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DRAWN BY:
NG

CHECKED BY:
HB

APPROVED BY:
HB

DATE:
1/13/2023

ENGINEER OF RECORDS

HARMON BENNETT, P.E.
FLORIDA LICENSE NO.:
53130



TIERRA SOUTH FLORIDA
2765 VISTA PARKWAY, STE-10
WEST PALM BEACH, FL 33411

SCALE:

NTS

PROJECT NUMBER:

7111-22-326

BORING LOCATION PLAN

PBIA CARGO ROAD

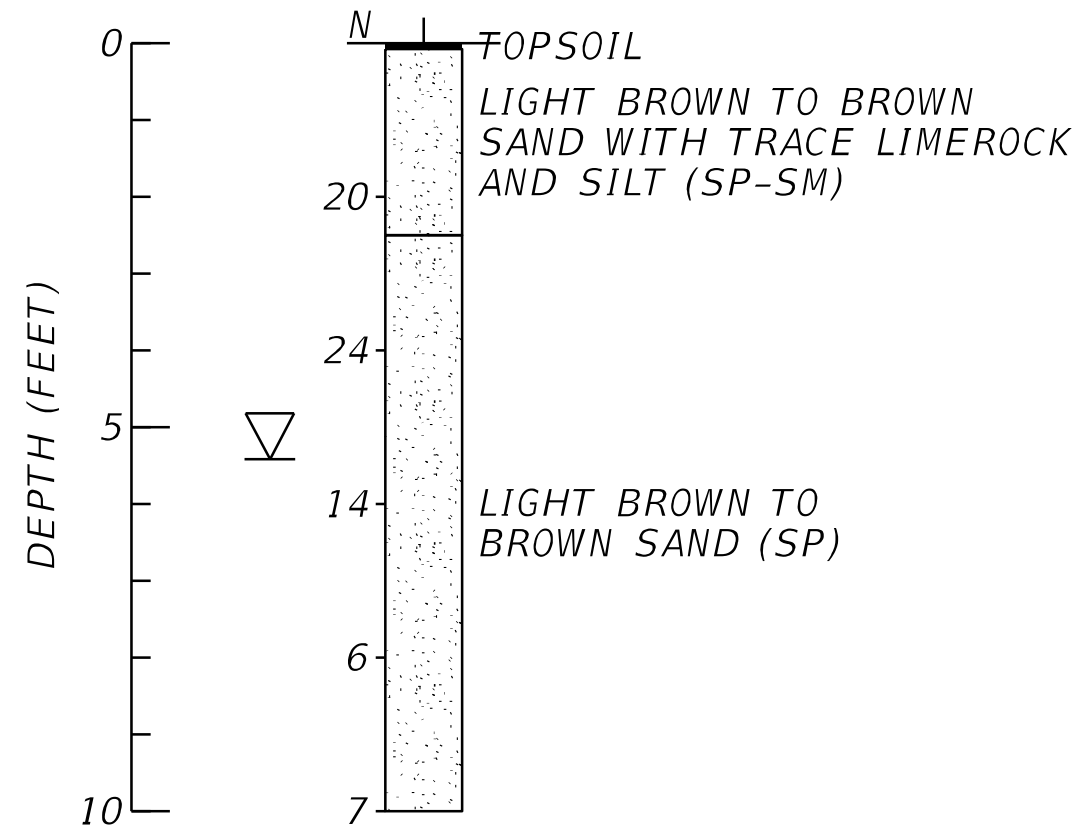
WEST PALM BEACH, FLORIDA

SHEET NO.

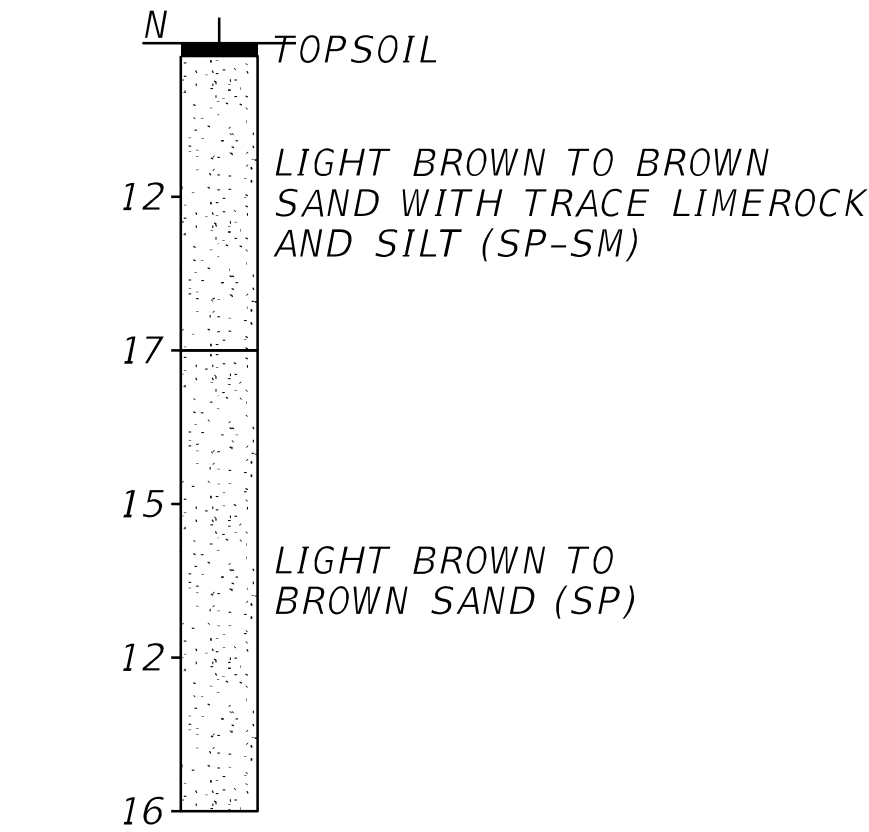
1

1/13/2023 11:49:36 AM joliva J:\Tierra Documents\Projects\TSF 2022\7111-22-326.Cargo Access Improvements Design Task 1-22-PBJ-H-007 (HDR)\Geotechnical\7111_22-326_sPlan_sProfiles.dgn

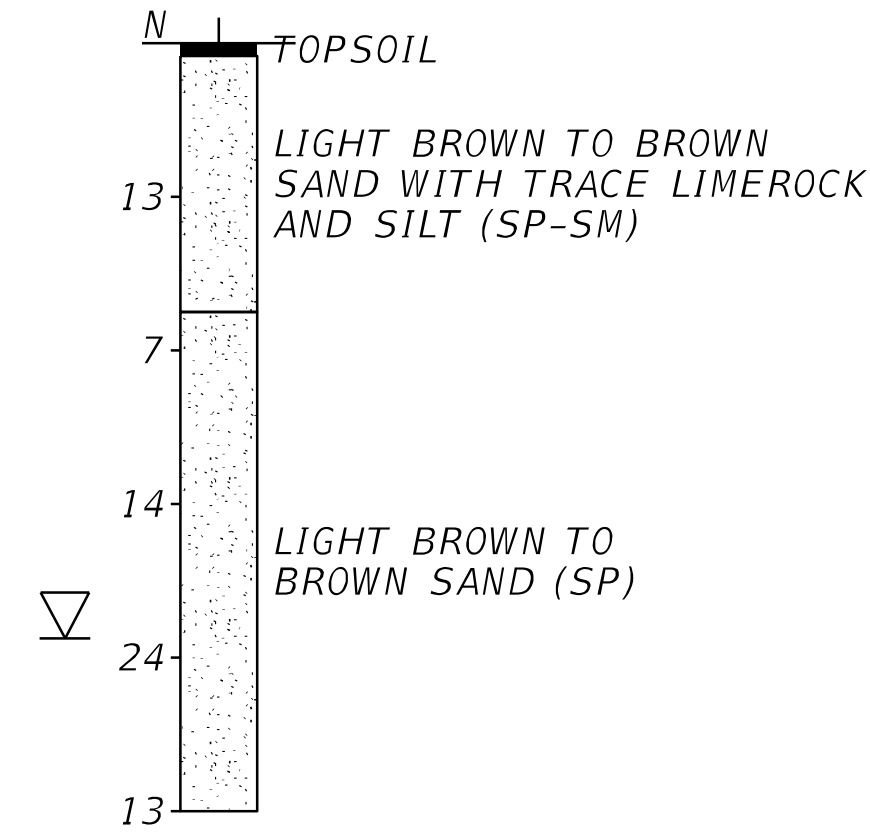
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Rig CME-45
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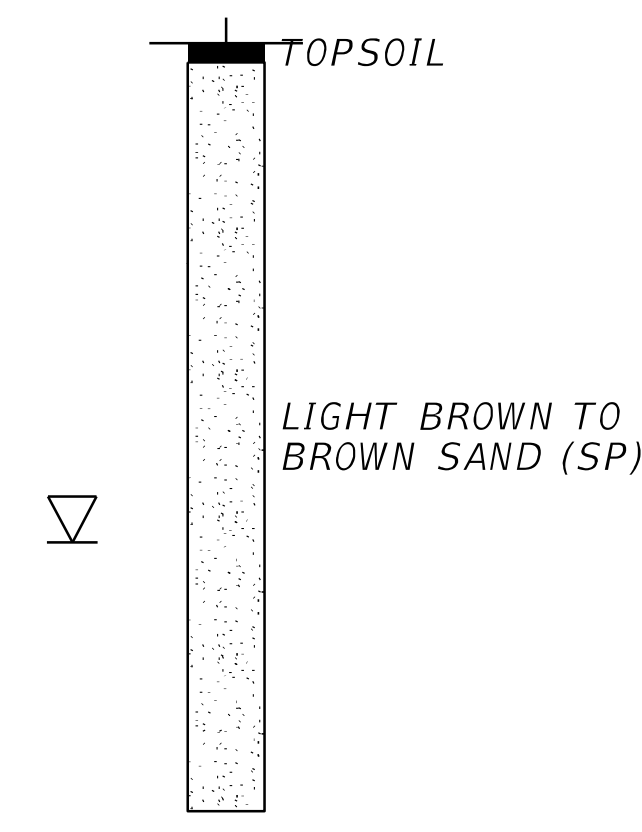
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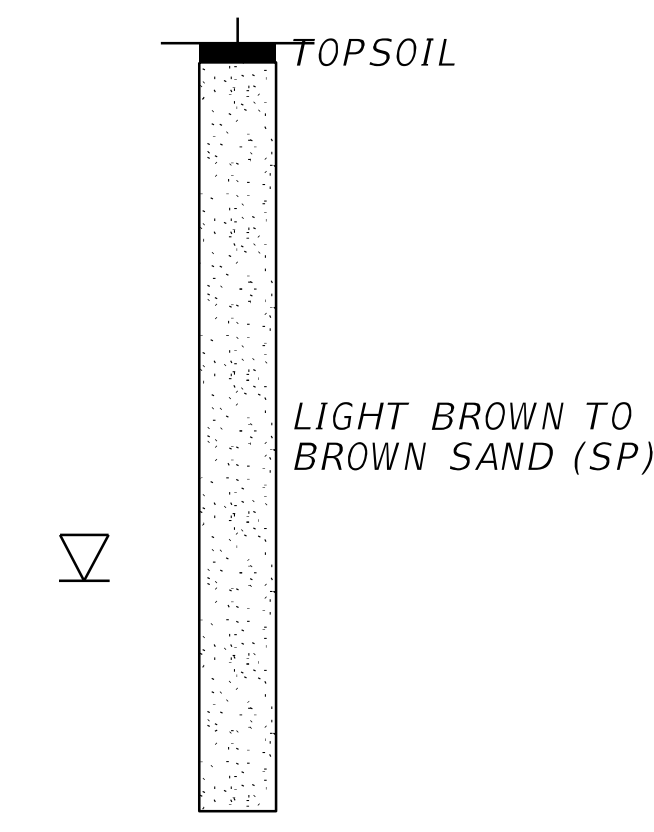
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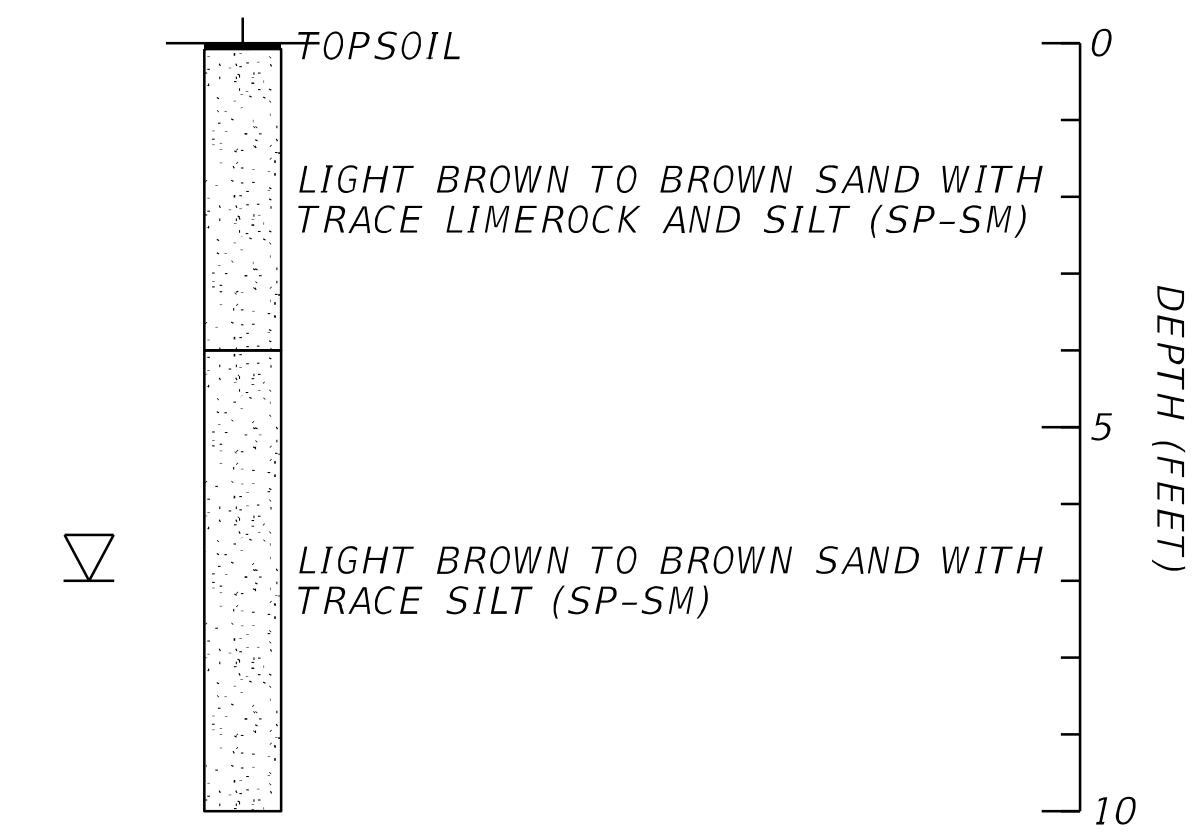
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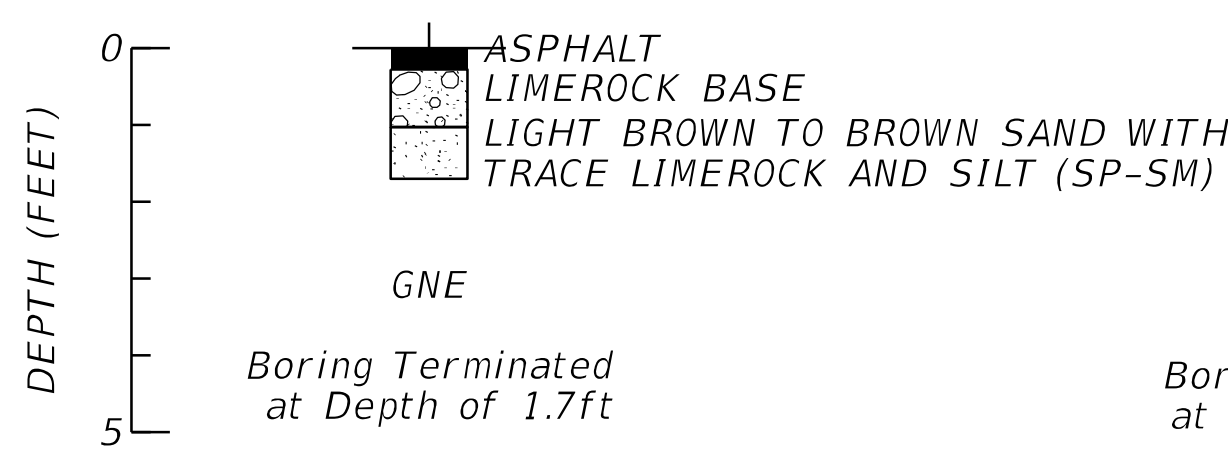
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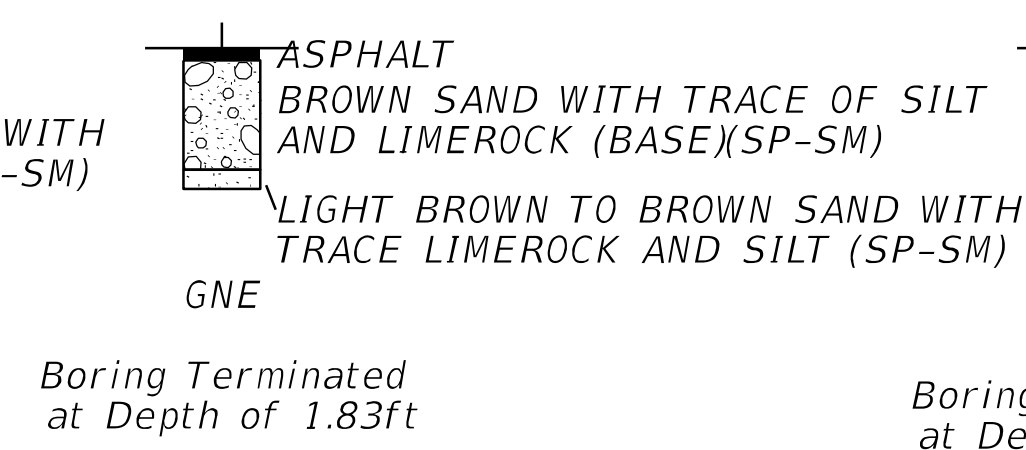
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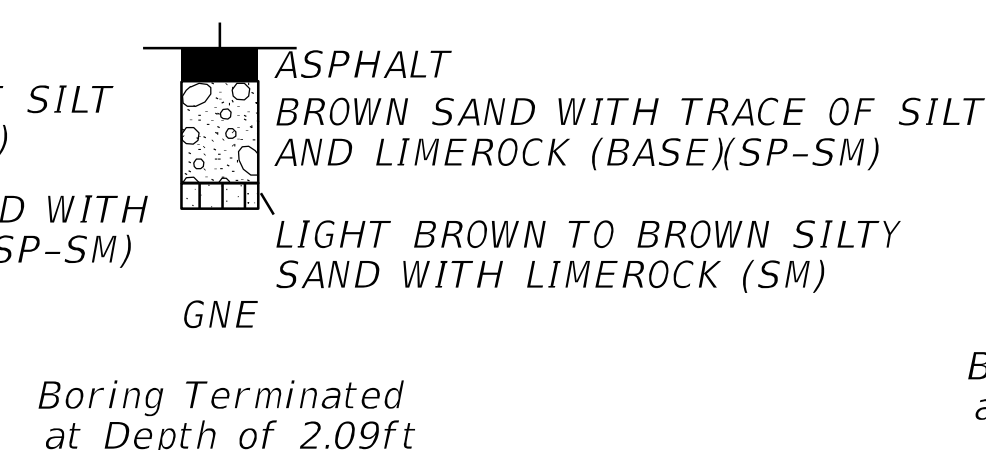
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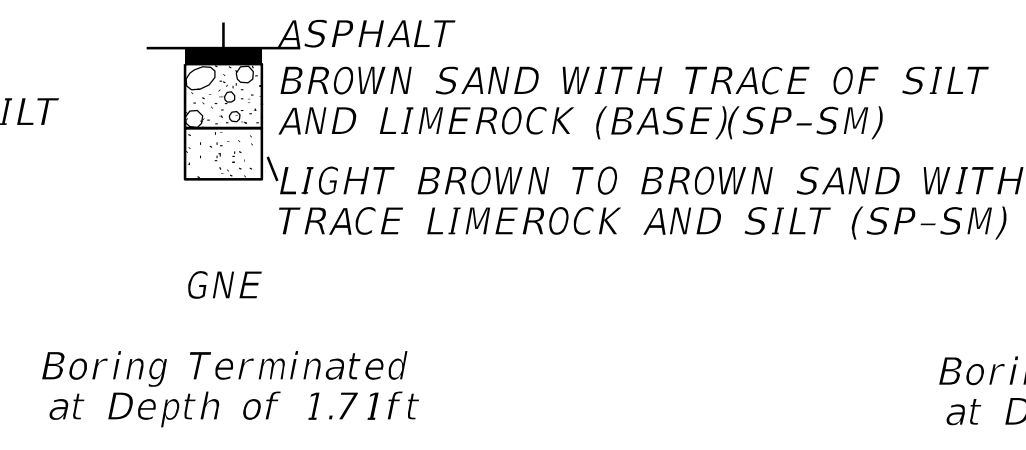
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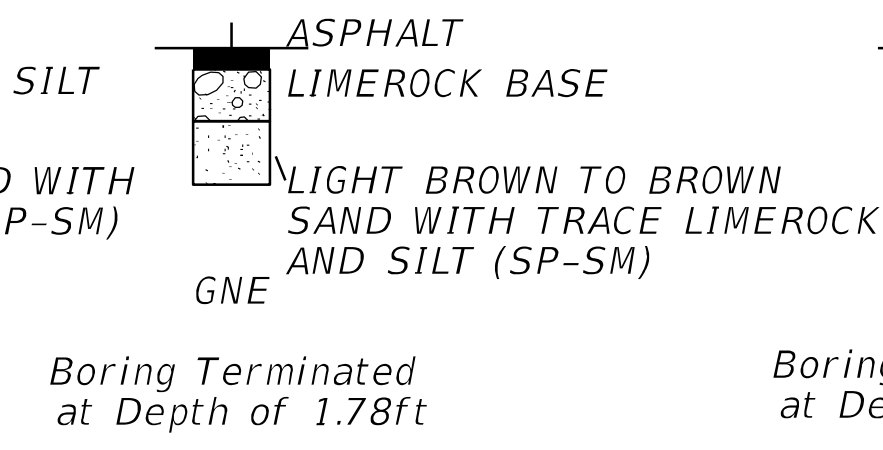
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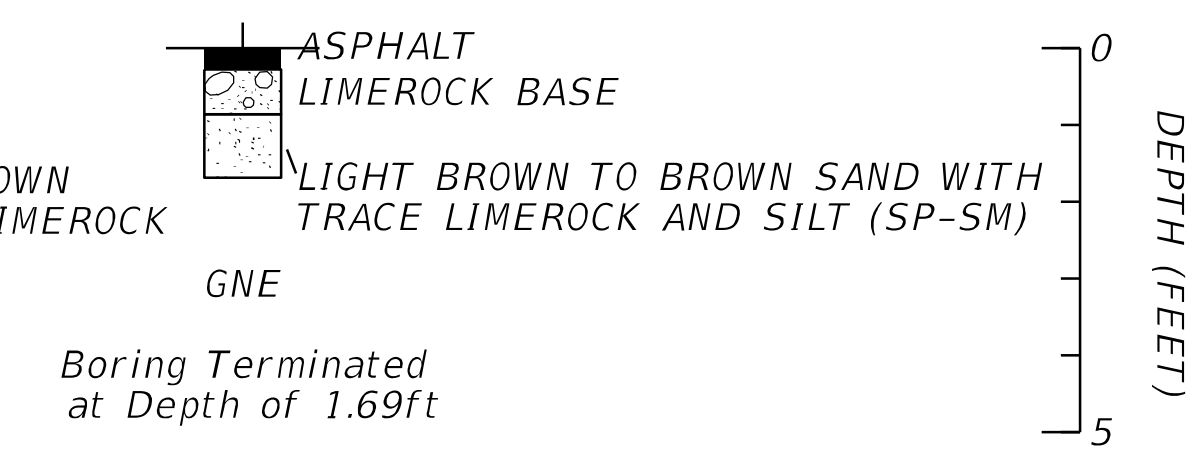
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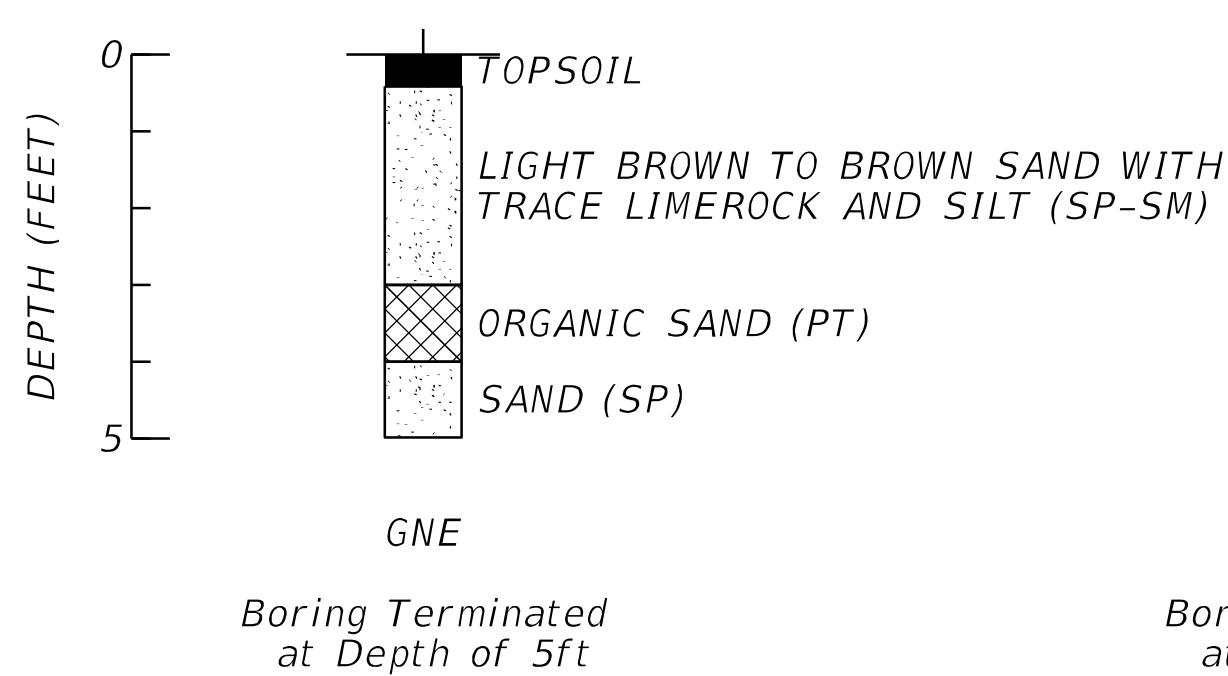
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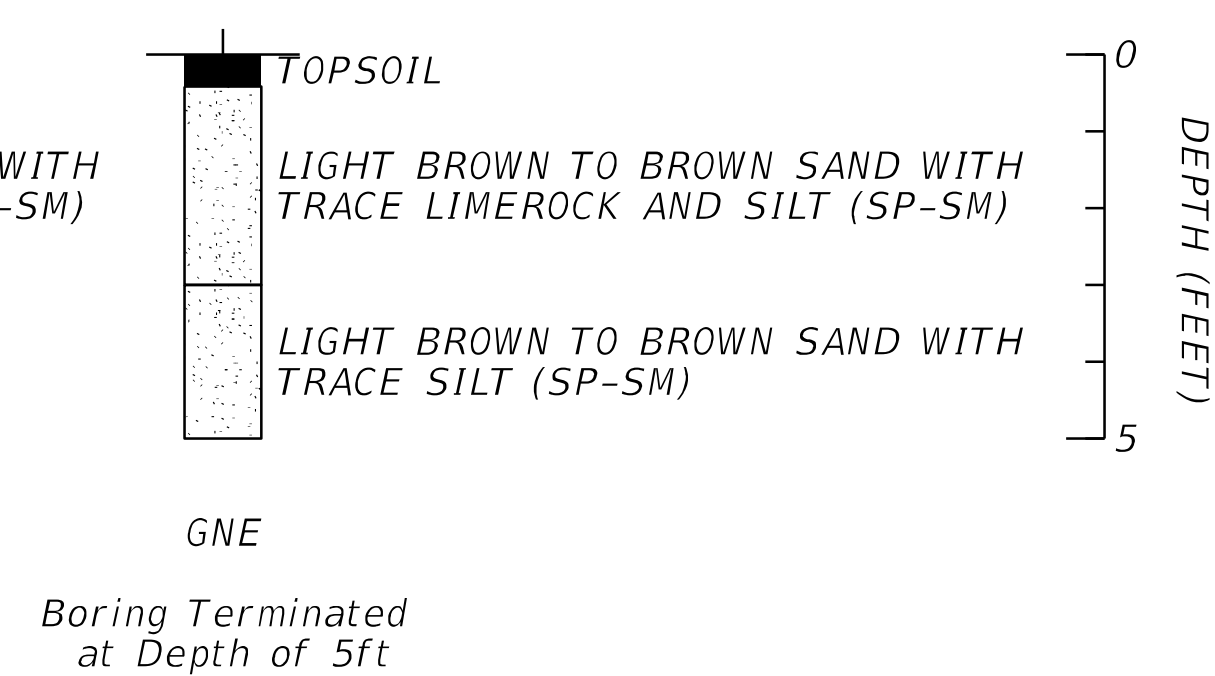
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Rig CME-45
Latitude 26.6829268
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Bore # CBR-1
Date 12/20/2022
Hammer auto
Latitude 26.682942
Longitude -80.073972



Bore # CBR-2
Date 12/20/2022
Hammer auto
Latitude 26.686665
Longitude -80.076146



LEGEND

▽ Encountered Groundwater Table
GNE Groundwater Not Encountered



NOTES

- BORING LOCATIONS WERE MARKED IN THE FIELD USING A HANDHELD GPSMap GARMIN 78s. ACTUAL LOCATIONS AND THEIR COORDINATES ARE APPROXIMATE. STATION AND OFFSETS WERE DETERMINED BASED ON THE ALIGNMENT FILE.
- DEPTH SHOWN ARE IN FEET FROM EXISTING GROUND SURFACE
- SPT N-VALUES SHOWN ABOVE WERE OBTAINED USING AUTOMATIC HAMMERS. GENERALLY DESIGN CORRELATIONS AND PROGRAMS USE SAFETY HAMMERS N-VALUES. HENCE, THE ABOVE N-VALUES NEED TO BE MULTIPLIED BY 1.24 TO OBTAIN EQUIVALENT SAFETY HAMMER N-VALUES FOR DESIGN PURPOSE.

DRAWN BY:
NG

APPROVED BY:
HB

ENGINEER OF RECORDS

HARMON BENNETT, P.E.
FLORIDA LICENSE NO.:
53130



TIERRA SOUTH FLORIDA
2765 VISTA PARKWAY, STE-10
WEST PALM BEACH, FL 33411

SCALE:
NTS

PROJECT NUMBER:
7111-22-326

SOIL PROFILES

PBIA CARGO ROAD

WEST PALM BEACH, FLORIDA

SHEET NO.

2

1/19/2023 1:21:12 PM joliva J:\Tierra Documents\Projects\TSF 2022\7111-22-326\Cargo Access Improvements Design Task I-22-PBI-H-007 (HDR)\Geotechnical\7111-22-326_sPlan_sProfiles.dgn

DATE OF SURVEY : OCTOBER AND DECEMBER 2022
SURVEY MADE BY : TIERRA SOUTH FLORIDA, INC.
SUBMITTED BY : TIERRA SOUTH FLORIDA, INC.

PROJECT NAME: Cargo Access Improvements Design Task
I-22-PBI-H-007
TSFGEO PROJECT ID: 7111-22-326

DISTRICT :
ROAD NO. :
COUNTY : PALM BEACH

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS
SURVEY BEGINS STA. : SURVEY ENDS STA. :

STRATUM NO.	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS % PASS						ATTERBERG LIMITS (%)				DESCRIPTION	CORROSION TEST RESULTS				
	NO. OF TESTS	% ORGANIC	NO. OF TESTS	% MOISTURE	NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTIC INDEX	AASHTO GROUP		NO. OF TESTS	RESISTIVITY ohms-cm	CHLORIDE ppm	SULFATES ppm	pH
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ASPHALT	-	-	-	-	-
2	-	-	1	6	1	47	33	29	21	15	-	-	-	A-1-b	LIMEROCK BASE	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	A-8	TOPSOIL	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	A-2-4	LIGHT BROWN TO BROWN SAND WITH TRACE LIMEROCK AND SILT (SP-SM)	-	-	-	-	-
5	-	-	1	3	1	100	93	76	45	5	-	-	-	A-3	LIGHT BROWN TO BROWN SAND (SP)	-	-	-	-	-
6	1	3	2	12-15	2	61-100	48-95	43-70	25-32	6-14	-	-	-	A-3 /A-1-b	BROWN SAND WITH TRACE SILT AND LIMEROCK (BASE)(SP-SM)	-	-	-	-	-
7	1	2	1	19	1	100	94	79	50	11	-	-	-	A-3 /A-2-4	LIGHT BROWN TO BROWN SAND WITH TRACE SILT (SP-SM)	-	-	-	-	-
8	1	27	1	56	1	100	91	76	49	27	FS	-	-	A-8	ORGANIC SAND (PT)	-	-	-	-	-

EMBANKMENT AND SUBGRADE MATERIAL

STRATA BOUNDARIES ARE APPROXIMATE. MAKE FINAL CHECK AFTER GRADING.

▽ - WATER TABLE ENCOUNTERED

▼ - ESTIMATED SEASONAL HIGH GROUNDWATER LEVEL

GNE - GROUNDWATER NOT ENCOUNTERED

NP- NON PLASTIC

- STRATA BOUNDARIES ARE APPROXIMATE AND REPRESENT SOIL STRATA AT EACH BORING LOCATION ONLY. ANY SUBSOIL CONNECTING LINES SHOWN ARE FOR ESTIMATING EARTHWORK ONLY AND DO NOT INDICATE ACTUAL STRATUM LIMITS. SUBSURFACE VARIATIONS BETWEEN BORING SHOULD BE ANTICIPATED AS INDICATED IN STANTRARD SPECIFICFICATIONS SECTION 2-4. FOR FURTHER DETAILS SEE SECTION 120-3.
- GROUNDWATER LEVEL SHOWN AS (▽) WHERE ENCOUNTERED, GROUNDWATER NOT ENCOUNTERED SHOWN AS "GNE". ESTIMATED SEASONAL HIGH GROUNDWATER LEVEL SHOWN AS (▼). IF ESTIMATED AT OR ABOVE THE BOTTOM OF BORING PROFILE ELEVATION.
- REMOVAL OF MUCK AND PLASTIC MATERIAL OCCURRING WITHIN THE ROADWAY SHALL BE ACCOMPLISHED IN ACCORDANCE WITH STANDARD PLANS INDEX 120-002, UNLESS OTHERWISE SHOWN ON THE PLANS. THE MATERIAL UTILIZED IN EMBANKMENT CONSTRUCTION SHALL BE IN ACCORDANCE WITH STANDARD PLANS INDEX 120-001.
- SOIL ANALYSIS INCLUDED DATA FROM ROADWAY AREAS AND RAMP AREAS, AS NOTED IN LIMITS ABOVE.
- THE SYMBOL "-" REPRESENTS AN UNMEASURED PARAMETER.
- STRATUM 1 CONSISTS OF ASPHALT, LISTED FOR PURPOSE OF SOIL PROFILES.
- STRATUM 2 CONSISTS OF LIMEROCK BASE (A-1-b). THESE MATERIALS APPEAR TO BE SUITABLE TO USE IN SUBGRADE AND EMBANKMENT AND SHOULD BE UTILIZED ACCORDING TO STANDARD PLANS INDEX 120-001.
- STRATUM 3 CONSISTS OF TOPSOIL (A-8) AND SHOULD BE STRIPPED FROM THE PROPOSED WIDENING AND NEW PAVEMENT AREAS IN ACCORDANCE WITH STANDARD SPECIFICATIONS SECTION 120-EXCAVATION AND EMBANKMENT.
- STRATUM 4 CONSITS OF LIGHT BROWN TO BROWN SAND WITH TRACE LIMEROCK AND SILT (A-2-4). THIS MATERIAL APPEARS TO BE SUITABLE TO USE IN SUBGRADE AND EMBANKMENT SUPPORT AND SHOULD BE UTILIZED ACCORDING TO STANDARD PLANS INDEX 120-001. HOWEVER, THIS MATERIAL IS LIKELY TO RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT. IT MAY BE USED IN THE EMBANKMENT ABOVE THE WATER LEVEL EXISTING AT THE TIME OF CONSTRUCTION AND SHOULD BE USED ACCORDING TO STANDARD PLANS INDEX 120-001. IT MAY BE USED IN THE SUBGRADE PORTION OF THE ROADBED WHEN APPROVED BY THE COUNTY MATERIALS ENGINEER. MATERIAL PLACED BELOW THE EXISTING WATER LEVEL MUST BE NON-PLASTIC AND CONTAIN LESS THAN 15% PASSING THE NO . 200 U.S. STANDARD SIEVE.
- STRATUM 5 CONSISTS OF LIGHT BROWN TO BROWN SAND (A-3). THESE MATERIALS APPEAR TO BE SUITABLE TO USE IN SUBGRADE AND EMBANKMENT AND SHOULD BE UTILIZED ACCORDING TO STANDARD PLANS INDEX 120-001.
- STRATUM 6 CONSISTS OF BROWN SAND WITH TRACE SILT AND LIMEROCK (BASE) (A-3/A-1-b). THESE MATERIALS APPEAR TO BE SUITABLE TO USE IN SUBGRADE AND EMBANKMENT AND SHOULD BE UTILIZED ACCORDING TO STANDARD PLANS INDEX 120-001.
- STRATUM 7 CONSITS OF LIGHT BROWN TO BROWN SAND WITH TRACE SILT (A-3/A-2-4). THIS MATERIAL APPEARS TO BE SUITABLE TO USE IN SUBGRADE AND EMBANKMENT SUPPORT AND SHOULD BE UTILIZED ACCORDING TO STANDARD PLANS INDEX 120-001. HOWEVER, THIS MATERIAL IS LIKELY TO RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT. IT MAY BE USED IN THE EMBANKMENT ABOVE THE WATER LEVEL EXISTING AT THE TIME OF CONSTRUCTION AND SHOULD BE USED ACCORDING TO STANDARD PLANS INDEX 120-001. IT MAY BE USED IN THE SUBGRADE PORTION OF THE ROADBED WHEN APPROVED BY THE AIRPORT MATERIALS ENGINEER. MATERIAL PLACED BELOW THE EXISTING WATER LEVEL MUST BE NON-PLASTIC AND CONTAIN LESS THAN 15% PASSING THE NO . 200 U.S. STANDARD SIEVE.
- STRATUM 8 CONSISTS OF ORGANIC SAND (A-8) AND SHOULD BE STRIPPED FROM THE PROPOSED WIDENING AND NEW PAVEMENT AREAS IN ACCORDANCE WITH STANDARD SPECIFICATIONS SECTION 120-EXCAVATION AND EMBANKMENT. THIS STRATUM SHOULD BE REMOVED FROM THE DEPTH OF APPROXIMATLEY 3 TO 4 FEET BELOW GRADE AT THE NORTH SIDE OF THE CROSSING FROM PERIMETER ROAD TO AUSTRALIAN AVE.

DRAWN BY:
NG

APPROVED BY:
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ENGINEER OF RECORDS

HARMON BENNETT, P.E.
FLORIDA LICENSE NO.:
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TIERRA SOUTH FLORIDA
2765 VISTA PARKWAY, STE-10
WEST PALM BEACH, FL 33411

SCALE:

NTS

PROJECT NUMBER:

7111-22-326

SOIL SURVEY SHEET

PBIA CARGO ROAD

WEST PALM BEACH, FLORIDA

SHEET NO.

3

G

F

E

D

C


B

A

Summary of Quantities										
PAY ITEM NO.	DESCRIPTION	UNIT	Perimeter RD S-01.01		Ramp A S-01.01		James L. Turnage BLVD S-01.01		GRAND TOTAL	
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
700-1-111	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	7				8		15	
700-1-112	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS	3						3	
700-1-500	SINGLE POST SIGN, RELOCATE	AS					1		1	
700-1-600	SINGLE POST SIGN, REMOVE	AS	7		1		9		17	
700-2-111	MULTI- POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	1						1	
700-2-112	MULTI- POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS	2						2	
700-2-600	MULTI- POST SIGN, REMOVE	AS	3						3	
700-3-206	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, 101-200 SF	EA					1		1	
700-4-113	OVERHEAD STATIC SIGN STRUCTURE, FURNISH & INSTALL, CANTILEVER, 31-40 FT	EA					1		1	
700-4-611	OVERHEAD STATIC SIGN STRUCTURE, SHALLOW FOUNDATION REMOVAL, CANTILEVER	EA					1		1	
700-4-621	OVERHEAD STATIC SIGN STRUCTURE, SHALLOW FOUNDATION REMOVAL, SPAN	EA					1		1	
704-1-4	TUBULAR MARKER, 36" YELLOW POST	EA	30						30	
710-11-101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM	0.228		0.114		0.123		0.465	
710-11-102	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 8"	GM	0.016						0.016	
710-11-103	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 12"	GM			0.026		0.070		0.096	
710-11-124	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF	44.47		396.10				440.57	
710-11-125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	LF	25						25	
710-11-131	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 10-30 OR 3-9 SKIP, 6" WIDE	GM					0.123		0.123	
710-11-170	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA	2		1				3	
710-11-201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM	0.253		0.051				0.304	
710-11-202	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR INTERCHANGE AND URBAN ISLAND, 8"	GM	0.014						0.014	
710-11-224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF	206						206	
706-1-3	RETRO-REFLECTIVE PAVEMENT MARKER	EA	60				80		140	
711-11-103	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR INTERCHANGE MARKINGS	GM			0.026		0.070		0.096	
711-11-124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	LF	44.47		396.10				440.57	
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	25						25	
711-11-170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	2		1				3	
711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF	206.18		396.14				602.32	
711-14-660	THERMOPLASTIC, PREFORMED, MULTI COLOR ROUTE SHIELD	EA					1		1	
711-15-101	THERMOPLASTIC, STANDARD-OPEN GRADED ASPHALT SURFACES, WHITE, SOLID, 6"	GM	0.228		0.114		0.123		0.465	
711-15-102	THERMOPLASTIC, STANDARD-OPEN GRADED ASPHALT SURFACES, WHITE, SOLID, 8"	GM	0.016						0.016	
711-15-131	THERMOPLASTIC, STANDARD-OPEN GRADED ASPHALT SURFACES, WHITE, SKIP, 6",10-30 SKIP OR 3-9 LANE DROP	GM					0.123		0.123	
711-15-201	THERMOPLASTIC, STANDARD-OPEN GRADED ASPHALT SURFACES, YELLOW, SOLID, 6"	GM	0.253		0.051				0.304	
711-15-202	THERMOPLASTIC, STANDARD-OPEN GRADED ASPHALT SURFACES YELLOW, SOLID, 8"	GM	0.014						0.014	

[illegible]

EMILIO CORRALES
FL PE NO.: 70657

	3230 W. COMMERCIAL BLVD. SUITE 400 FORT LAUDERDALE, FL 33309	
	3230 W. COMMERCIAL BLVD. SUITE 400 FORT LAUDERDALE, FL 33309	1/23 BBL #1 007 1/23 BBL #1 007
DRAWN BY: G. COLOME	CHECKED BY: H. GUTIERREZ	SUBMITTED BY: E. CORRALES
DESIGNED BY: J. RODRIGUEZ	ISSUE DATE: FEBRUARY 2026	CONTRACT NO.: 1/23 BBL #1 007

AIR CARGO ACCESS IMPROVEMENTS

PALM BEACH INTERNATIONAL AIRPORT

PALM BEACH COUNTY, FLORIDA

SUMMARY OF QUANTITIES

SHEET ID

S-00.01

GENERAL NOTES

1. SIGNING AND PAVEMENT MARKINGS:

1.1. ALL SIGNING AND PAVEMENT MARKINGS INSTALLED AS PART OF THESE PLANS SHALL CONFORM TO THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), THE PALM BEACH COUNTY TYPICALS FOR PAVEMENT MARKINGS & GEOMETRICS (FEBRUARY 2021) NO. T-P-21, AND THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

1.2. MATCH EXISTING PAVEMENT MARKINGS AT THE LIMITS OF CONSTRUCTION.

1.3. REMOVAL OF THE EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY WATER BLASTING OR OTHER APPROVED METHODS DETERMINED BY THE ENGINEER.

1.4. CAUTION SHOULD BE EXERCISED WHILE RELOCATING EXISTING SIGNS TO PREVENT UNNECESSARY DAMAGE TO SIGNS. IF THE SIGN IS DAMAGED BEYOND USE, AS DETERMINED BY THE ENGINEER, SIGNS SHALL BE REPLACED BY THE CONTRACTOR AT THEIR EXPENSE.

1.5. ALL EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION OPERATIONS SHALL BE REMOVED, STOCKPILED, AND RELOCATED BY THE CONTRACTOR. SIGN REMOVAL SHALL BE DIRECTED BY THE ENGINEER.

1.6. RELOCATED SIGN SUPPORT SYSTEM MUST MEET THE CURRENT DESIGN STANDARD.

1.7. THE CONTRACTOR SHALL PROVIDE AN INVENTORY OF EXISTING SIGNS TO REMAIN OR TO BE RELOCATED PRIOR TO STARTING THE JOB AND FORWARD THIS LIST TO THE ENGINEER. CONTRACTOR SHALL NOTIFY IF THERE ARE ANY MISSING OR DAMAGE SIGNS THAT THE PLANS SHOW TO REMAIN OR TO BE RELOCATED.

1.8. HAND DIG THE FIRST FOUR FEET OF SIGN FOUNDATION.

1.9. PATCH ATTACHMENT HARDWARE, SUCH AS COUNTERSUNK SCREWS OR RIVET HEADS, WITH RETRO REFLECTIVE BUTTONS THAT MATCH THE COLOR AND SHEETING MATERIAL OF THE FINISHED SIGN PANEL INCLUDING THE BACKGROUND, LEGEND OR BORDER.

1.10.ENSURE THE OUTSIDE CORNER OF SIGN IS CONCENTRIC WITH BORDER. ENSURE WHITE BORDERS ARE MOUNTED PARALLEL TO THE EDGE OF THE SIGN. ENSURE BLACK BORDERS ARE RECESSED FROM THE EDGE OF THE SIGN.

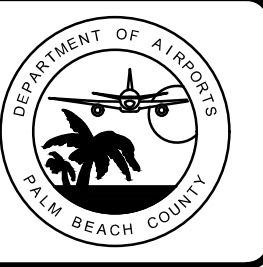
1.11.LAYOUT PERMANENT FINAL STRIPING THAT LEAVES NO VISIBLE MARKS AT TIME OF FINAL ACCEPTANCE.

1.12.VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF SIGNPOSTS.

1.13.SIGNS TO FOLLOW FDOT INDEX 17302 - CASE V (LOCATION IN BUSINESS OR RESIDENTIAL AREAS) AND INDEX 11860 - MIN. INSTALLATION REQUIREMENT.

1.14. STOP BARS SHALL BE A MINIMUM OF 4 FEET BEHIND CROSSWALKS.

1.15. RETROREFLECTIVE PAVEMENT MARKERS SHOULD BE INSTALLED IN ACCORDANCE TO PALM BEACH COUNTY TRAFFIC DIVISION PLACEMENT DETAILS PRESENTED IN THE PALM BEACH COUNTY TYPICALS FOR PAVEMENT MARKINGS, SIGNING & GEOMETRICS (FEBRUARY 2021) NO. T-P-21

[illegible]

FL PE NO.: 70657
DATE: FEBRUARY 2026

6 COLONY

SUBMITTED BY:

CONTRACT NO.:
I-22-PBI-H-007

I RODRIGUEZ

CHECKED BY: _____

ISSUE DATE.
FEBRUARY 2026

1000 PBI, SUITE 846
PALM BEACH, FL 33406-1412
PHONE: 561-471-7420



AIR CARGO ACCESS IMPROVEMENTS
PALM BEACH INTERNATIONAL AIRPORT
PALM BEACH COUNTY, FLORIDA

GENERAL NOTES

SHEET ID

S-00.02

A

B

C

D

E

F

G

SIGN NAME		GS-1	QTY: 1		SIGN NUMBER		STATION(S)	
PANEL		BORDER		6+12.1				
WIDTH		13'-0"	WIDTH		2"			
HEIGHT		8'-6"	RADIUS		12"			
LEGEND		Black	COLOR		White			
COLOR		Green						
SYMBOL(S)		ANGLE	X	Y	WD	HT		
M1_1		0	60	46.5	36	36		
ARDOWN		0	57.8	5.2	30	20.6		

SYMBOL(S)	ANGLE	X	Y	WID	HT
M1_1	0	60	46.5	36	36
ARDOWN	0	57.8	5.2	30	20.6

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE	AVERAGE LENGTH
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COPY	E	X	I	T	L
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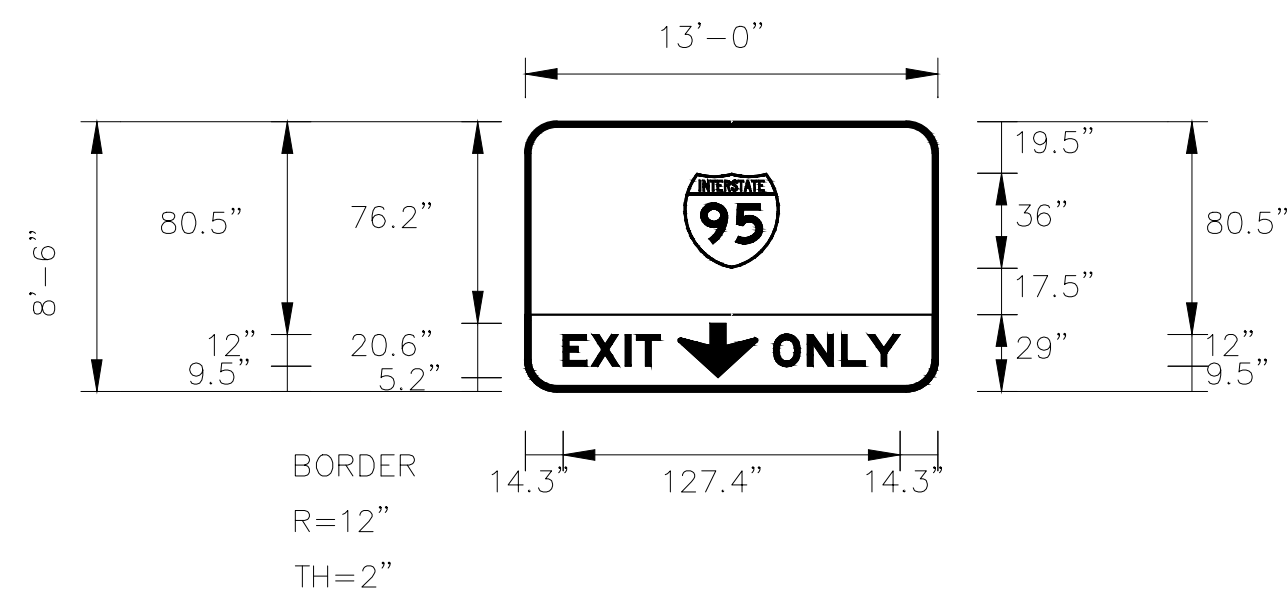
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LICENSED PROFESSIONAL

EMILIO CORRALES
FL PE NO.: 70657
DATE: FEBRUARY 2026

DESIGNED BY: J. J. RODRIGUEZ	CHECKED BY: H. GUTIERREZ	DRAWN BY: G. COLOME
ISSUE DATE: FEBRUARY 2026	SUBMITTED BY: E. CORRALES	
		CONTRACT NO.: I-22-PBH-H-007

PALM BEACH COUNTY DEPT OF AIRPORTS
1000 PBIA, SUITE 846
WEST PALM BEACH, FL 33406-1412
PHONE: 561-471-7420

FOR
3230 W. COMMERCIAL BLVD,
SUITE 400
FORT LAUDERDALE, FL 33309

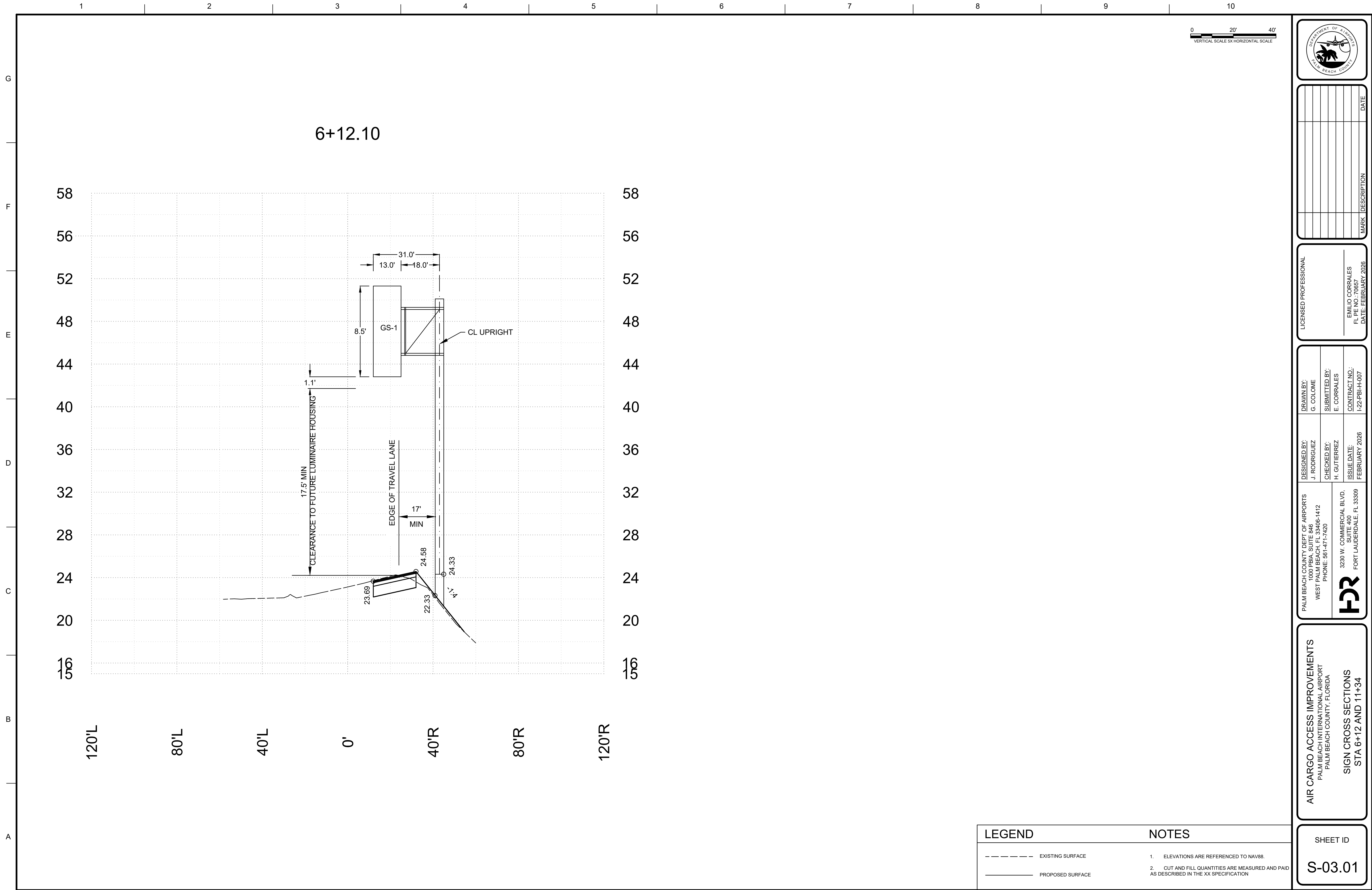


AIR CARGO ACCESS IMPROVEMENTS
PALM BEACH INTERNATIONAL AIRPORT
PALM BEACH COUNTY, FLORIDA

GUIDE SIGN WORKSHEET

SHEET ID

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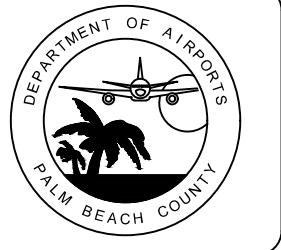


ELECTRICAL GENERAL NOTES:

1. THE SCOPE OF WORK SHALL CONSIST PRIMARILY OF THE FOLLOWING:
- 1.1. CONTRACTOR SHALL MODIFY THE EXISTING ROADWAY LIGHTING SYSTEM , AS SHOWN ON PLANS, FOR A COMPLETE WORKING SYSTEM IN PLACE.
2. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR TO INSTALL THE ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS. ITEMS NOT SHOWN BUT OBVIOUSLY NECESSARY FOR COMPLETION OF THE WORK SHALL BE INCLUDED.
3. THE INSTALLATION SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, FLORIDA BUILDING CODE AND ALL PALM BEACH COUNTY CODES.
4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, INSPECTIONS AND APPROVALS AND TO INCLUDE ALL FEES AS PART OF THEIR BID IF NOT OTHERWISE NOTED.
5. THE CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE ENGINEER AND OWNER.
6. THE CONTRACTOR SHALL, BEFORE SUBMITTING THEIR BID, VISIT THE SITE OF THE PROJECT AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS. NO ALLOWANCE WILL BE MADE FOR EXISTING CONDITIONS OR FAILURE OF THE CONTRACTOR TO OBSERVE THEM.
7. CONTRACTOR SHALL NOTIFY OWNER 48 HOURS IN ADVANCE OF ANY WORK THAT REQUIRES A POWER SHUTDOWN, IN ORDER TO GET THE AUTHORIZATION TO COMMENCE THE WORK. CONTRACTOR SHALL PROVIDE A WORKING SCHEDULE IN WRITING TO OWNER SHOWING THE PROPOSED SCHEDULE OF WORK WITH THE ANTICIPATED TIME DURATIONS.
8. ALL EQUIPMENT AND MATERIAL SHALL BE UNUSED AND U.L. LISTED. ALL REFERENCES TO A PARTICULAR MANUFACTURER ARE GIVEN ON AN "APPROVED ALTERNATE" BASIS.
9. THE CONTRACTOR IS RESPONSIBLE TO TEST ALL SYSTEMS INSTALLED OR MODIFIED UNDER THIS PROJECT AND REPAIR OR REPLACE ALL DEFECTIVE WORK TO THE SATISFACTION OF THE ENGINEER AND OWNER.
10. ALL EQUIPMENT FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED SHALL BE GUARANTEED AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION.
11. ALL CONDUCTORS SHALL BE COPPER, XHHW. NO ALUMINUM ALLOWED UNLESS SPECIFICALLY INDICATED ON DRAWINGS.
12. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL ELECTRICAL & SPECIAL SYSTEMS EQUIPMENT AND MATERIAL.
13. ALL CONTROL PANELS SHALL BE CONSTRUCTED UNDER UL 508A STANDARD, BY THE APPROVED PANEL VENDOR AND THE VENDOR SHALL BEAR A UL 508A LABEL ON THE PANEL
14. THE DRAWINGS ARE NOT INTENDED TO SHOW THE EXACT LOCATION OF CONDUIT RUNS. THESE ARE TO BE COORDINATED WITH THE OTHER TRADES SO THAT CONFLICTS ARE AVOIDED PRIOR TO INSTALLATIONS.
15. ALL LOCATIONS OF EQUIPMENT, PANELS ETC. ARE SHOWN FOR ILLUSTRATION PURPOSES. CONTRACTOR SHALL VERIFY AND COORDINATE EXACT LOCATION AND SIZE WITH ALL SUBCONTRACTORS AND EQUIPMENT SUPPLIERS PRIOR TO ANY INSTALLATION AND THEN INSTALL AS SUCH WITH CORRESPONDING CONDUIT STUB-UPS.
16. SEE OTHER DISCIPLINE DRAWINGS FOR COORDINATION OF ALL DRAWINGS. ANY CONFLICTS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION AND MOVEMENT OF CONDUITS OR OTHER ELECTRICAL EQUIPMENT SHALL BE ACCOMPLISHED WITHOUT ANY ADDITIONAL COST FOR THE OWNER.
17. LOCATIONS OF MANHOLES, HANDHOLES AND PULL BOXES ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH EXISTING AND NEW PIPING OR CONDUIT AND ADJUST ACCORDINGLY.
18. NOT ALL CONDUITS SHOWN ON RISER AND ONE-LINE DIAGRAMS ARE SHOWN ON BUILDING LAYOUTS. CONTRACTOR SHALL SUPPLY ALL CONDUITS AND CABLES AS SHOWN ON RISER AND ONE-LINE DIAGRAMS.
19. ALL CIRCUITS SHALL BE IDENTIFIED IN JUNCTION BOXES, PULL BOXES, CONTROL PANELS, MINI-POWER ZONES, SWITCHBOARDS, PANELBOARDS, CONTROLLERS AND SERVICE POINTS. IDENTIFICATION SHALL MATCH PANELBOARD SCHEDULES.
20. EXPOSED RUNS OF CONDUITS SHALL BE INSTALLED WITH RUNS PARALLEL OR PERPENDICULAR TO WALLS, STRUCTURAL MEMBERS OR INTERSECTIONS OF VERTICAL PLANES AND CEILINGS, WITH RIGHT ANGLE TURNS CONSISTING OF SYMMETRICAL BENDS OR PULL BOXES AS INDICATED ON THE DRAWINGS. BENDS AND OFFSETS SHALL BE AVOIDED WHERE POSSIBLE.
21. CONDUCTOR PULLING TENSIONS SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATION. CONTRACTOR SHALL INSTALL PULL BOXES TO MEET MANUFACTURER'S REQUIREMENTS.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONDUIT AND WIRING INSTALLATION FOR ALL VENDOR PROVIDED EQUIPMENT (PACKAGE SYSTEMS). IF THE SHOP DRAWINGS DIFFER FROM THE DESIGNED FACILITIES, THE CONTRACTOR SHALL REDESIGN THE FACILITIES AND SUBMIT THE REVISED DESIGN FOR THE ENGINEER'S APPROVAL ALONG WITH THE SHOP DRAWINGS. THERE SHALL BE NO ADDITIONAL COST TO THE OWNER FOR THE REDESIGN NOR FOR ANY ADDITIONAL CONDUITS AND WIRING. DURING SUBMITTAL THE CONTRACTOR SHALL VERIFY ALL SUPPLIED BREAKER SIZES FOR ALL PACKAGED SYSTEMS AND MODIFY ALL BREAKERS IN PANELBOARDS ACCORDINGLY WITHOUT ANY ADDITIONAL COST TO THE OWNER.
23. GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH NEC, ARTICLE 250. THE GROUNDING SYSTEM TEST SHALL NOT EXCEED A 48 HOUR SPAN DRY RESISTANCE OF 10 OHMS. ADDITIONAL GROUNDING TO MEET THIS REQUIREMENT SHALL BE INSTALLED AT NO EXTRA COST. GROUNDING AND BONDING CONNECTIONS SHALL NOT BE PAINTED. ALL GROUNDING CONNECTIONS SHALL BE EXOTHERMIC UNLESS SPECIFICALLY INDICATED OTHERWISE.
24. AN EQUIPMENT GROUND WIRE SIZED PER NEC SHALL BE PULLED IN ALL ELECTRICAL CONDUITS, POWER AND CONTROL, WHETHER OR NOT INDICATED ON THE PLANS.
25. ALL ENCLOSURES, TJB, WIREWAY, PULL BOXES ETC. SHALL CONTAIN A GROUNDING BUS. CONNECT ALL RACEWAY BONDS TO THIS BUS VIA GROUNDING BUSHING AND EXTEND BONDING JUMPER FROM THIS BUS TO THE ENCLOSURE.
26. ALL CONDUITS PENETRATING RATED FIRE WALLS OR RATED FIRE FLOORS SHALL BE INSTALLED WITH U.L. APPROVED DEVICES TO MAINTAIN THE FIRE RATING OF THE WALL OR FLOOR PENETRATED.
27. PROVIDE CONDUIT DUCT SEAL AT ALL CONDUIT ENDS.
28. ALL SPARE CONDUITS SHALL BE SEALED WITH A CAP AT BOTH ENDS AND A PULL STRING INSTALLED WITH IDENTIFICATION ON BOTH ENDS.


30. FLEXIBLE CONDUITS SHALL BE USED TO TERMINATE ALL MOTORS AND OTHER VIBRATING EQUIPMENT AND SHALL BE TERMINATED 18" AND 3" IN LENGTH.
31. TYPEWRITTEN PANEL SCHEDULES SHALL BE INSTALLED IN EACH PANELBOARD, AND TYPEWRITTEN TERMINAL BLOCK SCHEDULES IN EACH CONTROL CABINET.
32. AS PART OF THE ELECTRICAL SUBMITTAL, CONTRACTOR SHALL PROVIDE A LAYOUT OF THE ELECTRICAL ROOM SHOWING SIZES OF ALL EQUIPMENT AND THEIR SPATIAL RELATIONSHIPS.
33. CONTRACTOR SHALL BALANCE PANELBOARD LOADS AT THE END OF THE PROJECT.
34. ALL EXPOSED CONDUITS IN NON-AIR-CONDITIONED AREAS SHALL BE RIGID GALVANIZED STEEL (RGS). ALL CONDUITS IN AIR-CONDITIONED AREAS SHALL BE EMT, UNLESS OTHERWISE SPECIFIED. ALL UNDER GROUND CONDUITS SHALL BE SCHEDULE 40 PVC. ALL FIRE ALARM CONDUITS AND FIRE ALARM JUNCTION BOX COVERS SHALL BE RED. ALL JUNCTION BOX COVERS SHALL BE COLORED AS SHOWN BELOW IN ADDITION TO HAVING A WHITE LABEL WITH BLACK LETTERING ON COVER PLATE WITH THE SYSTEM TYPE:
 - 33.1. WIFI = YELLOW
 - 33.2. GIDS = GREEN
 - 33.3. CCTV = BLUE
 - 33.4. ELECTRICAL = BROWN
 - 33.5. EMERGENCY = ORANGE
 - 33.6. CONTROL = PURPLE
 - 33.7. PA = WHITE
 - 33.8. FIRE ALARM = RED
 - 33.9. COMMUNICATIONS = GREEN
 - 33.10. UPS = BLACK
35. COMBINING OF NEUTRAL CONDUCTORS SHALL NOT BE ALLOWED.
36. THE CONTRACTOR MAY COMBINE CONDUCTORS TO LIMIT THE NUMBER OF CONDUITS LEAVING THE PANELBOARD. CONTRACTOR SHALL DERATE THE WIRES AS PER NEC AND INCREASE THE SIZE OF THE WIRES ACCORDINGLY.
37. CABLE COLOR CODE SHALL BE AS FOLLOWS:
 - 36.1. 120/240V: PHASE A=BLACK, PHASE B=RED, GROUND=WHITE, GROUND=GREEN
 - 36.2. 120/208V: PHASE A=BLACK, PHASE B=RED, PHASE C=BLUE, GROUND=WHITE, GROUND=GREEN
 - 36.3. 277/480V: PHASE A=BROWN, PHASE B=PURPLE, PHASE C=YELLOW, GROUND=GRAY, GROUND=GREEN
38. CONTRACTOR SHALL PROVIDE TO THE OWNER WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE RECORD DRAWINGS DEPICTING THE COMPLETED INSTALLATION AS INSTALLED INCLUDING A SINGLE LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION AND FLOOR PLANS INDICATING THE LOCATION AND AREA SERVED BY ALL INSTALLED DISTRIBUTIONS PER THE FLORIDA BUILDING CODE-ENERGY CONSERVATION C405.5.4.1.
39. CONTRACTOR SHALL PROVIDE TO THE OWNER OPERATING AND MAINTENANCE MANUALS (O&M MANUALS) FOR ALL EQUIPMENT PER THE FLORIDA BUILDING CODE-ENERGY CONSERVATION C405.6.5.2. THE MANUALS SHALL INCLUDE:
 - 38.1. SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
 - 38.2. O&M MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
 - 38.3. NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
40. BRANCH AND FEEDER CONDUCTORS ARE SIZED FOR MAXIMUM VOLTAGE DROP OF 5 PERCENT COMBINED AT DESIGN LOAD PER THE FLORIDA BUILDING CODE-ENERGY CONSERVATION-C405.5.3.
41. ALL REFERENCES TO SS OR STAINLESS STEEL SHALL MEAN 316 STAINLESS STEEL.
42. ALL ELECTRICAL EQUIPMENT SHALL BE PERMANENTLY IDENTIFIED AND SIGNED PER THE REQUIREMENTS OF THE NEC AND THE FLORIDA BUILDING CODE.
43. MINIMUM DISTANCE ALLOWED BETWEEN POWER CONDUITS AND INSTRUMENTATION/COMMUNICATION CONDUITS SHALL BE:

VOLTAGE	DISTANCE
480V	2 FT
120V	1 FT
44. OWNER HAS FIRST RIGHT TO SALVAGE OF EQUIPMENT/MATERIAL DEMOLISHED/REMOVED UNDER THIS PROJECT. THE CONTRACTOR SHALL DELIVER ALL OWNER SALVAGED EQUIPMENT/MATERIAL TO A SITE SPECIFIED BY THE OWNER. ANY MATERIAL REFUSED BY THE OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR.
45. ALL CONDUCTORS SHALL BE MEGGER TESTED AFTER INSTALLATION AND INSULATION MUST BE IN COMPLIANCE WITH THE NETA ATS MINIMUM VALUES OF INSULATION RESISTANCE.

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FL PE NO.: ~~8689929~~
DATE: FEBRUARY 2022

	3230 W. COMMERCIAL BLVD. SUITE 400 FORT LAUDERDALE, FL 33309		DESIGNED BY: E. KARRISON	DRAWN BY: E. KARRISON
	CHECKED BY: E. ENHAKKINE-BAKER		SUBMITTED BY: E. KARRISON	
ISSUE DATE: FEBRUARY 2026		CONTRACT NO.: F-22-HH-007		

1000 PBIA, SUITE 846
WEST PALM BEACH, FL 33406-1412
PHONE: 561-471-7420

3230 W. COMMERCIAL BLVD,
SUITE 400
FORT LAUDERDALE, FL 33309



AIR CARGO ACCESS IMPROVEMENTS

ELECTRICAL GENERAL NOISES

SHEET ID

三-00.01

