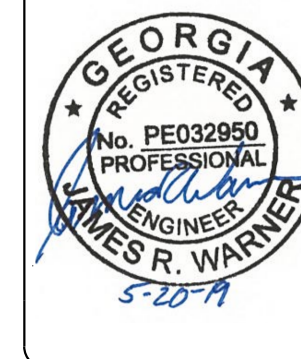


05/20/2019

100% Certified Final Submission

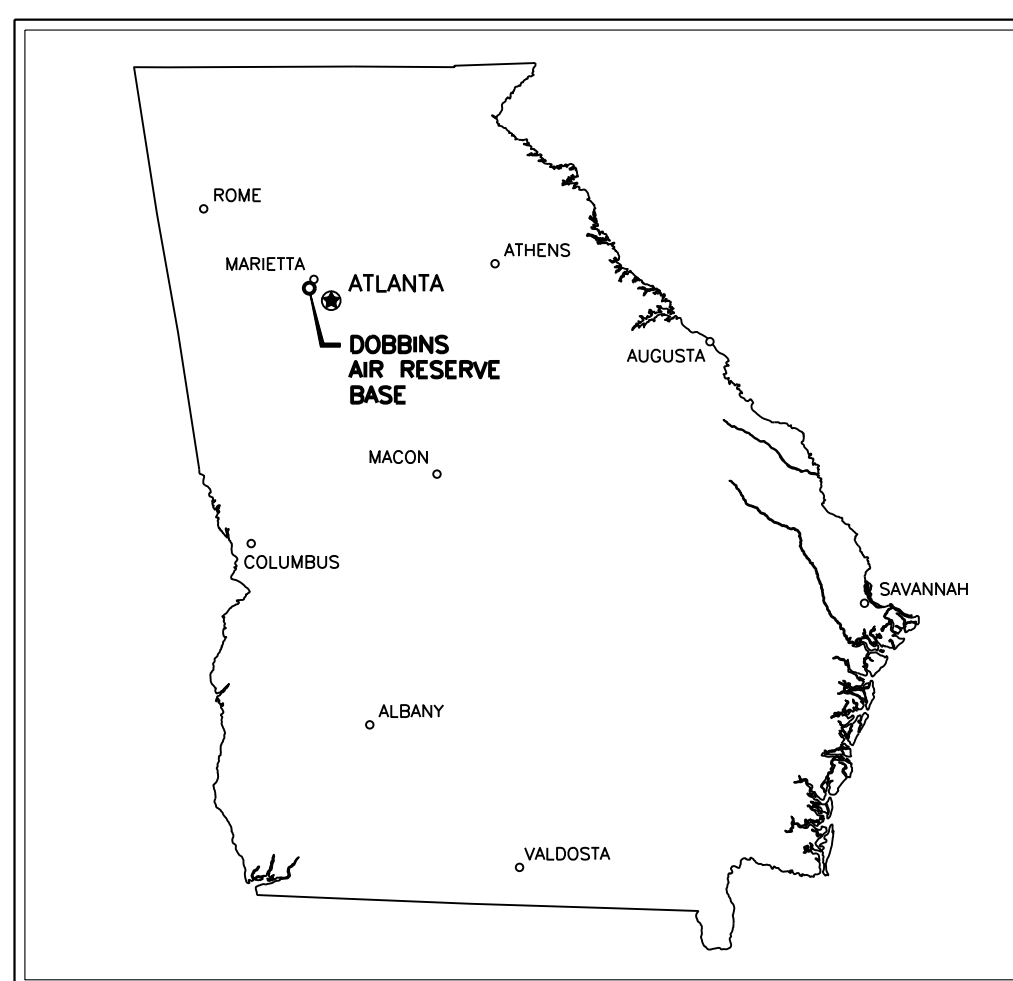


James R. Warner, P.E.  
P.E. No. U32950, GA

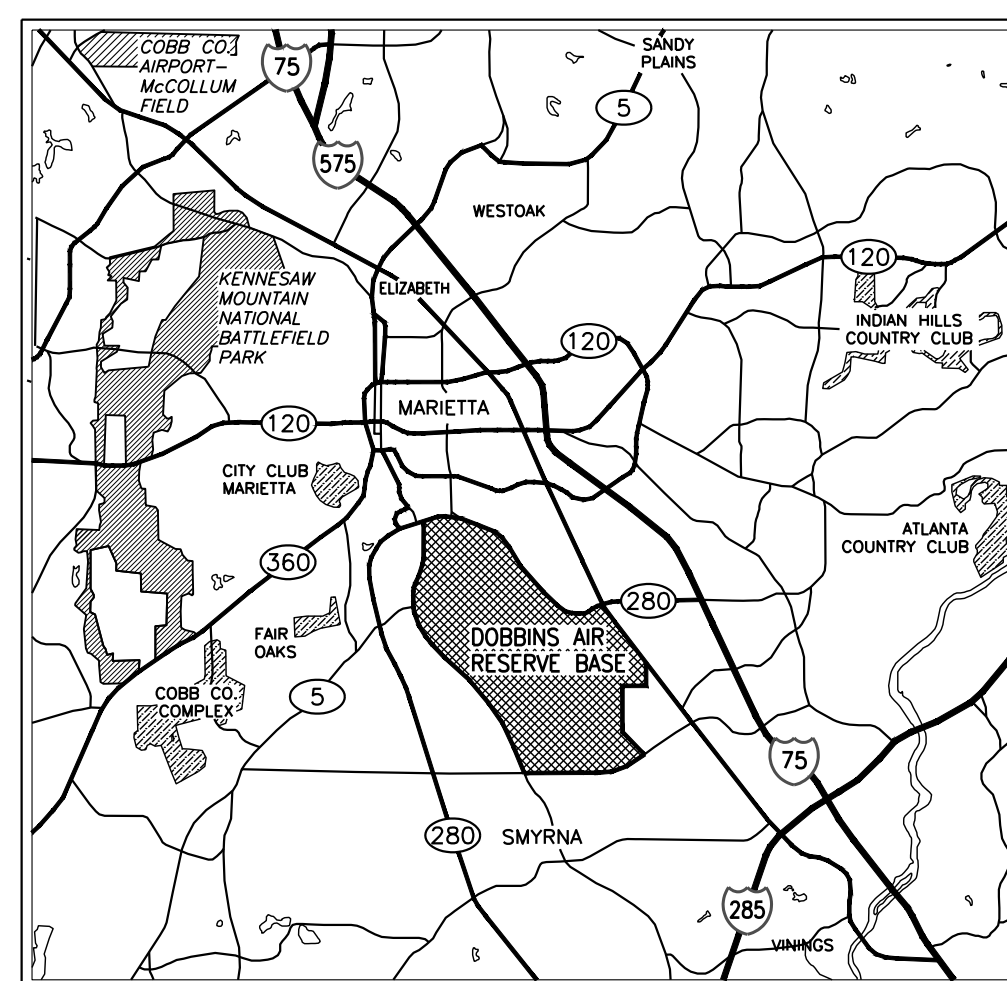


# Dobbins Airfield Storm Water Phase 2

Dobbins Air Reserve Base, GA  
USACE Louisville District  
Project #: FGWB-04-0014P2A/B  
P2#: 470584  
FY2019



STATE OF GEORGIA  
NO SCALE

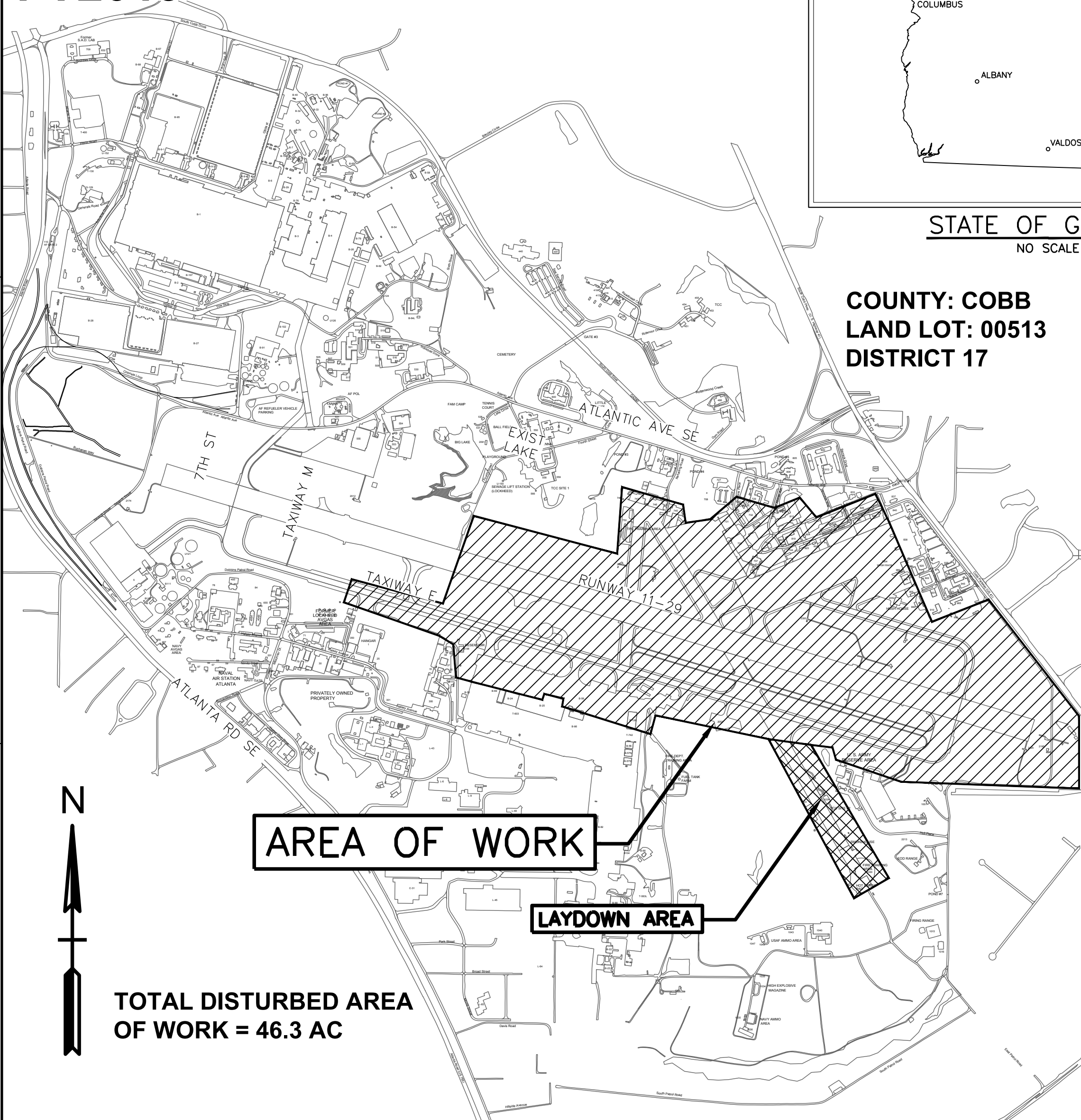


VICINITY MAP  
NO SCALE

COUNTY: COBB  
LAND LOT: 00513  
DISTRICT 17

SITE PLAN PROJECT NUMBER: SPR-2019-00121

APPROVAL STAMPS



TOTAL DISTURBED AREA  
OF WORK = 46.3 AC

AREA OF WORK

LAYDOWN AREA

24 HR. EROSION CONTROL CONTACT TO  
BE DETERMINED WITH SELECTION OF  
CONTRACTOR

PROJECT LOCATION MAP  
SCALE: N.T.S.

DRAWING INDEX	
SHEET	DESCRIPTION
<b>GENERAL</b>	
G-001	COVER SHEET AND DRAWING INDEX
G-002	HAUL ROUTE PLAN
G-003	LEGEND & ABBREVIATIONS
G-004	GENERAL NOTES
G-005	OVERALL CONSTRUCTION PLAN

DRAWING INDEX	
SHEET	DESCRIPTION
<b>CIVIL</b>	
C-100	STORM DRAINAGE PLAN INDEX MAP
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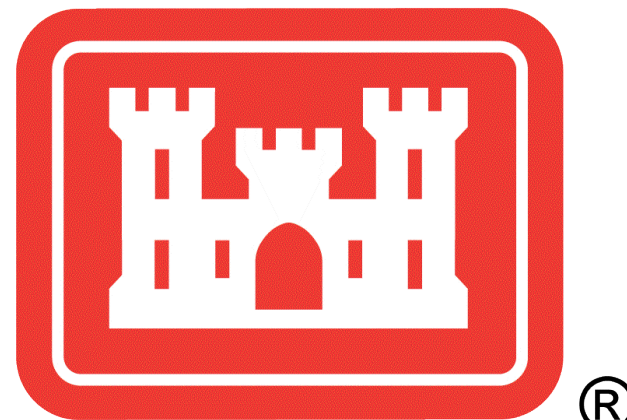
COORDINATION OFFICE/DATE	
94 MSG/CE	94 MSG/CEC
MISSION SUPPORT GROUP COMMANDER	BIO-ENVIRONMENTAL ENGINEER
CHIEF ENGINEERING FLIGHT	BASE CIVIL ENGINEER
COMMUNICATIONS	USING AGENCY
SAFETY OFFICER	ENVIRONMENTAL COORDINATOR
SECURITY POLICE	CHIEF, DESIGN & CONSTRUCTION
FIRE CHIEF	CHIEF OF OPERATIONS

MARK	DESCRIPTION	DATE

ISSUE DATE: 05/20/2019	SOLICITATION NO.:	CONTRACT NO.:	FILE NUMBER:
DESIGNED BY: J. WARNER	CHECKED BY: B. MATTHEWS	SUBMITTED BY: S. BAILEY	FILE NAME: 470584-G-001_CS.dwg
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DOBBINS AIRFIELD STORM WATER SYSTEM PHASE 2  
DOBBINS AIR RESERVE BASE, GEORGIA  
PROJECT NO.: FGWB 04-0014P2A/B  
P2#: 470584  
COVER SHEET AND DRAWING INDEX

SHEET ID  
**G-001**

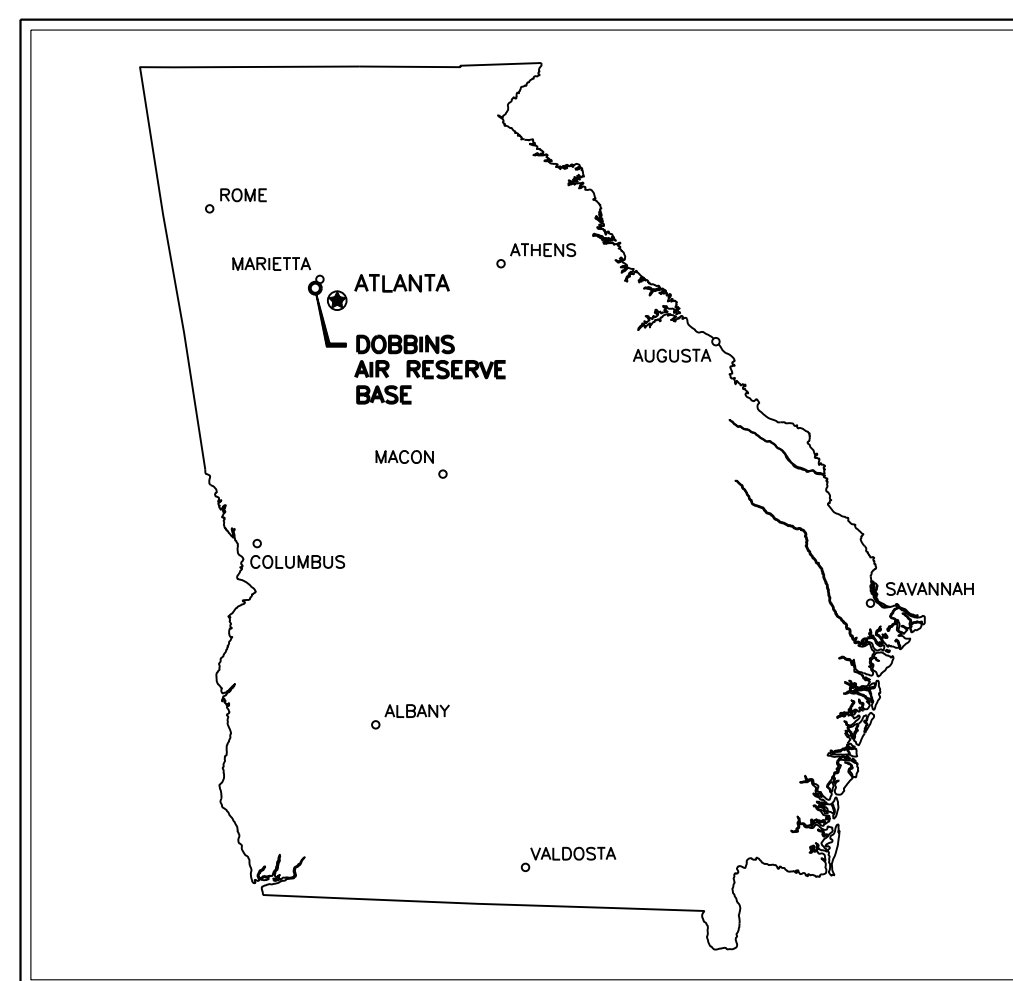


05/20/2019

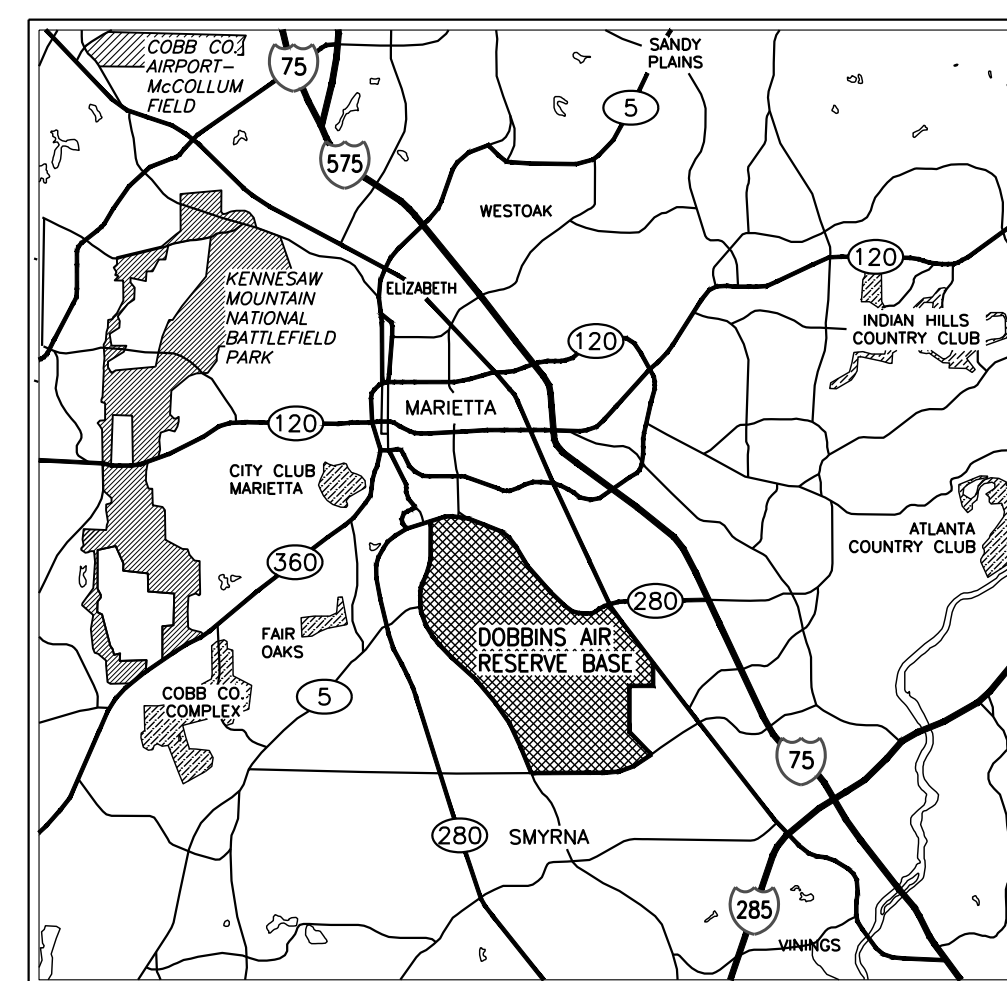
100% Certified Final Submission

# Dobbins Airfield Storm Water Phase 2

Dobbins Air Reserve Base, GA  
 USACE Louisville District  
 Project #: FGWB-04-0014P2A/B  
 P2#: 470584  
 FY2019



STATE OF GEORGIA  
NO SCALE

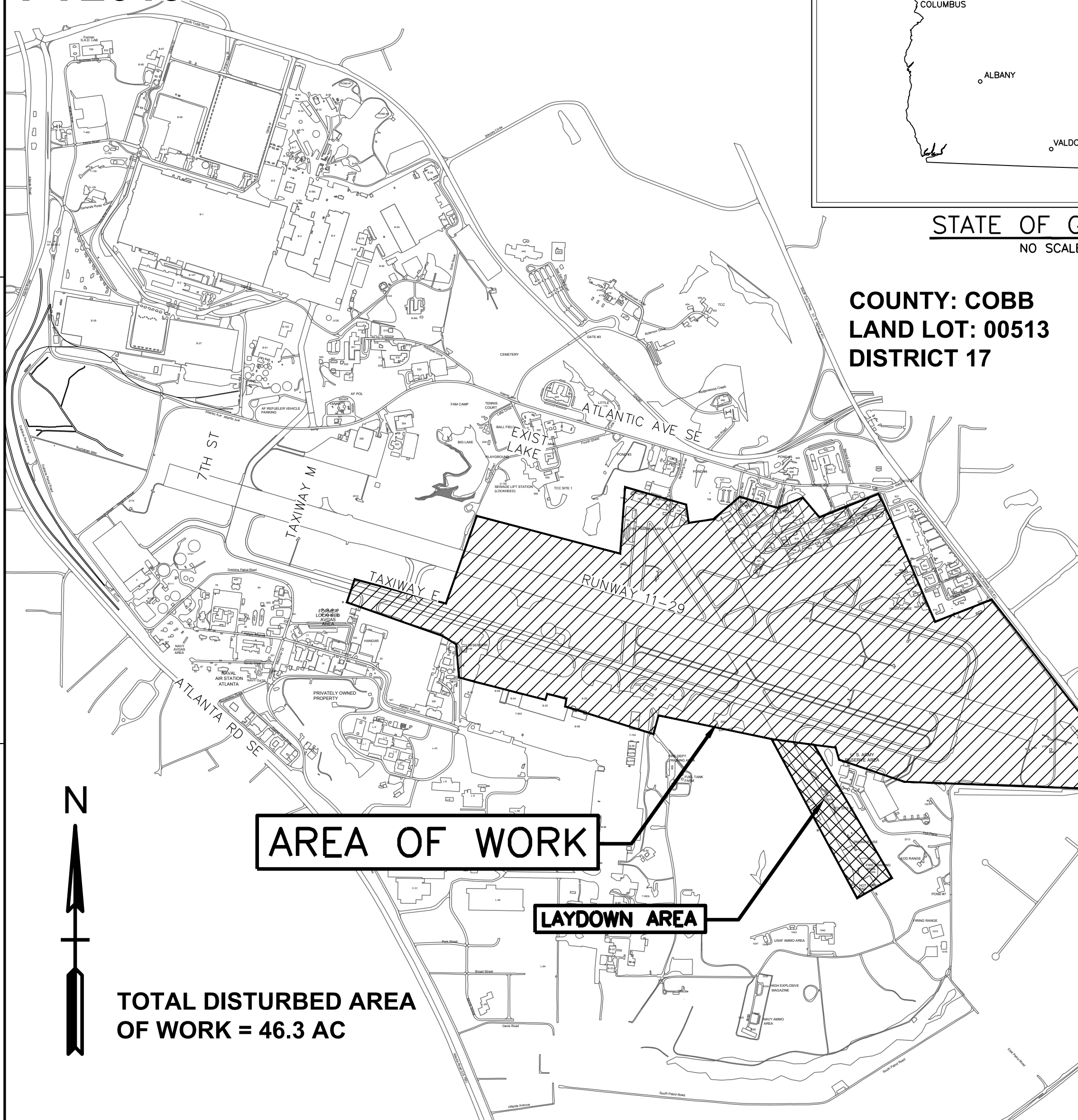


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COUNTY: COBB  
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SITE PLAN PROJECT NUMBER: SPR-2019-00121

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TOTAL DISTURBED AREA OF WORK = 46.3 AC

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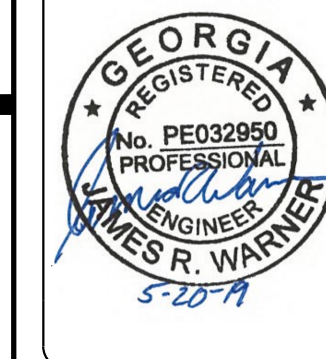
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COORDINATION OFFICE/DATE	
94 MSG/CE	94 MSG/CEC
MISSION SUPPORT GROUP COMMANDER	BIO-ENVIRONMENTAL ENGINEER
CHIEF ENGINEERING FLIGHT	BASE CIVIL ENGINEER
COMMUNICATIONS	USING AGENCY
SAFETY OFFICER	ENVIRONMENTAL COORDINATOR
SECURITY POLICE	CHIEF, DESIGN & CONSTRUCTION
FIRE CHIEF	CHIEF OF OPERATIONS



James R. Warner, P.E.  
P.E. No. U32950, GA



ISSUE DATE:	SOLUTION NO.:	CONTRACT NO.:	FILE NUMBER:	FILE NAME:
05/20/2019				470584-G-001_CS.dwg

DESIGNED BY: J. WARNER  
 CHECKED BY: B. MATTHEWS  
 SUBMITTED BY: S. BAILEY  
 SIZE: 11x17

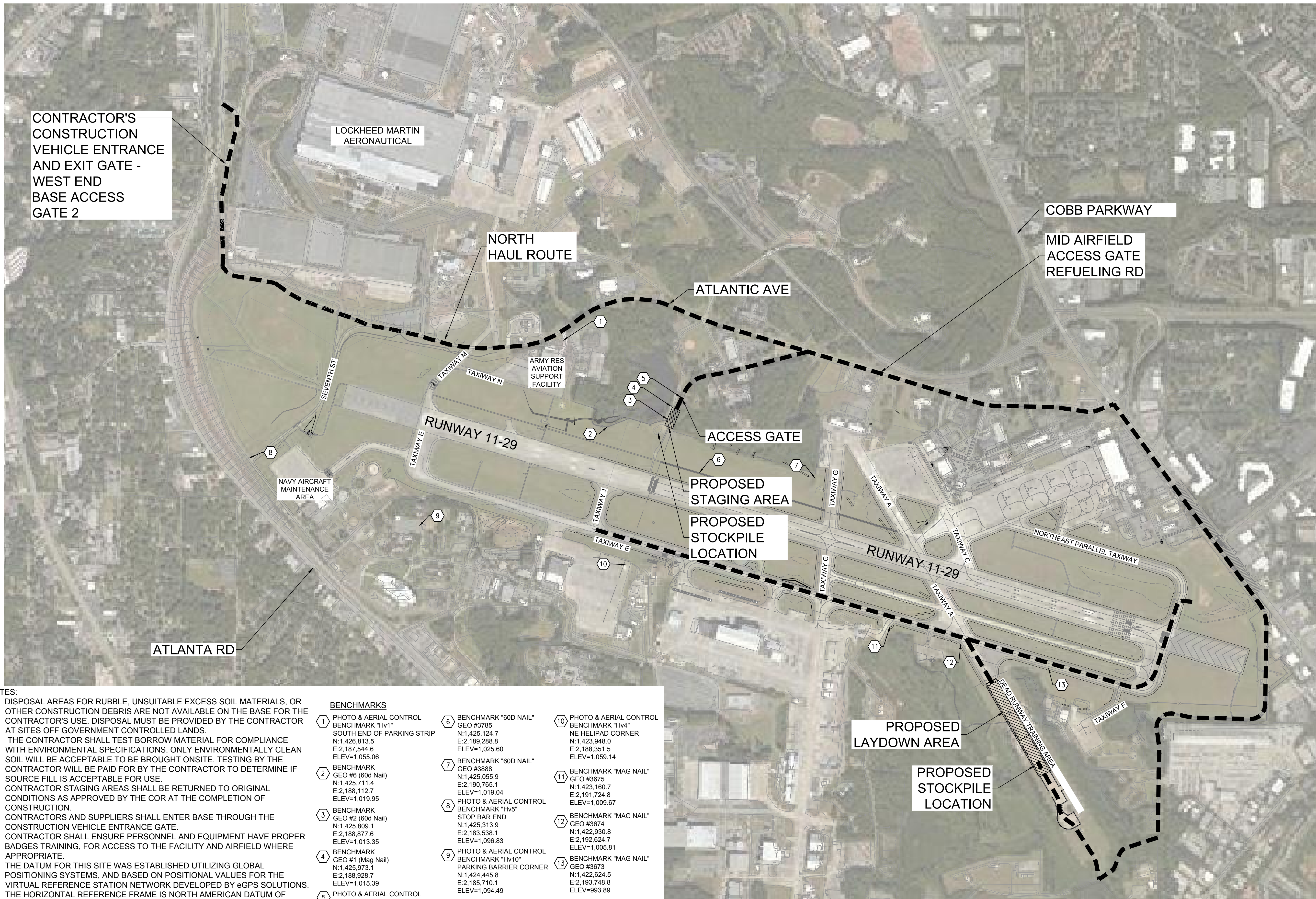
U.S. ARMY CORPS OF ENGINEERS  
 LOUISVILLE DISTRICT  
 LOUISVILLE, KENTUCKY 40210-0059

TETRA TECH, INC.  
 5800 PARSONS AVE  
 LOUISVILLE, KY 40228  
 TEL: (502) 254-2000  
 WWW.TETRA-TECH.COM

DOBBINS AIRFIELD STORM WATER SYSTEM PHASE 2  
 DOBBINS AIR RESERVE BASE, GEORGIA  
 PROJECT NO.: FGWB 04-0014P2A/B  
 P2#: 470584

COVER SHEET AND DRAWING INDEX

SHEET ID  
**G-001**



CONTRACTOR'S  
CONSTRUCTION  
VEHICLE ENTRANCE  
AND EXIT GATE -  
WEST END  
BASE ACCESS  
GATE 2

LOCKHEED MARTIN  
AERONAUTICAL

NORTH  
HAUL ROUTE

ATLANTIC AVE

COBB PARKWAY

MID AIRFIELD  
ACCESS GATE  
REFUELING RD

ARMY RES  
AVIATION  
SUPPORT  
FACILITY

ACCESS GATE

PROPOSED  
STAGING AREA  
PROPOSED  
STOCKPILE  
LOCATION

RUNWAY 11-29

RUNWAY 11-29

NAVY AIRCRAFT  
MAINTENANCE  
AREA

NORTHEAST PARALLEL TAXIWAY

ATLANTA RD

PROPOSED  
LAYDOWN AREA

PROPOSED  
STOCKPILE  
LOCATION

DEAD RUNWAY TRAINING AREA

NOTES:

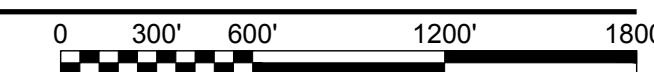
- DISPOSAL AREAS FOR RUBBLE, UNSUITABLE EXCESS SOIL MATERIALS, OR OTHER CONSTRUCTION DEBRIS ARE NOT AVAILABLE ON THE BASE FOR THE CONTRACTOR'S USE. DISPOSAL MUST BE PROVIDED BY THE CONTRACTOR AT SITES OFF GOVERNMENT CONTROLLED LANDS.
- THE CONTRACTOR SHALL TEST BORROW MATERIAL FOR COMPLIANCE WITH ENVIRONMENTAL SPECIFICATIONS. ONLY ENVIRONMENTALLY CLEAN SOIL WILL BE ACCEPTABLE TO BE BROUGHT ONSITE. TESTING BY THE CONTRACTOR WILL BE PAID FOR BY THE CONTRACTOR TO DETERMINE IF SOURCE FILL IS ACCEPTABLE FOR USE.
- CONTRACTOR STAGING AREAS SHALL BE RETURNED TO ORIGINAL CONDITIONS AS APPROVED BY THE COR AT THE COMPLETION OF CONSTRUCTION.
- CONTRACTORS AND SUPPLIERS SHALL ENTER BASE THROUGH THE CONSTRUCTION VEHICLE ENTRANCE GATE.
- CONTRACTOR SHALL ENSURE PERSONNEL AND EQUIPMENT HAVE PROPER BADGES TRAINING, FOR ACCESS TO THE FACILITY AND AIRFIELD WHERE APPROPRIATE.
- THE DATUM FOR THIS SITE WAS ESTABLISHED UTILIZING GLOBAL POSITIONING SYSTEMS, AND BASED ON POSITIONAL VALUES FOR THE VIRTUAL REFERENCE STATION NETWORK DEVELOPED BY eGPS SOLUTIONS. THE HORIZONTAL REFERENCE FRAME IS NORTH AMERICAN DATUM OF 1983(2011)-STATE PLANE COORDINATE SYSTEM OF GEORGIA-WEST ZONE. THE VERTICAL REFERENCE FRAME IS NORTH AMERICAN VERTICAL DATUM OF 1988. ANY DIRECTIONS OR DIMENSIONS SHOWN ARE A RECTANGULAR, GROUND LEVEL PROJECTION OF THE STATE PLANE COORDINATE SYSTEM.

BENCHMARKS

- |  |   |  |
|--|---|--|
| 1 PHOTO & AERIAL CONTROL BENCHMARK "Hv1" SOUTH END OF PARKING STRIP<br>N:1,426,813.5<br>E:2,187,544.6<br>ELEV=1,055.06 | 6 BENCHMARK "60D NAIL" GEO #3785<br>N:1,425,124.7<br>E:2,189,288.8<br>ELEV=1,025.60                                 | 10 PHOTO & AERIAL CONTROL BENCHMARK "Hv4" NE HELIPAD CORNER<br>N:1,423,948.0<br>E:2,188,351.5<br>ELEV=1,059.14 |
| 2 BENCHMARK GEO #6 (60d Nail)<br>N:1,425,711.4<br>E:2,188,112.7<br>ELEV=1,019.95                                       | 7 BENCHMARK "60D NAIL" GEO #3888<br>N:1,425,055.9<br>E:2,190,705.1<br>ELEV=1,019.04                                 | 11 BENCHMARK "MAG NAIL" GEO #3675<br>N:1,423,160.7<br>E:2,191,724.8<br>ELEV=1,009.67                           |
| 3 BENCHMARK GEO #2 (60d Nail)<br>N:1,425,809.1<br>E:2,188,877.6<br>ELEV=1,013.35                                       | 8 PHOTO & AERIAL CONTROL BENCHMARK "Hv5" STOP BAR END<br>N:1,425,313.9<br>E:2,183,538.1<br>ELEV=1,096.83            | 12 BENCHMARK "MAG NAIL" GEO #3674<br>N:1,422,930.8<br>E:2,192,624.7<br>ELEV=1,005.81                           |
| 4 BENCHMARK GEO #1 (Mag Nail)<br>N:1,425,973.1<br>E:2,188,928.7<br>ELEV=1,015.39                                       | 9 PHOTO & AERIAL CONTROL BENCHMARK "Hv10" PARKING BARRIER CORNER<br>N:1,424,445.8<br>E:2,185,710.1<br>ELEV=1,094.49 | 13 BENCHMARK "MAG NAIL" GEO #3673<br>N:1,422,624.5<br>E:2,193,748.8<br>ELEV=993.89                             |
| 5 PHOTO & AERIAL CONTROL BENCHMARK "Hv1" TOP OF WALL CORNER<br>N:1,426,089.2<br>E:2,189,051.4<br>ELEV=1,000.99         |   |  |

HAUL ROUTE PLAN

SCALE: 1" = 600'



US Army Corps of Engineers  
Louisville District

James R. Warner, P.E.  
P.E. No. 032950, GA

REGISTERED PROFESSIONAL ENGINEER  
No. PE032950  
JAMES R. WARNER  
5-20-14

MARK	DESCRIPTION	DATE

DESIGNED BY: J. WARNER	ISSUE DATE: 05/20/2019
CHECKED BY: S. BAILEY	SOLICITATION NO.:
SUBMITTED BY: ESA	CONTRACT NO.:
FILE NAME: 470564-G-002_GI.dwg	FILE NUMBER:
ANSI:	

U.S. ARMY CORPS OF ENGINEERS  
LOUISVILLE DISTRICT  
LOUISVILLE, KENTUCKY 40210-0059

TETRA TECH, INC.  
Louisville, Kentucky 40202  
P.O. Box 248-4098  
www.tetra-tech.com

POND

DOBBINS AIRFIELD STORM WATER SYSTEM PHASE 2  
DOBBINS AIR RESERVE BASE, GEORGIA  
PROJECT NO.: FGWB 04-0014P2A/B  
P#: 470564

HAUL ROUTE PLAN

SHEET ID  
G-002

ABBREVIATIONS

Ac	ACRE	ID	INSIDE DIAMETER	UE	UNDERGROUND ELECTRICAL
AC	ASBESTOS CEMENT	IE	INVERT ELEVATION	UNK	UNKNOWN
AGGR	AGGREGATE	IP	IRON PIN	UNO	UNLESS NOTED OTHERWISE ON DRAWINGS
ALUM	ALUMINUM	IPF	IRON PIN FOUND	VC	VERTICAL CURVE
ASPH	ASPHALT CEMENT	IPS	IRON PIN SET	VCP	VITRIFIED CLAY PIPE
ASSY	ASSEMBLY	IW	INDUSTRIAL WASTE	V/PG	VACUUM PRESSURE GAUGE
B	BACKWASH	JB	JUNCTION BOX	W	WEST
BC	BACK OF CURB	L	LENGTH	W/	WITH
BCCMP	BITUMINOUS COATED CORRUGATED METAL PIPE	LF	LINEAR FEET or LINEAR FOOT	WD	WIDE
BE	BOTTOM ELEVATION	LOD	LIMITS OF DISTURBANCE	WS	WATER SURFACE
BITUM	BITUMINOUS	LP	LOW POINT	WWF	WELDED WIRE FABRIC
BL	BASELINE	MAX	MAXIMUM		
BLDG	BUILDING	MECH	MECHANICAL		
BLV	BALL VALVE	MEG	MATCH EXISTING GRADE		
BM	BENCHMARK	MES	MITERED END SECTION		
BV	BUTTERFLY VALVE	MH	MANHOLE		
BW	BACK OF WALL	MIN	MINIMUM		
B/WALL	BOTTOM OF WALL	MJ	MECHANICAL JOINT		
C	CHORD	MON	MONUMENT		
CA	COMPRESSED AIR	MTR	METER		
CATVo	CABLE TELEVISION (OVERHEAD)	M/U	MAKE-UP		
CATVu	CABLE TELEVISION (UNDERGROUND)	N	NORTH		
CB	CATCH BASIN	N/A	NOT APPLICABLE		
CC	CENTER TO CENTER	NaOCL	SODIUM HYPOCHLORITE SOLUTION		
CF	CUBIC FEET	NG	NATURAL GAS		
C&G	CURB AND GUTTER	NIC	NOT IN CONTRACT		
Ch	CHORD LENGTH	NIG	NITROGEN GAS		
CH	CHEMICAL TREATMENT	No	NUMBER		
CISP	CAST IRON SOIL PIPE	NONRCP	NON-REINFORCED CONCRETE PIPE		
CL	CENTERLINE	NTS	NOT TO SCALE		
CLR	CLEAR	OC	ON CENTER		
CMP	CORRUGATED METAL PIPE	OD	OUTSIDE DIAMETER		
CMU	CONCRETE MASONRY UNIT	OHPL	OVERHEAD POWER LINE		
CO	CLEANOUT	PC	POINT OF CURVE		
COL	COLUMN LINE	PCC	PORTLAND CEMENT CONCRETE		
CONC	CONCRETE	PD	POSITIVE DISPLACEMENT		
COND	CONDENSATE	PE	POLYETHYLENE		
CONN	CONNECTION	PF	POINT OF FROG		
CV	CHECK VALVE	1/2PF	1/2 POINT OF FROG		
CY	CUBIC YARDS	PF1	POINT OF FROG INTERSECTION		
D	MAIN DRAIN	PG	PRESSURE GAUGE		
DB	DITCH BOTTOM	PI	POINT OF INTERSECTION		
DE	DEPTH	PIV	POST INDICATOR VALVE		
DI	DROP INLET	PL	PROPERTY LINE		
DIA	DIAMETER	PROP	PROPOSED		
DIP	DUCTILE IRON PIPE	PS	POINT OF SWITCH		
DW	DOMESTIC WATER	PSF	POUNDS PER SQUARE FOOT (or FEET)		
DWCB	DOUBLE WALL CATCH BASIN	PT	POINT OF TANGENCY		
DWG	DRAWING	PSI	POUNDS PER SQUARE INCH		
E	EAST or EASEMENT	PVC	POINT OF VERTICAL CURVATURE or POLYVINYLCHLORIDE PIPE		
Eo	ELECTRICAL CABLE (OVERHEAD)	PVI	POINT OF VERTICAL INTERSECTION		
Eu	ELECTRICAL CABLE (UNDERGROUND)	PVMT	PAVEMENT		
EF	EACH FACE	PVT	POINT OF VERTICAL INTERSECTION		
EL	ELEVATION	PW	POTABLE WATER		
ELEV	ELEVATION	R	RADIUS		
EMH	ELECTRICAL MANHOLE	RCBC	REINFORCED CONCRETE BOX CULVERT		
EOP	EDGE OF PAVEMENT	RCP	REINFORCED CONCRETE PIPE		
EX	EXISTING	RED	REDUCER		
EXIST	EXISTING	REINF	REINFORCEMENT		
EXP	EXPANSION	ROW	RIGHT OF WAY		
EXT	EXTERIOR	ROWS	REVERSE OSMOSIS WATER SUPPLY		
F	FILTER RETURN	RR	RAILROAD (COMPANY)		
FES	FLARED END SECTION	RRT	RAILROAD TRACK STRUCTURE		
FF	FINISHED FLOOR	RW	RAW WATER		
FH	FIRE HYDRANT	R/W	RIGHT OF WAY		
FIN	FINISHED	S	SOUTH or SLOPE		
FL	FLOOR DRAIN	SD	STORM DRAIN or STORM SEWER		
FLW	FLOWLINE	SH	SAFETY HEADWALL		
FM	FORCE MAIN	SHT	SHEET		
FOD	FOREIGN OBJECTS AND DEBRIS	SS	SANITARY SEWER		
FP	FIRE PROTECTION	SSCO	SANITARY SEWER CLEAN OUT		
FS	FLOW SWITCH	SSE	SANITARY SEWER EASEMENT		
FT	FEET or FOOT	SSFM	SANITARY SEWERAGE FORCE MAIN		
FW	FIRE WATER	SSMH	SANITARY SEWER MANHOLE		
GAL	GALLON	ST	STORM SEWER		
GALV	GALVANIZED	STA	STATION		
GE	GUTTER ELEVATION	STM	STEAM		
GLV	GLOBE VALVE	STMH	STORM SEWER MANHOLE		
GP	GUARD POST	SWCB	SINGLE WING CATCH BASIN		
GPM	GALLONS PER MINUTE	T	TANGENT		
GS	GALVANIZED STEEL	To	TELEPHONE (OVERHEAD)		
GV	GATE VALVE	Tu	TELEPHONE (UNDERGROUND)		
HDCP	HANDICAPPED	TBM	TEMPORARY BENCHMARK		
HDPE	HIGH DENSITY POLYETHYLENE PIPE	TC	TOP OF CURB ELEVATION		
HDWL	HEADWALL	TD	TRENCH DRAIN		
HG	HYDROGEN GAS	TE	TOP ELEVATION		
HGL	HYDRAULIC GRADE LINE	TEL	TELEPHONE CABLE		
HP	HIGH POINT	TFTG	TOP OF FOOTING		
HTW	HIGH TEMPERATURE WATER	TG	TOP OF GRATE ELEVATION		
HW	HOT WATER	TH	THICK		
HWR	HIGH TEMPERATURE, HIGH PRESSURE WATER RETURN	THK	THICKNESS		
HWS	HIGH TEMPERATURE, HIGH PRESSURE WATER SUPPLY	THREL	THROAT ELEVATION		
		TP	TOP OF PAVEMENT ELEVATION		
		TS	TOP OF SLAB ELEVATION		
		TW	TOP OF WALL ELEVATION		
		T/WALL	TOP OF WALL		
		TYP	TYPICAL		

EXISTING CONDITIONS LEGEND

	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	CHAINLINK FENCE
	EXISTING STORM PIPE
	EXISTING SPOT ELEVATION
	EXISTING DROP INLET
	STORM MANHOLE
	FIRE HYDRANT
	SANITARY SEWER HEADWALL
	TELEPHONE MANHOLE
	BOLLARD
	COMPUTED POINT
	CHAIN LINK FENCE
	LIGHT POLE
	GUY WIRE
	POWER POLE
	TELEPHONE BOX
	SIGN
	AIRFIELD LIGHTING
	ILS CHECKPOINT
	EXISTING UNDERGROUND COMM
	EXISTING SANITARY SEWER LINE
	EXISTING WATER LINE
	EXISTING GAS LINE
	EXISTING FENCE LINE
	EXISTING FLOW LINE OF CONCRETE FLUME
	EXISTING COMMUNICATION LINE
	EXISTING FORCE MAIN LINE
	EXISTING UNDERGROUND ELEC
	EXISTING UNDERGROUND AIR LINE
	EXISTING UNDERGROUND INDUSTRIAL WASTE LINE
	EXISTING STORM DRAINAGE
	EXISTING FIBER OPTIC
	EXISTING WETLANDS
	STREAM DELINEATION
	LOCKHEED PROPERTY BOUNDARY
	TAXIWAY CENTERLINE MARKINGS
	TAXIWAY EDGE MARKINGS
	NON-MOVEMENT AREA BOUNDARY MARKING
	EXISTING CONCRETE PAVEMENT

BID OPTION

OPTION 1:  
 NORTHERN AND SOUTHERN EXTENTS OF PROJECT BOUNDARY:  
 ALL WORK, MATERIALS, AND LABOR REQUIRED FOR THE FOLLOWING WORK:  
 (C-103) S-620 TO S-625 INCLUDING HEADWALL, (C-103) LINING PIPE FROM S-610 TO S-600, (C-104) LINE PIPE FROM S-822 TO S-823 TO S-822A, (C-104) LINE PIPE FROM S-1039 TO S-1010, (C-104) LINE PIPE FROM S-1042 TO S-1041 TO S-1040, AND ALL WORK AS SHOWN ON C-402. LINE PIPE FROM (C-122) S-2500 TO (C-124) S-2510, ALL WORK AS SHOWN ON C-124 (INCLUDES CLEANING FOUR 48" RCP THAT STRETCHES FROM C-125 THROUGH C-127), ALL WORK FROM (C-125) S-2620 TO (C-125) S-2680, ALL WORK SHOWN FROM (C-125) S-2700 TO (C-125) S-2760, AND ALL WORK SHOWN ON C-126. INCLUDE ALL EROSION CONTROL AS SHOWN IN DOCUMENTS FOR THIS SCOPE OF WORK. (EEIC 52495)

OPTION 2:  
 JACK-AND-BORE AND INSTALL NEW CONCRETE FLUME:  
 ALL WORK, MATERIALS, AND LABOR REQUIRED WITH THE INSTALL NEW PIPE FROM (C-114) S-1531 TO (C-115) S-1532, FROM (C-115) S-1532 TO (C-115) S-1533, THEN FROM (C-115) S-1533 TO (C-120) S-1534, AND THEN FROM S-1534 TO (C-120) S-1535. INCLUDE LINING OF 157 LF OF 42" CMP PIPE FROM S-1530 TO (C-114) S-1531. ALL WORK, MATERIALS, AND LABOR REQUIRED FOR INSTALLING NEW CONCRETE FLUME A, FLUME B, AND FLUME C. SEE C-106, C-107, AND C-113. INCLUDE ALL EROSION CONTROL AS SHOWN IN DOCUMENTS FOR THIS SCOPE OF WORK. (EEIC 52495)

DEMOLITION LEGEND

	STORM LINE TO BE ABANDONED IN PLACE
	STORM LINE TO BE DEMOLISHED AND REMOVED

GRADING & DRAINAGE LEGEND

	LINED STORM PIPE
	REMOVE AND REPLACE STORM PIPE
	NEW STORM PIPE
	EXISTING STORM PIPE
	JACK AND BORE
	SOD REPLACEMENT
	EXISTING PAVEMENT
	PAVEMENT RESTORATION
	GRATE INLET
	STORM MANHOLE
	HEADWALL
	EXISTING FEATURES ARE SCREENED
	RIP RAP
	REMOVE GRAVEL/ REGRADE AND SOD DISTURBED AREAS
	PROPOSED CONTOUR
	OPTION
	LIMITS OF DISTURBANCE

LEGENDS & ABBREVIATIONS

NO SCALE

US Army Corps of Engineers  
 Louisville District  
 James R. Warner, P.E.  
 P.E. No. 032950, GA

DATE	DESCRIPTION	MARK

ISSUE DATE: 05/20/2019	SOLICITATION NO.:	CONTRACT NO.:	FILE NUMBER:
DESIGNED BY: J. WARNER	CHECKED BY: B. MATTHEWS	SUBMITTED BY: S. BAILEY	FILE NAME: 470954-G-002_GI.dwg

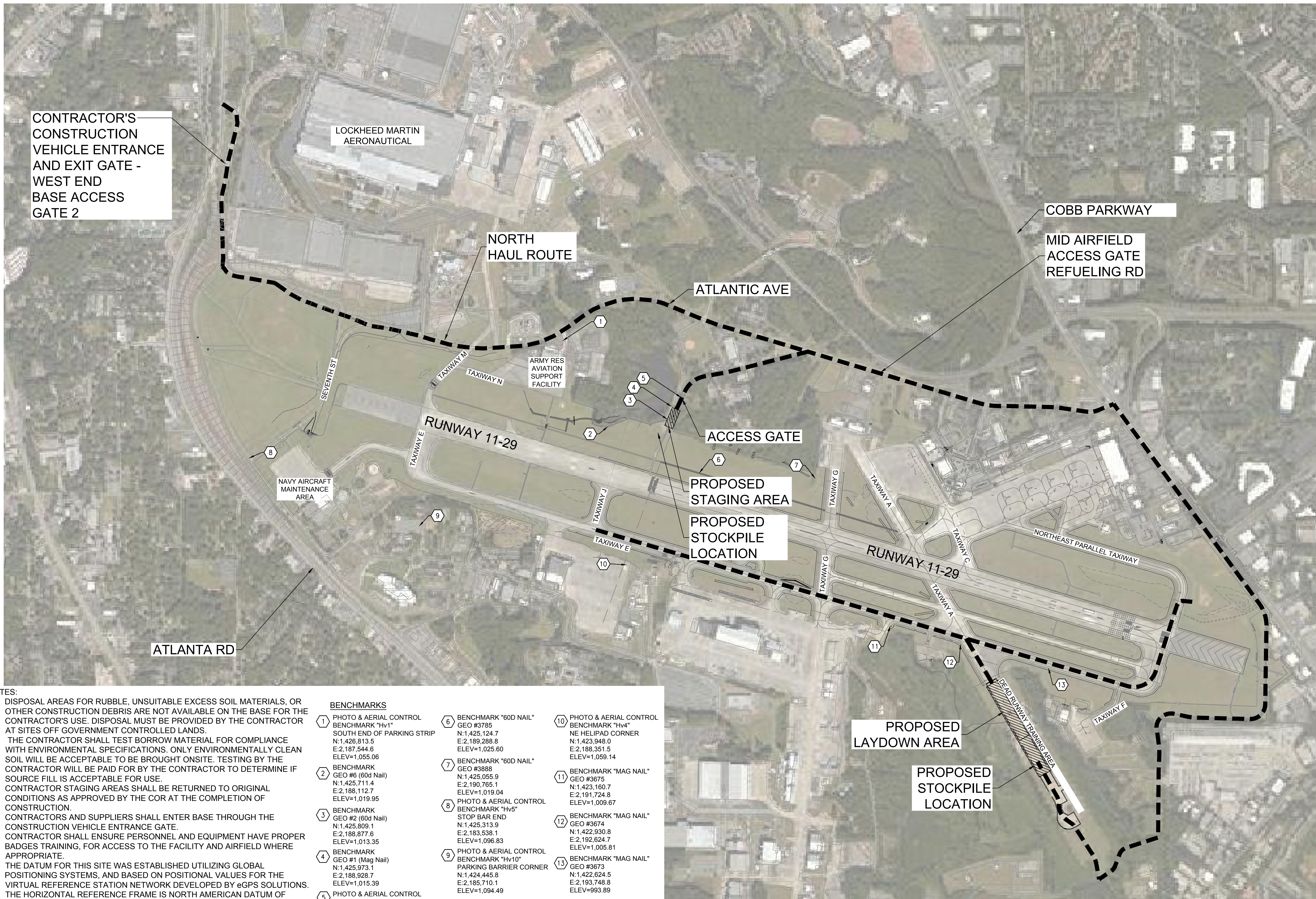
U.S. ARMY CORPS OF ENGINEERS  
 LOUISVILLE DISTRICT  
 LOUISVILLE, KENTUCKY 40210-0059

TETRA TECH, INC.  
 LOUISVILLE, KENTUCKY 40202  
 500 PARKWAY LAKE  
 FRANKFURT, KENTUCKY 40319  
 (502) 344-2000  
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 (502) 344-2009  
 www.tetra-tech.com

DOBBINS AIRFIELD STORM WATER SYSTEM PHASE 2  
 DOBBINS AIR RESERVE BASE, GEORGIA  
 PROJECT NO.: FGWB 04-0014P2A/B  
 P#: 470954

LEGEND & ABBREVIATIONS

SHEET ID  
**G-003**



CONTRACTOR'S  
CONSTRUCTION  
VEHICLE ENTRANCE  
AND EXIT GATE -  
WEST END  
BASE ACCESS  
GATE 2

LOCKHEED MARTIN  
AERONAUTICAL

NORTH  
HAUL ROUTE

ATLANTIC AVE

COBB PARKWAY

MID AIRFIELD  
ACCESS GATE  
REFUELING RD

ARMY RES  
AVIATION  
SUPPORT  
FACILITY

ACCESS GATE

PROPOSED  
STAGING AREA  
PROPOSED  
STOCKPILE  
LOCATION

RUNWAY 11-29

NORTHEAST PARALLEL TAXIWAY

RUNWAY 11-29

ATLANTA RD

PROPOSED  
LAYDOWN AREA

PROPOSED  
STOCKPILE  
LOCATION

DEAD RUNWAY TRAINING AREA

NOTES:

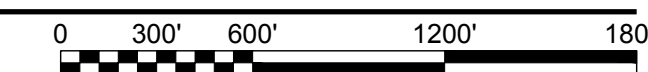
- DISPOSAL AREAS FOR RUBBLE, UNSUITABLE EXCESS SOIL MATERIALS, OR OTHER CONSTRUCTION DEBRIS ARE NOT AVAILABLE ON THE BASE FOR THE CONTRACTOR'S USE. DISPOSAL MUST BE PROVIDED BY THE CONTRACTOR AT SITES OFF GOVERNMENT CONTROLLED LANDS.
- THE CONTRACTOR SHALL TEST BORROW MATERIAL FOR COMPLIANCE WITH ENVIRONMENTAL SPECIFICATIONS. ONLY ENVIRONMENTALLY CLEAN SOIL WILL BE ACCEPTABLE TO BE BROUGHT ONSITE. TESTING BY THE CONTRACTOR WILL BE PAID FOR BY THE CONTRACTOR TO DETERMINE IF SOURCE FILL IS ACCEPTABLE FOR USE.
- CONTRACTOR STAGING AREAS SHALL BE RETURNED TO ORIGINAL CONDITIONS AS APPROVED BY THE COR AT THE COMPLETION OF CONSTRUCTION.
- CONTRACTORS AND SUPPLIERS SHALL ENTER BASE THROUGH THE CONSTRUCTION VEHICLE ENTRANCE GATE.
- CONTRACTOR SHALL ENSURE PERSONNEL AND EQUIPMENT HAVE PROPER BADGES TRAINING, FOR ACCESS TO THE FACILITY AND AIRFIELD WHERE APPROPRIATE.
- THE DATUM FOR THIS SITE WAS ESTABLISHED UTILIZING GLOBAL POSITIONING SYSTEMS, AND BASED ON POSITIONAL VALUES FOR THE VIRTUAL REFERENCE STATION NETWORK DEVELOPED BY eGPS SOLUTIONS. THE HORIZONTAL REFERENCE FRAME IS NORTH AMERICAN DATUM OF 1983(2011)-STATE PLANE COORDINATE SYSTEM OF GEORGIA-WEST ZONE. THE VERTICAL REFERENCE FRAME IS NORTH AMERICAN VERTICAL DATUM OF 1988. ANY DIRECTIONS OR DIMENSIONS SHOWN ARE A RECTANGULAR, GROUND LEVEL PROJECTION OF THE STATE PLANE COORDINATE SYSTEM.

BENCHMARKS

- |  |   |  |
|--|---|--|
| 1 PHOTO & AERIAL CONTROL BENCHMARK "Hv1" SOUTH END OF PARKING STRIP<br>N:1,426,813.5<br>E:2,187,544.6<br>ELEV=1,055.06 | 6 BENCHMARK "60D NAIL" GEO #3785<br>N:1,425,124.7<br>E:2,189,288.8<br>ELEV=1,025.60                                 | 10 PHOTO & AERIAL CONTROL BENCHMARK "Hv4" NE HELIPAD CORNER<br>N:1,423,948.0<br>E:2,188,351.5<br>ELEV=1,059.14 |
| 2 BENCHMARK GEO #6 (60d Nail)<br>N:1,425,711.4<br>E:2,188,112.7<br>ELEV=1,019.95                                       | 7 BENCHMARK "60D NAIL" GEO #3888<br>N:1,425,055.9<br>E:2,190,705.1<br>ELEV=1,019.04                                 | 11 BENCHMARK "MAG NAIL" GEO #3675<br>N:1,423,160.7<br>E:2,191,724.8<br>ELEV=1,009.67                           |
| 3 BENCHMARK GEO #2 (60d Nail)<br>N:1,425,809.1<br>E:2,188,877.6<br>ELEV=1,013.35                                       | 8 PHOTO & AERIAL CONTROL BENCHMARK "Hv5" STOP BAR END<br>N:1,425,313.9<br>E:2,183,538.1<br>ELEV=1,096.83            | 12 BENCHMARK "MAG NAIL" GEO #3674<br>N:1,422,930.8<br>E:2,192,624.7<br>ELEV=1,005.81                           |
| 4 BENCHMARK GEO #1 (Mag Nail)<br>N:1,425,973.1<br>E:2,188,928.7<br>ELEV=1,015.39                                       | 9 PHOTO & AERIAL CONTROL BENCHMARK "Hv10" PARKING BARRIER CORNER<br>N:1,424,445.8<br>E:2,185,710.1<br>ELEV=1,094.49 | 13 BENCHMARK "MAG NAIL" GEO #3673<br>N:1,422,624.5<br>E:2,193,748.8<br>ELEV=993.89                             |
| 5 PHOTO & AERIAL CONTROL BENCHMARK "Hv1" TOP OF WALL CORNER<br>N:1,426,089.2<br>E:2,189,051.4<br>ELEV=1,000.99         |   |  |

HAUL ROUTE PLAN

SCALE: 1" = 600'



US Army Corps of Engineers  
Louisville District

James R. Warner, P.E.  
P.E. No. 032950, GA

REGISTERED PROFESSIONAL ENGINEER  
No. PE032950  
JAMES R. WARNER  
5-20-17

MARK	DESCRIPTION	DATE

DESIGNED BY: J. WARNER	ISSUE DATE: 05/20/2019
CHECKED BY: S. BAILEY	SOLICITATION NO.:
SUBMITTED BY: ESA	CONTRACT NO.:
FILE NAME: 470564-G-002_GI.dwg	FILE NUMBER:
ANSI:	

U.S. ARMY CORPS OF ENGINEERS  
LOUISVILLE DISTRICT  
LOUISVILLE, KENTUCKY 40210-0059

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POND

DOBBINS AIRFIELD STORM WATER SYSTEM PHASE 2  
DOBBINS AIR RESERVE BASE, GEORGIA  
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P#: 470564

HAUL ROUTE PLAN

SHEET ID  
G-002

FILE PATH: O:\PROJECTS\ORLANDO\11652\200-11652-18007\CAD\SHETFILES\470564-G-002\_GI\_PLOTTED\_05/20/2019 BY: MATTHEWS, RUSS

**ABBREVIATIONS**

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	TELEPHONE MANHOLE
	BOLLARD
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	CHAIN LINK FENCE
	LIGHT POLE
	GUY WIRE
	POWER POLE
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	SIGN
	AIRFIELD LIGHTING
	ILS CHECKPOINT
	EXISTING UNDERGROUND COMM
	EXISTING SANITARY SEWER LINE
	EXISTING WATER LINE
	EXISTING GAS LINE
	EXISTING FENCE LINE
	EXISTING FLOW LINE OF CONCRETE FLUME
	EXISTING COMMUNICATION LINE
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**OPTION 1:**  
 NORTHERN AND SOUTHERN EXTENTS OF PROJECT BOUNDARY: ALL WORK, MATERIALS, AND LABOR REQUIRED FOR THE FOLLOWING WORK:  
 (C-103) S-620 TO S-625 INCLUDING HEADWALL, (C-103) LINING PIPE FROM S-610 TO S-600, (C-104) LINE PIPE FROM S-822 TO S-823 TO S-822A, (C-104) LINE PIPE FROM S-1039 TO S-1010, (C-104) LINE PIPE FROM S-1042 TO S-1041 TO S-1040, AND ALL WORK AS SHOWN ON C-402. LINE PIPE FROM (C-122) S-2500 TO (C-124) S-2510, ALL WORK AS SHOWN ON C-124 (INCLUDES CLEANING FOUR 48" RCP THAT STRETCHES FROM C-125 THROUGH C-127), ALL WORK FROM (C-125) S-2620 TO (C-125) S-2680, ALL WORK SHOWN FROM (C-125) S-2700 TO (C-125) S-2760, AND ALL WORK SHOWN ON C-126. INCLUDE ALL EROSION CONTROL AS SHOWN IN DOCUMENTS FOR THIS SCOPE OF WORK. (EEIC 52495)

**OPTION 2:**  
 JACK-AND-BORE AND INSTALL NEW CONCRETE FLUME: ALL WORK, MATERIALS, AND LABOR REQUIRED WITH THE INSTALL NEW PIPE FROM (C-114) S-1531 TO (C-115) S-1532, FROM (C-115) S-1532 TO (C-115) S-1533, THEN FROM (C-115) S-1533 TO (C-120) S-1534, AND THEN FROM S-1534 TO (C-120) S-1535. INCLUDE LINING OF 157 LF OF 42" CMP PIPE FROM S-1530 TO (C-114) S-1531. ALL WORK, MATERIALS, AND LABOR REQUIRED FOR INSTALLING NEW CONCRETE FLUME A, FLUME B, AND FLUME C. SEE C-106, C-107, AND C-113. INCLUDE ALL EROSION CONTROL AS SHOWN IN DOCUMENTS FOR THIS SCOPE OF WORK. (EEIC 52495)

**DEMOLITION LEGEND**

	STORM LINE TO BE ABANDONED IN PLACE
	STORM LINE TO BE DEMOLISHED AND REMOVED

**GRADING & DRAINAGE LEGEND**

	LINED STORM PIPE
	REMOVE AND REPLACE STORM PIPE
	NEW STORM PIPE
	EXISTING STORM PIPE
	JACK AND BORE
	SOD REPLACEMENT
	EXISTING PAVEMENT
	PAVEMENT RESTORATION
	GRATE INLET
	STORM MANHOLE
	HEADWALL
	EXISTING FEATURES ARE SCREENED
	RIP RAP
	REMOVE GRAVEL/ REGRADE AND SOD DISTURBED AREAS
	PROPOSED CONTOUR
	OPTION
	LIMITS OF DISTURBANCE

**LEGENDS & ABBREVIATIONS**

NO SCALE

US Army Corps of Engineers  
 Louisville District  
 James R. Warner, P.E.  
 P.E. No. 032950, GA

JAMES R. WARNER  
 5-20-19

DATE	DESCRIPTION	MARK

ISSUE DATE: 05/20/2019	SOLICITATION NO.:	CONTRACT NO.:	FILE NUMBER:
DESIGNED BY: J. WARNER	CHECKED BY: B. MATTHEWS	FILE NAME: 470954-G-002_GI.dwg	ANSI D:
PROJECT NO.: FGWB 04-0014P2A/B	P#: 470954		

**U.S. ARMY CORPS OF ENGINEERS**  
 LOUISVILLE DISTRICT  
 LOUISVILLE, KENTUCKY 40210-0059

**POND**  
 TETRA TECH, INC.  
 5800 PARSONS LANE  
 LOUISVILLE, KENTUCKY 40202  
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 www.tetra-tech.com

DOBBINS AIRFIELD STORM WATER SYSTEM PHASE 2  
 DOBBINS AIR RESERVE BASE, GEORGIA  
 PROJECT NO.: FGWB 04-0014P2A/B  
 P#: 470954

**LEGEND & ABBREVIATIONS**

SHEET ID  
**G-003**

GENERAL NOTES

- 1. ALL DISTURBED AREAS TO BE ROLLED SODDED WITH BERMUDA SOD (PENNINGTON'S SAHARA OR CHEYENNE) SECURED WITH STAPLES UPON COMPLETION. BROWN TOP MILLET NOT ALLOWED ON OR AROUND AIRFIELD. SOD STAPLES SHALL BE BIODEGRADABLE DESIGNED TO BE SECURE AN RETAIN IN THE SOIL. STAPLES MUST NOT BECOME FOD (FOREIGN OBJECT DEBRIS) AROUND THE AIRFIELD.
2. EXISTING CONDITIONS INFORMATION IS A COMBINATION OF BASE PROVIDED INFORMATION, LOCKHEED MARTIN INFORMATION, SELECT FIELD RUN TOPOGRAPHY AND STORM SEWER ELEVATIONS.
3. NOT ALL UTILITIES ARE SHOWN ON THIS PLAN. THE CONTRACTOR SHALL OBTAIN AN UNDERGROUND UTILITY SURVEY ON DOBBINS PROPERTY USING A PRIVATE UTILITY LOCATING SERVICE PRIOR TO START OF CONSTRUCTION. LOCKHEED MARTIN WILL MARK THEIR OWN UTILITIES. THE CONTRACTOR SHALL SURVEY BOTH UTILITY MARKINGS, REVIEW THE SURVEY AGAINST THE PLANS, AND COORDINATE WITH THE CONTRACTING OFFICER.
4. THE CONTRACTOR SHALL COMPLETE AND FILE AN AF 103 DIG PERMIT AS REFERENCED IN SPECIFICATION 01 01 00, GENERAL REQUIREMENTS. THE CONTRACTOR SHALL ALSO CONTACT THE GEORGIA UTILITIES PROTECTION CENTER AT '811' BEFORE ANY DIGGING.
5. FIELD RUN TOPOGRAPHY AND STORM SEWER ELEVATIONS WERE PROVIDED BY GEO SURVEY LTD, 1660 BARNES MILL ROAD, MARIETTA, GA 30062. PHONE: 770-795-9900
6. GENERAL EXCAVATION SHALL HAVE A MAXIMUM BERM HEIGHT OF 3 FEET. EXTENSIVE EXCAVATION SHALL USE ASSIGNED STOCK PILE AREAS. COORDINATE WITH THE CONTRACTING OFFICER FOR ALL PROPOSED TAXIWAY CLOSURES.
7. THE CONTRACTOR SHALL COORDINATE ALL WORK WITHIN LOCKHEED MARTIN'S PROPERTY. COORDINATE WITH THE CONTRACTING OFFICER FOR POINT OF CONTACT.
8. WETLAND AND STREAM IDENTIFICATION AND LIMITS SHOWN ON THESE PLANS WERE PROVIDED BY DOBBINS AIR RESERVE BASE PER A JURISDICTIONAL DETERMINATION, 2010.
9. THE CONTRACTOR SHALL NOT DISTURB MORE THAN 5 ACRES AT ANY TIME DURING THE CONSTRUCTION PROCESS. ALL DISTURBED AREAS SHALL BE FULLY STABILIZED PRIOR TO MOVING TO NEXT CONSTRUCTION AREA. STOCKPILE AREAS SHOWN ON THE PLAN REPRESENT APPROXIMATELY 400 LF OF TRENCH EXCAVATION FOR THE "A" LINE. CONSTRUCTION SHALL BE PHASED IN 400 LF INCREMENTS AND LIMITED TO THE STOCKPILE AREAS AND CONSTRAINTS PROVIDED ON THE PLANS.
10. SECURITY FORCES MUST BE NOTIFIED 2 WEEKS PRIOR TO ANY AUGMENTATION OF THE FENCE LINE.
11. ALL OPEN CUTS/TRENCHING SHALL BE GRADED TO THE ORIGINAL GRADES UNLESS SHOWN ON THE PLANS TO BE RE-GRADED.
12. CONTRACTOR SHALL PROVIDE FINAL JACKING AND BORING DETAILS TO THE CONTRACTING OFFICER BEFORE CONSTRUCTION. THE PLANS SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION PLANS. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO AVOID DAMAGE TO THE EXISTING SANITARY SEWER LINE AND WILL BE RESPONSIBLE FOR ANY DAMAGE TO IT.
13. CONTRACTOR SHALL PROVIDE DESIGN AND IMPLEMENTATION OF THE MOST ECONOMICAL METHOD OF EXCAVATION IN THE BASE BID TO INCLUDE OPEN CUT OR OPEN CUT WITH SHORING.
14. CONTRACTOR SHALL PROVIDE DESIGN AND IMPLEMENTATION OF DEWATERING METHODS AND INCLUDE IN BASE BID FOR APPROVAL.
15. CONTRACTOR SHALL PROVIDE DESIGN AND IMPLEMENTATION OF SHORING AND BRACING AROUND CRITICAL AREAS SUCH AS RUNWAY AND TAXIWAY EDGES AND INCLUDE IN BASE BID FOR APPROVAL.
16. ALL FLOWABLE FILL SHALL USE GEOFILL (DESIGN BASIS) LD (LOW DENSITY) CELLULAR CONCRETE OR APPROVED EQUAL. ALL PIPES AND STRUCTURES INDICATED TO BE ABANDONED IN PLACE SHALL BE COMPLETELY FILLED WITH FLOWABLE FILL.
17. ALL SODDED/DISTURBED AREAS TO BE FREE OF DELETERIOUS MATERIAL, SCARIFIED, GRADED AS NEEDED FOR POSITIVE DRAINAGE AND FINE GRADED PER THE SPECIFICATIONS PRIOR TO INSTALLATION.
18. SEE EROSION CONTROL PLANS FOR DESIGNATED STOCKPILE AREAS.
19. ALL SOD BASE MATERIAL (DIRT) SHALL BE PLACED AT LEAST ONE INCH BELOW THE EDGE OF ALL PAVEMENT INTERFACES. POSITIVE DRAINAGE FROM PAVED AREAS THROUGH SOD INTERFACE SHALL BE OBTAINED. THERE SHALL BE NO PONDING AT THE INTERFACE UPON COMPLETION OF WORK.
20. ALL STOCKPILE AREAS SHALL HAVE ORANGE TREE PROTECTION FENCE INSTALLED AROUND THEM.

- 21. ALL STAGING AREAS SHALL HAVE BARRICADES WITH LIGHTS. ALL VEHICLES SHALL BE FLAGGED WITH ORANGE & WHITE FLAG AND LIGHT AT ALL TIMES. CONTRACTOR SHALL PLACE NAME ON SIDE OF ALL VEHICLES.
22. ALL PAVEMENT USED BY THE CONTRACTOR SHALL BE MAINTAINED AND REPLACED AS NEEDED TO THE SATISFACTION OF THE BASE AT NO ADDITIONAL COST. INSPECTION WITH BASE ENGINEERING IS REQUIRED AT THE END OF EACH SEGMENT OF STORM SEWER CONSTRUCTION.
23. ALL AREAS NOTED FOR PAVEMENT REPLACEMENT SHALL HAVE BASE MATERIAL REMOVED FULL DEPTH AND REPLACED AND SUBGRADE COMPACTED AND TESTED IN THE PRESENCE OF A BASE REPRESENTATIVE PRIOR TO PLACEMENT OF NEW MATERIAL.
24. SOILS REMOVED FROM SITE MUST BE DISPOSED OF IN A CONSTRUCTION AND DEMOLITION LANDFILL UNLESS ENVIRONMENTALLY CONTAMINATED. NO MANAGEMENT OF CONTAMINATED SOIL IS ANTICIPATED. IF CONTAMINATED SOIL ENCOUNTERED, THE SITE CONTRACTOR SHALL COORDINATE WITH THE COR.

AIRFIELD NOTES

- 1. WHEN AIRFIELD OPERATIONS ARE UNDERWAY, NO WORK IS PERMITTED WITHIN 100' OF THE RUNWAY PAVEMENT EDGE OR TAXIWAY PAVEMENT EDGE.
2. AIRFIELD CLOSURES MUST BE LIMITED TO 4 DAYS AND MUST HAVE A MINIMUM OF 30 DAYS ADVANCED NOTICE. THE CONTRACTOR SHALL COORDINATE WITH THE CONTRACTING OFFICER.
3. UPON AWARD, THE CONTRACTOR SHALL COMPLETE AND FILE A TEMPORARY CONSTRUCTION WAIVER WITH DOBBINS AIR RESERVE BASE AND IT SHALL STAY IN AFFECT AT ALL TIMES. RENEWAL REQUIRED EVERY 30-DAYS. RENEWALS SHALL BE APPLIED FOR IN ADVANCE.
4. UPON AWARD, THE CONTRACTOR SHALL COMPLETE AND FILE FAA WAIVER FORM 7460-1 WITH COPIES PROVIDED TO THE CONTRACTING OFFICER.
5. WORK WITHIN THE C-130 RAMP AREA AND THE TRANSIENT PARKING RAMP AREA REQUIRE COORDINATION WITH THE CONTRACTING OFFICER 60-DAYS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE AND PLACE BARRIERS (AIRPORT LOW PROFILE WATER FILLED BARRICADES WITH LIGHT), WHICH MOVE THE RED SECURITY LINE TO ALLOW ACCESS TO SECURE AREAS. THE CONTRACTOR SHALL PROVIDE A MAP OF THE REQUIRED AREA FOR ACCESS TO THESE SITES FOR APPROVAL.
6. ACCESS TO THE BASE IS RESTRICTED TO THE WEST END COMMERCIAL GATE #2. ACCESS TO THE AIRFIELD IS RESTRICTED TO NAVY AIRCRAFT MAINTENANCE AREA GATE AND THE FOURTH STREET GATE ADJACENT TO THE BIG LAKE SEE HAUL ROUTE PLANS FOR DETAILS.
7. CONTRACTOR SHALL COORDINATE WITH THE CONTRACTING OFFICER AND COMPLY WITH AFI 31-101 AIR FORCE INSTALLATION SECURITY PROGRAM. THE CONTRACTORS RESPONSIBILITY LETTER FOR FREE ZONE REQUIREMENTS SHALL BE PROVIDED AT THE PRE-CONSTRUCTION MEETING.
8. CONTRACTOR SHALL TAKE EVERY OPPORTUNITY TO REDUCE THE POTENTIAL OF FOREIGN OBJECTS AND DEBRIS (FOD) AROUND THE AIRFIELD. AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL CONDUCT A FOD CHECK OF THE CONSTRUCTION AREA AND CLEAN THE AREA WITH A VACUUM SWEEPER. A VACUUM SWEEPER WITH STEEL BRISTLES WILL NOT BE ALLOWED. REMOVAL OF ANY POTENTIAL FOD AT THE END OF EACH WORK DAY SHALL BE REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL FOD FOUND WITHIN THE LIMITS OF CONSTRUCTION.
9. A FOD CHECK MUST BE COMPLETED ON ALL VEHICLES, EQUIPMENT, ETC. UPON EACH ENTRY TO THE AIRFIELD PERIMETER.
10. CONTRACTOR PERSONNEL WHO WILL ROUTINELY OPERATED VEHICLES OR EQUIPMENT MUST COMPLETED THE BASE AIRFIELD DRIVING COURSE PRIOR TO THE START OF WORK. THIS COURSE IS 8 HOURS IN DURATION AND REQUIRES REVIEW OF MATERIAL AHEAD OF TIME AS WELL AS A WRITTEN EXAM. SUPPLY VEHICLES SUCH AS DUMP HAULS AND OR CONCRETE TRUCKS MAY BE ESCORTED BY A INDIVIDUAL WHO HAS COMPLETED AND PASSED THE AIRFIELD DRIVING COURSE. AIRFIELD DRIVING COURSE WILL BE PROVIDED BY DOBBINS ARB STAFF, NO FEE FOR THE CLASS IS REQUIRED.
11. THE CONTRACTOR SHALL COORDINATE WITH THE CONTRACTING OFFICER FOR THE DISPLACED THRESHOLD SCHEDULE 60 DAYS PRIOR TO CONSTRUCTION. THE CONTRACTOR IS REQUIRED TO PROVIDE NEW DISPLACED THRESHOLD PAVEMENT MARKINGS, AND REMOVAL OF DISPLACED THRESHOLD PAVEMENT MARKINGS. AS OUTLINED IN ETL 04-2 STANDARD AIRFIELD PAVEMENT MARKING SCHEMES. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROVIDING AND PLACING TEMPORARY BARRICADES (AIRPORT LOW PROFILE WATER FILLED BARRICADES WITH LIGHT) AT DESIGNATED LOCATIONS. THE DISPLACED THRESHOLD SHALL BE IN PLACE 45 DAYS AND ALL WORK SHALL BE COMPLETED IN THAT TIME PERIOD.
12. IN THE PRESENCE OF THE CONTRACTING OFFICER, PERFORM A SURVEY OF EXISTING RUNWAY OR TAXIWAY EDGE LIGHTS, RDM'S (RUNWAY DISTANCE MARKERS), AND AIRFIELD SIGNAGE TO DETERMINE WITHIN 100' BEYOND THE EDGE OF THE CONSTRUCTION AREA SHOWN ON THE DRAWINGS AND RECORD THE LOCATION OF ANY NON-FUNCTIONAL OR DAMAGED UNITS PRIOR TO CONSTRUCTION. PRIOR TO DEMOLITION THE CONTRACTOR SHALL SUBMIT A REPORT TO THE GOVERNMENT FOR REVIEW. ANY DAMAGE OR LOSS OF FUNCTION SHOWN TO HAVE OCCURRED DURING CONSTRUCTION MUST BE REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO THE GOVERNMENT.
13. TO WORK AND PROVIDE FREE WORK ZONE WITHIN RESTRICTED AREAS OF THE FACILITY, THE CONTRACTOR SHALL PROVIDE RED FLASHING LIGHTED AND WEIGHTED LOW PROFILE BARRICADES WITHIN AIRFIELD RESTRICTED SPACE WHERE AND WHEN DIRECTED BY THE AIRFIELD MANAGER OR COR. NO SOLAR LIGHTS ARE ACCEPTED FOR LOW PROFILE BARRICADES, BATTERY POWERED ONLY.

STORM SEWER NOTES

- 1. ALL RCP SHALL BE CLASS III EXCEPT WHERE NOTED.
2. REFER TO PLAN SHEETS FOR ALL GRATE INLET MODEL NUMBERS.
3. ALL STORM SEWER LINES SHALL HAVE BEDDING PER THE PROFILES AND DETAILS.
4. ALL INLETS SHALL MEET AIRFIELD TRAFFIC STANDARDS AND ALL INLETS/BOXES SHALL BE CAPABLE TO WITHSTAND AIRCRAFT LOADING OF A C5 (840,000 LBS), IF THE INLET OR BOX IS WITHIN 250' OF THE CENTERLINE OF THE LANDING STRIP OR ASPHALT STRIP, 50' FROM THE EDGE OF A TAXIWAY.
5. ALL STORM STRUCTURES SHALL BE A MINIMUM OF 48" INSIDE DIAMETER. ALL FRAME/GRATE SHALL BE CAST INTO A FLAT TOP BY THE PRECAST MANUFACTURER. FLAT TOP/CONCRETE COLLAR AND FRAME/GRATE SHALL BE FLUSH WITH FINAL GRADE. ALL STRUCTURES PLACED ON TOP OF A BOX CULVERT SHALL BE 48" INSIDE DIAMETER.
6. PIPE LENGTHS SHOWN ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. CONTRACTOR SHALL BID OUTSIDE OF STRUCTURE TO OUTSIDE OF STRUCTURE.
7. THE CONTRACTOR SHALL CONSTRUCT AND INSTALL THE GRATE INLETS PRIOR TO PERFORMING THE CENTRIFUGALLY CAST CONCRETE PIPE INSTALLATION. THE CONTRACTOR SHALL INSTALL PRECAST GRATE INLETS. THE INSTALLATION SHALL REQUIRE THE REMOVAL OF EXISTING PIPE IN ORDER TO INSTALL THE PROPOSED GRATED INLET. THE CONTRACTOR SHALL INCLUDE THE REMOVAL AND REPLACEMENT OF EXISTING PIPE AND THE PIPE COLLARS REQUIRED TO CONNECT THE PROPOSED PIPE TO EXISTING PIPE.
8. PRIOR TO PERFORMING CENTRIFUGALLY CAST CONCRETE PIPE INSTALLATION, THE CONTRACTOR WILL BE REQUIRED TO INSTALL MEASURES THAT WILL MAINTAIN DRY CONDITIONS IN THE PIPE. THE CONTRACTOR SHALL PROVIDE THE BASE WITH A CONSTRUCTION PHASING PLAN PRIOR TO THE INSTALLATION. EQUIPMENT AND MATERIAL USED TO MAINTAIN THE DRY CONDITION SHALL BE INCLUDED IN THE BID. THIS SHOULD INCLUDE ANY BYPASS PUMPING NEEDED TO MAINTAIN AIRFIELD DRAINAGE DURING CONSTRUCTION. THE CONTRACTOR SHALL FOLLOW THE GEORGIA SOIL AND WATER CONSERVATION'S MANUAL FOR EROSION AND SEDIMENT CONTROL DURING THE INSTALLATION.
9. SEE PROFILES AND STORM SEWER NOTES FOR ALL STORM SEWER ELEVATIONS, STORM SEWER PIPE SIZES, STORM SEWER MATERIALS AND SPECIFICATIONS, STORM SEWER CASING SPECIFICATIONS AND SLOPES.
10. OVER-EXCAVATE ALL STORM SEWER LINES THAT ARE WITHIN 2-FT OF THE SEASONAL HIGH WATER TABLE AND REPLACE THE TOP 12 INCHES WITH WASHED No. 34 CRUSHED STONE WRAPPED IN 6 OZ. NON-WOVEN GEOTEXTILE. WHERE APPLICABLE (SEE DETAILS) No. 57 CRUSHED STONE SHALL EXTEND TO THE MIDPOINT OF THE PIPE OR BOX CULVERT AND SHALL BE WRAPPED IN 6 OZ. NON-WOVEN GEOTEXTILE WITH PERFORATED DRAIN PIPE.
11. ALL DRAIN INLETS AND MANHOLE COVERS TO BE PAINTED WITH ORANGE ENAMEL PAINT PER COR.
12. CONTRACTOR SHALL VERIFY LOCATION OF PIPE, REPAIRS, AND UTILITIES BEFORE CUTTING PAVEMENT.
13. WHERE IDENTIFIED ON THE PLANS TO "CLEAN PIPES" THIS IS TO REMOVE ACCUMULATED SEDIMENT AND DEBRIS WITHIN THE PIPE WITHOUT DAMAGE TO THE EXISTING INFRASTRUCTURE.
14. CONTRACTOR SHALL PERFORM VIDEO CAMERA INSPECTION OF NEW AND REPAIRED STORMWATER PIPES AND STRUCTURES FOR PHASE II. PHASE I PIPES TO BE VIDEO CAMERA INSPECTED FOR DOCUMENTATION OF PIPE CONDITIONS (5,350 LF OF PIPE). ALL INSPECTIONS TO BE PROVIDED DVD.
15. ALL PIPES SHALL BE CLEANED TO A LEVEL ACCEPTABLE TO THE MANUFACTURE WHEN PIPE LINING IS SPECIFIED.

LINING

- 1. PIPE GREATER THAN 24" SHALL BE PER SPEC 31 16 00.
2. PIPE LESS THAN 24" SHALL BE CURE IN PLACE PIPE REPAIR (CIPP).
3. POINT REPAIR FOR PIPES SHALL BE TRENCHLESS REPAIR SYSTEM (BASIS OF DESIGN IS HAMMERHEAD TRENCHLESS SYSTEM).

GENERAL NOTES

NO SCALE

US Army Corps of Engineers Louisville District
James R. Warner, P.E.
P.E. No. 032950, GA
Professional Engineer
No. PE032950
James R. Warner
5-20-11

Table with 3 columns: MARK, DESCRIPTION, DATE

U.S. ARMY CORPS OF ENGINEERS LOUISVILLE DISTRICT
LOUISVILLE, KENTUCKY 40210-0059
DESIGNED BY: J. WARNER
CHECKED BY: B. MATTHEWS
SUBMITTED BY: S. BAILEY
FILE NUMBER: 470320B
ISSUE DATE: 05/20/2019
SOLICITATION NO.:
CONTRACT NO.:
FILE NAME: 470320B-G-002\_GI.dwg

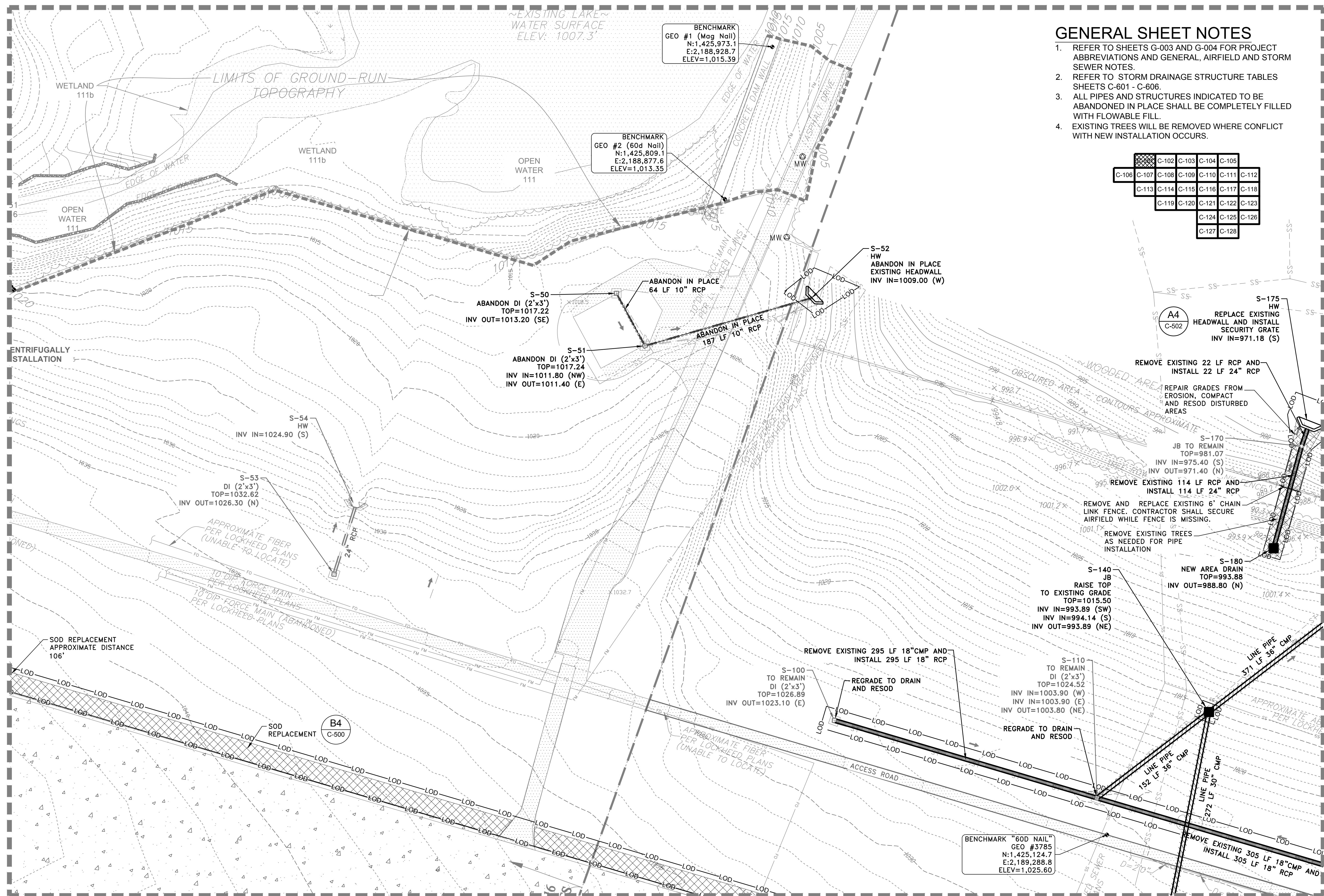
DOBBINS AIRFIELD STORM WATER SYSTEM PHASE 2
DOBBINS AIR RESERVE BASE, GEORGIA
PROJECT NO.: FGWB 04-0014P2A/B
P2# 470320B
GENERAL NOTES

SHEET ID
G-004









**GENERAL SHEET NOTES**

1. REFER TO SHEETS G-003 AND G-004 FOR PROJECT ABBREVIATIONS AND GENERAL, AIRFIELD AND STORM SEWER NOTES.
2. REFER TO STORM DRAINAGE STRUCTURE TABLES SHEETS C-601 - C-606.
3. ALL PIPES AND STRUCTURES INDICATED TO BE ABANDONED IN PLACE SHALL BE COMPLETELY FILLED WITH FLOWABLE FILL.
4. EXISTING TREES WILL BE REMOVED WHERE CONFLICT WITH NEW INSTALLATION OCCURS.

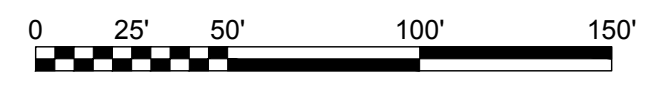
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C-106	C-107	C-108	C-109
C-110	C-111	C-112	C-113
C-114	C-115	C-116	C-117
C-118	C-119	C-120	C-121
C-122	C-123	C-124	C-125
C-126	C-127	C-128	

MATCHLINE-SEE SHEET C-102

MATCHLINE-SEE SHEET C-107

**STORM DRAINAGE PLAN**

SCALE: 1" = 50'



US Army Corps of Engineers  
Louisville District

James R. Warner, P.E.  
P.E. No. 032950, GA

REGISTERED PROFESSIONAL ENGINEER  
No. PE032950  
JAMES R. WARNER  
5-20-A

MARK	DESCRIPTION	DATE

DESIGNED BY: J. WARNER  
CHECKED BY: B. MATTHEWS  
SUBMITTED BY: S. BAILEY  
FILE NAME: 470564-C-101.dwg

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FILE NUMBER:

U.S. ARMY CORPS OF ENGINEERS  
LOUISVILLE DISTRICT  
LOUISVILLE, KENTUCKY 40210-0059

TETRA TECH, INC.  
LOUISVILLE, KENTUCKY 40202  
www.tetra-tech.com

REMOVE EXISTING 22 LF RCP AND INSTALL 22 LF 24" RCP

REPAIR GRADES FROM EROSION, COMPACT AND RESOD DISTURBED AREAS

S-170 JB TO REMAIN  
TOP=981.07  
INV IN=975.40 (S)  
INV OUT=971.40 (N)

REMOVE EXISTING 114 LF RCP AND INSTALL 114 LF 24" RCP

REMOVE AND REPLACE EXISTING 6' CHAIN LINK FENCE. CONTRACTOR SHALL SECURE AIRFIELD WHILE FENCE IS MISSING.

REMOVE EXISTING TREES AS NEEDED FOR PIPE INSTALLATION

S-180 NEW AREA DRAIN  
TOP=993.88  
INV OUT=988.80 (N)

S-140 JB  
RAISE TOP TO EXISTING GRADE  
TOP=1015.50  
INV IN=993.89 (SW)  
INV IN=994.14 (S)  
INV OUT=993.89 (NE)

REMOVE EXISTING 295 LF 18" CMP AND INSTALL 295 LF 18" RCP

REGRADE TO DRAIN AND RESOD

S-110 TO REMAIN DI (2'x3')  
TOP=1024.52  
INV IN=1003.90 (W)  
INV IN=1003.90 (E)  
INV OUT=1003.80 (NE)

REGRADE TO DRAIN AND RESOD

LINE PIPE 36" CMP  
371 LF 36" CMP

LINE PIPE 36" CMP  
152 LF 36" CMP

LINE PIPE 30" CMP  
272 LF 30" CMP

REMOVE EXISTING 305 LF 18" CMP AND INSTALL 305 LF 18" RCP

APPROXIMATE AS PER LOCKHEED PLANS

DOBBINS AIRFIELD STORM WATER SYSTEM PHASE 2  
DOBBINS AIR RESERVE BASE, GEORGIA

PROJECT NO.: FGWB 04-0014P2A/B  
P#: 470564

STORM DRAINAGE PLAN

SHEET ID  
**C-101**

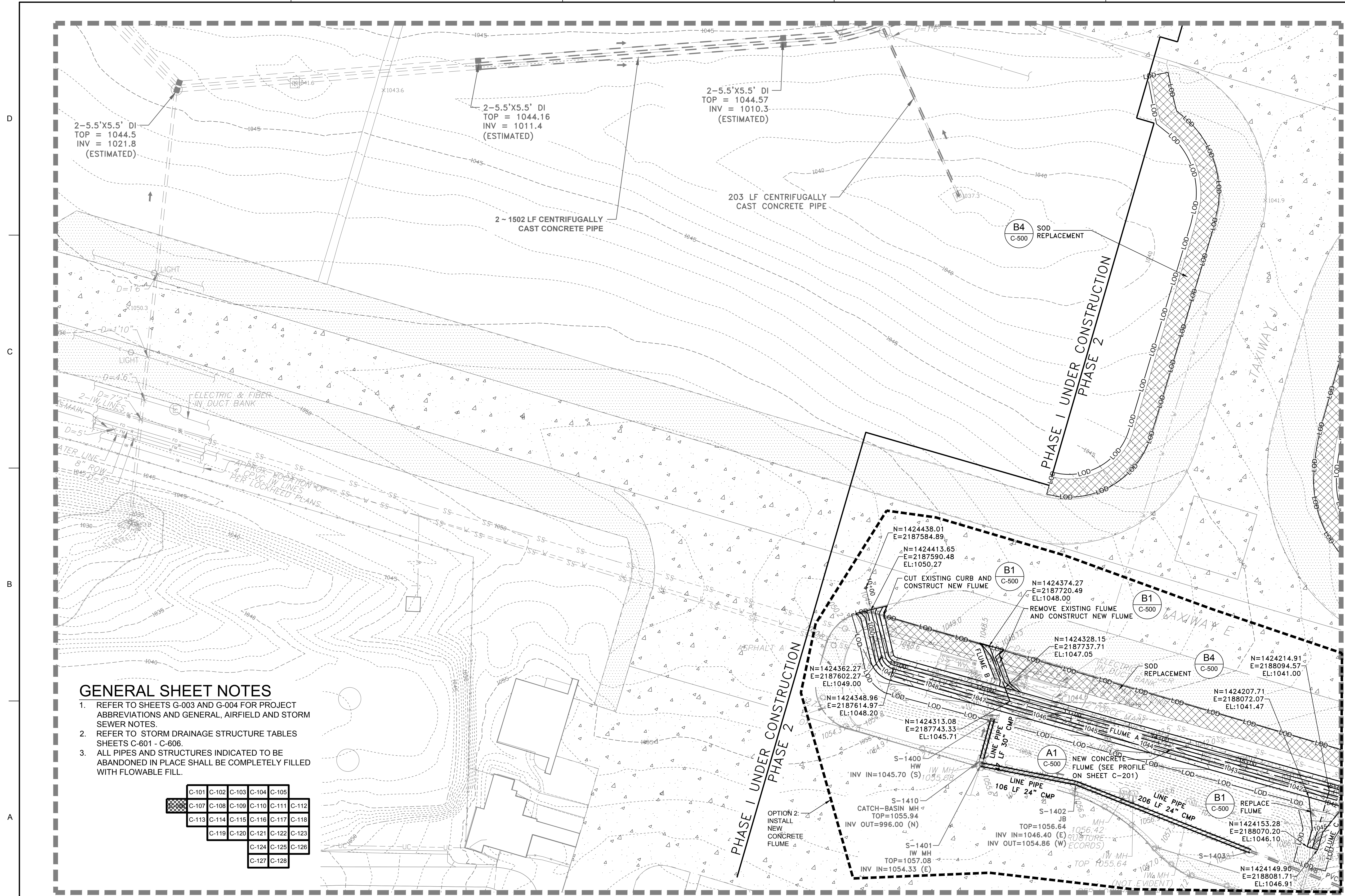
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**GENERAL SHEET NOTES**

- REFER TO SHEETS G-003 AND G-004 FOR PROJECT ABBREVIATIONS AND GENERAL, AIRFIELD AND STORM SEWER NOTES.
- REFER TO STORM DRAINAGE STRUCTURE TABLES SHEETS C-601 - C-606.
- ALL PIPES AND STRUCTURES INDICATED TO BE ABANDONED IN PLACE SHALL BE COMPLETELY FILLED WITH FLOWABLE FILL.

C-101	C-102	C-103	C-104	C-105
C-107	C-108	C-109	C-110	C-111
C-113	C-114	C-115	C-116	C-117
C-119	C-120	C-121	C-122	C-123
		C-124	C-125	C-126
		C-127	C-128	

**STORM DRAINAGE PLAN**

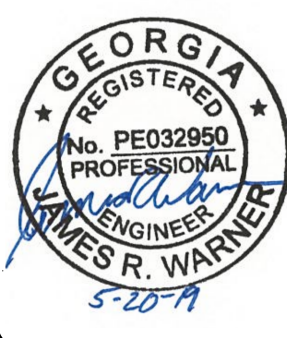
SCALE: 1" = 50'



MATCHLINE-SEE SHEET C-107



James R. Warner, P.E.  
P.E. No. 032950, GA



MARK	DESCRIPTION	DATE

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PROJECT NO.: FGWB 04-0014P2A/B	PROJECT NO.:

U.S. ARMY CORPS OF ENGINEERS  
LOUISVILLE DISTRICT  
LOUISVILLE, KENTUCKY 40210-0059

TETRA TECH, INC.  
LOUISVILLE, KENTUCKY 40202  
www.tetra-tech.com

PROJECT NO.: FGWB 04-0014P2A/B  
P2# 470584

SHEET ID  
**C-106**

MATCHLINE-SEE SHEET C-101

**GENERAL SHEET NOTES**

1. REFER TO SHEETS G-003 AND G-004 FOR PROJECT ABBREVIATIONS AND GENERAL, AIRFIELD AND STORM SEWER NOTES.
2. REFER TO STORM DRAINAGE STRUCTURE TABLES SHEETS C-601 - C-606.
3. ALL PIPES AND STRUCTURES INDICATED TO BE ABANDONED IN PLACE SHALL BE COMPLETELY FILLED WITH FLOWABLE FILL.

C-101	C-102	C-103	C-104	C-105
C-106	C-108	C-109	C-110	C-111
C-113	C-114	C-115	C-116	C-117
C-119	C-120	C-121	C-122	C-123
C-124	C-125	C-126		
C-127	C-128			

MATCHLINE-SEE SHEET C-106

MATCHLINE-SEE SHEET C-108

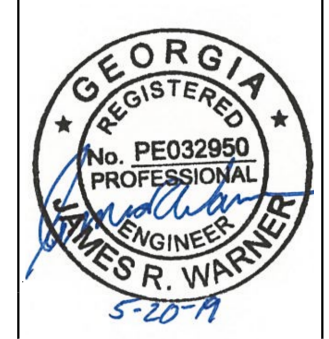
MATCHLINE-SEE SHEET C-113

**STORM DRAINAGE PLAN**

SCALE: 1" = 50'



US Army Corps of Engineers  
Louisville District



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SUBMITTED BY: S. BAILEY	CONTRACT NO.:
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ANSI D:	ANSI D:

U.S. ARMY CORPS OF ENGINEERS  
LOUISVILLE DISTRICT  
LOUISVILLE, KENTUCKY 40210-0059

TETRA TECH, INC.  
LOUISVILLE, KENTUCKY 40202  
www.tetra-tech.com

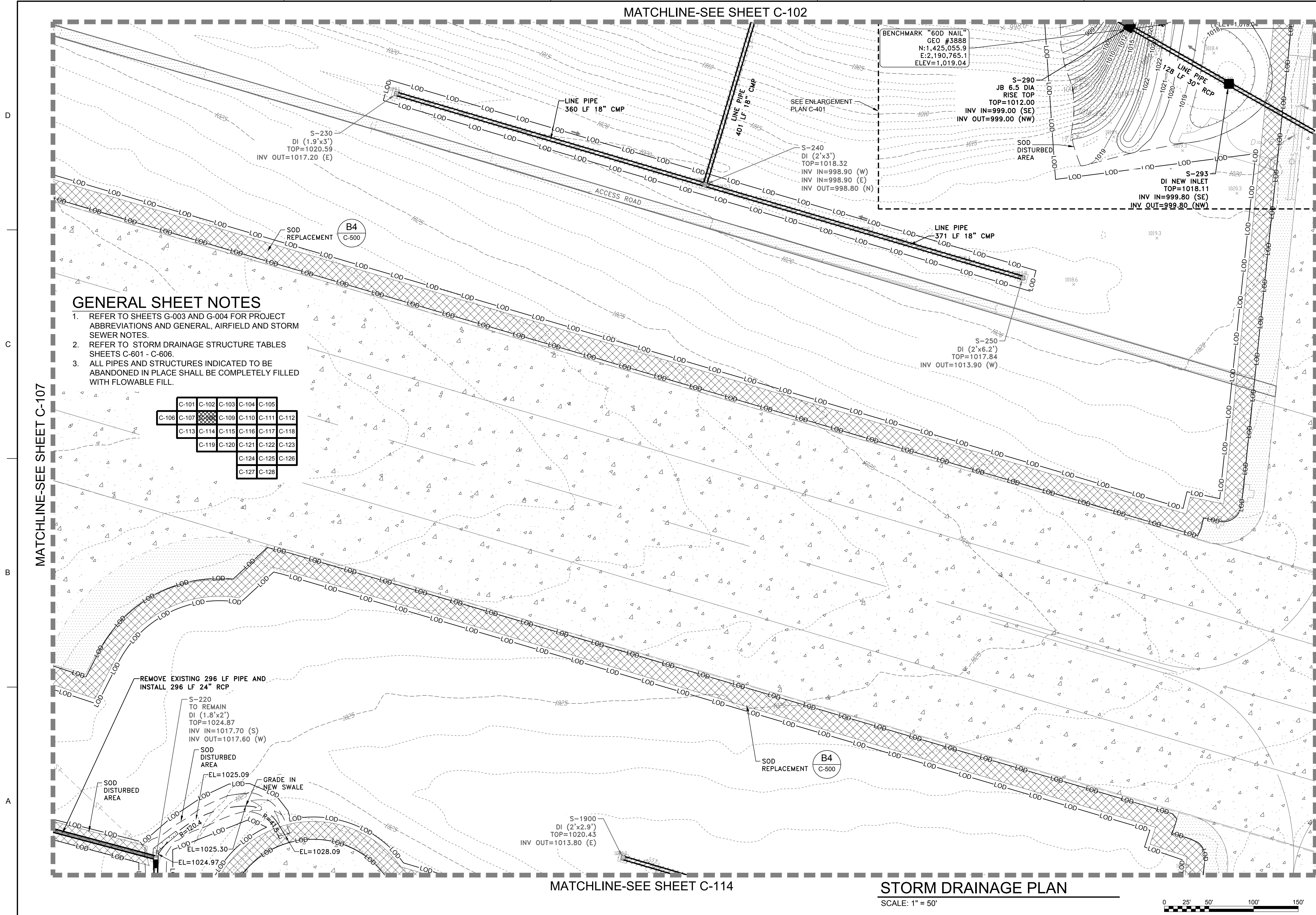
PROJECT NO.: FGWB 04-0014P2A/B  
P#: 470564

SHEET ID  
**C-107**

FILE PATH: O:\PROJECTS\ORLANDO\11652200-11652-18007\CAD\SHETFILES\470564-C-101\_PLOTTED\_05/20/2019 BY: MATTHEWS, RUSS



MATCHLINE-SEE SHEET C-102



**GENERAL SHEET NOTES**

1. REFER TO SHEETS G-003 AND G-004 FOR PROJECT ABBREVIATIONS AND GENERAL, AIRFIELD AND STORM SEWER NOTES.
2. REFER TO STORM DRAINAGE STRUCTURE TABLES SHEETS C-601 - C-606.
3. ALL PIPES AND STRUCTURES INDICATED TO BE ABANDONED IN PLACE SHALL BE COMPLETELY FILLED WITH FLOWABLE FILL.

C-101	C-102	C-103	C-104	C-105		
C-106	C-107	C-108	C-109	C-110	C-111	C-112
C-113	C-114	C-115	C-116	C-117	C-118	
C-119	C-120	C-121	C-122	C-123		
C-124	C-125	C-126				
C-127	C-128					

BENCHMARK "60D NAIL"  
GEO #3888  
N:1,425,055.9  
E:2,190,765.1  
ELEV=1,019.04

S-290  
JB 6.5 DIA  
RISE TOP  
TOP=1012.00  
INV IN=999.00 (SE)  
INV OUT=999.00 (NW)

S-240  
DI (2'x3')  
TOP=1018.32  
INV IN=998.90 (W)  
INV IN=998.90 (E)  
INV OUT=998.80 (N)

S-293  
DI NEW INLET  
TOP=1018.11  
INV IN=999.80 (SE)  
INV OUT=999.80 (NW)

S-250  
DI (2'x6.2')  
TOP=1017.84  
INV OUT=1013.90 (W)

REMOVE EXISTING 296 LF PIPE AND  
INSTALL 296 LF 24" RCP

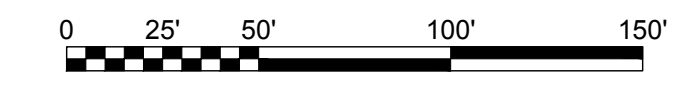
S-220  
TO REMAIN  
DI (1.8'x2')  
TOP=1024.87  
INV IN=1017.70 (S)  
INV OUT=1017.60 (W)

S-1900  
DI (2'x2.9')  
TOP=1020.43  
INV OUT=1013.80 (E)

MATCHLINE-SEE SHEET C-114

**STORM DRAINAGE PLAN**

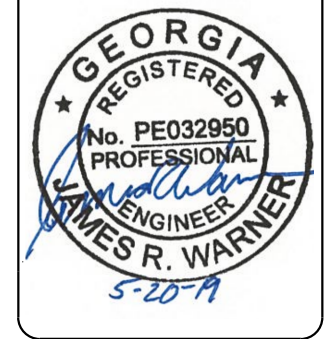
SCALE: 1" = 50'



MATCHLINE-SEE SHEET C-109



James R. Warner, P.E.  
P.E. No. 032950, GA



MARK	DESCRIPTION	DATE

DESIGNED BY: J. WARNER	ISSUE DATE: 05/20/2019
CHECKED BY: B. MATTHEWS	SOLICITATION NO.:
SUBMITTED BY: S. BAILEY	CONTRACT NO.:
FILE NAME: ANSI.DWG	FILE NUMBER: 470564-C-101.dwg

**U.S. ARMY CORPS OF ENGINEERS**  
LOUISVILLE DISTRICT  
LOUISVILLE, KENTUCKY 40210-0059

**POND**  
TETRA TECH, INC.  
LOUISVILLE, KENTUCKY 40202  
P.O. BOX 244-2008  
FRENCH LICK, KY 40301

DOBBS AIRFIELD STORM WATER SYSTEM PHASE 2  
DOBBS AIR RESERVE BASE, GEORGIA  
PROJECT NO.: FGWB 04-0014P2A/B  
P#: 470564

SHEET ID  
**C-108**

FILE PATH: O:\PROJECTS\ORLANDO\11652200-11652-18007\CAD\SHEET FILES\470564-C-101.PLOTTED: 05/02/2019 BY: MATTHEWS, RUSS

MATCHLINE-SEE SHEET C-103

**GENERAL SHEET NOTES**

1. REFER TO SHEETS G-003 AND G-004 FOR PROJECT ABBREVIATIONS AND GENERAL, AIRFIELD AND STORM SEWER NOTES.
2. REFER TO STORM DRAINAGE STRUCTURE TABLES SHEETS C-601 - C-606.
3. ALL PIPES AND STRUCTURES INDICATED TO BE ABANDONED IN PLACE SHALL BE COMPLETELY FILLED WITH FLOWABLE FILL.

C-101	C-102	C-103	C-104	C-105
C-106	C-107	C-108	C-109	C-110
C-111	C-112	C-113	C-114	C-115
C-116	C-117	C-118	C-119	C-120
C-121	C-122	C-123	C-124	C-125
C-126	C-127	C-128		

MATCHLINE-SEE SHEET C-108

MATCHLINE-SEE SHEET C-110

MATCHLINE-SEE SHEET C-115

**STORM DRAINAGE PLAN**

SCALE: 1" = 50'



US Army Corps of Engineers  
Louisville District

James R. Warner, P.E.  
P.E. No. 032950, GA

REGISTERED PROFESSIONAL ENGINEER  
JAMES R. WARNER  
5-20-A

MARK	DESCRIPTION	DATE

ISSUE DATE:	05/20/2019
DESIGNED BY:	J. WARNER
CHECKED BY:	R. MATTHEWS
CONTRACT NO.:	40210-0059
FILE NUMBER:	
FILE NAME:	470564-C-101.dwg

U.S. ARMY CORPS OF ENGINEERS  
LOUISVILLE DISTRICT  
LOUISVILLE, KENTUCKY 40210-0059

TETRA TECH, INC.  
LOUISVILLE, KENTUCKY 40202  
www.tetra-tech.com

DOBBINS AIRFIELD STORM WATER SYSTEM PHASE 2  
DOBBINS AIR RESERVE BASE, GEORGIA  
PROJECT NO.: FGWB 04-0014P2A/B  
P#: 470564

STORM DRAINAGE PLAN

SHEET ID  
**C-109**

FILE PATH: O:\PROJECTS\DOBBINS\1652200-11652-18007\CAD\SHEET FILES\470564-C-101\_PLOTTED\_05/20/2019 BY: MATTHEWS, RUSS



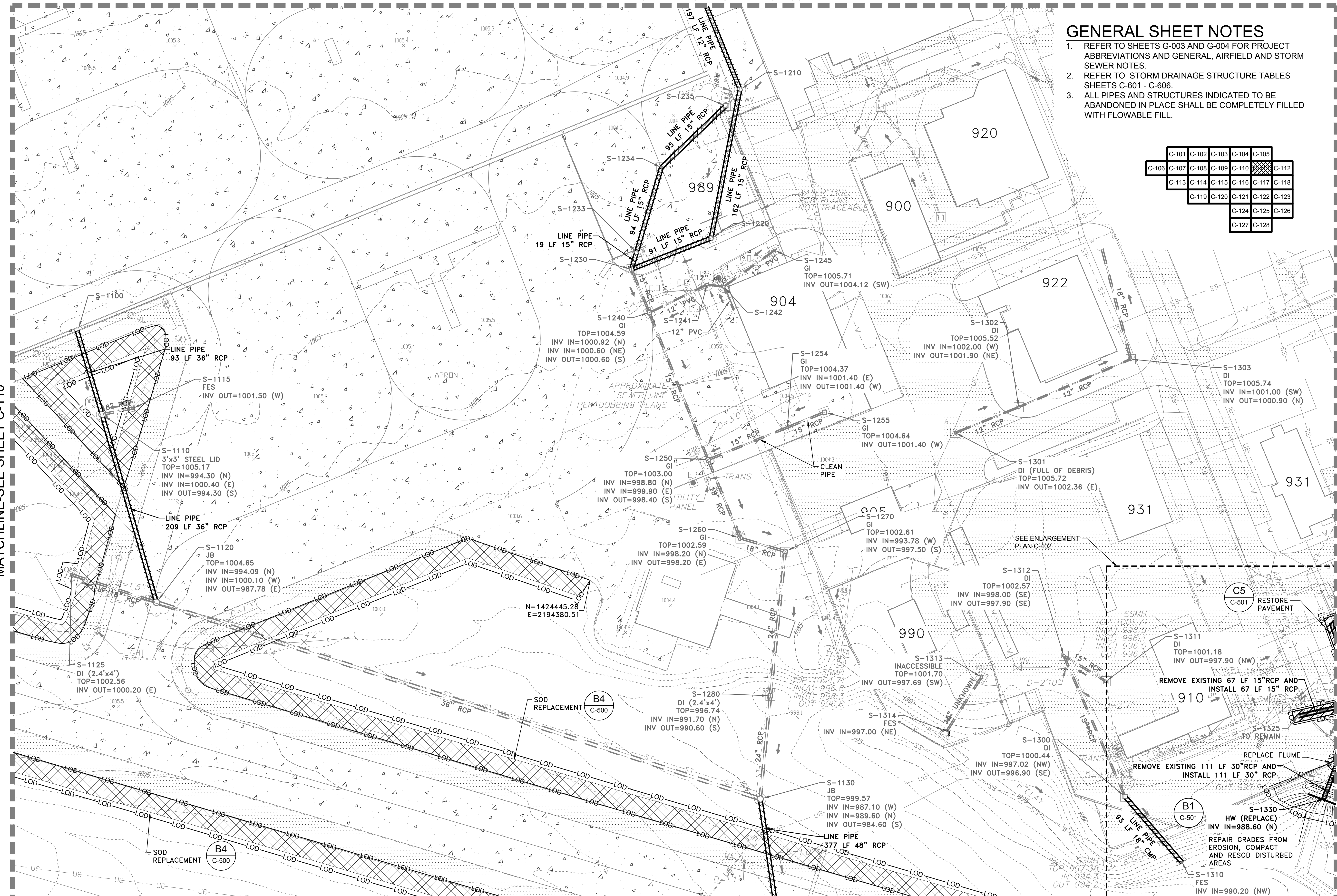
MATCHLINE-SEE SHEET C-105

- ### GENERAL SHEET NOTES
- REFER TO SHEETS G-003 AND G-004 FOR PROJECT ABBREVIATIONS AND GENERAL, AIRFIELD AND STORM SEWER NOTES.
  - REFER TO STORM DRAINAGE STRUCTURE TABLES SHEETS C-601 - C-606.
  - ALL PIPES AND STRUCTURES INDICATED TO BE ABANDONED IN PLACE SHALL BE COMPLETELY FILLED WITH FLOWABLE FILL.

C-101	C-102	C-103	C-104	C-105
C-106	C-107	C-108	C-109	C-110
C-113	C-114	C-115	C-116	C-117
C-119	C-120	C-121	C-122	C-123
		C-124	C-125	C-126
		C-127	C-128	

MATCHLINE-SEE SHEET C-110

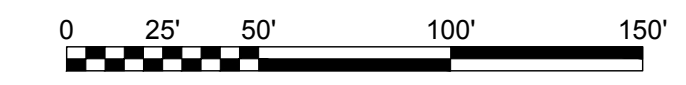
MATCHLINE-SEE SHEET C-112



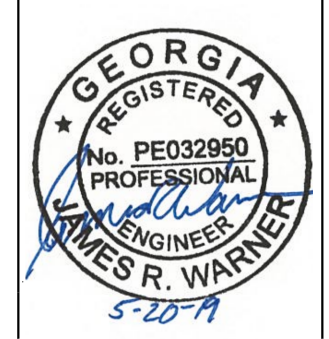
MATCHLINE-SEE SHEET C-117

**STORM DRAINAGE PLAN**

SCALE: 1" = 50'



US Army Corps of Engineers  
Louisville District



MARK	DESCRIPTION	DATE

DESIGNED BY: J. WARNER	ISSUE DATE: 05/20/2019
CHECKED BY: B. MATTHEWS	SOLICITATION NO.: 40210-0059
APPROVED BY: S. BAILEY	CONTRACT NO.:
FILE NAME: 470584-C-101.dwg	FILE NUMBER:
ANSI D: 470584-C-101.dwg	

**U.S. ARMY CORPS OF ENGINEERS**  
LOUISVILLE DISTRICT  
LOUISVILLE, KENTUCKY 40210-0059

**POND** logo

TETRA TECH, INC.  
LOUISVILLE, KENTUCKY 40202  
www.tetra-tech.com

DOBBINS AIRFIELD STORM WATER SYSTEM PHASE 2  
DOBBINS AIR RESERVE BASE, GEORGIA  
PROJECT NO.: FGWB 04-0014P2A/B  
P#: 470584

**STORM DRAINAGE PLAN**

SHEET ID  
**C-111**

FILE PATH: O:\PROJECTS\ORLANDO\1165220\11652-18007\CAD\DWG\FILES\470584-C-101\_PLOTTED\_05/20/2019 BY: MATTHEWS, RUSG



MATCHLINE-SEE SHEET C-107

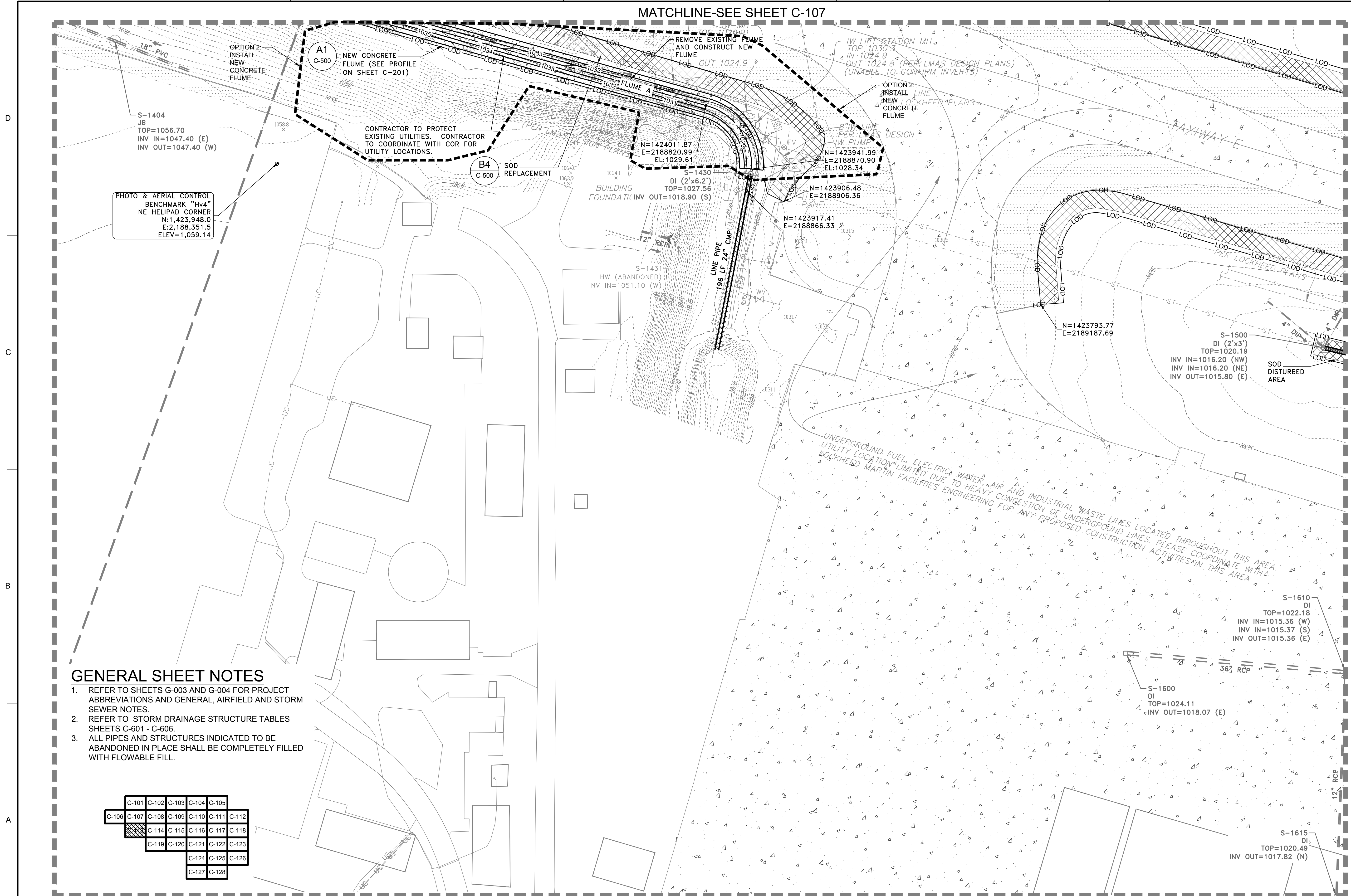


PHOTO & AERIAL CONTROL BENCHMARK "Hv4" NE HELIPAD CORNER  
 N:1,423,948.0  
 E:2,188,351.5  
 ELEV=1,059.14

**GENERAL SHEET NOTES**

1. REFER TO SHEETS G-003 AND G-004 FOR PROJECT ABBREVIATIONS AND GENERAL, AIRFIELD AND STORM SEWER NOTES.
2. REFER TO STORM DRAINAGE STRUCTURE TABLES SHEETS C-601 - C-606.
3. ALL PIPES AND STRUCTURES INDICATED TO BE ABANDONED IN PLACE SHALL BE COMPLETELY FILLED WITH FLOWABLE FILL.

C-101	C-102	C-103	C-104	C-105
C-106	C-107	C-108	C-109	C-110
C-111	C-112	C-113	C-114	C-115
C-116	C-117	C-118	C-119	C-120
C-121	C-122	C-123	C-124	C-125
C-126	C-127	C-128		

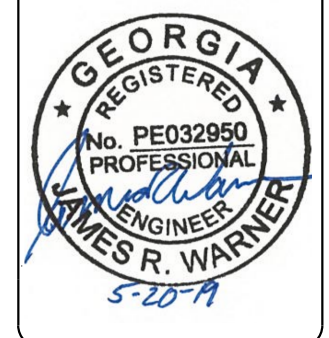
MATCHLINE-SEE SHEET C-114

**STORM DRAINAGE PLAN**

SCALE: 1" = 50'



James R. Warner, P.E.  
 P.E. No. 032950, GA



MARK	DESCRIPTION	DATE

DESIGNED BY: J. WARNER	ISSUE DATE: 05/20/2019
CHECKED BY: B. MATTHEWS	SOLICITATION NO.:
SUBMITTED BY: S. BAILEY	CONTRACT NO.:
FILE NAME: 470564-C-101.dwg	FILE NUMBER:

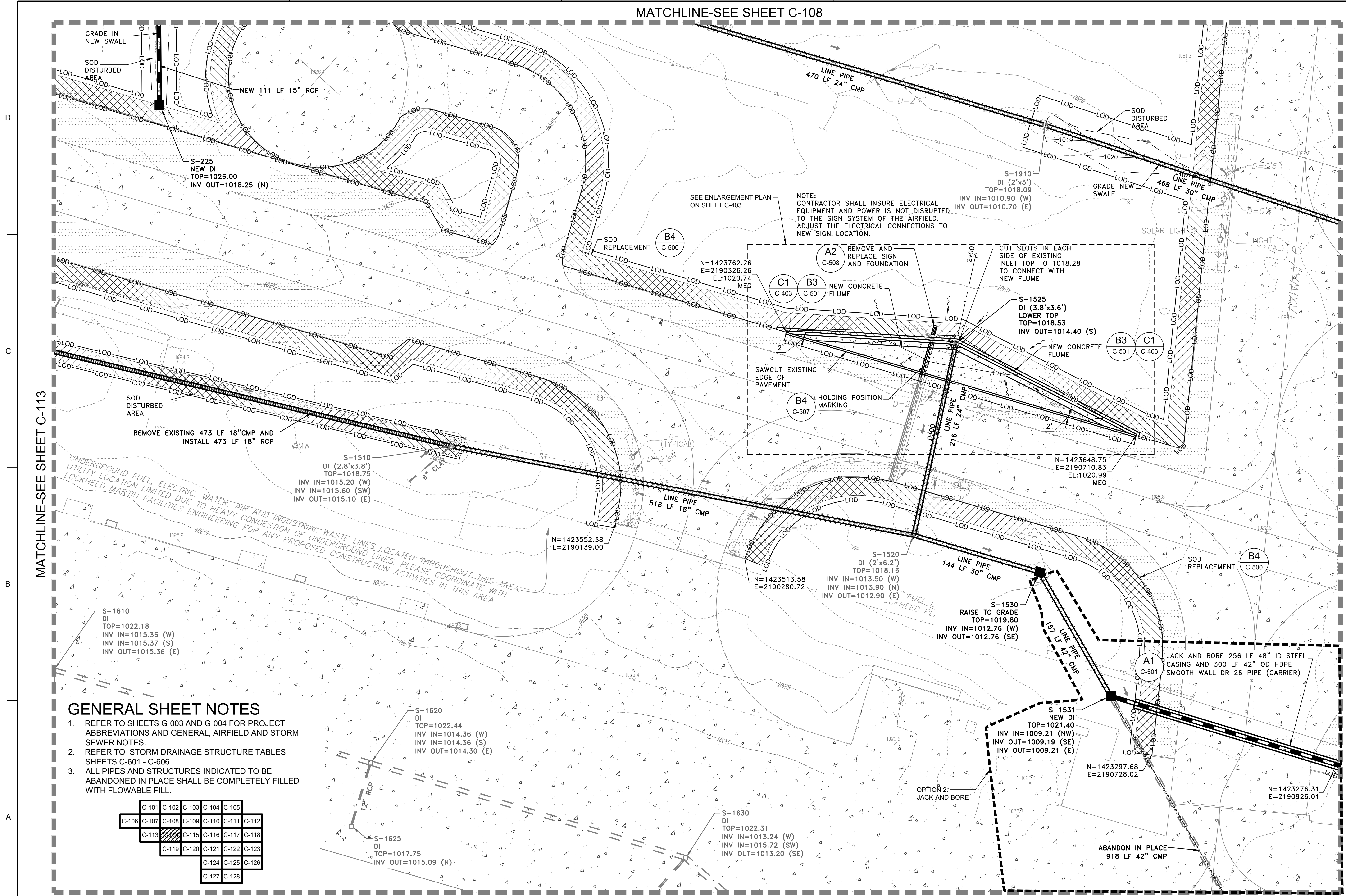
**U.S. ARMY CORPS OF ENGINEERS**  
 LOUISVILLE DISTRICT  
 LOUISVILLE, KENTUCKY 40210-0059

**TETRA TECH, INC.**  
 5800 PARSONS AVE  
 LOUISVILLE, KENTUCKY 40202  
 TEL: 502-254-2000  
 WWW.TETRA-TECH.COM

DOBBINS AIRFIELD STORM WATER SYSTEM PHASE 2  
 DOBBINS AIR RESERVE BASE, GEORGIA  
 PROJECT NO.: FGWB 04-0014P2A/B  
 P#: 470564

SHEET ID  
**C-113**

MATCHLINE-SEE SHEET C-108



GENERAL SHEET NOTES

- REFER TO SHEETS G-003 AND G-004 FOR PROJECT ABBREVIATIONS AND GENERAL, AIRFIELD AND STORM SEWER NOTES.
- REFER TO STORM DRAINAGE STRUCTURE TABLES SHEETS C-601 - C-606.
- ALL PIPES AND STRUCTURES INDICATED TO BE ABANDONED IN PLACE SHALL BE COMPLETELY FILLED WITH FLOWABLE FILL.

C-101	C-102	C-103	C-104	C-105
C-106	C-107	C-108	C-109	C-110
C-111	C-112	C-113	C-114	C-115
C-116	C-117	C-118	C-119	C-120
C-121	C-122	C-123	C-124	C-125
C-126	C-127	C-128		

MATCHLINE-SEE SHEET C-119

STORM DRAINAGE PLAN

SCALE: 1" = 50'



US Army Corps of Engineers  
Louisville District

James R. Warner, P.E.  
P.E. No. 032950, GA

REGISTERED PROFESSIONAL ENGINEER  
No. PE032950  
JAMES R. WARNER  
5-20-19

MARK	DESCRIPTION	DATE

DESIGNED BY: J. WARNER	ISSUE DATE: 05/20/2019
CHECKED BY: B. MATTHEWS	SOLICITATION NO.:
FILED BY: S. BAILEY	CONTRACT NO.:
FILE NAME: 470564-C-101.dwg	FILE NUMBER:
ANSI D:	DATE:

U.S. ARMY CORPS OF ENGINEERS  
LOUISVILLE DISTRICT  
LOUISVILLE, KENTUCKY 40210-0059

DESIGNED BY: J. WARNER  
CHECKED BY: B. MATTHEWS  
FILED BY: S. BAILEY

TETRA TECH, INC.  
Louisville, Kentucky 40202  
P.O. Box 244-0008  
www.tetra-tech.com

PROJECT NO.: FGWB 04-0014P2A/B  
P2#: 470564

STORM DRAINAGE PLAN

DOBBINS AIRFIELD STORM WATER SYSTEM PHASE 2  
DOBBINS AIR RESERVE BASE, GEORGIA

SHEET ID  
C-114

FILE PATH: O:\PROJECTS\ORLANDO\11652200-11652-18007\CAD\SHR\FILES\470564-C-101\_PLOTTED\_05/20/2019 BY: MATTHEWS, RUSSELL

MATCHLINE-SEE SHEET C-109

GENERAL SHEET NOTES

1. REFER TO SHEETS G-003 AND G-004 FOR PROJECT ABBREVIATIONS AND GENERAL, AIRFIELD AND STORM SEWER NOTES.
2. REFER TO STORM DRAINAGE STRUCTURE TABLES SHEETS C-601 - C-606.
3. ALL PIPES AND STRUCTURES INDICATED TO BE ABANDONED IN PLACE SHALL BE COMPLETELY FILLED WITH FLOWABLE FILL.

C-101	C-102	C-103	C-104	C-105
C-106	C-107	C-108	C-109	C-110
C-111	C-112	C-113	C-114	C-115
C-116	C-117	C-118	C-119	C-120
C-121	C-122	C-123	C-124	C-125
C-126	C-127	C-128		

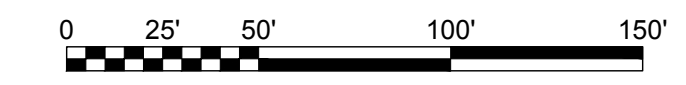
MATCHLINE-SEE SHEET C-114

MATCHLINE-SEE SHEET C-116

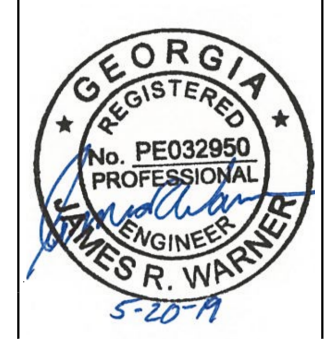
MATCHLINE-SEE SHEET C-120

STORM DRAINAGE PLAN

SCALE: 1" = 50'



James R. Warner, P.E.  
P.E. No. 032950, GA



MARK	DESCRIPTION	DATE

ISSUE DATE:	05/20/2019
DESIGNED BY:	J. WARNER
CHECKED BY:	B. MATTHEWS
CONTRACT NO.:	LOUISVILLE, KENTUCKY 40210-0059
FILE NUMBER:	470584-C-101.dwg
FILE NAME:	470584-C-101.dwg

U.S. ARMY CORPS OF ENGINEERS  
LOUISVILLE DISTRICT  
LOUISVILLE, KENTUCKY 40210-0059

DESIGNED BY: J. WARNER  
CHECKED BY: B. MATTHEWS  
SUBMITTED BY: S. BAILEY  
FILE NAME: 470584-C-101.dwg

TETRA TECH, INC.  
Louisville, Kentucky 40202  
www.tetra-tech.com

DOBBINS AIRFIELD STORM WATER SYSTEM PHASE 2  
DOBBINS AIR RESERVE BASE, GEORGIA  
PROJECT NO.: FGWB 04-0014P2A/B  
P#: 470584

STORM DRAINAGE PLAN

SHEET ID  
**C-115**

FILE PATH: O:\PROJECTS\ORLANDO\11652\2019\11652-18007\CAD\SHETS\470584-C-101\_PLOTTED\_05/20/2019 BY: MATTHEWS, RUSS




MATCHLINE-SEE SHEET C-110

**GENERAL SHEET NOTES**

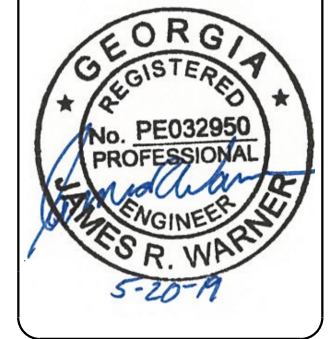
1. REFER TO SHEETS G-003 AND G-004 FOR PROJECT ABBREVIATIONS AND GENERAL, AIRFIELD AND STORM SEWER NOTES.
2. REFER TO STORM DRAINAGE STRUCTURE TABLES SHEETS C-601 - C-606.
3. ALL PIPES AND STRUCTURES INDICATED TO BE ABANDONED IN PLACE SHALL BE COMPLETELY FILLED WITH FLOWABLE FILL.

C-101	C-102	C-103	C-104	C-105		
C-106	C-107	C-108	C-109	C-110	C-111	C-112
C-113	C-114	C-115	C-116	C-117	C-118	
C-119	C-120	C-121	C-122	C-123		
C-124	C-125	C-126				
C-127	C-128					



US Army Corps of Engineers  
Louisville District

James R. Warner, P.E.  
P.E. No. 032950, GA




MARK	DESCRIPTION	DATE

DESIGNED BY: J. WARNER  
CHECKED BY: B. MATTHEWS  
SUBMITTED BY: S. BAILEY  
FILE NAME: 470564-C-101.dwg

ISSUE DATE: 05/20/2019  
SOLICITATION NO.:  
CONTRACT NO.:  
FILE NUMBER:

U.S. ARMY CORPS OF ENGINEERS  
LOUISVILLE DISTRICT  
LOUISVILLE, KENTUCKY 40210-0059

TETRA TECH, INC.  
LOUISVILLE, KENTUCKY 40202  
www.tetra-tech.com



DOBBS AIRFIELD STORM WATER SYSTEM PHASE 2  
DOBBS AIR RESERVE BASE, GEORGIA  
PROJECT NO.: FGWB 04-0014P2A/B  
P#: 470564

STORM DRAINAGE PLAN

SHEET ID  
**C-116**

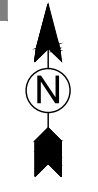
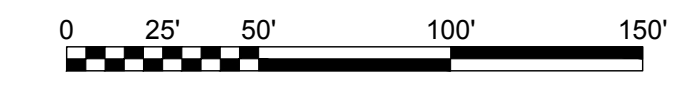
MATCHLINE-SEE SHEET C-115

MATCHLINE-SEE SHEET C-117

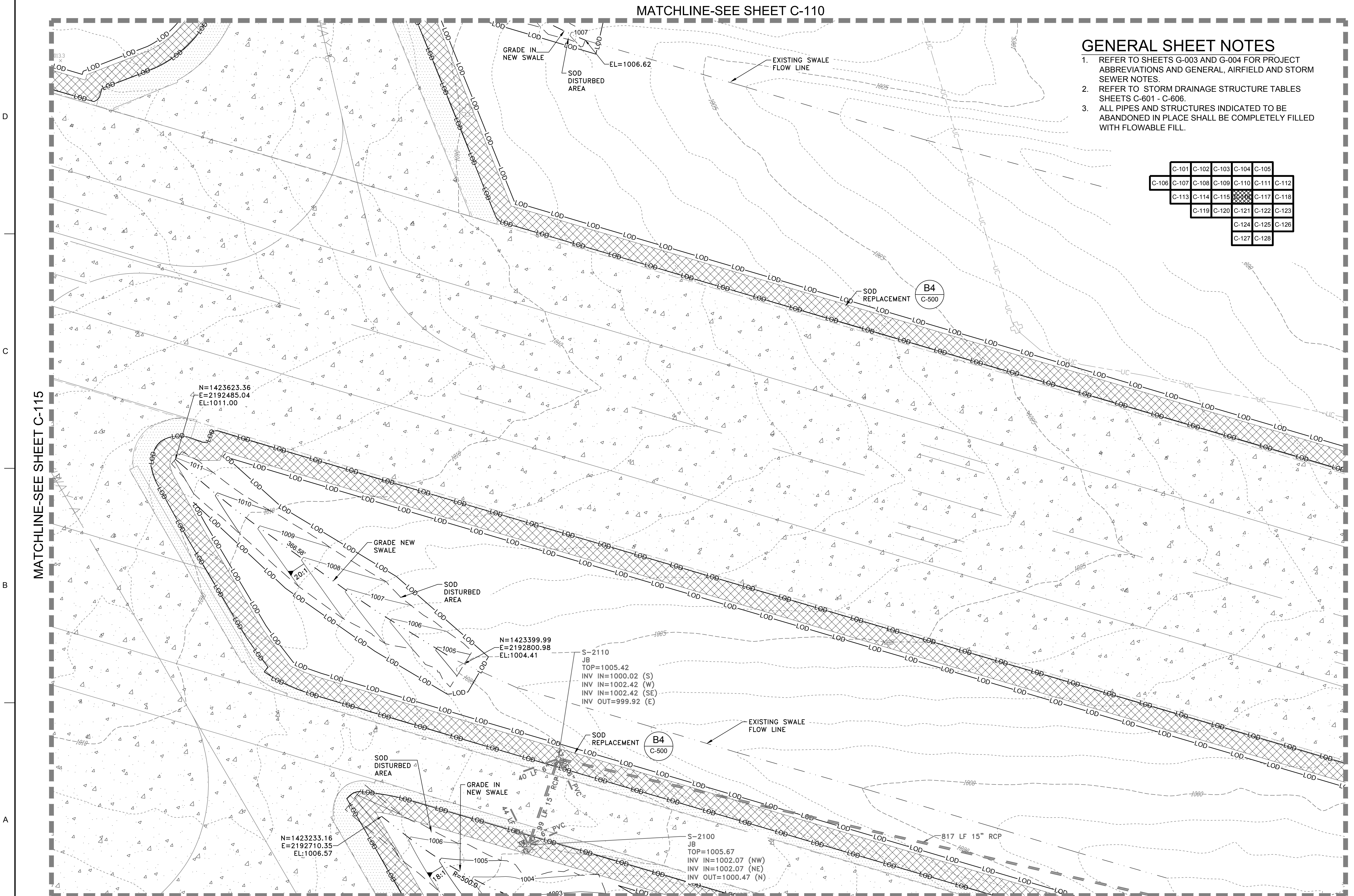
MATCHLINE-SEE SHEET C-121

**STORM DRAINAGE PLAN**

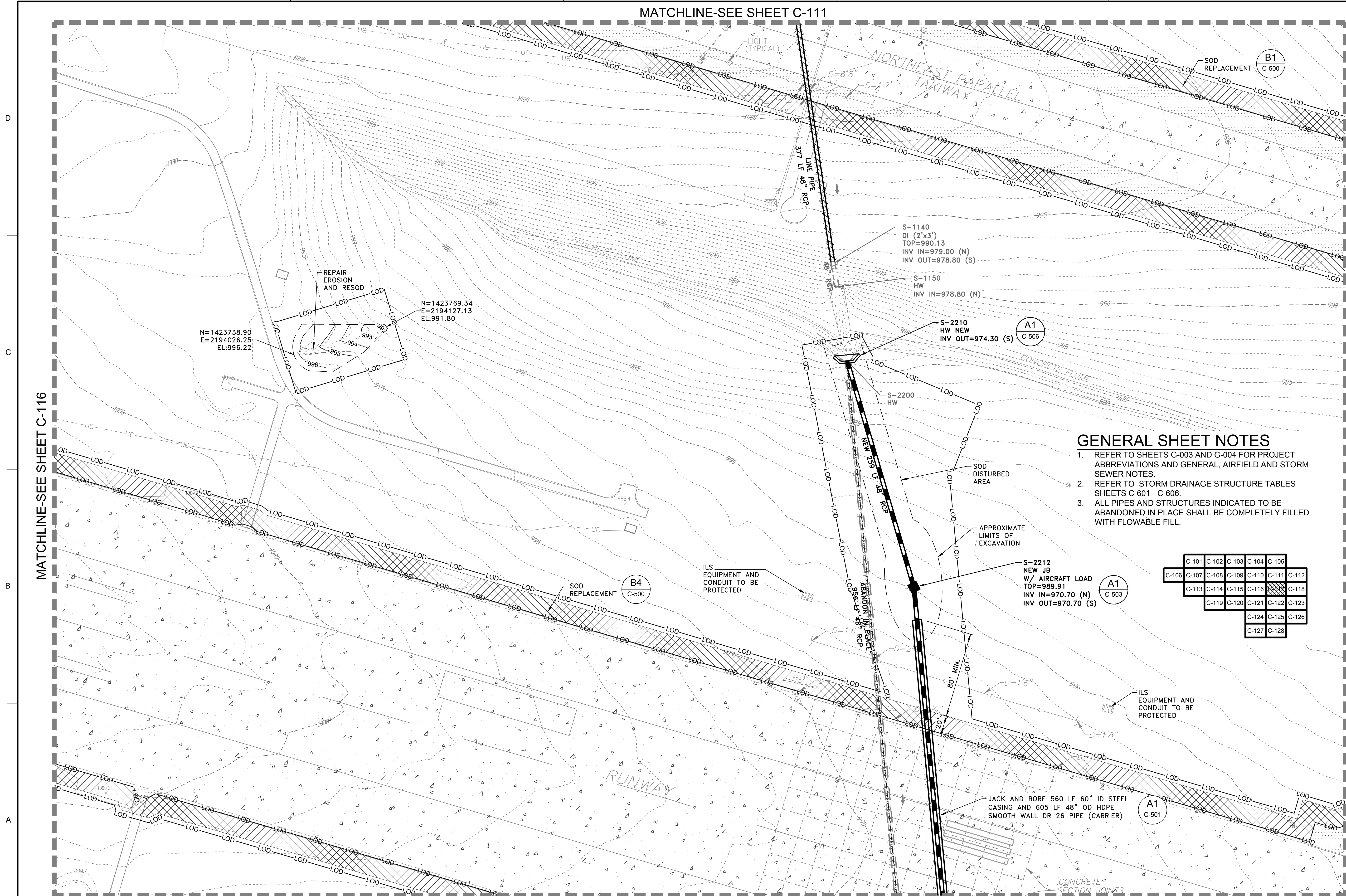
SCALE: 1" = 50'



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MATCHLINE-SEE SHEET C-111



**GENERAL SHEET NOTES**

1. REFER TO SHEETS G-003 AND G-004 FOR PROJECT ABBREVIATIONS AND GENERAL, AIRFIELD AND STORM SEWER NOTES.
2. REFER TO STORM DRAINAGE STRUCTURE TABLES SHEETS C-601 - C-606.
3. ALL PIPES AND STRUCTURES INDICATED TO BE ABANDONED IN PLACE SHALL BE COMPLETELY FILLED WITH FLOWABLE FILL.

C-101	C-102	C-103	C-104	C-105		
C-106	C-107	C-108	C-109	C-110	C-111	C-112
C-113	C-114	C-115	C-116	C-117	C-118	C-119
C-120	C-121	C-122	C-123	C-124	C-125	C-126
C-127	C-128					



**STORM DRAINAGE PLAN**

SCALE: 1" = 50'

MATCHLINE-SEE SHEET C-122

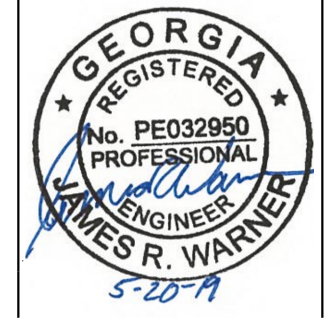
MATCHLINE-SEE SHEET C-116

MATCHLINE-SEE SHEET C-118

FILE PATH: O:\PROJECTS\ORLANDO\OR11652200-11652-18007\CAD\SHEET FILES\470564-C-101\_PLOTTED\_05/02/2019 BY: MATTHEWS, RUSS



James R. Warner, P.E.  
P.E. No. 032950, GA



MARK	DESCRIPTION	DATE

DESIGNED BY: J. WARNER	ISSUE DATE: 05/02/2019
CHECKED BY: B. MATTHEWS	SOLICITATION NO.:
SUBMITTED BY: S. BAILEY	CONTRACT NO.:
FILE NAME: 470564-C-101.dwg	FILE NUMBER:
ANSI D:	ANSI D:

**U.S. ARMY CORPS OF ENGINEERS**  
LOUISVILLE DISTRICT  
LOUISVILLE, KENTUCKY 40210-0059

**POND**  
TETRA TECH, INC.  
LOUISVILLE, KENTUCKY 40202  
P.O. BOX 244-0008  
FAX: (502) 244-0008  
WWW.TETRA-TECH.COM

DOBBINS AIRFIELD STORM WATER SYSTEM PHASE 2  
DOBBINS AIR RESERVE BASE, GEORGIA  
PROJECT NO.: FGWB 04-0014P2A/B  
P#: 470564

**STORM DRAINAGE PLAN**

SHEET ID  
**C-117**



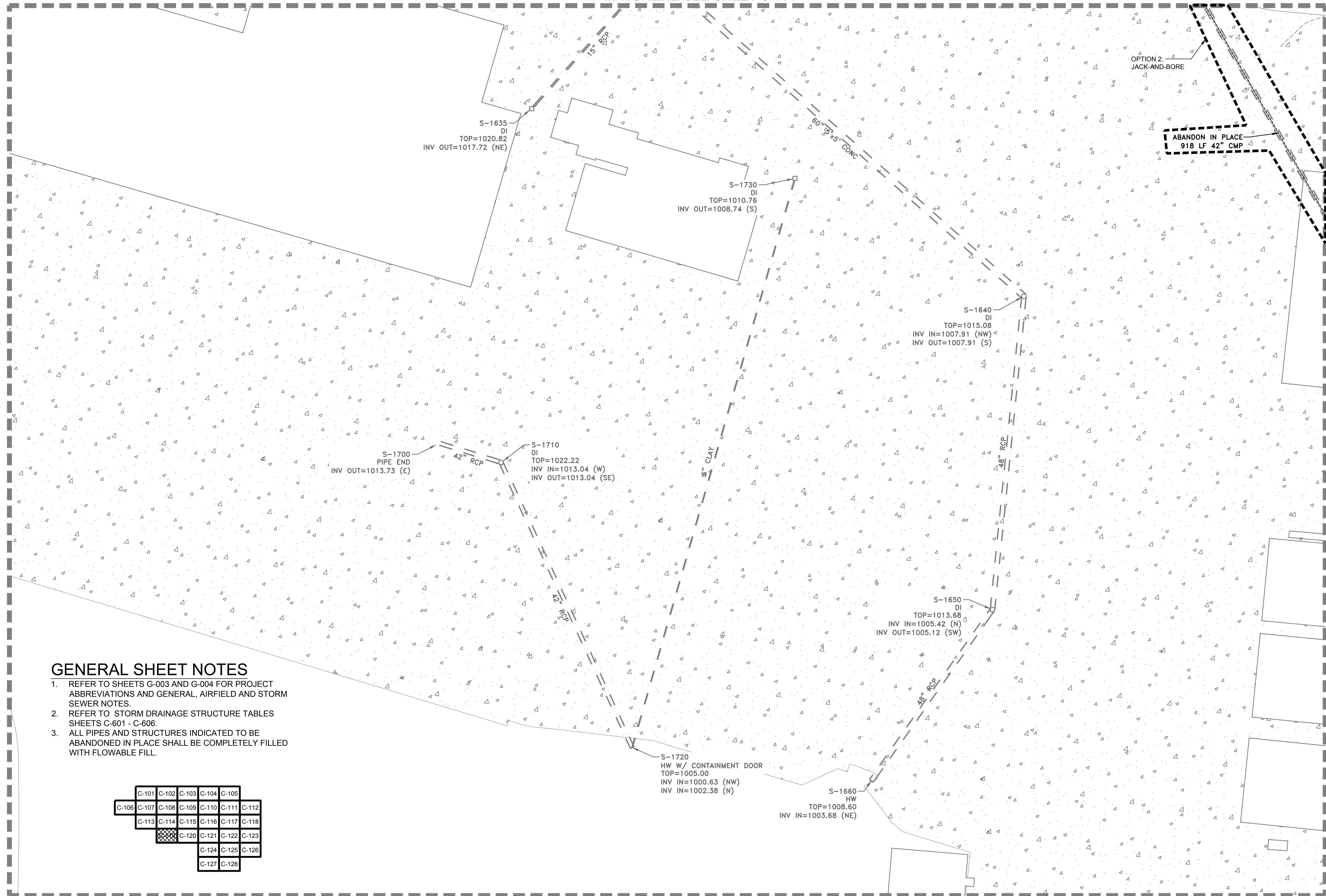
MATCHLINE-SEE SHEET C-114

D

C

B

A



MATCHLINE-SEE SHEET C-120

**GENERAL SHEET NOTES**

1. REFER TO SHEETS G-003 AND G-004 FOR PROJECT ABBREVIATIONS AND GENERAL, AIRFIELD AND STORM SEWER NOTES.
2. REFER TO STORM DRAINAGE STRUCTURE TABLES SHEETS C-601 - C-606.
3. ALL PIPES AND STRUCTURES INDICATED TO BE ABANDONED IN PLACE SHALL BE COMPLETELY FILLED WITH FLOWABLE FILL.

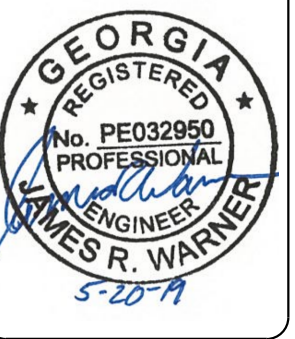
C-101	C-102	C-103	C-104	C-105		
C-106	C-107	C-108	C-109	C-110	C-111	C-112
C-113	C-114	C-115	C-116	C-117	C-118	
	C-120	C-121	C-122	C-123		
	C-124	C-125	C-126			
	C-127	C-128				

**STORM DRAINAGE PLAN**

SCALE: 1" = 50'



James R. Warner, P.E.  
P.E. No. 032950, GA



MARK	DESCRIPTION	DATE

DESIGNED BY: J. WARNER	ISSUE DATE: 05/20/2019
CHECKED BY: B. MATTHEWS	SOLICITATION NO.:
SUBMITTED BY: S. BAILEY	CONTRACT NO.:
FILE NAME: 470564-C-101.dwg	FILE NUMBER:
ANSID:	

**U.S. ARMY CORPS OF ENGINEERS**  
LOUISVILLE DISTRICT  
LOUISVILLE, KENTUCKY 40210-0059

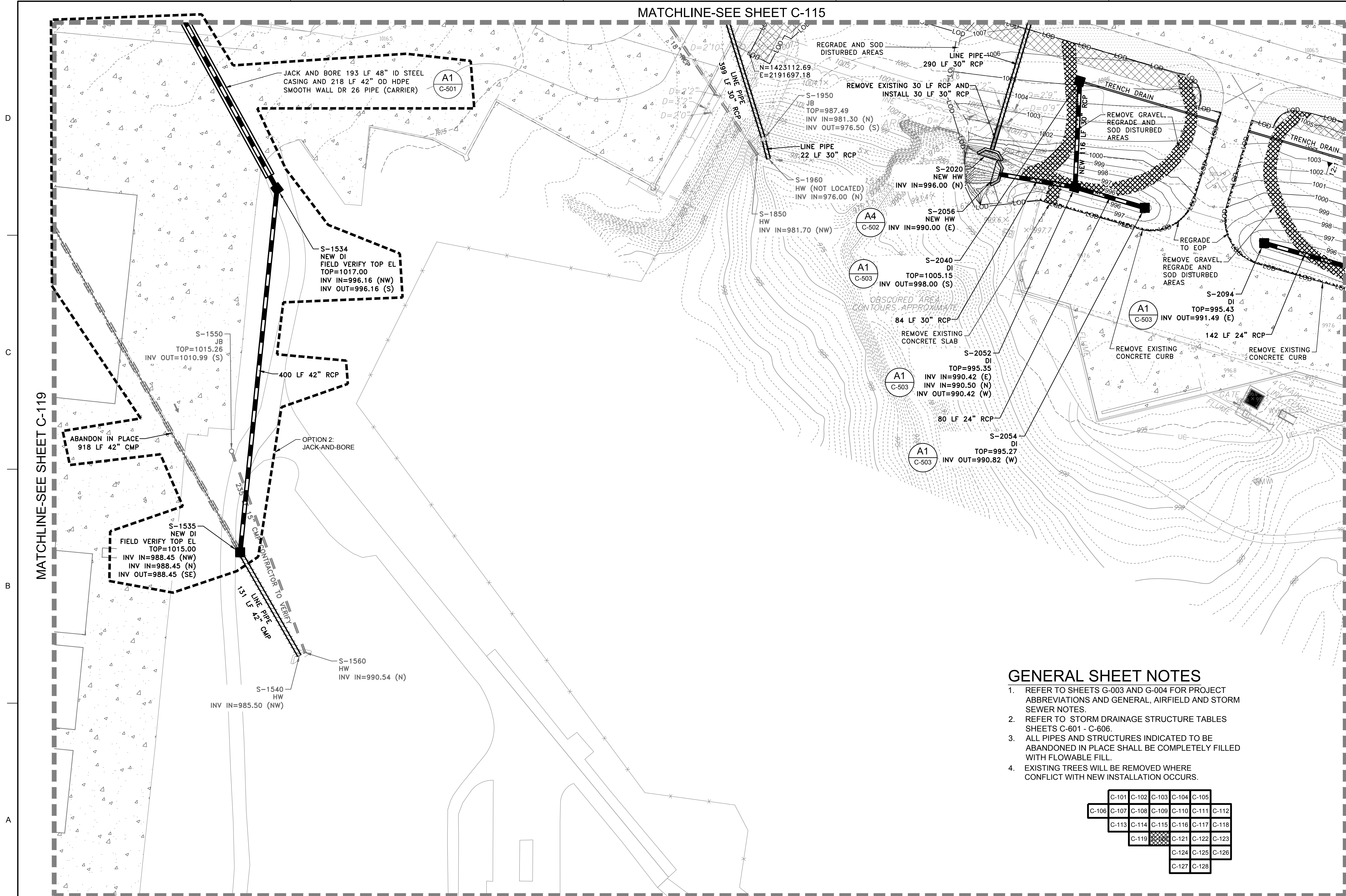
**POND**  
TETRA TECH, INC.  
LOUISVILLE, KENTUCKY 40202  
P.O. BOX 244-2008  
FREDERICK, MD 21704

DOBBINS AIRFIELD STORM WATER SYSTEM PHASE 2  
DOBBINS AIR RESERVE BASE, GEORGIA  
PROJECT NO.: FGWB 04-0014P2A/B  
P#: 470564

**STORM DRAINAGE PLAN**

SHEET ID  
**C-119**

MATCHLINE-SEE SHEET C-115



MATCHLINE-SEE SHEET C-119

MATCHLINE-SEE SHEET C-121

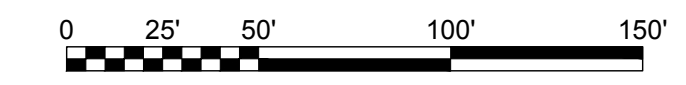
**GENERAL SHEET NOTES**

1. REFER TO SHEETS G-003 AND G-004 FOR PROJECT ABBREVIATIONS AND GENERAL, AIRFIELD AND STORM SEWER NOTES.
2. REFER TO STORM DRAINAGE STRUCTURE TABLES SHEETS C-601 - C-606.
3. ALL PIPES AND STRUCTURES INDICATED TO BE ABANDONED IN PLACE SHALL BE COMPLETELY FILLED WITH FLOWABLE FILL.
4. EXISTING TREES WILL BE REMOVED WHERE CONFLICT WITH NEW INSTALLATION OCCURS.

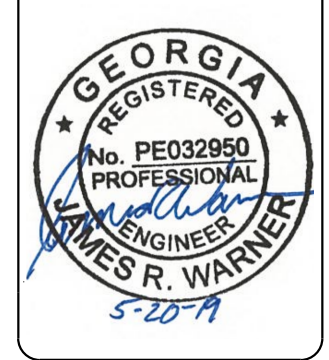
C-101	C-102	C-103	C-104	C-105		
C-106	C-107	C-108	C-109	C-110	C-111	C-112
C-113	C-114	C-115	C-116	C-117	C-118	
C-119		C-121	C-122	C-123		
		C-124	C-125	C-126		
		C-127	C-128			

**STORM DRAINAGE PLAN**

SCALE: 1" = 50'



James R. Warner, P.E.  
P.E. No. 032950, GA



MARK	DESCRIPTION	DATE

DESIGNED BY: J. WARNER	ISSUE DATE: 05/20/2019
CHECKED BY: B. MATTHEWS	SOLICITATION NO.:
SUBMITTED BY: S. BAILEY	CONTRACT NO.:
FILE NAME: 470564-C-101.dwg	FILE NUMBER:

**U.S. ARMY CORPS OF ENGINEERS**  
LOUISVILLE DISTRICT  
LOUISVILLE, KENTUCKY 40210-0059

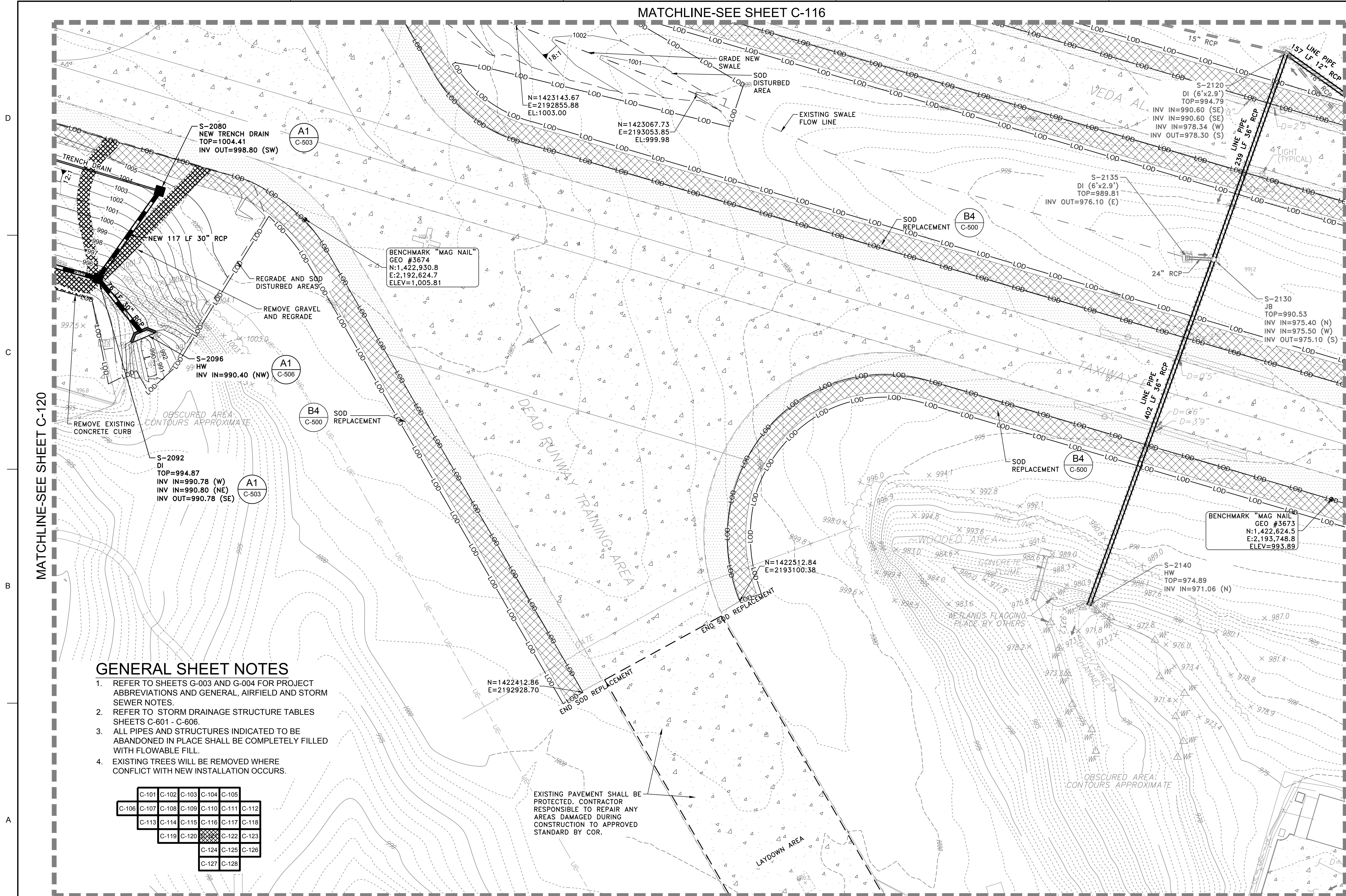
**POND**  
TETRA TECH, INC.  
2800 PARSONS AVE.  
LOUISVILLE, KENTUCKY 40202  
PH: (502) 254-4200  
FAX: (502) 254-1256  
WWW.TETRA-TECH.COM

DOBBINS AIRFIELD STORM WATER SYSTEM PHASE 2  
DOBBINS AIR RESERVE BASE, GEORGIA  
PROJECT NO.: FGWB 04-0014P2A/B  
P#: 470564

**STORM DRAINAGE PLAN**

SHEET ID  
**C-120**

MATCHLINE-SEE SHEET C-116



**GENERAL SHEET NOTES**

1. REFER TO SHEETS G-003 AND G-004 FOR PROJECT ABBREVIATIONS AND GENERAL, AIRFIELD AND STORM SEWER NOTES.
2. REFER TO STORM DRAINAGE STRUCTURE TABLES SHEETS C-601 - C-606.
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4. EXISTING TREES WILL BE REMOVED WHERE CONFLICT WITH NEW INSTALLATION OCCURS.

C-101	C-102	C-103	C-104	C-105		
C-106	C-107	C-108	C-109	C-110	C-111	C-112
C-113	C-114	C-115	C-116	C-117	C-118	
C-119	C-120	C-121	C-122	C-123		
C-124	C-125	C-126				
C-127	C-128					

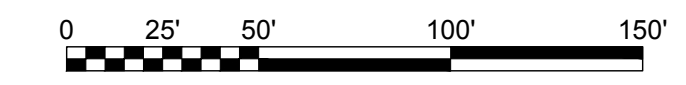
EXISTING PAVEMENT SHALL BE PROTECTED. CONTRACTOR RESPONSIBLE TO REPAIR ANY AREAS DAMAGED DURING CONSTRUCTION TO APPROVED STANDARD BY COR.

MATCHLINE-SEE SHEET C-122

MATCHLINE-SEE SHEET C-124

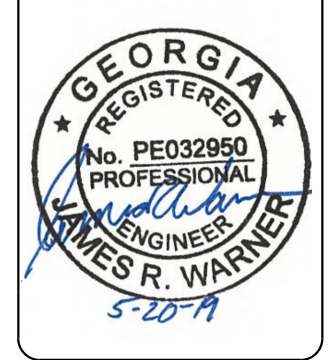
**STORM DRAINAGE PLAN**

SCALE: 1" = 50'



US Army Corps of Engineers  
Louisville District

James R. Warner, P.E.  
P.E. No. 032950, GA



MARK	DESCRIPTION	DATE

DESIGNED BY: J. WARNER	ISSUE DATE: 05/20/2019
CHECKED BY: B. MATTHEWS	SOLICITATION NO.:
SUBMITTED BY: S. BAILEY	CONTRACT NO.:
FILE NAME: 470564-C-101.dwg	FILE NUMBER:

U.S. ARMY CORPS OF ENGINEERS  
LOUISVILLE DISTRICT  
LOUISVILLE, KENTUCKY 40210-0059

**POND**  
TETRA TECH, INC.  
Louisville, Kentucky 40202  
www.tetra-tech.com

DOBBINS AIRFIELD STORM WATER SYSTEM PHASE 2  
DOBBINS AIR RESERVE BASE, GEORGIA  
PROJECT NO.: FGWB 04-0014P2A/B  
P#: 470564

**STORM DRAINAGE PLAN**

SHEET ID  
**C-121**

MATCHLINE-SEE SHEET C-117

**GENERAL SHEET NOTES**

1. REFER TO SHEETS G-003 AND G-004 FOR PROJECT ABBREVIATIONS AND GENERAL, AIRFIELD AND STORM SEWER NOTES.
2. REFER TO STORM DRAINAGE STRUCTURE TABLES SHEETS C-601 - C-606.
3. ALL PIPES AND STRUCTURES INDICATED TO BE ABANDONED IN PLACE SHALL BE COMPLETELY FILLED WITH FLOWABLE FILL.

C-101	C-102	C-103	C-104	C-105
C-106	C-107	C-108	C-109	C-110
C-113	C-114	C-115	C-116	C-117
C-119	C-120	C-121	C-122	C-123
C-124	C-125	C-126		
C-127	C-128			

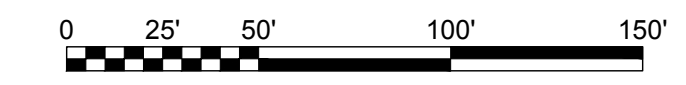
MATCHLINE-SEE SHEET C-121

MATCHLINE-SEE SHEET C-123

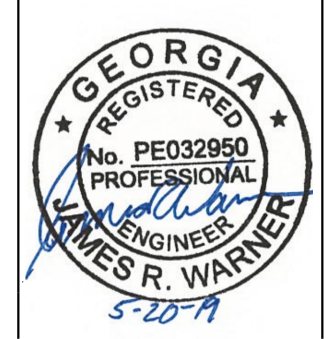
MATCHLINE-SEE SHEET C-125

**STORM DRAINAGE PLAN**

SCALE: 1" = 50'



James R. Warner, P.E.  
P.E. No. 032950, GA



MARK	DESCRIPTION	DATE

DESIGNED BY: J. WARNER	ISSUE DATE: 05/20/2019
CHECKED BY: B. MATTHEWS	SOLICITATION NO.:
SUBMITTED BY: S. BAILEY	CONTRACT NO.:
FILE NAME: 470564-C-101.dwg	FILE NUMBER:
SIZE:	ANSI:

**U.S. ARMY CORPS OF ENGINEERS**  
LOUISVILLE DISTRICT  
LOUISVILLE, KENTUCKY 40210-0059

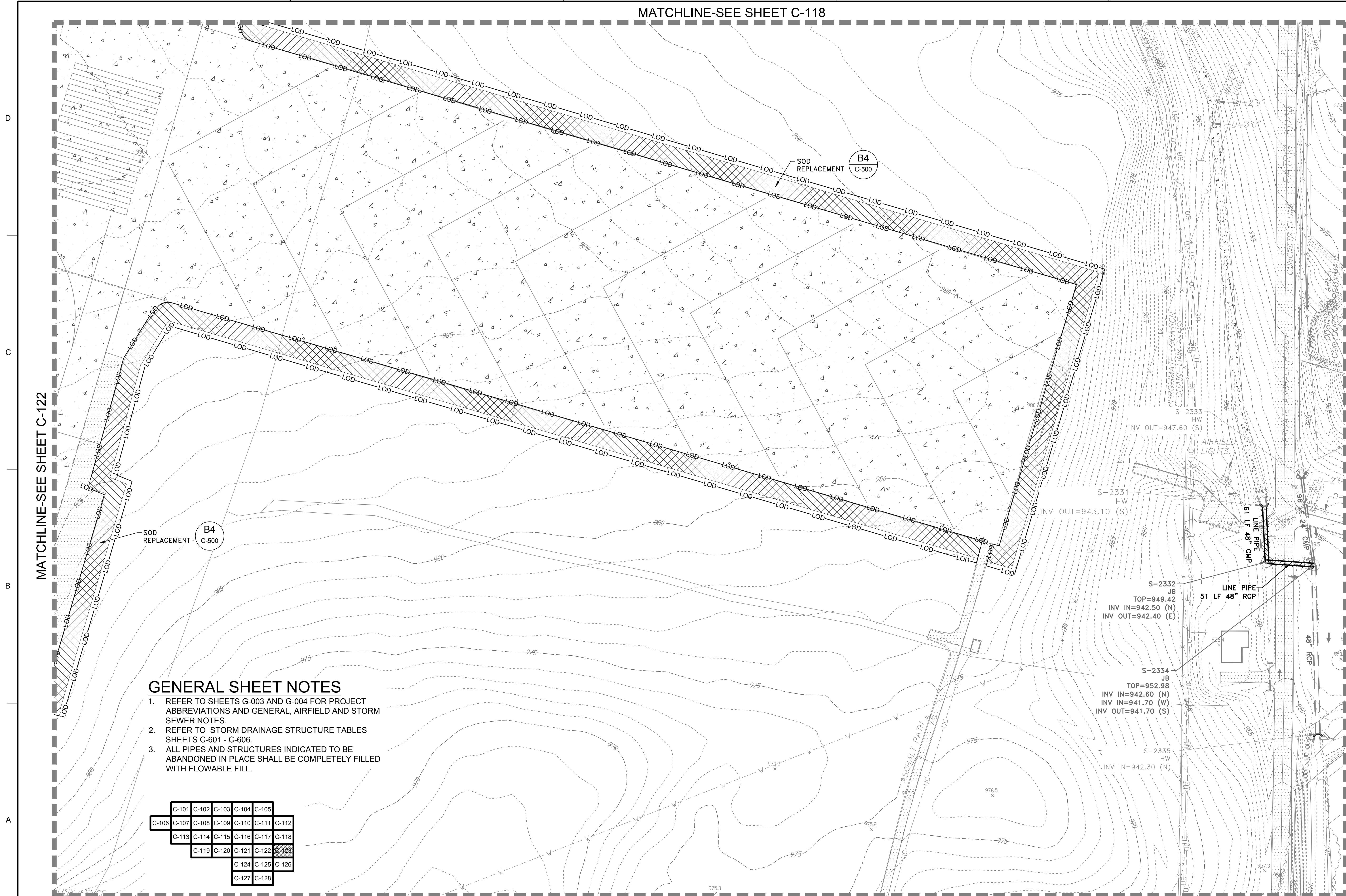
**POND**  
TETRA TECH, INC.  
LOUISVILLE, KENTUCKY 40202  
PH: (502) 254-2000  
WWW.TETRA-TECH.COM

DOBBINS AIRFIELD STORM WATER SYSTEM PHASE 2  
DOBBINS AIR RESERVE BASE, GEORGIA  
PROJECT NO.: FGWB 04-0014P2A/B  
P#: 470564

SHEET ID  
**C-122**

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MATCHLINE-SEE SHEET C-118



**GENERAL SHEET NOTES**

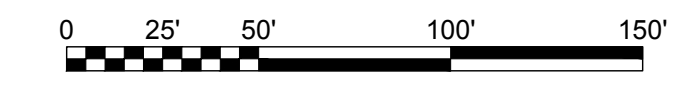
1. REFER TO SHEETS G-003 AND G-004 FOR PROJECT ABBREVIATIONS AND GENERAL, AIRFIELD AND STORM SEWER NOTES.
2. REFER TO STORM DRAINAGE STRUCTURE TABLES SHEETS C-601 - C-606.
3. ALL PIPES AND STRUCTURES INDICATED TO BE ABANDONED IN PLACE SHALL BE COMPLETELY FILLED WITH FLOWABLE FILL.

C-101	C-102	C-103	C-104	C-105
C-106	C-107	C-108	C-109	C-110
C-111	C-112	C-113	C-114	C-115
C-116	C-117	C-118	C-119	C-120
C-121	C-122	C-123	C-124	C-125
C-126	C-127	C-128		

MATCHLINE-SEE SHEET C-126

**STORM DRAINAGE PLAN**

SCALE: 1" = 50'



FILE PATH: O:\PROJECTS\SCORLANDO\1165220\11652-18007\CAD\DWG\FILES\470584-C-101\_PLOTTED\_05/02/2019 BY: MATTHEWS, RUSS

US Army Corps of Engineers  
Louisville District

James R. Warner, P.E.  
P.E. No. 032950, GA

MARK	DESCRIPTION	DATE

DESIGNED BY: J. WARNER	ISSUE DATE: 05/20/2019
CHECKED BY: B. MATTHEWS	SOLICITATION NO.:
SUBMITTED BY: S. BAILEY	CONTRACT NO.:
FILE NAME: 470584-C-101.dwg	FILE NUMBER:
ANSI D:	

**U.S. ARMY CORPS OF ENGINEERS**  
LOUISVILLE DISTRICT

LOUISVILLE, KENTUCKY 40210-0059

**POND**

TETRA TECH, INC.  
Louisville, Kentucky 40202  
P.O. Box 244-2008  
Phone: 502-244-2008  
www.tetra-tech.com

DOBBINS AIRFIELD STORM WATER SYSTEM PHASE 2  
DOBBINS AIR RESERVE BASE, GEORGIA

PROJECT NO.: FGWB 04-0014P2A/B  
P#: 470584

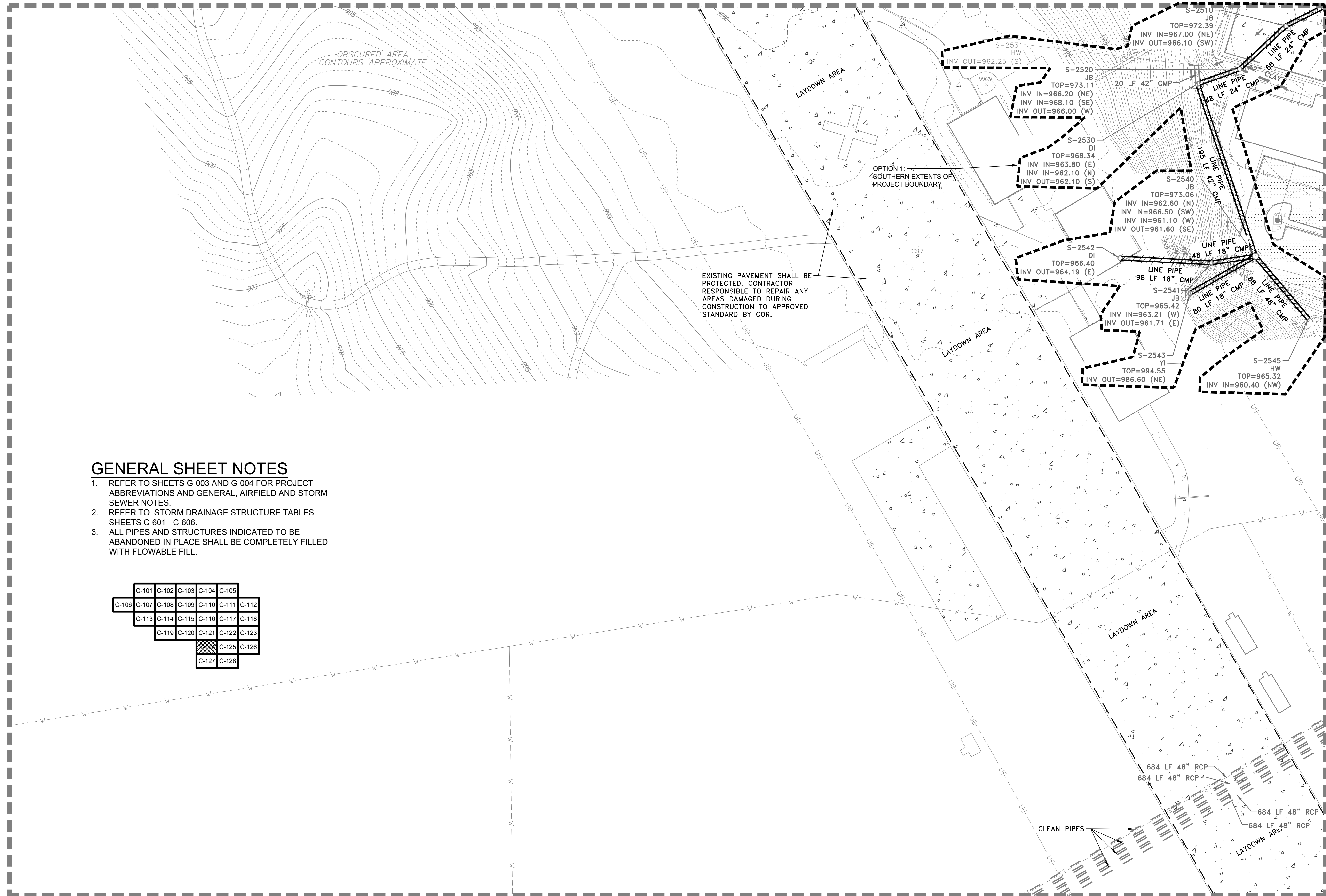
**STORM DRAINAGE PLAN**

SHEET ID

**C-123**



MATCHLINE-SEE SHEET C-121



**GENERAL SHEET NOTES**

- REFER TO SHEETS G-003 AND G-004 FOR PROJECT ABBREVIATIONS AND GENERAL, AIRFIELD AND STORM SEWER NOTES.
- REFER TO STORM DRAINAGE STRUCTURE TABLES SHEETS C-601 - C-606.
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C-106	C-107	C-108	C-109	C-110
C-111	C-112	C-113	C-114	C-115
C-116	C-117	C-118	C-119	C-120
C-121	C-122	C-123	C-124	C-125
C-126	C-127	C-128		

EXISTING PAVEMENT SHALL BE PROTECTED. CONTRACTOR RESPONSIBLE TO REPAIR ANY AREAS DAMAGED DURING CONSTRUCTION TO APPROVED STANDARD BY COR.

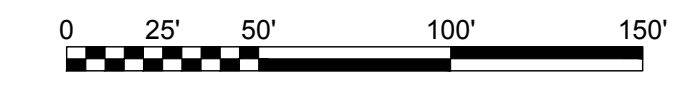
OPTION 1:  
SOUTHERN EXTENTS OF PROJECT BOUNDARY

MATCHLINE-SEE SHEET C-125

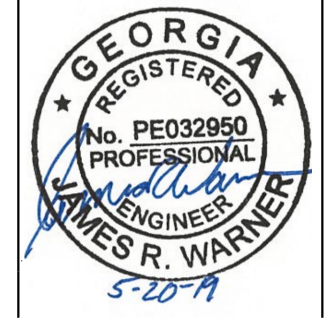
MATCHLINE-SEE SHEET C-127

**STORM DRAINAGE PLAN**

SCALE: 1" = 50'



James R. Warner, P.E.  
P.E. No. 032950, GA



MARK	DESCRIPTION	DATE

DESIGNED BY: J. WARNER	ISSUE DATE: 05/20/2019
CHECKED BY: B. MATTHEWS	SOLICITATION NO.:
SUBMITTED BY: S. BAILEY	CONTRACT NO.:
FILE NAME: 470584-C-101.dwg	FILE NUMBER:
ANSI D	

**U.S. ARMY CORPS OF ENGINEERS**  
LOUISVILLE DISTRICT  
LOUISVILLE, KENTUCKY 40210-0059

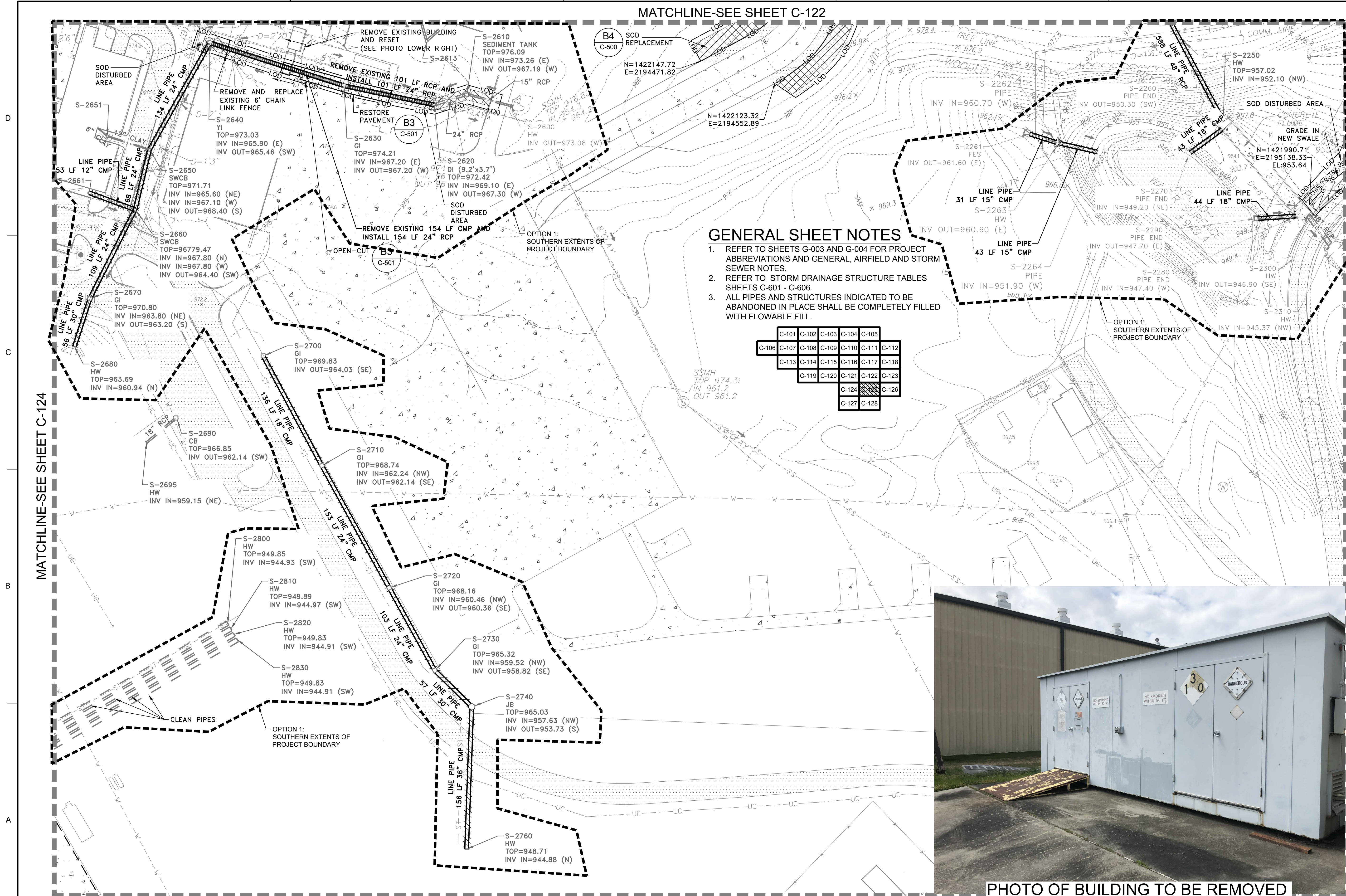
**POND**  
TETRA TECH, INC.  
LOUISVILLE, KENTUCKY 40202  
3800 PARSONS WAY, SUITE 200  
FLORENCE, KY 40302  
TEL: 502-254-4200  
WWW.TETRA-TECH.COM

DOBBINS AIRFIELD STORM WATER SYSTEM PHASE 2  
DOBBINS AIR RESERVE BASE, GEORGIA  
PROJECT NO.: FGWB 04-0014P2A/B  
P#: 470584

**STORM DRAINAGE PLAN**

SHEET ID  
**C-124**

MATCHLINE-SEE SHEET C-122



GENERAL SHEET NOTES

1. REFER TO SHEETS G-003 AND G-004 FOR PROJECT ABBREVIATIONS AND GENERAL, AIRFIELD AND STORM SEWER NOTES.
2. REFER TO STORM DRAINAGE STRUCTURE TABLES SHEETS C-601 - C-606.
3. ALL PIPES AND STRUCTURES INDICATED TO BE ABANDONED IN PLACE SHALL BE COMPLETELY FILLED WITH FLOWABLE FILL.

C-101	C-102	C-103	C-104	C-105
C-106	C-107	C-108	C-109	C-110
C-111	C-112	C-113	C-114	C-115
C-116	C-117	C-118	C-119	C-120
C-121	C-122	C-123	C-124	C-125
C-126	C-127	C-128		

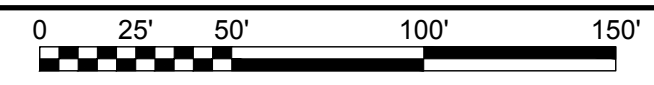


PHOTO OF BUILDING TO BE REMOVED AND RESET BACK IN PLACE

MATCHLINE-SEE SHEET C-128

STORM DRAINAGE PLAN

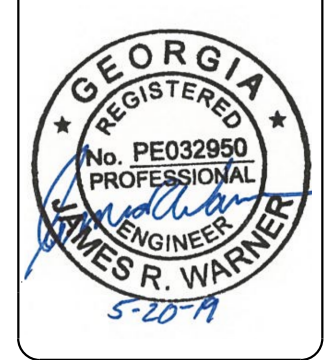
SCALE: 1" = 50'



MATCHLINE-SEE SHEET C-126



James R. Warner, P.E. P.E. No. 032950, GA



MARK	DESCRIPTION	DATE

ISSUE DATE:	05/20/2019
DESIGNED BY:	J. WARNER
CHECKED BY:	B. MATTHEWS
FILE NUMBER:	470564-C-101.dwg
CONTRACT NO.:	40210-0059
FILE NAME:	470564-C-101.dwg

U.S. ARMY CORPS OF ENGINEERS  
LOUISVILLE DISTRICT  
LOUISVILLE, KENTUCKY 40210-0059

DESIGNED BY: J. WARNER  
CHECKED BY: B. MATTHEWS  
SUBMITTED BY: S. BAILEY

TETRA TECH, INC.  
LOUISVILLE, KENTUCKY 40202  
3800 PARSONS AVE.  
FLORENCE, KY 40302  
TEL: 502-254-2000  
WWW.TETRA-TECH.COM

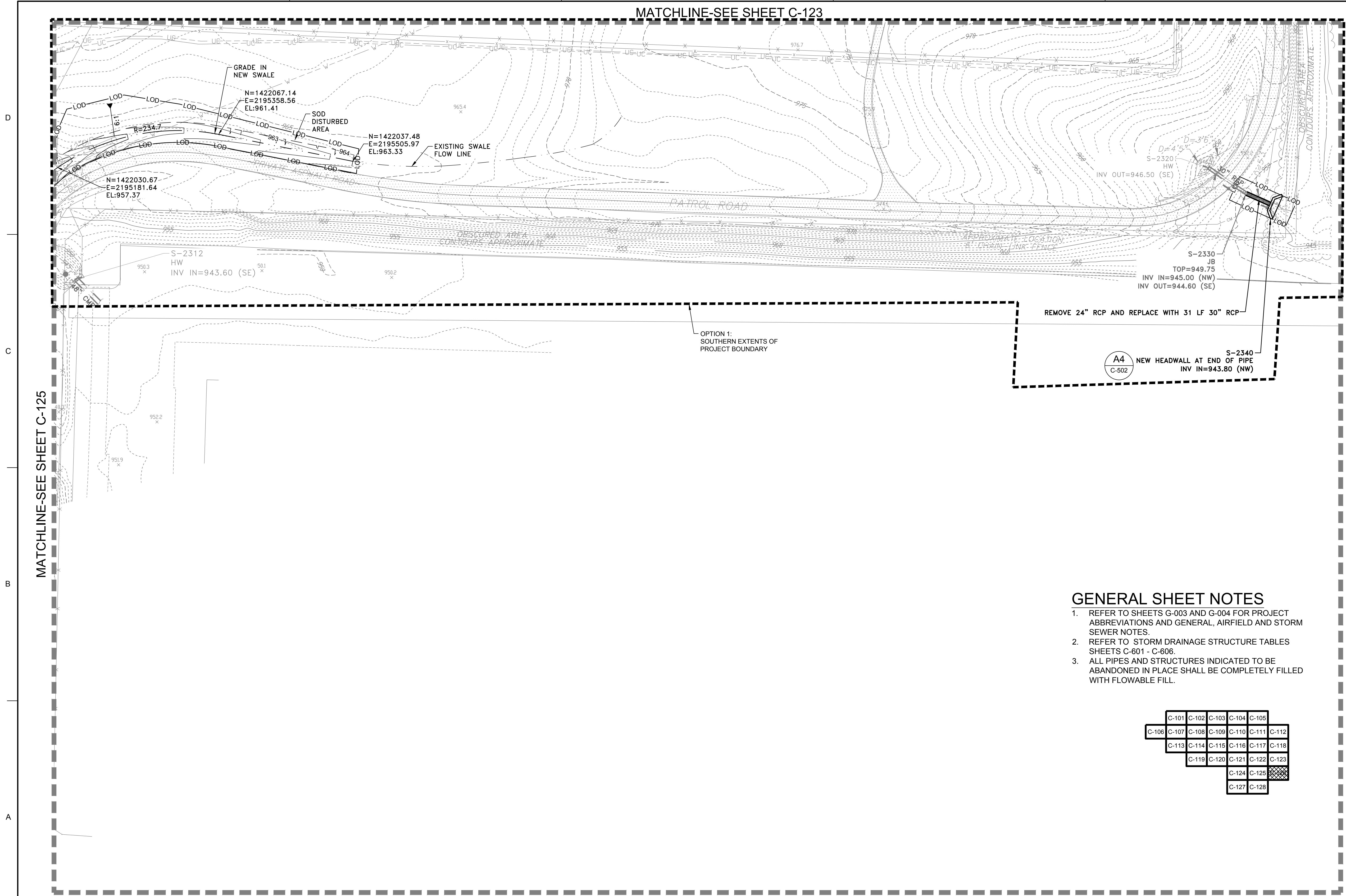
DOBBINS AIRFIELD STORM WATER SYSTEM PHASE 2  
DOBBINS AIR RESERVE BASE, GEORGIA  
PROJECT NO.: FGWB 04-0014P2A/B  
P#: 470564

STORM DRAINAGE PLAN

SHEET ID  
C-125

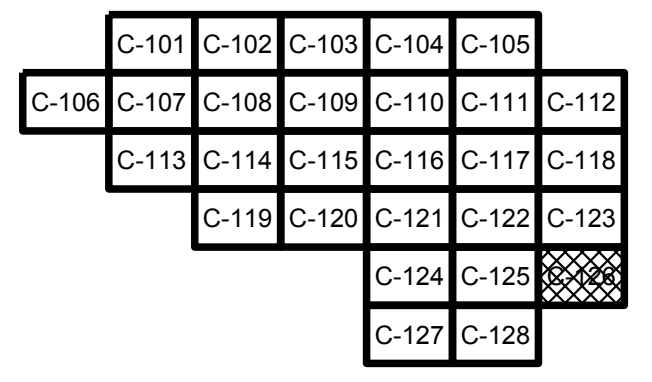
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MATCHLINE-SEE SHEET C-123



**GENERAL SHEET NOTES**

1. REFER TO SHEETS G-003 AND G-004 FOR PROJECT ABBREVIATIONS AND GENERAL, AIRFIELD AND STORM SEWER NOTES.
2. REFER TO STORM DRAINAGE STRUCTURE TABLES SHEETS C-601 - C-606.
3. ALL PIPES AND STRUCTURES INDICATED TO BE ABANDONED IN PLACE SHALL BE COMPLETELY FILLED WITH FLOWABLE FILL.

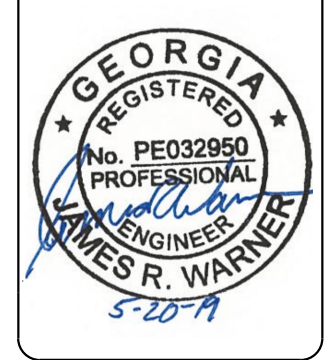


**STORM DRAINAGE PLAN**

SCALE: 1" = 50'



James R. Warner, P.E.  
P.E. No. 032950, GA



MARK	DESCRIPTION	DATE

DESIGNED BY: J. WARNER	ISSUE DATE: 05/20/2019
CHECKED BY: B. MATTHEWS	SOLICITATION NO.:
SUBMITTED BY: S. BAILEY	CONTRACT NO.:
FILE NAME: 470564-C-101.dwg	FILE NUMBER:
ANSI D	SIZE

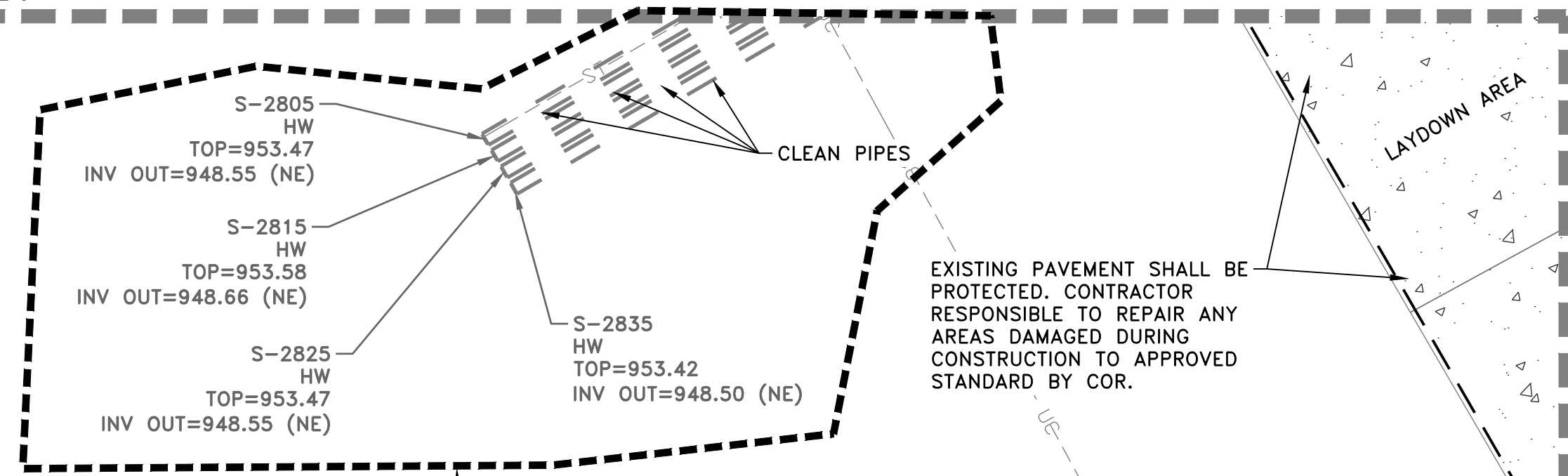
**U.S. ARMY CORPS OF ENGINEERS**  
LOUISVILLE DISTRICT  
LOUISVILLE, KENTUCKY 40210-0059

**TETRA TECH, INC.**  
Louisville, Kentucky 40202  
P.O. Box 254-2098  
Louisville, KY 40202  
www.tetra-tech.com

DOBBINS AIRFIELD STORM WATER SYSTEM PHASE 2  
DOBBINS AIR RESERVE BASE, GEORGIA  
PROJECT NO.: FGWB 04-0014P2A/B  
P#: 470564  
**STORM DRAINAGE PLAN**

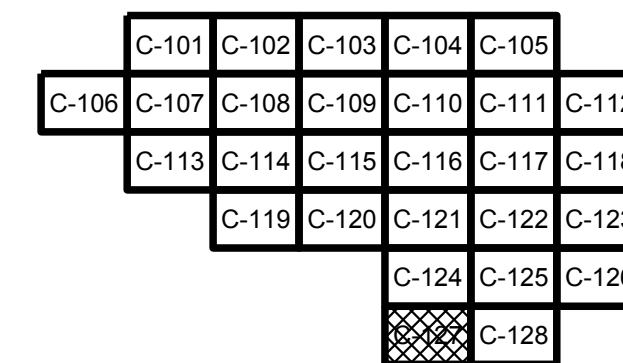
SHEET ID  
**C-126**

MATCHLINE-SEE SHEET C-124



**GENERAL SHEET NOTES**

- REFER TO SHEETS G-003 AND G-004 FOR PROJECT ABBREVIATIONS AND GENERAL, AIRFIELD AND STORM SEWER NOTES.
- REFER TO STORM DRAINAGE STRUCTURE TABLES SHEETS C-601 - C-606.
- ALL PIPES AND STRUCTURES INDICATED TO BE ABANDONED IN PLACE SHALL BE COMPLETELY FILLED WITH FLOWABLE FILL.



**STORM DRAINAGE PLAN**

SCALE: 1" = 50'



MATCHLINE-SEE SHEET C-128

US Army Corps of Engineers  
Louisville District

James R. Warner, P.E.  
P.E. No. 032950, GA

REGISTERED PROFESSIONAL ENGINEER  
No. PE032950  
JAMES R. WARNER  
5-20-19

MARK	DESCRIPTION	DATE

DESIGNED BY: J. WARNER  
CHECKED BY: R. MATTHEWS  
SUBMITTED BY: S. BAILEY

ISSUE DATE: 05/20/2019  
SOLICITATION NO.:  
CONTRACT NO.:  
FILE NUMBER:

FILE NAME: 470564-C-101.dwg  
ANSID: 470564-C-101.dwg

U.S. ARMY CORPS OF ENGINEERS  
LOUISVILLE DISTRICT  
LOUISVILLE, KENTUCKY 40210-0059

TETRA TECH, INC.  
LOUISVILLE, KENTUCKY 40202  
www.tetra-tech.com

POND  
2800 PARKWAY, SUITE 200  
PLACEMINT, KENTUCKY 40380  
PH: (502) 268-4200  
FAX: (502) 268-1155

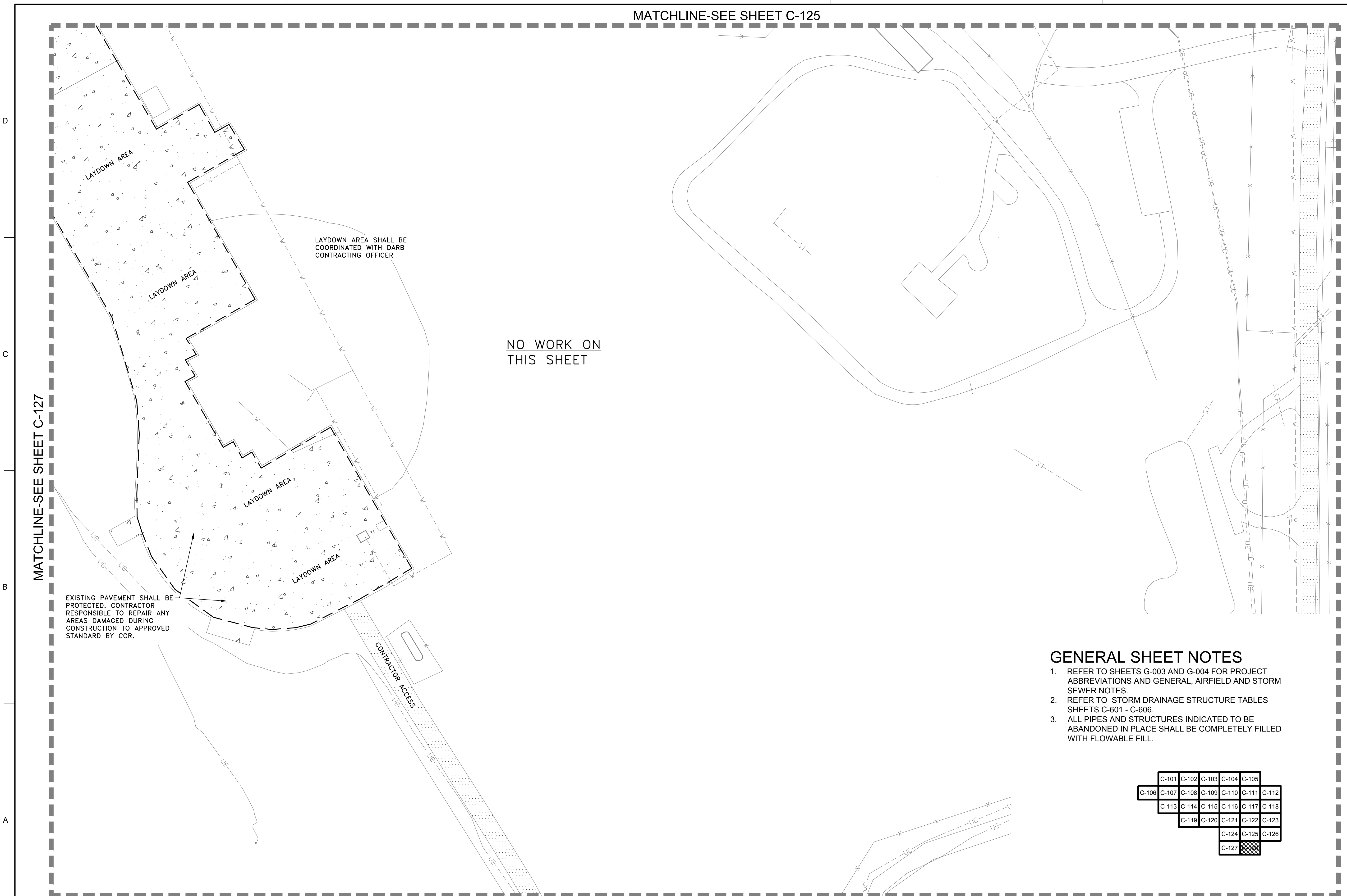
DOBBINS AIRFIELD STORM WATER SYSTEM PHASE 2  
DOBBINS AIR RESERVE BASE, GEORGIA

PROJECT NO.: FGWB 04-0014P2A/B  
P2#: 470564

STORM DRAINAGE PLAN

SHEET ID  
**C-127**

MATCHLINE-SEE SHEET C-125



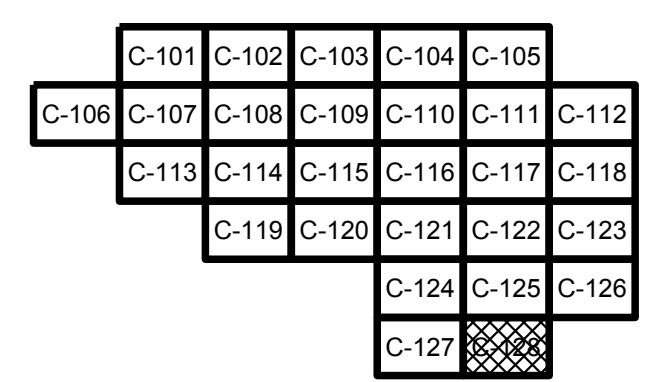
LAYDOWN AREA SHALL BE COORDINATED WITH DARB CONTRACTING OFFICER

NO WORK ON THIS SHEET

EXISTING PAVEMENT SHALL BE PROTECTED. CONTRACTOR RESPONSIBLE TO REPAIR ANY AREAS DAMAGED DURING CONSTRUCTION TO APPROVED STANDARD BY COR.

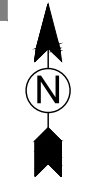
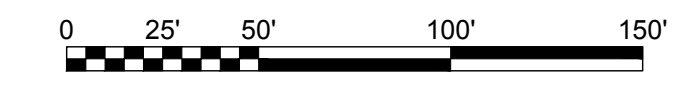
**GENERAL SHEET NOTES**

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2. REFER TO STORM DRAINAGE STRUCTURE TABLES SHEETS C-601 - C-606.
3. ALL PIPES AND STRUCTURES INDICATED TO BE ABANDONED IN PLACE SHALL BE COMPLETELY FILLED WITH FLOWABLE FILL.



**STORM DRAINAGE PLAN**

SCALE: 1" = 50'



US Army Corps of Engineers® Louisville District

James R. Warner, P.E.  
P.E. No. 032950, GA

MARK	DESCRIPTION	DATE

DESIGNED BY: J. WARNER  
CHECKED BY: B. MATTHEWS  
SUBMITTED BY: S. BAILEY

ISSUE DATE: 05/20/2019

SOLICITATION NO.:  
CONTRACT NO.:  
FILE NUMBER:

FILE NAME: 470564-C-101.dwg  
ANSID: 470564-C-101.dwg

**U.S. ARMY CORPS OF ENGINEERS**  
LOUISVILLE DISTRICT  
LOUISVILLE, KENTUCKY 40210-0059

**POND**  
TETRA TECH, INC.  
LOUISVILLE, KENTUCKY 40202  
3800 PARKWAY, SUITE 200  
FLEMINGVILLE, KY 40422  
PH: (606) 544-4998  
FAX: (606) 544-1836  
www.tetra-tech.com

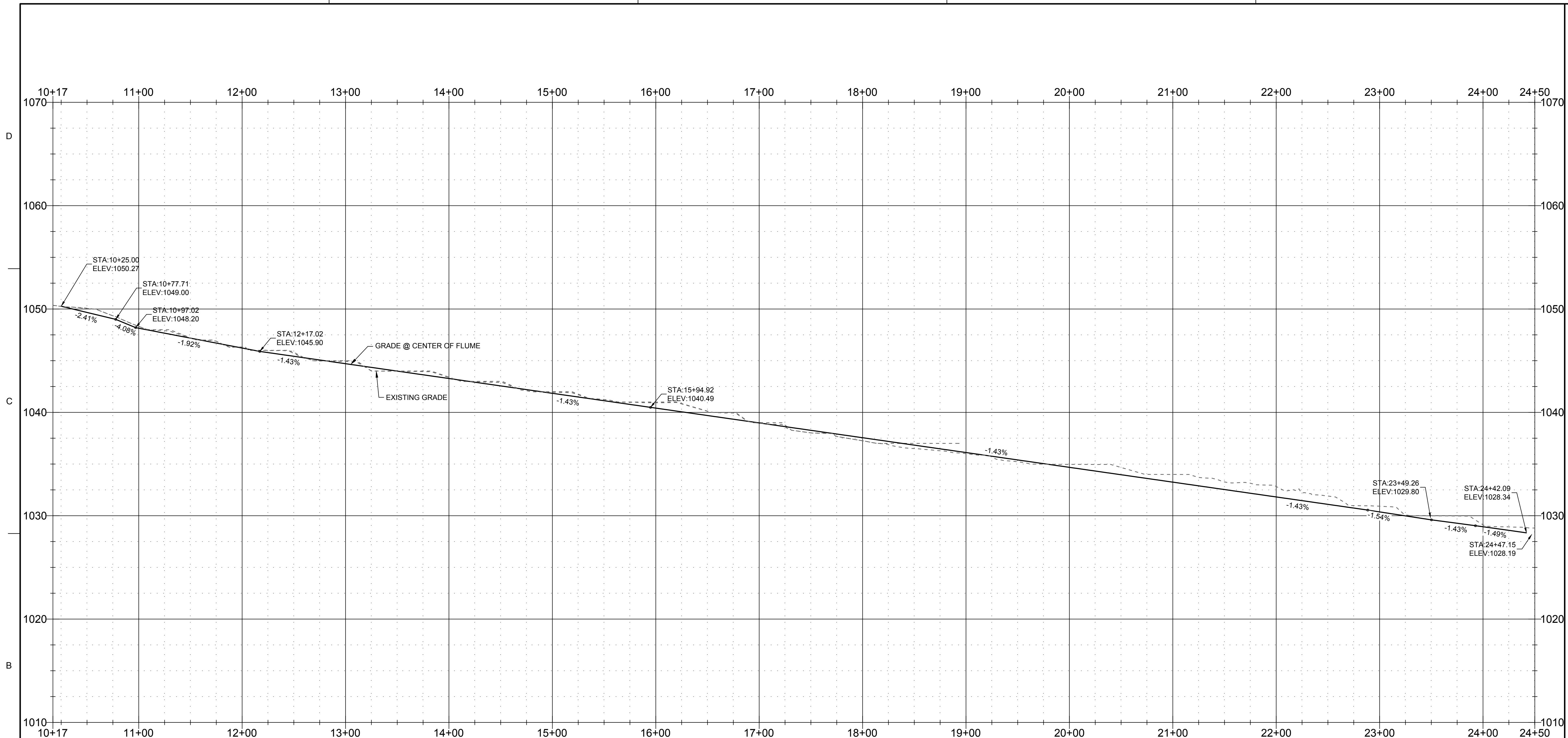
DOBBS AIRFIELD STORM WATER SYSTEM PHASE 2  
DOBBS AIR RESERVE BASE, GEORGIA

PROJECT NO.: FGWB 04-0014P2A/B  
P2#: 470564

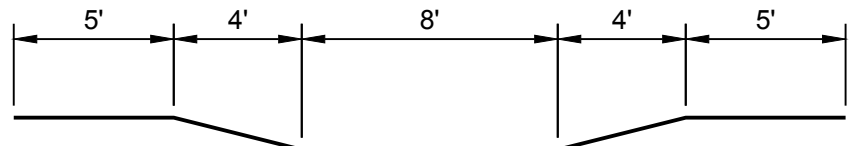
**STORM DRAINAGE PLAN**

SHEET ID

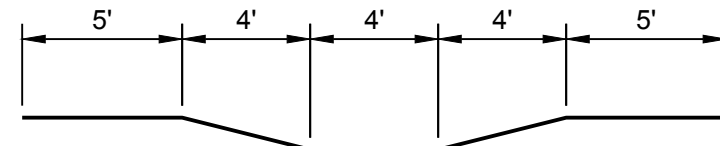
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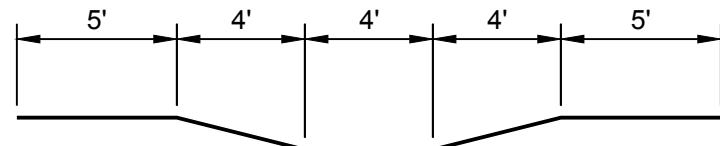
**FLUME A PROFILE VIEW**  
 SCALE: 1" = 50' HOR 1" = 5' VER  
 SEE SHEET C-106, C-107 AND C-113  
 (OPTION 2)



**FLUME A**  
 SEE SHEET C-106, C-107 AND C-113  
 STATION 10+25 TO 24+47.15  
 (OPTION 2)



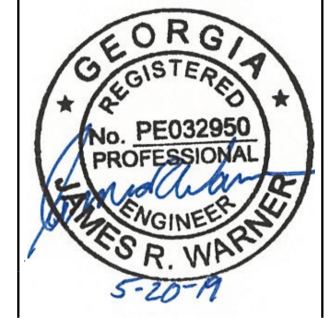
**FLUME B**  
 SEE SHEET C-106  
 STATION 10+47.16 RT106 TO RT13  
 (OPTION 2)



**FLUME C**  
 SEE SHEET C-106  
 STATION 10+41.10 LT 132 TO LT 13  
 (OPTION 2)



James R. Warner, P.E.  
 P.E. No. 032950, GA



MARK	DESCRIPTION	DATE

DESIGNED BY: J. WARNER	ISSUE DATE: 05/20/2019
CHECKED BY: R. MATTHEWS	SOLICITATION NO.:
SUBMITTED BY: S. BAILEY	CONTRACT NO.:
FILE NAME: 470564-C-201.dwg	FILE NUMBER:
SIZE: 470564-C-201.dwg	ANSI ID:

**U.S. ARMY CORPS OF ENGINEERS**  
 LOUISVILLE DISTRICT  
 LOUISVILLE, KENTUCKY 40210-0059

**POND**  
 5800 PARSONS LAKE  
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**TETRA TECH, INC.**  
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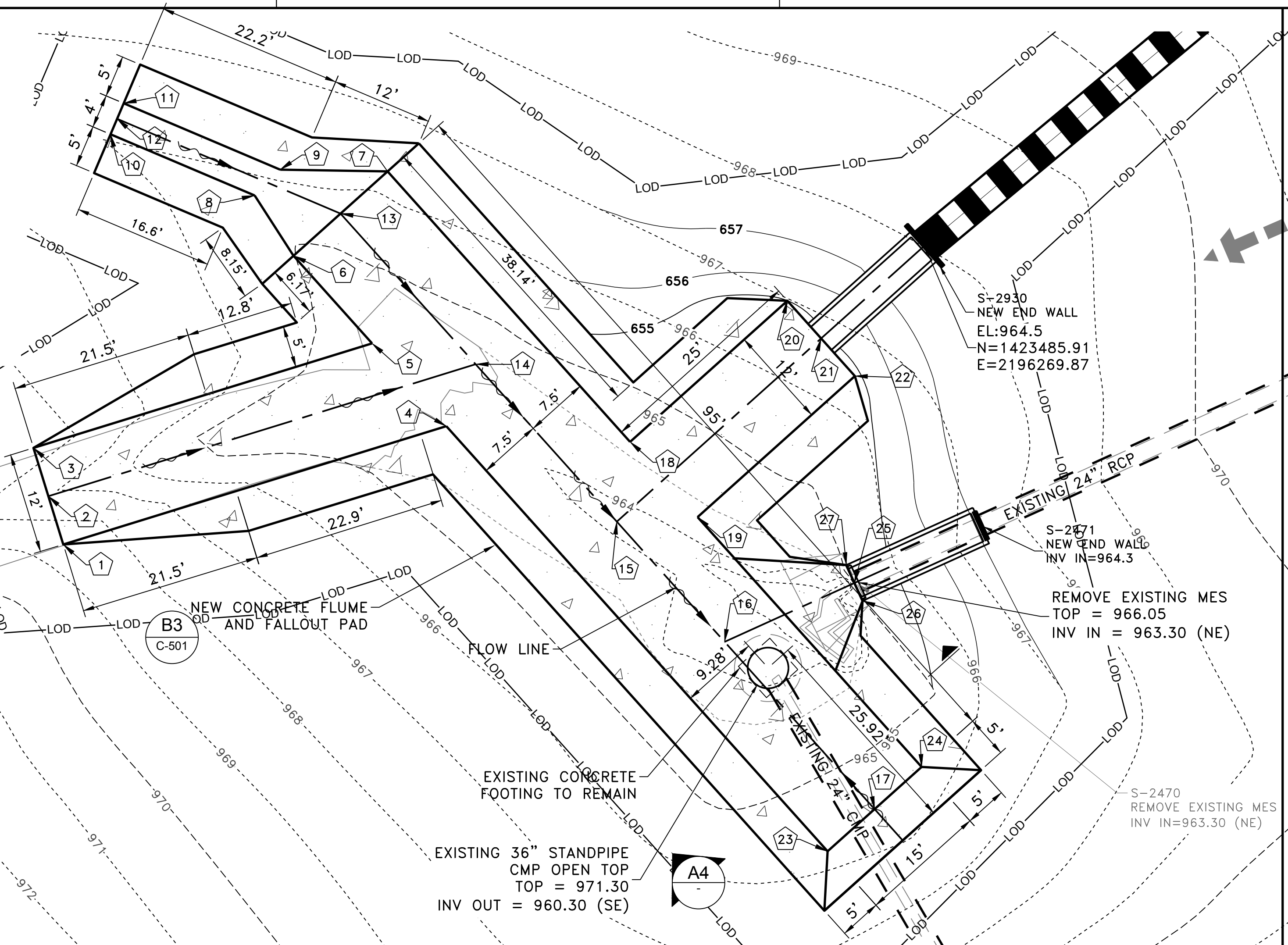
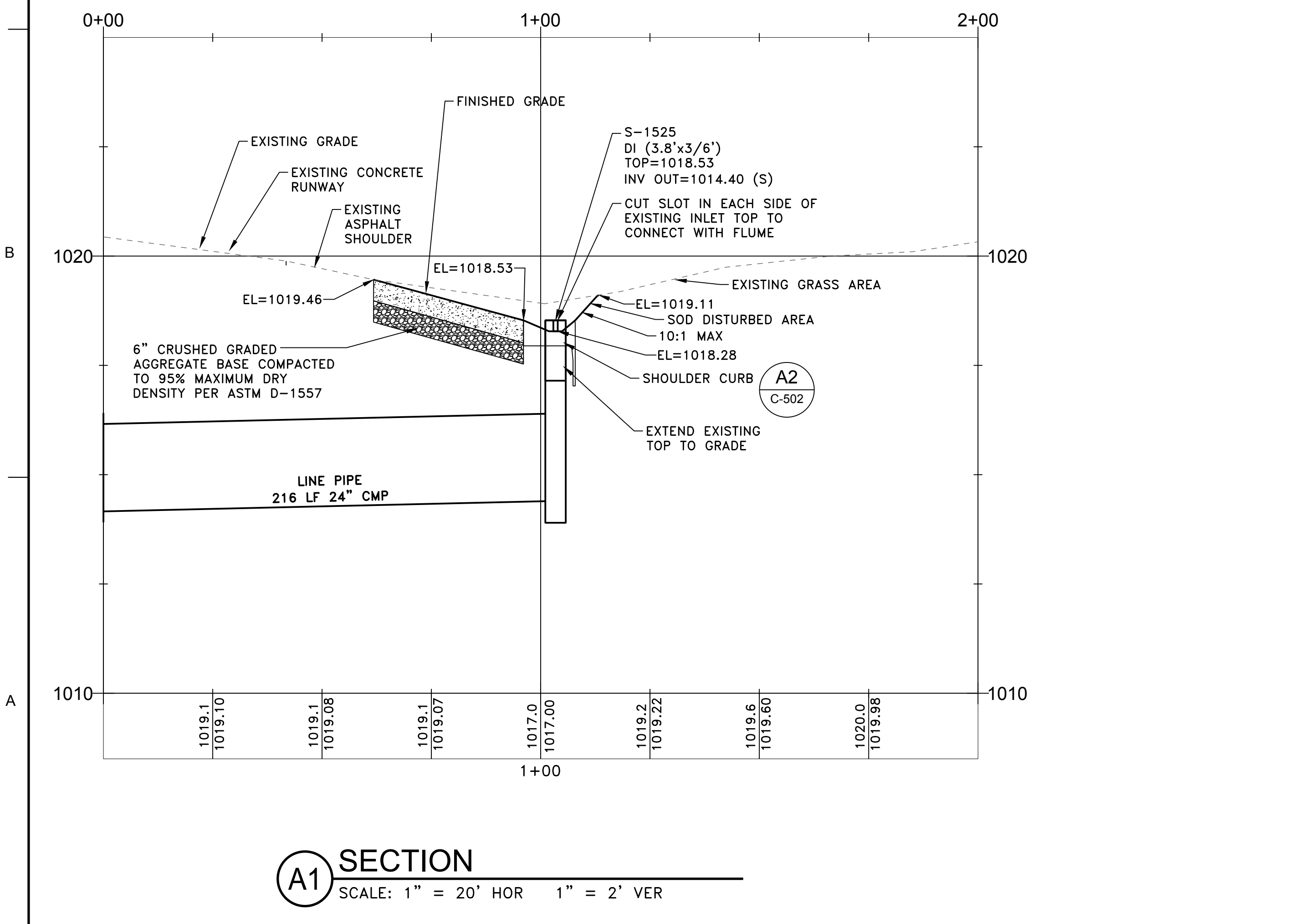
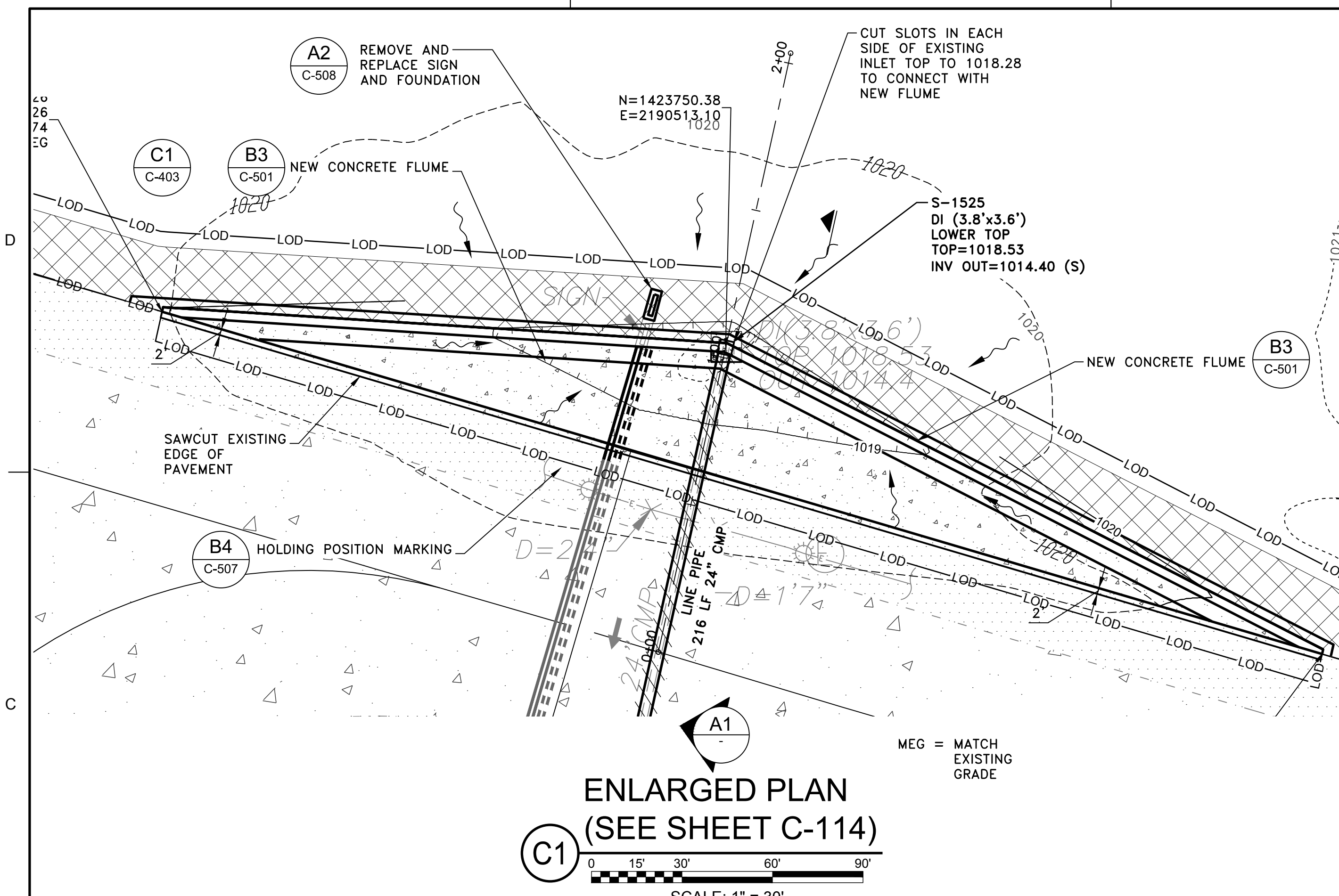
DOBBS AIRFIELD STORM WATER SYSTEM PHASE 2  
 DOBBS AIR RESERVE BASE, GEORGIA  
 PROJECT NO.: FGWB 04-0014P2A/B  
 P#: 470564  
**STORM DRAINAGE SECTION**

SHEET ID  
**C-201**



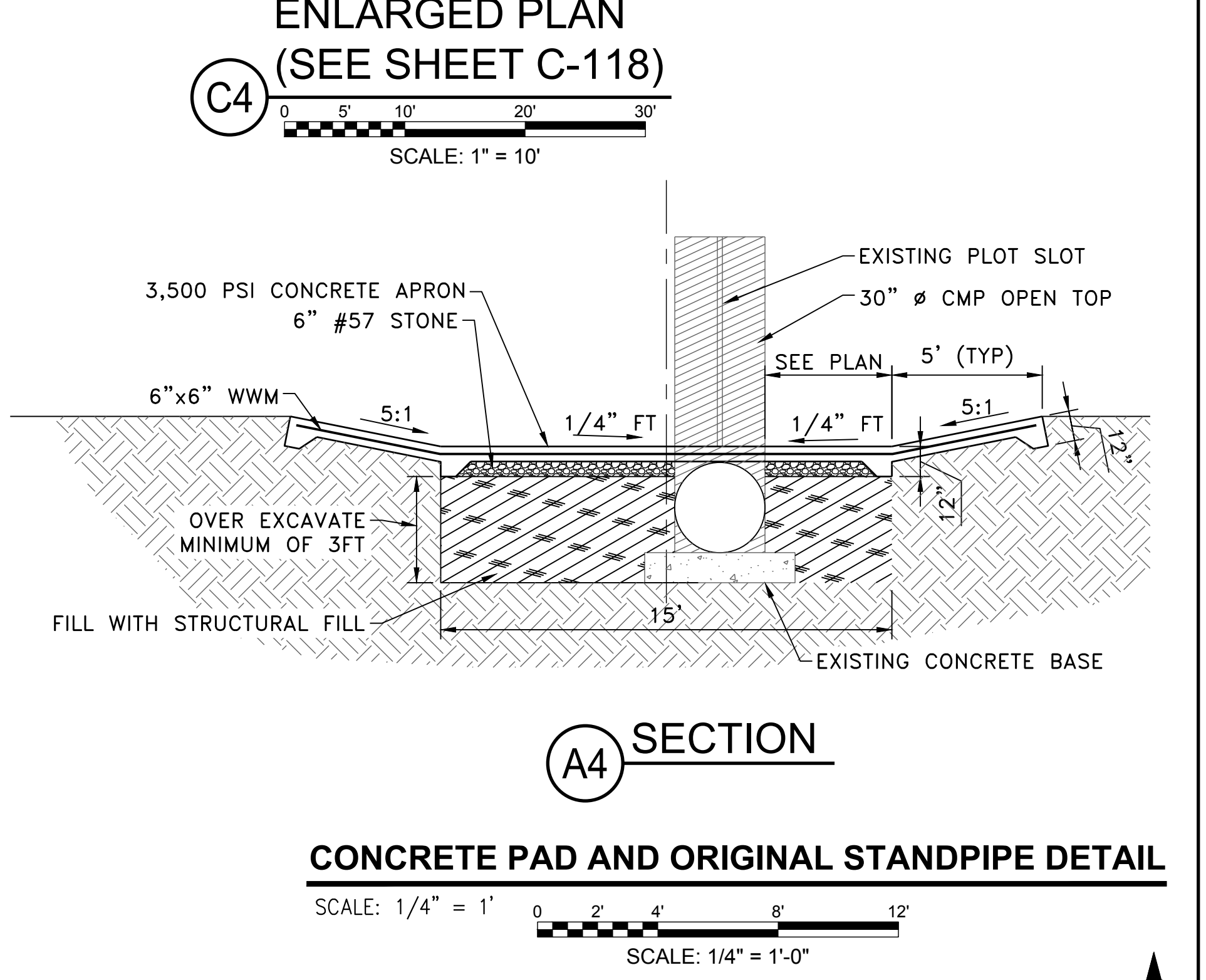






**GEOMETRY POINT TABLE**

NUMBER	ELEV	NORTHING	EASTING
1	MEG	1423450.42	2196167.58
2	967.2 MEG	1423456.16	2196165.81
3	MEG	1423461.89	2196164.04
4	965.10	1423464.47	2196213.08
5	965.32	1423474.31	2196204.26
6	965.35	1423484.71	2196194.93
7	965.35	1423494.73	2196206.09
8	965.96	1423491.87	2196190.31
9	965.93	1423494.93	2196193.34
10	966.33	1423499.13	2196173.20
11	966.33	1423502.82	2196174.76
12	966.23	1423500.98	2196173.98
13	965.20	1423489.72	2196200.51
14	964.72	1423471.83	2196216.56
15	964.21	1423453.13	2196233.32
16	963.96	1423438.86	2196246.12
17	964.80	1423418.99	2196263.94
18	964.49	1423462.61	2196234.90
19	964.25	1423453.67	2196242.91
20	964.50	1423479.36	2196253.58
21	964.40	1423474.89	2196257.59
22	964.50	1423470.43	2196261.59
23	964.92	1423413.99	2196258.35
24	964.92	1423424.00	2196269.52
25	965.00	1423445.85	2196261.54
26	965.05	1423443.72	2196262.50
27	965.05	1423447.97	2196260.57



US Army Corps of Engineers  
Louisville District

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ISSUE DATE:	SOLICITATION NO.:	CONTRACT NO.:	FILE NUMBER:
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FILE NAME: 470564-C-400.dwg  
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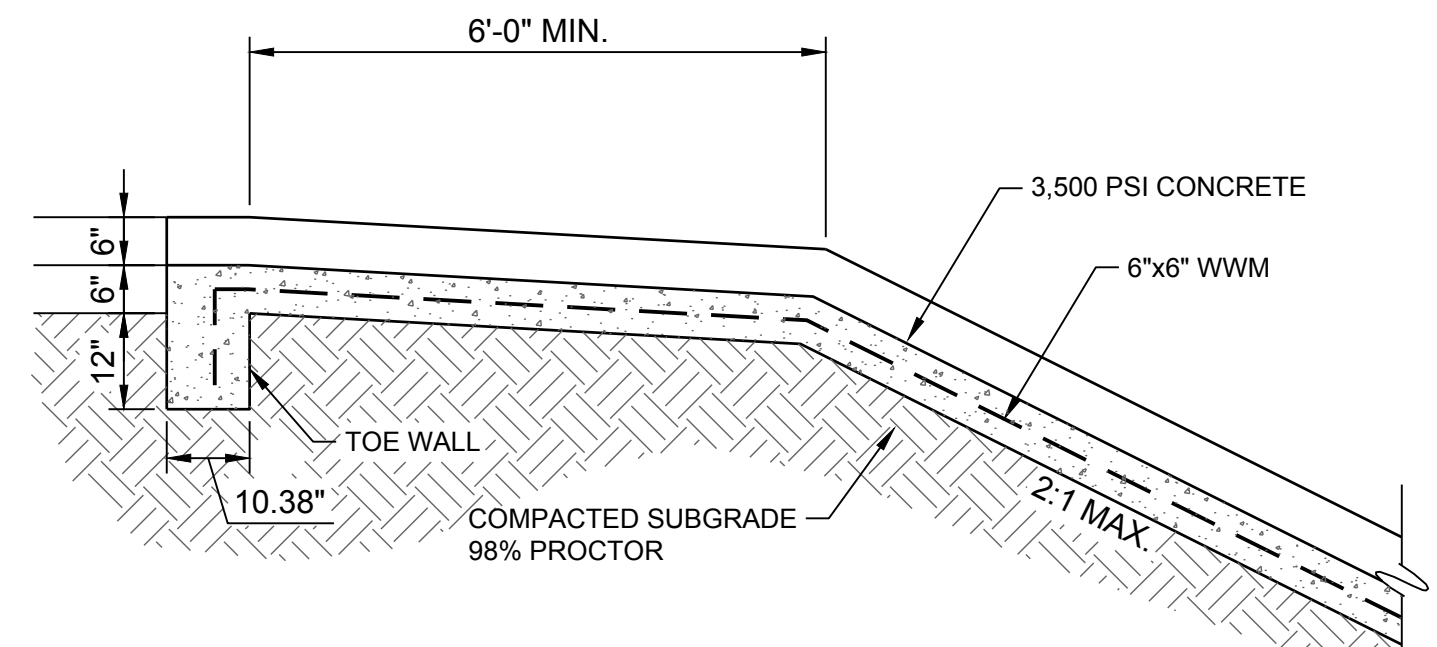
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Louisville, Kentucky 40202  
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PROJECT NO.: FGWB 04-0014P2A/B  
P2#: 470564  
ENLARGEMENT PLAN AND SECTIONS

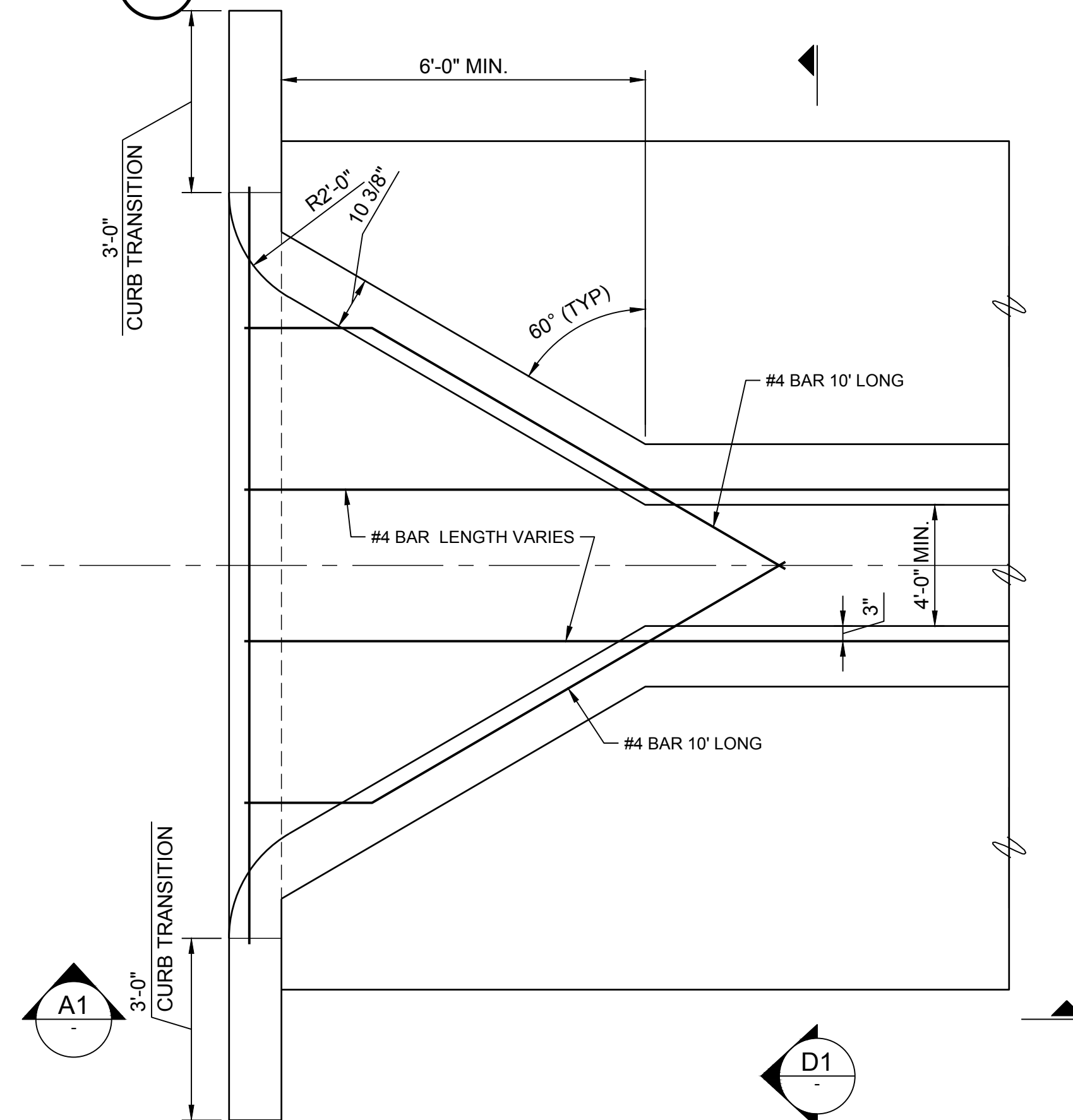
DOBBINS AIRFIELD STORM WATER SYSTEM PHASE 2  
DOBBINS AIR RESERVE BASE, GEORGIA

SHEET ID  
**C-403**

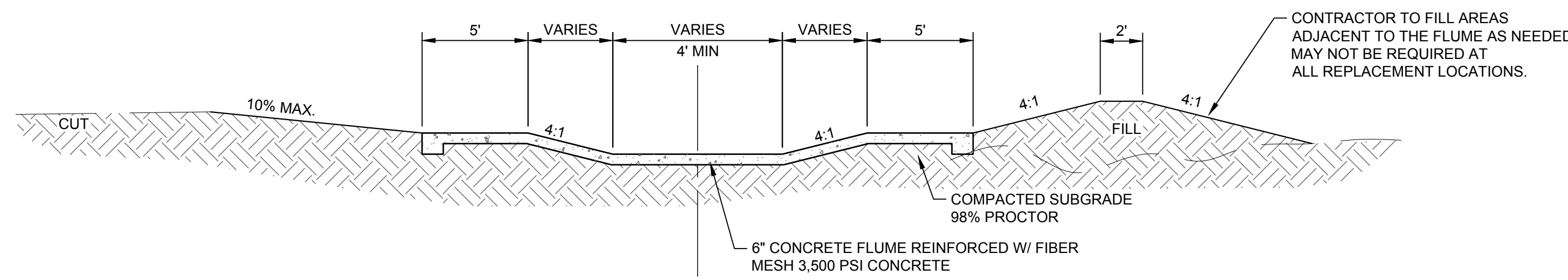
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**D1 CONCRETE FLUME REPLACEMENT SECTION**

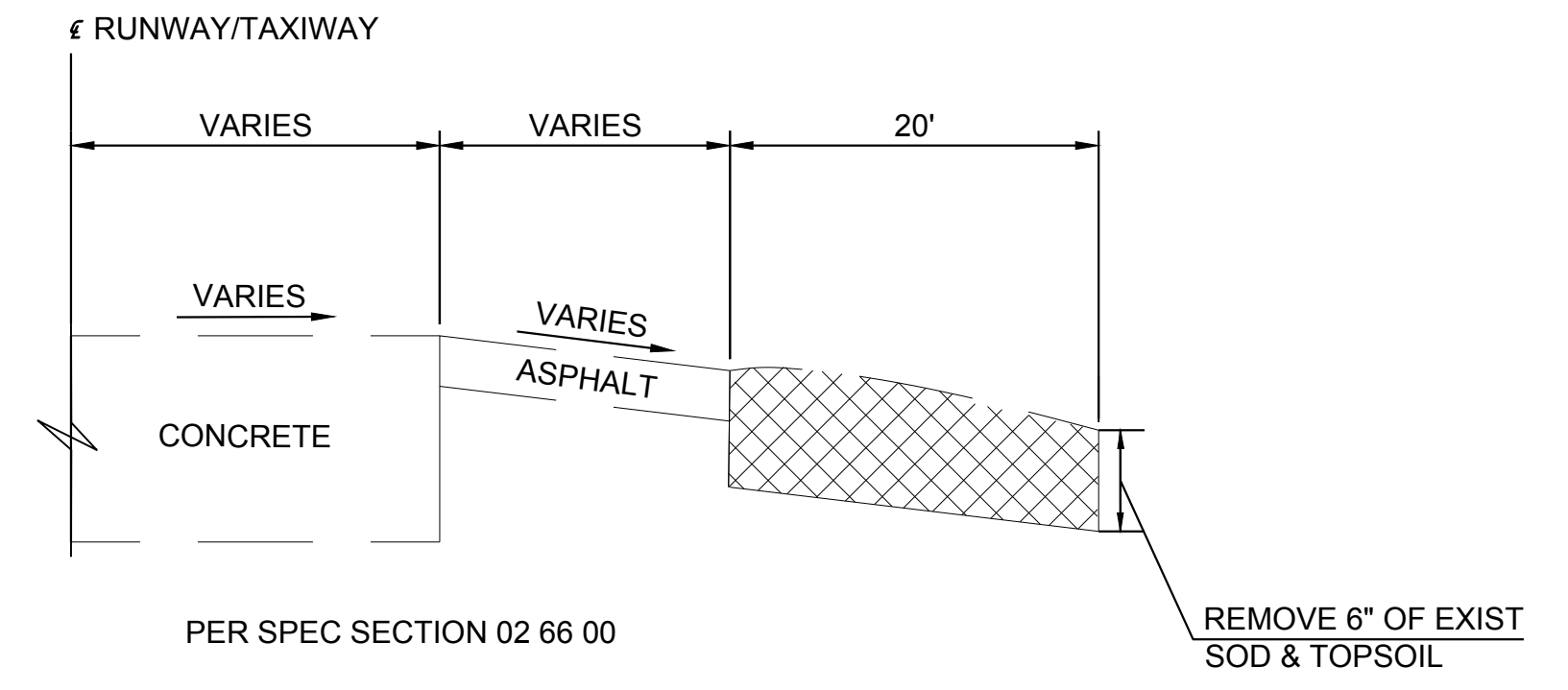


**B1 CONCRETE FLUME REPLACEMENT PLAN**

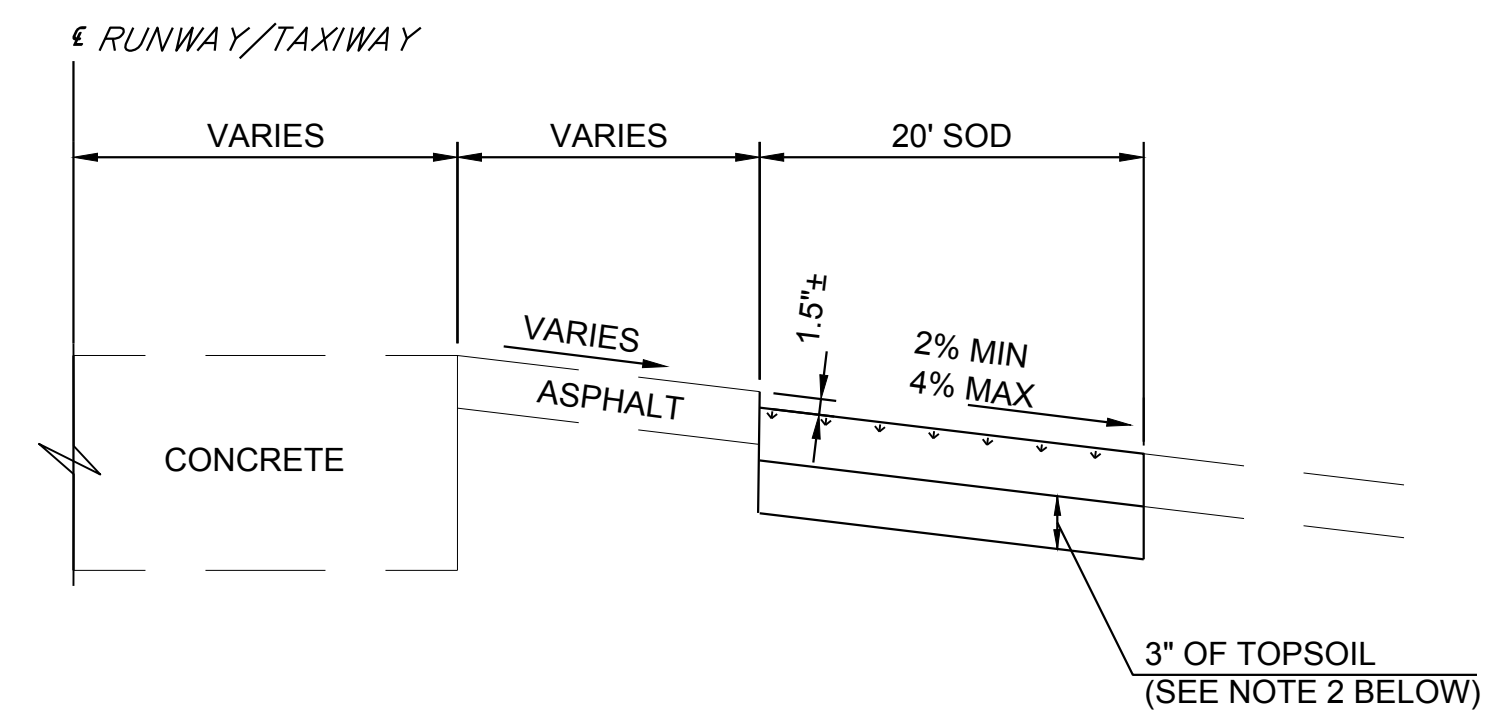


**A1 CONCRETE FLUME REPLACEMENT SECTION**

- NOTE:
1. MATCH SAWCUT PATTERN OF EXISTING FLUME.
  2. 1/2" PREFORMED EXPANSION JOINT TO BE INSTALLED AT EACH COLD JOINT CONNECTION.
  3. 4" WEEP HOLES FILLED WITH PEA GRAVEL AT 6' O.C. TO BE INSTALLED ON ALL NEW SECTIONS. ONE WEEP HOLE MINIMUM PER REPLACEMENT.

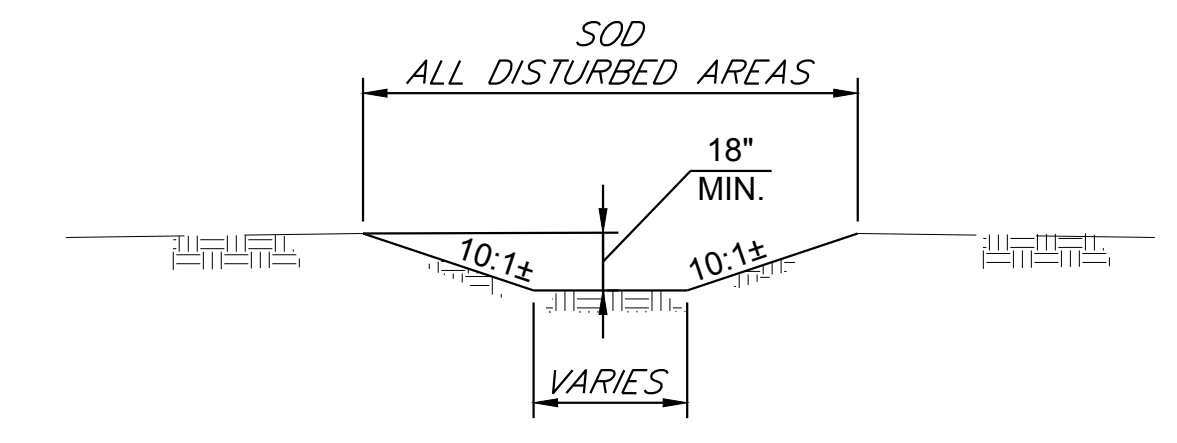


**D4 RUNWAY/TAXIWAY EXIST GROUND DEMOLITION TYPICAL SECTION**  
NO SCALE



**B4 RUNWAY/TAXIWAY PROPOSED SOD PLACEMENT**  
NO SCALE

- NOTE:
1. SOD PLACEMENT TO FOLLOW IN ACCORDANCE WITH UFGS 32 92 23.
  2. TOPSOIL PLACEMENT TO FOLLOW IN ACCORDANCE WITH UFGS 02 66 00.



**A4 TYPICAL SOD DITCH SECTION**  
NO SCALE

- NOTE:
1. CONTRACTOR TO MATCH EXISTING SWALE BOTTOM DIMENSION.

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5-20-19

DATE	DESCRIPTION	MARK

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U.S. ARMY CORPS OF ENGINEERS  
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TETRA TECH, INC.  
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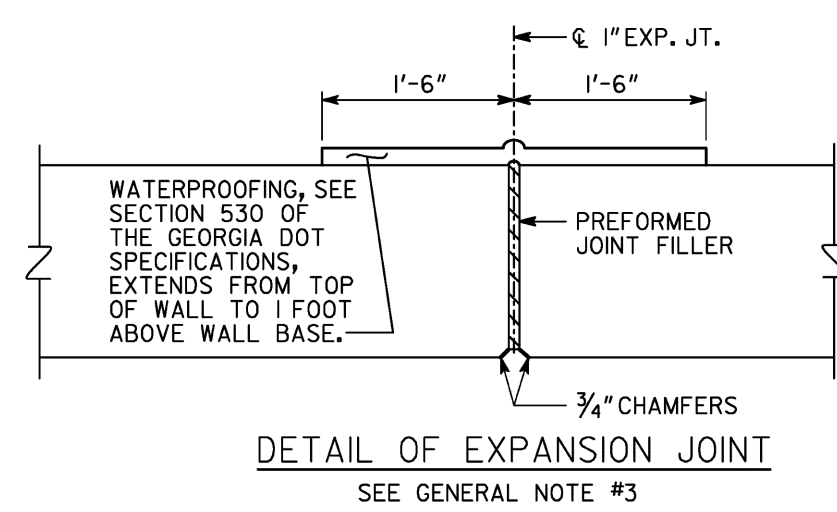
POND

DOBBINS AIRFIELD STORM WATER SYSTEM PHASE 2  
DOBBINS AIR RESERVE BASE, GEORGIA  
PROJECT NO.: FGWB 04-0014P2A/B  
P#: 470564

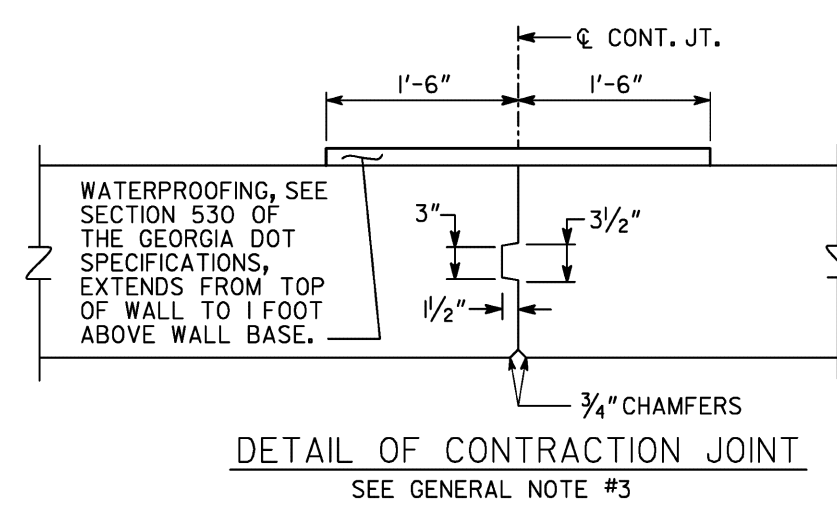
CIVIL DETAILS

SHEET ID  
**C-500**

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**DETAIL OF EXPANSION JOINT**  
SEE GENERAL NOTE #3



**DETAIL OF CONTRACTION JOINT**  
SEE GENERAL NOTE #3

	MAXIMUM "H"*		
BACKSLOPE	TYP. SECTION A	TYP. SECTION B**	TYP. SECTION C**
FLAT	8'-6"	10'-0"	10'-0"
SLOPE TO 4H	6'-3"	7'-0"	7'-0"
SLOPE TO 2H	4'-6"	4'-9"	4'-9"

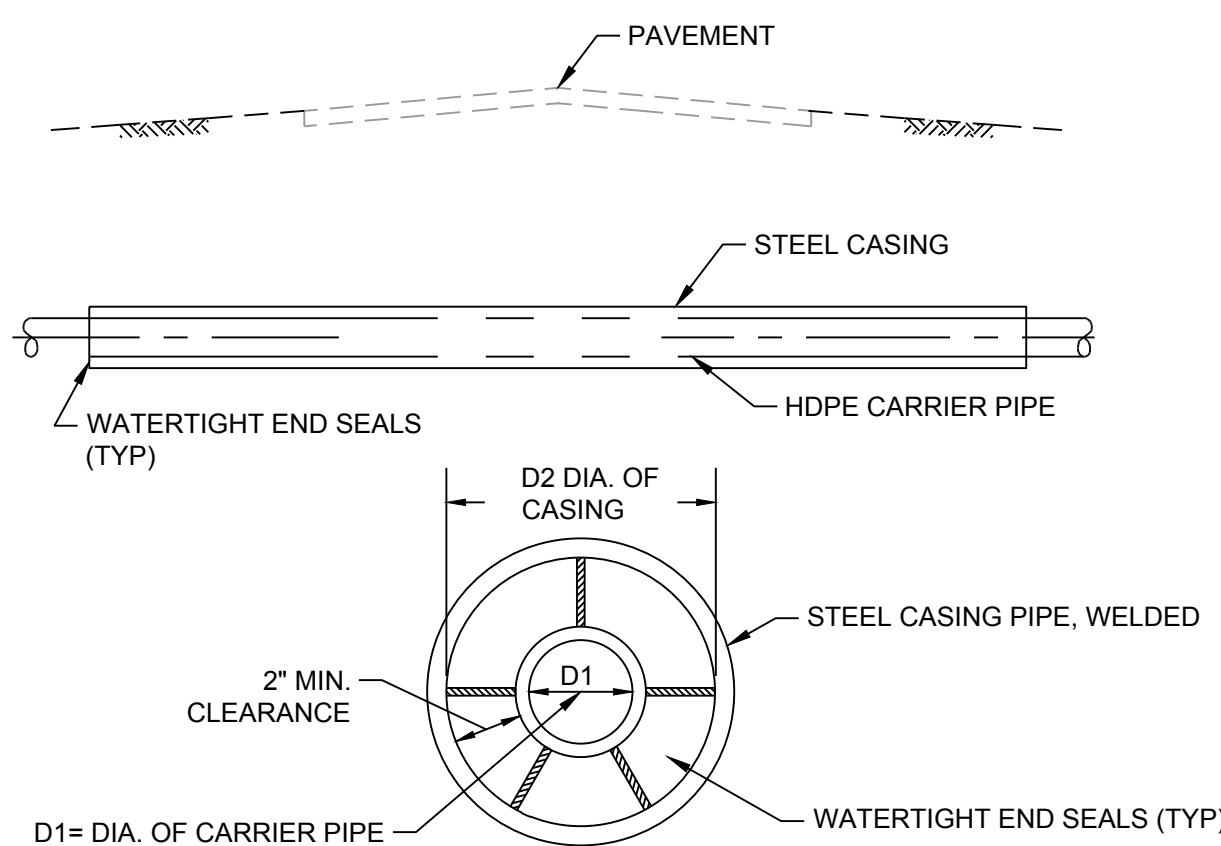
\* GREATER "H" PERMITTED IF APPROVED BY BRIDGE DESIGN.  
 \*\* TYPICAL SECTION B SHALL HAVE A MINIMUM H OF 3'-8"  
 TYPICAL SECTION C SHALL HAVE A MINIMUM H OF 4'-6"

**GENERAL NOTES:**

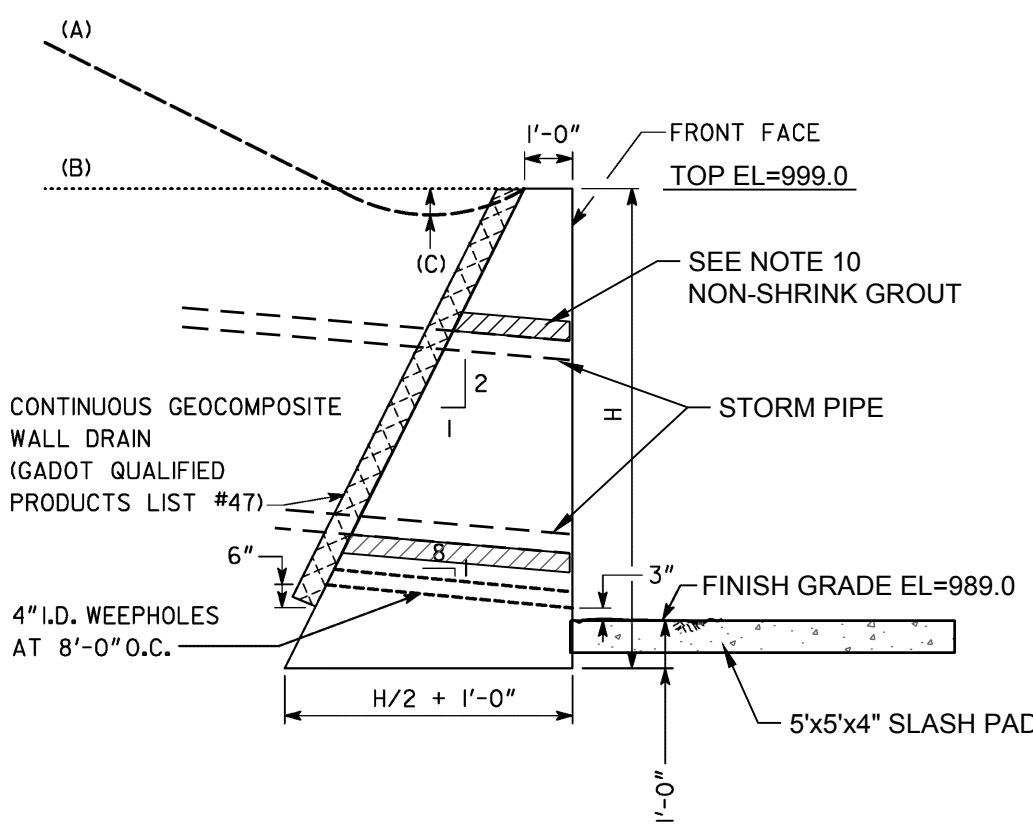
- GRAVITY WALLS SHALL NOT BE USED WHEN HORIZONTAL DISTANCE FROM EDGE OF TRAVEL WAY TO FRONT FACE OF WALL IS LESS THAN (H + 1'-0").
- GRAVITY WALLS DESIGNED FOR THE FOLLOWING SOIL PROPERTIES:  

FOUNDATION	BACKFILL
COHESION = 0 PSF	0 PSF
$\phi$ = 28°	28°
UNIT WEIGHT = 120 PCF	120 PCF
- EXPANSION JOINTS SHALL BE LOCATED AT A MAXIMUM SPACING OF 90'-0" AND EXTEND THROUGH THE WALL. CONTRACTION JOINTS SHALL BE LOCATED AT A MAXIMUM SPACING OF 30'-0".
- GRAVITY WALLS WITH A VERTICAL FRONT FACE SHALL BE PAID FOR AS "CLASS B CONCRETE OR MORTAR RUBBLE MASONRY, RETAINING WALL". GRAVITY WALLS WITH A BARRIER FRONT FACE SHALL BE PAID FOR AS "CLASS A CONCRETE, RETAINING WALL". WATERPROOFING, JOINT FILLER, WALL DRAIN, AND OTHER INCIDENTAL ITEMS SHALL BE INCLUDED IN OVERALL BID SUBMITTED.
- A CONCRETE DITCH DETAIL FOR THE TOP OF THE WALL SHOULD BE INCLUDED IN THE ROADWAY PLANS WHEN WATER IS FLOWING TOWARDS THE BACK OF THE WALL. SEE CONSTRUCTION DETAIL D-49.
- FINISH EXPOSED SURFACES OF THE WALL WITH A TYPE III FINISH.
- APPLY GRAFFITI PROOF COATING AS PER SECTIONS 500 AND 838 OF THE GEORGIA DOT SPECIFICATIONS.
- ALL NECESSARY FENCE AND HANDRAIL SHOULD BE INCLUDED IN THE ROADWAY PLANS WHEN APPROPRIATE.
- GRAVITY WALL TYPICAL SECTIONS A, B, AND C HAVE BEEN DESIGNED PER THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION, 2014.
- MAXIMUM OPENING SHALL BE THE PIPE OUTSIDE DIAMETER PLUS 6". MORTAR USED TO SEAL THE PIPE OPENING WILL BE SUCH MIX THAT SHRINKAGE WILL NOT CAUSE LEAKAGE.

**B1 GRAVITY WALL**  
NO SCALE (GDOT)

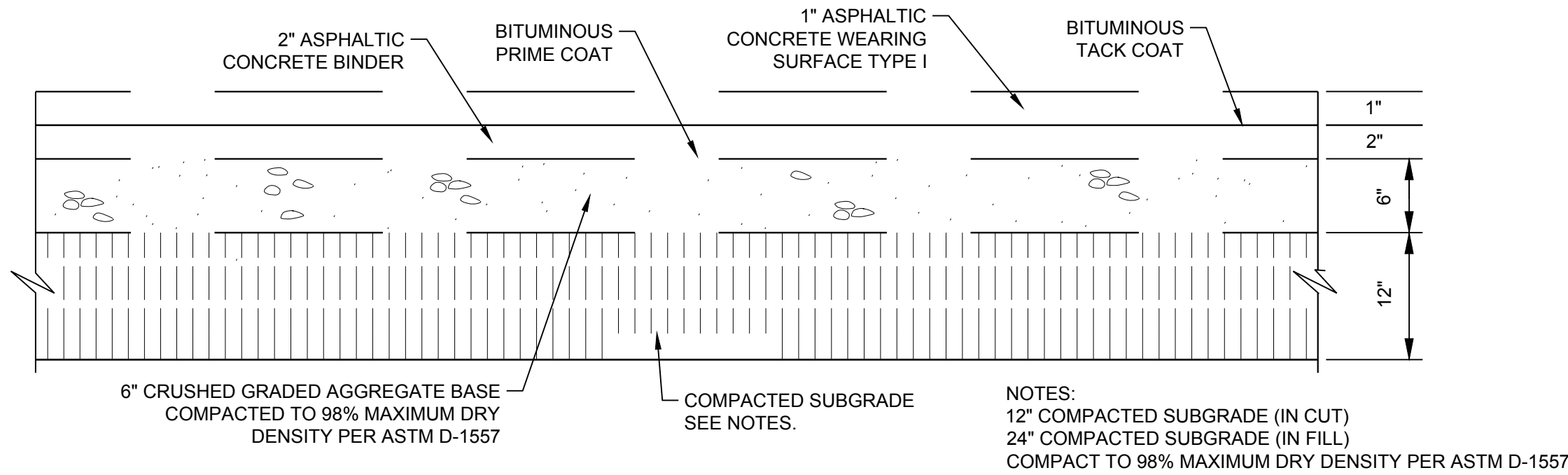
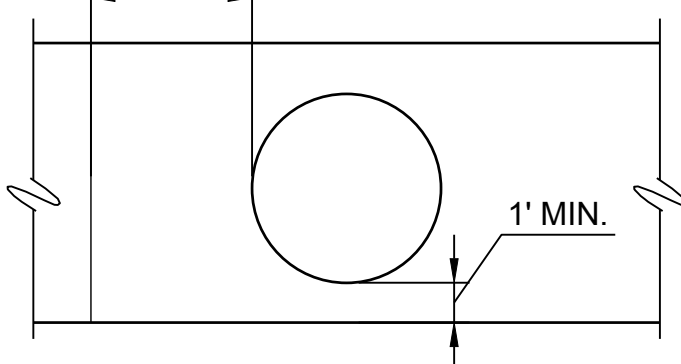


**A1 BORE AND JACK DETAIL**  
NO SCALE

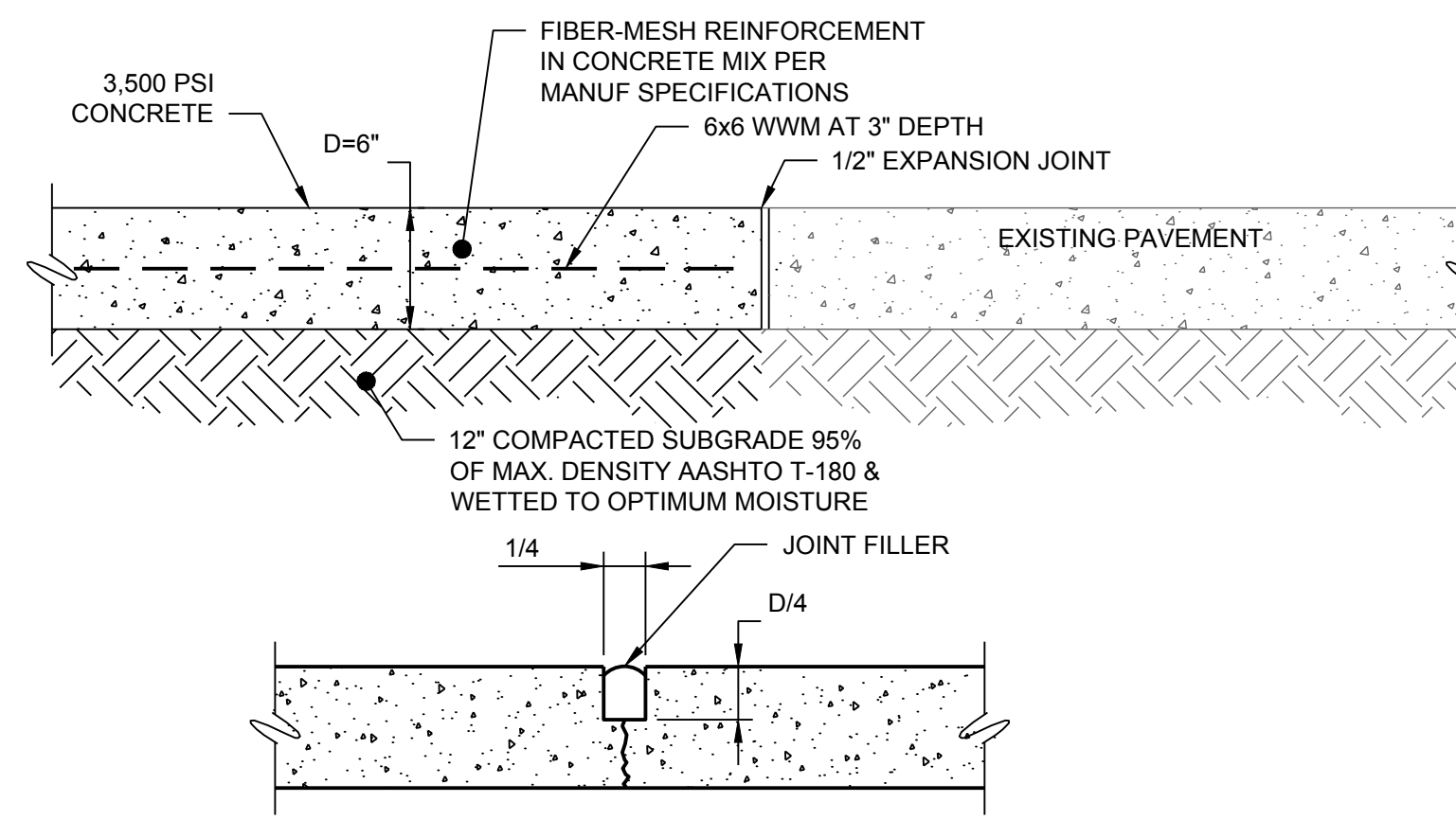


**TYPICAL SECTION A**

5' MIN. TO NEAREST JOINT (TYP)



**REPAIR AS-NEEDED FLEXIBLE PAVEMENT SECTION**  
**D1 - TAXIWAY SHOULDER**  
NO SCALE



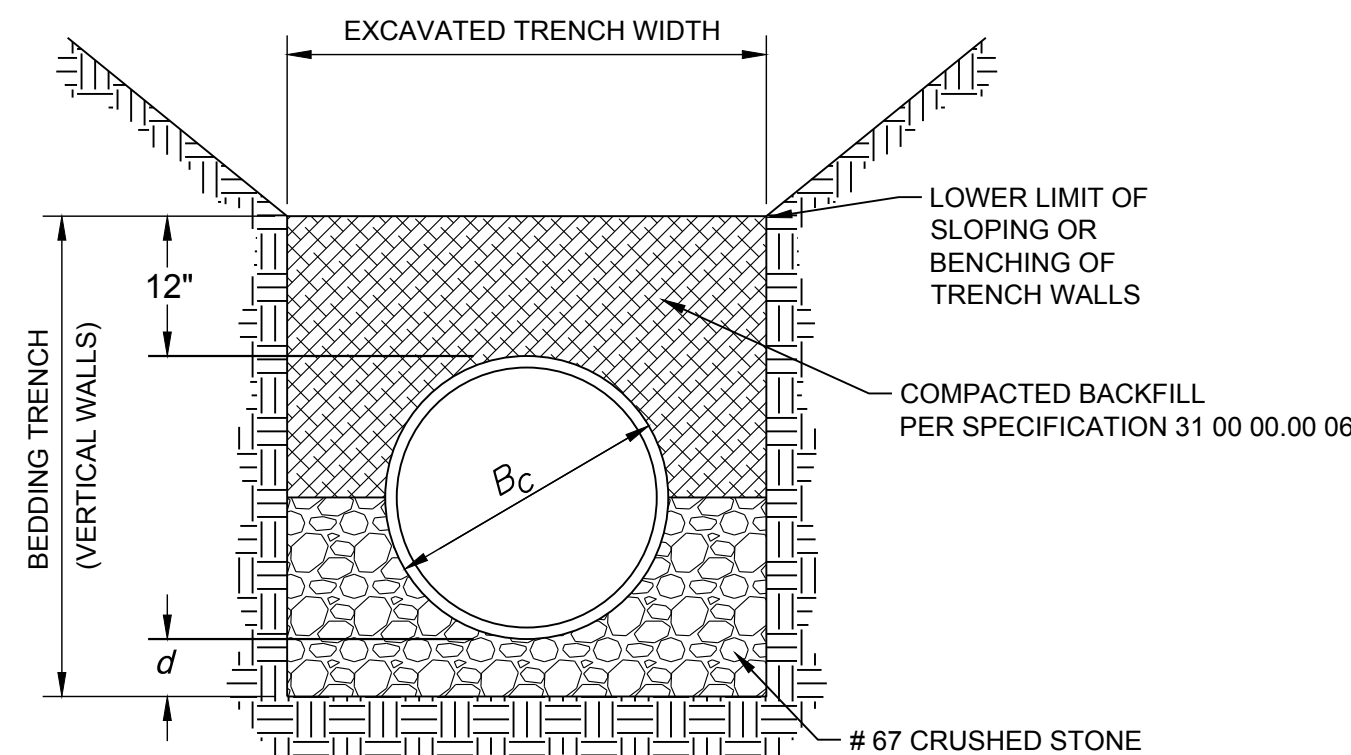
**NOTES:**

- CRACK CONTROL (CONTRACTION) JOINTS @ 15' O.C. UNLESS OTHERWISE NOTED.
- EXPANSION JOINTS TO BE 1/2" WITH PRE-MOLDED JOINT FILLER MATERIAL.
- CONTRACTOR TO CONSTRUCT CONTRACTION JOINTS INTO PANELS THAT ARE APPROX. SQUARE. WHEN THIS IS NOT POSSIBLE, RECTANGULAR PANELS CAN BE USED IF THE LONG DIMENSION IS NO MORE THAN 1.25 TIMES THE SHORT DIMENSION.

**B3 CONCRETE PAVEMENT**  
NO SCALE

D	d (min.)
< 27"	3"
30" to 60"	4"
> 66"	5"

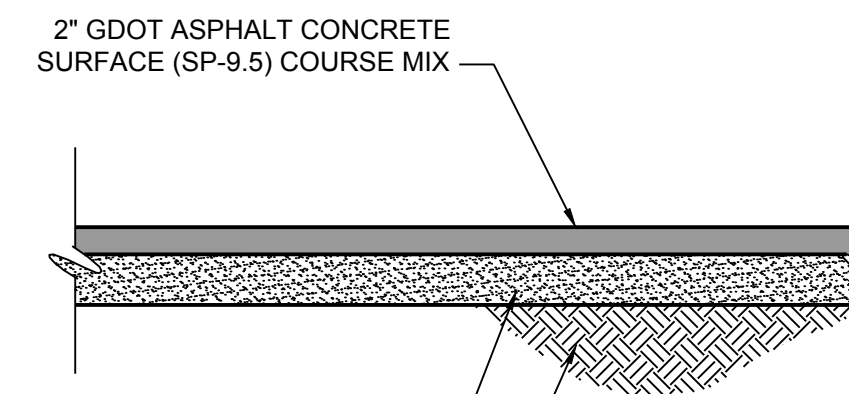
LEGEND  
 B<sub>c</sub> = OUTSIDE DIAMETER  
 D = INSIDE DIAMETER  
 d = DEPTH OF BEDDING MATERIAL BELOW PIPE



**NOTES:**

- FOR CLASS B PIPE BEDDING, SUBGRADE SHOULD BE EXCAVATED, OR OVER EXCAVATED IF NECESSARY SO A UNIFORM FOUNDATION FREE OF PROTRUDING ROCKS MAY BE PROVIDED.
- GRANULAR BEDDING SHALL BE HAND TAMPED IN 6" LIFTS AND SHALL CONFORM TO ASTM C-22 OR ASTM D-488 GRADATION SIZE # 67.
- TYPICAL ALL BEDDING.

**A2 CLASS B PIPE BEDDING**  
NO SCALE



6" CEMENTED BASE. MINIMUM CBR OF 80 OR LBR OF 100 COMPACTED AT LEAST 95% OF MODIFIED PROCTOR (ASTM D-1557)  
 THE ASPHALT SHOULD BE COMPACTED TO A TARGET OF 92% OF THE LABORATORY MAXIMUM SPECIFIC GRAVITY (GMM OF RICE SPECIFIC GRAVITY).

12" STABILIZED SUBGRADE SURFACE MINIMUM CBR 40 OR MINIMUM LBR OF 60 COMPACTED AT LEAST 98% OF MODIFIED PROCTOR (ASTM D-1557)

**NOTES:**

- A TACK COAT WILL BE REQUIRED FOR ASPHALT PAVEMENT BETWEEN EXISTING PAVEMENT SURFACES, LAYERS OF LIFT OF HOT MIX ASPHALT OR NEW ASPHALT PLACED AGAINST CURBS, GUTTERS AND CONSTRUCTION JOINTS.
- BEFORE PLACING THE BASE COURSE THE EXPOSED SUBGRADE SHALL BE COMPACTED TO A DENSITY OF 98% MODIFIED PROCTOR (ASTM D1557) FOR A DEPTH OF 12"
- SOME STABILIZATION OF THE EXISTING SUB-GRADE SHOULD BE ANTICIPATED BEFORE COMPACTION OF THE BASE MATERIAL. STABILIZATION THE EXISTING SUB-GRADE BY MIXING IN ROUGHLY 4 INCHES OF BASE MATERIAL INTO THE TOP 12 INCHES OF EXISTING SUB-GRADE MATERIAL PRIOR TO COMPACTION. IMPORTED PAVEMENT SUB-GRADE MATERIAL SHOULD HAVE A MINIMUM CBR VALUE OF 32 TO AVOID STABILIZATION REQUIREMENTS.

**C5 TYPICAL ASPHALT PAVEMENT REPAIR**  
NO SCALE

US Army Corps of Engineers  
Louisville District

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DATE	DESCRIPTION	MARK

ISSUE DATE: 05/20/2019	SOLICITATION NO.:	CONTRACT NO.:	FILE NUMBER:
DESIGNED BY: J. WARNER	DRAWN BY: M. MATTHEWS	CHECKED BY: S. BAILEY	FILE NAME: 470320B-C-500.dwg
APPROVED BY: J. WARNER	DATE: 05/20/2019	SCALE: AS SHOWN	

U.S. ARMY CORPS OF ENGINEERS  
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PROJECT NO.: FGWB 04-0014P2A/B  
P#: 470320

DOBBS AIRFIELD STORM WATER SYSTEM PHASE 2  
DOBBS AIR RESERVE BASE, GEORGIA

CIVIL DETAILS

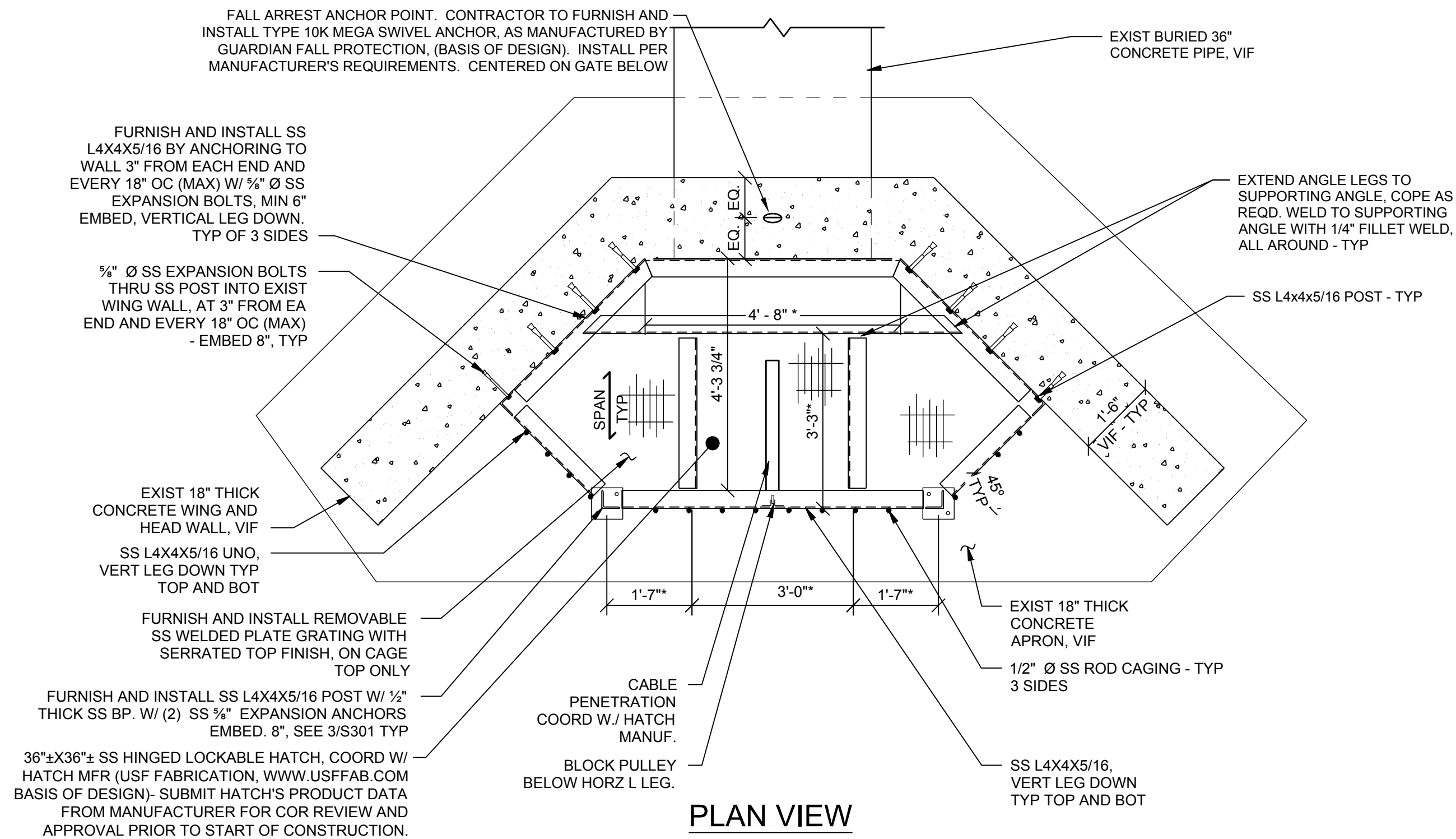
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C-501

D

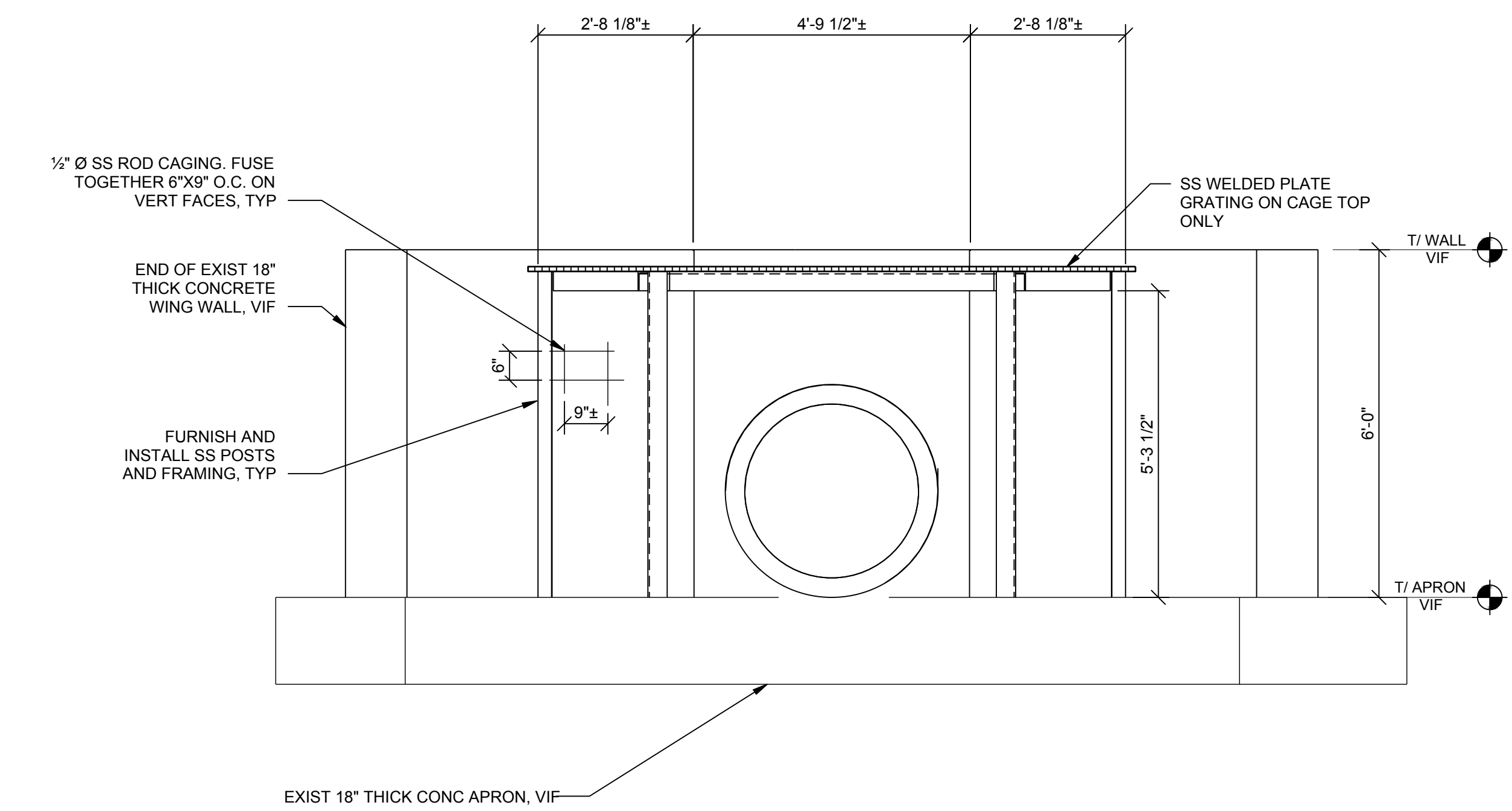
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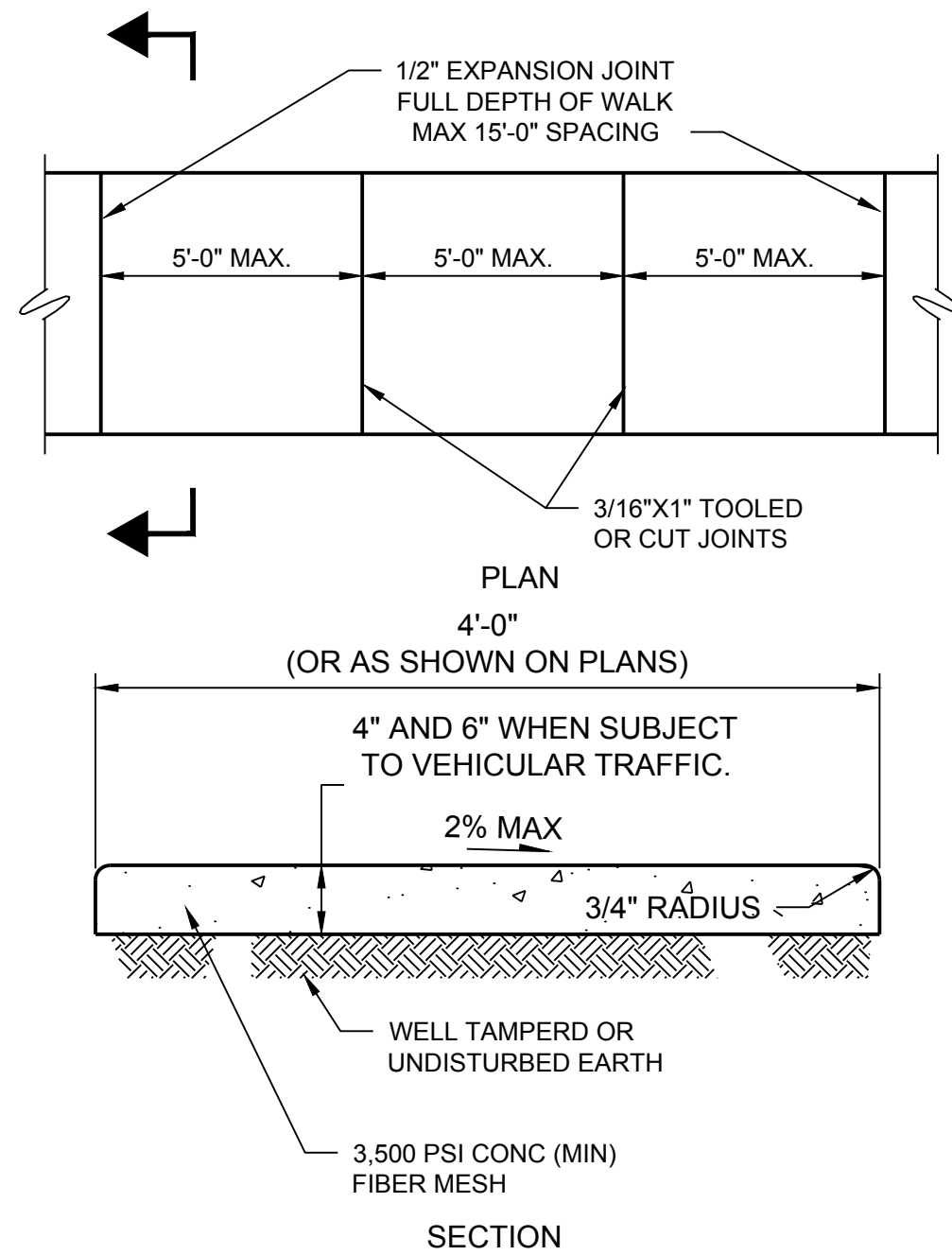
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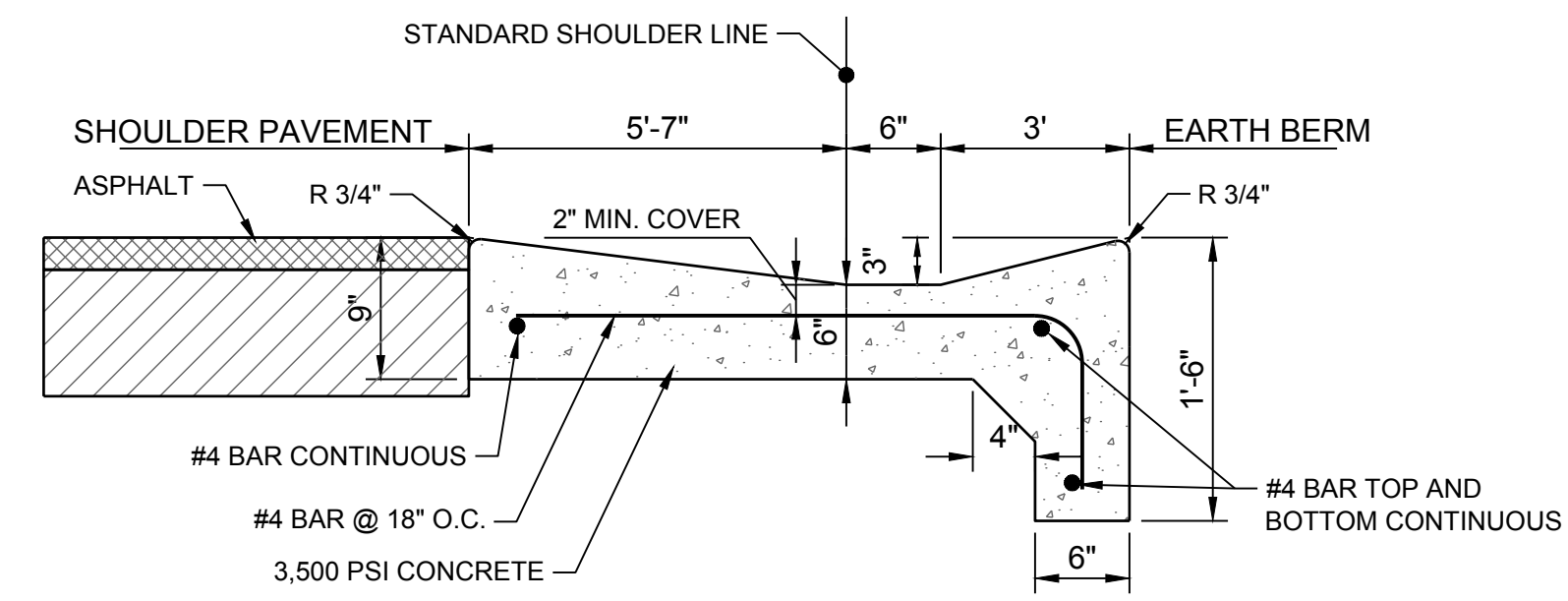
PLAN VIEW



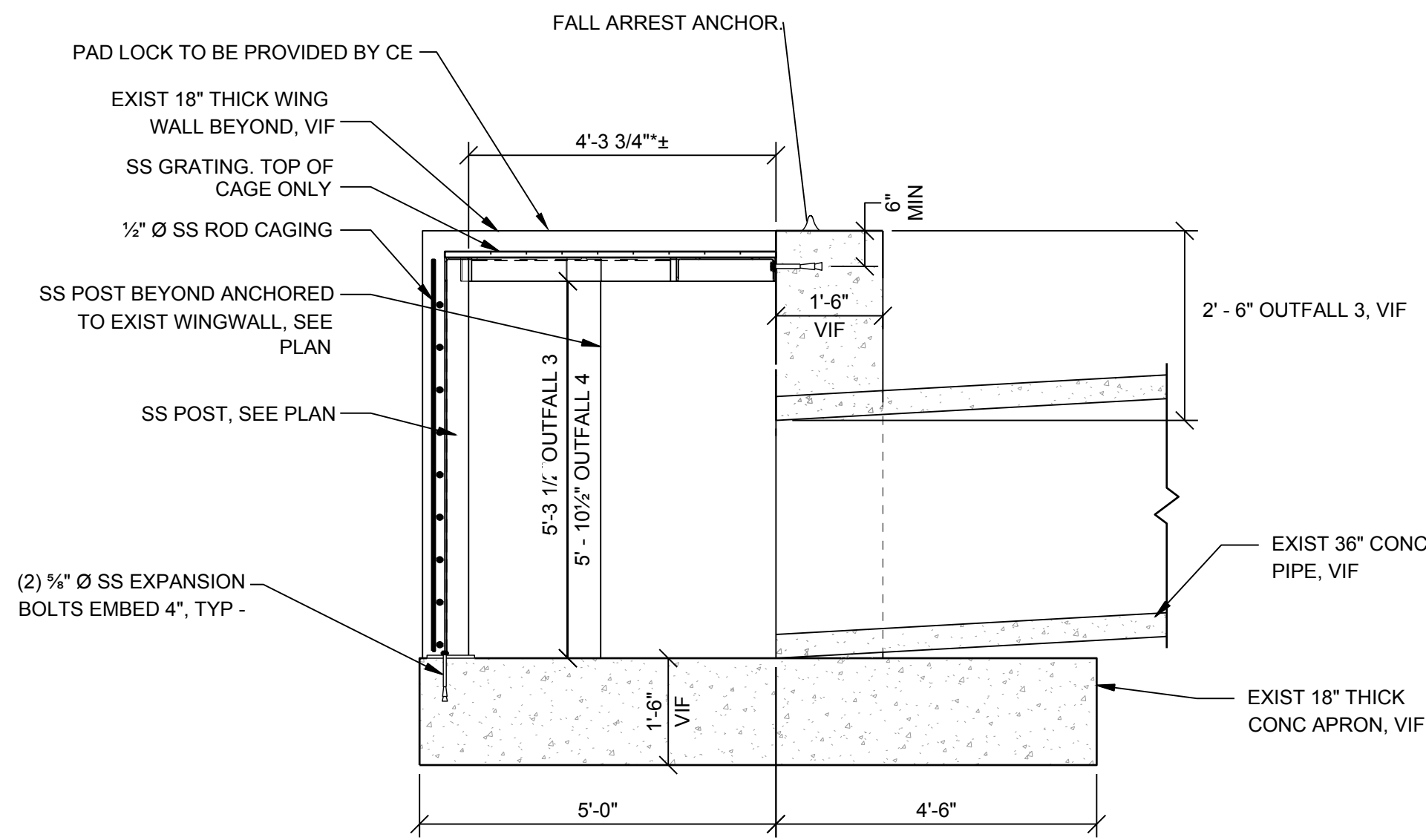
FRONT VIEW



A1 CONCRETE WALK  
NO SCALE

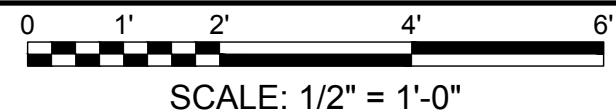


A2 SHOULDER GUTTER  
NO SCALE



SIDE VIEW

A4 HEADWALL WITH SECURITY GRATE



US Army Corps of Engineers  
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5-20-11

DATE	DESCRIPTION	MARK

ISSUE DATE: 05/20/2019	SOLICITATION NO.:	CONTRACT NO.:	FILE NUMBER:
DESIGNED BY: J. WARNER	CHECKED BY: B. MATTHEWS	SUBMITTED BY: S. BAILEY	FILE NAME: 470320B-C-500.dwg

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POND

DOBBINS AIRFIELD STORM WATER SYSTEM PHASE 2  
DOBBINS AIR RESERVE BASE, GEORGIA  
PROJECT NO.: FGWB 04-0014P2A/B  
P#: 470320B

CIVIL DETAILS

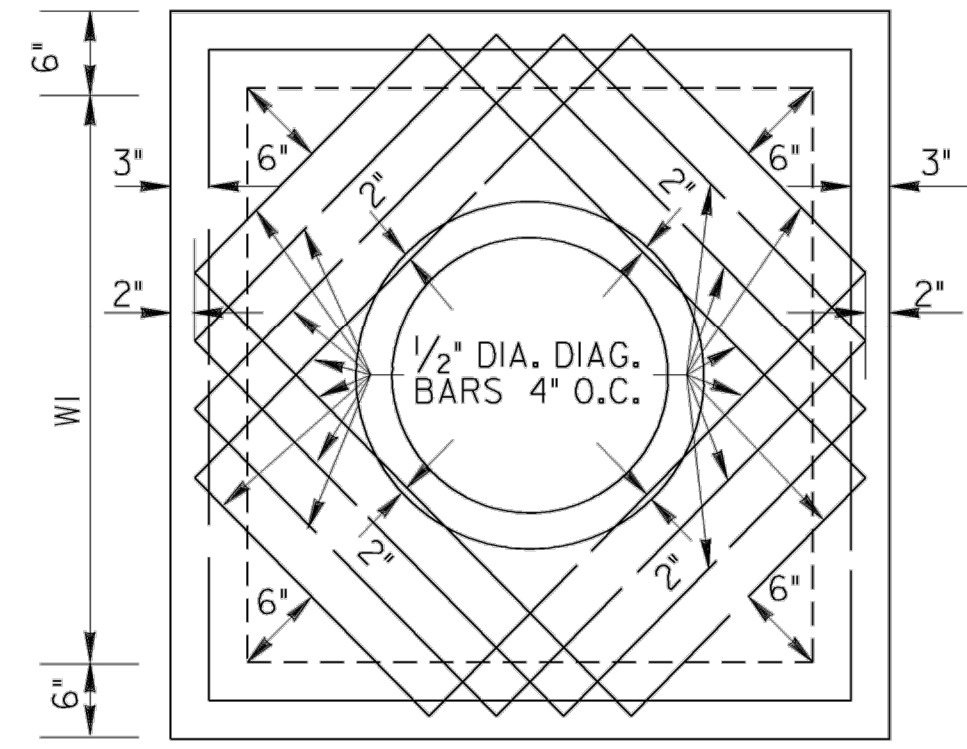
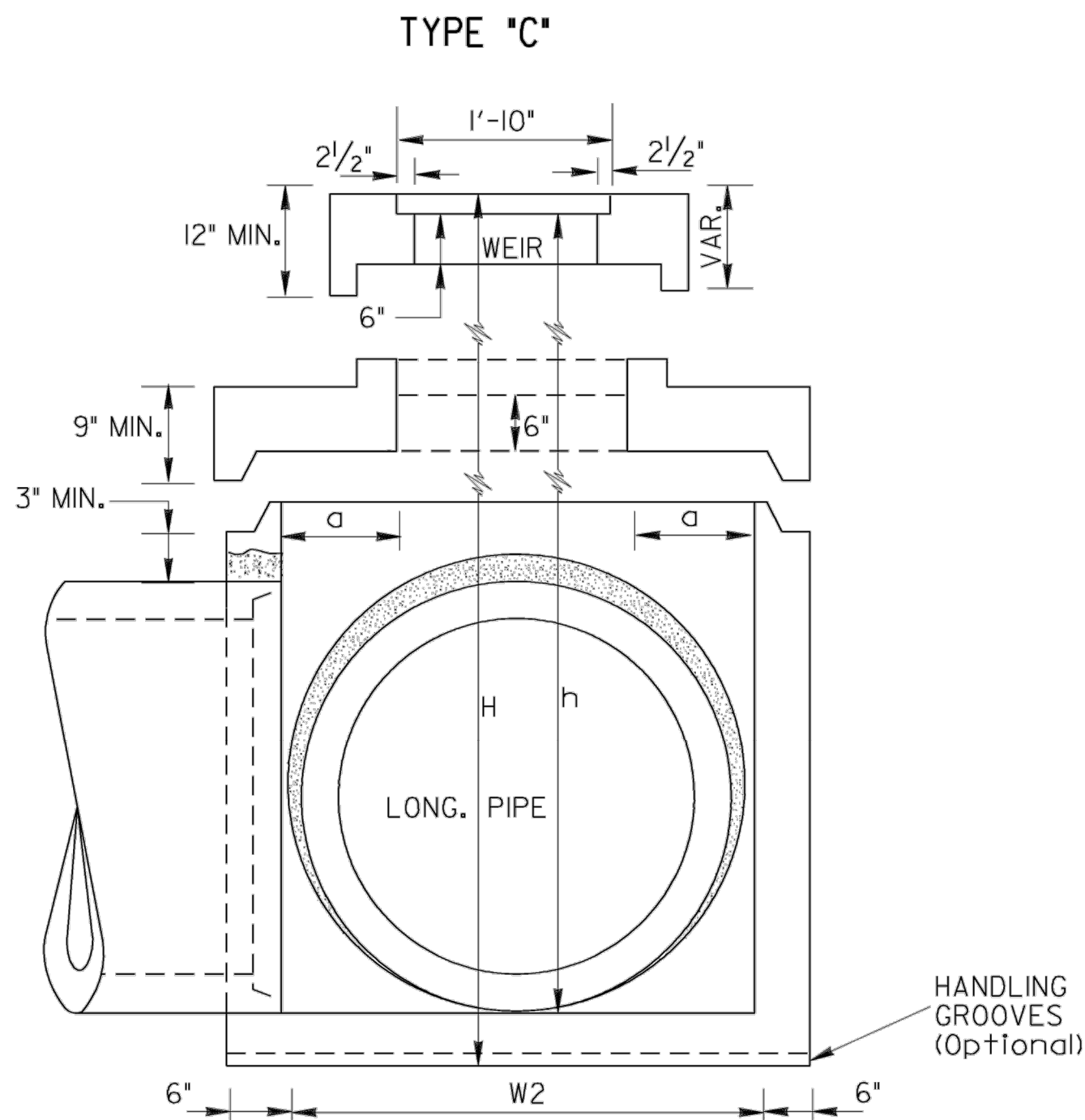
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D

C

B

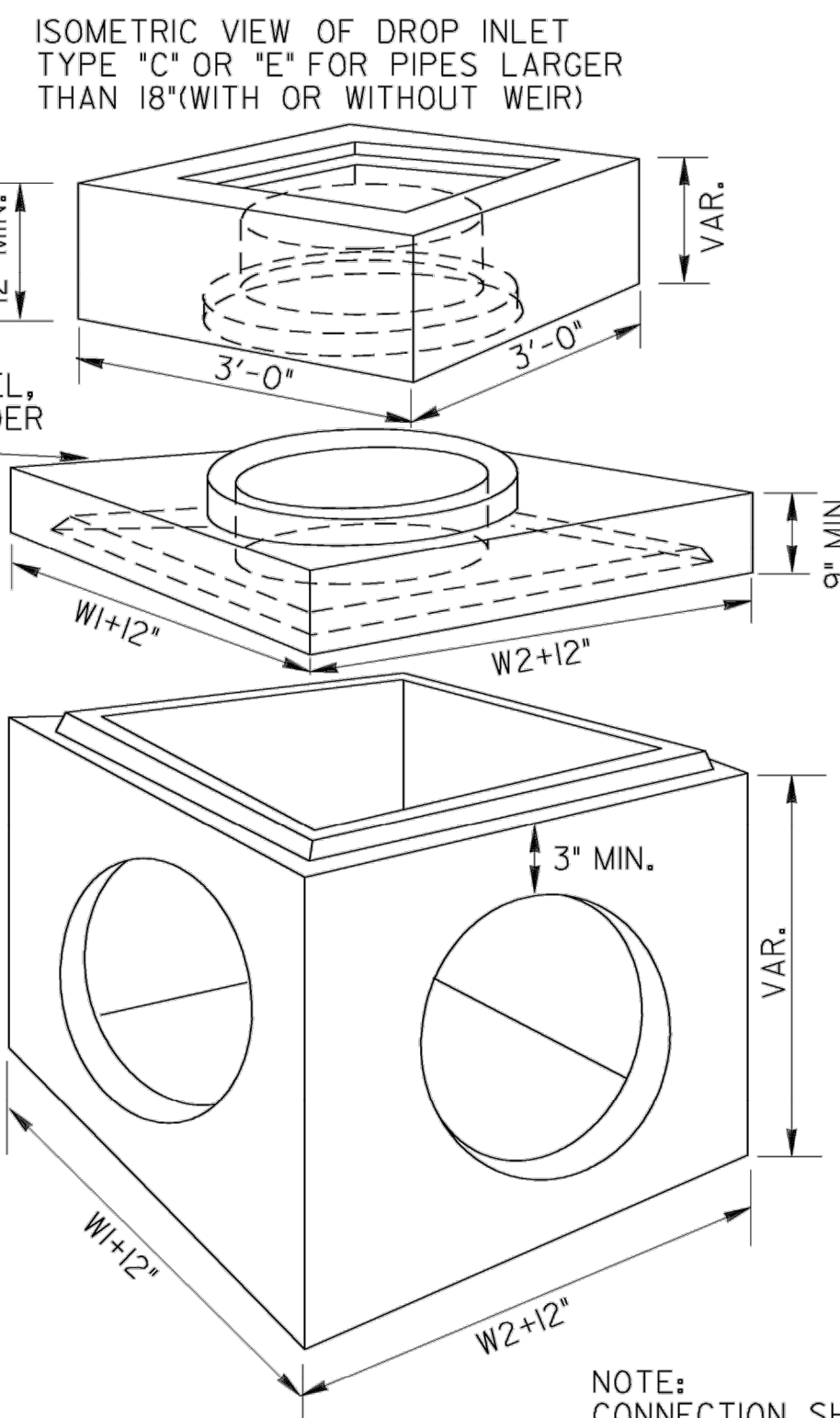
A



SCALE: 3/4" = 1

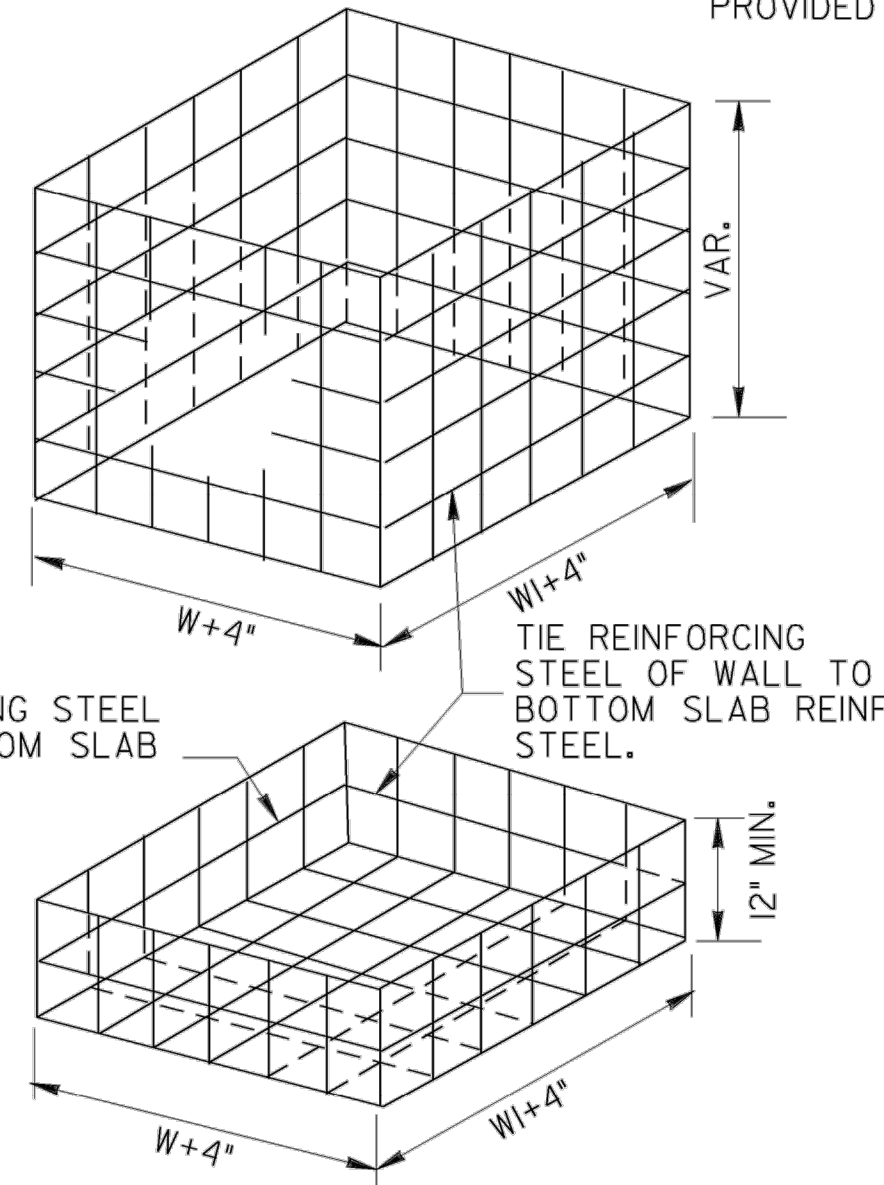
PIPE SIZE	TYPE "C"			
	W1 or W2	a	MIN. h	MIN. H
15"	2'- 0"		2'-7"	3'-3 1/2"
18"	2'- 0"		2'-10"	3'-6 1/2"
24"	3'- 0"	0'- 6"	4'- 3 1/2"	5'- 0"
30"	3'- 6"	0'- 9"	4'-10 1/2"	5'- 7"
36"	4'- 0"	1'- 0"	5'- 5 1/2"	6'- 2"
42"	4'- 6"	1'- 3"	6'-1 1/2"	6'- 8"
48"	5'- 0"	1'- 6"	6'- 7 1/2"	7'- 3"
54"	5'- 6"	1'- 9"	7'- 2 1/2"	7'-10"
60"	6'- 0"	2'- 0"	7'- 9 1/2"	8'- 5"

- NOTE:
- STRUCTURES WITHIN 250 FT OF RUNWAY CENTERLINE AND 50 FT OF EDGE OF PAVEMENT OF TAXIWAY PRECAST STRUCTURES ARE TO BE DESIGNED FOR A MINIMUM AIRCRAFT WHEEL LOAD OF 84,000 LB AND TIRE PRESSURE OF 95 PSI AND MEET THE MINIMUM REQUIREMENTS OF ASTM C478.
  - STRUCTURES WITHIN 250 FT OF RUNWAY CENTERLINE AND 50 FT OF EDGE OF PAVEMENT OF TAXIWAY DRAIN CASTINGS SHALL BE CAST IRON AND BE AIRPORT RATED AND MEET THE MINIMUM AIRCRAFT WHEEL LOAD OF 840,000 LB AND TIRE PRESSURE OF 95 PSI.

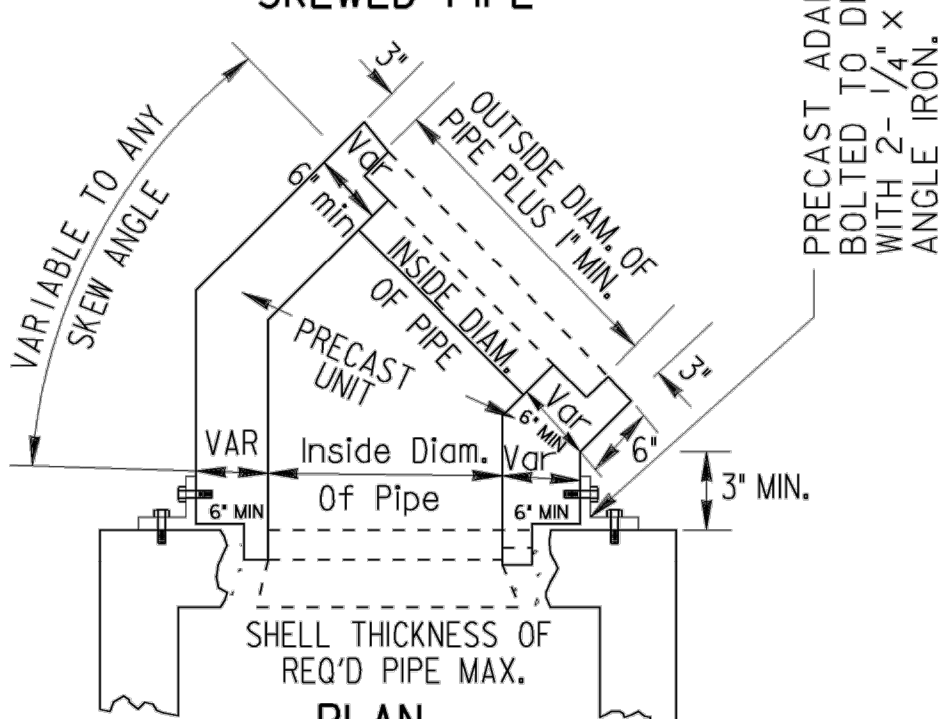


NOTE: FOR REINF. STEEL, SEE DETAIL UNDER TYPE "C"

NOTE: CONNECTION SHOWN ABOVE FOR USE WHERE CONCRETE OUTLET PIPE DOES NOT HAVE BELL OR HUB END PROVIDED AT STRUCTURE OUTLET.



ALTERNATE METHOD OF CONNECTION SKEWED PIPE



ALTERNATE METHODS OF CONNECTING SKEWED PIPES MAY INCLUDE PIPE ELBOWS OR CIRCULAR PRECAST BASE UNITS. SEE SEPARATE STANDARDS.

NOTE: REINFORCING STEEL SHALL BE No. 4 STEEL BARS AT 12" O.C. BOTH WAYS OR EQUIVALENT WIRE FABRIC REINFORCING.

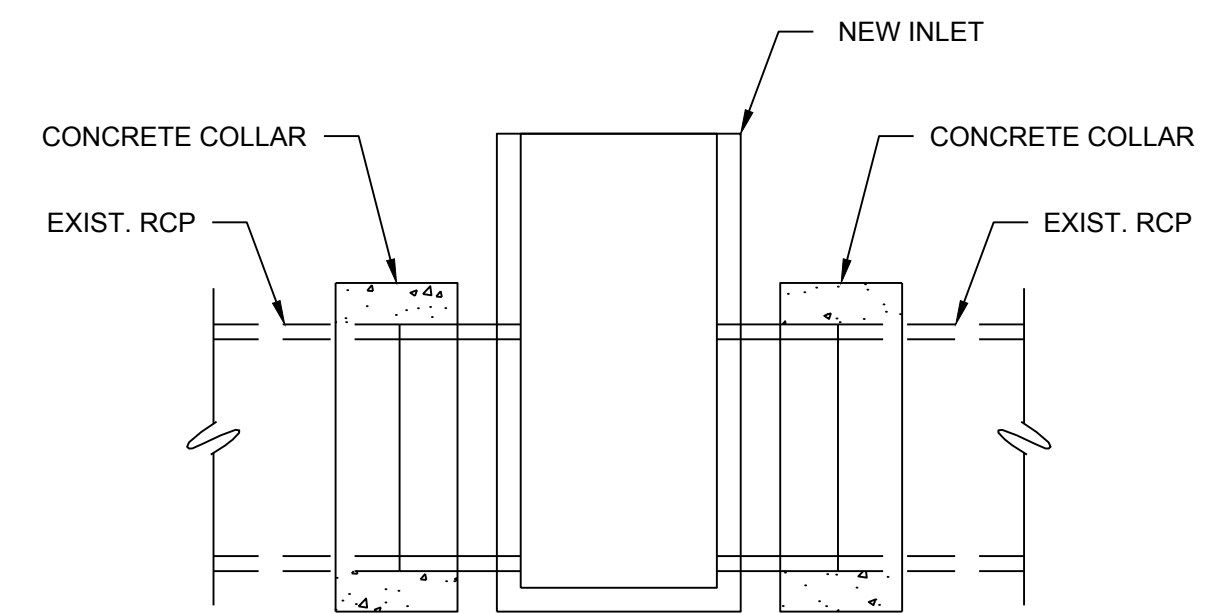
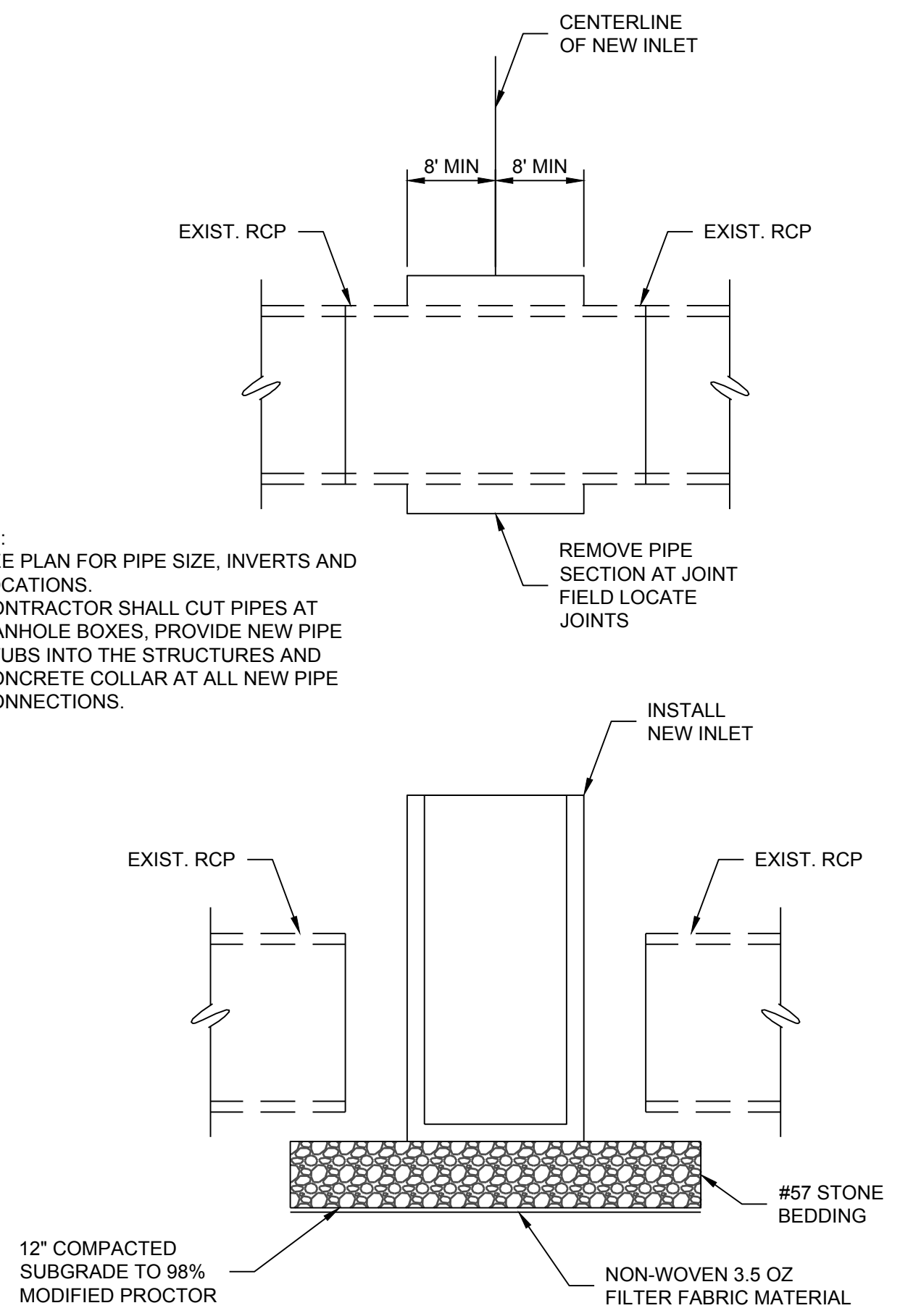
SPECIAL NOTE: STANDARD IO19A INLETS ARE FOR USE AT LOW POINTS AND WHERE HYDRAULIC LOW CAPACITY GRATES ARE SUFFICIENT. WHERE HIGHER CAPACITY GRATES ARE NEEDED ON A CONTINUOUS GRADE, STANDARD IO19B IS RECOMMENDED.

**A1** PRECAST DROP INLET (DI)  
NO SCALE (GDOT)

METHOD OF CONNECTING PIPE

- STEP 1  
CUT CONCRETE PIPE LEAVING APPROXIMATELY 3" OF REINFORCING MESH EXPOSED.
- STEP 2  
POSITION PIPE APPROXIMATELY 3" INTO OPENING OF WALL.
- STEP 3  
POSITION CONICAL CORE INSIDE OF PIPE AND SEAL WITH GROUT (1/2" MIN. THICKNESS OF GROUT). REMOVE CORE WHEN SET AND RUB GROUT TO SEAL JOINTS.

- NOTES:
- SEE PLAN FOR PIPE SIZE, INVERTS AND LOCATIONS.
  - CONTRACTOR SHALL CUT PIPES AT MANHOLE BOXES. PROVIDE NEW PIPE STUBS INTO THE STRUCTURES AND CONCRETE COLLAR AT ALL NEW PIPE CONNECTIONS.



**A2** INSTALLATION OF NEW INLET AT EXISTING PIPE  
NO SCALE

(AT ALL NEW STRUCTURES ADDED IN EXISTING CULVERT SECTIONS)

US Army Corps of Engineers  
Louisville District

James R. Warner, P.E.  
P.E. No. 032950, GA

REGISTERED PROFESSIONAL ENGINEER  
No. PE032950  
JAMES R. WARNER  
5-20-19

DATE	DESCRIPTION	MARK

ISSUE DATE: 05/20/2019  
SOLICITATION NO.:  
CONTRACT NO.:  
FILE NUMBER:  
FILE NAME: 470564-C-500.dwg  
ANSI: 470564-C-500.dwg

DESIGNED BY: J. WARNER  
CHECKED BY: B. MATTHEWS  
SUBMITTED BY: S. BAILEY  
SIZE: ESA

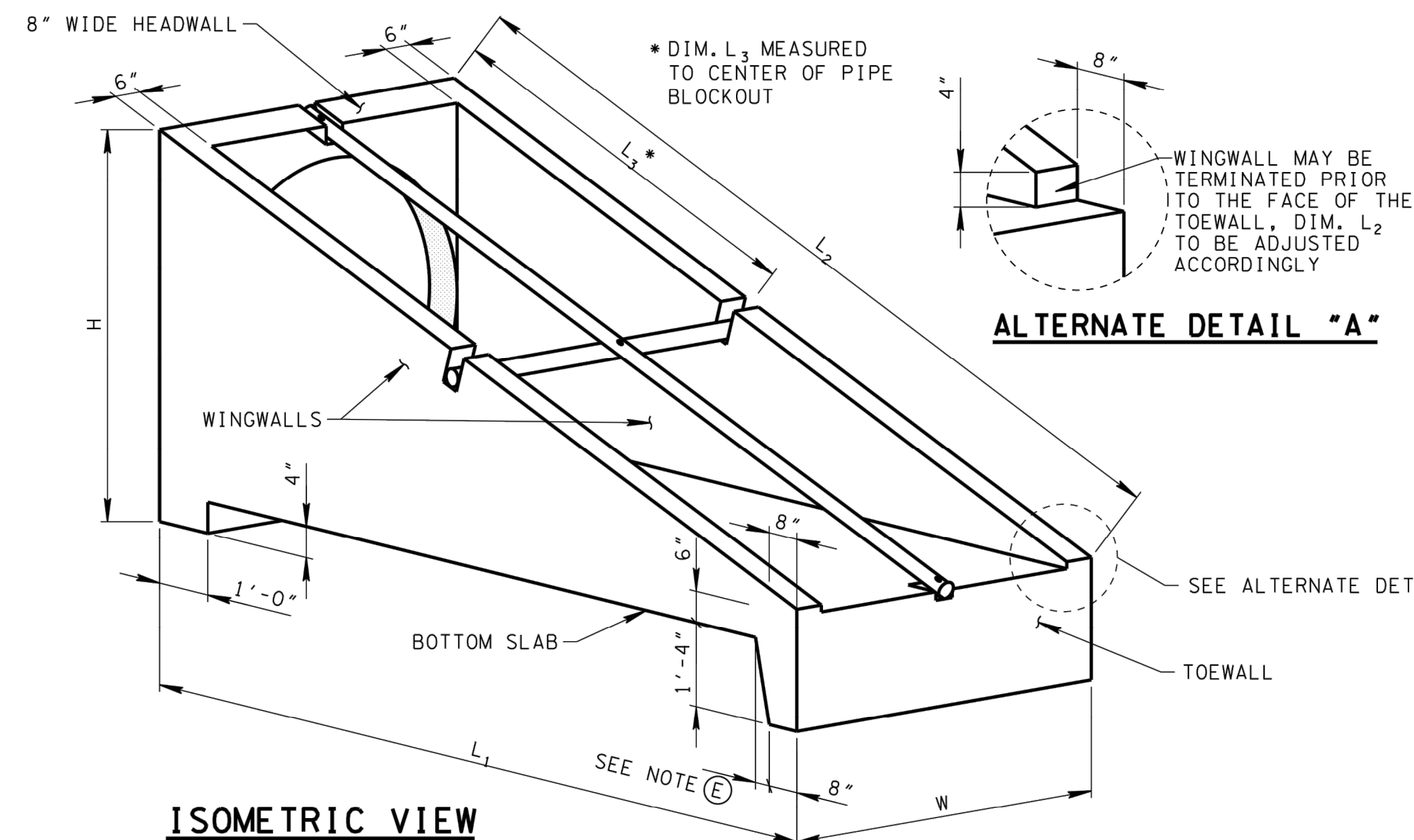
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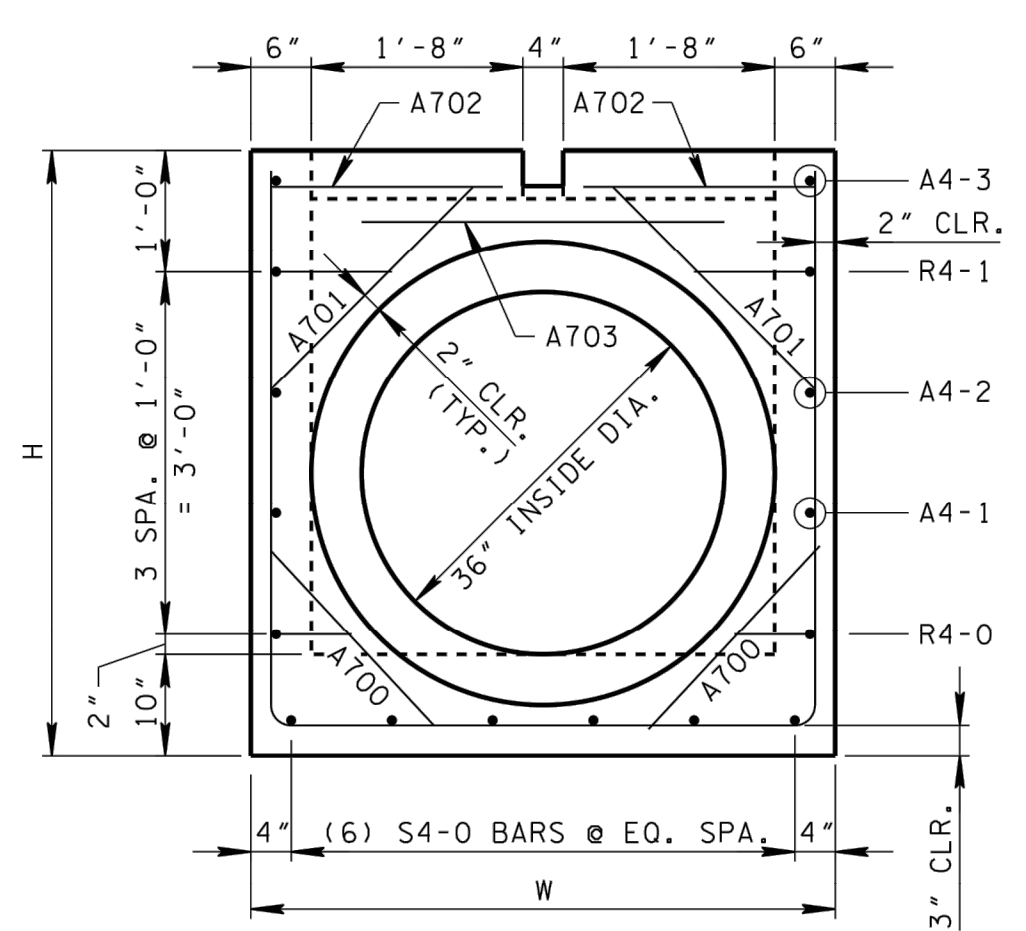
DOBBS AIRFIELD STORM WATER SYSTEM PHASE 2  
DOBBS AIR RESERVE BASE, GEORGIA  
PROJECT NO.: FGWB 04-0014P2A/B  
P#: 470564

CIVIL DETAILS

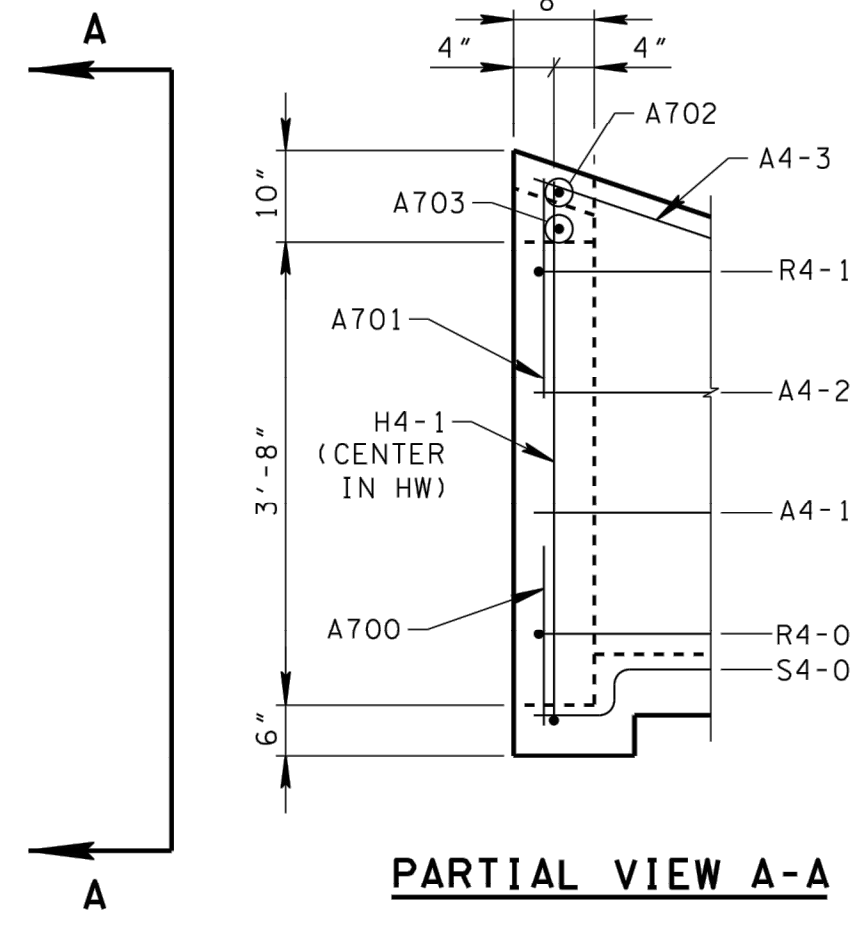
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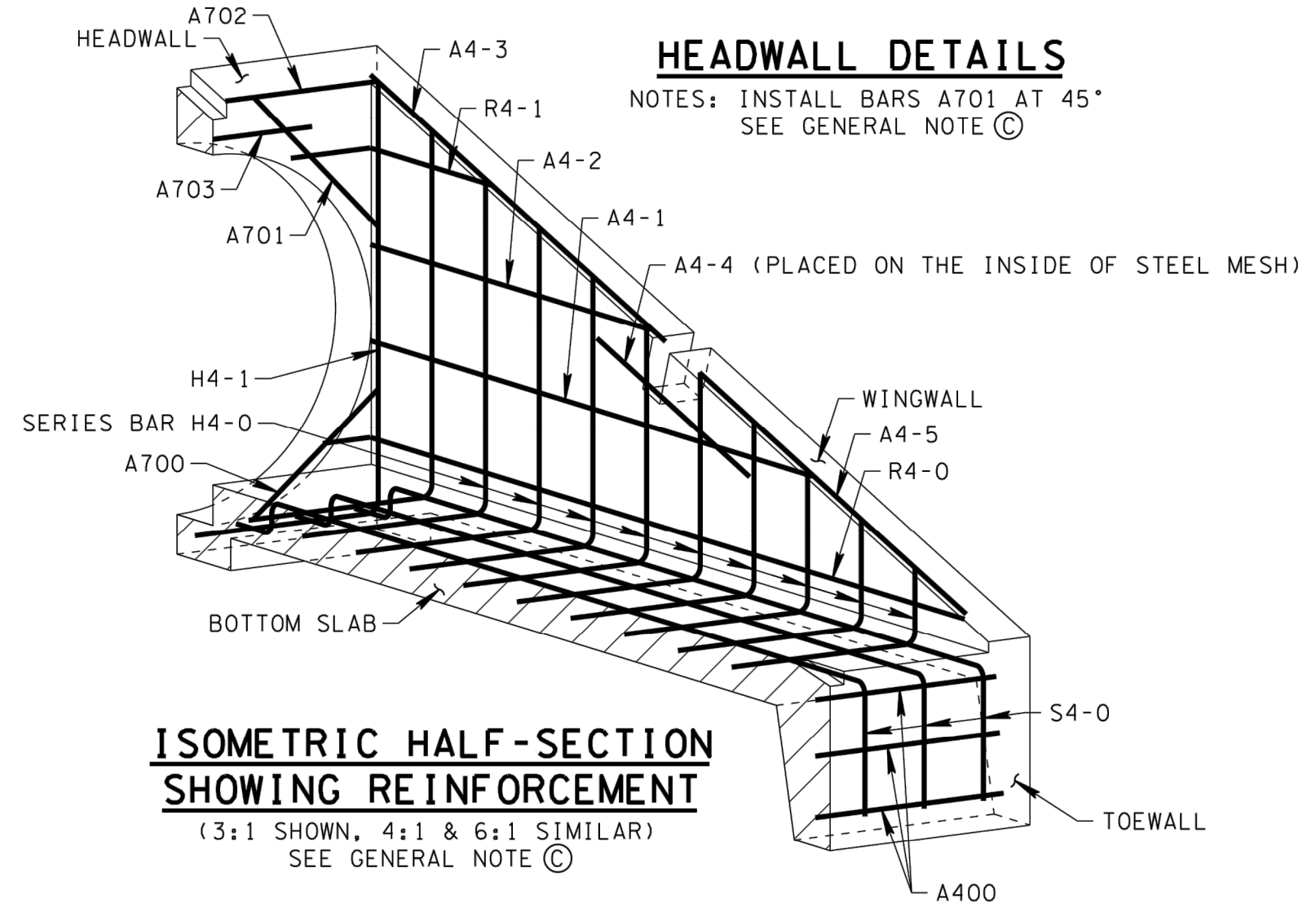
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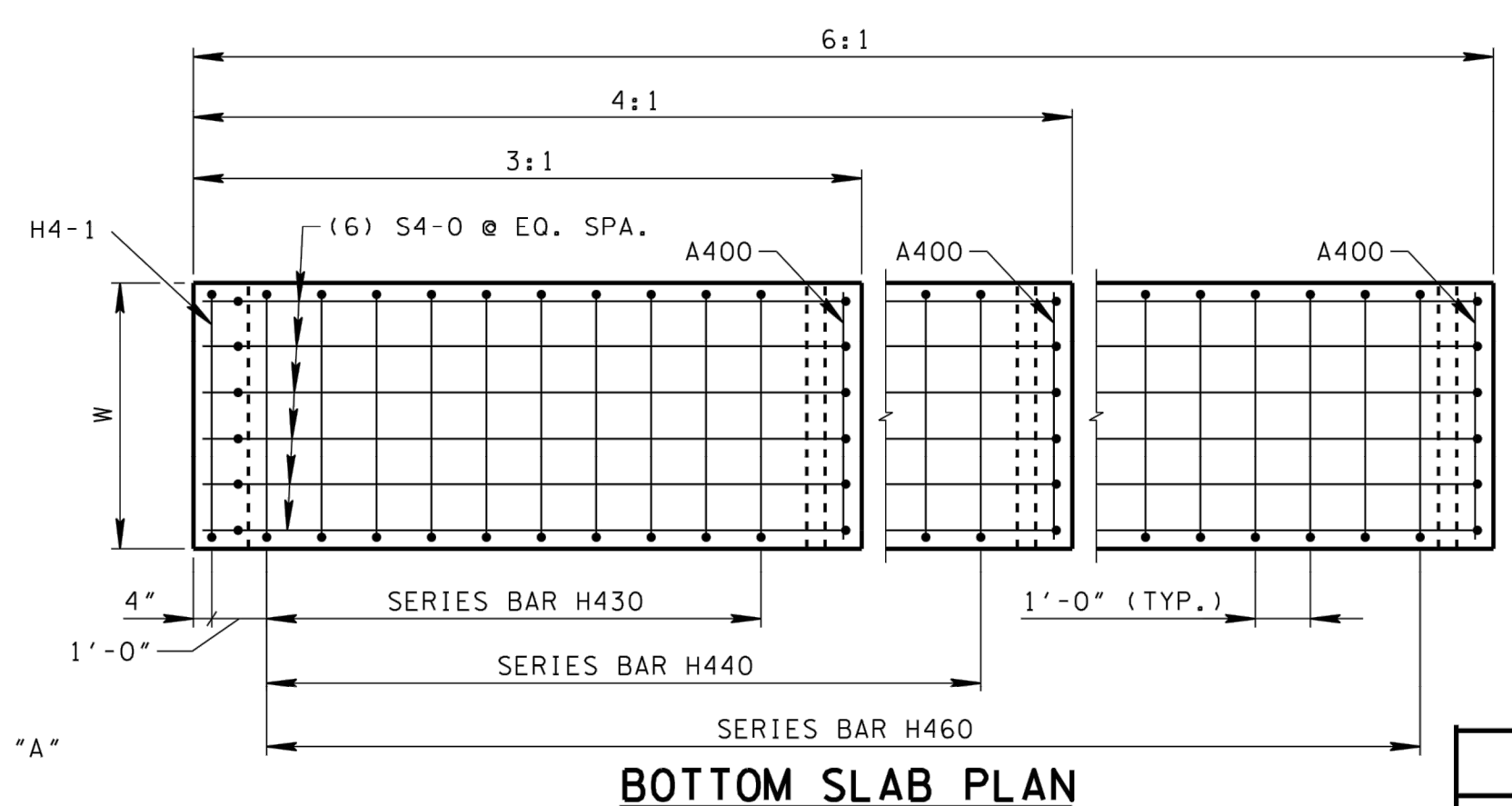
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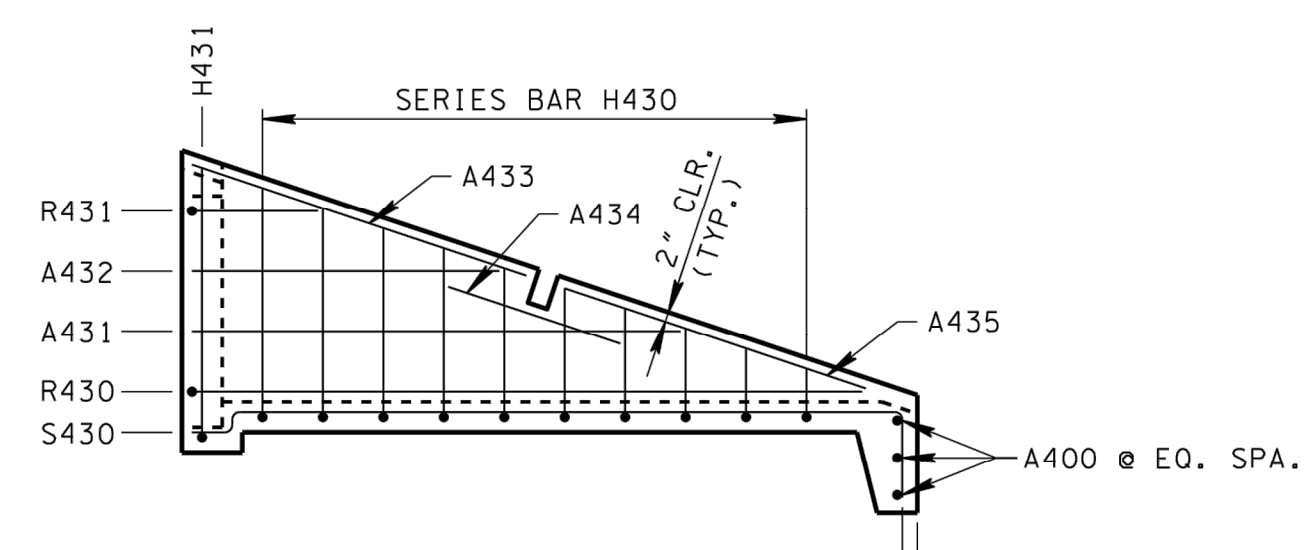
**PARTIAL VIEW A-A**



**ISOMETRIC HALF-SECTION SHOWING REINFORCEMENT**  
(3:1 SHOWN, 4:1 & 6:1 SIMILAR)  
SEE GENERAL NOTE (E)

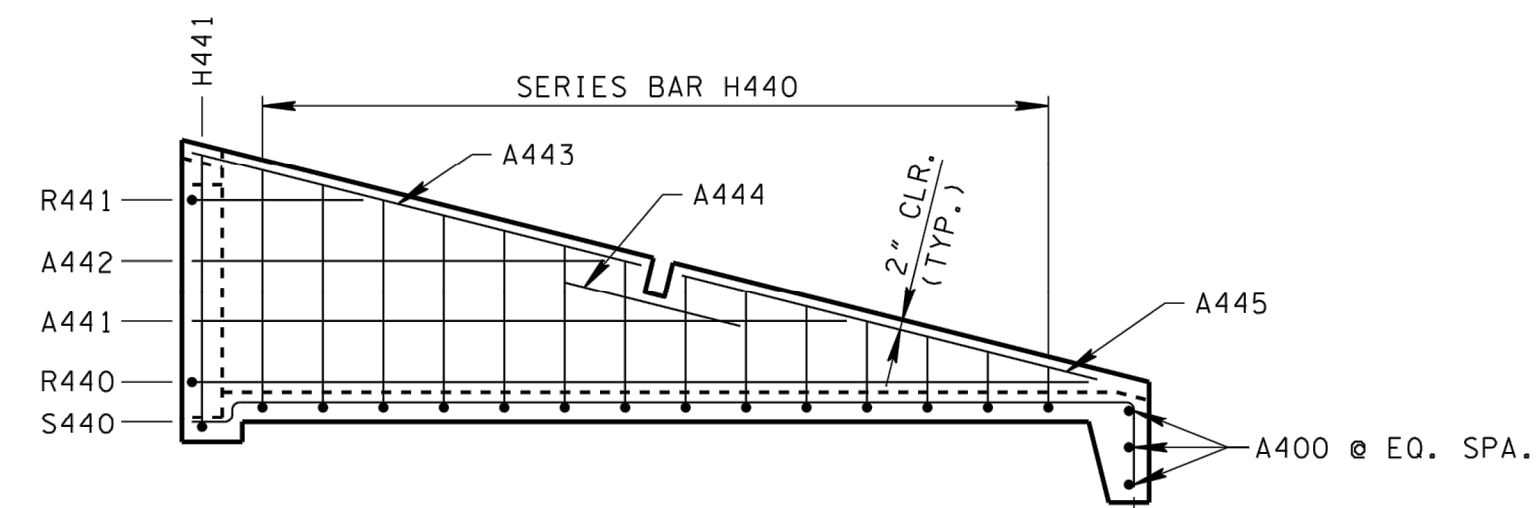


**BOTTOM SLAB PLAN**



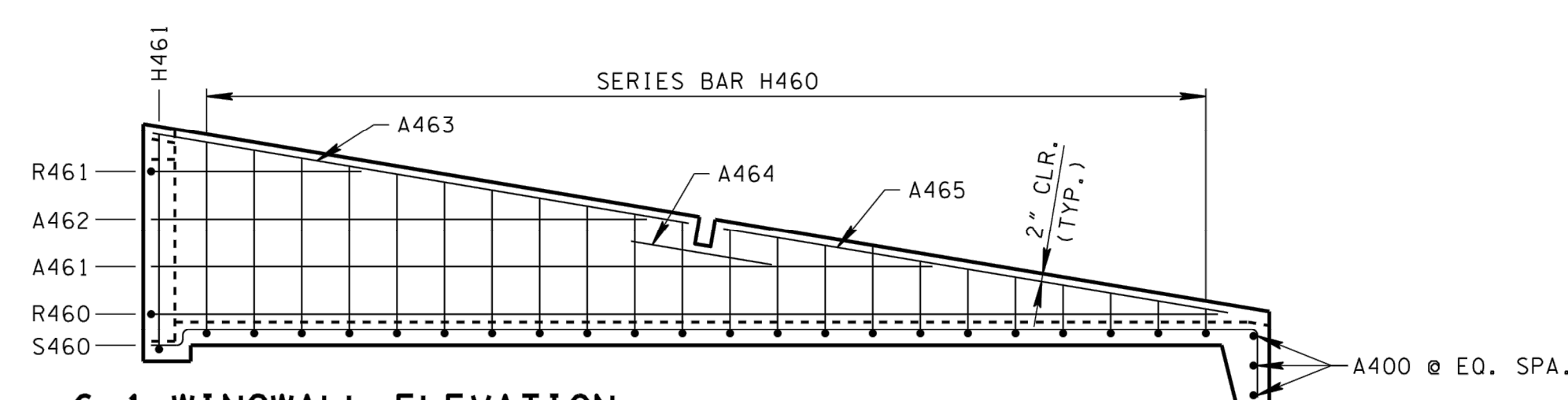
**3:1 WINGWALL ELEVATION**

NOTE: A-BARS IN HEADWALL NOT SHOWN FOR CLARITY.



**4:1 WINGWALL ELEVATION**

NOTE: A-BARS IN HEADWALL NOT SHOWN FOR CLARITY.



**6:1 WINGWALL ELEVATION**

NOTE: A-BARS IN HEADWALL NOT SHOWN FOR CLARITY.

- GENERAL NOTES**
- (A) DRAWING TO BE USED FOR ALL CAST-IN-PLACE AND ALL PRECAST 36" CONCRETE ENDWALLS (TYPE "U") FOR CROSS DRAINS ONLY. "U" ENDWALL TO BE PLACED AT 90° SKEW TO CENTERLINE.
  - (C) "-" IN BAR DESIGNATION REPRESENTS 3, 4 OR 6 FOR 3:1, 4:1 OR 6:1 SLOPES, RESPECTIVELY.
  - (D) SPLICING OF REINFORCEMENT IS ACCEPTABLE PROVIDED THAT A MINIMUM 21" SPLICE LENGTH IS USED.
  - (E) TOEWALL BACK SLOPE MAY BE CONSTRUCTED VARIABLE FROM VERTICAL UP TO 15°.
  - (G) THE CONTRACTOR MAY ELECT TO SUBSTITUTE AN APPROVED ALTERNATIVE DESIGN.

DIMENSIONS AND QUANTITIES FOR ONE ENDWALL 36" PIPE										
SLOPE	CONCRETE ENDWALL DIMENSIONS					STRUCTURAL STEEL PIPE DIMENSIONS		ESTIMATED QUANTITIES		
	H	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	W	LG	WG	CLASS "A" CONC. CU. YD.	STEEL BAR REINF. LB.	STRUCTURAL STEEL LB.
4:1	5' - 0"	16' - 0"	16' - 5 1/2"	8' - 2 1/2"	4' - 8"		4' - 8"	3.08	276	160

**A1** ENDWALL - 36" PIPE  
NO SCALE (GDOT)

NOTE:  
SEE SHEET C-505 FOR BILL OF STEEL.

US Army Corps of Engineers  
Louisville District

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JAMES R. WARNER  
5-20-19

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DOBBINS AIR RESERVE BASE, GEORGIA  
PROJECT NO.: FGWB 04-0014P2A/B  
P#: 470564

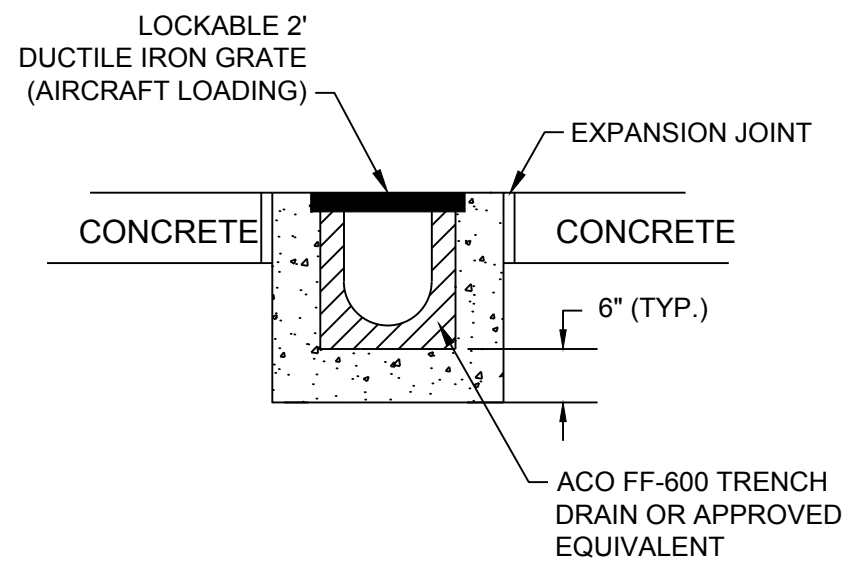
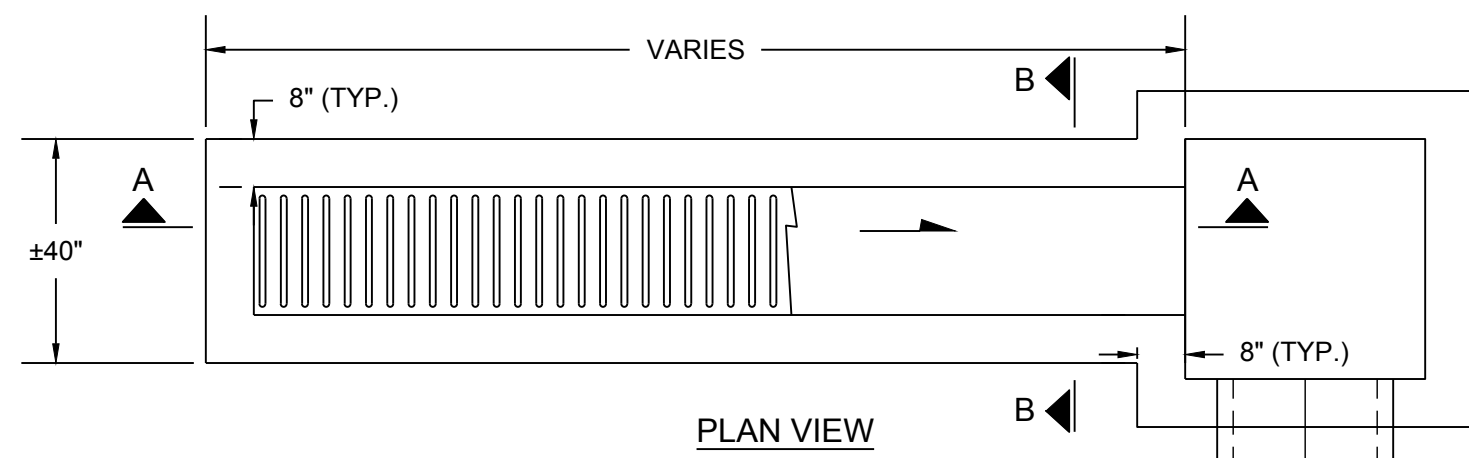
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SHEET ID  
**C-504**

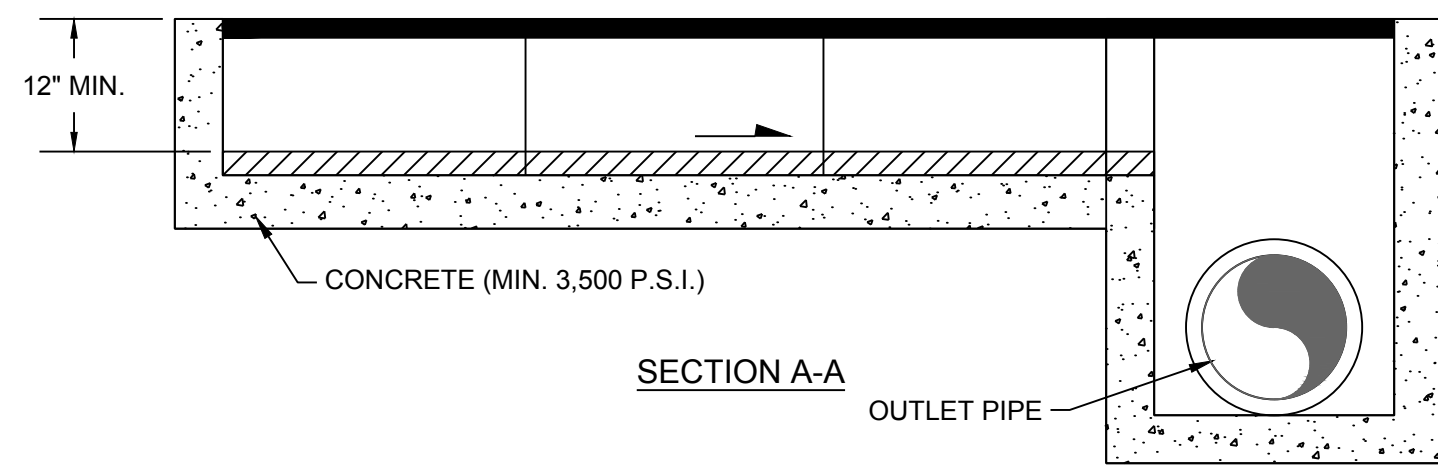




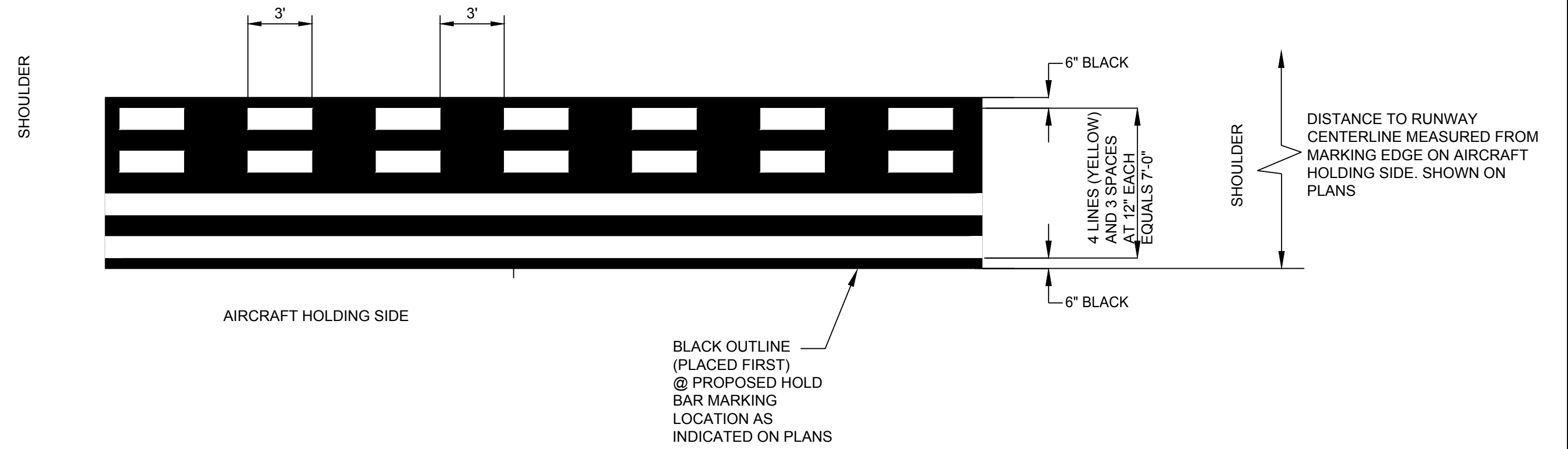




- NOTES:
- SUBGRADE SHALL BE COMPACTED TO 95% MOD. PROCTOR DENSITY (AASHTO T-180)
  - CONNECT TRENCH DRAIN TO OUTFALL PIPE IN ACCORDANCE WITH:
    - ALTERNATIVE-A: FOR A TERMINAL CONNECTION USE ONE (1) 90° ELBOW
    - ALTERNATIVE-B: FOR AN IN-LINE CONNECTION USE ONE (1) 45° ELBOW AND ONE (1) WYE.



**C2** TRENCH DRAIN  
NO SCALE



- NOTE:
- CONTROL DUST IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL POLLUTION CONTROL REGULATIONS.
  - EXTEND TAXIWAY CENTERLINES THROUGH TO EDGE OF PAVED AREA.
  - PRESSURE WASH TO CLEAN PROPOSED HOLD POSITION MARKING AREAS AS SHOWN.
  - TESTING OF THE PAINT PER SECTION 32 17 23, EXECUTE THE TESTING REQUIREMENT PER SECTION 32 17 23 AND SUBMIT TEST RESULTS TO OWNER.

**B4** HOLDING POSITION MARKING REPLACEMENT DETAIL  
NO SCALE

US Army Corps of Engineers®  
Louisville District

James R. Warner, P.E.  
P.E. No. 032950, GA

REGISTERED PROFESSIONAL ENGINEER  
No. PE032950  
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5-20-19

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SUBMITTED BY: S. BAILEY	CONTRACT NO.:
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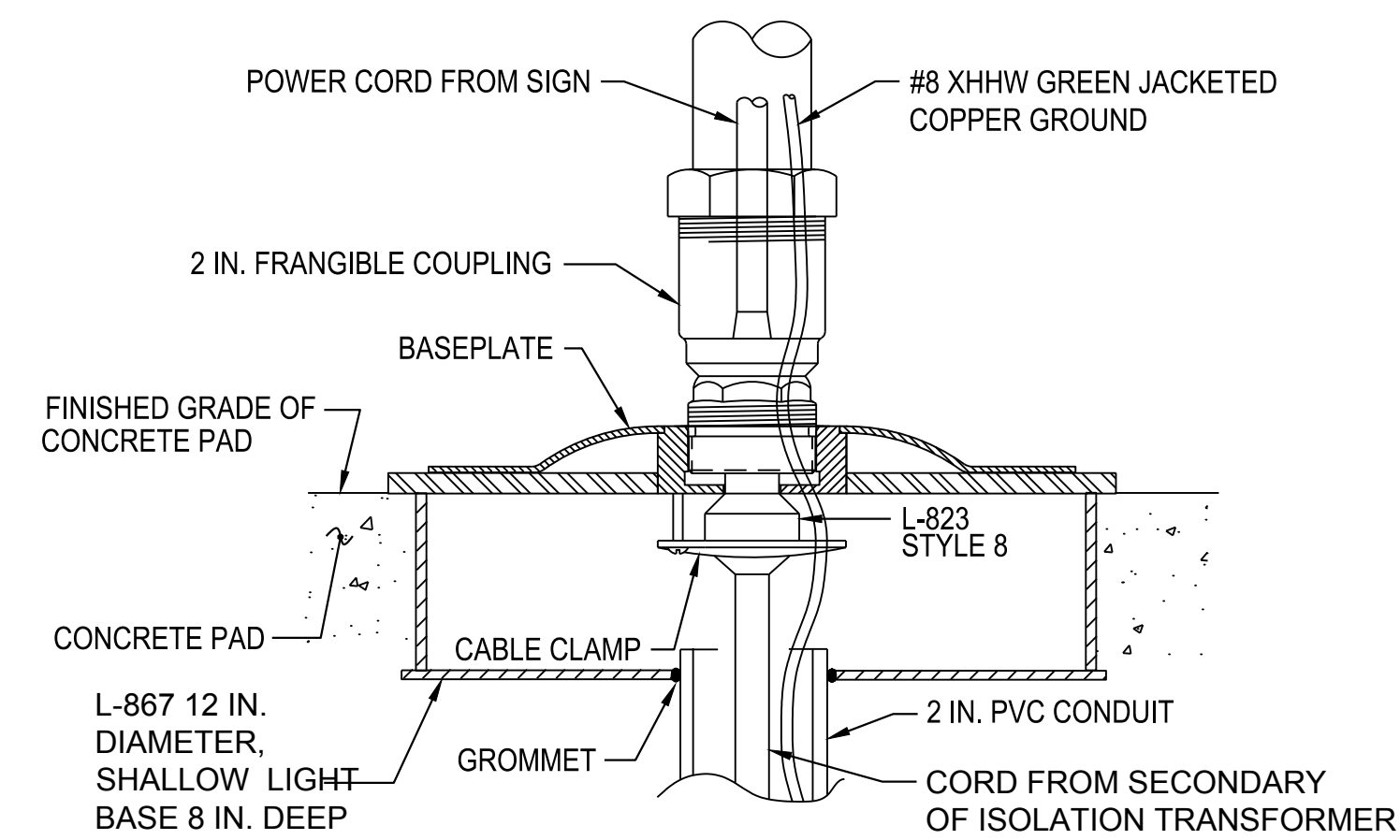
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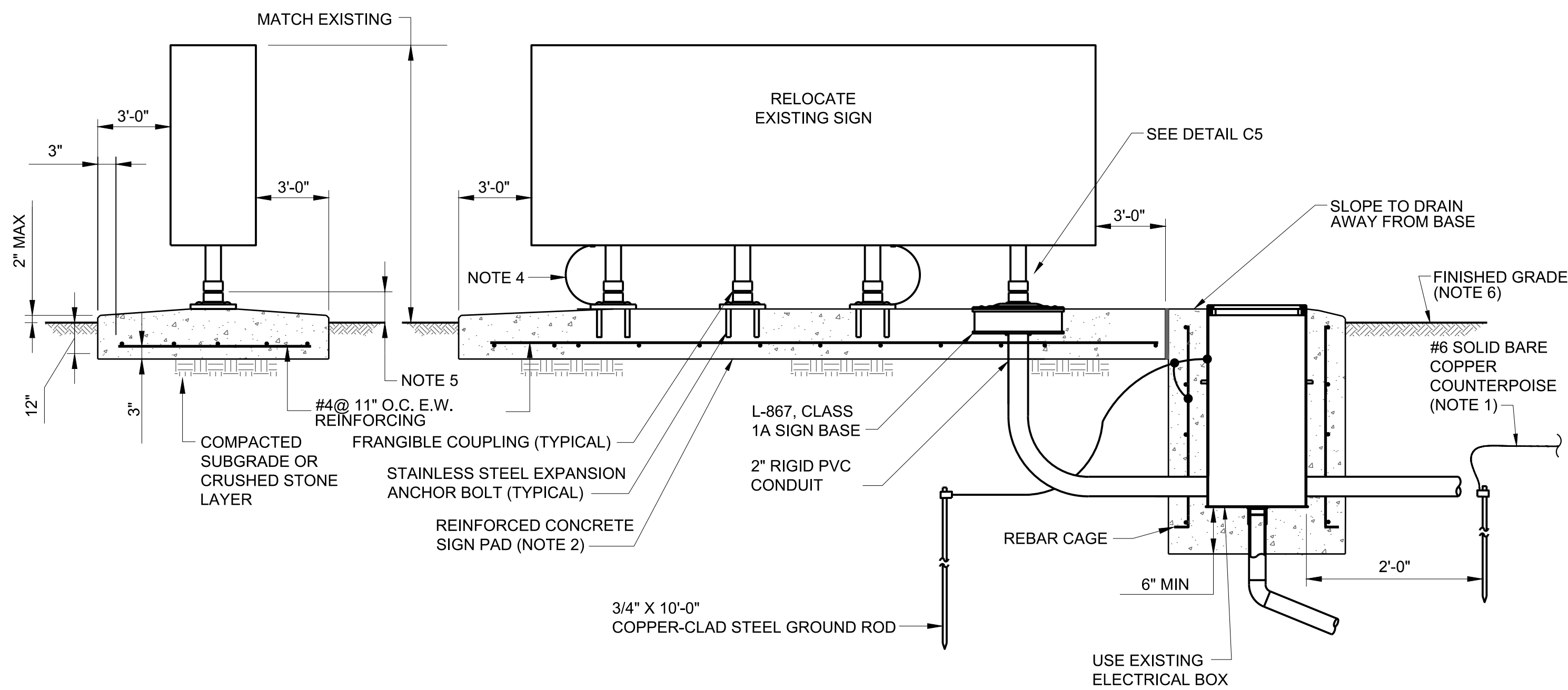
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2800 PARKWAY, SUITE 200  
PLACEMINT, GEORGIA, GA 30092  
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DOBBINS AIRFIELD STORM WATER SYSTEM PHASE 2  
DOBBINS AIR RESERVE BASE, GEORGIA  
PROJECT NO.: FGWB 04-0014P2A/B  
P2#: 470564  
CIVIL DETAILS

SHEET ID  
**C-507**



**C5** DETAIL  
NO SCALE



**A3** SIGN BASE DETAILS  
NO SCALE

**DRAWING NOTES - FIGURE 29A (AIR FORCE / ARMY):**

- DO NOT CONNECT COUNTERPOISE TO THE TRANSFORMER BASE. CONNECT TRANSFORMER BASE AND COUNTERPOISE TO SEPARATE GROUND RODS.
- SIGN PAD MUST HAVE A 1/2" CHAMFER ON ALL EXPOSED HORIZONTAL EDGES. EXTEND PAD 36" CLEAR ON ALL SIDES OF SIGN. SLOPE THE TOP SURFACE TO DRAIN AWAY FROM SIGN, APPROXIMATELY 1% (1/8" FT). THE TOP OF THE PAD MUST BE APPROXIMATELY 1" ABOVE THE SURROUNDING GRADE.
- REUSE EXISTING SIGN.
- ONE TETHER AT EACH END OF THE SIGN IF SEPARATE SIGN MODULES ARE CONNECTED TOGETHER WITHIN A CONTINUOUS FRAME.
- THE FRANGIBILITY POINT MUST BE NO GREATER THAN 3" ABOVE THE GRADE ADJACENT TO THE PAD.
- SURROUNDING GRADE MUST SLOPE 1/4" PER FOOT AWAY FROM THE PAD FOR 15'-0". SOD OR SEED AS REQUIRED.

US Army Corps of Engineers  
Louisville District

James R. Warner, P.E.  
P.E. No. 032950, GA

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DOBBINS AIR RESERVE BASE, GEORGIA  
PROJECT NO.: FGWB 04-0014P2A/B  
P2#: 470564

CIVIL DETAILS

SHEET ID  
**C-508**

STRUCTURE TABLE C-101

STRUCTURE NAME	STRUCTURE TYPE	STRUCTURE DETAIL	COMMENTS
S-50	ABANDON DI (2'x3')	RIM = 1017.22' INV OUT = 1013.20' (SE)	
S-51	ABANDON DI (2'x3')	RIM = 1017.24' INV IN = 1011.80' (NW) INV OUT = 1011.40' (E)	
S-52	HW ABANDON IN PLACE EXISTING HEADWALL	RIM = 1010.02' INV IN = 1009.00' (W)	
S-53	DI (2'x3')	RIM = 1032.62' INV OUT = 1026.30' (N)	
S-54	HW	RIM = 1027.65' INV IN = 1024.90' (S)	
S-100	DI (2'x3')	RIM = 1026.89' INV OUT = 1023.10' (E)	
S-110	DI (2'x3')	RIM = 1024.52' INV IN = 1003.90' (W) INV IN = 1003.90' (E) INV OUT = 1003.80' (NE)	
S-140	JB RAISE TOP TO EXISTING GRADE	RIM = 1015.50' INV IN = 993.89' (SW) INV IN = 994.14' (S) INV OUT = 993.89' (NE)	
S-170	JB TO REMAIN	RIM = 981.07' INV IN = 975.40' (S) INV OUT = 971.40' (N)	
S-175	HW REPLACE EXISTING HEADWALL AND INSTALL SECURITY GRATE	RIM = 973.93' INV IN = 971.18' (S)	
S-180	NEW AREA DRAIN	RIM = 993.88' INV OUT = 988.80' (N)	

STRUCTURE TABLE C-102

STRUCTURE NAME	STRUCTURE TYPE	STRUCTURE DETAIL	COMMENTS
S-130	D1 (2'x3')	RIM = 1021.93' INV OUT = 1018.60' (W)	
S-150	HW REPLACE HEADWALL AND INSTALL SECURITY GRATE	RIM = 975.13' INV IN = 971.30' (SW)	
S-260	HW REPLACE EXISTING HEADWALL AND INSTALL SECURITY GRATE	RIM = 973.11' INV IN = 970.90' (S)	
S-270	HW REPLACE EXISTING HEADWALL AND INSTALL SECURITY GRATE	RIM = 974.19' INV IN = 970.90' (SE)	
S-330	DI NEW INLET REPLACE STRUCTURE	RIM = 991.97' INV OUT = 986.80' (NE)	
S-332	REMOVE AND REPLACE DI	RIM = 989.11' INV OUT = 983.00' (N)	
S-333	JB	RIM = 977.94' INV IN = 972.00' (S) INV OUT = 964.10' (NE)	
S-334	HW INSTALL SECURITY GRATE	RIM = 968.29' INV IN = 965.00' (SW)	
S-340	HW INSTALL SECURITY GRATE	RIM = 975.89' INV IN = 972.60' (SW)	
S-400	JB	RIM = 1000.25' INV IN = 994.82' (E)	

STRUCTURE TABLE C-103

STRUCTURE NAME	STRUCTURE TYPE	STRUCTURE DETAIL	COMMENTS
S-410	GI	RIM = 1018.37' INV OUT = 1015.11' (W)	
S-420	GI	RIM = 1018.33' INV OUT = 1015.50' (NE)	
S-430	GI	RIM = 1016.26' INV IN = 1012.05' (SW)	
S-440	GI	RIM = 1015.65' INV OUT = 1013.44' (SW)	
S-450	GI	RIM = 1016.23' INV IN = 1013.44' (NE) INV OUT = 1013.44' (SW)	
S-460	GI	RIM = 1016.50' INV IN = 1013.44' (NE)	
S-500	PIPE	INV IN = 996.94' (W)	
S-510	-	RIM = 1000.90' INV IN = 996.98' (W) INV OUT = 996.98' (E)	
S-520	PIPE	RIM = 1011.19' INV IN = 1008.22' (W) INV IN = 1008.22' (S) INV OUT = 1008.22' (E)	
S-525	PIPE	INV OUT = 1012.79' (N)	
S-530	GI	RIM = 1013.95' INV IN = 1009.64' (S) INV OUT = 1009.64' (E)	
S-540	GI	RIM = 1014.64' INV IN = 1010.50' (SE) INV OUT = 1010.50' (N)	
S-550	GI	RIM = 1015.71' INV IN = 1011.58' (S) INV OUT = 1011.58' (NW)	
S-560	GI	RIM = 1016.30' INV IN = 1012.06' (SE) INV OUT = 1012.06' (N)	
S-570	GI	RIM = 1015.29' INV OUT = 1013.08' (NW)	
S-610	DI	RIM = 978.10' INV IN = 971.66' (SW) INV OUT = 971.66' (N)	
S-620	SP BOX	RIM = 980.47' INV IN = 973.57' (S) INV OUT = 973.52' (NE) INV OUT = 973.52' (NW)	
S-625	NEW HW	RIM = 978.51' INV IN = 973.59' (SE)	
S-630	YI	RIM = 984.02' INV IN = 975.62' (S) INV OUT = 975.62' (N)	
S-640	YI (THIS IS STMH)	RIM = 998.19' INV IN = 980.99' (S) INV IN = 976.59' (E) INV OUT = 976.59' (N)	
S-650	JB	RIM = 1012.57' INV IN = 1008.30' (NW) INV OUT = 1008.30' (SW)	
S-651	JB	RIM = 1011.13' INV IN = 1007.80' (NE) INV OUT = 1006.40' (NW)	
S-652	DI	RIM = 1011.04' INV IN = 1006.10' (SE) INV OUT = 1005.90' (NW)	

STRUCTURE TABLE C-103

STRUCTURE NAME	STRUCTURE TYPE	STRUCTURE DETAIL	COMMENTS
S-653	DI	RIM = 1010.77' INV IN = 1005.50' (SE) INV OUT = 1005.00' (NW)	
S-654	JB	RIM = 1010.70' INV IN = 1004.90' (SE) INV IN = 1004.78' (NE) INV OUT = 1004.68' (NW)	
S-655	PIPE	INV OUT = 1006.08' (W)	
S-656	JB	RIM = 1010.30' INV IN = 1005.90' (SE) INV OUT = 1005.10' (SW)	
S-657	JB	RIM = 1009.03' INV IN = 1003.50' (SE) INV OUT = 993.60' (W)	
S-658	GI	RIM = 1009.78' INV OUT = 985.20' (N)	
S-659	REPLACE JB AND RAISE TO GRADE	RIM = 995.86' INV IN = 993.11' (E) INV IN = 993.11' (S) INV OUT = 993.11' (W)	
S-660	STMH	RIM = 1011.00' INV IN = 987.73' (S) INV OUT = 981.88' (N)	
S-661	JB	RIM = 1011.16' INV IN = 1006.40' (E) INV IN = 1007.10' (W) INV OUT = 1006.30' (NW)	
S-670	JB	RIM = 1010.23' INV IN = 988.00' (S) INV IN = 1001.60' (E) INV OUT = 987.90' (N)	
S-671	PIPE	INV OUT = 1007.20' (E)	
S-672	PIPE	INV OUT = 1008.89' (E)	
S-673	PIPE	INV OUT = 1009.40' (SW)	
S-674	GI	RIM = 1012.85' INV IN = 1004.10' (SE) INV OUT = 1003.60' (W)	
S-675	DI	RIM = 1010.11' INV OUT = 1005.00' (NW)	
S-676	DI	RIM = 1012.13' INV IN = 1008.80' (W) INV IN = 1009.20' (NE) INV OUT = 1009.10' (SE)	
S-710	GI REPLACE	RIM = 1011.67' INV IN = 1010.00' (SE) INV OUT = 1009.90' (NW)	
S-711	GI	RIM = 1012.37' INV IN = 1010.70' (SE) INV OUT = 1010.20' (NW)	
S-720	GI REPLACE	RIM = 1011.67' INV IN = 1009.20' (SE) INV OUT = 1009.20' (NW)	
S-730	STMH REPLACE	RIM = 1012.30' INV IN = 1008.90' (SE) INV OUT = 1008.90' (NE) INV OUT = 1009.86' (NW)	
S-740	NEW GI	RIM = 1014.07' INV IN = 1009.61' (SE) INV OUT = 1010.96' (NE)	

- STRUCTURE TYPES
- CB CATCH BASIN
  - CI CURB INLET
  - CO CLEAN OUT
  - DI DROP INLET
  - DWCB DOUBLE WALL CATCH BASIN
  - FES FLARED END SECTION
  - GI GRATE INLET
  - HW HEADWALL
  - JB JUNCTION BOX
  - MES MITERED END SECTION
  - SP BOX SPLITTER BOX
  - STMH STORM MANHOLE
  - SWCB STORM WATER CATCH BASIN
  - TD TRENCH DRAIN
  - YI YARD INLET

STRUCTURE TABLE C-104

STRUCTURE NAME	STRUCTURE TYPE	STRUCTURE DETAIL	COMMENTS
S-750	REPLACE EXISTING DI	RIM = 1011.27' INV IN = 1007.00' (SW) INV IN = 1007.00' (SW) INV OUT = 1006.20' (NE)	
S-752	DI	RIM = 1007.46' INV OUT = 1003.50' (E)	
S-760	DI	RIM = 1005.35' INV IN = 1001.50' (SW) INV IN = 1001.70' (W) INV OUT = 1001.50' (NE)	
S-761	CB	RIM = 1003.00' INV IN = 999.70' (SE) INV OUT = 1000.70' (SE)	
S-762	CB	RIM = 1002.89' INV IN = 999.80' (SE) INV IN = 999.70' (NW) INV OUT = 1000.70' (NW) INV OUT = 999.50' (N)	
S-763	PIPE	INV OUT = 1000.01' (NW)	
S-764	PIPE	INV IN = 999.14' (S)	
S-770	DI	RIM = 1003.05' INV IN = 1001.24' (SW) INV IN = 1000.60' (W) INV IN = 1000.70' (SE) INV OUT = 1000.40' (NE)	
S-771	DI	RIM = 1006.02' INV OUT = 1001.70' (E)	
S-773	DI	RIM = 1004.17' INV OUT = 1002.50' (SE)	
S-774	DI	RIM = 1004.57' INV IN = 1002.91' (W) INV IN = 1001.00' (NW) INV OUT = 1000.90' (E)	
S-775	DI	RIM = 1005.63' INV IN = 1002.70' (S) INV OUT = 1001.50' (NW)	
S-776	SWCB	RIM = 1011.08' INV OUT = 1004.70' (N)	
S-780	JB	RIM = 1003.99' INV IN = 998.50' (SW) INV OUT = 998.40' (NE)	
S-781	JB	RIM = 1002.14' INV IN = 997.60' (SW) INV IN = 996.60' (S) INV OUT = 996.00' (E)	
S-783	DI	RIM = 997.24' INV IN = 995.58' (W) INV OUT = 993.00' (E)	
S-784	CI	RIM = 997.76' INV IN = 993.00' (W) INV OUT = 992.90' (NE)	
S-785	DI	RIM = 1004.68' INV IN = 1001.30' (W) INV OUT = 1001.30' (NE)	
S-786	PIPE	INV IN = 992.00' (SW)	
S-787	PIPE	INV OUT = 1001.54' (E)	
S-788	SWCB	RIM = 1004.39' INV OUT = 1001.20' (SW)	
S-789	DI	RIM = 1004.97' INV IN = 1001.00' (SW) INV IN = 1000.80' (NE) INV OUT = 1000.70' (N)	
S-791	PIPE	INV OUT = 987.69' (NE)	

US Army Corps of Engineers  
Louisville District

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MARK	DESCRIPTION	DATE

DESIGNED BY: J. WARNER	ISSUE DATE: 05/20/2019
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DOBBINS AIRFIELD STORM WATER SYSTEM PHASE 2  
DOBBINS AIR RESERVE BASE, GEORGIA

PROJECT NO.: FGWB 04-0014P2A/B  
P2#: 470954

STORM DRAINAGE  
STRUCTURE TABLES









