



# INDEX OF DRAWINGS

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GI003	INDEX OF DRAWINGS	S-001	CONTROL TOWER GENERAL STRUCTURAL NOTES	M1801	AAR BUILDING HVAC CONTROLS LEGEND
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VF104	CIVIL SITE EXISTING CONDITIONS - AREA 'C'	SB601	CONTROL TOWER FOUNDATION AND SPLICE LENGTH SCHEDULES	EP601	AAR BUILDING POWER RISER DIAGRAM
CD101	CIVIL SITE OVERALL DEMOLITION PLAN	SF501	CONTROL TOWER FRAMING DETAILS	EP701	AAR BUILDING PANEL SCHEDULES
CD102	CIVIL SITE DEMOLITION PLAN - AREA 'A'	SF502	CONTROL TOWER FRAMING DETAILS	EG101	AAR BUILDING LIGHTNING PROTECTION PLAN
CD103	CIVIL SITE DEMOLITION PLAN - AREA 'B'	SF503	PUMPHOUSE FRAMING DETAILS	EG501	AAR BUILDING MISC GROUNDING DETAILS
CD104	CIVIL SITE DEMOLITION PLAN - AREA 'C'	A-101	CONTROL TOWER FLOOR PLANS	T-001	AAR BUILDING LEGEND AND NOTES
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CG104	CIVIL SITE GRADING PLAN - AREA 'C'	IN101	CONTROL TOWER FURNITURE PLANS	SF501	OPERATIONS-STORAGE BUILDING FRAMING DETAILS
CG201	CIVIL SITE STORM DRAINAGE PROFILES	IN601	CONTROL TOWER ROOM FINISH SCHEDULE & FINISH LEGEND	SF502	OPERATIONS-STORAGE BUILDING FRAMING DETAILS
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ES103	SITE POWER PLAN - AREA B	EP501	CONTROL TOWER ELECTRICAL DETAILS	M1801	OPERATIONS-STORAGE BUILDING HVAC CONTROLS LEGEND
ES104	SITE POWER PLAN - AREA C	EP601	CONTROL TOWER POWER RISER DIAGRAM	M1802	OPERATIONS-STORAGE BUILDING SYSTEM CONTROLS
ES105	SITE POWER PLAN - AREA D	EP701	CONTROL TOWER PANEL SCHEDULES	E-001	OPERATIONS-STORAGE BUILDING LEGEND AND NOTES
ES106	SITE POWER PLAN - AREA E	EG101	CONTROL TOWER LIGHTNING PROTECTION PLAN	EL101	OPERATIONS-STORAGE BUILDING LIGHTING PLAN
ES107	SITE POWER PLAN - AREA F	EG501	CONTROL TOWER GROUNDING DETAILS	EL501	OPERATIONS-STORAGE BUILDING LIGHT FIXTURE SCHEDULE & DETAILS
ES108	SITE POWER PLAN - AREA G	T-001	CONTROL TOWER LEGEND AND NOTES	EL601	OPERATIONS-STORAGE BUILDING LIGHTING CONTROL SCHEDULES AND DETAILS
ES109	SITE POWER PLAN - AREA H	TN101	CONTROL TOWER COMMUNICATIONS PLAN	EL602	OPERATIONS-STORAGE BUILDING LIGHTING CONTROL DIAGRAMS
ES110	SITE TELECOMMUNICATIONS PLAN - OVERALL	TN501	CONTROL TOWER COMMUNICATIONS DETAILS	EP101	OPERATIONS-STORAGE BUILDING POWER PLAN
ES111	SITE TELECOMMUNICATIONS PLAN - AREA A	TN502	CONTROL TOWER COMMUNICATIONS DETAILS	EP501	OPERATIONS-STORAGE BUILDING ELECTRICAL DETAILS
ES112	SITE TELECOMMUNICATIONS PLAN - AREA B	TN503	CONTROL TOWER COMMUNICATIONS DETAILS	EP601	OPERATIONS-STORAGE BUILDING POWER RISER DIAGRAM
ES113	SITE TELECOMMUNICATIONS PLAN - AREA C	TN601	CONTROL TOWER COMMUNICATIONS DIAGRAMS	EP701	OPERATIONS-STORAGE BUILDING PANEL SCHEDULES
ES114	SITE TELECOMMUNICATIONS PLAN - AREA D	TN602	CONTROL TOWER COMMUNICATIONS DIAGRAMS	EG101	OPERATIONS-STORAGE BUILDING LIGHTNING PROTECTION PLAN
ES115	SITE TELECOMMUNICATIONS PLAN - AREA E	TN603	CONTROL TOWER COMMUNICATIONS DIAGRAM	EG501	OPERATIONS-STORAGE BUILDING MISC GROUNDING DETAILS
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ES603	TELECOMMUNICATIONS COPPER CABLING ONE-LINE DIAGRAM	SB501	AAR BUILDING FOUNDATION AND SLAB DETAILS	S-001	BLEACHER ENCLOSURE GENERAL STRUCTURAL NOTES
ES605	TELECOMMUNICATIONS DUCT BANK ONE-LINE DIAGRAM	SB601	AAR BUILDING FOUNDATION AND SPLICE LENGTH SCHEDULES	S-002	BLEACHER ENCLOSURE GENERAL STRUCTURAL NOTES
ES601	SITE POWER RISER DIAGRAM	SF501	AAR BUILDING FRAMING DETAILS	S-003	BLEACHER ENCLOSURE COMPONENTS AND CLADDING
ES604	TELECOMMUNICATIONS FOC CABLING ONE-LINE DIAGRAM	SF502	AAR BUILDING FRAMING DETAILS	S-101	BLEACHER ENCLOSURE FOUNDATION AND ROOF PLANS
ES602	SITE POWER ONE-LINE DIAGRAM	A-101	AAR BUILDING FLOOR PLAN	S-201	BLEACHER ENCLOSURE FRAMING ELEVATIONS
ES123	SITE LIGHTNING PROTECTION PLAN - OVERALL	A-102	AAR BUILDING REFLECTED CEILING PLAN & ROOF PLAN	SB501	BLEACHER ENCLOSURE FOUNDATION AND SLAB DETAILS
ES124	SITE LIGHTNING PROTECTION PLAN - AREA A	A-201	AAR BUILDING ELEVATIONS	SB601	BLEACHER ENCLOSURE FOUNDATION SCHEDULES
ES125	SITE LIGHTNING PROTECTION PLAN - AREA B	A-301	AAR BUILDING CROSS & LONGITUDINAL SECTION	SF501	BLEACHER ENCLOSURE FRAMING DETAILS
ES126	SITE LIGHTNING PROTECTION PLAN - AREA C	A-302	AAR WALL SECTIONS	A-101	BLEACHER ENCLOSURE FLOOR PLAN
ES502	SITE TELECOMMUNICATIONS DETAILS	A-501	AAR ROOF DETAILS	A-102	BLEACHER ENCLOSURE ROOF PLAN
ES501	SITE POWER DETAILS	A-502	AAR CEILING DETAILS	A-201	BLEACHER ENCLOSURE ELEVATIONS
ES503	SITE LIGHTING CONTACTOR DIAGRAMS	A-503	AAR BUILDING INTERIOR DETAILS	A-301	BLEACHER ENCLOSURE BUILDING SECTIONS
ES504	LIGHTING POLE DETAILS	A-601	AAR SCHEDULES	A-501	BLEACHER ENCLOSURE ROOF DETAILS
ES505	CATENARY POLE DETAILS	A-602	AAR DOOR AND WINDOW DETAILS	A-801	BLEACHER ENCLOSURE LIFE SAFETY ANALYSIS
	<b>VOLUME 2 - BUILDING</b>	A-701	AAR AIR BARRIER BOUNDARY FLOOR PLAN & BUILDING SECTIONS	E-001	BLEACHER ENCLOSURE LEGEND AND NOTES
G-001	COVER SHEET	A-702	AAR BUILDING AIR BARRIER DETAILS	EL101	BLEACHER ENCLOSURE LIGHTING PLAN
GI001	INDEX OF DRAWINGS	A-801	AAR BUILDING LIFE SAFETY PLAN	EL501	BLEACHER ENCLOSURE LIGHT FIXTURE SCHEDULE & DETAILS
GI002	INDEX OF DRAWINGS	IN101	AAR FURNITURE PLAN	EL601	BLEACHER ENCLOSURE LIGHTING CONTROL SCHEDULES AND DETAILS
GI003	INDEX OF DRAWINGS	IN601	AAR BUILDING ROOM FINISH SCHEDULE & FINISH LEGEND	EL602	BLEACHER ENCLOSURE LIGHTING CONTACTOR DIAGRAMS
GI004	GENERAL NOTES, ABBREVIATIONS	M-001	AAR BUILDING HVAC LEGEND	EP101	BLEACHER ENCLOSURE POWER PLAN
		MH101	AAR BUILDING HVAC FLOOR PLAN	EP601	BLEACHER ENCLOSURE POWER RISER DIAGRAM



US Army Corps of Engineers®

DATE	MARK	DESCRIPTION

DESIGNED BY: J. HARRIS	CHECKED BY: J. MCCLERAN	SUBMITTED BY: J. DEACON	FILE NAME: ANSID
ISSUE DATE: NOVEMBER 2023	PROJECT NO. / CONTRACT NO. / DRAWING NO. / SHEET NO. / DATE: W81P44-302	CATEGORY CODE: 178-65-01	
U.S. ARMY CORPS OF ENGINEERS SAVANNAH DISTRICT 100 W. OGLETHORPE AVE SAVANNAH, GA 31401			

FORT LIBERTY, NORTH CAROLINA AUTOMATED MULTIPURPOSE TRAINING RANGE (MPTR) FY23, PN 96182 VOLUME 3 & 4 - DOWNRANGE	INDEX OF DRAWINGS
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SHEET ID  
**GI001**

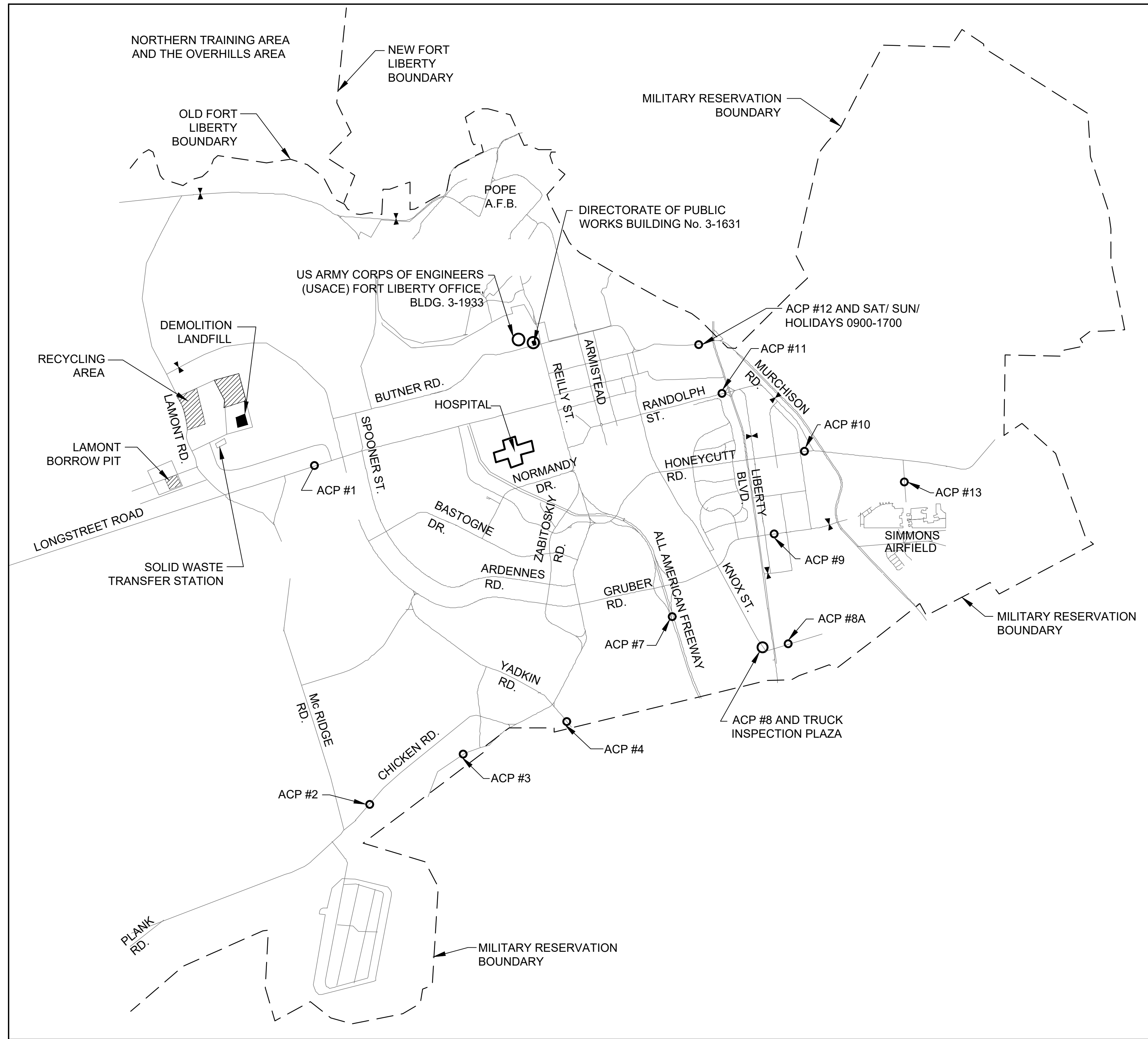
READY TO ADVERTISE (RTA)











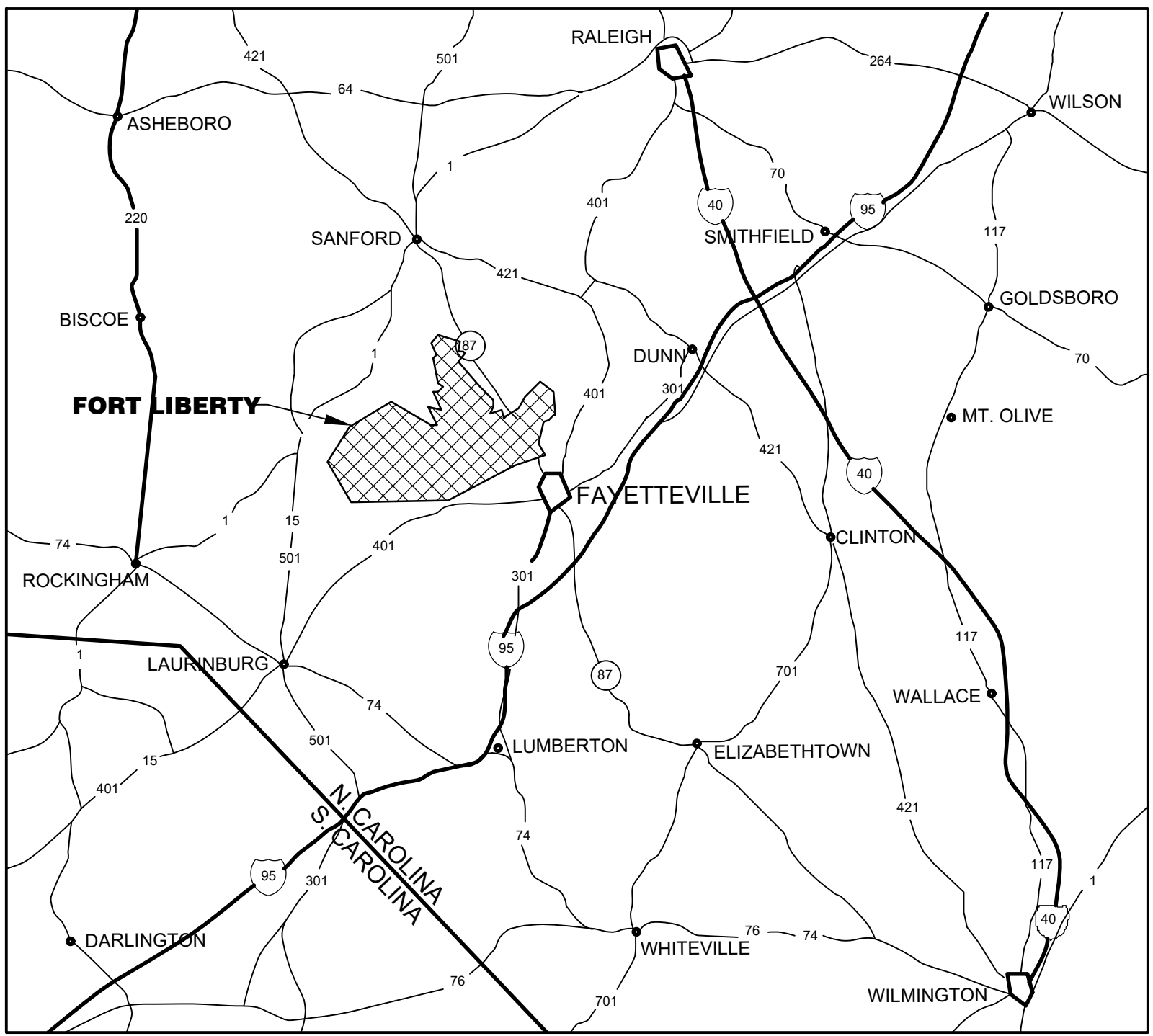
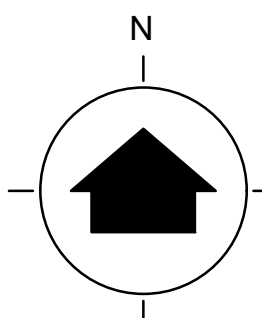
**FORT LIBERTY CANTONMENT**

N.T.S.

**POST ACCESS CONTROL POINT (ACP) PLAN**

- ACP NUMBERS 1, 4, 7, 8, 11, & 13 OPERATES 24 HRS/ 7 DAYS A WEEK = ALL PROCESSING
- ACP NUMBERS 3, 9, & 10 OPERATES 24 HRS/ 7 DAYS A WEEK = DECALS ONLY
- ACP NUMBERS 2, 8A, & 12 OPERATES 16 HRS/ 5 DAYS A WEEK = DECALS ONLY
- TRUCK PLAZA OPERATES 24 HRS/ 7 DAYS A WEEK = TRUCK INSPECTION PLAZA
- ▲ = ROAD CLOSED WITH GATES OR BARRIERS

ALL VEHICLES ARE SUBJECT TO SEARCH, REGARDLESS OF WHETHER THEY HAVE A DECAL, HAVE A TEMPORARY PASS, OR HAVE NEITHER. ALL CONTRACTORS COMMERCIAL OR PRIVATELY OWNED VEHICLES REQUIRE VEHICLE REGISTRATION.

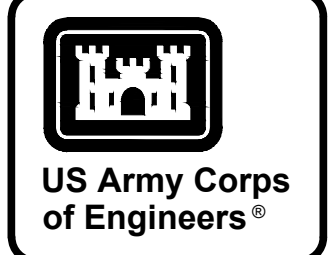
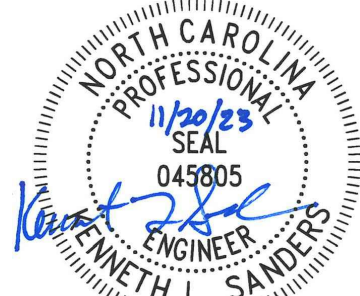


**VICINITY MAP**

N.T.S.

**LANDFILL DISPOSAL REQUIREMENTS**

1. THE FORT LIBERTY LAMONT CONSTRUCTION AND DEMOLITION (C&D) LANDFILL IS CLOSED AND WILL NOT BE ACCEPTING ANY C&D WASTE AND ASBESTOS WASTE.
2. ALL CONTRACTORS SHALL USE A STATE CERTIFIED C&D LANDFILL OR SUB TITLE "D" LANDFILL OFF FORT LIBERTY FOR THE DISPOSAL OF C&D WASTE, ASBESTOS WASTE, CREOSOTE WOOD (EX: TELEPHONE POLES, BRIDGES) AND ANY CONCRETE OR SOIL REMOVED FROM A CONSTRUCTION SITE ON FORT LIBERTY.
3. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN DATA OF ALL WASTE DISPOSED AND MATERIALS RECYCLED OFF FORT LIBERTY. THE DEPARTMENT OF THE ARMY (DA) AND THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY (NC DEQ) REQUIRES MONTHLY AND ANNUAL REPORTING OF ALL MATERIALS (WASTE AND RECYCLABLES) MANAGED BY FORT LIBERTY. THE FORT LIBERTY ENVIRONMENTAL COMPLIANCE BRANCH, SOLID WASTE/RECYCLING OFFICE IS RESPONSIBLE FOR COMPILING DATA INTO MONTHLY DIRECTORATE REPORTS TO BE CONSOLIDATED INTO REPORTS FOR THE DA AND THE NC DEQ. A PROVIDED FORM FROM THE SOLID WASTE/RECYCLING OFFICE OR A CONTRACTOR FORM SHALL BE FILLED OUT WITH THE TYPE OF WASTE OR RECYCLED MATERIAL, THE WEIGHT OF THE WASTE/MATERIAL (TONS OR POUNDS) AND THE FACILITY THE WASTE OR RECYCLABLES WERE DELIVERED. THIS INFORMATION IS REQUIRED TO BE SENT TO THE FORT LIBERTY SOLID WASTE/RECYCLING OFFICE BY THE SECOND FRIDAY OF EACH MONTH. EMAIL TO SHAWN C HARDY AT SHAWN.C.HARDY.CIV@ARMY.MIL OR FAX TO (910)396-4188, ATTN: SOLID WASTE OFFICE.
4. THE LAMONT LANDFILL FACILITY WILL ACCEPT RECYCLABLES ITEMS. 1) CONCRETE, BRICK, BLOCK AND ASPHALT - SHALL BE TESTED AND FREE OF ASBESTOS AND LEAD BASED PAINT TO BE RECYCLED - SHALL BE NO LARGER THAN 2' BY 2' PIECES OR EQUIVALENT - SHALL BE MINIMAL AMOUNT OF DIRT IN LOAD - SHALL HAVE NO REBAR PROTRUDING OUT OF THE CONCRETE. 2) TREES AND TREE LIMBS - SHALL BE CUT TO 6 FEET OR LESS IN LENGTH-THE LANDFILL NO LONGER EXCEPTS TREE STUMPS. - IF THE TREE HAS A LARGE DIAMETER (EXAMPLE 3 FT. DIA.) IT SHALL BE CUT TO LENGTHS OF 3 FEET OR LESS - WILL EXCEPT GROUND WOOD CHIPS 3) PALLETS - SERVICEABLE AND NON-SERVICEABLE PALLETS 4) SCRAP STEEL - NO ITEMS REQUIRING DEMILITARIZED ACCEPTED - NO ITEMS WITH LIQUIDS IN THEM 5) SCRAP ALUMINUM - NO ITEMS REQUIRING DEMILITARIZED ACCEPTED - NO ITEMS WITH LIQUIDS IN THEM 6) CARDBOARD TO BE RECYCLED CAN BE TAKEN TO THE FORT LIBERTY RECYCLING CENTER AT BLDG 3-1240, BUTNER AND REILLY ROAD - SHALL BE CLEAN OF PLASTICS, STYROFOAM, WOOD, METAL, TRASH, ETC. YOU CAN CONTACT YOUR GOVERNMENT REPRESENTATIVE OR THE SOLID WASTE/RECYCLING PROGRAM AT 910-366-4530, 910-396-2295 FOR ADDITIONAL GUIDANCE.
5. STATE LAW AND FORT LIBERTY REGULATIONS REQUIRES COVERING OF LOADS OF WASTE OR RECYCLABLES TO PREVENT LITTER.
6. ALL WASTE OR RECYCLABLE MATERIAL LOADS ARE SUBJECT TO BE INSPECTED OF THEIR CONTENTS WHILE BEING PRESENT ON FORT LIBERTY.
7. ALL RECYCLABLE MATERIALS GENERATED FROM A CONSTRUCTION OR DEMOLITION JOB IS PROPERTY OF THE GOVERNMENT UNLESS THE CONTRACT SPECIFIES THAT THE CONTRACT CAN OBTAIN THE MATERIALS. ITEMS SUCH AS HVAC UNITS (FREON REMOVED), AIR HANDLERS, PIPING, METALS BEAMS, MOTORS, VALVES, COPPER WIRE, ETC. THESE TYPES OF ITEMS SHALL BE TRANSPORTED TO THE DPW RECYCLING CENTER (BUTNER AND REILLY ROAD) OR THE RECYCLING AREA AT THE LAMONT LANDFILL FACILITY.



MARK	DESCRIPTION	DATE

DESIGNED BY: K. SANDETS B. JOHNSON CHECKED BY: B. BRADLEY SUBMITTED BY: B. BRADLEY SIZE: ANSID	U.S. ARMY CORPS OF ENGINEERS SAVANNAH DISTRICT 100 W. OGLETHORPE AVE SAVANNAH, GA 31401	ISSUE DATE: NOVEMBER 2023 CONTRACT NO.: W91P4L24L3002 CATEGORY CODE: 178-85-01 FILE NAME: 178-85-01
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FORT LIBERTY, NORTH CAROLINA  
 AUTOMATED MULTIPURPOSE TRAINING RANGE (MPTTR)  
 FY23, PN 96182  
 VOLUMES 3 & 4 - DOWNRANGE  
 FORT LIBERTY CANTONMENT AND VICINITY MAPS

SHEET ID  
**GI005**

























































































































































































































































































































**Boring Designation B-11**

<b>DRILLING LOG</b>		DIVISION South Atlantic	INSTALLATION Fort Bragg	SHEET OF 1 SHEETS
1. PROJECT Automated Multipurpose Training Range		9. COORDINATE SYSTEM State Plane - North Carolina	HORIZONTAL NAD83	VERTICAL NAVD88
2. HOLE NUMBER B-11		10. SIZE AND TYPE OF BIT 4.25 in. HSA		
3. DRILLING AGENCY USACE, Savannah District		11. MANUFACTURER'S DESIGNATION OF DRILL CME-750x		
4. NAME OF DRILLER Kyle Killebrew		12. TOTAL SAMPLES DISTURBED 6 UNDISTURBED 0		
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		13. TOTAL NUMBER CORE BOXES 0		
6. THICKNESS OF OVERBURDEN >15'		14. ELEVATION GROUND WATER See Remarks		
7. DEPTH DRILLED INTO ROCK 0'		15. DATE BORING STARTED 1/6/22 COMPLETED 1/6/22		
8. TOTAL DEPTH OF BORING 15'		16. ELEVATION TOP OF BORING 298.5'		
		17. TOTAL CORE RECOVERY FOR BORING N/A		
		18. SIGNATURE AND TITLE OF INSPECTOR Ken Diediker, Geologist		

ELEV	DEPTH	LEGEND	FIELD CLASSIFICATION OF MATERIALS (Description)	% REC	Sample No	REMARKS	Blows 0.5 ft	N-Value
297.5	1.0		Topsoil / Rootmat (approx. 8 to 12 inches).	73	S-1		1	4
297.0	1.5		SILTY SAND (SM), light reddish brown, moist, very loose, mostly fine to medium sand, little silt, trace clay.	100	S-2		6	32
294.0	4.5		CLAYEY SAND (SC), reddish brown, moist, medium dense to dense, mostly fine to medium sand, little clay, trace silt, iron oxide staining.	100	S-3		7	20
			LEAN CLAY (CL), light gray, dry, very stiff to hard, mostly clay, little silt, trace fine sand, iron oxide staining.	73	S-4		11	26
				80	S-5		8	32
283.5	15.0			73	S-6		3	18

BORING TERMINATED AT 15.0 ft

**NOTES:**  
 1. Soils visually classified in accordance with ASTM D2488.  
 2. N-Value: Total blows over last 1.0 foot of 1.5-foot driven interval, unless otherwise indicated, using a 1 3/8-inch ID splitspoon with 140-pound hammer falling 30 inches.  
 3. The CME-750x drilling rig utilizes an automatic trip hammer. The hammer efficiency correction is 1.6.  
 4. Component percentages: Mostly - 50-100%; Some - 30-45%; Little - 15-25%; Few - 5-10%; Trace - <5%.

**Water Level Data**  
 Reading Depth Notes  
 After drilling Not Encountered

SAS FORM 1836-A FEB 08 Boring Designation B-11 SHEET 1 of 1

**Boring Designation B-12**

<b>DRILLING LOG</b>		DIVISION South Atlantic	INSTALLATION Fort Bragg	SHEET OF 1 SHEETS
1. PROJECT Automated Multipurpose Training Range		9. COORDINATE SYSTEM State Plane - North Carolina	HORIZONTAL NAD83	VERTICAL NAVD88
2. HOLE NUMBER B-12		10. SIZE AND TYPE OF BIT 4.25 in. HSA		
3. DRILLING AGENCY USACE, Savannah District		11. MANUFACTURER'S DESIGNATION OF DRILL CME-750x		
4. NAME OF DRILLER Kyle Killebrew		12. TOTAL SAMPLES DISTURBED 5 UNDISTURBED 0		
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		13. TOTAL NUMBER CORE BOXES 0		
6. THICKNESS OF OVERBURDEN >10'		14. ELEVATION GROUND WATER See Remarks		
7. DEPTH DRILLED INTO ROCK 0'		15. DATE BORING STARTED 1/6/22 COMPLETED 1/6/22		
8. TOTAL DEPTH OF BORING 10'		16. ELEVATION TOP OF BORING 298.5'		
		17. TOTAL CORE RECOVERY FOR BORING N/A		
		18. SIGNATURE AND TITLE OF INSPECTOR Ken Diediker, Geologist		

ELEV	DEPTH	LEGEND	FIELD CLASSIFICATION OF MATERIALS (Description)	% REC	Sample No	REMARKS	Blows 0.5 ft	N-Value
295.0	3.5		POORLY GRADED SAND WITH SILT (SP-SM), light brown, moist, medium dense, mostly fine to medium sand, few silt, trace clay, road base.	80	S-1		12	22
				73	S-2		5	13
			CLAYEY SAND (SC), reddish brown to light reddish brown, moist, medium dense, mostly fine sand, some clay, trace silt, iron oxide staining.	87	S-3		8	15
				93	S-4		7	17
288.5	10.0			87	S-5		4	13

BORING TERMINATED AT 10.0 ft

**NOTES:**  
 1. Soils visually classified in accordance with ASTM D2488.  
 2. N-Value: Total blows over last 1.0 foot of 1.5-foot driven interval, unless otherwise indicated, using a 1 3/8-inch ID splitspoon with 140-pound hammer falling 30 inches.  
 3. The CME-750x drilling rig utilizes an automatic trip hammer. The hammer efficiency correction is 1.6.  
 4. Component percentages: Mostly - 50-100%; Some - 30-45%; Little - 15-25%; Few - 5-10%; Trace - <5%.

**Water Level Data**  
 Reading Depth Notes  
 After drilling Not Encountered

SAS FORM 1836-A FEB 08 Boring Designation B-12 SHEET 1 of 1

**Boring Designation B-13**

<b>DRILLING LOG</b>		DIVISION South Atlantic	INSTALLATION Fort Bragg	SHEET OF 1 SHEETS
1. PROJECT Automated Multipurpose Training Range		9. COORDINATE SYSTEM State Plane - North Carolina	HORIZONTAL NAD83	VERTICAL NAVD88
2. HOLE NUMBER B-13		10. SIZE AND TYPE OF BIT 4.25 in. HSA		
3. DRILLING AGENCY USACE, Savannah District		11. MANUFACTURER'S DESIGNATION OF DRILL CME-750x		
4. NAME OF DRILLER Kyle Killebrew		12. TOTAL SAMPLES DISTURBED 5 UNDISTURBED 0		
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		13. TOTAL NUMBER CORE BOXES 0		
6. THICKNESS OF OVERBURDEN >10'		14. ELEVATION GROUND WATER See Remarks		
7. DEPTH DRILLED INTO ROCK 0'		15. DATE BORING STARTED 1/6/22 COMPLETED 1/6/22		
8. TOTAL DEPTH OF BORING 10'		16. ELEVATION TOP OF BORING 306.5'		
		17. TOTAL CORE RECOVERY FOR BORING N/A		
		18. SIGNATURE AND TITLE OF INSPECTOR Ken Diediker, Geologist		

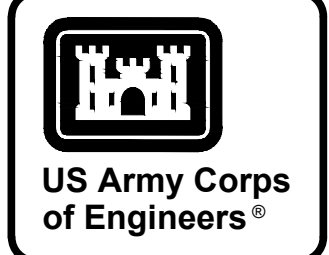
ELEV	DEPTH	LEGEND	FIELD CLASSIFICATION OF MATERIALS (Description)	% REC	Sample No	REMARKS	Blows 0.5 ft	N-Value
302.5	4.0		POORLY GRADED SAND WITH SILT (SP-SM), light brown to brown, moist, loose, mostly fine to medium sand, few silt, trace clay.	87	S-1		2	6
				93	S-2		2	6
			POORLY GRADED SAND WITH CLAY (SP-SC), reddish brown, moist, medium dense, mostly fine to medium sand, few clay, trace silt, iron oxide staining.	93	S-3		3	20
301.0	5.5		LEAN CLAY (CL), light gray, dry, very stiff, mostly clay, little silt, trace fine sand, iron oxide staining.	73	S-4		5	21
				87	S-5		5	27

BORING TERMINATED AT 10.0 ft

**NOTES:**  
 1. Soils visually classified in accordance with ASTM D2488.  
 2. N-Value: Total blows over last 1.0 foot of 1.5-foot driven interval, unless otherwise indicated, using a 1 3/8-inch ID splitspoon with 140-pound hammer falling 30 inches.  
 3. The CME-750x drilling rig utilizes an automatic trip hammer. The hammer efficiency correction is 1.6.  
 4. Component percentages: Mostly - 50-100%; Some - 30-45%; Little - 15-25%; Few - 5-10%; Trace - <5%.

**Water Level Data**  
 Reading Depth Notes  
 After drilling Not Encountered

SAS FORM 1836-A FEB 08 Boring Designation B-13 SHEET 1 of 1



DATE	DESCRIPTION	MARK

DESIGNED BY: K. SANDERS  
 CHECKED BY: B. JOHNSON  
 SUBMITTED BY: B. BRADLEY  
 FILE NAME: 178-65-01

ISSUE DATE: NOVEMBER 2023  
 CONTRACT NO.: W9133L24B3002  
 CATEGORY CODE: 178-65-01

U.S. ARMY CORPS OF ENGINEERS  
 SAVANNAH DISTRICT  
 100 W. OGLETHORPE AVE  
 SAVANNAH, GA 31401

POLY, INC.  
 1935 HEADLAND AVENUE  
 DOTHAN, AL 36503  
 WWW.POLY-INC.COM/3347-99-4700

FORT LIBERTY, NORTH CAROLINA  
 AUTOMATED MULTIPURPOSE TRAINING RANGE (MPTTR)  
 FY23, PN 96182  
 VOLUMES 3 & 4 - DOWNRANGE

SOIL BORING LOGS

SHEET ID  
**B-304**

**NOTES:**  
 1. SEE SHEET B-001 FOR SOIL CLASSIFICATION CHART AND NOTES.











**Boring Designation B-20**

<b>DRILLING LOG</b>		DIVISION South Atlantic	INSTALLATION Fort Bragg	SHEET OF 1 SHEETS
1. PROJECT Automated Multipurpose Training Range		9. COORDINATE SYSTEM State Plane - North Carolina		VERTICAL NAVD88
2. HOLE NUMBER B-20		10. SIZE AND TYPE OF BIT 4.25 in. HSA		11. MANUFACTURER'S DESIGNATION OF DRILL CME-750x
3. DRILLING AGENCY USACE, Savannah District		12. TOTAL SAMPLES DISTURBED 8		UNDISTURBED 0
4. NAME OF DRILLER Ed Ratliff		13. TOTAL NUMBER CORE BOXES 0		14. ELEVATION GROUND WATER See Remarks
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		DEG FROM VERTICAL	BEARING	15. DATE BORING STARTED 1/12/22
6. THICKNESS OF OVERBURDEN >25'		16. ELEVATION TOP OF BORING 309.5'		17. TOTAL CORE RECOVERY FOR BORING N/A
7. DEPTH DRILLED INTO ROCK 0'		18. SIGNATURE AND TITLE OF INSPECTOR Tyler Castellaw, Geologist		
8. TOTAL DEPTH OF BORING 25'				

ELEV	DEPTH	LEGEND	FIELD CLASSIFICATION OF MATERIALS (Description)	% REC	Blows 0.5 ft	N-Value	REMARKS
308.0	0.5		Topsol / Rootmat (approx. 6 inches).	80	S-1		
			POORLY GRADED SAND WITH SILT (SP-SM), light brown to reddish brown, moist, very loose to loose, mostly fine to medium sand, few silt, trace clay.				
				33	S-2		
				93	S-3		
				93	S-4		
				100	S-5		
				100	S-6		
				100	S-7		
				100	S-8		

BORING TERMINATED AT 25.0 ft

**NOTES:**  
 1. Soils visually classified in accordance with ASTM D2488.  
 2. N-Value: Total blows over last 1.0 foot of 1.5-foot driven interval, unless otherwise indicated, using a 1 3/8-inch ID spiltspoon with 140-pound hammer falling 30 inches.  
 3. The CME-750x drilling rig utilizes an automatic trip hammer. The hammer efficiency correction is 1.6.  
 4. Component percentages: Mostly - 50-100%; Some - 30-45%; Little - 15-25%; Few - 5-10%; Trace - <5%.

**Water Level Data**  
 Reading Depth Notes  
 During drilling Not Encountered

SAS FORM 1836-A FEB 08 Boring Designation B-20 SHEET 1 of 1

**Boring Designation B-21**

<b>DRILLING LOG</b>		DIVISION South Atlantic	INSTALLATION Fort Bragg	SHEET OF 1 SHEETS
1. PROJECT Automated Multipurpose Training Range		9. COORDINATE SYSTEM State Plane - North Carolina		VERTICAL NAVD88
2. HOLE NUMBER B-21		10. SIZE AND TYPE OF BIT 4.25 in. HSA		11. MANUFACTURER'S DESIGNATION OF DRILL CME-750x
3. DRILLING AGENCY USACE, Savannah District		12. TOTAL SAMPLES DISTURBED 6		UNDISTURBED 0
4. NAME OF DRILLER Ed Ratliff		13. TOTAL NUMBER CORE BOXES 0		14. ELEVATION GROUND WATER See Remarks
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		DEG FROM VERTICAL	BEARING	15. DATE BORING STARTED 1/11/22
6. THICKNESS OF OVERBURDEN >15'		16. ELEVATION TOP OF BORING 314.5'		17. TOTAL CORE RECOVERY FOR BORING N/A
7. DEPTH DRILLED INTO ROCK 0'		18. SIGNATURE AND TITLE OF INSPECTOR Tyler Castellaw, Geologist		
8. TOTAL DEPTH OF BORING 15'				

ELEV	DEPTH	LEGEND	FIELD CLASSIFICATION OF MATERIALS (Description)	% REC	Blows 0.5 ft	N-Value	REMARKS
314.0	0.5		Topsol / Rootmat (approx. 4 to 6 inches).	100	S-1		
			POORLY GRADED SAND WITH SILT (SP-SM), light reddish brown, moist, loose, mostly fine sand, few silt.				
				93	S-2		
				87	S-3		
				100	S-4		
				93	S-5		
				100	S-6		

BORING TERMINATED AT 15.0 ft

**NOTES:**  
 1. Soils visually classified in accordance with ASTM D2488.  
 2. N-Value: Total blows over last 1.0 foot of 1.5-foot driven interval, unless otherwise indicated, using a 1 3/8-inch ID spiltspoon with 140-pound hammer falling 30 inches.  
 3. The CME-750x drilling rig utilizes an automatic trip hammer. The hammer efficiency correction is 1.6.  
 4. Component percentages: Mostly - 50-100%; Some - 30-45%; Little - 15-25%; Few - 5-10%; Trace - <5%.

**Water Level Data**  
 Reading Depth Notes  
 During drilling Not Encountered

SAS FORM 1836-A FEB 08 Boring Designation B-21 SHEET 1 of 1

**Boring Designation B-22**

<b>DRILLING LOG</b>		DIVISION South Atlantic	INSTALLATION Fort Bragg	SHEET OF 1 SHEETS
1. PROJECT Automated Multipurpose Training Range		9. COORDINATE SYSTEM State Plane - North Carolina		VERTICAL NAVD88
2. HOLE NUMBER B-22		10. SIZE AND TYPE OF BIT 4.25 in. HSA		11. MANUFACTURER'S DESIGNATION OF DRILL CME-750x
3. DRILLING AGENCY USACE, Savannah District		12. TOTAL SAMPLES DISTURBED 8		UNDISTURBED 0
4. NAME OF DRILLER Ed Ratliff		13. TOTAL NUMBER CORE BOXES 0		14. ELEVATION GROUND WATER See Remarks
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		DEG FROM VERTICAL	BEARING	15. DATE BORING STARTED 1/11/22
6. THICKNESS OF OVERBURDEN >25'		16. ELEVATION TOP OF BORING 308'		17. TOTAL CORE RECOVERY FOR BORING N/A
7. DEPTH DRILLED INTO ROCK 0'		18. SIGNATURE AND TITLE OF INSPECTOR Tyler Castellaw, Geologist		
8. TOTAL DEPTH OF BORING 25'				

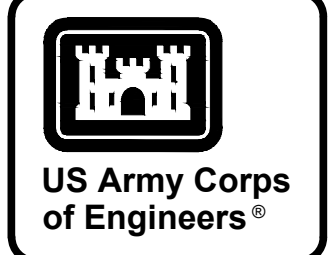
ELEV	DEPTH	LEGEND	FIELD CLASSIFICATION OF MATERIALS (Description)	% REC	Blows 0.5 ft	N-Value	REMARKS
307.5	0.5		Topsol / Rootmat (approx. 6 to 8 inches).	80	S-1		
			POORLY GRADED SAND (SP), brown to grayish brown, moist, very loose, mostly fine to medium sand, trace silt.				
				93	S-2		
				40	S-3		
				93	S-4		
				93	S-5		
				100	S-6		
				93	S-7		
				100	S-8		

BORING TERMINATED AT 25.0 ft

**NOTES:**  
 1. Soils visually classified in accordance with ASTM D2488.  
 2. N-Value: Total blows over last 1.0 foot of 1.5-foot driven interval, unless otherwise indicated, using a 1 3/8-inch ID spiltspoon with 140-pound hammer falling 30 inches.  
 3. The CME-750x drilling rig utilizes an automatic trip hammer. The hammer efficiency correction is 1.6.  
 4. Component percentages: Mostly - 50-100%; Some - 30-45%; Little - 15-25%; Few - 5-10%; Trace - <5%.

**Water Level Data**  
 Reading Depth Notes  
 During drilling 22 ft

SAS FORM 1836-A FEB 08 Boring Designation B-22 SHEET 1 of 1



DATE	DESCRIPTION	MARK

ISSUE DATE: NOVEMBER 2023  
 DESIGNED BY: K. SANDERS  
 U.S. ARMY CORPS OF ENGINEERS SAVANNAH DISTRICT  
 100 W. OGLETHORPE AVE SAVANNAH, GA 31401  
 CHECKED BY: B. BRADLEY  
 SUBMITTED BY: B. BRADLEY  
 CATEGORY CODE: 178-65-01  
 FILE NAME: ANSID

FORT LIBERTY, NORTH CAROLINA  
 AUTOMATED MULTIPURPOSE TRAINING RANGE (MPTTR)  
 FY23, PN 96182  
 VOLUMES 3 & 4 - DOWNRANGE  
 SOIL BORING LOGS

SHEET ID  
**B-307**

**NOTES:**  
 1. SEE SHEET B-001 FOR SOIL CLASSIFICATION CHART AND NOTES.

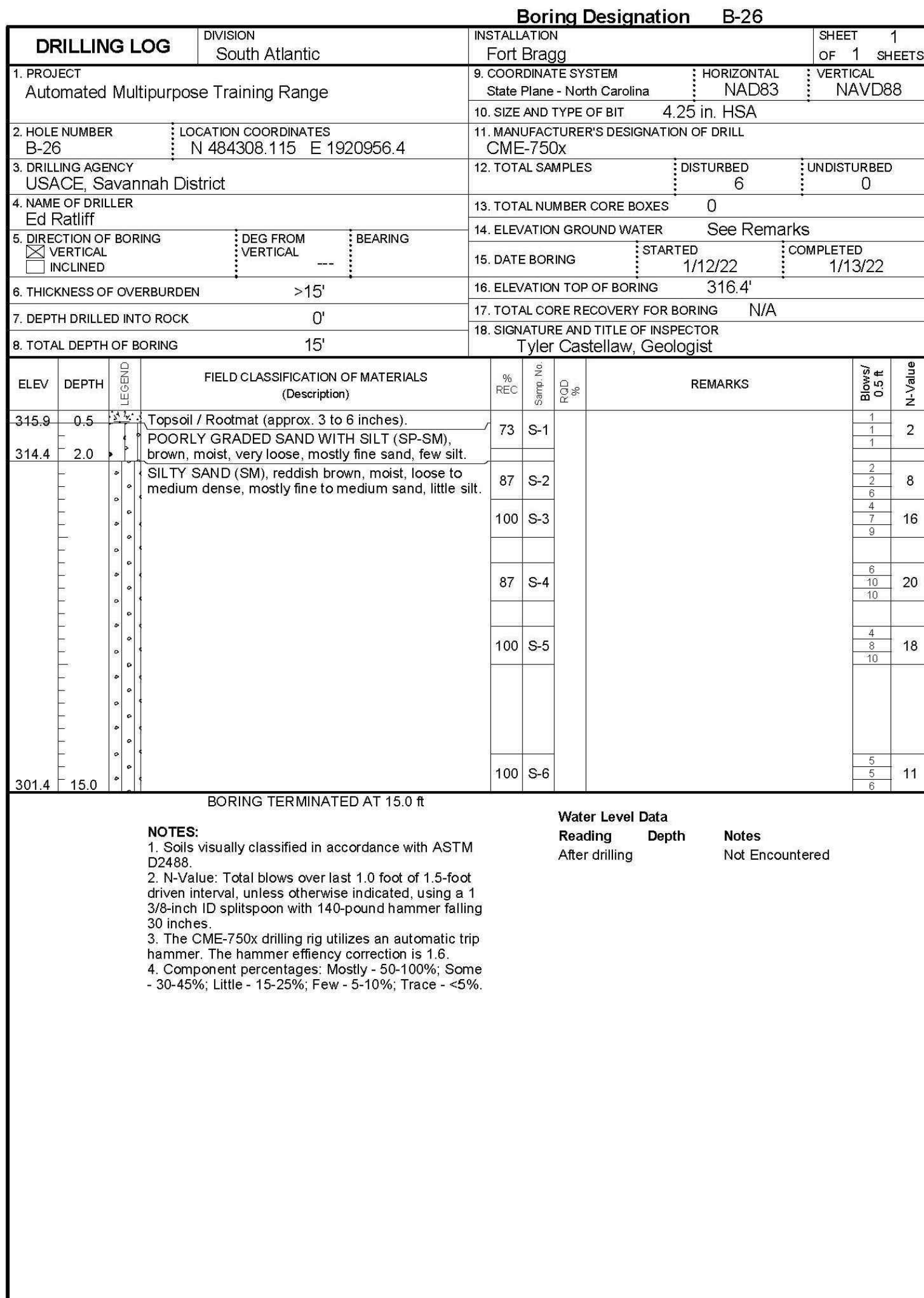
G:\CLEANSTUFF\1528115376 BRAGGS MPTTR\WIP07\_RTA\_FINAL\_SUBMITTAL\03 GEOTECHNICAL\0300 BORING LOGS\BEB-307.DWG

READY TO ADVERTISE (RTA)

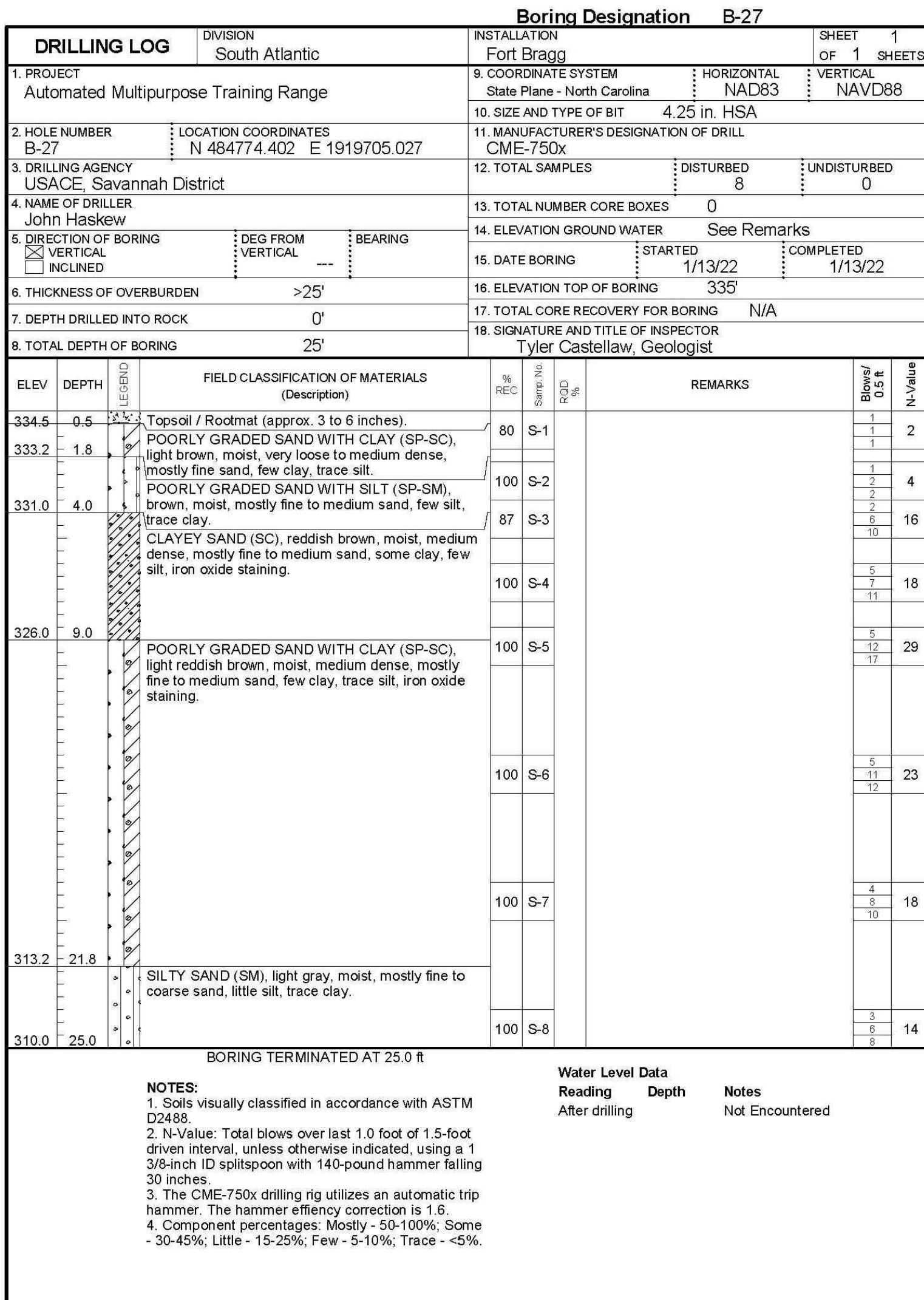




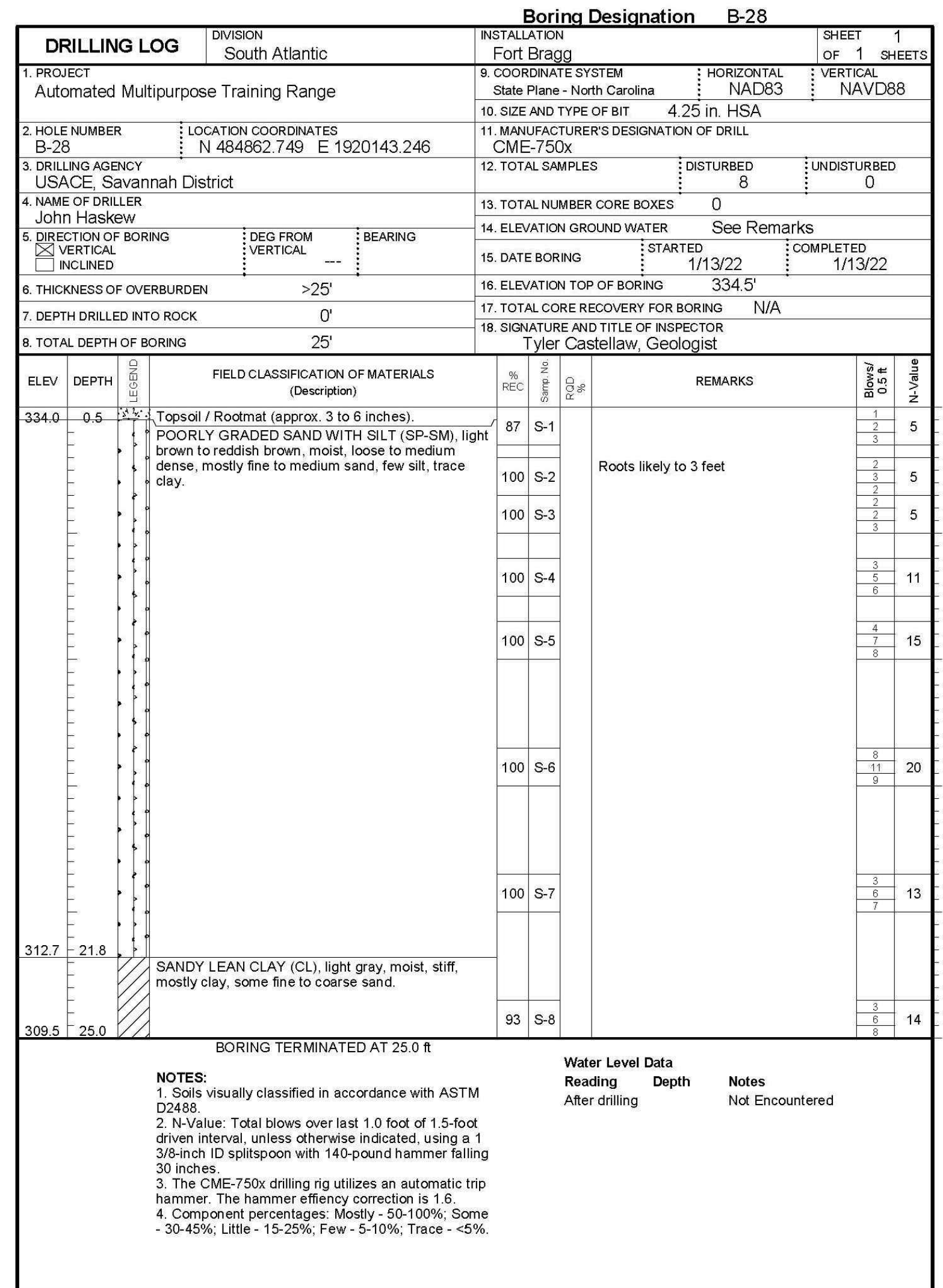




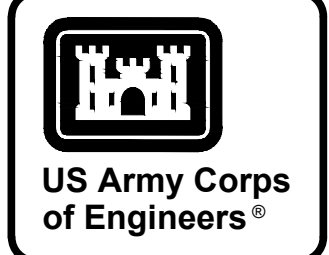
SAS FORM 1836-A FEB 08 Boring Designation B-26 SHEET 1 of 1



SAS FORM 1836-A FEB 08 Boring Designation B-27 SHEET 1 of 1



SAS FORM 1836-A FEB 08 Boring Designation B-28 SHEET 1 of 1



DATE	DESCRIPTION	MARK

ISSUE DATE: NOVEMBER 2003  
 DESIGNED BY: K. SANDERS  
 CHECKED BY: B. BRADLEY  
 SUBMITTED BY: B. BRADLEY  
 FILE NAME: ANSID

U.S. ARMY CORPS OF ENGINEERS  
 SAVANNAH DISTRICT  
 100 W. OGLETHORPE AVE  
 SAVANNAH, GA 31401

POLY, INC.  
 1935 HEADLAND AVENUE  
 DOTHAN, AL 36503  
 WWW.POLY-INC.COM / 334-799-4700

FORT LIBERTY, NORTH CAROLINA  
 AUTOMATED MULTIPURPOSE TRAINING RANGE (MPTTR)  
 FY23, PN 96182  
 VOLUMES 3 & 4 - DOWNRANGE

SOIL BORING LOGS

SHEET ID  
**B-309**

NOTES:  
 1. SEE SHEET B-001 FOR SOIL CLASSIFICATION CHART AND NOTES.

G:\CLEANSTUFF-1528115376 BRAGGS MPTTR\WIP07\_RTA\_FINAL\_SUBMIT\103\GEO\TECHNICAL\300 BORING LOGS\BEB-309.DWG

READY TO ADVERTISE (RTA)







**Boring Designation B-32**

<b>DRILLING LOG</b>		DIVISION South Atlantic	INSTALLATION Fort Bragg	SHEET OF 1 SHEETS
1. PROJECT Automated Multipurpose Training Range		9. COORDINATE SYSTEM State Plane - North Carolina	HORIZONTAL NAD83	VERTICAL NAVD88
2. HOLE NUMBER B-32		10. SIZE AND TYPE OF BIT 4.25 in. HSA		
3. DRILLING AGENCY USACE, Savannah District		11. MANUFACTURER'S DESIGNATION OF DRILL CME-750x		
4. NAME OF DRILLER John Haskew		12. TOTAL SAMPLES DISTURBED 8 UNDISTURBED 0		
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		13. TOTAL NUMBER CORE BOXES 0		
6. THICKNESS OF OVERBURDEN >25'		14. ELEVATION GROUND WATER See Remarks		
7. DEPTH DRILLED INTO ROCK 0'		15. DATE BORING STARTED 1/14/22 COMPLETED 1/14/22		
8. TOTAL DEPTH OF BORING 25'		16. ELEVATION TOP OF BORING 320'		
		17. TOTAL CORE RECOVERY FOR BORING N/A		
		18. SIGNATURE AND TITLE OF INSPECTOR Tyler Castellaw, Geologist		

ELEV	DEPTH	LEGEND	FIELD CLASSIFICATION OF MATERIALS (Description)	% REC	Sample No	REMARKS	Blows 0.5 ft	N-Value	
349.5	0.5		Topsoil / Rootmat (approx. 6 to 8 inches).				1	3	
			POORLY GRADED SAND WITH SILT (SP-SM), light reddish brown, moist, very loose, mostly fine to medium sand, few silt, trace clay.		93 S-1		1	3	
					93 S-2		1	3	
					100 S-3		2	3	
314.5	5.5		CLAYEY SAND (SC), reddish brown, moist, medium dense, mostly fine to coarse sand, little clay, few silt.		80 S-4		3	21	
					100 S-5		5	26	
					100 S-6		12	24	
303.2	16.8		POORLY GRADED SAND WITH SILT (SP-SM), light reddish brown, moist, loose, mostly fine sand, few silt, trace clay.		100 S-7		4	8	
298.2	21.8		POORLY GRADED SAND WITH SILT (SP-SM), light gray, moist, medium dense, mostly fine to medium sand, few silt, iron oxide staining.		100 S-8		2	11	
295.0	25.0		BORING TERMINATED AT 25.0 ft						

**NOTES:**

- Soils visually classified in accordance with ASTM D2486.
- N-Value: Total blows over last 1.0 foot of 1.5-foot driven interval, unless otherwise indicated, using a 1 3/8-inch ID spiltspoon with 140-pound hammer falling 30 inches.
- The CME-750x drilling rig utilizes an automatic trip hammer. The hammer efficiency correction is 1.6.
- Component percentages: Mostly - 50-100%; Some - 30-45%; Little - 15-25%; Few - 5-10%; Trace - <5%.

**Water Level Data**

Reading	Depth	Notes
		Not Encountered

SAS FORM 1836-A FEB 08 Boring Designation B-32 SHEET 1 of 1

**Boring Designation B-33**

<b>DRILLING LOG</b>		DIVISION South Atlantic	INSTALLATION Fort Bragg	SHEET OF 1 SHEETS
1. PROJECT Automated Multipurpose Training Range		9. COORDINATE SYSTEM State Plane - North Carolina	HORIZONTAL NAD83	VERTICAL NAVD88
2. HOLE NUMBER B-33		10. SIZE AND TYPE OF BIT 4.25 in. HSA		
3. DRILLING AGENCY USACE, Savannah District		11. MANUFACTURER'S DESIGNATION OF DRILL CME-750x		
4. NAME OF DRILLER John Haskew		12. TOTAL SAMPLES DISTURBED 8 UNDISTURBED 0		
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		13. TOTAL NUMBER CORE BOXES 0		
6. THICKNESS OF OVERBURDEN >25'		14. ELEVATION GROUND WATER See Remarks		
7. DEPTH DRILLED INTO ROCK 0'		15. DATE BORING STARTED 1/14/22 COMPLETED 1/14/22		
8. TOTAL DEPTH OF BORING 25'		16. ELEVATION TOP OF BORING 317.5'		
		17. TOTAL CORE RECOVERY FOR BORING N/A		
		18. SIGNATURE AND TITLE OF INSPECTOR Tyler Castellaw, Geologist		

ELEV	DEPTH	LEGEND	FIELD CLASSIFICATION OF MATERIALS (Description)	% REC	Sample No	REMARKS	Blows 0.5 ft	N-Value	
316.9	0.6		Topsoil / Rootmat (approx. 8 to 12 inches).		100 S-1		1	2	
			SILTY SAND (SM), light brown, moist, very loose, mostly fine to medium sand, little silt, trace clay.		100 S-2		1	3	
315.5	2.0		POORLY GRADED SAND (SP-SM), grayish brown, moist, loose, mostly fine sand, few silt, trace clay.		73 S-3		2	7	
					100 S-4		8	21	
					93 S-5		3	17	
305.7	11.8		CLAYEY SAND (SC), reddish brown, moist, medium dense, mostly fine to coarse sand, little clay, few silt, iron oxide staining.		100 S-6		4	8	
			Light gray.		100 S-7		1	7	
					100 S-8		3	12	
295.7	21.8		POORLY GRADED SAND WITH CLAY (SP-SC), light reddish brown, moist, loose, mostly fine sand, few clay, trace silt, iron oxide staining.				5	12	
292.5	25.0		BORING TERMINATED AT 25.0 ft						

**NOTES:**

- Soils visually classified in accordance with ASTM D2486.
- N-Value: Total blows over last 1.0 foot of 1.5-foot driven interval, unless otherwise indicated, using a 1 3/8-inch ID spiltspoon with 140-pound hammer falling 30 inches.
- The CME-750x drilling rig utilizes an automatic trip hammer. The hammer efficiency correction is 1.6.
- Component percentages: Mostly - 50-100%; Some - 30-45%; Little - 15-25%; Few - 5-10%; Trace - <5%.

**Water Level Data**

Reading	Depth	Notes
		Not Encountered

SAS FORM 1836-A FEB 08 Boring Designation B-33 SHEET 1 of 1

**Boring Designation B-34**

<b>DRILLING LOG</b>		DIVISION South Atlantic	INSTALLATION Fort Bragg	SHEET OF 1 SHEETS
1. PROJECT Automated Multipurpose Training Range		9. COORDINATE SYSTEM State Plane - North Carolina	HORIZONTAL NAD83	VERTICAL NAVD88
2. HOLE NUMBER B-34		10. SIZE AND TYPE OF BIT 4.25 in. HSA		
3. DRILLING AGENCY USACE, Savannah District		11. MANUFACTURER'S DESIGNATION OF DRILL CME-750x		
4. NAME OF DRILLER John Haskew		12. TOTAL SAMPLES DISTURBED 8 UNDISTURBED 0		
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		13. TOTAL NUMBER CORE BOXES 0		
6. THICKNESS OF OVERBURDEN >25'		14. ELEVATION GROUND WATER See Remarks		
7. DEPTH DRILLED INTO ROCK 0'		15. DATE BORING STARTED 1/17/22 COMPLETED 1/17/22		
8. TOTAL DEPTH OF BORING 25'		16. ELEVATION TOP OF BORING 345'		
		17. TOTAL CORE RECOVERY FOR BORING N/A		
		18. SIGNATURE AND TITLE OF INSPECTOR Tyler Castellaw, Geologist		

ELEV	DEPTH	LEGEND	FIELD CLASSIFICATION OF MATERIALS (Description)	% REC	Sample No	REMARKS	Blows 0.5 ft	N-Value	
344.5	0.5		Topsoil / Rootmat (approx. 6 to 8 inches).		87 S-1		1	3	
			POORLY GRADED SAND (SP), light grayish brown, moist, very loose, mostly fine sand, trace silt, trace clay.		93 S-2		2	8	
343.0	2.0		POORLY GRADED SAND WITH CLAY (SP-SC), light brown and reddish brown, moist, medium dense, mostly fine sand, few clay, iron oxide staining.		73 S-3		2	12	
			SILTY SAND (SM), reddish brown, moist, medium dense, mostly fine sand, little silt, few clay.		80 S-4		6	22	
					93 S-5		4	19	
					100 S-6		4	12	
328.2	16.8		POORLY GRADED SAND (SP), reddish brown, moist, loose, mostly fine to medium sand, trace clay, trace silt.		100 S-7		4	8	
323.2	21.8		POORLY GRADED SAND WITH CLAY (SP-SC), light gray, moist, medium dense, mostly fine to medium sand, few clay, trace silt, few fine gravel sized iron concretions.		100 S-8		8	23	
320.0	25.0		BORING TERMINATED AT 25.0 ft						

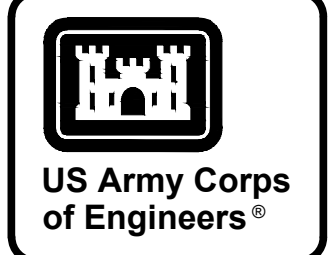
**NOTES:**

- Soils visually classified in accordance with ASTM D2486.
- N-Value: Total blows over last 1.0 foot of 1.5-foot driven interval, unless otherwise indicated, using a 1 3/8-inch ID spiltspoon with 140-pound hammer falling 30 inches.
- The CME-750x drilling rig utilizes an automatic trip hammer. The hammer efficiency correction is 1.6.
- Component percentages: Mostly - 50-100%; Some - 30-45%; Little - 15-25%; Few - 5-10%; Trace - <5%.

**Water Level Data**

Reading	Depth	Notes
		Not Encountered

SAS FORM 1836-A FEB 08 Boring Designation B-34 SHEET 1 of 1



DATE	DESCRIPTION	MARK

ISSUE DATE: NOVEMBER 2003  
 DESIGNED BY: K. SANDERS  
 CHECKED BY: B. BRADLEY  
 SUBMITTED BY: B. BRADLEY  
 FILE NAME: ANSID

U.S. ARMY CORPS OF ENGINEERS  
 SAVANNAH DISTRICT  
 100 W. OGLETHORPE AVE  
 SAVANNAH, GA 31401

POLY, INC.  
 1935 HEADLAND AVENUE  
 DOTHAN, AL 36503  
 WWW.POLY-INC.COM/3347-99-4700

FORT LIBERTY, NORTH CAROLINA  
 AUTOMATED MULTIPURPOSE TRAINING RANGE (MPTTR)  
 FY23, PN 96182  
 VOLUMES 3 & 4 - DOWNRANGE

SOIL BORING LOGS

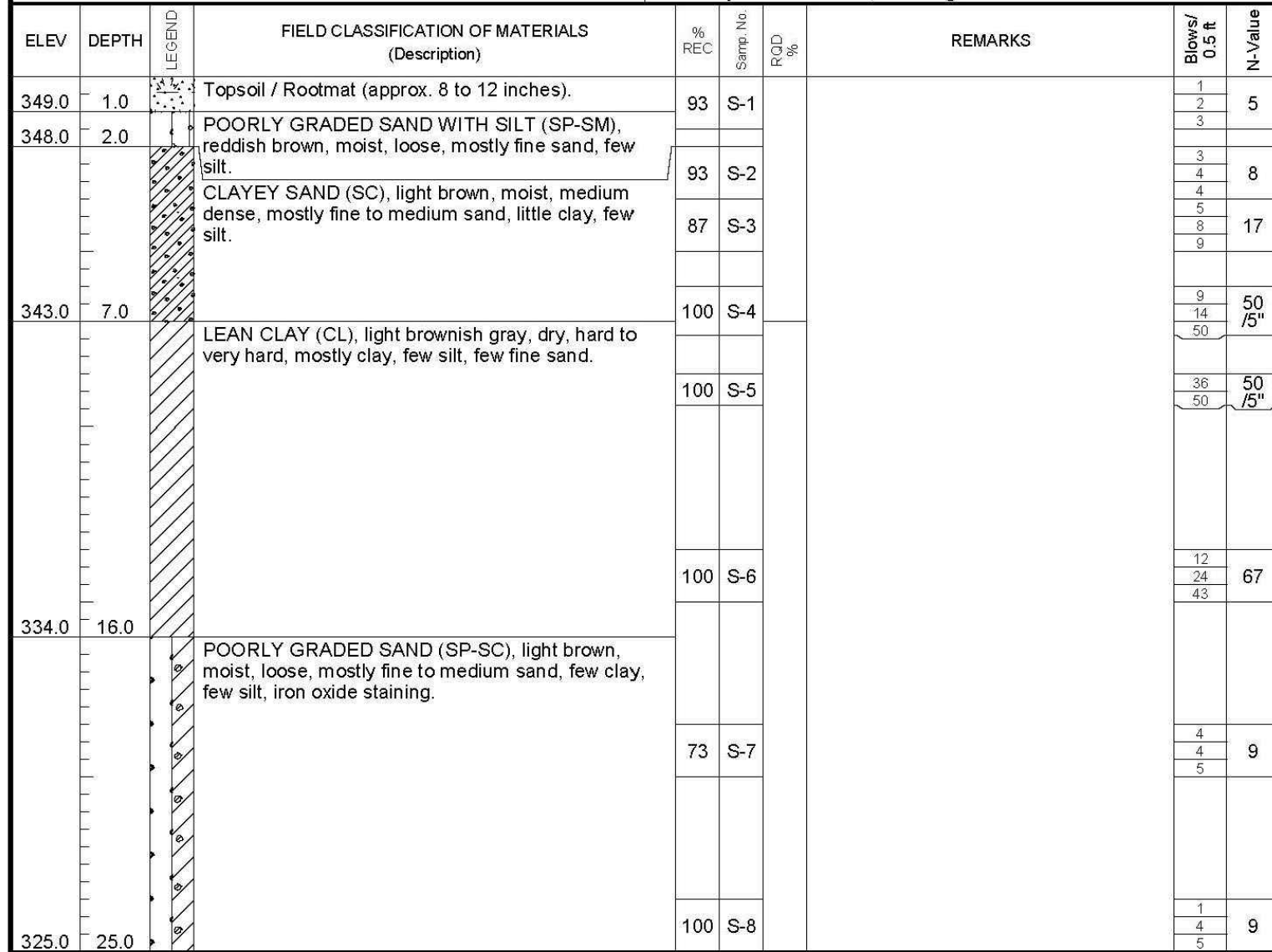
SHEET ID  
**B-311**

NOTES:  
 1. SEE SHEET B-001 FOR SOIL CLASSIFICATION CHART AND NOTES.



**Boring Designation B-35**

<b>DRILLING LOG</b>	DIVISION South Atlantic	INSTALLATION Fort Bragg	SHEET OF 1 SHEETS
1. PROJECT Automated Multipurpose Training Range	9. COORDINATE SYSTEM State Plane - North Carolina	HORIZONTAL NAD83	VERTICAL NAVD88
2. HOLE NUMBER B-35	10. SIZE AND TYPE OF BIT 4.25 in. HSA	11. MANUFACTURER'S DESIGNATION OF DRILL CME-750x	
3. DRILLING AGENCY USACE, Savannah District	12. TOTAL SAMPLES 8	DISTURBED 0	UNDISTURBED 0
4. NAME OF DRILLER John Haskew	13. TOTAL NUMBER CORE BOXES 0	14. ELEVATION GROUND WATER See Remarks	
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED	15. DATE BORING STARTED 1/17/22 COMPLETED 1/17/22	16. ELEVATION TOP OF BORING 350'	
6. THICKNESS OF OVERBURDEN >25'	17. TOTAL CORE RECOVERY FOR BORING N/A	18. SIGNATURE AND TITLE OF INSPECTOR Tyler Castellaw, Geologist	
7. DEPTH DRILLED INTO ROCK 0'			
8. TOTAL DEPTH OF BORING 25'			



BORING TERMINATED AT 25.0 ft

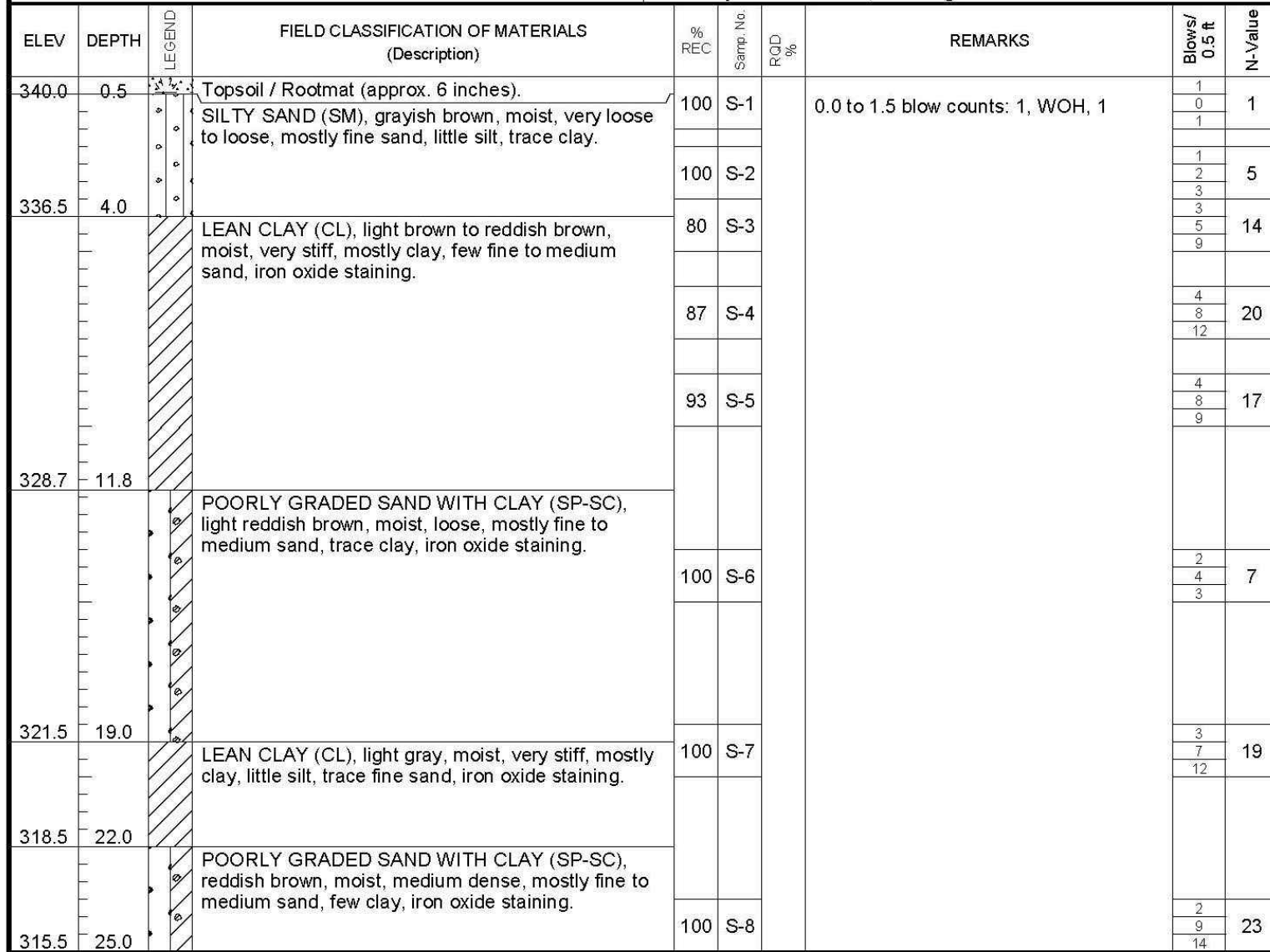
**NOTES:**  
 1. Soils visually classified in accordance with ASTM D2488.  
 2. N-Value: Total blows over last 1.0 foot of 1.5-foot driven interval, unless otherwise indicated, using a 1 3/8-inch ID spiltspoon with 140-pound hammer falling 30 inches.  
 3. The CME-750x drilling rig utilizes an automatic trip hammer. The hammer efficiency correction is 1.6.  
 4. Component percentages: Mostly - 50-100%; Some - 30-45%; Little - 15-25%; Few - 5-10%; Trace - <5%.

**Water Level Data**  
 Reading Depth Notes  
 After drilling Not Encountered

SAS FORM 1836-A FEB 08 Boring Designation B-35 SHEET 1 of 1

**Boring Designation B-36**

<b>DRILLING LOG</b>	DIVISION South Atlantic	INSTALLATION Fort Bragg	SHEET OF 1 SHEETS
1. PROJECT Automated Multipurpose Training Range	9. COORDINATE SYSTEM State Plane - North Carolina	HORIZONTAL NAD83	VERTICAL NAVD88
2. HOLE NUMBER B-36	10. SIZE AND TYPE OF BIT 4.25 in. HSA	11. MANUFACTURER'S DESIGNATION OF DRILL CME-750x	
3. DRILLING AGENCY USACE, Savannah District	12. TOTAL SAMPLES 8	DISTURBED 0	UNDISTURBED 0
4. NAME OF DRILLER John Haskew	13. TOTAL NUMBER CORE BOXES 0	14. ELEVATION GROUND WATER See Remarks	
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED	15. DATE BORING STARTED 1/18/22 COMPLETED 1/18/22	16. ELEVATION TOP OF BORING 340.5'	
6. THICKNESS OF OVERBURDEN >25'	17. TOTAL CORE RECOVERY FOR BORING N/A	18. SIGNATURE AND TITLE OF INSPECTOR Tyler Castellaw, Geologist	
7. DEPTH DRILLED INTO ROCK 0'			
8. TOTAL DEPTH OF BORING 25'			



BORING TERMINATED AT 25.0 ft

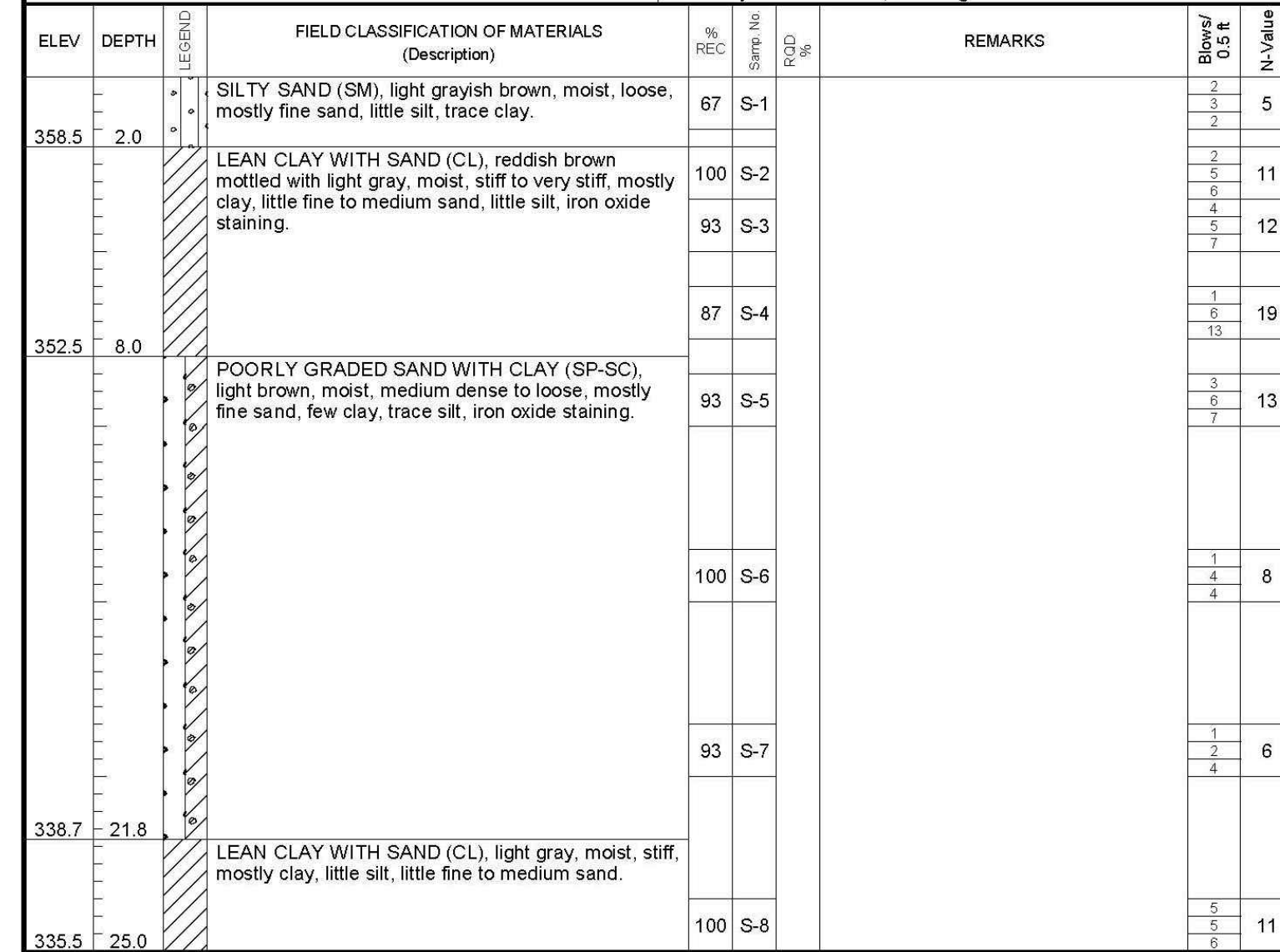
**NOTES:**  
 1. Soils visually classified in accordance with ASTM D2488.  
 2. N-Value: Total blows over last 1.0 foot of 1.5-foot driven interval, unless otherwise indicated, using a 1 3/8-inch ID spiltspoon with 140-pound hammer falling 30 inches.  
 3. The CME-750x drilling rig utilizes an automatic trip hammer. The hammer efficiency correction is 1.6.  
 4. Component percentages: Mostly - 50-100%; Some - 30-45%; Little - 15-25%; Few - 5-10%; Trace - <5%.  
 5. Weight of Hammer (WOH) - A weight of hammer event occurs during standard penetration testing when the hammer and drill string (drilling rod and split spoon sampler) are allowed to rest on the bottom of the borehole and they sink under their own weight.

**Water Level Data**  
 Reading Depth Notes  
 After drilling Not Encountered

SAS FORM 1836-A FEB 08 Boring Designation B-36 SHEET 1 of 1

**Boring Designation B-37**

<b>DRILLING LOG</b>	DIVISION South Atlantic	INSTALLATION Fort Bragg	SHEET OF 1 SHEETS
1. PROJECT Automated Multipurpose Training Range	9. COORDINATE SYSTEM State Plane - North Carolina	HORIZONTAL NAD83	VERTICAL NAVD88
2. HOLE NUMBER B-37	10. SIZE AND TYPE OF BIT 4.25 in. HSA	11. MANUFACTURER'S DESIGNATION OF DRILL CME-750x	
3. DRILLING AGENCY USACE, Savannah District	12. TOTAL SAMPLES 8	DISTURBED 0	UNDISTURBED 0
4. NAME OF DRILLER John Haskew	13. TOTAL NUMBER CORE BOXES 0	14. ELEVATION GROUND WATER See Remarks	
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED	15. DATE BORING STARTED 1/17/22 COMPLETED 1/17/22	16. ELEVATION TOP OF BORING 360.5'	
6. THICKNESS OF OVERBURDEN >25'	17. TOTAL CORE RECOVERY FOR BORING N/A	18. SIGNATURE AND TITLE OF INSPECTOR Tyler Castellaw, Geologist	
7. DEPTH DRILLED INTO ROCK 0'			
8. TOTAL DEPTH OF BORING 25'			

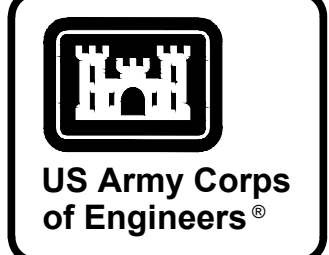


BORING TERMINATED AT 25.0 ft

**NOTES:**  
 1. Soils visually classified in accordance with ASTM D2488.  
 2. N-Value: Total blows over last 1.0 foot of 1.5-foot driven interval, unless otherwise indicated, using a 1 3/8-inch ID spiltspoon with 140-pound hammer falling 30 inches.  
 3. The CME-750x drilling rig utilizes an automatic trip hammer. The hammer efficiency correction is 1.6.  
 4. Component percentages: Mostly - 50-100%; Some - 30-45%; Little - 15-25%; Few - 5-10%; Trace - <5%.

**Water Level Data**  
 Reading Depth Notes  
 After drilling Not Encountered

SAS FORM 1836-A FEB 08 Boring Designation B-37 SHEET 1 of 1



DATE	DESCRIPTION	MARK

ISSUE DATE: NOVEMBER 2023  
 DESIGNED BY: K. SANDERS  
 CHECKED BY: B. BRADLEY  
 SUBMITTED BY: B. BRADLEY  
 FILE NAME: 178-65-01

U.S. ARMY CORPS OF ENGINEERS  
 SAVANNAH DISTRICT  
 100 W. OGLETHORPE AVE  
 SAVANNAH, GA 31401

POLY, INC.  
 1935 HEADLAND AVENUE  
 DOTHAN, AL 36503  
 WWW.POLY-INC.COM/3347-99-4700

FORT LIBERTY, NORTH CAROLINA  
 AUTOMATED MULTIPURPOSE TRAINING RANGE (MPTTR)  
 FY23, PN 96182  
 VOLUMES 3 & 4 - DOWNRANGE

SOIL BORING LOGS

SHEET ID  
**B-312**

**NOTES:**  
 1. SEE SHEET B-001 FOR SOIL CLASSIFICATION CHART AND NOTES.

READY TO ADVERTISE (RTA)

G:\CLEANSTUFF\1528115376 BRAGGS MPTTR\WIP07\_RTA\_FINAL\_SUBMIT\103\GEO\TECHNICAL\300 BORING LOGS\BEB-312.DWG







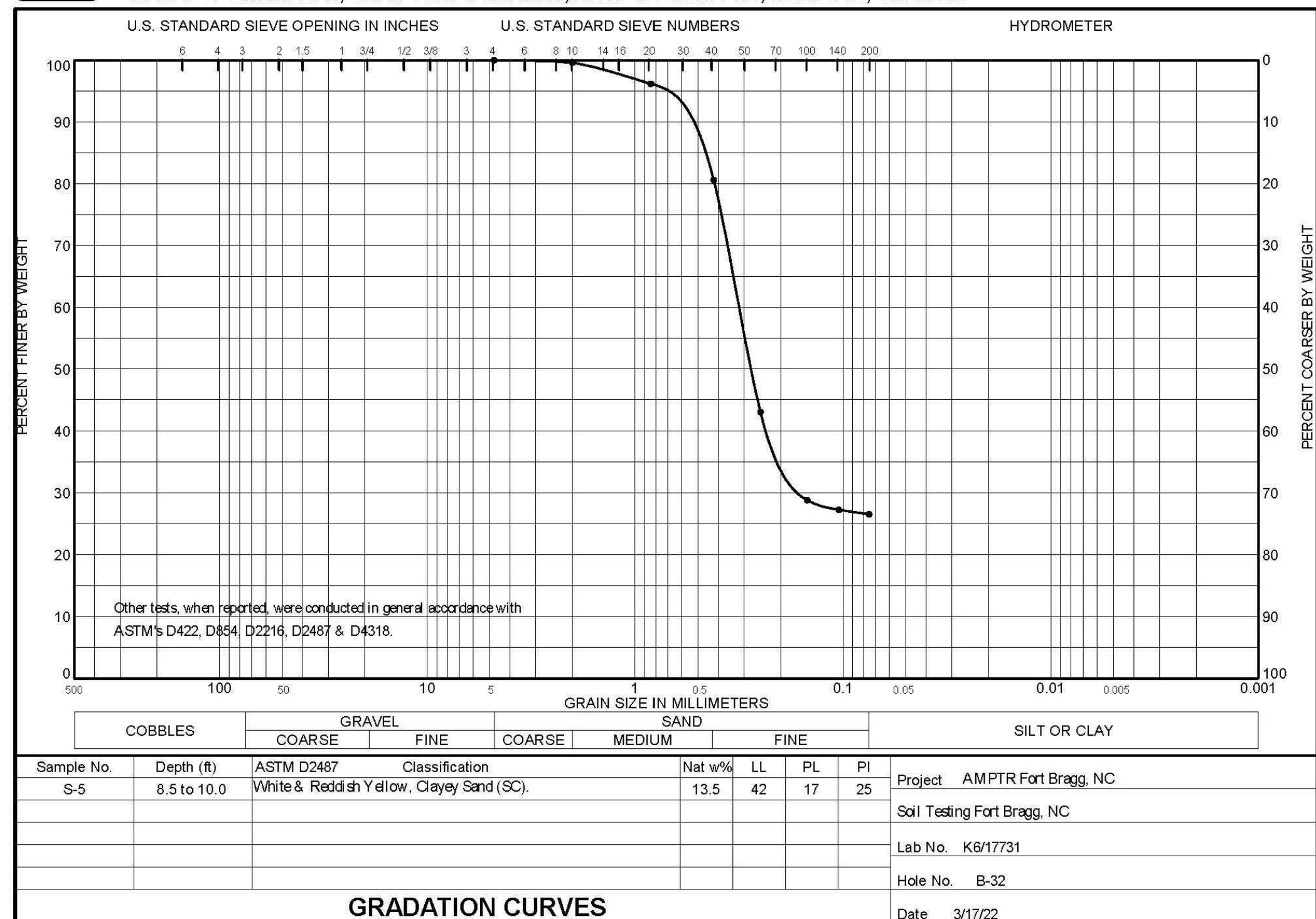






DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL AND MATERIALS UNIT  
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA. 30062

WORK ORDER:  
REQUISITION: W33SJG12959799











































































































































































































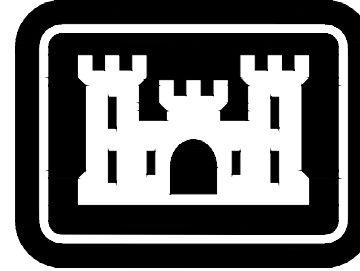










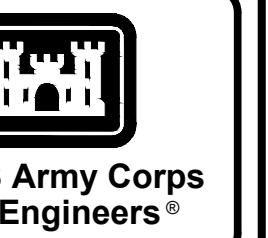


US Army Corps  
of Engineers  
Savannah District

PREPARED BY:



1935 HEADLAND AVE.  
DOTHAN, AL 36303  
334-793-4700  
WWW.POLY-INC.COM



US Army Corps  
of Engineers®

# FORT LIBERTY, NORTH CAROLINA AUTOMATED MULTIPURPOSE TRAINING RANGE (MPTR) FY23, PN 96182 EROSION & SEDIMENTATION CONTROL PLAN

NCDEQ PROJECT ID = \_\_\_\_\_  
PROJECT AREA = 702 ACRES  
DISTURBED AREA = 176 ACRES

**PHASE OF WORK:**

THIS E&SC PLAN ONLY COVERS WORK IN THE DOWNRANGE AREA WHICH INCLUDES BASELINE ROAD AND ALL AREAS NORTH. THE AREAS SOUTH OF THE BASELINE AND UTILITY INSTALLATION ALONG PLANK ROAD ARE DESIGNED BY USACE IN VOLUMES 1 AND 2 OF THESE CONTRACT PLANS.

Signature \_\_\_\_\_  
  
Kenneth L. Sanders  
Printed Name  
Project Engineer

Signature \_\_\_\_\_  
  
Printed Name  
USACE Project Engineer

Signature \_\_\_\_\_  
  
Printed Name  
DPW Project Manager

Signature \_\_\_\_\_  
  
Printed Name  
Environmental Compliance

Signature \_\_\_\_\_  
  
Printed Name  
Water Management Branch

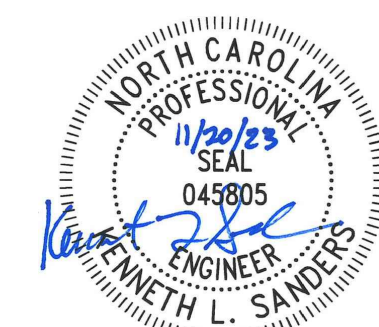
Professional Certification: I hereby certify that these documents were prepared and approved by me and that I am a dully licensed professional engineer under the laws of the State of North Carolina, License #045805 expiration date December 31, 2022.

**SEDIMENT AND EROSION CONTROL SHALL BE STRICLY ENFORCED.**

STATUS: RTA SUBMITTAL  
DATE: NOVEMBER 2023

SOLICITATION NO.: W912HN-24-B-3002  
CONTRACT NO.:  
ISSUE DATE: NOVEMBER 2023

ITEM	DESCRIPTION	MONTHS OF CONSTRUCTION ACTIVITY																							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	CONSTRUCTION EXIT	X																							
2	INITIAL PERIMETER BMPs	X	X																						
3	TEMPORARY SEDIMENT BASINS	X	X	X																					
4	ROCK FILTER DAMS	X	X	X	X																				
5	CLEARING AND GRUBBING	X	X	X	X	X																			
6	GRADING	X	X	X	X	X	X																		
7	STORM DRAINAGE IMPROVEMENTS	X	X	X	X	X	X	X																	
8	ELECTRICAL UTILITIES	X	X	X	X	X	X	X	X																
9	EROSION CONTROL MATTING INSTALLATION	X	X	X	X	X	X	X	X	X															
10	CHANNEL STABILIZATION INSTALLATION	X	X	X	X	X	X	X	X	X	X														
11	DISTURBED AREA STABILIZATION	X	X	X	X	X	X	X	X	X	X	X													
12	FINAL GRASSING AND REMOVAL OF TEMPORARY STRUCTURES	X	X	X	X	X	X	X	X	X	X	X	X												
13	MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES	X	X	X	X	X	X	X	X	X	X	X	X	X											



DESIGNED BY: K. SANDERS  
CHECKED BY: B. BRADLEY  
SUBMITTED BY: B. BRADLEY  
FILE NAME: ANSID

ISSUE DATE: NOVEMBER 2023  
CONTRACT NO.: W912HN-24-B-3002  
CATEGORY CODE: 178-65-01

U.S. ARMY CORPS OF ENGINEERS  
SAVANNAH DISTRICT  
100 W. OGLETHORPE AVE  
SAVANNAH, GA 31401

POLY, INC.  
1935 HEADLAND AVENUE  
DOTHAN, AL 36303  
WWW.POLY-INC.COM/334-793-4700

FORT LIBERTY, NORTH CAROLINA  
AUTOMATED MULTIPURPOSE TRAINING RANGE (MPTR)  
FY23, PN 96182  
VOLUMES 3 & 4 - DOWNRANGE  
E&SC PLAN  
COVER SHEET  
(DOWNRANGE)

SHEET ID  
CG719

READY TO ADVERTISE (RTA)

G:\CLEANSTUFF-15-2815376 BRAGG MPTR\PI07\_RTA\_FINAL\_SUBMITTAL\04\_CIVIL\1700\_EROSION CONTROL\B2ECG719.DWG



**E&SC**

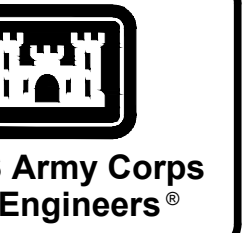
PRACTICE 6.62		SILT FENCE (SEE DETAIL SHEET CG765)
PRACTICE 6.06		CONSTRUCTION EXIT (SEE DETAIL SHEET CG766)
PRACTICE 6.17		CHANNEL STABILIZATION (SEE DETAIL SHEET CG767)
PRACTICE 6.17		EROSION CONTROL MATTING (SEE DETAIL SHEET CG767) 7-DAY GROUND COVER AREAS
PRACTICE 6.83		STONE CHECK DAM (SEE DETAIL SHEET CG768)
PRACTICE 6.31		RIP RAP CHANNEL (SEE DETAIL SHEET CG769)
PRACTICE 6.54		ROCK DOUGHNUT INLET PROTECTION (SEE DETAIL SHEET CG770)
PRACTICE 6.41		OUTLET STABILIZATION STRUCTURE (SEE DETAIL SHEET CG771)
PRACTICE 6.31		TEMPORARY SLOPE DRAIN (SEE DETAIL SHEET CG773)
PRACTICE 6.61		SEDIMENT BASIN (SEE DETAIL SHEET CG774)  SKIMMER (SEE DETAIL SHEET CG775)
PRACTICE 6.65		POROUS BAFFLES (SEE DETAIL SHEET CG776)
PRACTICE 6.62		TEMPORARY DIVERSION (SEE DETAIL SHEET CG785)
PRACTICE N/A		CLEARING & GRUBBING LIMITS
PRACTICE N/A		CONSTRUCTION LIMITS
PRACTICE 6.84		DUST CONTROL
PRACTICE 6.14		MULCHING
PRACTICE 6.10		TEMPORARY SEEDING
PRACTICE 6.11		PERMANENT SEEDING
PRACTICE 6.51		HARDWARE CLOTH & GRAVEL INLET PROT.
PRACTICE 6.60		TEMP. SEDIMENT TRAP
PRACTICE N/A		CONCRETE WASHOUT
PRACTICE 6.55		ROCK PIPE INLET PROTECTION

**CIVIL - PROPOSED**

	DEFILADE (SEE SHEETS CS505 & CS507 FOR DETAILS)		BORESIGHT/SCREENING PAD & SYNC RAMP (SEE SHEET CS527 FOR DETAIL)
	DEFILADE (SEE SHEETS CS506 & CS507 FOR DETAILS)		SECURITY GATE (SEE SHEET CS530 FOR DETAIL)
	REVERSE SLOPE BATTLE POSITION (SEE SHEETS CS508 THRU CS510 FOR DETAILS)		CONCRETE TURNING PAD (SEE SHEET CP504 FOR DETAIL)
	STATIONARY ARMOR TARGET (FRONTAL) (SEE SHEETS CS511 & CS513 FOR DETAILS)		FACADE, TYPE A (SEE ARCH SHEETS)
	STATIONARY ARMOR TARGET (FLANK) (SEE SHEETS CS511 & CS513 FOR DETAILS)		FACADE, TYPE B (SEE ARCH SHEETS)
	POWER CENTER (SEE SHEET CS512 & CS513 FOR DETAILS)		PROPOSED ROAD WITH ALIGNMENT STATIONING
	STATIONARY ARMOR TARGET WITH POWER CENTER (SEE SHEETS CS512 & CS513 FOR DETAILS)		MAJOR CONTOURS
	MOVING ARMOR TARGET (SEE SHEETS CS514 & CS515 FOR DETAILS)		MINOR CONTOURS
	WIDENED STATIONARY INFANTRY TARGET AT EACH FACADE (SEE SHEET CS516 FOR DETAIL)		CULVERT
	STATIONARY INFANTRY TARGET CLUSTER (7-MAN V) (SEE SHEET CS517 FOR DETAILS)		SPOT ELEVATION
	STATIONARY AND MOVING INFANTRY TARGET CLUSTER (6-MAN LINEAR SIT & 40M MIT) (SEE SHEET CS520 FOR DETAILS)		HORIZONTAL LINE NUMBER (SEE ROAD DATA CHARTS)
	TRENCH & MACHINE GUN BUNKER (SEE SHEETS CS521 THRU CS524 FOR DETAILS)		HORIZONTAL CURVE NUMBER (SEE ROAD DATA CHARTS)
	CAMERA TOWER (SEE SHEET CS525 FOR DETAIL)		CLEARING LIMITS
	RANGE LIMIT MARKER (SEE SHEET CS526 FOR DETAIL)		
	BORESIGHT PANEL (SEE SHEET CS526 FOR DETAIL)		

**ABBREVIATIONS**

ARCH	ARCHITECTURAL	MECH	MECHANICAL
B, B-	BUNKER	MIT, IM-	MOVING INFANTRY TARGET
BP, BP-	DEFILADE	N	NORTHING
CONC	CONCRETE	PC, PC-	POWER CENTER
E	EASTING	RCP	REINFORCED CONCRETE PIPE
EL	ELEVATION	RLM, RLM-	RANGE LIMIT MARKER
ELEC	ELECTRICAL	RSBP, RSBP-	REVERSE SLOPE BATTLE POSITION
F, F1-, F2-, F3-	FACADE	SAT, V-	STATIONARY ARMOR TARGET
FC, FC-	CAMERA TOWER	SIT, P-	STATIONARY INFANTRY TARGET
INV	INVERT	TP, TP-	CONCRETE TURNING PAD
LOS	LINE OF SIGHT	TR, TR-	TRENCH
LFV	LIVE FIRE VILLAGE	TYP	TYPICAL
MAT, M-	MOVING ARMOR TARGET	WWF	WELDED WIRE FABRIC



ISSUE DATE:	NOVEMBER 2023	DATE
DESIGNED BY:	K. SANDERS	DESCRIPTION
CHECKED BY:	B. BRADLEY	MARK
PROJECT NO.:	W91PH2448.3002	
CONTRACT NO.:		
CATEGORY CODE:	178-65-01	
FILE NAME:		
ANSI D		

U.S. ARMY CORPS OF ENGINEERS	POLY, INC.
SAVANNAH DISTRICT	1935 HEADLAND AVENUE
100 W. OGLETHORPE AVE	DOTHAN, AL 36803
SAVANNAH, GA 31401	WWW.POLY-INC.COM/3347-99-4700

FORT LIBERTY, NORTH CAROLINA	E&SC LEGENDS
AUTOMATED MULTIPURPOSE TRAINING RANGE (MPTTR)	
FY23, PN 86182	
VOLUMES 3 & 4 - DOWNRANGE	

SHEET ID
<b>CG719A</b>



G:\CLEANSTUFF-1528181376 BRAGG MPTTR\WP107\_RTA\_FINAL\_SUBMITTAL\04-CIVIL\1700-EROSION CONTROL\BEG719A.DWG

READY TO ADVERTISE (RTA)

















































































































































































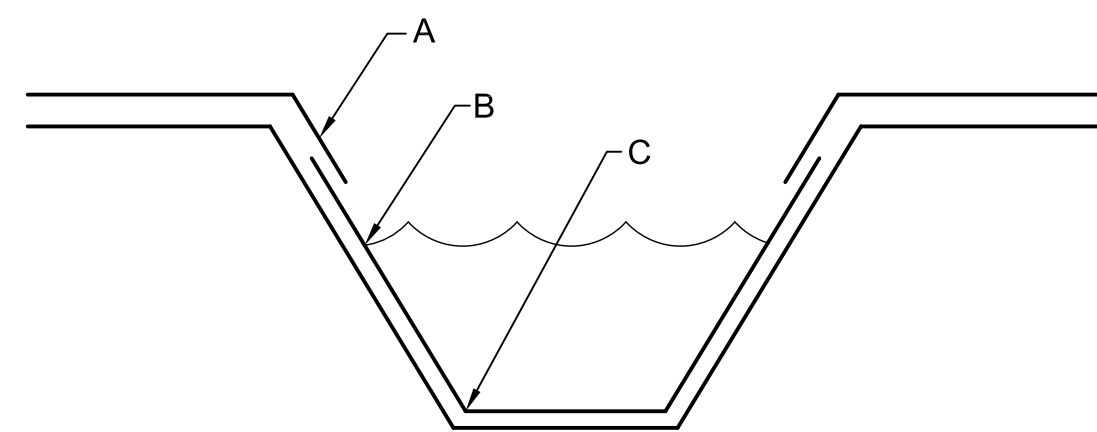
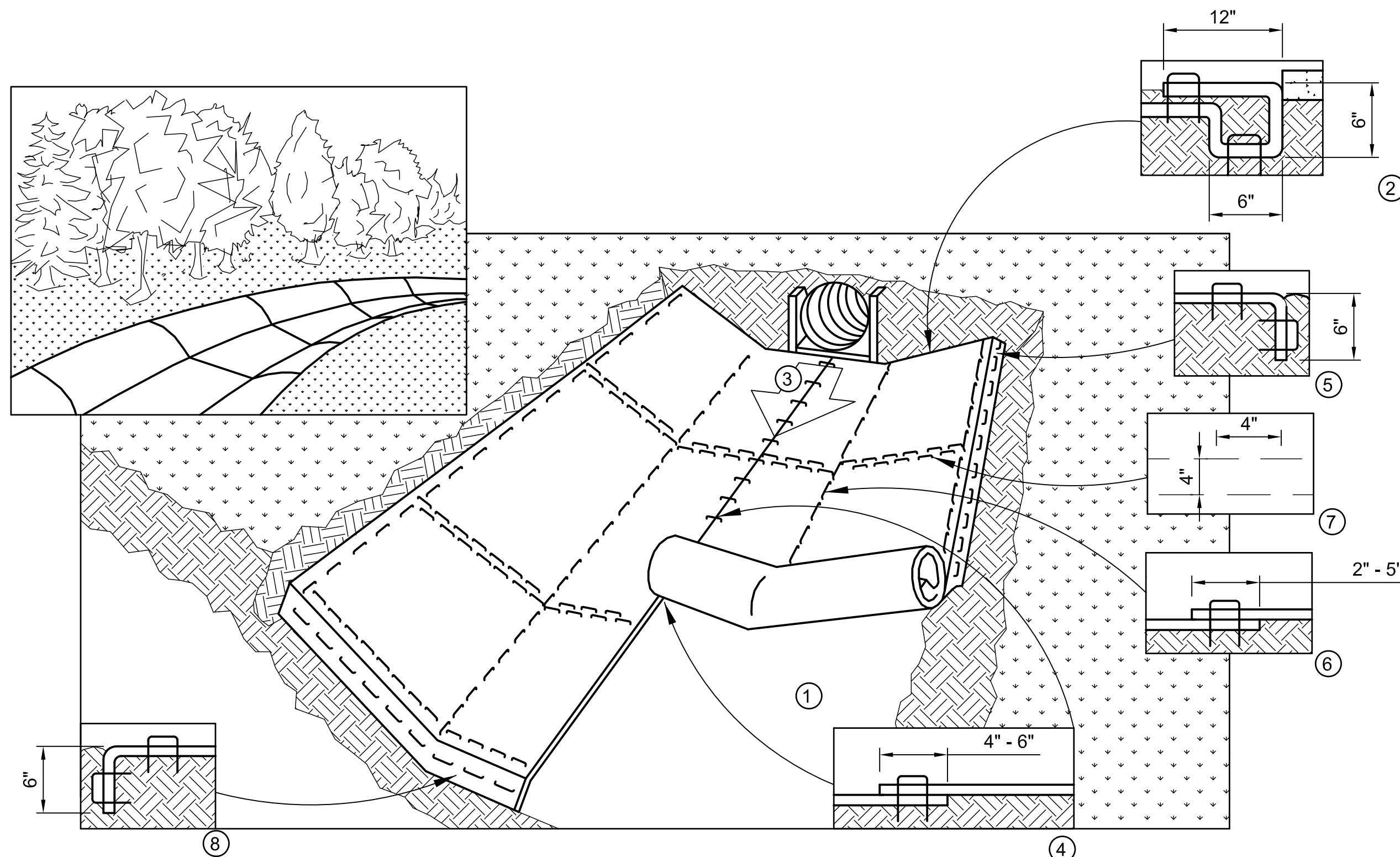




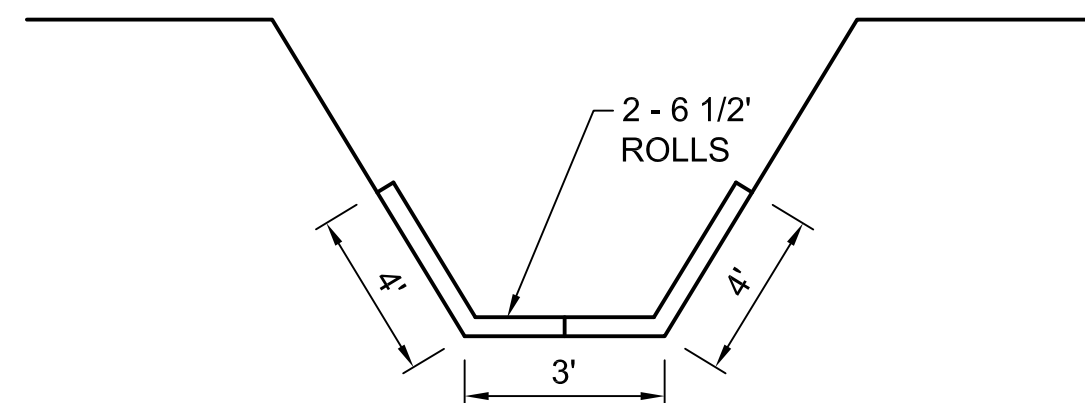








**CRITICAL POINTS**  
 A. OVERLAPS AND SEAMS  
 B. PROJECTED WATER LINE  
 C. CHANNEL BOTTOM/SIDE SLOPE VERTICES

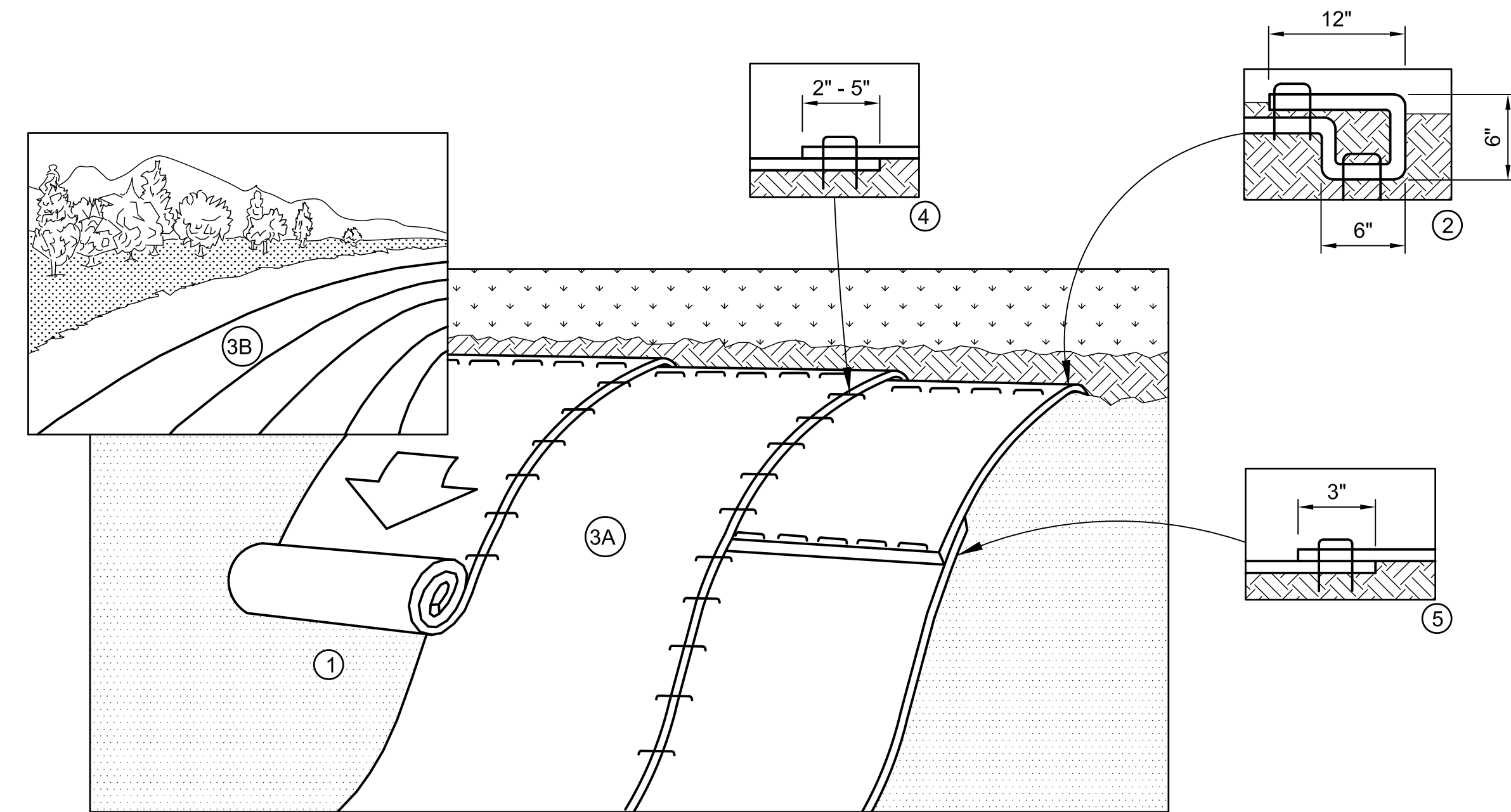


**NOTES :**

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL BLANKETS IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE MANUFACTURER'S INSTRUCTIONS.
4. PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) WITH A 4" - 6" OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER TO SECURE BLANKETS.
5. FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
6. ADJACENT BLANKETS MUST BE OVERLAPPED APPROXIMATELY 2" - 5" (DEPENDING ON BLANKET TYPE) AND STAPLED.
7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30' - 40' INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.
8. THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
9. HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.
10. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS. FOLLOW THE MANUFACTURER'S INSTRUCTIONS.
11. CHANNEL STABILIZATION SHALL BE INSTALLED IN ALL DITCHES EXCEEDING 3% BUT NOT GREATER THAN 6% GRADE.
12. CHANNEL STABILIZATION SHALL BE NORTH AMERICAN GREEN C350 OR APPROVED EQUAL.
13. INSPECT ROLLED EROSION CONTROL PRODUCTS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT. REPAIR IMMEDIATELY.
14. GOOD CONTACT WITH THE GROUND MUST BE MAINTAINED, AND EROSION MUST NOT OCCUR BENEATH THE RECP.
15. ANY AREAS OF THE RECP THAT ARE DAMAGED OR NOT IN CLOSE CONTACT WITH THE GROUND SHALL BE REPAIRED AND STAPLED.
16. IF EROSION OCCURS DUE TO POORLY CONTROLLED DRAINAGE, THE PROBLEM SHALL BE FIXED AND THE ERODED AREA PROTECTED.
17. MONITOR AND REPAIR THE RECP AS NECESSARY UNTIL GROUND COVER IS ESTABLISHED.

**CHANNEL STABILIZATION  
(PRACTICE 6.17)**

N.T.S.



**NOTES :**

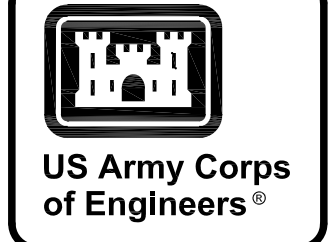
1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE MANUFACTURER'S INSTRUCTIONS.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" OVERLAP DEPENDING ON BLANKET TYPE. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.
6. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS. FOLLOW THE MANUFACTURER'S INSTRUCTIONS.
7. EROSION CONTROL MATTING SHALL BE INSTALLED ON ALL SLOPES 3:1 AND GREATER AND IN ANY OTHER AREAS AS SHOWN ON THE EROSION CONTROL PLAN SHEETS.
8. EROSION CONTROL MATTING SHALL BE NORTH AMERICAN GREEN S75 OR APPROVED EQUAL.
9. INSPECT ROLLED EROSION CONTROL PRODUCTS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT. REPAIR IMMEDIATELY.
10. GOOD CONTACT WITH THE GROUND MUST BE MAINTAINED, AND EROSION MUST NOT OCCUR BENEATH THE RECP.
11. ANY AREAS OF THE RECP THAT ARE DAMAGED OR NOT IN CLOSE CONTACT WITH THE GROUND SHALL BE REPAIRED AND STAPLED.
12. IF EROSION OCCURS DUE TO POORLY CONTROLLED DRAINAGE, THE PROBLEM SHALL BE FIXED AND THE ERODED AREA PROTECTED.
13. MONITOR AND REPAIR THE RECP AS NECESSARY UNTIL GROUND COVER IS ESTABLISHED.

**EROSION CONTROL MATTING  
(PRACTICE 6.17)**

N.T.S.

**NOTES:**

1. ALL PRACTICES SHALL BE IN ACCORDANCE WITH THE NORTH CAROLINA "EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL", LATEST EDITION.
2. SEDIMENT AND EROSION CONTROL SHALL BE STRICTLY ENFORCED.



MARK	DESCRIPTION	DATE

DESIGNED BY: K. SANDERS	ISSUE DATE: NOVEMBER 2023
CHECKED BY: B. BRADLEY	FILE NO. / DRAWING NO. / CONTRACT NO. /
U.S. ARMY CORPS OF ENGINEERS SAVANNAH DISTRICT 100 W. OGLETHORPE AVE SAVANNAH, GA 31401	CATEGORY CODE: 178-65-01
POLY, INC. 1995 HEADLAND AVENUE DOTHAN, AL 36503 WWW.POLY-INC.COM / 334-799-4700	FILE NAME:

FORT LIBERTY, NORTH CAROLINA AUTOMATED MULTIPURPOSE TRAINING RANGE (MPTR) FY23, PN 96182 VOLUMES 3 & 4 - DOWNRANGE	E&SC PLAN EROSION CONTROL MATTING & CHANNEL STABILIZATION DETAILS
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SHEET ID
<b>CG767</b>

READY TO ADVERTISE (RTA)

G:\CLEANSTUFF-15-28\15376 BRAGG MPTR\PI07\_RTA FINAL SUBMITTAL\04 CIVIL\700 EROSION CONTROL\B2ECC6767.DWG











































































