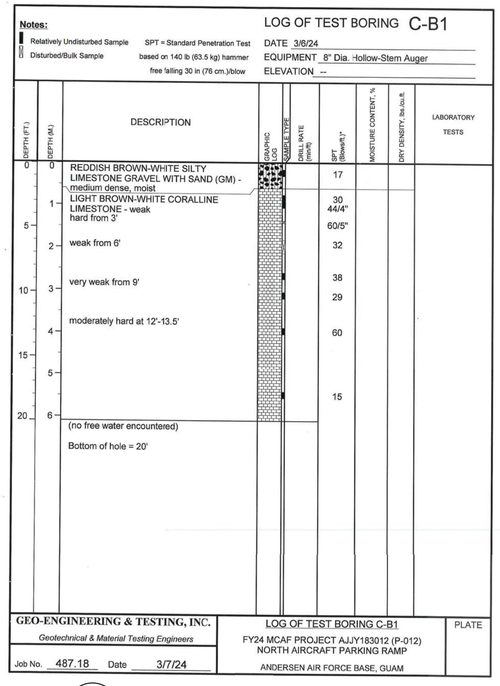
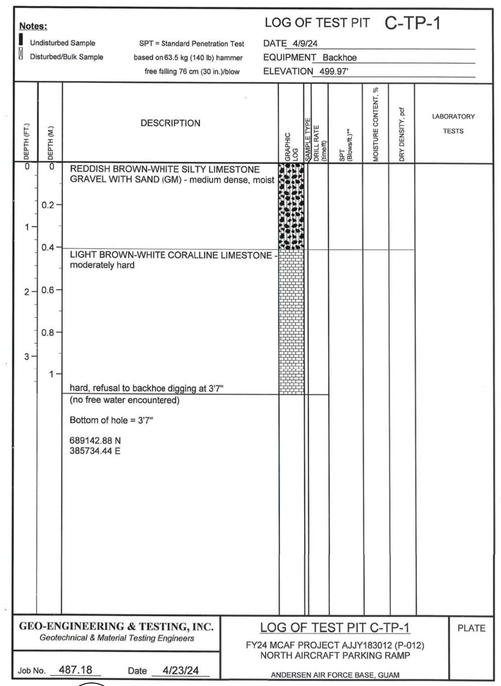
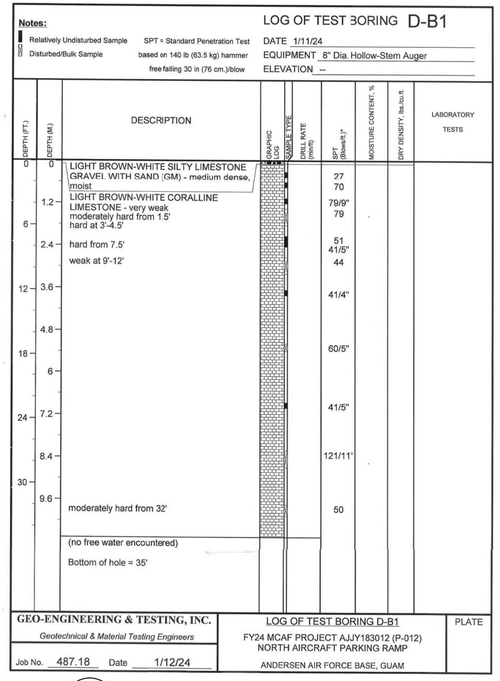


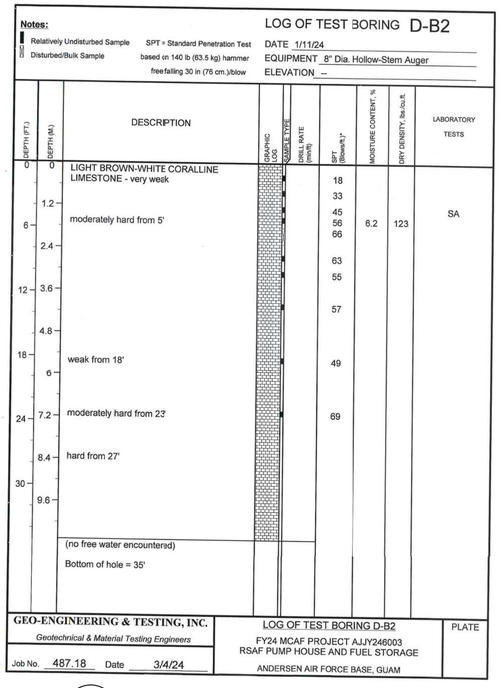
C1 BORING LOGS - C-B1
SCALE N.T.S.



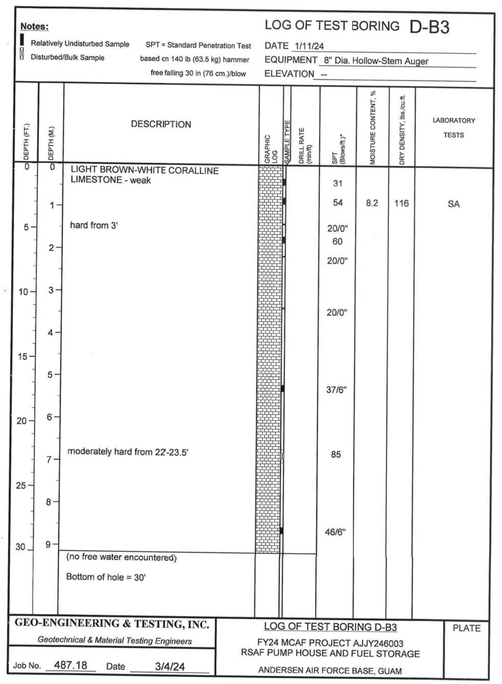
C2 BORING LOGS - C-TP-1
SCALE N.T.S.



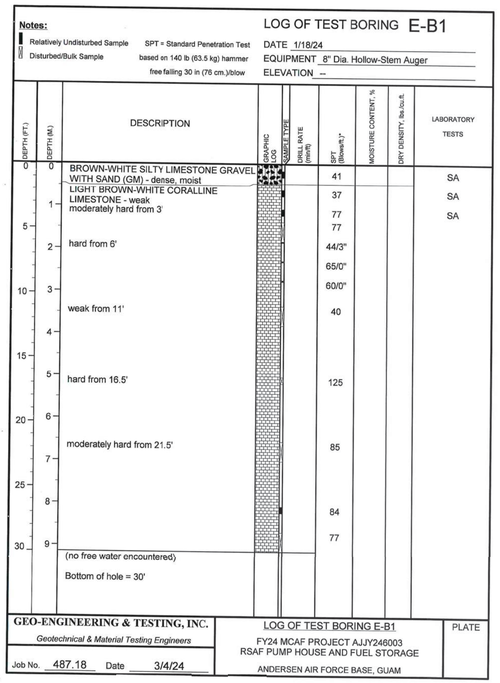
C3 BORING LOGS - D-B1
SCALE N.T.S.



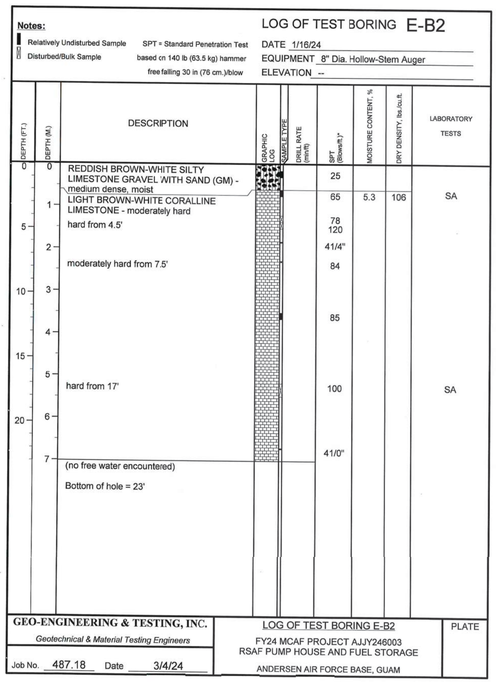
C5 BORING LOGS - D-B2
SCALE N.T.S.



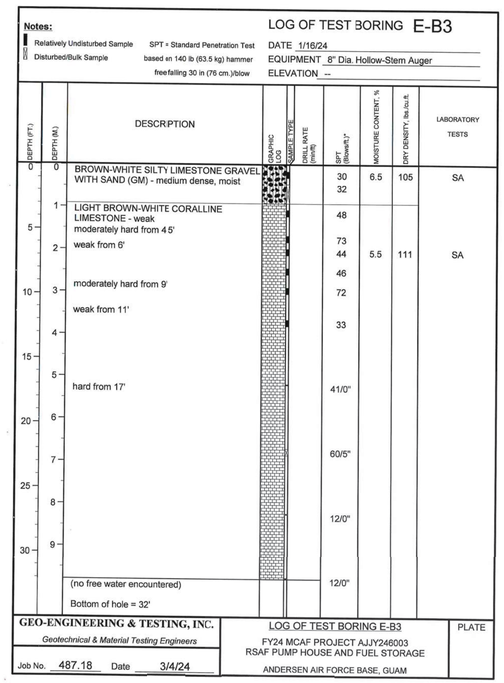
A1 BORING LOGS - D-B3
SCALE N.T.S.



A2 BORING LOGS - E-B1
SCALE N.T.S.



A3 BORING LOGS - E-B2
SCALE N.T.S.



A5 BORING LOGS - E-B3
SCALE N.T.S.

NAVFAC

STATE OF TEXAS
JENNIFER M. HAYNES
90167
LICENSED
PROFESSIONAL ENGINEER
1/20/2026
TEXAS REGISTERED ENGINEERING FIRM F-2966 SEAL

Jacobs / BURNS MCDONNELL
JACOBS/B&M, A JOINT VENTURE
1100 NORTH GLEBE ROAD
SUITE 500
ARLINGTON, VA 22201

A/E Contract No. N62742-20-D-0002
A/E Task Order No. N6274221F0315
JCG NO. 03430603
A/E INFO

APPROVED
FOR COMMANDER NAVFAC DATE 02/02/2026

ACTIVITY
AFIMSC APPROVAL PER NAVFAC SAT-TO CHECKLIST

SATISFACTORY TO DATE 31 DEC 2025

DES:	JMH	DRW:	SMC	REV:	ATM
PM/DM					KKK
BRANCH MANAGER					SMK
CHIEF ENG/ARCH					SMK
FIRE PROTECTION					RO

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVFAC PACIFIC
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND – PACIFIC
JOINT REGION MARIANAS (JRM)
ANDERSEN AIR FORCE BASE
GUAM

FY24 AJJY183012 (P-012),
PDI: NORTH AIRCRAFT PARKING RAMP

BORING LOGS

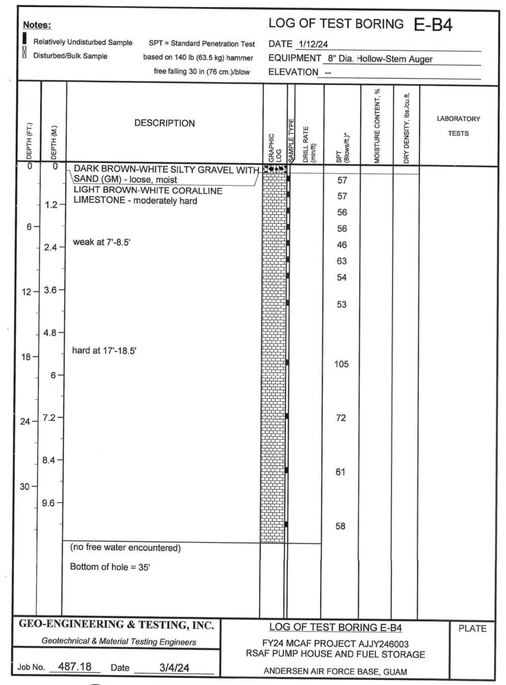
SCALE: AS SHOWN
EPROJECTS NO.: 1665555
CONSTR CONTROL NO.
NAVFAC DRAWING NO. 17361663
SHEET 40 OF 377

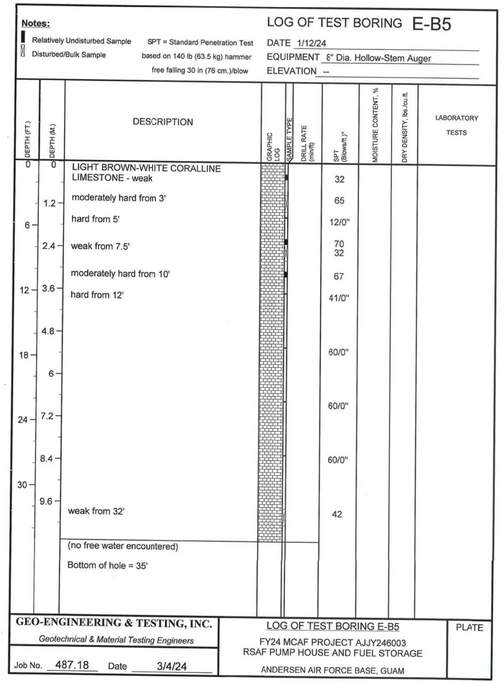
BB104

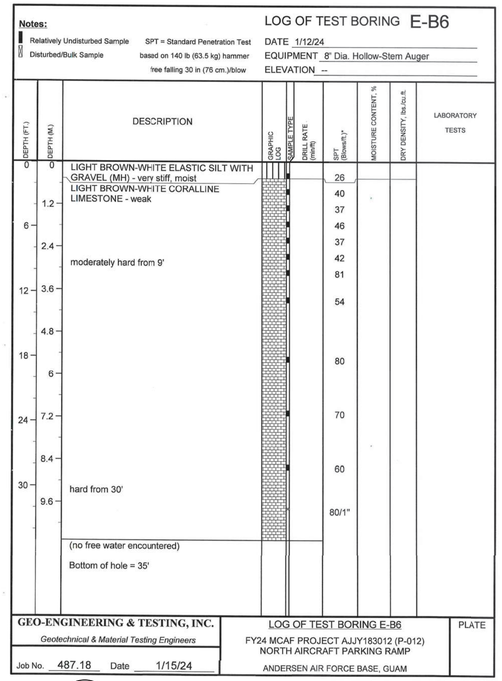
REDESIGN FINAL SUBMITTAL

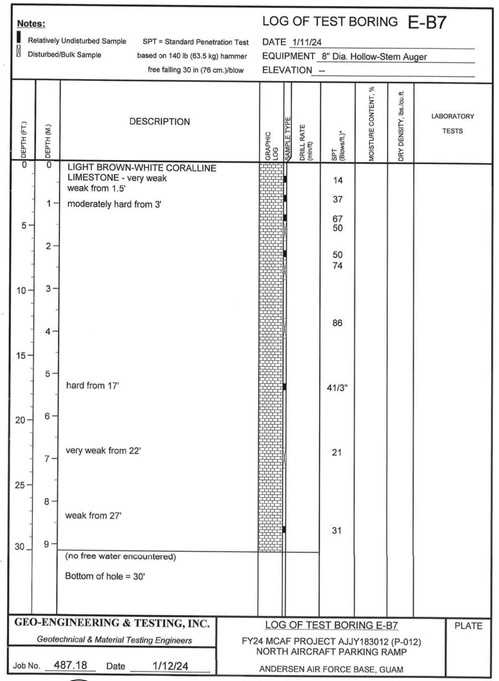
IF SHEET IS LESS THAN 22" X 34" REDUCED PRINT. USE GRAPHIC SCALES

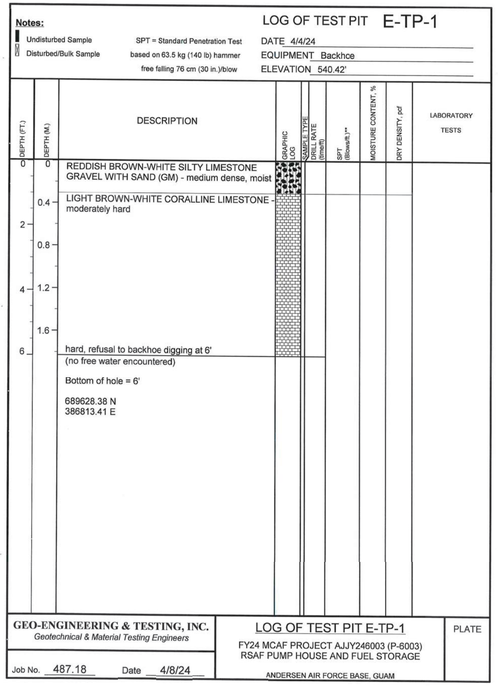
FILE NAME: U:\BLDG\NAVFAC Pacific\03430603 – P-012 North Aircraft Parking Ramp\700 Working Documents\740 Sheets\740.01 Civil\P012_1665555_BB104.dwg
LAYOUT NAME: BB104
PLOTTED: 01/12/2026 7:23pm
USER: CameronS

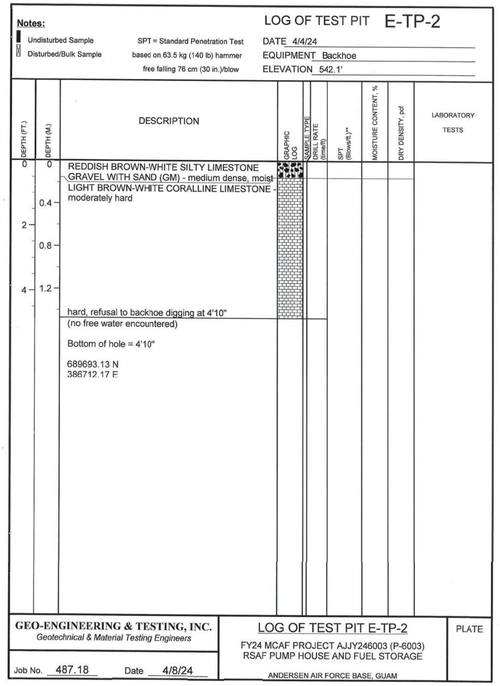


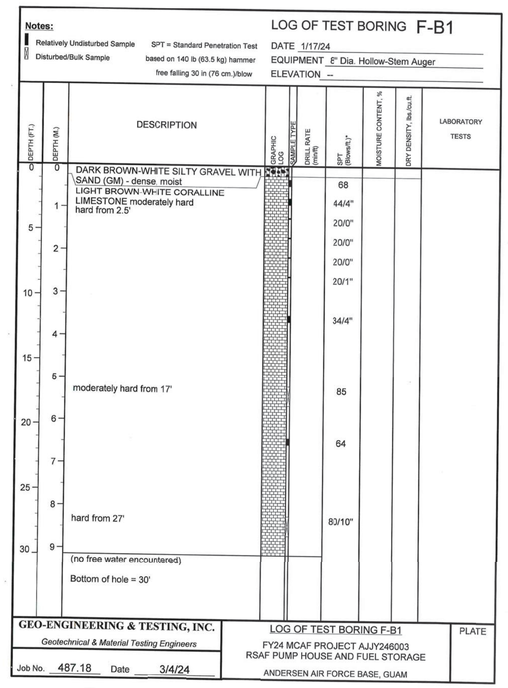


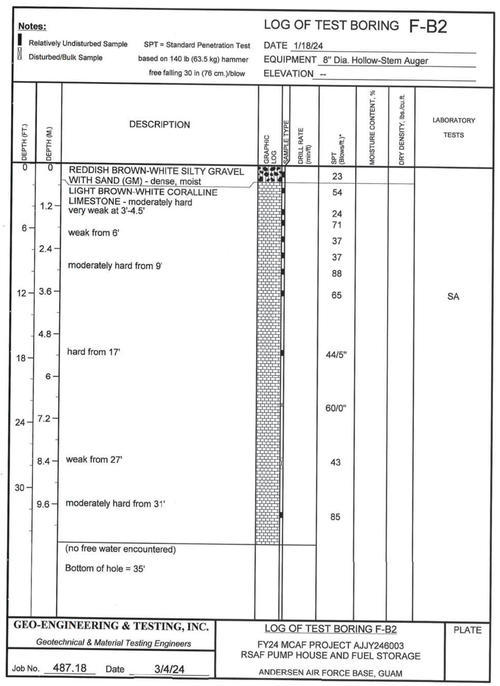












NAVFAC

JENNIFER M. HAYNES
90167
LICENSED PROFESSIONAL ENGINEER
1/20/2026
TEXAS REGISTERED ENGINEERING FIRM F-2966 SEAL

Jacobs / BURNS McDONNELL
JACOBS/B&M, A JOINT VENTURE
1100 NORTH GLEBE ROAD
SUITE 500
ARLINGTON, VA 22201
A/E Contract No. N62742-20-D-0002
A/E Task Order No. N6274221F0315
JCG NO. 03430603
A/E INFO

APPROVED
FOR COMMANDER NAVFAC DATE 02/02/2026

ACTIVITY
AFIMSC APPROVAL PER NAVFAC SAT-TO CHECKLIST
SATISFACTORY TO DATE 31 DEC 2025

DES:	JMH	DRW:	SMC	REV:	ATM
PM/DM					KKK
BRANCH MANAGER					SMK
CHIEF ENG/ARCH					SMK
FIRE PROTECTION					RO

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ~ PACIFIC
NAVFAC PACIFIC
JOINT REGION MARIANAS (JRM)
ANDERSEN AIR FORCE BASE
GUAM

FY24 AJJY183012 (P-012),
PDI: NORTH AIRCRAFT PARKING RAMP

BORING LOGS

SCALE: AS SHOWN
EPROJECTS NO.: 1665555
CONSTR CONTROL NO.
NAVFAC DRAWING NO. 17361664
SHEET 41 OF 377

BB105

REDESIGN FINAL SUBMITTAL

IF SHEET IS LESS THAN 22" X 34"
REDUCED PRINT. USE GRAPHIC SCALES

FILE NAME: U:\BLDG\NAVFAC Pacific\J3430603 – P-012 North Aircraft Parking Ramp\700 Working Documents\740 Sheets\740.01 Civil\P012_1665555_BB105.dwg
LAYOUT NAME: BB105
PLOTTED: 01/12/2026 7:23pm
USER: CameronS

Notes:
UND = Relatively Undisturbed Sample
DIST = Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING G-B1

DATE 1/18/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	CASING & TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	LIGHT BROWN-WHITE CORALLINE LIMESTONE - very weak				15			
	1					21			
5		moderately hard from 4.5'				30			
	2					54			SA
		weak at 7.5'-9.5'				54			
10	3					45			
		(no free water encountered)				85			
		Bottom of hole = 10'							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 3/4/24
LOG OF TEST BORING G-B1
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
PLATE

C1 BORING LOGS - G-B1
SCALE N.T.S.

Notes:
UND = Relatively Undisturbed Sample
DIST = Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING H-B1

DATE 1/10/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	CASING & TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	LIGHT BROWN-WHITE SILTY GRAVEL WITH SAND (GM) - medium dense, moist				14			
	1	LIGHT BROWN-WHITE CORALLINE LIMESTONE - very weak weak from 2'				36			
5		moderately hard at 5'-8'				49			
	2					55			
						43			
						58			
10	3	moderately hard from 10'				60			
	4					80			
15		(no free water encountered)							
		Bottom of hole = 15'							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 3/4/24
LOG OF TEST BORING H-B1
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
PLATE

C2 BORING LOGS - H-B1
SCALE N.T.S.

Notes:
UND = Relatively Undisturbed Sample
DIST = Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING I-B1

DATE 1/10/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	CASING & TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - medium dense, moist				15			
	1	LIGHT BROWN-WHITE CORALLINE LIMESTONE - moderately hard weak from 3'				52			
5						47			
	2	hard from 6'				37			
		very weak from 7.5'				41/5"			
						16			
10	3					29			
	4	moderately hard from 12'				50			
15		(no free water encountered)							
		Bottom of hole = 15'							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 1/12/24
LOG OF TEST BORING I-B1
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
PLATE

C3 BORING LOGS - I-B1
SCALE N.T.S.

Notes:
UND = Undisturbed Sample
DIST = Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 63.5 kg (140 lb) hammer free falling 76 cm (30 in.)/blow

LOG OF TEST PIT I-TP-1

DATE 4/9/24
EQUIPMENT Backhoe
ELEVATION 541.74'

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	CASING & TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)**	MOISTURE CONTENT, %	DRY DENSITY, pcf	LABORATORY TESTS
0	0	REDDISH BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - medium dense, moist							
	0.2								
1									
	0.4	LIGHT BROWN-WHITE CORALLINE LIMESTONE - moderately hard							
2	0.6								
	0.8								
3	1	hard, refusal to backhoe digging at 3.5'							
		(no free water encountered)							
		Bottom of hole = 3.5'							
		689615.1 N							
		387365.66 E							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 4/23/24
LOG OF TEST PIT I-TP-1
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
PLATE

C5 BORING LOGS - I-TP-1
SCALE N.T.S.

Notes:
UND = Relatively Undisturbed Sample
DIST = Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING J-B1

DATE 1/10/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	CASING & TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	DARK BROWN ELASTIC SILT (MH) - stiff, moist				10			
	1	LIGHT BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - medium dense, moist				23			
5		LIGHT BROWN-WHITE CORALLINE LIMESTONE - very weak weak from 3'				46			
	2	hard at 4.5'-6'				20/0"			
		hard from 7.5'				50			
						91/6"			
10	3	moderately hard from 10'				76			
	4	hard from 12'				27/0"			
15		(no free water encountered)							
		Bottom of hole = 15'							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 1/18/24
LOG OF TEST BORING J-B1
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
PLATE

A1 BORING LOGS - J-B1
SCALE N.T.S.

Notes:
UND = Relatively Undisturbed Sample
DIST = Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING K-B1

DATE 3/14/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION 485.25'

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	CASING & TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	DARK BROWN REDDISH SILTY LIMESTONE GRAVEL WITH SAND (GM) - very loose, moist				4			
	1	LIGHT BROWN-WHITE CORALLINE LIMESTONE - weak hard from 3'				47			
5		moderately hard at 4.5'-6'				50/10"			
	2					67			
						44/1"			
						60/0"			
10	3					65/5"			
	4					65/1"			
15		(no free water encountered)							
		Bottom of hole = 15'							
		688583.89 N							
		384709.9 E							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 3/26/24
LOG OF TEST BORING K-B1
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
PLATE

A2 BORING LOGS - K-B1
SCALE N.T.S.

Notes:
UND = Relatively Undisturbed Sample
DIST = Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING L-B1

DATE 12/28/23
EQUIPMENT 6" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	CASING & TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	REDDISH BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - loose, moist				5			
	1	dense from 1.5'				37			
		medium dense from 3'				24			
5	2	REDDISH BROWN ELASTIC SILT (MH) - very soft, moist				0			
						0			
10	3					0			
						0			
	4	LIGHT BROWN-WHITE CORALLINE LIMESTONE - hard				41/4"			
15	5					30/0"			
20	6								
	7					20/0"			
25	8					20/0"			
30	9	(no free water encountered)							
		Bottom of hole = 30'							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 1/2/24
LOG OF TEST BORING L-B1
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
PLATE

A3 BORING LOGS - L-B1
SCALE N.T.S.

Notes:
UND = Relatively Undisturbed Sample
DIST = Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING M-B1

DATE 12/26/23
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	CASING & TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - medium dense, moist				20			
	1	LIGHT BROWN-WHITE CORALLINE LIMESTONE - weak hard from 2.5'				35			
5						41/5"			
	2	moderately hard at 5'-6'				52			
		weak from 6'				47			
						42			
10	3	moderately hard from 9.5'				61			
	4					70			
15	5	hard from 15'				103			
		(no free water encountered)							
		Bottom of hole = 16.5'							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 1/2/24
LOG OF TEST BORING M-B1
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
PLATE

A5 BORING LOGS - M-B1
SCALE N.T.S.

NAVFAC

STATE OF TEXAS
JENNIFER M. HAYNES
90167
LICENSED
PROFESSIONAL ENGINEER
1/20/2026
TEXAS REGISTERED ENGINEERING FIRM F-2966 SEAL

Jacobs / BURNS MCDONNELL
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SUITE 500
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A/E Contract No. N62742-20-D-0002
A/E Task Order No. N6274221F0315
JCG NO. 0343603
A/E INFO

APPROVED
FOR COMMANDER NAVFAC DATE 02/02/2026

ACTIVITY
AFIMSC APPROVAL PER NAVFAC SAT-TO CHECKLIST

SATISFACTORY TO DATE 31 DEC 2025

DES:	JMH	DRW:	SMC	REV:	ATM
PM/DM					KKK
BRANCH MANAGER					SMK
CHIEF ENG/ARCH					SMK
FIRE PROTECTION					RO

DEPARTMENT OF THE NAVY
NAVFAC PACIFIC
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ~ PACIFIC
ANDERSEN AIR FORCE BASE
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ~ JOINT REGION MARIANAS (JRM)
GUAM
FY24 AJJY183012 (P-012),
PDI: NORTH AIRCRAFT PARKING RAMP
BORING LOGS

SCALE: AS SHOWN
EPROJECTS NO.: 1665555
CONSTR CONTROL NO.
NAVFAC DRAWING NO. 17361665
SHEET 42 OF 377

BB106

REDESIGN FINAL SUBMITTAL

IF SHEET IS LESS THAN 22" X 34" REDUCED PRINT. USE GRAPHIC SCALES

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LAYOUT NAME: BB106
PLOTTED: 01/12/2026 7:23pm
USER: CameronS

LOG OF TEST BORING M-B2

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

DATE 1/9/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	REDDISH BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - medium dense, moist				16			
	1	LIGHT BROWN-WHITE CORALLINE LIMESTONE - moderately hard				61			
5		weak from 3'				41			
	2	hard from 4.5'				60/5"			
						20/0"			
		moderately hard at 7.5'-9'				64			
10	3					81/11"			
						15/0"			
15	4	(no free water encountered)							
		Bottom of hole = 15'							

GEO-ENGINEERING & TESTING, INC.	LOG OF TEST BORING M-B2	PLATE
Geotechnical & Material Testing Engineers	FY24 MCAF PROJECT AJJY183012 (P-012) NORTH AIRCRAFT PARKING RAMP	
Job No. 487.18 Date 1/12/24	ANDERSEN AIR FORCE BASE, GUAM	

C1 BORING LOGS - M-B2
SCALE N.T.S.

LOG OF TEST BORING M-B3

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

DATE 1/9/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	REDDISH BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - dense, moist				35			
	1	LIGHT BROWN-WHITE CORALLINE LIMESTONE - hard				71/11"			
5						121			
	2					60/5"			
						42/5"			
						60/5"			
10	3					15/0"			
		moderately hard from 12'				79			
15	4	(no free water encountered)							
		Bottom of hole = 15'							

GEO-ENGINEERING & TESTING, INC.	LOG OF TEST BORING M-B3	PLATE
Geotechnical & Material Testing Engineers	FY24 MCAF PROJECT AJJY183012 (P-012) NORTH AIRCRAFT PARKING RAMP	
Job No. 487.18 Date 1/12/24	ANDERSEN AIR FORCE BASE, GUAM	

C2 BORING LOGS - M-B3
SCALE N.T.S.

LOG OF TEST BORING M-B4

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

DATE 1/9/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	DARK BROWN ELASTIC SILT WITH LIMESTONE GRAVEL (MH) - very stiff, moist/ LIGHT BROWN-WHITE CORALLINE LIMESTONE - hard				46/3"			
						80/0"			
5	1					80/0"			
						50/0"			
	2					40/1"			
						50/3"			
10	3								
						50/0"			
15	4	(no free water encountered)							
		Bottom of hole = 15'							

GEO-ENGINEERING & TESTING, INC.	LOG OF TEST BORING M-B4	PLATE
Geotechnical & Material Testing Engineers	FY24 PROJECT P-6002/AJJY246002 RSAF NON-HARDENED HANGAR	
Job No. 487.18 Date 3/4/24	ANDERSEN AIR FORCE BASE, GUAM	

C3 BORING LOGS - M-B4
SCALE N.T.S.

LOG OF TEST BORING M-B5

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

DATE 1/10/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	REDDISH BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - dense, moist				41/4"			
		LIGHT BROWN-WHITE CORALLINE LIMESTONE - hard				16/0"			
5	1					20/0"			
						15/0"			
	2					62/5"			
						15/0"			
10	3					30/0"			
						20/0"			
15	4	(no free water encountered)							
		Bottom of hole = 15'							

GEO-ENGINEERING & TESTING, INC.	LOG OF TEST BORING M-B5	PLATE
Geotechnical & Material Testing Engineers	FY24 MCAF PROJECT AJJY183012 (P-012) NORTH AIRCRAFT PARKING RAMP	
Job No. 487.18 Date 1/12/24	ANDERSEN AIR FORCE BASE, GUAM	

C5 BORING LOGS - M-B5
SCALE N.T.S.

LOG OF TEST BORING M-B6

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

DATE 3/15/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION 528.84'

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	LIGHT BROWN-WHITE CORALLINE LIMESTONE - hard				45/0"			
	1					65/1"			
5						45/0"			
	2					45/0"			
						45/0"			
10	3								
						65/1"			
15	4								
	5					10/0"			
20	6								
	7					10/0"			
25		(no free water encountered)							
		Bottom of hole = 25'							
		687682.14 N							
		384745.58 E							

GEO-ENGINEERING & TESTING, INC.	LOG OF TEST BORING M-B6	PLATE
Geotechnical & Material Testing Engineers	FY24 MCAF PROJECT AJJY183012 (P-012) NORTH AIRCRAFT PARKING RAMP	
Job No. 487.18 Date 3/26/24	ANDERSEN AIR FORCE BASE, GUAM	

A1 BORING LOGS - M-B6
SCALE N.T.S.

LOG OF TEST BORING M-B7

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

DATE 1/9/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	LIGHT BROWN-WHITE CORALLINE LIMESTONE - weak hard from 1.5'				43			
	1					30/0"			
5						27/0"			
	2					20/0"			
						20/0"			
10	3					27/0"			
						20/0"			
15	4								
	5					20/1"			
20	6								
	7					22/1"			
25		(no free water encountered)							
		Bottom of hole = 25'				22/3"			

GEO-ENGINEERING & TESTING, INC.	LOG OF TEST BORING M-B7	PLATE
Geotechnical & Material Testing Engineers	FY24 MCAF PROJECT AJJY183012 (P-012) NORTH AIRCRAFT PARKING RAMP	
Job No. 487.18 Date 3/4/24	ANDERSEN AIR FORCE BASE, GUAM	

A2 BORING LOGS - M-B7
SCALE N.T.S.

LOG OF TEST PIT M-TP-1

Notes:
Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 63.5 kg (140 lb) hammer free falling 76 cm (30 in.)/blow

DATE 4/9/24
EQUIPMENT Backhoe
ELEVATION 508.85'

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, pcf	LABORATORY TESTS
0	0	REDDISH BROWN SILT (MH) - stiff, moist							
0.2									
1	0.4								
0.6									
2		LIGHT BROWN-WHITE CORALLINE LIMESTONE - moderately hard							
0.8									
3	1								
1.2									
4		hard, refusal to backhoe digging at 4'10"							
1.4		(no free water encountered)							
		Bottom of hole = 4'10"							
		687840.2 N							
		384931.19 E							

GEO-ENGINEERING & TESTING, INC.	LOG OF TEST PIT M-TP-1	PLATE
Geotechnical & Material Testing Engineers	FY24 MCAF PROJECT AJJY246002 (P-6002) RSAF NON-HARDENED HANGAR	
Job No. 487.18 Date 4/23/24	ANDERSEN AIR FORCE BASE, GUAM	

A3 BORING LOGS - M-TP-1
SCALE N.T.S.

LOG OF TEST PIT M-TP-2

Notes:
Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 63.5 kg (140 lb) hammer free falling 76 cm (30 in.)/blow

DATE 4/8/24
EQUIPMENT Backhoe
ELEVATION 531.12'

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, pcf	LABORATORY TESTS
0	0	LIGHT BROWN-WHITE CORALLINE LIMESTONE - moderately hard							
0.2									
1	0.4								
		hard, refusal to backhoe digging at 1'7"							
		(no free water encountered)							
		Bottom of hole = 1'7"							
		687644.32 N							
		384875.1 E							

GEO-ENGINEERING & TESTING, INC.	LOG OF TEST PIT M-TP-2	PLATE
Geotechnical & Material Testing Engineers	FY24 MCAF PROJECT AJJY246002 (P-6002) RSAF NON-HARDENED HANGAR	
Job No. 487.18 Date 4/8/24	ANDERSEN AIR FORCE BASE, GUAM	

A5 BORING LOGS - M-TP2
SCALE N.T.S.

NAVFAC

STATE OF TEXAS
JENNIFER M. HAYNES
90167
LICENSED
PROFESSIONAL ENGINEER
1/20/2026
TEXAS REGISTERED ENGINEERING FIRM F-2966 SEAL

Jacobs / BURNS MCDONNELL
JACOBS/B&M, A JOINT VENTURE
1100 NORTH GLEBE ROAD
SUITE 500
ARLINGTON, VA 22201

A/E Contract No./N62742-2D-0002
A/E Task Order No./N6274221F0315
JCG NO./3430603
A/E INFO

APPROVED
FOR COMMANDER NAVFAC DATE 02/02/2026

ACTIVITY
AFIMSC APPROVAL PER NAVFAC SAT-TO CHECKLIST

SATISFACTORY TO DATE 31 DEC 2025

DES:	JMH	DRW:	SMC	REV:	ATM
PM/DM					KKK
BRANCH MANAGER					SMK
CHIEF ENG/ARCH					SMK
FIRE PROTECTION					RO

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVFAC PACIFIC
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ~ PACIFIC
JOINT REGION MARIANAS (JRM)
ANDERSEN AIR FORCE BASE
GUAM

FY24 AJJY183012 (P-012),
PDI: NORTH AIRCRAFT PARKING RAMP

BORING LOGS

SCALE: AS SHOWN
EPROJECTS NO.: 1665555
CONSTR CONTROL NO.
NAVFAC DRAWING NO. 17361666
SHEET 43 OF 377

BB107

REDESIGN FINAL SUBMITTAL

IF SHEET IS LESS THAN 22" X 34" REDUCED PRINT. USE GRAPHIC SCALES

FILE NAME: U:\BLDG\NAVFAC Pacific\J3430603 – P-012 North Aircraft Parking Ramp\700 Working Documents\740 Sheets\740.01 Civil\P012_1665555_BB107.dwg
LAYOUT NAME: BB107
PLOTTED: 01/12/2026 7:24pm
USER: CamenoS

Notes:
Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 63.5 kg (140 lb) hammer free falling 76 cm (30 in.)/blow

LOG OF TEST PIT M-TP-3

DATE 4/8/24
EQUIPMENT Backhoe
ELEVATION 525.78'

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (mm/8)	SPT (Blows/0.3°)	MOISTURE CONTENT, %	DRY DENSITY, pcf	LABORATORY TESTS
0	0	REDDISH BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - medium dense, moist							
	0.2								
1		LIGHT BROWN-WHITE CORALLINE LIMESTONE - moderately hard							
	0.4								
2	0.6								
	0.8								
3		hard, refusal to backhoe digging at 3'							
		(no free water encountered)							
		Bottom of hole = 3'							
		687689.27 N							
		384683.38 E							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 4/8/24

LOG OF TEST PIT M-TP-3
FY24 MCAF PROJECT AJJY246002 (P-6002)
RSAF NON-HARDENED HANGAR
ANDERSEN AIR FORCE BASE, GUAM

PLATE

C1 BORING LOGS - M-TP-3
SCALE N.T.S.

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING N-B1

DATE 12/20/23
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (mm/ft)	SPT (Blows/0.3°)	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - medium dense, moist				30			
1		LIGHT BROWN-WHITE CORALLINE LIMESTONE - very weak				23			
5		weak at 3'-4.5'				31			
2		moderately hard from 6'				30			
						68			
10	3					57			
						65			
4						93			
15									
5		hard from 17'				80/5"			
20	6								
7						15/0"			
25	8								
		moderately hard from 27'				85			
30	9	(no free water encountered)							
		Bottom of hole = 30'							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 1/2/24

LOG OF TEST BORING N-B1
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM

PLATE

C2 BORING LOGS - N-B1
SCALE N.T.S.

Notes:
Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test basec on 63.5 kg (140 lb) hammer free falling 76 cm (30 in.)/blow

LOG OF TEST PIT N-TP-1

DATE 4/9/24
EQUIPMENT Backhoe
ELEVATION 518.27'

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (mm/8)	SPT (Blows/0.3°)	MOISTURE CONTENT, %	DRY DENSITY, pcf	LABORATORY TESTS
0	0	REDDISH BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - medium dense, moist							
	0.2								
1		LIGHT BROWN-WHITE CORALLINE LIMESTONE - moderately hard							
	0.4								
2	0.6								
	0.8								
		hard, refusal to backhoe digging at 2.75'							
		(no free water encountered)							
		Bottom of hole = 2.75'							
		687758.97 N							
		385300.7 E							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 4/23/24

LOG OF TEST PIT N-TP-1
FY24 MCAF PROJECT AJJY246002 (P-6002)
RSAF NON-HARDENED HANGAR
ANDERSEN AIR FORCE BASE, GUAM

PLATE

C3 BORING LOGS - N-TP-1
SCALE N.T.S.

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING O-B1

DATE 12/22/23
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (mm/ft)	SPT (Blows/0.3°)	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - medium dense, moist				18			
		LIGHT BROWN-WHITE CORALLINE LIMESTONE - very weak				33			
5	1	weak from 1.5'				75/6"			
		hard at 3'-6'				95			
2									
						48/5"			
10	3					115			
						120			
4		moderately hard from 12'				93			
15									
5						95			
20	6								
7						74			
25	8								
						82			
30	9	(no free water encountered)							
		Bottom of hole = 30'							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 1/2/24

LOG OF TEST BORING O-B1
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM

PLATE

C5 BORING LOGS - O-B1
SCALE N.T.S.

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING O-B2

DATE 12/22/23
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (mm/ft)	SPT (Blows/0.3°)	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	LIGHT BROWN-WHITE CORALLINE LIMESTONE - very weak				23			
	1.2	moderately hard from 2.5' weak from 3'				54	4.4	93	SA
6						37			
	2.4					49			
		moderately hard from 9'							
12	3.6	hard at 10.5'-12'				84			
		weak from 12'				54/0"			
	4.8					44			
18	6					34			
		hard from 22'				48/0"			
24	7.2								
	8.4	very weak from 27'				24			
30	9.6								
		(no free water encountered)							
		Bottom of hole = 35'							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 3/4/24

LOG OF TEST BORING O-B2
FY24 PROJECT P-6002/AJJY246002
RSAF NON-HARDENED HANGAR
ANDERSEN AIR FORCE BASE, GUAM

PLATE

A1 BORING LOGS - O-B2
SCALE N.T.S.

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING O-B3

DATE 12/27/23
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (mm/ft)	SPT (Blows/0.3°)	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - dense, moist				33			
		LIGHT BROWN-WHITE CORALLINE LIMESTONE - weak				49			
5	1					46			
		hard from 4.5'				41/2"			
2						75/6"			
						15/0"			
10	3					10/0"			
		moderately hard at 12'-13.5'							
4						68			
15									
5						20/0"			
20	6								
7						60/3"			
25	8								
						20/0"			
30	9								
		weak from 32'				46			
35	10								

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 1/2/24

LOG OF TEST BORING O-B3
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM

PLATE

A2 BORING LOGS - O-B3
SCALE N.T.S.

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test basec on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING O-B3

DATE 12/27/23
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (mm/ft)	SPT (Blows/0.3°)	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
35	11								
						41			
40	12	(no free water encountered)							
		Bottom of hole = 40'							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 1/2/24

LOG OF TEST BORING O-B3 (continued)
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM

PLATE (cont'd)

A3 BORING LOGS - O-B3
SCALE N.T.S.

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING O-B4

DATE 12/20/23
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (mm/ft)	SPT (Blows/0.3°)	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	REDDISH BROWN-WHITE ELASTIC SILT (MH) - soft, moist				68	12.3	105	SA
		LIGHT BROWN-WHITE CORALLINE LIMESTONE - moderately hard				82			
5	1					50			
						90			
2						82			
		hard at 8.5'-10'				107			
10	3					91			
						54			
4									
15									
5						97			
20	6								
7		weak at 22'-23.5'				41			
25	8								
						73			
30	9								
						71			
35	10								

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 3/4/24

LOG OF TEST BORING O-B4
FY24 PROJECT P-6002/AJJY246002
RSAF NON-HARDENED HANGAR
ANDERSEN AIR FORCE BASE, GUAM

PLATE

A5 BORING LOGS - O-B4
SCALE N.T.S.

NAVFAC

STATE OF TEXAS
JENNIFER M. HAYNES
90167
LICENSED
PROFESSIONAL ENGINEER
1/20/2026
TEXAS REGISTERED ENGINEERING FIRM F-2966 SEAL

Jacobs / BURNS McDONNELL
JACOBS/B&M, A JOINT VENTURE
1100 NORTH GLEBE ROAD
SUITE 500
ARLINGTON, VA 22201

A/E Contract No. N62742-20-D-0002
A/E Task Order No. N6274221F0315
JCG NO. 03430603
A/E INFO

APPROVED
FOR COMMANDER NAVFAC DATE 02/02/2026

ACTIVITY
AFIMSC APPROVAL PER NAVFAC SAT-TO CHECKLIST

SATISFACTORY TO DATE 31 DEC 2025

DES:	JMH	DRW:	SMC	REV:	ATM
PM/DM					KKK
BRANCH MANAGER					SMK
CHIEF ENG/ARCH					SMK
FIRE PROTECTION					RO

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVFAC PACIFIC
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND – PACIFIC
JOINT REGION MARIANAS (JRM)
ANDERSEN AIR FORCE BASE
GUAM

FY24 AJJY183012 (P-012),
PDI: NORTH AIRCRAFT PARKING RAMP

BORING LOGS

SCALE: AS SHOWN
EPROJECTS NO.: 1665555
CONSTR CONTROL NO.
NAVFAC DRAWING NO. 17361667
SHEET 44 OF 377

BB108

REDESIGN FINAL SUBMITTAL

IF SHEET IS LESS THAN 22" X 34"
REDUCED PRINT. USE GRAPHIC SCALES

FILE NAME: U:\BLDG\NAVFAC Pacific\03430603 – P-012 North Aircraft Parking Ramp\700 Working Documents\740 Sheets\740.01 Civil\P012_1665555_BB108.dwg
LAYOUT NAME: BB108
PLOTTED: 01/12/2026 7:24pm
USER: CamenoS

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING O-B4

DATE 12/20/23
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
35	11					83			
40	12					74			
		(no free water encountered)							
		Bottom of hole = 40'							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 3/4/24
LOG OF TEST BORING O-B4 (continued)
FY24 PROJECT P-6002/AJJY246002
RSAF NON-HARDENED HANGAR
ANDERSEN AIR FORCE BASE, GUAM
PLATE (cont'd)

C1 BORING LOGS - O-B4
SCALE N.T.S.

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING O-B5

DATE 12/21/23
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - medium dense, moist				27			
5	1	LIGHT BROWN-WHITE CORALLINE LIMESTONE - moderately hard hard from 3'				66			
	2	moderately hard from 6'				70/11" 60/5"			
10	3	hard from 9'				52			
						52 10/0"			
	4					43/5"			
15	5					60/5"			
20	6								
	7					60/5"			
25	8	moderately hard at 27'-28.5'				88			
30	9	(no free water encountered)							
		Bottom of hole = 30'							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 1/2/24
LOG OF TEST BORING O-B5
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
PLATE

C2 BORING LOGS - O-B5
SCALE N.T.S.

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING P-B1

DATE 12/18/23 to 12/19/23
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	LIGHT BROWN-WHITE CORALLINE LIMESTONE - hard				10/0"			
5	1					17/0"			
	2					15/0"			
10	3					60/3"			
	4					108			
15	5								
20	6					30/1"			
	7					15/0"			
25	8								
30	9					10/0"			
		(no free water encountered)							
		Bottom of hole = 30'							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 1/2/24
LOG OF TEST BORING P-B1
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
PLATE

C3 BORING LOGS - P-B1
SCALE N.T.S.

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING Q-B1

DATE 2/9/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	LIGHT BROWN-WHITE CORALLINE LIMESTONE BOULDER - hard, (boulder fill)							
5	1	DARK BROWN-WHITE SILTY GRAVEL WITH SAND (GM) - loose, moist				10			
		LIGHT BROWN-WHITE CORALLINE LIMESTONE - very weak, (boulder fill)							
10	2	LIGHT BROWN-WHITE CORALLINE LIMESTONE - hard				34/2" 60/1"			
						60/1"			
	3					60/1"			
		(no free water encountered)							
		Bottom of hole = 10'							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 2/12/24
LOG OF TEST BORING Q-B1
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
PLATE

C5 BORING LOGS - Q-B1
SCALE N.T.S.

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING Q-B2

DATE 3/14/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION 519.65'

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	LIGHT BROWN-REDDISH WHITE GRAVELLY SILT (ML) - soft, moist very stiff from 1.5'				3 19			
5	1	LIGHT BROWN-WHITE CORALLINE LIMESTONE - hard				15/0"			
	2					15/0"			
10	3					15/0"			
						15/0"			
	4					15/0"			
15		(no free water encountered)							
		Bottom of hole = 15'							
		687655.24 N							
		385429.45 E							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 3/26/24
LOG OF TEST BORING Q-B2
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
PLATE

A1 BORING LOGS - Q-B2
SCALE N.T.S.

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING Q-B3

DATE 2/9/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	LIGHT BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - medium dense, moist				17			
5	1	LIGHT BROWN-WHITE CORALLINE LIMESTONE - weak moderately hard from 4'				31			
	2	very weak at 7'-8.5'				67			
10	3					63			
						27			
	4					68			
15						69			
						75			
		(no free water enconuntered)							
		Bottom of hole = 15'							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 2/12/24
LOG OF TEST BORING Q-B3
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
PLATE

A2 BORING LOGS - Q-B3
SCALE N.T.S.

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING Q-B4

DATE 3/14/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION 519.85'

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	LIGHT BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - dense, moist				37			
5	1	LIGHT BROWN-WHITE CORALLINE LIMESTONE - hard				44/1"			
	2					45/1"			
10	3	moderately hard from 9'				45/1"			
						73/9"			
	4					56/0"			
15						88			
						72			
		(no free water encountered)							
		Bottom of hole = 15'							
		687715.24 N							
		385929.63 E							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 3/26/24
LOG OF TEST BORING Q-B4
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
PLATE

A3 BORING LOGS - Q-B4
SCALE N.T.S.

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING Q-B5

DATE 2/8/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	DARK BROWN WHITE SILTY LIMESTONE \GRAVEL WITH SAND (GM) - dense, moist				49 83			
5	1	LIGHT BROWN-WHITE CORALLINE LIMESTONE - moderately hard hard from 3'				50/2"			
	2					107/8"			
10	3					50/2"			
						50/1"			
	4					90/6"			
15						114			
		(no free water encountered)							
		Bottom of hole = 15'							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 2/12/24
LOG OF TEST BORING Q-B5
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
PLATE

A5 BORING LOGS - Q-B5
SCALE N.T.S.

NAVFAC

STATE OF TEXAS
JENNIFER M. HAYNES
90167
LICENSED
PROFESSIONAL ENGINEER
1/20/2026
TEXAS REGISTERED ENGINEERING FIRM F-2966 SEAL

Jacobs / BURNS MCDONNELL
JACOBS/BMM, A JOINT VENTURE
1100 NORTH GLEBE ROAD
SUITE 500
ARLINGTON, VA 22201

A/E Contract No./N62742-2D-0002
A/E Task Order No./N6274221F0315
JCG NO./C3430603
A/E INFO

APPROVED
FOR COMMANDER NAVFAC DATE 02/02/2026

ACTIVITY
AFIMSC APPROVAL PER NAVFAC SAT-TO CHECKLIST

SATISFACTORY TO DATE 31 DEC 2025

DES:	JMH	DRW:	SMC	REV:	ATM
PM/DM					KKK
BRANCH MANAGER					SMK
CHIEF ENG/ARCH					SMK
FIRE PROTECTION					RO

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVFAC PACIFIC
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND – PACIFIC
JOINT REGION MARIANAS (JRM)
ANDERSEN AIR FORCE BASE
GUAM

FY24 AJJY183012 (P-012),
PDI: NORTH AIRCRAFT PARKING RAMP

BORING LOGS

SCALE: AS SHOWN
EPROJECTS NO.: 1665555
CONSTR CONTROL NO.
NAVFAC DRAWING NO. 17361668
SHEET 45 OF 377

BB109

REDESIGN FINAL SUBMITTAL

IF SHEET IS LESS THAN 22" X 34" REDUCED PRINT. USE GRAPHIC SCALES

FILE NAME: U:\BLDG\NAVFAC Pacific\D3430603 – P-012 North Aircraft Parking Ramp\700 Working Documents\740 Sheets\740.01 Civil\P012_1665555_BB109.dwg
LAYOUT NAME: BB109
PLOTTED: 01/12/2026 7:25pm
USER: CameronS

LOG OF TEST BORING Q-B6

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

DATE 2/8/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	SPT (Blows/ft.)*
0	0	DARK BROWN ELASTIC SILT (MH) - stiff, moist	
		LIGHT BROWN-WHITE CORALLINE LIMESTONE - hard	67/7"
5	1		68/1"
	2		
10	3		15/0"
	4	very weak from 12'	28
15		(no free water encountered)	
		Bottom of hole = 15'	

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 2/12/24

LOG OF TEST BORING Q-B6
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM

PLATE

C1 BORING LOGS - Q-B6
SCALE N.T.S.

LOG OF TEST PIT Q-TP-1

Notes:
Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 63.5 kg (140 lb) hammer free falling 76 cm (30 in.)/blow

DATE 4/8/24
EQUIPMENT Backhoe
ELEVATION 512.1'

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION
0	0	REDDISH BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - medium dense, moist
	0.2	
1		LIGHT BROWN-WHITE CORALLINE LIMESTONE - moderately hard
	0.4	
2	0.6	
	0.8	hard, refusal to backhoe digging at 2'8"
		(no free water encountered)
		Bottom of hole = 2'8"
		687880.46 N
		385724.86 E

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 4/8/24

LOG OF TEST PIT Q-TP-1
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM

PLATE

C2 BORING LOGS - Q-TP-1
SCALE N.T.S.

LOG OF TEST PIT Q-TP-2

Notes:
Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 63.5 kg (140 lb) hammer free falling 76 cm (30 in.)/blow

DATE 4/9/24
EQUIPMENT Backhoe
ELEVATION 517.93'

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION
0	0	REDDISH BROWN-WHITE SILTY GRAVEL WITH SAND (GM) - medium dense, moist
	0.2	
1		
	0.4	LIGHT BROWN-WHITE CORALLINE LIMESTONE - moderately hard
2	0.6	
	0.8	
3		
	1	hard, refusal to backhoe digging at 3.5'
		(no free water encountered)
		Bottom of hole = 3.5'
		687657.23 N
		385597.56 E

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 4/23/24

LOG OF TEST PIT Q-TP-2
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM

PLATE

C3 BORING LOGS - Q-TP-2
SCALE N.T.S.

LOG OF TEST BORING R-B1

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

DATE 11/30/23
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	SPT (Blows/ft.)*
0	0	REDDISH BROWN-WHITE GRAVELLY SILT (GM) - loose, moist	4
			6
5	1	LIGHT BROWN-WHITE CORALLINE LIMESTONE - weak hard from 4.5'	46
	2		42/5"
			50/5"
		moderately hard at 7.5'-9'	58
10	3		80/5"
	4	moderately hard from 12'	71
15			
	5	weak from 17'	46
20	6		
	7	hard from 22'	43/5"
25			
	8		34/2"
30	9	(no free water encountered)	
		Bottom of hole = 30'	

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 12/6/23

LOG OF TEST BORING R-B1
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM

PLATE

C5 BORING LOGS - R-B1
SCALE N.T.S.

LOG OF TEST BORING R-B2

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

DATE 11/30/23
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	SPT (Blows/ft.)*	LABORATORY TESTS
0	0	REDDISH BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - very dense, moist	44	
		LIGHT BROWN-WHITE CORALLINE LIMESTONE - moderately hard	66	
	1.2		73	
6		hard from 4.5'	92/9"	SA
	2.4		44/5"	
			111	
12	3.6		62/5"	
			15/0"	
18	4.8			
	6		16/0"	
24	7.2		60/4"	
	8.4		10/0"	
30				
	9.6		108	
		(no free water encountered)	44/3"	
		Bottom of hole = 35'		

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 12/6/23

LOG OF TEST BORING R-B2
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM

PLATE

A1 BORING LOGS - R-B2
SCALE N.T.S.

LOG OF TEST BORING R-B3

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

DATE 2/21/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	SPT (Blows/ft.)*	LABORATORY TESTS
0	0	DARK BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - medium dense, moist	16	
	1.2	LIGHT BROWN-WHITE CORALLINE LIMESTONE - very weak moderately hard from 3 hard from 4.5'	24	
6			66	
	2.4		20/0"	
			20/0"	
12	3.6		34/2"	
			20/1"	
18	4.8		20/0"	
	6		20/0"	
24	7.2		30/0"	
	8.4		20/1"	
30				
	9.6		20/0"	
		(no free water encountered)		
		Bottom of hole = 35'		

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 2/23/24

LOG OF TEST BORING R-B3
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM

PLATE

A2 BORING LOGS - R-B3
SCALE N.T.S.

LOG OF TEST BORING R-B4

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

DATE 12/6/23 to 12/7/23
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	SPT (Blows/ft.)*	LABORATORY TESTS
0	0	REDDISH BROWN ELASTIC SILT (MH) - very soft, moist	1	
			1	
	1.2	REDDISH BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - loose, moist	8	
6		medium dense at 4.5'-6'	17	
	2.4		7	
		hard at 8'-9'	58/11"	
12	3.6	loose from 9'	8	
		LIGHT BROWN-WHITE CORALLINE LIMESTONE - hard	30/1"	
18	4.8			
	6	very weak from 17'	24	
24	7.2			
		hard from 22'	60/5"	
	8.4	very weak from 27'	28	
30				
	9.6	moderately hard from 32'	70	
36	10.8		72	
		(no free water encountered)		
		Bottom of hole = 36.5'		

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 12/11/23

LOG OF TEST BORING R-B4
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM

PLATE

A3 BORING LOGS - R-B4
SCALE N.T.S.

LOG OF TEST BORING R-B5

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

DATE 12/5/23 to 12/6/23
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	SPT (Blows/ft.)*	LABORATORY TESTS
0	0	BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - very dense, moist	42/4"	
	1.2	LIGHT BROWN-WHITE CORALLINE LIMESTONE - hard moderately hard at 3'-4.5'	60/4"	
6			61	
	2.4		60/4"	
		moderately hard at 6'-7.5'	90	
12	3.6		15/0" 102	
			42/5"	
18	4.8	moderately hard from 17'	84	
	6		63	
24	7.2			
	8.4	hard from 27'	66/11"	
30				
	9.6	weak from 32'	36	
36	10.8		30	
		(no free water encountered)		
		Bottom of hole = 36.5'		

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 12/11/23

LOG OF TEST BORING R-B5
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM

PLATE

A5 BORING LOGS - R-B5
SCALE N.T.S.

NAVFAC

STATE OF TEXAS
JENNIFER M. HAYNES
90167
LICENSED
PROFESSIONAL ENGINEER
1/20/2026
TEXAS REGISTERED ENGINEERING FIRM F-2966 SEAL

Jacobs / BURNS McDONNELL
JACOBS/B&M, A JOINT VENTURE
1100 NORTH GLEBE ROAD
SUITE 500
ARLINGTON, VA 22201

A/E Contract No. N62742-20-D-0002
A/E Task Order No. N6274221F0315
JCG NO. 03430603
A/E INFO

APPROVED
FOR COMMANDER NAVFAC DATE 02/02/2026

ACTIVITY
AFIMSC APPROVAL PER NAVFAC SAT-TO CHECKLIST

SATISFACTORY TO DATE 31 DEC 2025

DES:	JMH	DRW:	SMC	REV:	ATM
PM/DM					KKK
BRANCH MANAGER					SMK
CHIEF ENG/ARCH					SMK
FIRE PROTECTION					RO

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVFAC PACIFIC
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND – PACIFIC
JOINT REGION MARIANAS (JRM)
ANDERSEN AIR FORCE BASE
GUAM

FY24 AJJY183012 (P-012),
PDI: NORTH AIRCRAFT PARKING RAMP

BORING LOGS

SCALE: AS SHOWN
EPROJECTS NO.: 1665555
CONSTR CONTROL NO.

NAVFAC DRAWING NO.
17361669

SHEET 46 OF 377

BB110

REDESIGN FINAL SUBMITTAL

FILE NAME: U:\BLDG\NAVFAC Pacific\JJ430603 – P-012 North Aircraft Parking Ramp\700 Working Documents\740 Sheets\740.01 Civil\P012_1665555_BB110.dwg
LAYOUT NAME: BB110
PLOTTED: 01/12/2026 7:25pm
USER: CameronS

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LOG OF TEST BORING R-B6

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

DATE 2/13/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	DARK BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - medium dense, moist				17			
5	1	loose from 1.5'				8			
		DARK BROWN ELASTIC SILT (MH) - soft, moist				3			
	2	medium stiff from 6'				2			
		LIGHT BROWN-WHITE CORALLINE LIMESTONE - moderately hard				8			
10	3					67			
						52			
15	4					61			
	5	weak from 18'				35			
20	6					45			
25	7								
	8	very weak from 28'				20			
30	9								
35	10	weak from 33'				44			

GEO-ENGINEERING & TESTING, INC. — Geotechnical & Material Testing Engineers
LOG OF TEST BORING R-B6
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
Job No. 487.18 Date 2/19/24
PLATE

C1 BORING LOGS - R-B6
SCALE N.T.S.

LOG OF TEST BORING R-B6

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

DATE 2/13/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
35	11					42			
40	12	(no free water encountered)							
		Bottom of hole = 40'							

GEO-ENGINEERING & TESTING, INC. — Geotechnical & Material Testing Engineers
LOG OF TEST BORING R-B6 (continued)
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
Job No. 487.18 Date 2/19/24
PLATE (cont'd)

C2 BORING LOGS - R-B6
SCALE N.T.S.

LOG OF TEST BORING R-B7

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

DATE 12/7/23 to 12/8/23
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - dense, moist				45			
	1.2	LIGHT BROWN-WHITE CORALLINE LIMESTONE - hard				75/11"			
6		weak at 3'-4.5'				40			
	2.4	moderately hard from 4.5'				79			
						75			
						68			
12	3.6					66			
	4.8					50			
18		hard from 17'				10/0"			
	6								
24	7.2					50/6"			
	8.4					100			
30									
	9.6					60/3"			
	10.8	(no free water encountered)				62/3"			
		Bottom of hole = 35.5'							

GEO-ENGINEERING & TESTING, INC. — Geotechnical & Material Testing Engineers
LOG OF TEST BORING R-B7
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
Job No. 487.18 Date 12/11/23
PLATE

C3 BORING LOGS - R-B7
SCALE N.T.S.

LOG OF TEST BORING R-B8

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

DATE 2/13/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	DARK BROWN SILTY LIMESTONE GRAVEL WITH SILT AND SAND (GM) - very loose, moist				71			
	1	LIGHT BROWN-WHITE CORALLINE LIMESTONE - moderately hard							
5		weak from 4'				41			
	2	moderately hard from 5.5'				86			
						50			
						80			
10	3					71			
	4					65			
15									
	5	hard from 17'				27/0"			
20	6								
	7	moderately hard from 23'				99			
25									
	8					58			
30	9								
35	10					58			

GEO-ENGINEERING & TESTING, INC. — Geotechnical & Material Testing Engineers
LOG OF TEST BORING R-B8
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
Job No. 487.18 Date 2/19/24
PLATE

C5 BORING LOGS - R-B8
SCALE N.T.S.

LOG OF TEST BORING R-B8

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

DATE 2/13/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
35	11	weak from 38'				44			
40	12	(no free water encountered)							
		Bottom of hole = 40'							

GEO-ENGINEERING & TESTING, INC. — Geotechnical & Material Testing Engineers
LOG OF TEST BORING R-B8 (continued)
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
Job No. 487.18 Date 2/19/24
PLATE (cont'd)

A1 BORING LOGS - R-B8
SCALE N.T.S.

LOG OF TEST BORING R-B9

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

DATE 2/14/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	DARK BROWN ELASTIC SILT WITH SAND AND GRAVEL (GM) - medium dense, moist				18			
	1.2	LIGHT BROWN-WHITE CORALLINE LIMESTONE - very weak				60			
6		moderately hard from 2.5'				43			
	2.4	weak from 4'				48			
		moderately hard from 7'				54			
						51			
12	3.6	hard from 11'				34/2"			
	4.8								
18		moderately hard from 17'				72			
	6								
		hard from 22'				27/3"			
24	7.2								
	8.4					41/4"			
30									
	9.6	very weak from 32'				28			
		(no free water encountered)							
		Bottom of hole = 35'							

GEO-ENGINEERING & TESTING, INC. — Geotechnical & Material Testing Engineers
LOG OF TEST BORING R-B9
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
Job No. 487.18 Date 2/19/24
PLATE

A2 BORING LOGS - R-B9
SCALE N.T.S.

LOG OF TEST BORING R-B10

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

DATE 2/9/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	DARK BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - medium dense, moist				25			
	1.2	LIGHT BROWN-WHITE CORALLINE LIMESTONE - weak				44			
6		very weak from 5.5'				30			
	2.4	moderately hard from 8.5'				25			
		weak from 10'				28			
						59			
12	3.6	hard from 12'				39			
	4.8					27/1"			
18		moderately hard from 18'							
	6					88			
24	7.2	weak from 23'				42			
	8.4								
30		moderately hard from 28'				57			
	9.6								
		(no free water encountered)				50			
		Bottom of hole = 35'							

GEO-ENGINEERING & TESTING, INC. — Geotechnical & Material Testing Engineers
LOG OF TEST BORING R-B10
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
Job No. 487.18 Date 2/12/24
PLATE

A3 BORING LOGS - R-B10
SCALE N.T.S.

LOG OF TEST BORING R-B11

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

DATE 12/1/23
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	REDDISH BROWN-WHITE ELASTIC SILT (MH) - soft, moist				2			
	1.2	medium stiff from 1.5'				5			SA
6						4			LL=49; PI=19
	2.4	LIGHT BROWN-WHITE CORALLINE LIMESTONE - weak				31			
		hard from 6'				44/5"			SA
		moderately hard at 7.5'-9'				71			
12	3.6					14/0"			
	4.8					43/5"			
18									
	6					60/4"			
24	7.2					20/0"			
	8.4					15/0"			
30									
	9.6	moderately hard at 32'-33.5'				72			
	10.8	LIGHT BROWN-WHITE CORALLINE LIMESTONE - hard				60/5"			
		(no free water encountered)							
		Bottom of hole = 35'							

GEO-ENGINEERING & TESTING, INC. — Geotechnical & Material Testing Engineers
LOG OF TEST BORING R-B11
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
Job No. 487.18 Date 12/6/23
PLATE

A5 BORING LOGS - R-B11
SCALE N.T.S.

NAVFAC

STATE OF TEXAS — JENNIFER M. HAYNES — 90167 — LICENSED PROFESSIONAL ENGINEER — 1/20/2026
TEXAS REGISTERED ENGINEERING FIRM F-2966 SEAL

Jacobs / BURNS MCDONNELL
JACOBS/B&M, A JOINT VENTURE
1100 NORTH GLEBE ROAD
SUITE 500
ARLINGTON, VA 22201
A/E Contract No./N62742-2D-0002
A/E Task Order No./N6274221F0315
JCG NO./23430603
A/E INFO

APPROVED
FOR COMMANDER NAVFAC DATE 02/02/2026

ACTIVITY
AFIMSC APPROVAL PER NAVFAC SAT-TO CHECKLIST

SATISFACTORY TO DATE 31 DEC 2025

DES:	JMH	DRW:	SMC	REV:	ATM
PM/DM					KKK
BRANCH MANAGER					SMK
CHIEF ENG/ARCH					SMK
FIRE PROTECTION					RO

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVFAC PACIFIC
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ~ PACIFIC
JOINT REGION MARIANAS (JRM)
ANDERSEN AIR FORCE BASE
GUAM

FY24 AJJY183012 (P-012),
PDI: NORTH AIRCRAFT PARKING RAMP

BORING LOGS

SCALE: AS SHOWN
EPROJECTS NO.: 1665555
CONSTR CONTROL NO.
NAVFAC DRAWING NO. 17361670
SHEET 47 OF 377

BB111

REDESIGN FINAL SUBMITTAL

FILE NAME: U:\BLDG\NAVFAC Pacific\JJ3430603 – P-012 North Aircraft Parking Ramp\700 Working Documents\740 Sheets\740.01 Civil\P012_1665555_BB111.dwg
LAYOUT NAME: BB111
PLOTTED: 01/12/2026 7:25pm
USER: CameronS

IF SHEET IS LESS THAN 22" X 34" REDUCED PRINT. USE GRAPHIC SCALES

LOG OF TEST BORING R-B12

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

DATE 12/4/23
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (mm/R)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	LIGHT BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - dense, moist				34			
	1.2	LIGHT BROWN-WHITE CORALLINE LIMESTONE - very weak hard from 3' moderately hard at 4.5'-6'				27 43/5" 60			
6						41/4"			
	2.4	moderately hard at 7.5'-9'				65			
						41/5"			
12	3.6					63/5"			
	4.8								
18						67/11"			
	6								
24	7.2					88/11"			
	8.4					41/4"			
30									
	9.6	very weak from 32'				29			
36	10.8	moderately hard from 35'				62			
		(no free water encountered)							
		Bottom of hole = 36.5'							

GEO-ENGINEERING & TESTING, INC.	LOG OF TEST BORING R-B12	PLATE
Geotechnical & Material Testing Engineers	FY24 MCAF PROJECT AJJY183012 (P-012) NORTH AIRCRAFT PARKING RAMP	
Job No. 487.18 Date 12/11/23	ANDERSEN AIR FORCE BASE, GUAM	

C1 BORING LOGS - R-B12
SCALE N.T.S.

LOG OF TEST BORING R-B13

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

DATE 2/12/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (mm/R)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	LIGHT BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - medium dense, moist				11			
	1.2	DARK BROWN ELASTIC SILT WITH SAND (MH) - medium stiff, moist very soft from 4'				5 1			
6		soft from 6'				1			
	2.4	medium stiff from 7.5'				4			
		stiff from 9'				5			
12	3.6					10			
		soft from 12'				4			
	4.8	LIGHT BROWN-WHITE CORALLINE LIMESTONE - hard							
18						34/1"			
	6								
24	7.2					20/0"			
	8.4					30/0.5"			
30									
	9.6					30/1"			
		(no free water encountered)							
		Bottom of hole = 35'							

GEO-ENGINEERING & TESTING, INC.	LOG OF TEST BORING R-B13	PLATE
Geotechnical & Material Testing Engineers	FY24 MCAF PROJECT AJJY183012 (P-012) NORTH AIRCRAFT PARKING RAMP	
Job No. 487.18 Date 2/19/24	ANDERSEN AIR FORCE BASE, GUAM	

C2 BORING LOGS - R-B13
SCALE N.T.S.

LOG OF TEST BORING R-B14

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

DATE 2/9/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (mm/R)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	DARK BROWN ELASTIC SILT (MH) - stiff, moist				107			
	1.2	LIGHT BROWN-WHITE CORALLINE LIMESTONE - hard DARK BROWN-WHITE SILTY GRAVEL WITH SAND (GM) - very loose, moist				17			
6		LIGHT BROWN-WHITE CORALLINE LIMESTONE - very weak weak from 7'				17			
	2.4	moderately hard from 8.5'				37			
						80			
12	3.6					82			
	4.8								
18						74			
	6								
24	7.2					80			
	8.4					56			
30									
	9.6					50			
		(no free water encountered)				50			
		Bottom of hole = 35'							

GEO-ENGINEERING & TESTING, INC.	LOG OF TEST BORING R-B14	PLATE
Geotechnical & Material Testing Engineers	FY24 MCAF PROJECT AJJY183012 (P-012) NORTH AIRCRAFT PARKING RAMP	
Job No. 487.18 Date 2/12/24	ANDERSEN AIR FORCE BASE, GUAM	

C3 BORING LOGS - R-B14
SCALE N.T.S.

LOG OF TEST BORING R-B15

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

DATE 12/4/23 to 12/5/23
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (mm/R)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - medium dense, moist very dense from 1.5'				17 31/6"			
	1.2	LIGHT BROWN-WHITE CORALLINE LIMESTONE - hard				34/5" 50/3"			
6						15/0"			
	2.4					22/0"			
						25/0"			
12	3.6	moderately hard at 12'-13.5'				51			
	4.8								
18						62/4"			
	6								
24	7.2	weak from 22'				31			
	8.4					44			
30									
	9.6	hard from 32'				63/11"			
36	10.8					72/7"			
		(no free water encountered)							
		Bottom of hole = 36'							

GEO-ENGINEERING & TESTING, INC.	LOG OF TEST BORING R-B15	PLATE
Geotechnical & Material Testing Engineers	FY24 MCAF PROJECT AJJY183012 (P-012) NORTH AIRCRAFT PARKING RAMP	
Job No. 487.18 Date 12/11/23	ANDERSEN AIR FORCE BASE, GUAM	

C5 BORING LOGS - R-B15
SCALE N.T.S.

LOG OF TEST BORING R-B16

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

DATE 2/20/24
EQUIPMENT 6" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (mm/R)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - medium dense, moist				14			
	1.2	LIGHT BROWN-WHITE CORALLINE LIMESTONE - moderately hard hard from 4'				73 44/5"			
6						44/5"			
	2.4					41/0"			
						44/5"			
12	3.6					44/0"			
	4.8								
18						44/0"			
	6								
24	7.2					44/0"			
	8.4					44/5"			
30									
	9.6	moderataly hard from 31'				82			
		(no free water encountered)							
		Bottom of hole = 35'							

GEO-ENGINEERING & TESTING, INC.	LOG OF TEST BORING R-B16	PLATE
Geotechnical & Material Testing Engineers	FY24 MCAF PROJECT AJJY183012 (P-012) NORTH AIRCRAFT PARKING RAMP	
Job No. 487.18 Date 2/27/24	ANDERSEN AIR FORCE BASE, GUAM	

A1 BORING LOGS - R-B16
SCALE N.T.S.

LOG OF TEST BORING R-B17

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

DATE 12/11/23 to 12/13/23
EQUIPMENT 6" Dia. Hollow-Stem Auger
ELEVATION 487.71

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (mm/R)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - medium dense, moist dense from 1.5'				13 39			
	1.2	LIGHT BROWN-WHITE CORALLINE LIMESTONE - moderately hard hard from 4.5' weak from 6'				76 34/4" 47			
6						36			
	2.4	hard from 9'				74/9"			
12	3.6					60/3"			
	4.8								
18						80/3"			
	6								
24	7.2	weak at 22'-23.5'				43			
	8.4					21/0"			
30									
	9.6	moderately hard at 32'-33.5'				50			
36	10.8					69/11"			
		(no free water encountered)							
		Bottom of hole = 36'							

GEO-ENGINEERING & TESTING, INC.	LOG OF TEST BORING R-B17	PLATE
Geotechnical & Material Testing Engineers	FY24 MCAF PROJECT AJJY183012 (P-012) NORTH AIRCRAFT PARKING RAMP	
Job No. 487.18 Date 12/15/23	ANDERSEN AIR FORCE BASE, GUAM	

A2 BORING LOGS - R-B17
SCALE N.T.S.

LOG OF TEST BORING R-B18

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

DATE 2/16/24 to 2/20/24
EQUIPMENT 6" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (mm/R)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - loose, moist				8			
	1.2	LIGHT BROWN-WHITE CORALLINE LIMESTONE - very weak				16 24			
6						17			
	2.4	hard from 7'				16 29			
						41/5"			
12	3.6					20/0"			
	4.8								
18						41/0"			
	6								
24	7.2					20/0"			
	8.4					20/0"			
30									
	9.6					41/4"			
						48/5"			
		(no free water encountered)							
		Bottom of hole = 35'							

GEO-ENGINEERING & TESTING, INC.	LOG OF TEST BORING R-B18	PLATE
Geotechnical & Material Testing Engineers	FY24 MCAF PROJECT AJJY183012 (P-012) NORTH AIRCRAFT PARKING RAMP	
Job No. 487.18 Date 2/27/24	ANDERSEN AIR FORCE BASE, GUAM	

A3 BORING LOGS - R-B18
SCALE N.T.S.

LOG OF TEST BORING R-B19

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

DATE 2/16/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (mm/R)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	BROWN-WHITE SILITY LIMESTONE GRAVEL WITH SAND (GM) - loose, moist				7			
	1.2	LIGHT BROWN-WHITE CORALLINE LIMESTONE - very weak				15			
6		weak from 5'				19 46			
	2.4	moderately hard from 7'				44			
		hard from 9'				65			
12	3.6					69			
	4.8					41/5" 41/0"			
18						41/0"			
	6								
24	7.2					20/0"			
	8.4					20/0"			
30									
	9.6					14/0"			
						41/0"			
		(no free water encountered)							
		Bottom of hole = 35'							

GEO-ENGINEERING & TESTING, INC.	LOG OF TEST BORING R-B19	PLATE
Geotechnical & Material Testing Engineers	FY24 MCAF PROJECT AJJY183012 (P-012) NORTH AIRCRAFT PARKING RAMP	
Job No. 487.18 Date 2/23/24	ANDERSEN AIR FORCE BASE, GUAM	

A5 BORING LOGS - R-B19
SCALE N.T.S.

NAVFAC

STATE OF TEXAS
JENNIFER M. HAYNES
90167
LICENSED
PROFESSIONAL ENGINEER
1/20/2026
TEXAS REGISTERED ENGINEERING FIRM F-2966 SEAL

Jacobs / BURNS MCDONNELL
JACOBS/B&M, A JOINT VENTURE
1100 NORTH GLEBE ROAD
SUITE 500
ARLINGTON, VA 22201

A/E Contract No. N62742-20-D-0002
A/E Task Order No. N6274221F0315
JCG NO. 03430603
A/E INFO

APPROVED
FOR COMMANDER NAVFAC DATE 02/02/2026

ACTIVITY
AFIMSC APPROVAL PER NAVFAC SAT-TO CHECKLIST

SATISFACTORY TO DATE 31 DEC 2025

DES:	JMH	DRW:	SMC	REV:	ATM
PM/DM					KKK
BRANCH MANAGER					SMK
CHIEF ENG/ARCH					SMK
FIRE PROTECTION					RO

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVFAC PACIFIC
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ~ PACIFIC
JOINT REGION MARIANAS (JRM)
ANDERSEN AIR FORCE BASE
GUAM

FY24 AJJY183012 (P-012),
PDI: NORTH AIRCRAFT PARKING RAMP

BORING LOGS

SCALE: AS SHOWN
EPROJECTS NO.: 1665555
CONSTR CONTROL NO.
NAVFAC DRAWING NO. 17361671
SHEET 48 OF 377

BB112

REDESIGN FINAL SUBMITTAL

IF SHEET IS LESS THAN 22" X 34" REDUCED PRINT. USE GRAPHIC SCALES

FILE NAME: U:\BLDG\NAVFAC Pacific\JJ3430603 - P-012 North Aircraft Parking Ramp\700 Working Documents\740 Sheets\740.01 Civil\P012_1665555_BB112.dwg
LAYOUT NAME: BB112
PLOTTED: 01/12/2026 7:25pm
USER: CamenoS

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING R-B20

DATE 2/15/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	SPT (Blows/ft.)*
0	0	REDDISH BROWN ELASTIC SILT (MH) - medium stiff, moist	5
		soft from 3'	7
6	1.2	very soft from 5'	4
	2.4		1
12	3.6		1
	4.8		1
18	6		1
24	7.2		1
30	8.4	LIGHT BROWN-WHITE CORALLINE LIMESTONE - weak	37
	9.6	very weak from 32'	16
		(no free water encountered)	
		Bottom of hole = 35'	

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 2/19/24
LOG OF TEST BORING R-B20
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
PLATE

C1 BORING LOGS - R-B20
SCALE N.T.S.

LOG OF TEST BORING R-B21

DATE 2/14/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	SPT (Blows/ft.)*
0	0	DARK BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SILT AND SAND (GM) - dense, moist	31
	1.2	LIGHT BROWN-WHITE CORALLINE LIMESTONE - moderately hard	54
6		hard, with silt pocket from 3'	27/2"
	2.4		20/1"
		weak from 8.5'	35
12	3.6	moderately hard from 10'	58
	4.8		57
18		hard from 17'	20/1"
	7.2	moderately hard from 22'	53
30	8.4		65
	9.6		61
		(no free water encountered)	
		Bottom of hole = 35'	

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 2/19/24
LOG OF TEST BORING R-B21
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
PLATE

C2 BORING LOGS - R-B21
SCALE N.T.S.

LOG OF TEST BORING R-B22

DATE 2/15/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	SPT (Blows/ft.)*
0	0	DARK BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SILT AND SAND (GM) - medium dense, moist	25
	1	LIGHT BROWN-WHITE CORALLINE LIMESTONE - very weak	36
5		weak from 2.5'	41
	2	moderately hard at 5.5'-7'	55
		hard from 8'	30
10	3		75/7"
		weak from 12'	34
15	4		
	5	hard from 17'	20/1"
20	6		27/0"
25	7		
	8		30/0"
30	9	(no free water encountered)	
		Bottom of hole = 30'	

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 2/19/24
LOG OF TEST BORING R-B22
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
PLATE

C3 BORING LOGS - R-B22
SCALE N.T.S.

Notes:
Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 63.5 kg (140 lb) hammer free falling 76 cm (30 in.)/blow

LOG OF TEST PIT R-TP-1

DATE 4/4/24
EQUIPMENT Backhoe
ELEVATION 485.58'

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	SPT (Blows/ft.)**
0	0	REDDISH BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND - medium dense, moist	
	0.2	LIGHT BROWN-WHITE CORALLINE LIMESTONE - moderately hard	
1	0.4		
	0.6		
2			
	0.8	hard, refusal to backhoe digging at 2.75'	
		(no free water encountered)	
		Bottom of hole = 2.75'	
		688294.83 N	
		385634.4 E	

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 4/8/24
LOG OF TEST PIT R-TP-1
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
PLATE

C5 BORING LOGS - R-TP-1
SCALE N.T.S.

Notes:
Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 63.5 kg (140 lb) hammer free falling 76 cm (30 in.)/blow

LOG OF TEST PIT R-TP-2

DATE 4/4/24
EQUIPMENT Backhoe
ELEVATION 486.57'

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	SPT (Blows/ft.)**
0	0	REDDISH BROWN SILT (ML) - medium stiff, moist	
	0.4	LIGHT BROWN-WHITE CORALLINE LIMESTONE - moderately hard	
2			
	0.8		
4	1.2		
	1.6		
6			
	2	hard, refusal to backhoe digging at 6.7'	
		(no free water encountered)	
		Bottom of hole = 6.7'	
		688662.08 N	
		385681.09 E	

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 4/8/24
LOG OF TEST PIT R-TP-2
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
PLATE

A1 BORING LOGS - R-TP-2
SCALE N.T.S.

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING S-B1

DATE 2/8/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	SPT (Blows/ft.)*
0	0	DARK BROWN ELASTIC SILT (MH) - stiff, moist	63
	1	LIGHT BROWN-WHITE CORALLINE LIMESTONE - moderately hard	20/3"
5		hard from 1.5'	44/2"
	2	moderately hard from 4.5'	74
		hard from 6'	111/10"
10	3		65/2"
	4	moderately hard from 12'	67
15	5	hard from 17'	65/1"
20	6	(no free water encountered)	
		Bottom of hole = 20'	

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 2/12/24
LOG OF TEST BORING S-B1
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
PLATE

A2 BORING LOGS - S-B1
SCALE N.T.S.

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (75 cm.)/blow

LOG OF TEST BORING T-B1

DATE 11/29/23
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	SPT (Blows/ft.)*
0	0	BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - medium dense, moist	17
	1	LIGHT BROWN-WHITE CORALLINE LIMESTONE - very weak	32
5		weak from 1.5'	41/3"
	2	hard from 3'	67/5"
		weak from 6'	41
10	3		44
	4	moderately hard at 12'-13.5'	50
15	5		65
	6	moderately hard from 22'	44
20	7		61
25		hard at 25'	63/3"
		(no free water encountered)	
		Bottom of hole = 25.25'	

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 11/29/23
LOG OF TEST BORING T-B1
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
PLATE

A3 BORING LOGS - T-B1
SCALE N.T.S.

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING U-B1

DATE 11/28/23
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	SPT (Blows/ft.)*
0	0	BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - medium dense, moist	29
	1	LIGHT BROWN-WHITE CORALLINE LIMESTONE - weak	44
5		hard from 3'	10/0"
	2	moderately hard at 4.5'-6'	80
			86/11"
10	3	moderately hard at 9'-12'	17/1"
			78
15	4		16/0"
	5		53/2"
20	6	(no free water encountered)	
		Bottom of hole = 20'	

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 11/29/23
LOG OF TEST BORING U-B1
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
PLATE

A5 BORING LOGS - U-B1
SCALE N.T.S.

NAVFAC

STATE OF TEXAS
JENNIFER M. HAYNES
90167
LICENSED
PROFESSIONAL ENGINEER
1/20/2026
TEXAS REGISTERED ENGINEERING FIRM F-2966 SEAL

Jacobs / BURNS MCDONNELL
JACOBS/B&M, A JOINT VENTURE
1100 NORTH GLEBE ROAD
SUITE 500
ARLINGTON, VA 22201
A/E Contract No. N62742-20-D-0002
A/E Task Order No. N6274221F0315
JCG NO. 03430603
A/E INFO

APPROVED
FOR COMMANDER NAVFAC DATE 02/02/2026

ACTIVITY
AFIMSC APPROVAL PER NAVFAC SAT-TO CHECKLIST

SATISFACTORY TO DATE 31 DEC 2025

DES:	JMH	DRW:	SMC	REV:	ATM
PM/DM					KKK
BRANCH MANAGER					SMK
CHIEF ENG/ARCH					SMK
FIRE PROTECTION					RO

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVFAC PACIFIC
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ~ PACIFIC
JOINT REGION MARIANAS (JRM)
ANDERSEN AIR FORCE BASE
GUAM
FY24 AJJY183012 (P-012),
PDI: NORTH AIRCRAFT PARKING RAMP
BORING LOGS

SCALE: AS SHOWN
EPROJECTS NO.: 1665555
CONSTR CONTROL NO.
NAVFAC DRAWING NO. 17361672
SHEET 49 OF 377

BB113

REDESIGN FINAL SUBMITTAL

FILE NAME: U:\BLDG\NAVFAC Pacific\JO3430603 – P-012 North Aircraft Parking Ramp\700 Working Documents\740 Sheets\740.01 Civil\P012_1665555_BB113.dwg
LAYOUT NAME: BB113
PLOTTED: 01/12/2026 7:26pm
USER: CamenS

IF SHEET IS LESS THAN 22" X 34" REDUCED PRINT. USE GRAPHIC SCALES

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING U-B2

DATE 11/28/23
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	CASING TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - medium dense, moist				21			DS
		LIGHT BROWN-WHITE CORALLINE LIMESTONE - very weak moderately hard from 1.5' hard from 3'				52			
5	1					42/4"			
						42/5"			
	2	very weak from 6'				27			
						42			
10	3	moderately hard from 9'				71			
	4	hard from 12'				44/5"			
15									
	5					92/9"			
20	6	(no free water encountered)							
		Bottom of hole = 20'							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 11/29/23

LOG OF TEST BORING U-B2
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM

PLATE

C1 BORING LOGS - U-B2
SCALE N.T.S.

LOG OF TEST BORING V-B1

DATE 11/24/23
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	CASING TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	BROWN-WHITE SILTY GRAVEL WITH SAND (GM) - medium dense, moist				27			SA
	1	LIGHT BROWN-WHITE CORALLINE LIMESTONE - hard				42/5" 63/5"			SA
5		weak at 4.5'-6'				46			
	2					42/4"			
						62/4"			
10	3					65/5"			
	4					116			
15									
	5					10/0"			
20	6								
	7					66/4"			
25		very weak from 25'				22			
	8								
30	9								
	10	weak from 32'							
		(no free water encountered)				48			
		Bottom of hole = 33.5'							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 11/27/23

LOG OF TEST BORING V-B1
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM

PLATE

C2 BORING LOGS - V-B1
SCALE N.T.S.

LOG OF TEST BORING V-B2

DATE 11/24/23
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	CASING TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - medium dense, moist				26			SA
		LIGHT BROWN-WHITE CORALLINE LIMESTONE - very weak weak from 3'				26			
5	1	hard from 4.5'				33			
	2					67/11" 58/6"			
10	3					63/5"			
	4	weak at 12'-15'				42			
15	5					50/2"			
20	6								
	7					45/5"			
25	8	moderately hard from 25'				54			
		(no free water encountered)							
		Bottom of hole = 26.5'							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 11/29/23

LOG OF TEST BORING V-B2
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM

PLATE

C3 BORING LOGS - V-B2
SCALE N.T.S.

LOG OF TEST BORING V-B3

DATE 11/27/23
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	CASING TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - dense, moist				35			SA
		LIGHT BROWN-WHITE CORALLINE LIMESTONE - moderately hard				52			
6	1.2	hard at 4.5'-6'				72 44/5"			SA
		moderately hard from 6'				78			
	2.4	hard from 7.5'				85/8"			
12						20/0"			
	3.6	moderately hard at 12'-13'				60			
18	4.8					60/5"			
	6								
24	7.2	very weak at 22'-24'				13			DS
		weak from 25'				32			
30	8.4								
	9.6	moderately hard from 32'							
		(no free water encountered)				63			
		Bottom of hole = 33.5'							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 11/29/23

LOG OF TEST BORING V-B3
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM

PLATE

C5 BORING LOGS - V-B3
SCALE N.T.S.

LOG OF TEST BORING V-B4

DATE 11/20/23
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	CASING TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	REDDISH BROWN-WHITE SANDY ELASTIC SILT WITH GRAVEL (MH) - stiff, moist				8			SA LL=57; PI=17
		REDDISH BROWN-LIGHT BROWN-WHITE CORALLINE LIMESTONE - moderately hard light brown-white, hard from 3'				66 104/ 10.5" 68/4.5"			
5	1				3.5	10/0"			
	2				5.63	50/2.5"			
10					2.75				
	3				0.87				
					0.5				
	4	moderately hard from 12'			0.5				
15					0.58				
	5				0.28	75			
					0.27				
20	6	hard from 17'			0.45				
					0.42				
	7				1.72	84/10"			
25					0.45				
	8				1.25				
					0.83	34/3.5"			
					1.0				
		moderately hard from 25'			0.43				
					0.68	58			
		(no free water encountered)							
		Bottom of hole = 26.5'							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 11/27/23

LOG OF TEST BORING V-B4
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM

PLATE

A1 BORING LOGS - V-B4
SCALE N.T.S.

LOG OF TEST BORING V-B5

DATE 11/21/23
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	CASING TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	BROWN-WHITE SILTY GRAVEL WITH SAND (GM) - very dense, moist				76			
	1	LIGHT BROWN-WHITE CORALLINE LIMESTONE - hard moderately hard from 4.5'				62 44/3"			
5						61			
	2	hard from 6'				54/6" 65/5"			
10	3					97/11"			
	4	very weak from 12'				26			DS
15									
	5	hard from 17'				44/5"			
20	6								
	7	very weak from 22'				29			
25		hard from 25'				42/5"			
		(no free water encountered)							
		Bottom of hole = 26'							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 11/27/23

LOG OF TEST BORING V-B5
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM

PLATE

A2 BORING LOGS - V-B5
SCALE N.T.S.

LOG OF TEST BORING V-B6

DATE 3/13/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION 488.27'

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	CASING TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	REDDISH BROWN ELASTIC SILT (MH) - medium stiff, moist				25			
		LIGHT BROWN-WHITE CORALLINE LIMESTONE - very weak moderately hard from 2'				65			
	1.2					56			
6						67			
	2.4					73			
		weak from 9'				74			
12	3.6					48			
	4.8					31			
18									
	6					35			
24	7.2					49			
	8.4	moderately hard from 27'				63			
30									
	9.6	hard from 32'				44/4"			
		(no free water encountered)							
		Bottom of hole = 35'							
		688347.93 N 386455.33 E							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 4/5/24

LOG OF TEST BORING V-B6
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM

PLATE

A3 BORING LOGS - V-B6
SCALE N.T.S.

LOG OF TEST BORING V-B7

DATE 1/2/24 to 1/3/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	CASING TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	LIGHT BROWN-WHITE ELASTIC SILT WITH SAND (MH) - stiff, moist				14			
		LIGHT BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - medium dense, moist				26			
6	1.2					41			
		LIGHT BROWN-WHITE CORALLINE LIMESTONE - weak moderately hard from 5.5' hard from 7'				52			
12	2.4					10/0"			
						15/0"			
	3.6					30/1"			
18	4.8					15/0"			
	6								
24	7.2					80/3"			
	8.4					80/1"			
30									
	9.6					80/2"			
		(no free water encountered)							
		Bottom of hole = 35'							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 1/11/24

LOG OF TEST BORING V-B7
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM

PLATE

A5 BORING LOGS - V-B7
SCALE N.T.S.

NAVFAC

JENNIFER M. HAYNES
90167
LICENSED PROFESSIONAL ENGINEER
1/20/2026
TEXAS REGISTERED ENGINEERING FIRM F-2966 SEAL

Jacobs / BURNS MCDONNELL
JACOBS/BBM, A JOINT VENTURE
1100 NORTH GLEBE ROAD
SUITE 500
ARLINGTON, VA 22201

A/E Contract No.:N62742-2D-0002
A/E Task Order No.:N6274221F0315
JCG NO.:C3430603
A/E INFO

APPROVED
FOR COMMANDER NAVFAC DATE 02/02/2026

ACTIVITY
AFIMSC APPROVAL PER NAVFAC SAT-TO CHECKLIST

SATISFACTORY TO DATE 31 DEC 2025

DES:	JMH	DRW:	SMC	REV:	ATM
PM/DM					KKK
BRANCH MANAGER					SMK
CHIEF ENG/ARCH					SMK
FIRE PROTECTION					RO

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVFAC PACIFIC
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ~ PACIFIC
JOINT REGION MARIANAS (JRM)
ANDERSEN AIR FORCE BASE
GUAM

FY24 AJJY183012 (P-012),
PDI: NORTH AIRCRAFT PARKING RAMP

BORING LOGS

SCALE: AS SHOWN
EPROJECTS NO.: 1665555
CONSTR CONTROL NO.
NAVFAC DRAWING NO. 17361673
SHEET 50 OF 377

BB114

REDESIGN FINAL SUBMITTAL

IF SHEET IS LESS THAN 22" X 34" REDUCED PRINT. USE GRAPHIC SCALES

FILE NAME: U:\BLDG\NAVFAC Pacific\J3430603 – P-012 North Aircraft Parking Ramp\700 Working Documents\740 Sheets\740.01 Civil\P012_1665555_BB114.dwg
LAYOUT NAME: BB114
PLOTTED: 01/12/2026 7:26pm
USER: CameronS

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING V-B8

DATE 3/13/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION 485.81'

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	SPT (Blows/ft.)*
0	0	LIGHT BROWN-REDDISH BROWN ELASTIC SILT WITH GRAVEL (MH) - soft, moist very soft at 1.5'-3'	3
	1		2
5		medium stiff from 4.5'	3
	2	stiff from 6'	5
			11
10	3		10
			10
	4	medium stiff from 12'	6
15			
	5	soft from 17'	
			3
20	6		
	7	very soft from 22'	2
25			
	8		
			1
30	9		
			1
35	10		

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 4/5/24
LOG OF TEST BORING V-B8
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
PLATE

C1 BORING LOGS - V-B8
SCALE N.T.S.

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING V-B8

DATE 3/13/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION 485.81'

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	SPT (Blows/ft.)*
35	11		
			2
40	12		
		LIGHT BROWN-WHITE CORALLINE LIMESTONE - very weak	10
	13	(no free water encountered)	
		Bottom of hole = 43.5'	
		688458.99 N	
		386689.58 E	

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 4/5/24
LOG OF TEST BORING V-B8 (continued)
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
PLATE (cont'd)

C2 BORING LOGS - V-B8
SCALE N.T.S.

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING V-B9

DATE 1/3/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION 485.98

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	SPT (Blows/ft.)*
0	0	REDDISH BROWN-LIGHT BROWN ELASTIC SILT (MH) - very soft, moist medium stiff at 2'-3'	1
			7
1.2			1
6			1
2.4			3
			2
3.6			
12			0
4.8			
18	6		1
		LIGHT BROWN-WHITE CORALLINE LIMESTONE - hard	
7.2			80/2"
24			
8.4			80/2"
30			
9.6			70/2"
		(no free water encountered)	
		Bottom of hole = 35'	

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 1/11/24
LOG OF TEST BORING V-B9
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
PLATE

C3 BORING LOGS - V-B9
SCALE N.T.S.

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING V-B10

DATE 1/5/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION 488.56

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	REDDISH BROWN-LIGHT BROWN-WHITE CORALLINE LIMESTONE - very weak weak at 1.5'-3'	21			
	1		37	7.1	102	SA
5			16			
	2	weak from 6' hard from 7'	48			
			60/6"			
10	3					
		very weak from 12'	16			
	4					
15						
	5		26			
20	6					
		moderately hard from 22'	78			
25	7					
	8	weak from 27'	48			
30	9	(no free water encountered)				
		Bottom of hole = 30'				

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 1/12/24
LOG OF TEST BORING V-B10
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
PLATE

C5 BORING LOGS - V-B10
SCALE N.T.S.

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING V-B11

DATE 1/8/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	SPT (Blows/ft.)*
0	0	REDDISH BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - loose, moist	8
1.2		REDDISH BROWN ELASTIC SILT (MH) - very soft, moist	1
6		medium stiff from 3'	6
		REDDISH BROWN-WHITE SILTY LIMESTONE GRAVEL (GM) loose, moist	8
2.4		REDDISH BROWN ELASTIC SILT (MH) - very soft	1
		medium stiff from 7.5'	5
12	3.6		7
		REDDISH BROWN-WHITE SILTY LIMESTONE GRAVEL (GM) - very dense, moist	41/10"
4.8		LIGHT BROWN-WHITE CORALLINE LIMESTONE - moderately hard	
18	6		75
		weak from 22'	35
24	7.2		
8.4			31
30	9.6	hard from 32'	42/4"
		(no free water encountered)	
		Bottom of hole = 35'	

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 1/12/24
LOG OF TEST BORING V-B11
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
PLATE

A1 BORING LOGS - V-B11
SCALE N.T.S.

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING V-B12

DATE 1/8/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION 487.86

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	BROWN-WHITE CCRALLINE LIMESTONE - very weak	10			
1.2			14	8.2	104	SA
6			23			
2.4			27			
		weak from 9'	44			
12	3.6					
			42			
4.8		moderately hard from 14'	53			
18			61			
	6		71			
			79			
24	7.2					
		weak from 25'	35			
8.4						
30			41			
9.6		very weak from 32'	24			
		(no free water encountered)				
		Bottom of hole = 35'				

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 1/12/24
LOG OF TEST BORING V-B12
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
PLATE

A2 BORING LOGS - V-B12
SCALE N.T.S.

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING V-B13

DATE 1/5/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	SPT (Blows/ft.)*
0	0	LIGHT BROWN-WHITE CORALLINE LIMESTONE - very weak weak from 2.5'	29
1.2			39
6			34
			35
2.4		hard from 7'	51/5"
			44/8"
12	3.6	weak from 12'	39
4.8			
18	6		44
		very weak from 22'	25
24	7.2		
8.4		weak from 27'	44
30	9.6	hard from 32'	107
		(no free water encountered)	
		Bottom of hole = 35'	

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 1/11/24
LOG OF TEST BORING V-B13
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
PLATE

A3 BORING LOGS - V-B13
SCALE N.T.S.

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING V-B14

DATE 1/5/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	SPT (Blows/ft.)*
0	0	LIGHT BROWN-WHITE CORALLINE LIMESTONE - weak	43
1.2			31
6			31
			41
2.4		moderately hard at 7'-8'	56
		moderately hard from 10'	48
12	3.6		57
4.8		very weak from 16.5'	24
18	6		
		weak from 21'	50
24	7.2		
8.4			40
30	9.6		44
		(no free water encountered)	
		Bottom of hole = 35'	

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 1/11/24
LOG OF TEST BORING V-B14
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
PLATE

A5 BORING LOGS - V-B14
SCALE N.T.S.

NAVFAC

STATE OF TEXAS
JENNIFER M. HAYNES
90167
LICENSED
PROFESSIONAL ENGINEER
1/20/2026
TEXAS REGISTERED ENGINEERING FIRM F-2966 SEAL

Jacobs / BURNS McDONNELL
JACOBS/B&M, A JOINT VENTURE
1100 NORTH GLEBE ROAD
SUITE 500
ARLINGTON, VA 22201

A/E Contract No. N62742-20-D-0002
A/E Task Order No. N6274221F0315
JCG NO. 03430603
A/E INFO

APPROVED
FOR COMMANDER NAVFAC DATE 02/02/2026

ACTIVITY
AFIMSC APPROVAL PER NAVFAC SAT-TO CHECKLIST

SATISFACTORY TO DATE 31 DEC 2025

DES:	JMH	DRW:	SMC	REV:	ATM
PM/DM					KKK
BRANCH MANAGER					SMK
CHIEF ENG/ARCH					SMK
FIRE PROTECTION					RO

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVFAC PACIFIC
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ~ PACIFIC
JOINT REGION MARIANAS (JRM)
ANDERSEN AIR FORCE BASE
GUAM

FY24 AJJY183012 (P-012),
PDI: NORTH AIRCRAFT PARKING RAMP

BORING LOGS

SCALE: AS SHOWN
EPROJECTS NO.: 1665555
CONSTR CONTROL NO.

NAVFAC DRAWING NO.
17361674

SHEET 51 OF 377

BB115

REDESIGN FINAL SUBMITTAL

IF SHEET IS LESS THAN 22" X 34"
REDUCED PRINT. USE GRAPHIC SCALES

FILE NAME: U:\BLDG\NAVFAC Pacific\D3430603 – P-012 North Aircraft Parking Ramp\700 Working Documents\740 Sheets\740.01 Civil\P012_1665555_BB115.dwg
LAYOUT NAME: BB115
PLOTTED: 01/12/2026 7:26pm
USER: CamenoS

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING V-B15

DATE 1/4/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	LIGHT BROWN-WHITE CORALLINE LIMESTONE - very weak				24			
	1.2	hard from 2.5'				44/3"			
6		moderately hard from 4'				88			
	2.4	hard from 6'				80/3"			
						80/2"			
12	3.6					100/4"			
	4.8								
18						65/1"			
	6								
24	7.2					15/0"			
	8.4								
30									
	9.6					15/0"			
		(no free water encountered)							
		Bottom of hole = 35'							

GEO-ENGINEERING & TESTING, INC. — Geotechnical & Material Testing Engineers
LOG OF TEST BORING V-B15 — FY24 MCAF PROJECT AJJY183012 (P-012) NORTH AIRCRAFT PARKING RAMP — ANDERSEN AIR FORCE BASE, GUAM
Job No. 487.18 Date 1/11/24 — PLATE

C1 BORING LOGS - V-B15
SCALE N.T.S.

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING V-B16

DATE 3/5/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	LIGHT BROWN-WHITE CORALLINE LIMESTONE - hard				71/11"			
	1	weak at 1.5'-3'				31			
5						41/3"			
	2	moderately hard at 6'-7.5'				60/3"			
						65			
10	3					93/11"			
						65/4"			
	4								
15						41/4"			
	5								
		weak from 17'				30			
20	6								
	7					50			
25		(no free water encountered)							
		Bottom of hole = 25'							

GEO-ENGINEERING & TESTING, INC. — Geotechnical & Material Testing Engineers
LOG OF TEST BORING V-B16 — FY24 MCAF PROJECT AJJY183012 (P-012) NORTH AIRCRAFT PARKING RAMP — ANDERSEN AIR FORCE BASE, GUAM
Job No. 487.18 Date 3/7/24 — PLATE

C2 BORING LOGS - V-B16
SCALE N.T.S.

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING V-B17

DATE 3/4/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	LIGHT BROWN-WHITE SILTY GRAVEL WITH SAND (GM) - medium dense, moist				16			
	1	LIGHT BROWN-WHITE CORALLINE LIMESTONE - weak				41			
5						41			
	2					31			
						37			
10	3					46			
						44			
	4								
15						38			
	5								
		hard from 17'				20/0"			
20	6	(no free water encountered)							
		Bottom of hole = 20'							

GEO-ENGINEERING & TESTING, INC. — Geotechnical & Material Testing Engineers
LOG OF TEST BORING V-B17 — FY24 MCAF PROJECT AJJY183012 (P-012) NORTH AIRCRAFT PARKING RAMP — ANDERSEN AIR FORCE BASE, GUAM
Job No. 487.18 Date 3/6/24 — PLATE

C3 BORING LOGS - V-B17
SCALE N.T.S.

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING V-B18

DATE 2/22/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	DARK BROWN ELASTIC SILT (MH) - very soft, moist				7			
	1	DARK BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - loose, moist medium dense from 2'				14			
5		LIGHT BROWN-WHITE CORALLINE LIMESTONE - hard				54/6"			
	2					27/1"			
		moderately hard at 7.5'-9'				20/0"			
10	3					68			
						34/1"			
	4					20/0"			
15		(no free water encountered)							
		Bottom of hole = 15'							

GEO-ENGINEERING & TESTING, INC. — Geotechnical & Material Testing Engineers
LOG OF TEST BORING V-B18 — FY24 MCAF PROJECT AJJY183012 (P-012) NORTH AIRCRAFT PARKING RAMP — ANDERSEN AIR FORCE BASE, GUAM
Job No. 487.18 Date 2/23/24 — PLATE

C5 BORING LOGS - V-B18
SCALE N.T.S.

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING V-B19

DATE 2/22/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	DARK BROWN ELASTIC SILT (MH) - very stiff, moist				21			
	1	LIGHT BROWN-WHITE CORALLINE LIMESTONE - very week weak at 1.5'-3'				43			
5		hard from 4.5'				27			
	2					31/2"			
						20/0"			
10	3					20/0"			
						97/10"			
	4					20/0"			
15		(no free water encountered)							
		Bottom of hole = 15'							

GEO-ENGINEERING & TESTING, INC. — Geotechnical & Material Testing Engineers
LOG OF TEST BORING V-B19 — FY24 MCAF PROJECT AJJY183012 (P-012) NORTH AIRCRAFT PARKING RAMP — ANDERSEN AIR FORCE BASE, GUAM
Job No. 487.18 Date 2/23/24 — PLATE

A1 BORING LOGS - V-B19
SCALE N.T.S.

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING V-B21

DATE 2/22/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	DARK BROWN ELASTIC SILT (MH) - medium stiff, moist				5			
	1	DARK BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - loose, moist				8			
5		LIGHT BROWN-WHITE CORALLINE LIMESTONE - very weak				10			
	2					10			
		weak at 7'-9'				7			
10	3	moderately hard from 9'				34			
						54			
	4					75			
15		(no free water encountered)							
		Bottom of hole = 15'							

GEO-ENGINEERING & TESTING, INC. — Geotechnical & Material Testing Engineers
LOG OF TEST BORING V-B21 — FY24 MCAF PROJECT AJJY183012 (P-012) NORTH AIRCRAFT PARKING RAMP — ANDERSEN AIR FORCE BASE, GUAM
Job No. 487.18 Date 2/23/24 — PLATE

A2 BORING LOGS - V-B21
SCALE N.T.S.

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING V-B22

DATE 2/28/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	(MH) - stiff, moist				13			
	1	LIGHT BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - medium dense, moist				27			
5						28			
	2	LIGHT BROWN-WHITE CORALLINE LIMESTONE - hard				54/6"			
						54/3"			
10	3					80/4"			
		weak from 12'				46			
	4								
15									
	5					49			
20	6	(no free water encountered)							
		Bottom of hole = 20'							

GEO-ENGINEERING & TESTING, INC. — Geotechnical & Material Testing Engineers
LOG OF TEST BORING V-B22 — FY24 MCAF PROJECT AJJY183012 (P-012) NORTH AIRCRAFT PARKING RAMP — ANDERSEN AIR FORCE BASE, GUAM
Job No. 487.18 Date 3/1/24 — PLATE

A3 BORING LOGS - V-B22
SCALE N.T.S.

NAVFAC

STATE OF TEXAS — JENNIFER M. HAYNES — 90167 — LICENSED PROFESSIONAL ENGINEER
1/20/2026
TEXAS REGISTERED ENGINEERING FIRM F-2966 SEAL

Jacobs / BURNS MCDONNELL
JACOBS/B&M, A JOINT VENTURE
1100 NORTH GLEBE ROAD
SUITE 500
ARLINGTON, VA 22201
A/E Contract No. N62742-20-D-0002
A/E Task Order No. N6274221F0315
JCG NO. 03430603
A/E INFO

APPROVED
FOR COMMANDER NAVFAC DATE 02/02/2026

ACTIVITY
AFIMSC APPROVAL PER NAVFAC SAT-TO CHECKLIST
SATISFACTORY TO DATE 31 DEC 2025

DES:	JMH	DRW:	SMC	REV:	ATM
PM/DM					KKK
BRANCH MANAGER					SMK
CHIEF ENG/ARCH					SMK
FIRE PROTECTION					RO

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVFAC PACIFIC
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ~ PACIFIC
JOINT REGION MARIANAS (JRM)
ANDERSEN AIR FORCE BASE
GUAM

FY24 AJJY183012 (P-012),
PDI: NORTH AIRCRAFT PARKING RAMP

BORING LOGS

SCALE: AS SHOWN
EPROJECTS NO.: 1665555
CONSTR CONTROL NO.
NAVFAC DRAWING NO. 17361675
SHEET 52 OF 377

BB116

REDESIGN FINAL SUBMITTAL

IF SHEET IS LESS THAN 22" X 34" REDUCED PRINT. USE GRAPHIC SCALES

FILE NAME: U:\BLDG\NAVFAC Pacific\J3430603 – P-012 North Aircraft Parking Ramp\700 Working Documents\740 Sheets\740.01 Civil\P012_1665555_BB116.dwg
LAYOUT NAME: BB116
PLOTTED: 01/12/2026 7:27pm
USER: CamronS

LOG OF TEST BORING V-B23

Notes:
Relatively Undisturbed Sample — SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow
Disturbed/Bulk Sample

DATE 2/28/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	LIGHT BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - medium dense, moist				31			
1		LIGHT BROWN-WHITE CORALLINE LIMESTONE - weak very weak from 2'				25			
5	2					25			
		weak from 7'				27			
						50			
						40			
10	3	moderately hard from 10'				54			
	4					59			
15	5	with silt pocket, very weak at 17'-18.5'				1			
20	6								
	7	hard from 22'				44/3"			
25		(no free water encountered) Bottom of hole = 25'							

GEO-ENGINEERING & TESTING, INC. — Geotechnical & Material Testing Engineers
LOG OF TEST BORING V-B23 — FY24 MCAF PROJECT AJJY183012 (P-012) NORTH AIRCRAFT PARKING RAMP — ANDERSEN AIR FORCE BASE, GUAM
Job No. 487.18 Date 3/1/24 — PLATE

C1 BORING LOGS - V-B23
SCALE N.T.S.

LOG OF TEST BORING V-B24

Notes:
Relatively Undisturbed Sample — SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow
Disturbed/Bulk Sample

DATE 2/29/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	DARK BROWN ELASTIC SILT WITH SAND (MH) - soft, moist				3			
		DARK BROWN-WHITE SILTY GRAVEL WITH SAND (GM) - very dense, moist				40/8"			
5	1	LIGHT BROWN-WHITE CORALLINE LIMESTONE - hard				27/0"			
	2					34/3"			
						24/0"			
10	3								
	4					20/0"			
15	5					105			
20	6	moderately hard from 22'				64			
	7								
25	8	weak from 27'				46			
30	9	(no free water encountered) Bottom of hole = 30'							

GEO-ENGINEERING & TESTING, INC. — Geotechnical & Material Testing Engineers
LOG OF TEST BORING V-B24 — FY24 MCAF PROJECT AJJY183012 (P-012) NORTH AIRCRAFT PARKING RAMP — ANDERSEN AIR FORCE BASE, GUAM
Job No. 487.18 Date 3/4/24 — PLATE

C2 BORING LOGS - V-B24
SCALE N.T.S.

LOG OF TEST BORING V-B25

Notes:
Relatively Undisturbed Sample — SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow
Disturbed/Bulk Sample

DATE
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	LIGHT BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - dense, moist				38			
1		LIGHT BROWN-WHITE CORALLINE LIMESTONE - weak				44			
5	2	hard from 4'				44/3"			
						65/1"			
10	3								
	4					10/0"			
15	5								
20	6					68/6"			
		(no free water encountered) Bottom of hole = 20'							

GEO-ENGINEERING & TESTING, INC. — Geotechnical & Material Testing Engineers
LOG OF TEST BORING V-B25 — FY24 MCAF PROJECT AJJY183012 (P-012) NORTH AIRCRAFT PARKING RAMP — ANDERSEN AIR FORCE BASE, GUAM
Job No. 487.18 Date 3/5/24 — PLATE

C3 BORING LOGS - V-B25
SCALE N.T.S.

LOG OF TEST BORING V-B26

Notes:
Relatively Undisturbed Sample — SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow
Disturbed/Bulk Sample

DATE 3/4/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	LIGHT BROWN-WHITE CORALLINE LIMESTONE - hard				54/6"			
1						45/1"			
5	2					65/1"			
						65/0"			
10	3	moderately hard from 11'				59			
	4								
15	5	weak from 17'				47			
20	6					48			
25	8	very weak from 27'				25			
30	9	(no free water encountered) Bottom of hole = 30'							

GEO-ENGINEERING & TESTING, INC. — Geotechnical & Material Testing Engineers
LOG OF TEST BORING V-B26 — FY24 MCAF PROJECT AJJY183012 (P-012) NORTH AIRCRAFT PARKING RAMP — ANDERSEN AIR FORCE BASE, GUAM
Job No. 487.18 Date 3/6/24 — PLATE

C5 BORING LOGS - V-B26
SCALE N.T.S.

LOG OF TEST BORING V-B27

Notes:
Relatively Undisturbed Sample — SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow
Disturbed/Bulk Sample

DATE 3/1/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	BROWN-WHITE SILTY LIMESTONE GRAVEL WITH SAND (GM) - medium dense, moist				10			
	1.2					12			
6		REDDISH BROWN-WHITE ELASTIC SILT WITH GRAVEL (MH) - medium stiff, moist very soft from 4.5'				8			
	2.4					1			
		LIGHT BROWN-WHITE CORALLINE LIMESTONE - very weak				13			
12	3.6					20			
						10			
18	4.8	weak at 17'-18.5'				39			
	6								
24	7.2					20			
	8.4	hard from 27'				43/5"			
30	9.6	weak from 32'				40			
		(no free water encountered) Bottom of hole = 35'							

GEO-ENGINEERING & TESTING, INC. — Geotechnical & Material Testing Engineers
LOG OF TEST BORING V-B27 — FY24 MCAF PROJECT AJJY183012 (P-012) NORTH AIRCRAFT PARKING RAMP — ANDERSEN AIR FORCE BASE, GUAM
Job No. 487.18 Date 3/5/24 — PLATE

A1 BORING LOGS - V-B27
SCALE N.T.S.

LOG OF TEST BORING V-B28

Notes:
Relatively Undisturbed Sample — SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow
Disturbed/Bulk Sample

DATE 2/23/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	DARK BROWN ELASTIC SILT WITH SAND (MH) - stiff, moist				18			
	1	LIGHT BROWN-WHITE CORALLINE LIMESTONE - very weak weak from 3'				38			
5						37			
	2					32			
						33			
10	3					30			
						33			
	4	moderately hard from 12'				54			
15		(no free water encountered) Bottom of hole = 15'							

GEO-ENGINEERING & TESTING, INC. — Geotechnical & Material Testing Engineers
LOG OF TEST BORING V-B28 — FY24 MCAF PROJECT AJJY183012 (P-012) NORTH AIRCRAFT PARKING RAMP — ANDERSEN AIR FORCE BASE, GUAM
Job No. 487.18 Date 2/23/24 — PLATE

A2 BORING LOGS - V-B28
SCALE N.T.S.

LOG OF TEST BORING V-B29

Notes:
Relatively Undisturbed Sample — SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow
Disturbed/Bulk Sample

DATE 2/23/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	DARK BROWN ELASTIC SILT WITH SAND (MH) - soft, moist				27			
1		LIGHT BROWN-WHITE CORALLINE LIMESTONE - very weak weak at 1.5'-3'				50			
5		moderately hard from 4.5'				27			
	2	weak from 6'				52			
						41			
10	3								
	4	hard from 12'				20/0"			
15	5	weak from 17'				43			
20	6	(no free water encountered) Bottom of hole = 20'							

GEO-ENGINEERING & TESTING, INC. — Geotechnical & Material Testing Engineers
LOG OF TEST BORING V-B29 — FY24 MCAF PROJECT AJJY183012 (P-012) NORTH AIRCRAFT PARKING RAMP — ANDERSEN AIR FORCE BASE, GUAM
Job No. 487.18 Date 2/23/24 — PLATE

A3 BORING LOGS - V-B29
SCALE N.T.S.

LOG OF TEST BORING V-B30

Notes:
Relatively Undisturbed Sample — SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow
Disturbed/Bulk Sample

DATE 3/4/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	DARK BROWN ELASTIC SILT WITH SAND (MH) - medium stiff, moist				29			
	1	LIGHT BROWN-WHITE CORALLINE LIMESTONE - very weak moderately hard from 2.5'				52			
5						70			
	2					75			
		hard from 7.5'				79 20/0"			
10	3					20/2"			
	4					20/2"			
15									
	5					20/0"			
20	6	(no free water encountered) Bottom of hole = 20'							

GEO-ENGINEERING & TESTING, INC. — Geotechnical & Material Testing Engineers
LOG OF TEST BORING V-B30 — FY24 MCAF PROJECT AJJY183012 (P-012) NORTH AIRCRAFT PARKING RAMP — ANDERSEN AIR FORCE BASE, GUAM
Job No. 487.18 Date 3/6/24 — PLATE

A5 BORING LOGS - V-B30
SCALE N.T.S.

NAVFAC

STATE OF TEXAS — JENNIFER M. HAYNES — 90167 — LICENSED PROFESSIONAL ENGINEER — 1/20/2026
TEXAS REGISTERED ENGINEERING FIRM F-2966 SEAL

Jacobs / BURNS MCDONNELL
JACOBS/B&M, A JOINT VENTURE
1100 NORTH GLEBE ROAD
SUITE 500
ARLINGTON, VA 22201
A/E Contract No./N62742-2D-0002
A/E Task Order No./N6274221F0315
JCG NO./C3430603
A/E INFO

APPROVED
FOR COMMANDER NAVFAC DATE 02/02/2026

ACTIVITY
AFIMSC APPROVAL PER NAVFAC SAT-TO CHECKLIST

SATISFACTORY TO DATE 31 DEC 2025

DES:	JMH	DRW:	SMC	REV:	ATM
PM/DM					KKK
BRANCH MANAGER					SMK
CHIEF ENG/ARCH					SMK
FIRE PROTECTION					RO

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVFAC PACIFIC
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ~ PACIFIC
JOINT REGION MARIANAS (JRM)
ANDERSEN AIR FORCE BASE
GUAM

FY24 AJJY183012 (P-012),
PDI: NORTH AIRCRAFT PARKING RAMP

BORING LOGS

SCALE: AS SHOWN
EPROJECTS NO.: 1665555
CONSTR CONTROL NO.
NAVFAC DRAWING NO. 17361676
SHEET 53 OF 377

BB117

REDESIGN FINAL SUBMITTAL

IF SHEET IS LESS THAN 22" X 34" REDUCED PRINT. USE GRAPHIC SCALES

FILE NAME: U:\BLDG\NAVFAC Pacific\D3430603 – P-012 North Aircraft Parking Ramp\700 Working Documents\740 Sheets\740.01 Civil\P012_1665555_BB117.dwg
LAYOUT NAME: BB117
PLOTTED: 01/12/2026 7:27pm
USER: CamenoS

LOG OF TEST BORING V-B31

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

DATE 2/29/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	CASING & TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	DARK BROWN ELASTIC SILT WITH SAND (MH) - medium stiff, moist				50			
		LIGHT BROWN-WHITE CORALLINE LIMESTONE - weak				41			
5	1	moderately hard from 4.5'				50			
	2	hard from 6'				56 20/6"			
		moderately hard from 8.5'				69			
10	3					54			
		hard from 12'							
	4					20/0"			
15	5								
						20/0"			
20	6	(no free water encountered)							
		Bottom of hole = 20'							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 3/4/24

LOG OF TEST BORING V-B31
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM

PLATE

C1 BORING LOGS - V-B31
SCALE N.T.S.

LOG OF TEST BORING V-B32

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

DATE 2/29/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	CASING & TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	DARK BROWN ELASTIC SILT WITH SAND AND GRAVEL (MH) - medium stiff, moist				50			
		LIGHT BROWN-WHITE CORALLINE LIMESTONE - weak				39			
5	1	moderately hard from 4'				54			
	2					54			
						56			
10	3	weak at 10'				54			
		(no free water encountered)				49			
		Bottom of hole = 10.5'							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 3/4/24

LOG OF TEST BORING V-B32
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM

PLATE

C2 BORING LOGS - V-B32
SCALE N.T.S.

LOG OF TEST BORING V-B33

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

DATE 3/1/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	CASING & TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	DARK BROWN SILTY LIMESTONE GRAVEL WITH SAND (GM) - medium dense, moist				30			
		LIGHT BROWN-WHITE CORALLINE LIMESTONE - hard				34/4"			
5	1	weak from 4'				41			
	2	very weak from 5.5'				30			
						19			
10	3					28			
						27			
	4	hard from 12'				34/3"			
15	5								
						20/0"			
20	6								
	7					20/0"			
25		(no free water encountered)							
		Bottom of hole = 25'							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 3/4/24

LOG OF TEST BORING V-B33
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM

PLATE

C3 BORING LOGS - V-B33
SCALE N.T.S.

LOG OF TEST BORING V-B34

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

DATE 3/1/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	CASING & TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	DARK BROWN ELASTIC SILT WITH SAND (MH) - medium stiff, dry				31			
		LIGHT BROWN-WHITE CORALLINE LIMESTONE - weak				27/2"			
5	1	hard from 1.5' moderately hard at 3'-4.5'				69 27/2"			
	2	weat at 6'-7.5'							
		very weak from 7.5'				41			
10	3					18			
						18			
	4	hard from 12'				34/4"			
15	5								
						20/2"			
20	6								
	7					20/1"			
25	8								
						20/0"			
30	9	(no free water encountered)							
		Bottom of hole = 30'							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 3/4/24

LOG OF TEST BORING V-B34
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM

PLATE

C5 BORING LOGS - V-B34
SCALE N.T.S.

LOG OF TEST BORING V-B35

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) hammer free falling 30 in (76 cm.)/blow

DATE 3/4/24
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	CASING & TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	DARK BROWN ELASTIC SILT (MH) - stiff, moist				27			
		LIGHT BROWN-WHITE CORALLINE LIMESTONE - very weak hard from 1.5'				20/0"			
5	1	moderately hard from 4'				56			
	2					61			
		weak from 8.5'				52			
10	3					40			
						41			
	4	moderately hard from 13'				60			
15		(no free water encountered)							
		Bottom of hole = 15'							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 3/6/24

LOG OF TEST BORING V-B35
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM

PLATE

A1 BORING LOGS - V-B35
SCALE N.T.S.

LOG OF TEST PIT V-TP-1

Notes:
Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test basec on 63.5 kg (140 lb) hammer free falling 76 cm (30 in.)/blow

DATE 4/3/24
EQUIPMENT Backhoe
ELEVATION 452.6'

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	CASING & TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)**	MOISTURE CONTENT, %	DRY DENSITY, pcf	LABORATORY TESTS
0	0	LIGHT BROWN-WHITE CORALLINE LIMESTONE - moderately hard, with silt pocket							
0.2									
1	0.4								
0.6									
2	0.8								
3	1	hard, refusal to backhoe digging at 3.5'							
		(no free water encountered)							
		Bottom of hole = 3.5'							
		688211.17 N							
		386382 E							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 4/4/24

LOG OF TEST PIT V-TP-1
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM

PLATE

A2 BORING LOGS - V-TP-1
SCALE N.T.S.

LOG OF TEST PIT V-TP-2

Notes:
Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test basec on 63.5 kg (140 lb) hammer free falling 76 cm (30 in.)/blow

DATE 4/3/24
EQUIPMENT Backhoe
ELEVATION 488.6'

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	CASING & TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)**	MOISTURE CONTENT, %	DRY DENSITY, pcf	LABORATORY TESTS
0	0	LIGHT BROWN-WHITE CORALLINE LIMESTONE - moderately hard, with silt pocket							
0.2									
1	0.4								
0.6									
2		hard, refusal to backhoe digging at 2'2"							
		(no free water encountered)							
		Bottom of hole = 2'2"							
		688581.21 N							
		386188.06 E							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 4/4/24

LOG OF TEST PIT V-TP-2
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM

PLATE

A3 BORING LOGS - V-TP-2
SCALE N.T.S.

LOG OF TEST PIT V-TP-3

Notes:
Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 63.5 kg (140 lb) hammer free falling 76 cm (30 in.)/blow

DATE 4/3/24
EQUIPMENT Backhoe
ELEVATION 516.63'

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	CASING & TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)**	MOISTURE CONTENT, %	DRY DENSITY, pcf	LABORATORY TESTS
0	0	REDDISH BROWN SILT (ML) - medium stiff, moist							
0.2		LIGHT BROWN-WHITE CORALLINE LIMESTONE - moderately hard, with silt pocket							
1	0.4								
0.6									
2	0.8								
1									
3	1.2	hard, refusal to backhoe digging at 4'2"							
4		(no free water encountered)							
		Bottom of hole = 4'2"							
		689106.06 N							
		386669.26 E							

GEO-ENGINEERING & TESTING, INC.
Geotechnical & Material Testing Engineers
Job No. 487.18 Date 4/4/24

LOG OF TEST PIT V-TP-3
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM

PLATE

A5 BORING LOGS - V-TP-3
SCALE N.T.S.

NAVFAC

STATE OF TEXAS
JENNIFER M. HAYNES
90167
LICENSED
PROFESSIONAL ENGINEER
1/20/2026
TEXAS REGISTERED ENGINEERING FIRM F-2966 SEAL

Jacobs / BURNS MCDONNELL
JACOBS/BMM, A JOINT VENTURE
1100 NORTH GLEBE ROAD
SUITE 500
ARLINGTON, VA 22201

A/E Contract No.,N62742-20-D-0002
A/E Task Order No.,N6274221F0315
JCG NO.,13430603
A/E INFO

APPROVED
FOR COMMANDER NAVFAC DATE 02/02/2026

ACTIVITY
AFIMSC APPROVAL PER NAVFAC SAT-TO CHECKLIST

SATISFACTORY TO DATE 31 DEC 2025

DES:	JMH	DRW:	SMC	REV:	ATM
PM/DM					KKK
BRANCH MANAGER					SMK
CHIEF ENG/ARCH					SMK
FIRE PROTECTION					RO

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVFAC PACIFIC
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ~ PACIFIC
JOINT REGION MARIANAS (JRM)
ANDERSEN AIR FORCE BASE
GUAM

FY24 AJJY183012 (P-012),
PDI: NORTH AIRCRAFT PARKING RAMP

BORING LOGS

SCALE: AS SHOWN
EPROJECTS NO.: 1665555
CONSTR CONTROL NO.
NAVFAC DRAWING NO. 17361677
SHEET 54 OF 377

BB118

REDESIGN FINAL SUBMITTAL

IF SHEET IS LESS THAN 22" X 34" REDUCED PRINT. USE GRAPHIC SCALES

FILE NAME: U:\BLDG\NAVFAC Pacific\J3430603 – P-012 North Aircraft Parking Ramp\700 Working Documents\740 Sheets\740.01 Civil\P012_1665555_BB118.dwg
LAYOUT NAME: BB118
PLOTTED: 01/12/2026 7:27pm
USER: CamenoS

LOG OF TEST BORING BH-1A

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) automatic hammer free falling 30 in (76 cm.)/blow

DATE 12/4/25
EQUIPMENT 8" Dia. Hollow Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	LIGHT BROWN-WHITE SILTY SANDY LIMESTONE GRAVEL (GM) - dense tc very dense, moist							
1		LIGHT BROWN-WHITE CORALLINE LIMESTONE - hard				41/3"			
5	1					41/3"			
2						60/5"			
10	3					60/3"			
						60/4"			
4						115/ 11"			
15						60/5"			
						64/3"			
						60/3"			

(no free water encountered)

Bottom of Hole = 15.5'

GEO-ENGINEERING & TESTING, INC. *Geotechnical & Material Testing Engineers*	LOG OF TEST BORING BH-1A FY24 MCAF PROJECT AJJY183012 (P-012) NORTH AIRCRAFT PARKING RAMP ANDERSEN AIR FORCE BASE, GUAM	PLATE 2
Job No. 487.18A Date 12/4/25		

C1 BORING LOGS - BH-1A
SCALE N.T.S.

LOG OF TEST BORING BH-2A

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) automatic hammer free falling 30 in (76 cm.)/blow

DATE 12/4/25
EQUIPMENT 8" Dia. Hollow Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	LIGHT BROWN-WHITE CORALLINE LIMESTONE - hard				60/3"			
1						20/0"			
5	1					60/3"			
2						60/3"			
10	3					60/2"			
						62/5"			
4						60/3"			
15						40/0"			
5						30/0"			
20	6								

(no free water encountered)

Bottom of Hole = 20'

GEO-ENGINEERING & TESTING, INC. *Geotechnical & Material Testing Engineers*	LOG OF TEST BORING BH-2A FY24 MCAF PROJECT AJJY183012 (P-012) NORTH AIRCRAFT PARKING RAMP ANDERSEN AIR FORCE BASE, GUAM	PLATE 3
Job No. 487.18A Date 12/4/25		

C2 BORING LOGS - BH-2A
SCALE N.T.S.

LOG OF TEST BORING BH-3A

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) automatic hammer free falling 30 in (76 cm.)/blow

DATE 12/3/25
EQUIPMENT 8" Dia. Hollow Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	LIGHT BROWN-WHITE SILTY SANDY LIMESTONE GRAVEL (GM) - dense, moist							
1		LIGHT BROWN-WHITE CORALLINE LIMESTONE - hard				42/3"			
5	1					119/ 11"			
2						60/2"			
10	3					60/2"			
						61/3"			
4						61/4"			
15						60/4"			
5						60/2"			
20	6					60/2"			
						60/3"			
25	7					50/0"			
						40/0"			
30	9								

(no free water encountered)

Bottom of Hole = 30'

GEO-ENGINEERING & TESTING, INC. *Geotechnical & Material Testing Engineers*	LOG OF TEST BORING BH-3A FY24 MCAF PROJECT AJJY183012 (P-012) NORTH AIRCRAFT PARKING RAMP ANDERSEN AIR FORCE BASE, GUAM	PLATE 4
Job No. 487.18A Date 12/4/25		

C3 BORING LOGS - BH-3A
SCALE N.T.S.

LOG OF TEST BORING BH-4A

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) automatic hammer free falling 30 in (76 cm.)/blow

DATE 12/10/25
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	LIGHT BROWN-WHITE SILTY SANDY LIMESTONE GRAVEL (GM) - medium dense, moist							
1		LIGHT BROWN-WHITE CORALLINE LIMESTONE - moderately hard				80			
5	1								
2		hard from 5'				63/3			
10	3					63/3			
						63/4			
4						60/2"			
15						60/4"			
5						70/5"			
20	6					60/5"			
						60/5"			
25	7					60/4"			
						60/4"			

(no free water encountered)

Bottom of Hole = 25'

GEO-ENGINEERING & TESTING, INC. *Geotechnical & Material Testing Engineers*	LOG OF TEST BORING BH-4A FY24 MCAF PROJECT AJJY183012 (P-012) NORTH AIRCRAFT PARKING RAMP ANDERSEN AIR FORCE BASE, GUAM	PLATE 5
Job No. 487.18A Date 12/12/25		

C5 BORING LOGS - BH-4A
SCALE N.T.S.

LOG OF TEST BORING BH-5A

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) automatic hammer free falling 30 in (76 cm.)/blow

DATE 12/5/25
EQUIPMENT 8" Dia. Hollow-Stem Auger
ELEVATION

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	REDDISH BROWN ELASTIC SILT (MH) - medium stiff, moist				5			
1									
5	1								
2		gravelly elastic silt, stiff from 7'				13			
10	3					10			
		YELLOWISH BROWN-WHITE CORALLINE LIMESTONE - very weak				12			
4						6			
15		weak from 13.5'				41			
5						36			
		hard from 18'				43			
20	6					66/11"			
						66/5"			

(no free water encountered)

Bottom of Hole = 20'

GEO-ENGINEERING & TESTING, INC. *Geotechnical & Material Testing Engineers*	LOG OF TEST BORING BH-5A FY24 MCAF PROJECT AJJY183012 (P-012) NORTH AIRCRAFT PARKING RAMP ANDERSEN AIR FORCE BASE, GUAM	PLATE 6
Job No. 487.18A Date 12/5/25		

A1 BORING LOGS - BH-5A
SCALE N.T.S.

LOG OF TEST BORING BH-6A

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) automatic hammer free falling 30 in (76 cm.)/blow

DATE 12/2/25
EQUIPMENT 8" Dia. Hollow Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	LIGHT BROWN-WHITE SILTY SANDY LIMESTONE GRAVEL (GM) - dense, moist				69/10"			
1		LIGHT BROWN-WHITE CORALLINE LIMESTONE - hard				48/4"			
5	1					64/10"			
2						60/3"			
10	3					41/3"			
						70/5"			
4						60/4"			
15						62/3"			
						61/3"			

(no free water encountered)

Bottom of Hole = 15'

GEO-ENGINEERING & TESTING, INC. *Geotechnical & Material Testing Engineers*	LOG OF TEST BORING BH-6A FY24 MCAF PROJECT AJJY183012 (P-012) NORTH AIRCRAFT PARKING RAMP ANDERSEN AIR FORCE BASE, GUAM	PLATE 7
Job No. 487.18A Date 12/4/25		

A2 BORING LOGS - BH-6A
SCALE N.T.S.

LOG OF TEST BORING BH-7A

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) automatic hammer free falling 30 in (76 cm.)/blow

DATE 11/18/25
EQUIPMENT 8" Dia. Hollow Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	LIGHT BROWN-WHITE SILTY SANDY LIMESTONE GRAVEL (GM) - dense, moist				46			
1		LIGHT BROWN-WHITE CORALLINE LIMESTONE - weak				41/5"			
		hard from 1.5'				70/5"			
5		weak from 4.5'				37			
2						37			
		moderately hard from 7.5				63			
10	3					73			

(no free water encountered)

Bottom of Hole = 10.5'

GEO-ENGINEERING & TESTING, INC. *Geotechnical & Material Testing Engineers*	LOG OF TEST BORING BH-7A FY24 MCAF PROJECT AJJY183012 (P-012) NORTH AIRCRAFT PARKING RAMP ANDERSEN AIR FORCE BASE, GUAM	PLATE 8
Job No. 487.18A Date 11/25/25		

A3 BORING LOGS - BH-7A
SCALE N.T.S.

LOG OF TEST BORING BH-8A

Notes:
Relatively Undisturbed Sample
Disturbed/Bulk Sample
SPT = Standard Penetration Test based on 140 lb (63.5 kg) automatic hammer free falling 30 in (76 cm.)/blow

DATE 11/18/25
EQUIPMENT 8" Dia. Hollow Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	REDDISH BROWN SILT (ML) - very soft, moist				1			
1						1			
5	1	silt with gravel from 2.5'				3			
2		soft at 3'-4.5'				8			
10	3	medium stiff from 4.5'				16			
		LIGHT BROWN-WHITE CORALLINE LIMESTONE - very weak				15			
4						18			
15						14			
		hard from 15'				27/1"			
20	5								

(no free water encountered)

Bottom of Hole = 16.5'

GEO-ENGINEERING & TESTING, INC. *Geotechnical & Material Testing Engineers*	LOG OF TEST BORING BH-8A FY24 MCAF PROJECT AJJY183012 (P-012) NORTH AIRCRAFT PARKING RAMP ANDERSEN AIR FORCE BASE, GUAM	PLATE 9
Job No. 487.18A Date 11/25/25		

A5 BORING LOGS - BH-8A
SCALE N.T.S.

NAVFAC

STATE OF TEXAS
JENNIFER M. HAYNES
90167
LICENSED
PROFESSIONAL ENGINEER
1/20/2026
TEXAS REGISTERED ENGINEERING FIRM F-2966 SEAL

Jacobs / BURNS MCDONNELL
JACOBS/B&M, A JOINT VENTURE
1100 NORTH GLEBE ROAD
SUITE 500
ARLINGTON, VA 22201

A/E Contract No./N62742-2D-0002
A/E Task Order No./N6274221F0315
JCG NO./334306003
A/E INFO

APPROVED
FOR COMMANDER NAVFAC DATE 02/02/2026

ACTIVITY
AFIMSC APPROVAL PER NAVFAC SAT-TO CHECKLIST

SATISFACTORY TO DATE 31 DEC 2025

DES:	JMH	DRW:	SMC	REV:	ATM
PM/DM					KKK
BRANCH MANAGER					SMK
CHIEF ENG/ARCH					SMK
FIRE PROTECTION					RO

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVFAC PACIFIC
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ~ PACIFIC
JOINT REGION MARIANAS (JRM)
ANDERSEN AIR FORCE BASE
GUAM

FY24 AJJY183012 (P-012),
PDI: NORTH AIRCRAFT PARKING RAMP

BORING LOGS

SCALE: AS SHOWN
EPROJECTS NO.: 1665555
CONSTR CONTROL NO.
NAVFAC DRAWING NO. 17361678
SHEET 55 OF 377

BB119

REDESIGN FINAL SUBMITTAL

FILE NAME: U:\BLDG\NAVFAC Pacific\J3430603 – P-012 North Aircraft Parking Ramp\700 Working Documents\740 Sheets\740.01 Civil\P012_1665555_BB119.dwg
LAYOUT NAME: BB119
PLOTTED: 01/12/2026 7:28pm
USER: CamenoS

IF SHEET IS LESS THAN 22" X 34" REDUCED PRINT. USE GRAPHIC SCALES

Notes:
- Relatively Undisturbed Sample
- Disturbed/Bulk Sample
- SPT = Standard Penetration Test based on 140 lb (63.5 kg) automatic hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING **BH-9A**
DATE 11/19/25
EQUIPMENT 8" Dia. Hollow Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	LIGHT BROWN-WHITE SILTY SANDY LIMESTONE GRAVEL (GM) - dense, moist				12			
		LIGHT BROWN-WHITE CORALLINE LIMESTONE - very weak				28			
5	1	weak from 4.5'				26			
						31			
	2	hard at 6'-7.5'				41/5"			
						44			
10	3	very weak at 9'-10.5'				23			
	4					45			
15	5								
						40			
20	6	(no free water encountered)							
		Bottom of Hole = 20'							

GEO-ENGINEERING & TESTING, INC. *Geotechnical & Material Testing Engineers*
LOG OF TEST BORING BH-9A
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
Job No. 487.18A Date 11/25/25
PLATE 10

C1 BORING LOGS - BH-9A
SCALE N.T.S.

Notes:
- Relatively Undisturbed Sample
- Disturbed/Bulk Sample
- SPT = Standard Penetration Test based on 140 lb (63.5 kg) automatic hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING **BH-10A**
DATE 11/19/25
EQUIPMENT 8" Dia. Hollow Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	LIGHT BROWN-WHITE SILTY SANDY LIMESTONE GRAVEL (GM) - medium dense, moist				22			
		LIGHT BROWN-WHITE CORALLINE LIMESTONE - very weak				48			
5	1	weak at 1.5'-3'				42/5"			
		hard from 3.5'				43/2"			
	2					70/4"			
		moderately hard at 7.5'-9'							
10	3	weak from 9'				82			
						48			
	4					41			
15	5	very weak from 17'							
						29			
20	6	(no free water encountered)							
		Bottom of Hole = 20'							

GEO-ENGINEERING & TESTING, INC. *Geotechnical & Material Testing Engineers*
LOG OF TEST BORING BH-10A
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
Job No. 487.18A Date 11/25/25
PLATE 11

C2 BORING LOGS - BH-10A
SCALE N.T.S.

Notes:
- Relatively Undisturbed Sample
- Disturbed/Bulk Sample
- SPT = Standard Penetration Test based on 140 lb (63.5 kg) automatic hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING **BH-11A**
DATE 12/1/25
EQUIPMENT 8" Dia. Hollow Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	REDDISH BROWN SILT (ML) - soft, moist				3			
		very soft from 1.5'				1			
5	1	LIGHT BROWN-WHITE CORALLINE LIMESTONE - very weak				17			
	2	moderately hard at 4.5'-6'				58			
		weak from 6'				38			
10	3					31			
						34			
	4					47			
15	5	hard from 17'							
						80/11"			
20	6	(no free water encountered)							
		Bottom of Hole = 20'							

GEO-ENGINEERING & TESTING, INC. *Geotechnical & Material Testing Engineers*
LOG OF TEST BORING BH-11A
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
Job No. 487.18A Date 12/4/25
PLATE 12

C3 BORING LOGS - BH11A
SCALE N.T.S.

Notes:
- Relatively Undisturbed Sample
- Disturbed/Bulk Sample
- SPT = Standard Penetration Test based on 140 lb (63.5 kg) automatic hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING **BH-12A**
DATE 11/24/25
EQUIPMENT 8" Dia. Hollow Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	LIGHT BROWN-WHITE SILTY SANDY LIMESTONE GRAVEL (GM) - very dense, moist				41/3"			
		LIGHT BROWN-WHITE CORALLINE LIMESTONE - hard				48/3"			
5	1					43/3"			
	2					24/1"			
						28/0"			
10	3					31/1"			
	4					41/5"			
15	5	(no free water encountered)				20/0"			
		Bottom of Hole = 15'							

GEO-ENGINEERING & TESTING, INC. *Geotechnical & Material Testing Engineers*
LOG OF TEST BORING BH-12A
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
Job No. 487.18A Date 11/25/25
PLATE 13

C5 BORING LOGS - BH-12A
SCALE N.T.S.

Notes:
- Relatively Undisturbed Sample
- Disturbed/Bulk Sample
- SPT = Standard Penetration Test based on 140 lb (63.5 kg) automatic hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING **BH-13A**
DATE 11/24/25
EQUIPMENT 8" Dia. Hollow Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	LIGHT BROWN-WHITE SILTY SANDY LIMESTONE GRAVEL (GM) - medium dense, moist				24			
						27			
	1	LIGHT BROWN-WHITE CORALLINE LIMESTONE - hard				27/1"			
5						14/0"			
	2					20/0"			
						41/5"			
10	3					14/0"			
		(no free water encountered)							
		Bottom of Hole = 10'							

GEO-ENGINEERING & TESTING, INC. *Geotechnical & Material Testing Engineers*
LOG OF TEST BORING BH-13A
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
Job No. 487.18A Date 11/25/25
PLATE 14

A1 BORING LOGS - BH-13A
SCALE N.T.S.

Notes:
- Relatively Undisturbed Sample
- Disturbed/Bulk Sample
- SPT = Standard Penetration Test based on 140 lb (63.5 kg) automatic hammer free falling 30 in (76 cm.)/blow

LOG OF TEST BORING **BH-14A**
DATE 11/24/25
EQUIPMENT 8" Dia. Hollow Stem Auger
ELEVATION --

DEPTH (FT.)	DEPTH (M.)	DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE	DRILL RATE (min/ft)	SPT (Blows/ft.)*	MOISTURE CONTENT, %	DRY DENSITY, lbs./cu.ft.	LABORATORY TESTS
0	0	LIGHT BROWN-WHITE SILTY SANDY LIMESTONE GRAVEL (GM) - dense, moist				31			
		LIGHT BROWN-WHITE CORALLINE LIMESTONE - very weak				13			
5	1	weak from 3'				35			
		hard at 4.5'-6'				69/9"			
	2					35			
10	3					37			
		hard at 11'-12.5'				38			
	4	moderately hard from 12.5'				68/10"			
15						64			
		(no free water encountered)							
		Bottom of Hole = 15'							

GEO-ENGINEERING & TESTING, INC. *Geotechnical & Material Testing Engineers*
LOG OF TEST BORING BH-14A
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE, GUAM
Job No. 487.18A Date 11/25/25
PLATE 15

A2 BORING LOGS - BH-14A
SCALE N.T.S.

MAJOR DIVISIONS			SYMBOL	TYPICAL NAMES
COARSE GRAINED SOILS (MORE THAN HALF IS LARGER THAN # 200 SIEVE)	GRAVELS (MORE THAN HALF COARSE FRACTION IS LARGER THAN No. 4 SIEVE SIZE)	CLEAN GRAVELS WITH LITTLE OR NO FINES	GW	WELL GRADED GRAVELS, GRAVEL - SAND MIXTURES
			GP	POORLY GRADED GRAVELS, GRAVEL - SAND MIXTURES
		GRAVELS WITH OVER 12 % FINES	GM	SILTY GRAVELS, POORLY GRADED GRAVEL - SAND - SILT MIXTURES
			GC	CLAYEY GRAVELS, POORLY GRADED GRAVEL - SAND - CLAY MIXTURES
	SANDS (MORE THAN HALF COARSE FRACTION IS SMALLER THAN No. 4 SIEVE SIZE)	CLEAN SANDS WITH LITTLE OR NO FINES	SW	WELL GRADED SANDS GRAVELLY SANDS
			SP	POORLY GRADED SANDS, GRAVELLY SANDS
		SANDS WITH OVER 12 % FINES	SM	SILTY SANDS, POORLY GRADED SAND - SILT MIXTURES
			SC	CLAYEY SANDS, POORLY GRADED SAND - CLAY MIXTURES
FINE GRAINED SOILS (MORE THAN HALF IS SMALLER THAN # 200 SIEVE)	SILTS AND CLAYS (LIQUID LIMIT LESS THAN 50)		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS, OR CLAYEY SILT WITH SLIGHTLY PLASTICITY
			CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
			OL	ORGANIC CLAYS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS (LIQUID LIMIT GREATER THAN 50)		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS, ELASTIC SILTS
			CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
			OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS			Pt	PEAT AND OTHER HIGHLY ORGANIC SOILS

SOIL CLASSIFICATION SYSTEM

SA = Sieve Analysis
LL = Liquid Limit
PI = Plasticity Index
DS = Direct Shear

☒ = "Disturbed" Sample
■ = "Undisturbed" Sample

GEO-ENGINEERING & TESTING, INC. Geotechnical & Material Testing Engineers
Job No. 487.18A Appr. USI Date: 12/5/25
SOIL CLASSIFICATION CHART
FY24 MCAF PROJECT AJJY183012 (P-012)
NORTH AIRCRAFT PARKING RAMP
ANDERSEN AIR FORCE BASE , GUAM
PLATE 16

A3 BORING LOGS
SCALE N.T.S.

NAVFAC

STATE OF TEXAS
JENNIFER M. HAYNES
90167
LICENSED
PROFESSIONAL ENGINEER
1/20/2026
TEXAS REGISTERED ENGINEERING FIRM F-2966 SEAL

Jacobs / BURNS MCDONNELL
JACOBS/B&M, A JOINT VENTURE
1100 NORTH GLEBE ROAD
SUITE 500
ARLINGTON, VA 22201

A/E Contract No.,N62742-20-D-0002
A/E Task Order No.,N6274221F0315
JCG NO.,13430603
A/E INFO

APPROVED
FOR COMMANDER NAVFAC DATE 02/02/2026

ACTIVITY
AFIMSC APPROVAL PER NAVFAC SAT-TO CHECKLIST

SATISFACTORY TO DATE 31 DEC 2025

DES: JMH	DRW: SMC	REV: ATM
PM/DM		KKK
BRANCH MANAGER		SMK
CHIEF ENG/ARCH		SMK
FIRE PROTECTION		RO

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVFAC PACIFIC
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ~ PACIFIC
JOINT REGION MARIANAS (JRM)
ANDERSEN AIR FORCE BASE
GUAM

FY24 AJJY183012 (P-012),
PDI: NORTH AIRCRAFT PARKING RAMP

BORING LOGS

SCALE: AS SHOWN
EPROJECTS NO.: 1665555
CONSTR CONTROL NO.
NAVFAC DRAWING NO. 17361679
SHEET 56 OF 377

BB120

REDESIGN FINAL SUBMITTAL

FILE NAME: U:\BLDG\NAVFAC Pacific\JJ3430603 – P-012 North Aircraft Parking Ramp\700 Working Documents\740 Sheets\740.01 Civil\P012_1665555_BB120.dwg
LAYOUT NAME: BB120
PLOTTED: 01/12/2026 7:28pm
USER: CameronS

IF SHEET IS LESS THAN 22" X 34"
REDUCED PRINT. USE GRAPHIC SCALES

CIVIL SYMBOLS

NEW		EXISTING
	BUILDING FOOTPRINT	
	CONCRETE PAVEMENT	
	ASPHALT SHOULDER	
	ASPHALT ROADWAY	
	CONCRETE SIDEWALK	
	GRAVEL/DIRT ROAD	
	CONCRETE WALL	
X	SECURITY FENCE	X
	TEMPORARY FENCE	
524	MINOR CONTOUR	524
525	MAJOR CONTOUR	525
SD	STORM DRAIN	
W	WATER LINE	W_X
	SANITARY SEWER LINE	SS_X
F	FIRE LINE	
FUEL	FUEL LINE	$FUEL_X$
E	UNDERGROUND ELECTRIC LINE	E_X
COMM	UNDERGROUND COMM LINE	C_X
	EXISTING PHONE LINE TO REMAIN	T_X
	ROAD SIGNS	
	TAXILANE LIGHTS	
	AIRCRAFT TIEDOWN	
	FIRE HYDRANT	
	FUEL HYDRANT PIT	
	LIGHT POLE	
D	STORM DRAIN MANHOLE	D
	HEADWALL	
	WATER VALVE	
	TEE	
BFP	BACKFLOW PREVENTER	
	SANITARY SEWER MANHOLE	S
	LIFT STATION	
	COMMUNICATION JUNCTION BOX	
	ELECTRICAL HANDHOLE	
	TAXIWAY EDGE LIGHT	QL
	UTILITY HANDHOLE	UHH
	COMM MANHOLE	

REFERENCING SYSTEM

101	DEMOLITION KEYNOTE
201	KEYNOTE

GENERAL NOTES

A. IT IS EXPECTED THAT THE ACTUAL LOCATION OF EXISTING UTILITIES MAY VARY FROM THAT SHOWN ON THE PLANS. POTHOLE AND LOCATE EXISTING UTILITIES. VARIATIONS IN LOCATION AND DEPTH MUST BE BROUGHT TO THE ATTENTION OF THE CONTRACTING OFFICER IMMEDIATELY SO THAT THE LOCATION OF UTILITIES MAY BE CHECKED WITH THE DESIGN. NOTIFY CONTRACTING OFFICER PRIOR TO WORK COMMENCING FOR EXCAVATION OR POTHOLING.

B. CONFIRM SITE FEATURES TIE INTO EXISTING SITE DEVELOPMENT, THAT PAVEMENT JOINTS MATCH CORRECTLY, AND THAT GENERAL DESIGN ELEVATIONS FOR CONSTRUCTION PROVIDE POSITIVE PAVEMENT AND DRAINAGE SLOPES FROM EXISTING TIE-IN POINTS WITH SLOPES NO GREATER THAN 3:1. REPORT DISCREPANCIES TO THE CONTRACTING OFFICER PRIOR TO CONSTRUCTION.

C. TOPOGRAPHIC SURVEY PREPARED BY DUENAS CAMACHO & ASSOCIATES, INC. DATED JULY 19, 2022.

D. UPON COMPLETION OF THE CONSTRUCTION PROJECT, THE PROJECT AREA MUST BE FREE OF DEBRIS AND UNUSED MATERIAL. DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES MUST BE RESTORED TO AN "AS GOOD" CONDITION.

E. MAINTAIN TRAFFIC (VEHICULAR AND PEDESTRIAN) ACCESS TO ALL SITE FACILITIES.

F. DIMENSIONS ON PLAN, PROFILE AND DETAIL SHEETS ARE IN FEET UNLESS OTHERWISE NOTED.

G. WORK WITH THE CONTRACTING OFFICER TO MINIMIZE DOWNTIME OF THE POWER CHECK PAD. THIS WILL INVOLVE PHASING PROJECT DEMOLITION AND CONSTRUCTION TO MINIMIZE POWER CHECK PAD DOWNTIME.

H. RELOCATE FREE ZONE FENCING TO ACCOMMODATE MORE AIRCRAFT PARKING ON THE APRON THROUGHOUT CONSTRUCTION. ASSUME FREE ZONE FENCING WILL REQUIRE MOVEMENT 4 TIMES PER YEAR FOR A TOTAL OF APPROXIMATELY 120 DAYS TOTAL. FREE ZONE RELOCATION MAY BE MINIMIZED IF CONSTRUCTION OF THE TAXILANE TIE-IN WORK IS SCHEDULED OUTSIDE OF THE BASE EXERCISE PERIOD WHICH GENERALLY RUNS FROM FEBRUARY TO AUGUST EACH YEAR. COORDINATE WITH CONTRACTING OFFICER AND 36 OSS/OAAS AIRFIELD MANAGEMENT (DAMON.SHEPHERD@US.AF.MIL, 366-1010) TO DECONFLICT WITH LARGE FORCE EXERCISES AND FOR EXACT PLACEMENT OF FREE ZONE FENCING DURING TAXIWAY TIE-IN WORK.

I. SEPARATE CLEARING AND GRADING PERMITS WILL BE REQUIRED FOR THIS PROJECT. ONE (1) PERMIT FOR CONSTRUCTION AND ONE (1) PERMIT FOR THE PROBING AND FILLING OF KARST AREAS.

BENCHMARKS

A. HORIZONTAL AND VERTICAL CONTROL SURVEY WAS BASED FROM GGN-8 WITH A MEAN SEA LEVEL (MSL) 569.55', AS SHOWN, AND WITH THE FOLLOWING GRID COORDINATES

GRID VALUE	NORTHING(FT)	EASTING(FT)
1993	682,406.3148	386,184.7184

B. DISTANCES, COORDINATES AND DIMENSIONS SHOWN HEREON ARE IN INTERNATIONAL SURVEY FEET AND DECIMALS THEREOF, UNLESS OTHERWISE NOTED.

C. CONTOURS WERE DEVELOPED FROM SPOT ELEVATIONS USING A COMBINATION OF RTK GLOBAL POSITIONING SYSTEM (GPS) AND ELECTRONIC TOTAL STATIONS TOPOGRAPHIC SURVEY METHOD.

D. SEE SHEET V-128 SURVEY CONTROL PLAN FOR TEMPORARY BENCHMARK LOCATIONS.

GRADING NOTES

A. CONSTRUCTION STAKING MUST BE PERFORMED BY A LICENSED SURVEYOR.

B. GRADES BETWEEN SPOT ELEVATIONS MUST HAVE UNIFORM SLOPE UNLESS OTHERWISE INDICATED. MAINTAIN POSITIVE DRAINAGE AWAY FROM BUILDING WALLS AND DOORS.

C. SAFE CONSTRUCTION PRACTICES MUST BE UTILIZED. SHORING, BRACING, TIES, AND SUPPORTS MUST BE USED TO PROVIDE TEMPORARY INTEGRITY DURING CONSTRUCTION.

D. LOCATIONS OF UNDERGROUND UTILITIES ARE FROM RECORD INFORMATION AND AS-BUILT DRAWINGS AND SURVEY. FIELD-VERIFY LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.

E. DITCHES, SWALES AND GUTTERS ARE CONSIDERED ACTIVE STORM CONVEYANCES UNLESS OTHERWISE INDICATED. ADDRESS STORM WATER DRAINAGE AND DEWATERING OF WORK AREAS DURING CONSTRUCTION.

F. DURING WET WEATHER PERIODS, SEQUENCE CONSTRUCTION IN A MANNER THAT MINIMIZES IMPACT ON OPEN EARTHWORK AND COMPACTION OPERATIONS.

G. COMPLETELY COVER SOIL STOCKPILES WITH 6 MIL BLACK PLASTIC AND PROVIDE RESTRAINTS TO HOLD PLASTIC IN PLACE. MONITOR PLASTIC COVER AS PART OF CONTINUOUS EROSION CONTROL PLAN. PLACE SILT FENCE OR EROSION CONTROL TUBE COMPLETELY AROUND STOCKPILE.

H. HYDROSEED DISTURBED AREAS IN ACCORDANCE WITH SPEC SECTION 32 92 19. AREAS THAT ARE HYDROSEEDED MUST BE WATERED AT INTERVALS TO OBTAIN A MOIST SOIL CONDITION. FREQUENCY OF WATERING AND QUANTITY OF WATER MUST BE SUCH THAT IT ESTABLISHES A GOOD STAND OF GRASS. RUN-OFF, PUDDLING, AND WILTING MUST BE PREVENTED.

UTILITY NOTES

A. LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE PLOTTED FROM RECORD DRAWINGS AND INTERPOLATION OF PHYSICAL EVIDENCE ON THE SITE AND ARE SUBJECT TO FIELD VERIFICATION. SEE GENERAL NOTE A.

B. LOCATIONS FOR WORK MUST BE CHECKED AND COORDINATED WITH EXISTING CONDITIONS IN THE FIELD BEFORE COMMENCING CONSTRUCTION UNDER THIS SECTION OR OTHER SECTIONS.

C. THE WORKING DRAWINGS ARE GENERALLY DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND, OR ELBOW REQUIRED FOR INSTALLATION IN THE SPACE PROVIDED. THEY DO NOT SHOW EVERY DIMENSION, COMPONENT PIECE, OR FITTING REQUIRED TO COMPLETE THE PROJECT. PROVIDE A COMPLETE AND WORKING SYSTEM.

D. COORDINATE A UTILITY LOCATE 48 HOURS PRIOR TO BEGINNING UTILITY CONSTRUCTION FOR LOCATION MARK-UP OF EXISTING UTILITIES. ALSO COORDINATE THE UTILITY LOCATE WITH AAFB PERSONNEL FOR UTILITY WORK. INFORM CONTRACTING OFFICER IMMEDIATELY IF LOCATE INDICATES THAT EXISTING TYPE AND LOCATION OF EXISTING UTILITIES ARE DIFFERENT THAN SHOWN ON DRAWINGS.

E. LOCATE, PROTECT, AND AVOID DISRUPTION OF ABOVE AND BELOW GRADE UTILITIES DURING CONSTRUCTION.

F. CONCRETE THRUST BLOCKING IS REQUIRED ON PRESSURE LINE BENDS AND FITTINGS.

G. EXISTING UTILITIES AND TIE-IN POINTS ARE CONSIDERED ACTIVE UNLESS OTHERWISE NOTED.

H. CONFIRM UTILITY VALVE VAULTS, VALVES, METERS, BACKFLOW PREVENTION ASSEMBLIES, AND OTHER PUBLIC UTILITY APPURTENANCES WITH CONTRACTING OFFICER PRIOR TO BEGINNING WORK.

I. CENTER FULL PIPE SECTION OF EACH TYPE AT UTILITY CROSSINGS.

J. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO GOVERNMENT UTILITY SYSTEM RESULTING FROM CONSTRUCTION OPERATIONS; DAMAGE MUST BE REPORTED IMMEDIATELY TO THE CONTRACTING OFFICER. SEWER REPAIR MUST BE INSPECTED BY THE NAVFACMAR PWD UTILITIES VIA THE CONTRACTING OFFICER PRIOR TO BACFILLING..

K. THE CONTRACTOR IS RESPONSIBLE FOR REGULATORY FINES OR PENALTIES THAT MAY BE IMPOSED BY ENVIRONMENTAL REGULATORY AGENCIES (NAVFACMAR EV AND EPA) IN THE EVENT OF SEWAGE OVERFLOW OR SPILL RESULTING FROM C ONSTRUCTION OPERATIONS.

L. CONSTRUCTION DEWATERING INTO THE SEWER COLLECTION SYSTEM IS PROHIBITED.

M. UPON COMPLETION OF CONSTRUCTION SEDIMENT FROM SWALES AND BASINS MUST BE REMOVED PRIOR TO CONSTRUCTION OF PERMANENT BMPS.

STORMWATER MANAGEMENT NOTES

A. WHENEVER PRACTICABLE AND FEASIBLE, CONSTRUCTION MUST BE PHASED TO LIMIT DISTURBANCE TO ONLY ONE AREA OF ACTIVE CONSTRUCTION AT A TIME.

B. DISTURBED AREAS MUST BE STABILIZED AS SOON AS FEASIBLY POSSIBLE AFTER CONSTRUCTION IS COMPLETED WITHIN A DESIGNATED CONSTRUCTION AREA, AND ON NO CASE LONGER THAN 14 DAYS AFTER COMPLETION OF ACTIVE CONSTRUCTION.

C. PERIMETER SEDIMENT CONTROLS MUST BE APPLIED TO RETAIN OR FILTER CONCENTRATED RUNOFF FROM DISTURBED AREAS TO TRAP OR RETAIN SEDIMENT BEFORE IT LEAVES THE CONSTRUCTION SITE. UPLAND RUNOFF MUST BE DIVERTED AROUND EXCAVATIONS WHERE POSSIBLE.

D. SEDIMENT TRAPPING AND SETTLING DEVICES MUST BE EMPLOYED TO TRAP AND RETAIN SUSPENDED SEDIMENTS AND ALLOW TIME FOR THEM TO SETTLE OUT IN CASES WHERE PERIMETER SEDIMENT CONTROLS (E.G. SILT FENCE) ARE DEEMED INEFFECTIVE IN TRAPPING SUSPENDED SEDIMENTS ON-SITE.

E. PERTINENT CONSTRUCTION PERSONNEL ARE REQUIRED TO MEET TRAINING REQUIREMENTS IN SPECIFICATION SECTION 01 57 19 TEMPORARY ENVIRONMENTAL CONTROLS.

F. CONSTRUCTION MUST BE SCHEDULED TO MINIMIZE SOIL EXPOSURE IN THE RAINY SEASON (JULY 1 - NOV. 30) AND DURING PERIODS OF CORAL SPAWNING.

G. EROSION AND SEDIMENT CONTROL PRACTICES MUST BE AGGRESSIVELY MAINTAINED THROUGHOUT CONSTRUCTION. EROSION AND SEDIMENT CONTROL PLANS MUST HAVE AN ENFORCEABLE OPERATION AND MAINTENANCE AGREEMENT TO ENSURE THAT PRACTICES ARE MAINTAINED DURING THE CONSTRUCTION PROCESS.

PLANTING NOTES

A. NATIVE PLANT SPECIES MUST BE GROWN AND ORIGINATE ON GUAM. LANDSCAPING MUST CONTAIN 50% MINIMUM NATIVE SPECIES.

B. NOTIFY CONTRACTING OFFICER OF DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.

C. REFER TO CIVIL DRAWINGS FOR FINAL GRADING AND SIDEWALK LAYOUT.

D. TOPSOIL MUST BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS. DETERMINE AND PROVIDE QUANTITIES OF MATERIALS TO INSTALL PLANTINGS IN PLACE IN ACCORDANCE WITH THE DESIGN INTENT. COORDINATE TO ENSURE PLACEMENT TO FINISH GRADES. MAINTAIN FINISH GRADES AND DESIGNED DRAINAGE PATTERNS.

E. CHECK AND VERIFY DIMENSIONS AND CONDITIONS ON PROJECT SITE PRIOR TO CONSTRUCTION.

F. COORDINATE WORK AMONG THE VARIOUS TRADES TO AVOID CONFLICTS AND TO ENSURE THE INSTALLATION OF WORK WITHIN THE AVAILABLE SPACE.

G. CLEAR, GRUB, AND REMOVE WEEDS, STUMPS, ROOTS, ROCKS, CONCRETE DEBRIS,AND TRASH PRIOR TO PLANTING OPERATIONS.

H. GREEN WASTE GENERATED FROM CLEARING AND GRUBBING TASKS AND CONSTRUCTION ACTIVITIES MUST BE MANAGED ONSITE OR TAKEN OFFSITE TO A WASTE MANAGEMENT FACILITY IN ACCORDANCE WITH SECTION 01 57 19.

I. OBTAIN NECESSARY DIG PERMITS 15 CALENDAR DAYS PRIOR TO START OF EXCAVATION.

J. BACKFILL MIX MUST CONSIST OF FOUR (4) PARTS OF AMENDED IMPORTED PLANTING SOIL TO ONE (1) PART ORGANIC SOIL CONDITIONER (SEE SPECIFICATIONS). ADD ONE (1) POUND OF 10-30-10 FERTILIZER TO ONE (1) CUBIC YARD OF BACKFILL MIX. MIX ON PROJECT SITE PRIOR TO PLANTING OPERATIONS.

K. INDICATED BACKFILL MIX IS FOR BIDDING PURPOSES ONLY. A SOIL CHEMICAL ANALYSIS WITH RECOMMENDATIONS WILL BE REQUIRED AND TAKE PRECEDENCE OVER THE ABOVE INDICATED MIXTURE AND SPECIFICATION.

L. PERFORM AERATION, MINIMUM 4" DEPTH, USING HOLLOW TINES TO AVOID SOIL COMPACTION, ON NATURAL GRASS AREAS ON LAST DAY OF LANDSCAPE ESTABLISHMENT PERIOD.

M. GRASS AREAS DAMAGED BY CONSTRUCTION OPERATIONS INCLUDING ACCESS, STORAGE, AND LAY DOWN AREAS.

TEMPORARY IRRIGATION NOTES

A. IRRIGATION SYSTEM IS SUBJECT TO FIELD ADJUSTMENTS DUE TO UNANTICIPATED SITE CONDITIONS. AVOID CONFLICT BETWEEN UNDERGROUND UTILITIES, STRUCTURES AND PLANTINGS. LOCATE AND PROTECT EXISTING UTILITIES.

B. REFER TO SECTION 01 50 00 TEMPORARY CONSTRUCTION AND CONTROLS, AND COORDINATE WITH OICC TO DETERMINE IF POTABLE WATER WILL BE AVAILABLE AND PROVIDED BY THE GOVERNMENT.

C. PROVIDE A TEMPORARY ON-GRADE AUTOMATIC IRRIGATION SYSTEM (MUST BE APPROVED BY THE CONTRACTING OFFICER) FOR THE DURATION OF THE PLANT ESTABLISHMENT PERIOD AND NOT TO EXCEED ONE YEAR FROM ACCEPTANCE. THE TEMPORARY AUTOMATIC IRRIGATION SYSTEM MUST CONSIST OF, BUT IS NOT LIMITED TO THE FOLLOWING:

1. IRRIGATION WATER METER.
2. REDUCED PRESSURE BACKFLOW PREVENTER WITH STAINLESS STEEL ENCLOSURE.
3. SHUT OFF AND ISOLATION VALVES.
4. BOOSTER PUMP IF ADEQUATE WATER PRESSURE IS UNAVAILABLE TO SUPPORT THE TEMPORARY IRRIGATION SYSTEM REQUIREMENTS.
5. AUTOMATIC IRRIGATION CONTROLLER INCLUDING A MINIMUM OF 3 INDEPENDENT PROGRAMS, 7 DAY PROGRAM CYCLE, AND 8 START TIMES PER PROGRAM PER DAY.
6. RAIN SENSOR.
7. PVC OR HDPE MAINLINE AND DISTRIBUTION LINES, INCLUSIVE OF JOINT RESTRAINT SYSTEMS IF NECESSARY TO PREVENT PIPE MOVEMENT DURING SYSTEM OPERATION.
8. SLOW CLOSING REMOTE CONTROL VALVES CONSTRUCTED OF GLASS FILLED NYLON AND INCLUDES: FABRIC-REINFORCED DIAPHRAGM, INTERNAL SCREEN SCRUBBER MECHANISM TO PREVENT DEBRIS CLOGGING, AND PRESSURE REGULATION.
9. GEAR DRIVEN ROTOR HEADS WITH ADJUSTABLE ARC, PRESSURE REGULATION, AND CHECK VALVES FOR LARGE RADIUS AREAS.
10. FIXED SPRAY HEADS OR FIXED STREAM ROTARY HEADS WITH PRESSURE REGULATION, CHECK VALVES, AND NOZZLES WITH MATCHED PRECIPITATION RATES FOR SMALL RADIUS AREAS.
11. LABOR, MATERIALS AND APPURTENANCES REQUIRED TO INSTALL AND MAINTAIN THE TEMPORARY IRRIGATION SYSTEM.

D. SUBMIT A WATERING SCHEDULE PRIOR TO START OF LANDSCAPE ESTABLISHMENT PERIOD, FOR APPROVAL TO ASSIST THE PLANTS IN TRANSITIONING TO NO WATER AT END OF MAINTENANCE PERIOD AND REQUIRE INFREQUENT DEEP WATERING TIMES TO FURTHER ASSIST IN DEVELOPING DEEP ROOT STRUCTURES. IRRIGATION WATERING TIMES MUST BE SET FOR "OFF-PEAK" EVENING HOURS. OPERATION DURING OTHER TIMES MUST BE APPROVED BY THE CONTRACTING OFFICER.

E. IRRIGATION PIPING MAY BE INSTALLED ON-GRADE. HOWEVER, THE PIPING LAYOUT MUST NOT CREATE A TRIP HAZARD FOR PEDESTRIANS OR OBSTRUCT VEHICULAR PATHS.

F. PIPE SLEEVES MUST ALLOW FOR IRRIGATION PIPING AND THEIR RELATED COUPLINGS TO EASILY SLIDE THROUGH SLEEVE MATERIAL.

G. EXTEND SLEEVES 18" BEYOND EDGES OF PAVING OR CONSTRUCTED HARDSCAPE.

H. MARK SLEEVE LOCATIONS ON SIDES OF PAVING OR WITH IRRIGATION FLAGS IN PLANTING AREAS.

I. VERIFY SLEEVE LOCATIONS WITH CONTRACTING OFFICER PRIOR TO CONSTRUCTION OF PAVING.

J. COORDINATE INSTALLATION OF SLEEVES AND CONDUITS UNDER PAVEMENT AND THROUGH WALLS. ASSURE THAT THESE ITEMS ARE LAID PRIOR TO PLACEMENT OF PAVEMENT OR WALL STRUCTURES.

K. REMOVE THE TEMPORARY IRRIGATION SYSTEM IN ITS ENTIRETY UPON COMPLETION OF THE IRRIGATION ESTABLISHMENT PERIOD AND MUST REPLANT AREAS DAMAGED DURING THE REMOVAL OF THE TEMPORARY IRRIGATION SYSTEM.

NAVFAC

STATE OF TEXAS
JENNIFER M. HAYNES
90167
LICENSED
PROFESSIONAL ENGINEER
1/20/2026
TEXAS REGISTERED ENGINEERING FIRM F-2966 SEAL

Jacobs / BURNS McDONNELL
JACOBS/B&M, A JOINT VENTURE
1100 NORTH GLEBE ROAD
SUITE 500
ARLINGTON, VA 22201
A/E Contract No. N62742-20-D-0002
A/E Task Order No. N6274221F0315
JCG NO. 0343603 A/E INFO

APPROVED
FOR COMMANDER NAVFAC DATE 02/02/2026

ACTIVITY	
	AFIMSC APPROVAL PER NAVFAC SAT-TO CHECKLIST
SATISFACTORY TO DATE	31 DEC 2025

DES:	JMH	DRW:	SMC	REV:	ATM
PM/DM					KKK
BRANCH MANAGER					SMK
CHIEF ENG/ARCH					SMK
FIRE PROTECTION					RO

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVFAC PACIFIC
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ~ PACIFIC
JOINT REGION MARIANAS (JRM)
ANDERSEN AIR FORCE BASE
GUAM

FY24 AJJY183012 (P-012),
PDI: NORTH AIRCRAFT PARKING RAMP

GENERAL NOTES

SCALE: AS SHOWN
EPROJECTS NO.: 1665555
CONSTR CONTROL NO.
NAVFAC DRAWING NO. 17361680
SHEET 57 OF 377

C-001

REDESIGN FINAL SUBMITTAL

IF SHEET IS LESS THAN 22" X 34" REDUCED PRINT. USE GRAPHIC SCALES

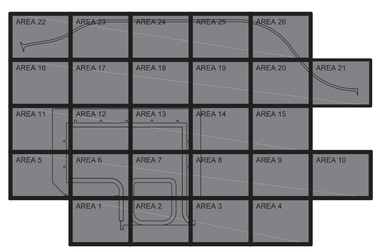
FILE NAME: U:\BLDG\NAVFAC Pacific\D3430603 - P-012 North Aircraft Parking Ramp\700 Working Documents\740 Sheets\740.01 Civil\P012_1665555_C-001.dwg
LAYOUT NAME: GENERAL NOTES
PLOTTED: 01/12/2026 7:28pm
USER: CamenoS

GENERAL NOTES

A	EXISTING IMPROVEMENTS NOT SHOWN REMOVED ON DEMOLITION PLAN SHEETS MUST BE PROTECTED IN PLACE.
B	SAWCUT A STRAIGHT EDGE ALONG EXISTING ASPHALT PAVEMENT FOR INSTALLATION OF NEW PAVEMENT.
C	PROTECT EXISTING EDGES OF PAVEMENT TO REMAIN.
D	EXISTING SECURITY FENCE MUST REMAIN IN PLACE UNTIL TEMPORARY OR PERMANENT FENCING IS INSTALLED AND ACCEPTED. THE AIRFIELD MUST BE SECURE AT ALL TIMES.
E	COMPLY WITH ENVIRONMENTAL REQUIREMENTS AND REGULATIONS. REFER TO DIVISIONS 01 AND 02 SPECIFICATIONS.
F	CLEAR AND GRUB AND REMOVE WEEDS, STUMPS, ROOTS, ROCKS, CONCRETE DEBRIS AND TRASH.
G	GREEN WASTE GENERATED FROM CLEARING AND GRUBBING TASKS AND CONSTRUCTION ACTIVITIES MUST BE MANAGED ONSITE OR TAKEN OFFSITE TO A WASTE MANAGEMENT FACILITY IN ACCORDANCE WITH SECTION 01 57 19.
H	OBTAIN NECESSARY DIG PERMITS 15 CALENDAR DAYS PRIOR TO THE START OF EXCAVATION.

LEGEND

- REMOVE ASPHALT PAVEMENT
- REMOVE DIRT ROAD
- EXISTING CONCRETE PAVEMENT TO REMAIN
- EXISTING ASPHALT PAVEMENT TO REMAIN
- LIMITS OF CLEARING AND GRUBBING
- LIMITS OF DISTURBANCE
- PFAS EXCAVATION AREA
- PFAS RELOCATION AREA
- TEMPORARY FENCE (FREE ZONE BOUNDARY), RE: A1/CS506
- EXISTING SINKHOLE
- W_x REMOVE EXISTING WATERLINE
- W_x EXISTING WATERLINE
- E_x EXISTING UNDERGROUND ELECTRIC
- C_x EXISTING UNDERGROUND COMM.
- $FUEL_x$ EXISTING UNDERGROUND MAIN FUEL PIPE
- SS_x EXISTING SANITARY SEWER



OVERALL
KEY PLAN

GRAPHIC SCALE

0 100' 200' 400'

SCALE: 1"=200'

NORTH ARROW

TRUE N

A1 OVERALL DEMOLITION PLAN
SCALE: 1" = 200'

IF SHEET IS LESS THAN 22" X 34"
REDUCED PRINT. USE GRAPHIC SCALES

NAVFAC

STATE OF TEXAS
JENNIFER M. HAYNES
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JEG NO. 03430603
A/E INFO

APPROVED
FOR COMMANDER NAVFAC DATE 02/02/2026

ACTIVITY
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SATISFACTORY TO DATE 31 DEC 2025

DES:	JMH	DRW:	SMC	REV:	ATM
PM/DM					KKK
BRANCH MANAGER					SMK
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FIRE PROTECTION					RO

DEPARTMENT OF THE NAVY
NAVFAC PACIFIC
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NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND – PACIFIC
JOINT REGION MARIANAS (JRM)
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FY24 AJJY183012 (P-012),
PDI: NORTH AIRCRAFT PARKING RAMP

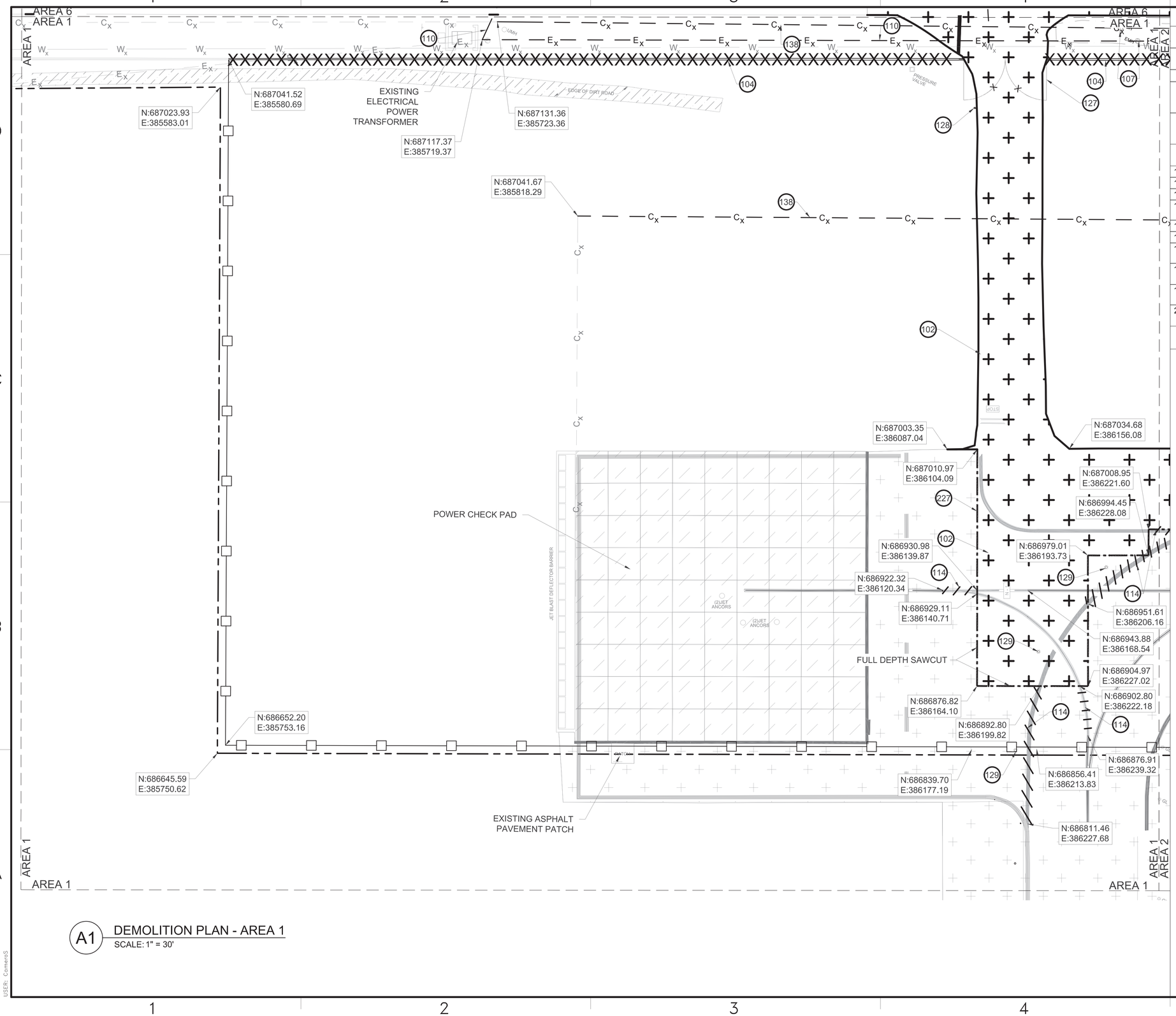
OVERALL DEMOLITION PLAN

SCALE: AS SHOWN
EPROJECTS NO.: 1665555
CONSTR CONTROL NO.
NAVFAC DRAWING NO. 17361681
SHEET 58 OF 377

CD101

REDESIGN FINAL SUBMITTAL

FILE NAME: U:\BLDG\NAVFAC Pacific\03430603 – P-012 North Aircraft Parking Ramp\700 Working Documents\740 Sheets\740.01 Civil\P012_1665555_CD101.dwg
LAYOUT NAME: OVERALL DEMOLITION PLAN
PLOTTED: 01/27/2026 9:14pm
USER: CamraS



A1 DEMOLITION PLAN - AREA 1
SCALE: 1" = 30'

GENERAL NOTES

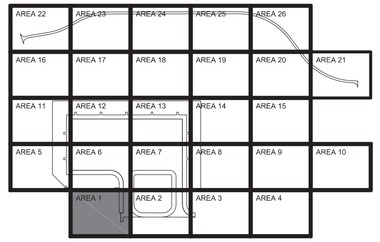
A	EXISTING IMPROVEMENTS NOT SHOWN REMOVED ON DEMOLITION PLAN SHEETS MUST BE PROTECTED IN PLACE.
B	SAW CUT A STRAIGHT EDGE ALONG EXISTING ASPHALT PAVEMENT FOR INSTALLATION OF NEW PAVEMENT.
C	PROTECT EXISTING EDGES OF PAVEMENT TO REMAIN.
D	EXISTING SECURITY FENCE MUST REMAIN IN PLACE UNTIL TEMPORARY OR PERMANENT FENCING IS INSTALLED AND ACCEPTED. THE AIRFIELD MUST BE SECURE AT ALL TIMES.
E	COMPLY WITH ENVIRONMENTAL REQUIREMENTS AND REGULATIONS. REFER TO DIVISIONS 01 AND 02 SPECIFICATIONS.

KEYNOTES

102	REMOVE EXISTING ASPHALT PAVEMENT
104	REMOVE EXISTING CONCRETE WALL
107	REMOVE EXISTING ELECTRICAL MANHOLE
110	REMOVE EXISTING UNDERGROUND ELECTRIC, RE: ED101 & ED102
114	REMOVE EXISTING PAVEMENT MARKING
127	REMOVE EXISTING GATE
128	REMOVE EXISTING GATE KEYPAD AND ASSOCIATED CABLE/CONDUIT
129	REMOVE EXISTING TAXIWAY EDGE LIGHT AND REPLACE WITH BLANK COVERS, RE: ED101
138	REMOVE EXISTING UNDERGROUND COMM LINE, RE: TD101 & TD102
227	RECONSTRUCT EXIST ASPHALT EDGE BEFORE TYING INTO NEW PAVEMENT EDGE, RE: A3/CS502

LEGEND

- REMOVE ASPHALT PAVEMENT
- EXISTING CONCRETE PAVEMENT TO REMAIN
- EXISTING ASPHALT PAVEMENT TO REMAIN
- EXISTING DIRT ROAD
- LIMITS OF DISTURBANCE
- REMOVE EXISTING CONCRETE WALL
- REMOVE EXISTING PAVEMENT MARKING
- FULL DEPTH SAWCUT
- C_x REMOVE EXISTING UNDERGROUND COMM LINE, RE: TD101 & TD102
- E_x REMOVE EXISTING UNDERGROUND ELECTRIC, RE: ED101 & ED102
- EXISTING CONCRETE WALL TO REMAIN
- W_x EXISTING WATERLINE TO REMAIN
- E_x EXISTING UNDERGROUND ELECTRIC TO REMAIN
- EXISTING PAVEMENT MARKING TO REMAIN
- C_x EXISTING UNDERGROUND COMM LINE TO REMAIN
- TEMPORARY FENCE (FREE ZONE BOUNDARY), RE: A1/CS506



AREA 1
KEY PLAN

GRAPHIC SCALE
0 15' 30' 60'
SCALE: 1"=30'

NORTH ARROW
TRUE N

STATE OF TEXAS
JENNIFER M. HAYNES
90167
LICENSED
PROFESSIONAL ENGINEER
1/20/2026
TEXAS REGISTERED ENGINEERING FIRM F-2966 SEAL

Jacobs / BURNS McDONNELL
JACOBS/B&M, A JOINT VENTURE
1100 NORTH GLEBE ROAD
SUITE 500
ARLINGTON, VA 22201
A/E Contract No. N62742-20-D-0002
A/E Task Order No. N6274221F0315
JCG NO. 03430603
A/E INFO

APPROVED
FOR COMMANDER NAVFAC DATE 02/02/2026

ACTIVITY
AFIMSC APPROVAL PER NAVFAC SAT-TO CHECKLIST

SATISFACTORY TO DATE 31 DEC 2025

DES: JMH	DRW: SMC	REV: ATM
PM/DM		KKK
BRANCH MANAGER		SMK
CHIEF ENG/ARCH		SMK
FIRE PROTECTION		RO

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVFAC PACIFIC
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND – PACIFIC
JOINT REGION MARIANAS (JRM)
ANDERSEN AIR FORCE BASE
GUAM

FY24 AJJY183012 (P-012)
PDI: NORTH AIRCRAFT PARKING RAMP
DEMOLITION PLAN - AREA 1

SCALE: AS SHOWN
EPROJECTS NO.: 1665555
CONSTR CONTROL NO.
NAVFAC DRAWING NO. 17361682
SHEET 59 OF 377

CD102

REDESIGN FINAL SUBMITTAL

IF SHEET IS LESS THAN 22" X 34" REDUCED PRINT. USE GRAPHIC SCALES

FILE NAME: U:\BLDG\NAVFAC Pacific\D3430603 – P-012 North Aircraft Parking Ramp\700 Working Documents\740 Sheets\740.01 Civil\P012_1665555_CD102.dwg
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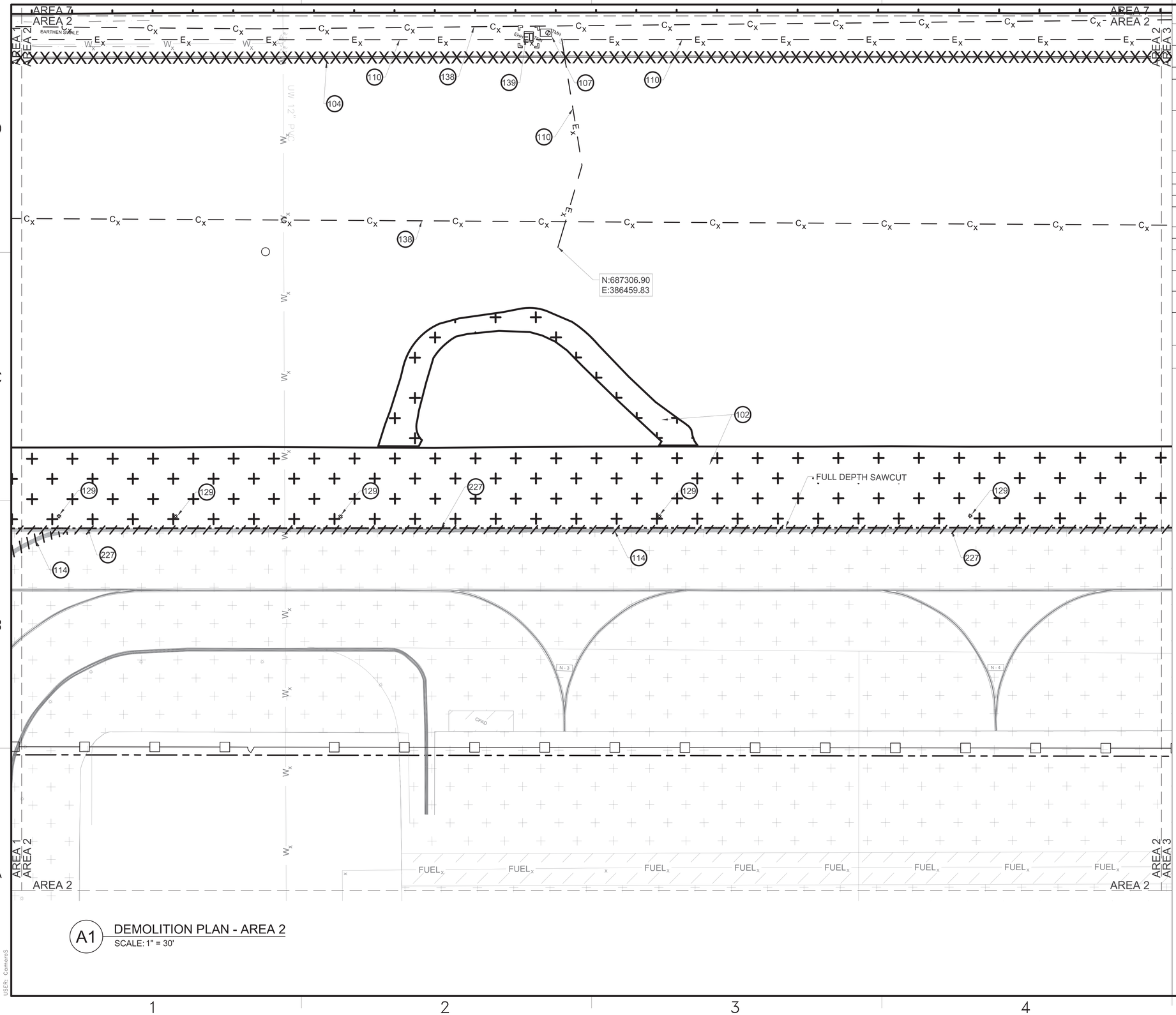
PLOTTED: 01/12/2026 7:32pm
USER: CamerdS



A1 DEMOLITION PLAN - AREA 2
SCALE: 1" = 30'

GENERAL NOTES

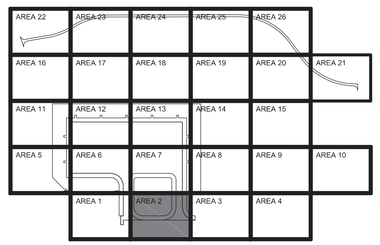
A	EXISTING IMPROVEMENTS NOT SHOWN REMOVED ON DEMOLITION PLAN SHEETS MUST BE PROTECTED IN PLACE.
B	CUT A STRAIGHT EDGE ALONG EXISTING ASPHALT PAVEMENT FOR INSTALLATION OF NEW PAVEMENT.
C	PROTECT EXISTING EDGES OF PAVEMENT TO REMAIN.
D	EXISTING SECURITY FENCE MUST REMAIN IN PLACE UNTIL TEMPORARY OR PERMANENT FENCING IS INSTALLED AND ACCEPTED. THE AIRFIELD MUST BE SECURE AT ALL TIMES.
E	COMPLY WITH ENVIRONMENTAL REQUIREMENTS AND REGULATIONS. REFER TO DIVISIONS 01 AND 02 SPECIFICATIONS.

KEYNOTES

102	REMOVE EXISTING ASPHALT PAVEMENT
104	REMOVE EXISTING CONCRETE WALL
107	REMOVE EXISTING ELECTRICAL MANHOLE
110	REMOVE EXISTING UNDERGROUND ELECTRIC, RE: ED101 & ED102
114	REMOVE EXISTING PAVEMENT MARKING
129	REMOVE EXISTING TAXIWAY EDGE LIGHT, RE: ED101 & ED102
138	REMOVE EXISTING UNDERGROUND COMM LINE, RE: TD101 & TD102
139	REMOVE EXISTING PAD-MOUNTED SWITCH AND FOUNDATION, RE: ED101
227	RECONSTRUCT EXIST ASPHALT EDGE BEFORE TYING INTO NEW PAVEMENT EDGE, RE: A3/CS502

LEGEND

- REMOVE ASPHALT PAVEMENT
- EXISTING ASPHALT PAVEMENT TO REMAIN
- LIMITS OF DISTURBANCE
- REMOVE EXISTING CONCRETE WALL
- REMOVE EXISTING PAVEMENT MARKING
- FULL DEPTH SAWCUT
- C_X — REMOVE EXISTING UNDERGROUND COMM LINE, RE: TD101 & TD102
- E_X — REMOVE EXISTING UNDERGROUND ELECTRIC, RE: ED101 & ED102
- W_X — EXISTING WATERLINE TO REMAIN
- $FUEL_X$ — EXISTING UNDERGROUND MAIN FUEL PIPE TO REMAIN
- EXISTING PAVEMENT MARKING TO REMAIN
- TEMPORARY FENCE (FREE ZONE BOUNDARY), RE: A1/CS506



AREA 2
KEY PLAN

GRAPHIC SCALE
0 15' 30' 60'
SCALE: 1"=30'

NORTH ARROW
TRUE N

IF SHEET IS LESS THAN 22" X 34" REDUCED PRINT. USE GRAPHIC SCALES

NAVFAC

STATE OF TEXAS
JENNIFER M. HAYNES
90167
LICENSED PROFESSIONAL ENGINEER
1/20/2026
TEXAS REGISTERED ENGINEERING FIRM F-2966 SEAL

Jacobs / BURNS MCDONNELL
JACOBS/B&M, A JOINT VENTURE
1100 NORTH GLEBE ROAD
SUITE 500
ARLINGTON, VA 22201
A/E Contract No. N62742-20-D-0002
A/E Task Order No. N6274221F0315
JCG NO. 03430603
A/E INFO

APPROVED
FOR COMMANDER NAVFAC DATE 02/02/2026

ACTIVITY
AFIMSC APPROVAL PER NAVFAC SAT-TO CHECKLIST

SATISFACTORY TO DATE					31 DEC 2025
DES:	JMH	DRW:	SMC	REV:	ATM
PM/DM					KKK
BRANCH MANAGER					SMK
CHIEF ENG/ARCH					SMK
FIRE PROTECTION					RO

DEPARTMENT OF THE NAVY
NAVFAC PACIFIC
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND – PACIFIC
JOINT REGION MARIANAS (JRM)
ANDERSEN AIR FORCE BASE
GUAM

FY24 AJUY183012 (P-012),
PDI: NORTH AIRCRAFT PARKING RAMP

DEMOLITION PLAN - AREA 2

SCALE: AS SHOWN
EPROJECTS NO.: 1665555
CONSTR CONTROL NO.
NAVFAC DRAWING NO. 17361683
SHEET 60 OF 377

CD103

REDESIGN FINAL SUBMITTAL

FILE NAME: U:\BLDG\NAVFAC Pacific\D3430603 – P-012 North Aircraft Parking Ramp\700 Working Documents\740 Sheets\740.01 Civil\P012_1665555_CD103.dwg
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PLOTTED: 01/12/2026 7:54pm
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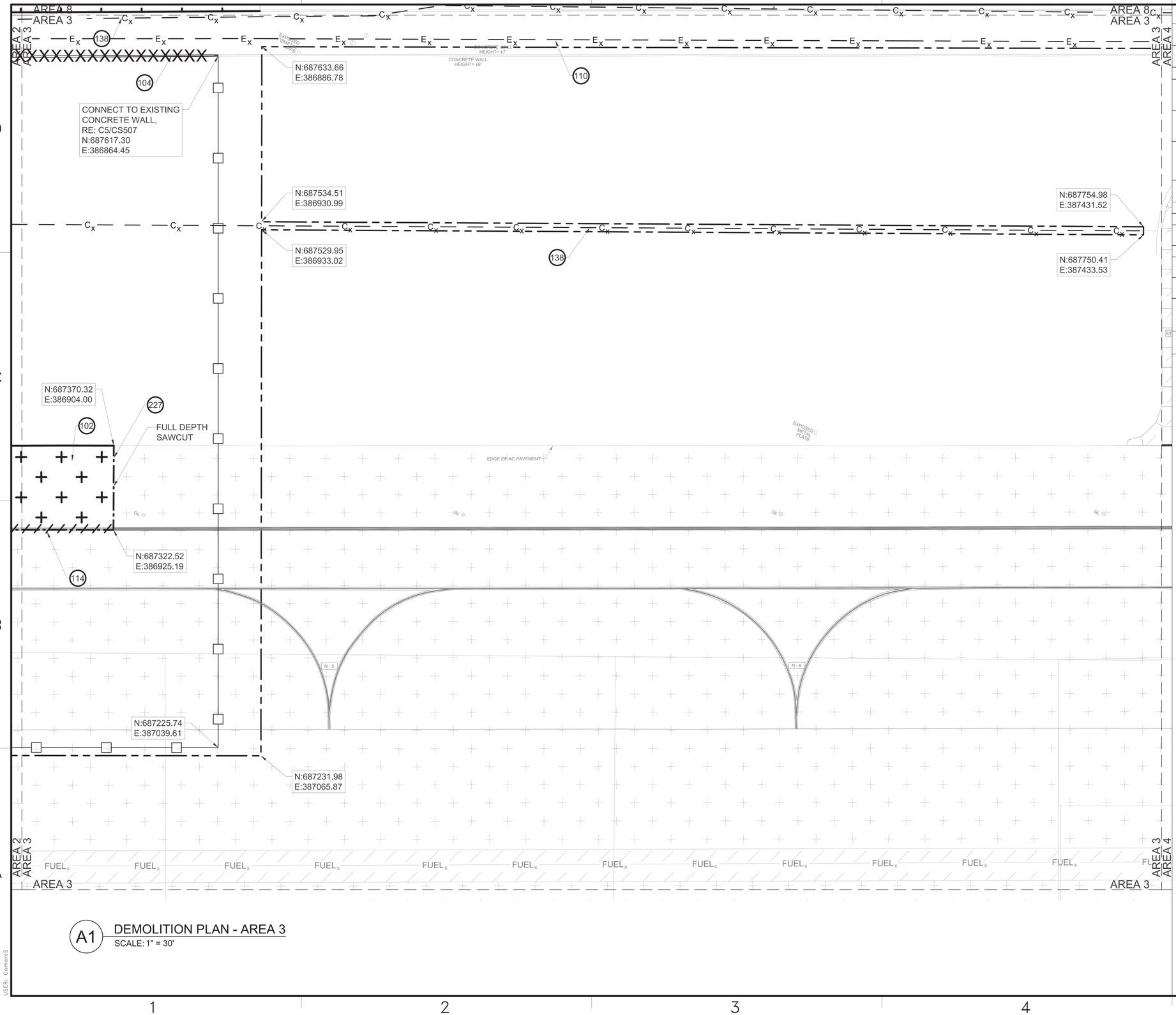


GENERAL NOTES

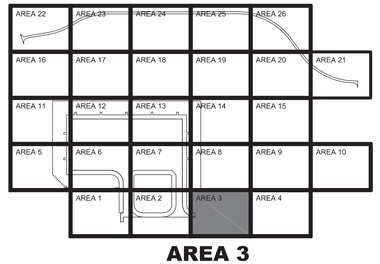
A	EXISTING IMPROVEMENTS NOT SHOWN REMOVED ON DEMOLITION PLAN SHEETS MUST BE PROTECTED IN PLACE.
B	CUT A STRAIGHT EDGE ALONG EXISTING ASPHALT PAVEMENT FOR INSTALLATION OF NEW PAVEMENT.
C	PROTECT EXISTING EDGES OF PAVEMENT TO REMAIN.
D	EXISTING SECURITY FENCE MUST REMAIN IN PLACE UNTIL TEMPORARY OR PERMANENT FENCING IS INSTALLED AND ACCEPTED. THE AIRFIELD MUST BE SECURE AT ALL TIMES.
E	COMPLY WITH ENVIRONMENTAL REQUIREMENTS AND REGULATIONS. REFER TO DIVISIONS 01 AND 02 SPECIFICATIONS.

KEYNOTES

102	REMOVE EXISTING ASPHALT PAVEMENT
104	REMOVE EXISTING CONCRETE WALL
110	REMOVE EXISTING UNDERGROUND ELECTRIC, RE: ED101 & ED102
114	REMOVE EXISTING PAVEMENT MARKING
138	REMOVE EXISTING UNDERGROUND COMM LINE, RE: TD101 & TD102
227	RECONSTRUCT EXIST ASPHALT EDGE BEFORE TYING INTO NEW PAVEMENT EDGE, RE: A3/CS502

LEGEND

- REMOVE ASPHALT PAVEMENT
- EXISTING CONCRETE PAVEMENT TO REMAIN
- EXISTING ASPHALT PAVEMENT TO REMAIN
- LIMITS OF DISTURBANCE
- REMOVE EXISTING CONCRETE WALL
- REMOVE EXISTING PAVEMENT MARKING
- FULL DEPTH SAWCUT
- C_x — REMOVE EXISTING UNDERGROUND COMM LINE, RE: TD101 & TD102
- E_x — REMOVE EXISTING UNDERGROUND ELECTRIC, RE: ED101 & ED102
- $FUEL_x$ — EXISTING UNDERGROUND MAIN FUEL PIPE TO REMAIN
- EXISTING PAVEMENT MARKING TO REMAIN
- TEMPORARY FENCE (FREE ZONE BOUNDARY), RE: A1/CS506



AREA 3
KEY PLAN

GRAPHIC SCALE

0 15' 30' 60'

SCALE: 1"=30'

NORTH ARROW

TRUE N

A1 DEMOLITION PLAN - AREA 3
SCALE: 1" = 30'

STATE OF TEXAS
JENNIFER M. HAYNES
90167
LICENSED
PROFESSIONAL ENGINEER
1/20/2026
TEXAS REGISTERED ENGINEERING FIRM F-2966 SEAL

Jacobs / BURNS McDONNELL
JACOBS/B&M, A JOINT VENTURE
1100 NORTH GLEBE ROAD
SUITE 500
ARLINGTON, VA 22201
A/E Contract No./N62742-20-D-0002
A/E Task Order No./N6274221F0315
JCG NO./3430603
A/E INFO

APPROVED
FOR COMMANDER NAVFAC DATE 02/02/2026

ACTIVITY
AFIMSC APPROVAL PER NAVFAC SAT-TO CHECKLIST
SATISFACTORY TO DATE 31 DEC 2025

DES:	JMH	DRW:	SMC	REV: ATM
PM/DM				KKK
BRANCH MANAGER				SMK
CHIEF ENG/ARCH				SMK
FIRE PROTECTION				RO

DEPARTMENT OF THE NAVY
NAVFAC PACIFIC
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND – PACIFIC
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND – JOINT REGION MARIANAS (JRM)
ANDERSEN AIR FORCE BASE
GUAM

FY24 AUY183012 (P-012);
PDI: NORTH AIRCRAFT PARKING RAMP

DEMOLITION PLAN - AREA 3

SCALE: AS SHOWN
EPROJECTS NO.: 1665555
CONSTR CONTROL NO.
NAVFAC DRAWING NO. 17361684
SHEET 61 OF 377

CD104

REDESIGN FINAL SUBMITTAL

IF SHEET IS LESS THAN 22" X 34" REDUCED PRINT. USE GRAPHIC SCALES

FILE NAME: U:\BLDG\NAVFAC Pacific\D3430603 – P-012 North Aircraft Parking Ramp\700 Working Documents\740 Sheets\740.01 Civil\P012_1665555_CD104.dwg
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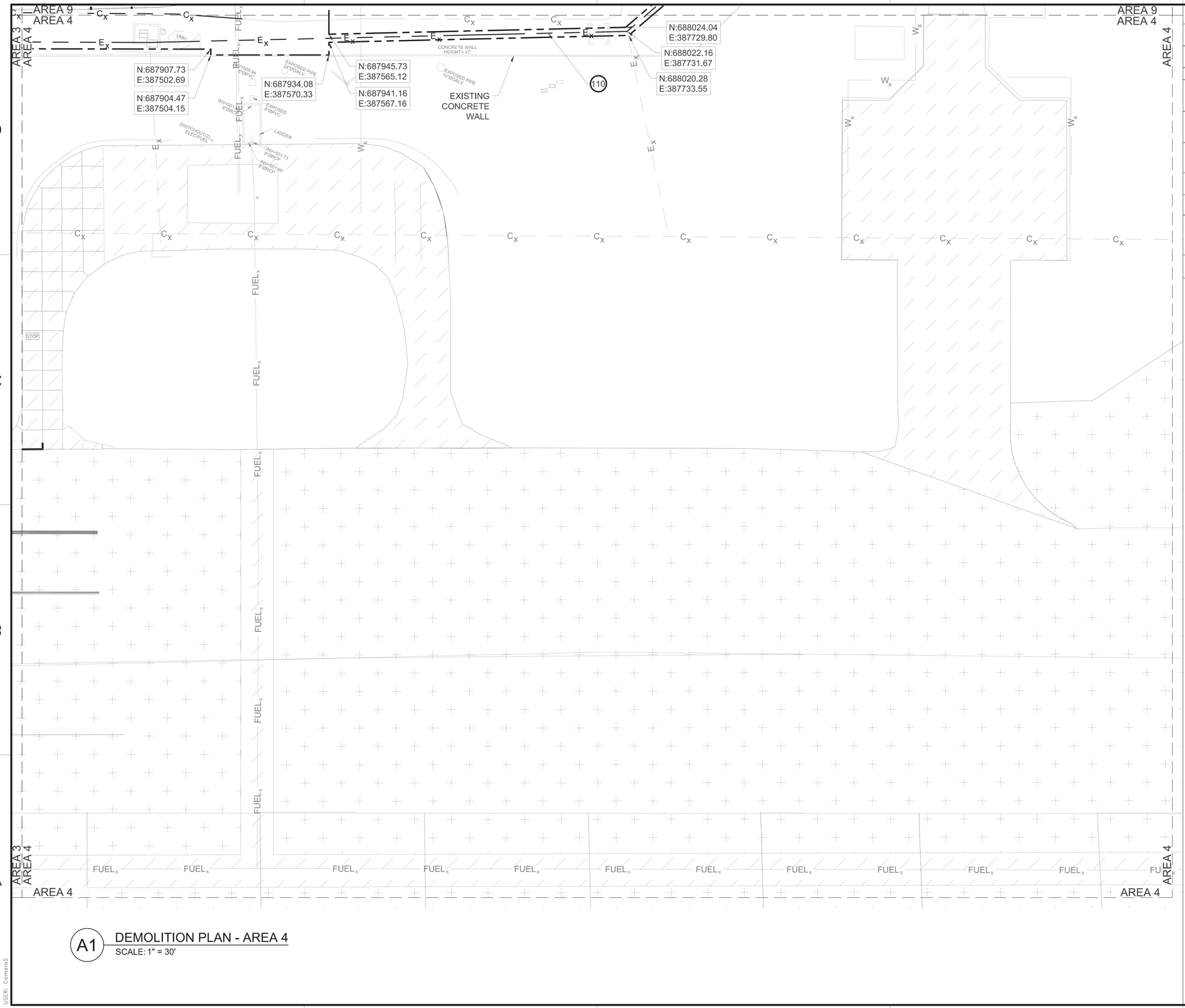


A1 DEMOLITION PLAN - AREA 4
SCALE: 1" = 30'

GENERAL NOTES

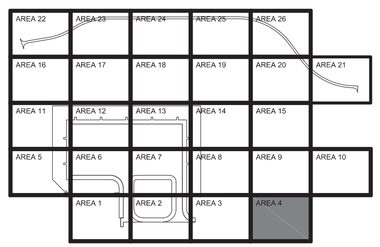
A	EXISTING IMPROVEMENTS NOT SHOWN REMOVED ON DEMOLITION PLAN SHEETS MUST BE PROTECTED IN PLACE.
B	CUT A STRAIGHT EDGE ALONG EXISTING ASPHALT PAVEMENT FOR INSTALLATION OF NEW PAVEMENT.
C	PROTECT EXISTING EDGES OF PAVEMENT TO REMAIN.
D	EXISTING SECURITY FENCE MUST REMAIN IN PLACE UNTIL TEMPORARY OR PERMANENT FENCING IS INSTALLED AND ACCEPTED. THE AIRFIELD MUST BE SECURE AT ALL TIMES.
E	COMPLY WITH ENVIRONMENTAL REQUIREMENTS AND REGULATIONS. REFER TO DIVISIONS 01 AND 02 SPECIFICATIONS.

KEYNOTES

110	REMOVE EXISTING UNDERGROUND ELECTRIC, RE: ED101 & ED102

LEGEND

- EXISTING CONCRETE PAVEMENT TO REMAIN
- EXISTING ASPHALT PAVEMENT TO REMAIN
- LIMITS OF DISTURBANCE
- E_x — REMOVE EXISTING UNDERGROUND ELECTRIC, RE: ED101 & ED102
- EXISTING CONCRETE WALL TO REMAIN
- W_x — EXISTING WATERLINE TO REMAIN
- E_x — EXISTING UNDERGROUND ELECTRIC TO REMAIN
- C_x — EXISTING UNDERGOUND COMM. TO REMAIN
- $FUEL_x$ — EXISTING UNDERGROUND MAIN FUEL PIPE TO REMAIN
- EXISTING PAVEMENT MARKING TO REMAIN
- Ⓣ EXISTING COMMUNICATION JUNCTION BOX TO REMAIN
- Ⓔ EXISTING ELECTRICAL MANHOLE/HANDHOLE TO REMAIN



AREA 4
KEY PLAN

GRAPHIC SCALE
0 15' 30' 60'
SCALE: 1"=30'

NORTH ARROW
TRUE N

NAVFAC

STATE OF TEXAS
JENNIFER M. HAYNES
90167
LICENSED PROFESSIONAL ENGINEER
1/20/2026
TEXAS REGISTERED ENGINEERING FIRM F-2966 SEAL

Jacobs / BURNS MCDONNELL
JACOBS/B&M, A JOINT VENTURE
1100 NORTH GLEBE ROAD
SUITE 500
ARLINGTON, VA 22201
A/E Contract No.:N62742-20-D-0002
A/E Task Order No.:N6274221F0315
JCG NO.:C3430603
A/E INFO

APPROVED
FOR COMMANDER NAVFAC DATE 02/02/2026

ACTIVITY
AFIMSC APPROVAL PER NAVFAC SAT-TO CHECKLIST

SATISFACTORY TO DATE 31 DEC 2025

DES:	JMH	DRW:	SMC	REV:	ATM
PM/DM					KKK
BRANCH MANAGER					SMK
CHIEF ENG/ARCH					SMK
FIRE PROTECTION					RO

DEPARTMENT OF THE NAVY
NAVFAC PACIFIC
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ~ PACIFIC
JOINT REGION MARIANAS (JRM)
ANDERSEN AIR FORCE BASE
GUAM

FY24 AJJY183012 (P-012),
PDI: NORTH AIRCRAFT PARKING RAMP

DEMOLITION PLAN - AREA 4

SCALE: AS SHOWN
EPROJECTS NO.: 1665555
CONSTR CONTROL NO.
NAVFAC DRAWING NO. 17361685
SHEET 62 OF 377

CD105

REDESIGN FINAL SUBMITTAL

IF SHEET IS LESS THAN 22" X 34" REDUCED PRINT. USE GRAPHIC SCALES

FILE NAME: U:\BLDG\NAVFAC Pacific\D3430603 – P-012 North Aircraft Parking Ramp\700 Working Documents\740 Sheets\740.01 Civil\P012_1665555_CD105.dwg
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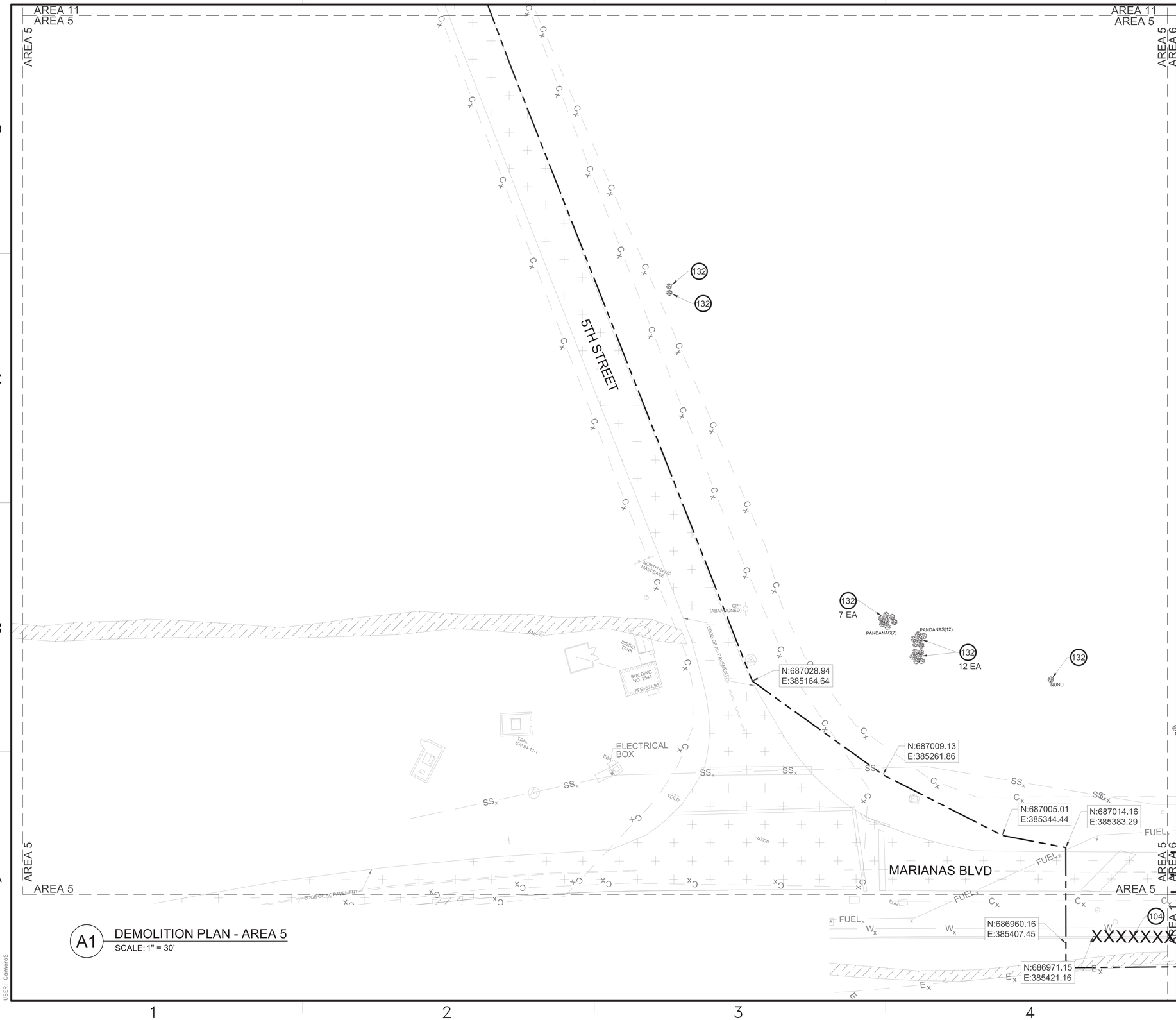
USER: Cameron5



A1 DEMOLITION PLAN - AREA 5
SCALE: 1" = 30'

GENERAL NOTES

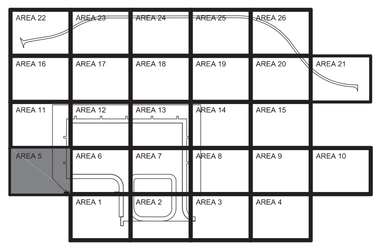
A	EXISTING IMPROVEMENTS NOT SHOWN REMOVED ON DEMOLITION PLAN SHEETS MUST BE PROTECTED IN PLACE.
B	COMPLY WITH ENVIRONMENTAL REQUIREMENTS AND REGULATIONS. REFER TO DIVISIONS 01 AND 02 SPECIFICATIONS.

KEYNOTES

104	REMOVE EXISTING CONCRETE WALL
132	REMOVE EXISTING TREE (NUMBERS SHOWN ARE APPROXIMATE)

LEGEND

- EXISTING ASPHALT PAVEMENT TO REMAIN
- EXISTING DIRT ROAD
- LIMITS OF DISTURBANCE
- C_X EXISTING UNDERGROUND COMM. TO REMAIN
- $FUEL_X$ EXISTING UNDERGROUND MAIN FUEL PIPE TO REMAIN
- SS_X EXISTING SANITARY SEWER LINE TO REMAIN
- XXXXXX REMOVE EXISTING CONCRETE WALL
- EXISTING COMMUNICATION JUNCTION BOX TO REMAIN
- SURVEY CONTROL POINT
- REMOVE EXISTING TREE



AREA 5
KEY PLAN

GRAPHIC SCALE
0 15' 30' 60'
SCALE: 1"=30'

NORTH ARROW
TRUE N

JENNIFER M. HAYNES
90167
LICENSED PROFESSIONAL ENGINEER
1/20/2026
TEXAS REGISTERED ENGINEERING FIRM F-2966 SEAL

JACOBS/B&M, A JOINT VENTURE
1100 NORTH GLEBE ROAD
SUITE 500
ARLINGTON, VA 22201
A/E Contract No./N62742-20-D-0002
A/E Task Order No./N6274221F0315
JCG NO./3430603
A/E INFO

APPROVED
FOR COMMANDER NAVFAC DATE 02/02/2026

ACTIVITY
AFIMSC APPROVAL PER NAVFAC SAT-TO CHECKLIST

SATISFACTORY TO DATE	31 DEC 2025
DES: JMH	DRW: SMC REV: ATM
PM/DM	KKK
BRANCH MANAGER	SMK
CHIEF ENG/ARCH	SMK
FIRE PROTECTION	RO

DEPARTMENT OF THE NAVY
NAVFAC PACIFIC
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND – PACIFIC
JOINT REGION MARIANAS (JRM)
ANDERSEN AIR FORCE BASE
GUAM

FY24 AJJY183012 (P-012),
PDI: NORTH AIRCRAFT PARKING RAMP

DEMOLITION PLAN - AREA 5

SCALE:	AS SHOWN
EPROJECTS NO.:	1665555
CONSTR CONTROL NO.	
NAVFAC DRAWING NO.	17361686
SHEET	63 OF 377

CD106

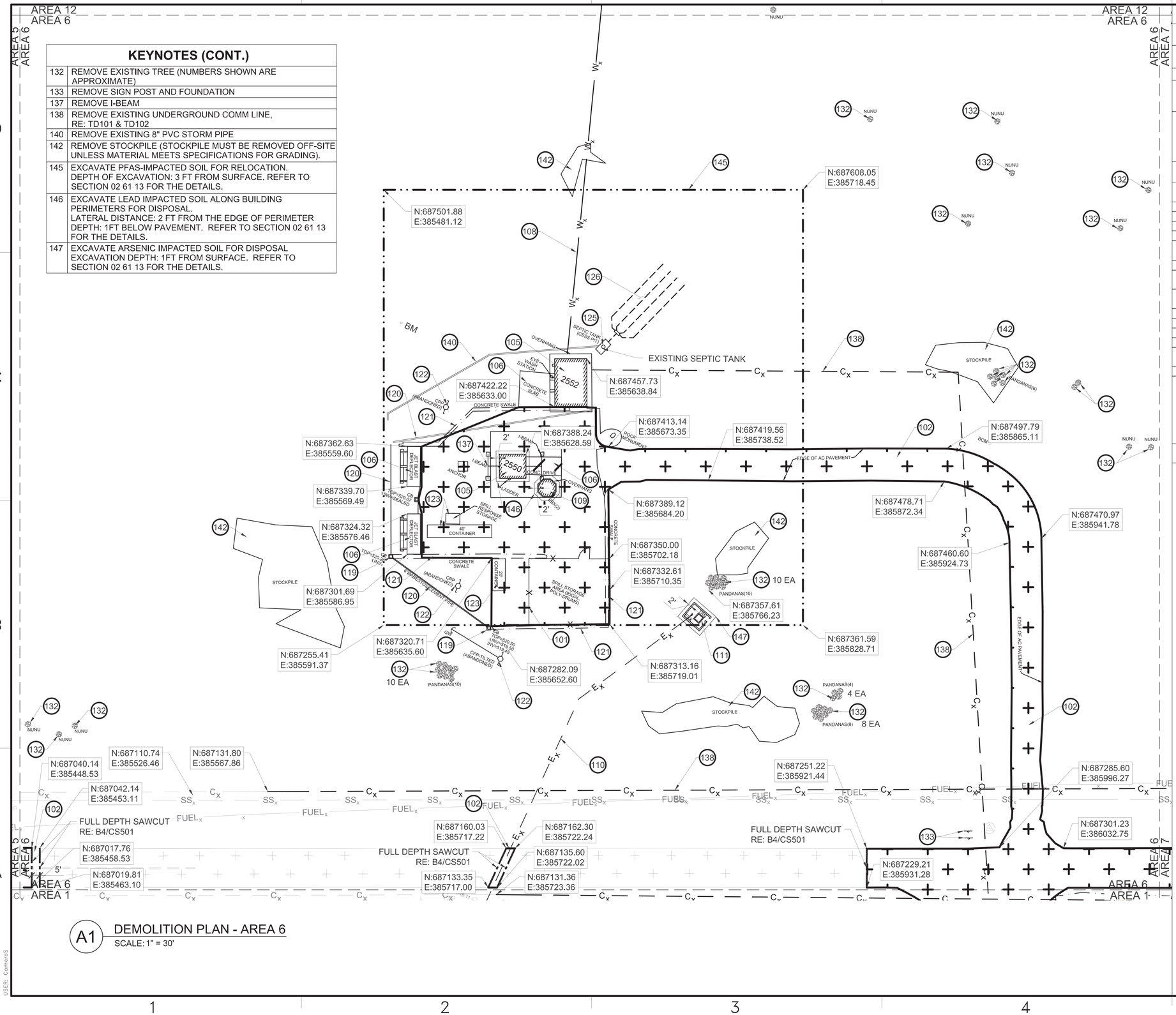
REDESIGN FINAL SUBMITTAL

IF SHEET IS LESS THAN 22" X 34" REDUCED PRINT. USE GRAPHIC SCALES

FILE NAME: U:\BLDG\NAVFAC Pacific\D3430603 – P-012 North Aircraft Parking Ramp\700 Working Documents\740 Sheets\740.01 Civil\P012_1665555_CD106.dwg
LAYOUT NAME: DEMOLITION PLAN – AREA 5
PLOTTED: 01/12/2026 7:39pm
USER: Cameron5

KEYNOTES (CONT.)

132	REMOVE EXISTING TREE (NUMBERS SHOWN ARE APPROXIMATE)
133	REMOVE SIGN POST AND FOUNDATION
137	REMOVE I-BEAM
138	REMOVE EXISTING UNDERGROUND COMM LINE, RE: TD101 & TD102
140	REMOVE EXISTING 8" PVC STORM PIPE
142	REMOVE STOCKPILE (STOCKPILE MUST BE REMOVED OFF-SITE UNLESS MATERIAL MEETS SPECIFICATIONS FOR GRADING).
145	EXCAVATE PFAS-IMPACTED SOIL FOR RELOCATION. DEPTH OF EXCAVATION: 3 FT FROM SURFACE. REFER TO SECTION 02 61 13 FOR THE DETAILS.
146	EXCAVATE LEAD IMPACTED SOIL ALONG BUILDING PERIMETERS FOR DISPOSAL. LATERAL DISTANCE: 2 FT FROM THE EDGE OF PERIMETER DEPTH: 1FT BELOW PAVEMENT. REFER TO SECTION 02 61 13 FOR THE DETAILS.
147	EXCAVATE ARSENIC IMPACTED SOIL FOR DISPOSAL EXCAVATION DEPTH: 1FT FROM SURFACE. REFER TO SECTION 02 61 13 FOR THE DETAILS.



A1 DEMOLITION PLAN - AREA 6
SCALE: 1" = 30'

GENERAL NOTES

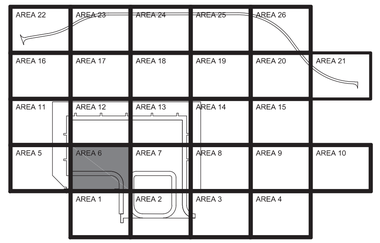
A	EXISTING IMPROVEMENTS NOT SHOWN REMOVED ON DEMOLITION PLAN SHEETS MUST BE PROTECTED IN PLACE.
B	CUT A STRAIGHT EDGE ALONG EXISTING ASPHALT PAVEMENT FOR INSTALLATION OF NEW PAVEMENT.
C	PROTECT EXISTING EDGES OF PAVEMENT TO REMAIN.
D	EXISTING SECURITY FENCE MUST REMAIN IN PLACE UNTIL TEMPORARY OR PERMANENT FENCING IS INSTALLED AND ACCEPTED. THE AIRFIELD MUST BE SECURE AT ALL TIMES.
E	COMPLY WITH ENVIRONMENTAL REQUIREMENTS AND REGULATIONS. REFER TO DIVISIONS 01 AND 02 SPECIFICATIONS. REFER TO SECTIONS 02 82 00; 02 83 00; 02 84 16; AND 02 84 33 FOR LOCATIONS OF HAZARDOUS BUILDING MATERIALS AND PROJECT REQUIREMENTS.
F	EXCAVATE PFAS, LEAD, OR ARSENIC- IMPACTED SOIL FOR RELOCATION. REFER TO CD115, RELOCATION AREA.

KEYNOTES

101	REMOVE EXISTING SECURITY FENCE
102	REMOVE EXISTING ASPHALT PAVEMENT
105	REMOVE EXISTING BUILDING AND FOUNDATION
106	REMOVE EXISTING CONCRETE PAD
108	REMOVE EXISTING WATERLINE (ASSUME ASBESTOS CEMENT PIPES)
109	REMOVE EXISTING B2551
110	REMOVE EXISTING UNDERGROUND ELECTRIC, RE: ED101 & ED102
111	REMOVE EXISTING PAD-MOUNTED TRANSFORMER AND FOUNDATION, RE: ED101
119	REMOVE EXISTING CATCH BASIN
120	REMOVE EXISTING 6" ABESTOS CEMENT STORM PIPE
121	REMOVE EXISTING CONCRETE SWALE
122	REMOVE EXISTING ABANDONED POWER POLE
123	REMOVE EXISTING SPILL RESPONSE STORAGE AND 20' AND 40' CONTAINER
125	REMOVE EXISTING SEPTIC TANK
126	REMOVE EXISTING LEACH FIELD AND ASSOCIATED PIPING. ASSUME ENCOUNTERING RESIDUAL SOIL CONTAMINATION, INCLUDING FUEL CONTAMINATION FROM THE EXISTING LEACHING FIELD AND FORMER DEMOLISHED OIL/WATER SEPARATOR. ASSUME THE LEVEL OF CONTAMINATION IS BELOW THE SOIL SCREENING LEVELS. REFER TO SECTION 02 61 13 FOR THE DETAILS.

LEGEND

- REMOVE ASPHALT PAVEMENT
- EXISTING ASPHALT PAVEMENT TO REMAIN
- REMOVE EXISTING BUILDING
- X — REMOVE EXISTING SITE FENCE
- PFAS EXCAVATION AREA
- FULL DEPTH SAWCUT
- W_x — REMOVE EXISTING WATERLINE
- E_x — REMOVE EXISTING UNDERGROUND ELECTRIC, RE: ED101 & ED102
- C_x — REMOVE EXISTING UNDERGROUND COMM LINE, RE: TD101 & TD102
- SS_x — EXISTING SANITARY TO REMAIN
- $FUEL_x$ — EXISTING UNDERGROUND MAIN FUEL PIPE TO REMAIN
- C_x — EXISTING UNDERGROUND COMM. TO REMAIN
- SURVEY CONTROL POINT
- REMOVE EXISTING TREE
- REMOVE EXISTING ABANDONED ELECTRICAL POLE
- REMOVE EXISTING ROADWAY SIGN
- REMOVE EXISTING CATCH BASIN



AREA 6 KEY PLAN

GRAPHIC SCALE
0 15' 30' 60'
SCALE: 1"=30'

NORTH ARROW
TRUE N

NAVFAC

STATE OF TEXAS
JENNIFER M. HAYNES
90167
LICENSED PROFESSIONAL ENGINEER
1/20/2026
TEXAS REGISTERED ENGINEERING FIRM F-2966 SEAL

Jacobs / BURNS MCDONNELL
JACOBS/B&M, A JOINT VENTURE
1100 NORTH GLEBE ROAD
SUITE 500
ARLINGTON, VA 22201
A/E Contract No./W2743-20-D-0002
A/E Task Order No./N627422FF0315
JCG NO./3430603
A/E INFO

APPROVED
FOR COMMANDER NAVFAC DATE 02/02/2026

ACTIVITY	AFIMSC APPROVAL PER NAVFAC SAT-TO CHECKLIST
SATISFACTORY TO DATE	31 DEC 2025
DES: JMH / DRW: SMC / REV: ATM	
PM/DM	KKK
BRANCH MANAGER	SMK
CHIEF ENG/ARCH	SMK
FIRE PROTECTION	RO

DEPARTMENT OF THE NAVY
NAVFAC PACIFIC
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ~ PACIFIC
ANDERSEN AIR FORCE BASE
JOINT REGION MARIANAS (JRM)
GUAM

FY24 AJJY183012 (P-012)
PDI: NORTH AIRCRAFT PARKING RAMP
DEMOLITION PLAN - AREA 6

SCALE:	AS SHOWN
EPROJECTS NO.:	1665555
CONSTR CONTROL NO.	
NAVFAC DRAWING NO.	17361687
SHEET	64 OF 377

CD107

REDESIGN FINAL SUBMITTAL

IF SHEET IS LESS THAN 22" X 34" REDUCED PRINT. USE GRAPHIC SCALES

FILE NAME: U:\BLDG\NAVFAC Pacific\D3430603 – P-012 North Aircraft Parking Ramp\700 Working Documents\740 Sheets\740.01 Civil\P012_1665555_CD107.dwg
LAYOUT NAME: DEMOLITION PLAN – AREA 6
PLOTTED: 01/12/2026 7:41pm
USER: Cameron5