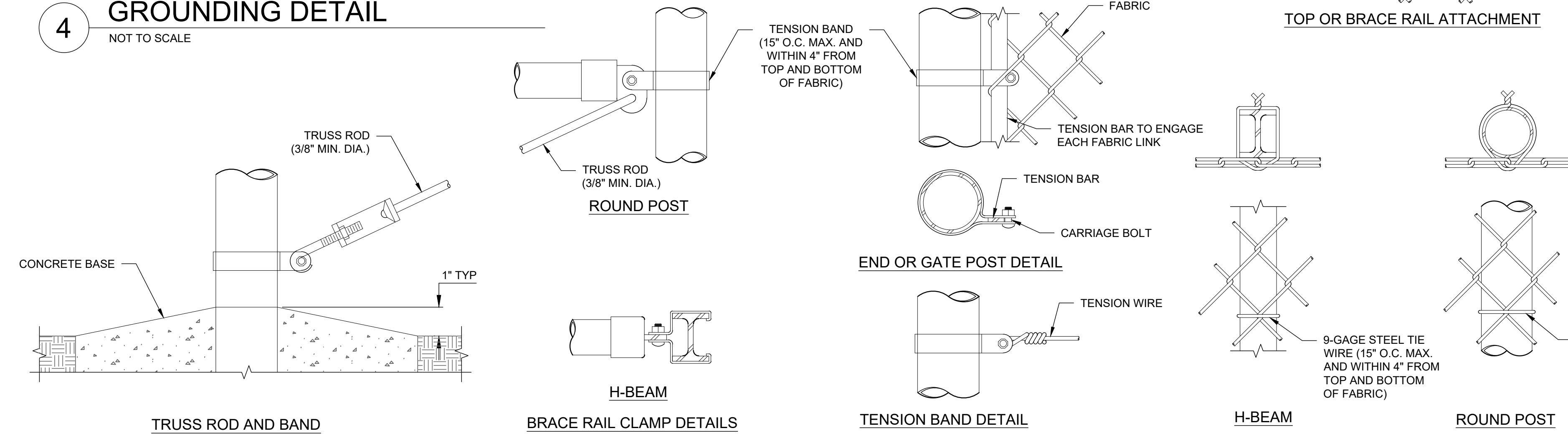


3 BRACE PANEL DETAIL
NOT TO SCALE

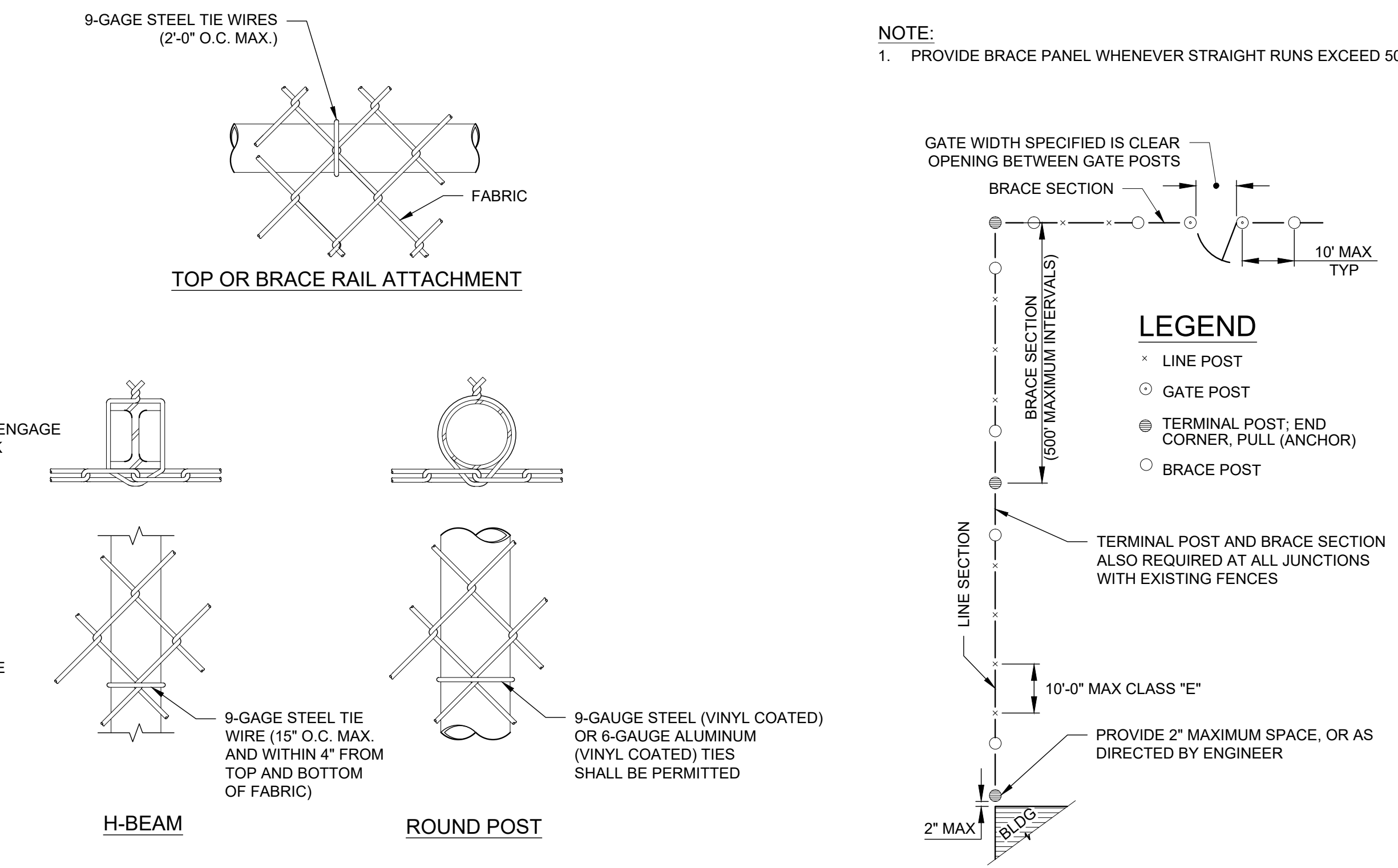
- NOTE:**
- PROVIDE BRACE PANEL WHENEVER STRAIGHT RUNS EXCEED 500 FEET.



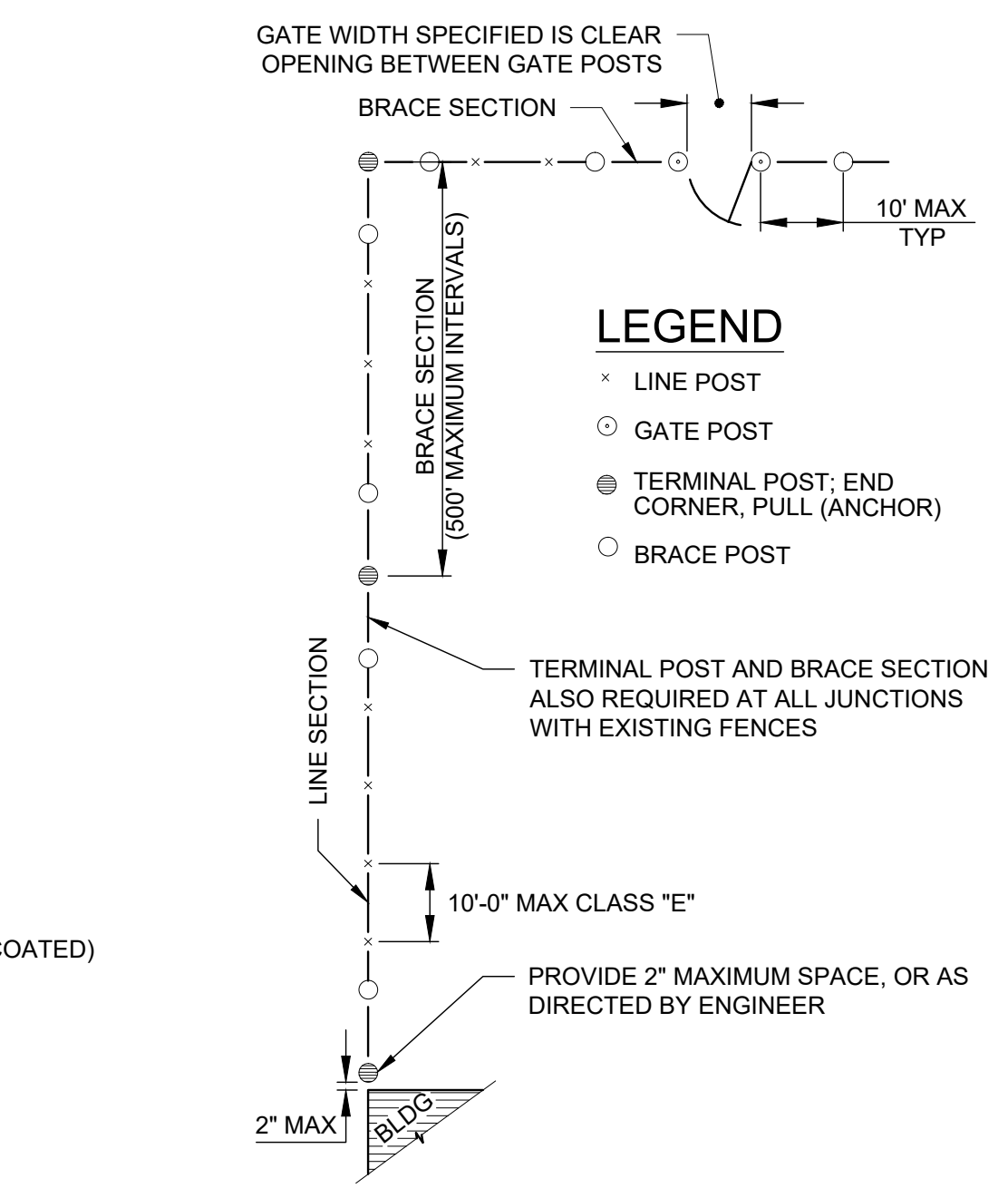
4 GROUNDING DETAIL
NOT TO SCALE



5 FASTENING DETAILS
NOT TO SCALE



6 LINE POST ATTACHMENT DETAILS
NOT TO SCALE



7 TYPICAL FENCE LAYOUT
NOT TO SCALE

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

Augusta
Regional Airport

**AUGUSTA REGIONAL AIRPORT
REHABILITATION OF STANDARD
AERO RAMP**
1501 AVIATION WAY
AUGUSTA, GA 30906-9620

ISSUED
ISSUED FOR BID

NOT FOR CONSTRUCTION

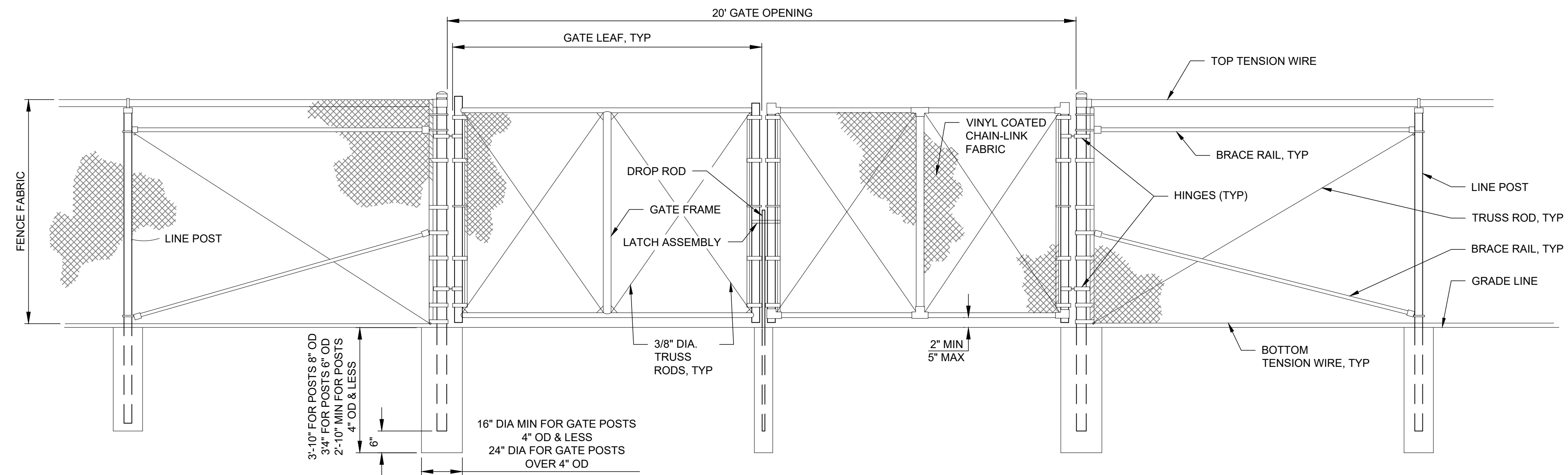
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M&H NO: 0119700-202062.01
DATE: APRIL 22, 2022
DESIGNED BY: EJS
DRAWN BY: NJH
CHECKED BY: DES
DO NOT SCALE DRAWINGS

SHEET CONTENTS
FENCING DETAILS

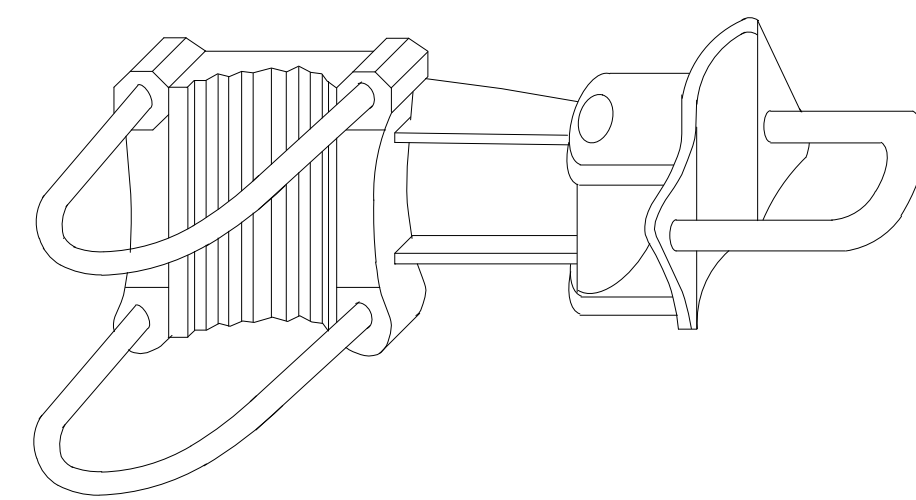
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C-601

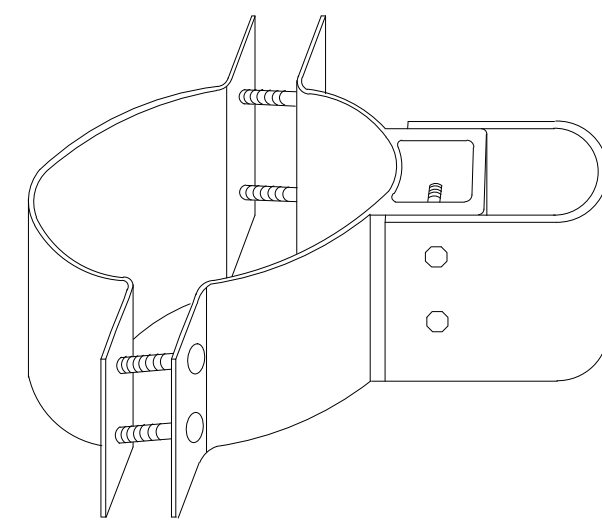
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1 DOUBLE SWING GATE DETAIL
NOT TO SCALE

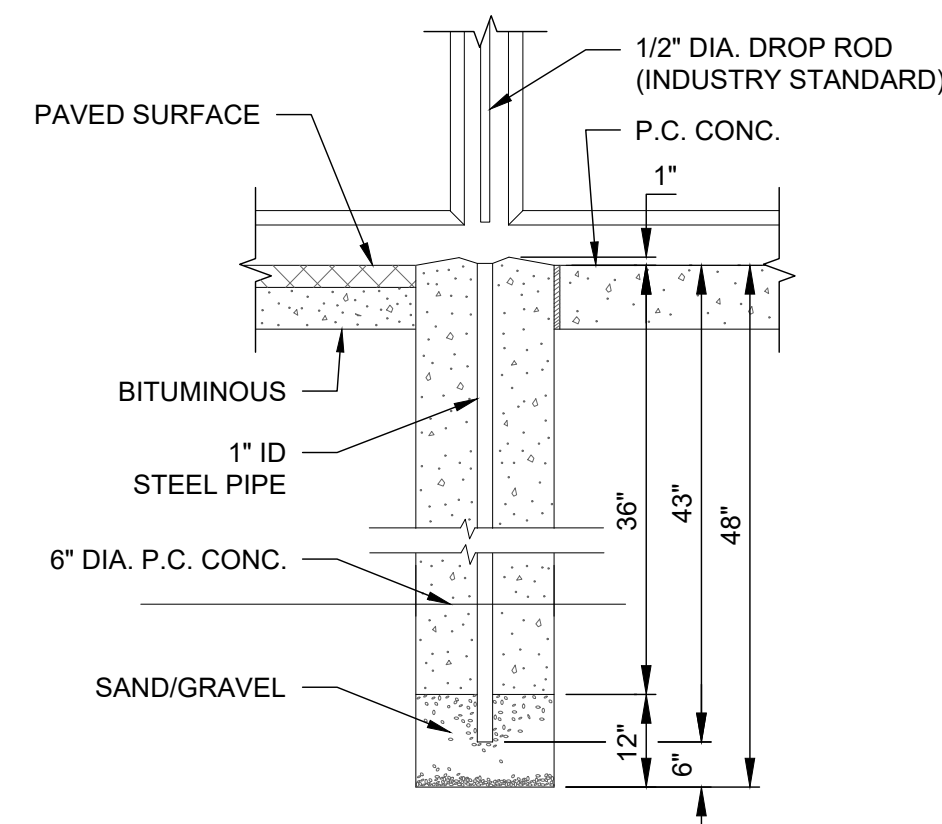


OFFSET HINGE

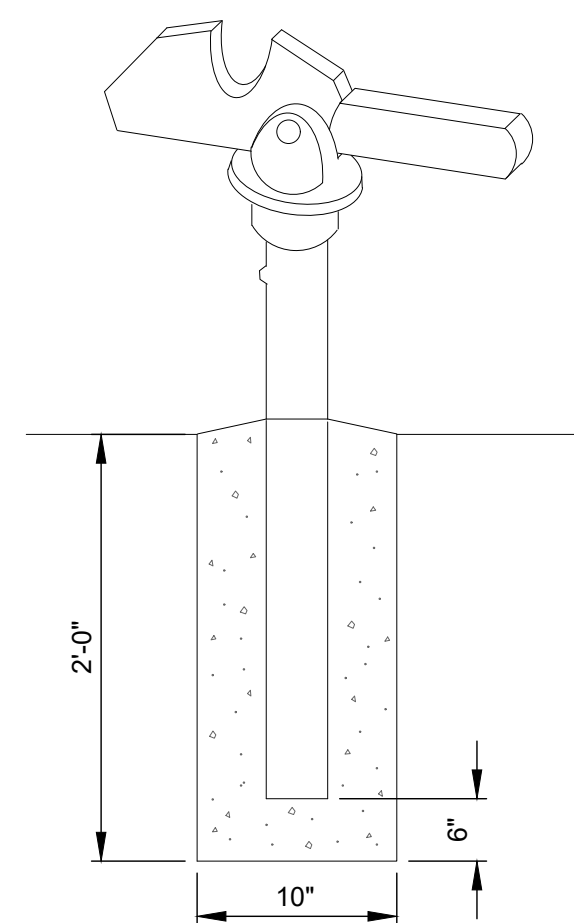


STANDARD HINGE

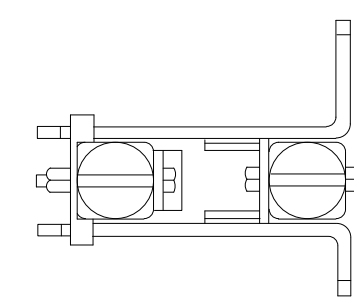
GATE POST SCHEDULE	
GATE LEAF WIDTH (NOMINAL)	OUTSIDE DIMENSION (NOMINAL)
6' OR LESS	2.875" OD 2.5" SQ
MORE THAN 6' TO 13'	4.0" OD
MORE THAN 13' TO 18'	6.625" OD
MORE THAN 18'	8.625" OD



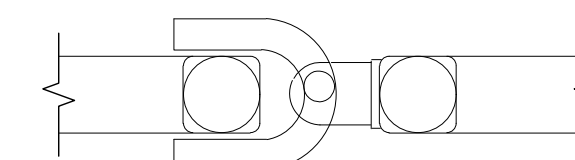
DROP ROD FOUNDATION



GATE KEEPER



LATCH ASSEMBLY



DROP ROD ASSEMBLY

GENERAL NOTES:

1. DETAILS SHOWN ARE TO CLARIFY REQUIREMENTS AND ARE NOT INTENDED TO LIMIT OTHER TYPE OF FENCE SECTIONS AND METHODS OF INSTALLATION THAT COMPLY WITH THE SPECIFICATIONS.
2. SWING GATES SHALL BE CONSTRUCTED WITH DROP RODS, PADLOCKS, LATCH ASSEMBLY AND GATE KEEPERS EXCEPT AS NOTED.
3. ALL GATE FRAMES SHALL BE A MINIMUM 1.90" NOMINAL (ROUND) OR 2.00" NOMINAL (SQUARE). GATE FRAMES SHALL BE OF WELDED CONSTRUCTION ONLY. AT CONTRACTOR'S OPTION A WELDED HORIZONTAL BRACE MAY BE USED IN LIEU OF TRUSS RODS TO BRACE ALL-WELDED GATE FRAMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER RIGID CONSTRUCTION OF ALL GATES SUPPLIED.

2 SWING GATE DETAILS
NOT TO SCALE

**AUGUSTA REGIONAL AIRPORT
REHABILITATION OF STANDARD
AERO RAMP**
 1501 AVIATION WAY
 AUGUSTA, GA 30906-9620

ISSUED
ISSUED FOR BID

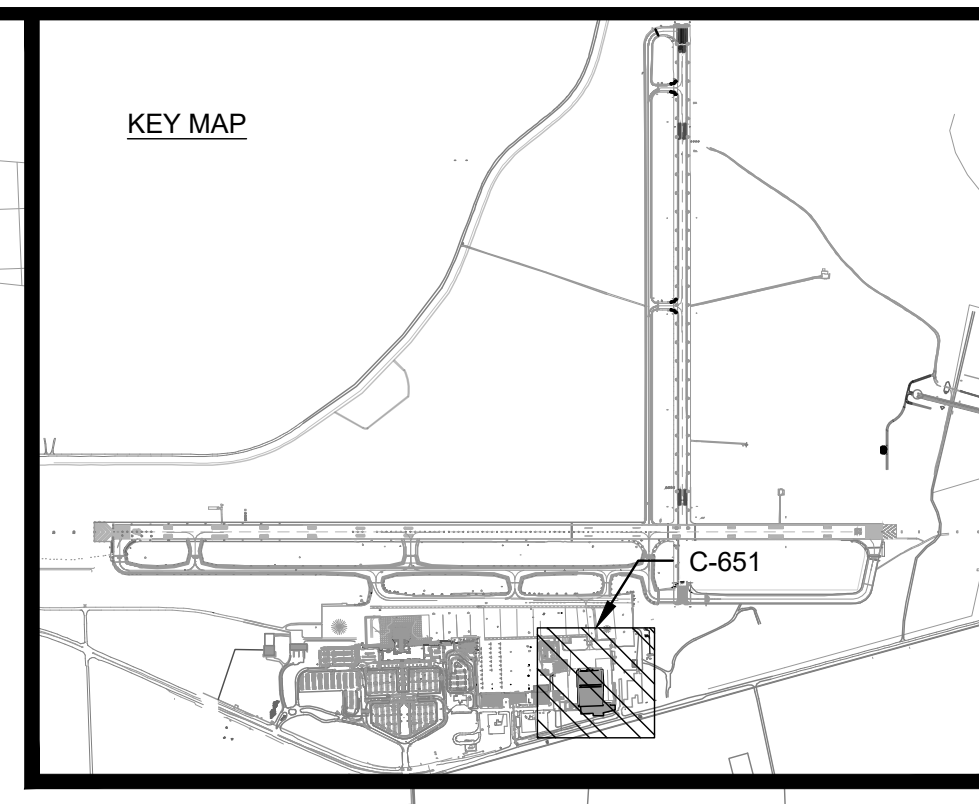
NOT FOR CONSTRUCTION

CARES: 3-13-0011-045-2020
 MSH NO.: 0119700-202062.01
 DATE: APRIL 22, 2022
 DESIGNED BY: EJS
 DRAWN BY: NJH
 CHECKED BY: DES
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SHEET CONTENTS
GATE DETAILS

SHEET NO.

C-641



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AUGUSTA REGIONAL AIRPORT REHABILITATION OF STANDARD AERO RAMP 1501 AVIATION WAY AUGUSTA, GA 30906-9620

ISSUED
ISSUED FOR BID

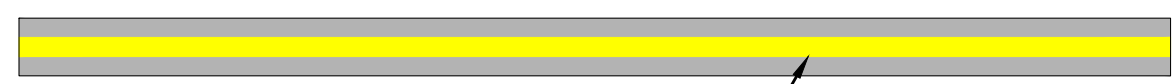
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SHEET CONTENTS
MARKING PLAN &
DETAILS

SHEET NO.

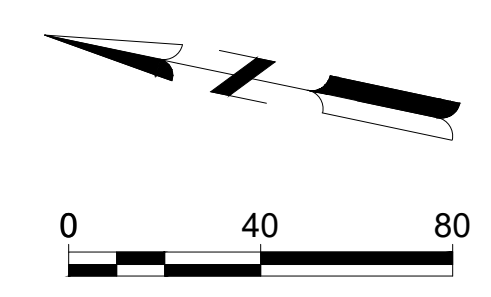
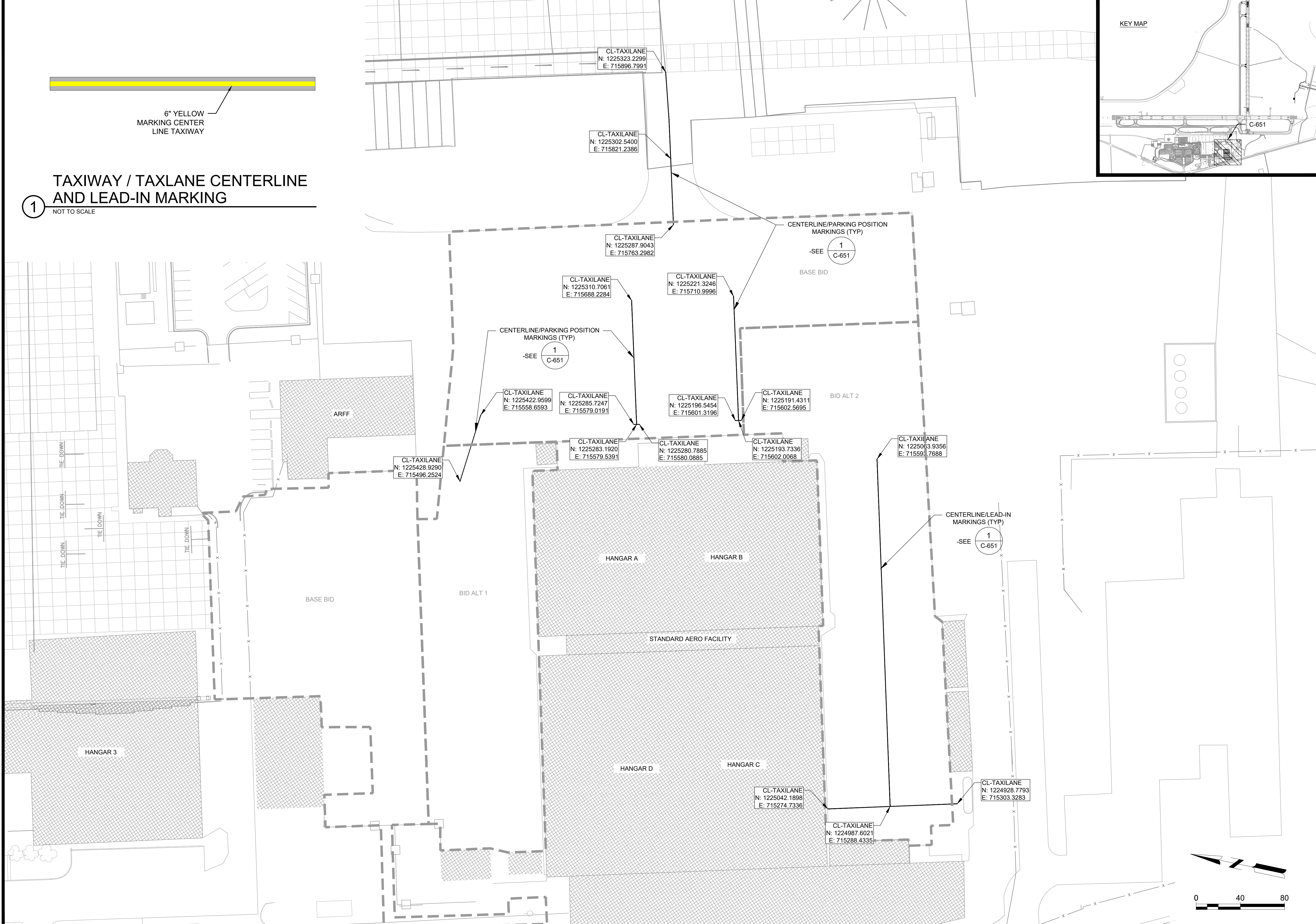
C-651



6" YELLOW
MARKING CENTER
LINE TAXIWAY

TAXIWAY / TAXLANE CENTERLINE AND LEAD-IN MARKING

1
NOT TO SCALE



X:\0119700\202062.01\TECH\CADD\DRAWINGS\C-651 MARKING PLAN & DETAILS.DWG
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