400 AIRWAYS AVENUE
SAVANNAH, GA 31408
912.964.0514

TO: All Plan Holders
Dodge Data & Analytics
Construction Market Data Group
ISQFT
Savannah Entrepreneurial Center
Construction Journal

FROM:

James Aiello
Assistant Director of Engineering

DATE: March 29, 2024

SUBJ: SAC 30610
Air Cargo Facility

Savannah Airport Commission

Attached please find Addendum No. 1 to the contract documents. All bidders shall acknowledge the receipt of Addendum No. 1 in the place provided in the bid proposal.

CM
ENCL: SAC 30610 – Addendum No. 1
CC: Engineering Files

SAVANNAH AIRPORT COMMISSION

SAC 30610
Air Cargo Facility
Addendum No. 1

The following amendments, additions, deletions shall be made to the contract documents. In so far as these documents are at variance with this Addendum No. 1 dated March 29, 2024, the addendum shall govern:

Questions & Answers

Pre-Bid Conference Agenda, Minutes, and Record of Attendance

Soils Report/Boring Locations

Fire Protection Drawings for Building 2

Questions 1 through 8 are from JC Roussel of EE Reed:

1. Please provide CAD files for all disciplines if available.
   Response: The CAD Files are not available during the bidding phase. They will be provided to the awarded Contractor.

2. Please review and confirm our P&P bond capacity with Liberty Mutual satisfies the requirements for this project.
   Response: We cannot answer company specific question during the bid phase. Obtaining a payment and performance bond that meets the requirements in the specification is the responsibility of the contractor.

3. Section states "Signage to comply with Boeing Interior Signage Standards, as noted in the February 2017 Design Guide". Please provide the referenced document.
   Response: Specification 101423.16 - Room Identification Panel Signage
   Delete paragraph 2.1 B.
   Revise paragraph 2.2 A1.c spec item to read: Color(s) to comply with tenant standard as shown on drawing documents. Revise paragraph 2.2. A4 spec item to read: Text and Typeface: Accessible raised characters and Braille as indicated on drawing documents.

4. Sheet B100 shows locations for soil bores, please provide the soils report that relates to these boring locations.
   Response: Please see attached Soils Report.

5. Please confirm if this it to be priced as a unclassified site.
   Response: Classification per Section 1.2 shall be Unclassified Excavation. Pricing shall be in accordance with the measurement and pay items identified in Part 4 and Part 5 of the specification. Revision to specification will be issued in addendum removing the references to Rock Excavation, Much Excavation, Drainage Excavation, and Borrow Excavation.

6. Section states "Contractor shall obtain all permits and pay all fees". Please confirm this includes the Building Permit, as well as TAP and Impact fees.
   Response: Yes, Contractor is responsible for obtaining all permits and paying all related fees that are required by the City of Savannah.

7. We are having trouble locating the referenced E-Verify document we are supposed to fill out with the proposal. Can you please provide this document, or clarify where it is located.
   Response: The E-Verify Document (Contractor Affidavit and Agreement Form) is found on page I-4 within the Instructions To Bidders section.

8. Please provide Fire Protection and Fire Alarm Drawings for Building 2.
   Response: Please see attached.

9. Is the Builders Risk Policy the responsibility of the General Contractor or the Owner?
   Response: The Builders Risk Policy is the responsibility of the General Contractor.

SAVANNAH AIRPORT COMMISSION

SAC 30610 AIR CARGO FACILITY
PRE-BID CONFERENCE AGENDA
MARCH 14, 2024 – 1:30 PM EST

I. INTRODUCTIONS

Jim Aiello, Assistant Director of Engineering, began the meeting. All attendees were asked to sign in on the provided sheet and introduce themselves.
The Savannah Airport Commission (SAC) staff and Design Engineer, Pond & Company, in attendance introduced themselves.

1. Airport POCs

    a. Jim Aiello, Assistant Director of Engineering, jaiello@flysav.com
    b. Crystal Mercado, Engineering Administrator, cmercado@flysav.com

2. Design Engineer – Pond & Company

II. SCOPE OF WORK

Chris Jenkins, P.E. and Andrew Swift, P.E., from Pond & Company discussed the scope of work and major work elements of the project.
The project will consist of constructing two separate air cargo buildings. The apron has been constructed and is currently in use. The buildings are referenced as Building 1 and Building 2 as the names of the tenants have been omitted from the plans.
Building 1 includes construction of a ground and air cargo sort facility for FedEx of approximately 65,500 square feet to include a package/sortation warehouse, maintenance, and office/operation areas. Building 2 includes the construction of a multi-tenant air cargo facility of approximately 61,730 square feet with tenant separation walls defining each of the four proposed tenant areas, which are to be constructed based on tenant requirements for their office and warehouse space within their area.

This project will mostly occur landside. A short phase will occur airside when Air Operations Area (AOA) fencing is relocated and some other work including Ground Support Equipment (GSE) concrete paving.

Sitework includes entrance/exit roads, parking lots, etc. Two main entrances off of Gulfstream Road to be constructed.

Both buildings will require a rigid inclusion system.

Work also includes a Telecommunications connection to the Terminal Building. Work will need to be done inside the Terminal to tie in the system.

1. Project Schedule – 610 Calendar Days

Contractor is to identify any long lead items/materials at the start of the project. The project cannot be delayed due to long lead items.

2. Control of Work

   a. Materials Testing
      - QC testing shall be completed by the Contractor.
      - QA testing shall be completed by the Owner.
      - Special Inspections shall be completed by the Owner.

   b. Maintenance of Work
      - The Contractor is responsible for the site and the work until final acceptance.

   c. Utilities
      - The Contractor is responsible for locating all utilities prior to construction, plan locations are approximate locations only.
      - The Contractor is responsible for any damage to any utilities.

3. Control of Materials - The Contractor is ultimately responsible for the quality and quantity of materials.

III. SAFETY/SECURITY

1. Site Access/Staging Area Location

Site Access is off Gulfstream Road. Gulfstream Road is a high traffic area. Contractor is to have extreme caution entering and exiting the site. Road must kept clean and free of debris at all times.
Staging Area is immediately to the east of the site as noted in the Plans.

2. Badging

Badging is not required for this project. Contractor will be escorted by SAC Operations when work inside the AOA is to be completed.

3. Part 139 Safety and Airfield Security

Contractor is to file a FAA 7460 form at the start of the project for any cranes utilized during the project. It may take 45 days to receive a response letter from the FAA. The form is to be filed electronically https://oeaaa.faa.gov/oeaaa/external/portal.jsp

4. Dust/Foreign Object Debris (FOD) Control

This project will be constructed near active Taxiways. The site must be free of debris at all times.

IV. BID PROPOSAL

1. General Requirements: One copy with original signatures and corporate seals.
2. Addenda: Must Acknowledgement Receipt of all. Last addendum will be issued by April 16, 2024, at 3 PM EST.
3. Deadline for Questions: April 9th, 2024, at 3 PM EST. ALL questions must be submitted in writing via email to Crystal Mercado, cmercado@flysav.com
4. **Bids Due on Tuesday, April 23, 2024, by 1:30 PM EST.**
   Bids must be time and date stamped by the Savannah Airport Commission prior to 1:30pm. Late bids will be considered non-responsive.
   Bids must be delivered or mailed to: Savannah Airport Commission, 400 Airways Ave., Savannah, GA 31408.
   Office Hours are from 9AM-5PM EST. SAC is not responsible for delivery issues.
   5. Must be a plan holder to automatically receive addenda.
   6. Out-of-State contractors must have a Georgia State Tax Registration ID#
   7. Out of state contractors must be registered with the Secretary of State to do business in the state of Georgia.
   8. Include E-Verify form for Prime Contractor
   9. Bid Bond is required.
   10. Awarding the Contract – After the bid opening, SAC will review all bid proposals and award the Contract to the lowest qualified bidder. The Contract will go before the Savannah Airport Commission Board of Commissioners for approval, then it will go before the City of Savannah City Council for final approval.

V. GENERAL ITEMS

1. Insurance Requirements - See Supplementary General Conditions for Insurance details.

   Builders Risk Insurance is required for this project.

2. DBE Participation - 9.29% DBE Goal (UCP Certified)

   a. This is not a federally funded project. The DBE goal is expected to be met but not a requirement. If goal cannot be met, a detailed good-faith effort must be documented.
   b. List of DBE Subcontractors shall be submitted within five (5) days of notice of award. Certifications from each DBE of their DBE status shall be included.
   c. DBE Subcontractors must be UCP Certified. A directory of UCP Certified DBEs can be found on GDOT's website.

3. Davis-Bacon Act Applies – Wage Rates are included in the specifications.

4. Payment and Performance Bonds will be required.

VI. QUESTIONS/ANSWERS

VII. ON-SITE VISIT

Attendees were invited to view the site, and Jim Aiello met with them on site.

VIII. ADJOURN

SAVANNAH AIRPORT COMMISSION
SAVANNAH / HILTON HEAD INTERNATIONAL AIRPORT

RECORD OF MEETING ATTENDANCE

SUBJECT: SAC 30610 Air Cargo Facility Pre-Bid Meeting **DATE – TIME:** March 14, 2024 - 1:30 PM

NAME & TITLE	ORGANIZATION & ADDRESS	TELEPHONE NUMBER	EMAIL ADDRESS
Jim Aiello, E.I.T., Assistant Director of Engineering	SAC, 400 Airways Ave, Savannah, GA 31408	Ext. 3352	jaiello@flySAV.com
Crystal Mercado, Engineering Administrator	SAC, 400 Airways Ave, Savannah, GA 31408	Ext. 4478	cmercado@flySAV.com
Jerry McLean, Senior Engineering Inspector	SAC, 400 Airways Ave, Savannah, GA 31408	Ext. 3377	jmclean@flySAV.com
Chris Jenkins, ~~Aviation Operations Manager~~ Associate Vice President	Pond, 3500 Parkway Lane, Peachtree Corners, GA 30092	404-748-4768	jenkinsc@pondco.com
Andrew Swift, Aviation Civil Director	Pond " " " "	770-317-5534	swiftа@pondco.com
Melissa Phillips, BD Director	Pond, 49 Park of Commerce Way, Suite 203	9126675185 Sav GA 31405	jphillipsm@pondco.com
Kendall Funk	SAC	912-433-2211	Kfunke flysav.com
Monte Dixon	SAC	912-313-8611	mdixone flysav.com

SAC 102 (12-03-19)
SUPERSEDES SAC 102 (3-22-06)

Lenaid Robinson	SAC	3373	LROBINSON@FLYSAV.com
HUNTER BURNS	SAMET CORPORATION	336-978-0959	hburns@sametcorp.com
Andrew Harm	Samet Corporation	912-656-5521	AHarm@ sametcorp.com
Philip Deason	White Electrical	912 658-3574	pdeason@white-electrical.com
PARKER GOLZ	EE REED CONSTRUCTION	704.654.5945	PGOLZ@EEREEDEAST.COM
Jacob Schofill	Akins General Contractors	912-764-6925	jacobs@akinsco.com
Will Usher	McKnight construction	678-925-7600	Blukely@ mcknight~~co.com~~ construction co.com Cale @ mcknight construction co.com
John Matson	SAMET CORP	317-409-7829	jmatson@ samet corp.com
Rob Frontiero	Barnett Southern	706-990-2178	rfrontiero@barnettsouthern.com
Cristhian Moreno	Precision 2000, Inc.	770-570-6095	cmoreno@precision2k.com
David Foskey	F H Paschen	912-944-5499	dfoskey@fhpaschen.com
MAYOWA OLUWATOBA	SAMET CORPORATION	346 212 0547	moluwatoba@sametcorp.com
BARRY FRANSEN	JE DUNN CONSTRUCTION	912.659.4982	BARRY.FRANSEN@JEDUNN.COM
S Horton	JLC CONSTRUCTION	912-944-9710	SHORTON@JOHNSON-LAUK.COM

Deanna Conrad	Johnson-Laux Construction	407-621-6589	estimating@johnson-laux.com dconrad@johnson-laux.com
JC Roussel	EE Reed Construction	703-399-0404	jcrousse/@eereedeast.com
Jonathan Oglesby	Sauer Construction	904 · 262-6444	JOGLESBY@Sauer-inc.com
Steven Nadler	Collins Const. Services Inc.	cell 850 420 8033 office 912 233 2001	snadler@collinsconstructioninc.com
GUY WEIDENBACH VP/COO	COLLINS CONST. INC	SAME	GWEIDENBACH@COLLINSCONSTRUCTIONINC.COM
RACHAEL LEE	RL CONSTRUCTION GROUP	912·313·3295	RLEECONSTRUCTIONGROUP@GMAIL.COM
SHAWN SCHROEDER	SAC	912-433-3594	sschroeder@FCYSAV.com
DAVID HAMILTON	CPPI	912-234-5544	DAVID.HAMILTON@CPPI.COM
Justin Smith	Platinum Paving + Concrete	912-665-5922	Jsmith@platinumpavingga.com
Chad Krompak	C.A. Murren	912-663-6762	chada.krompak@camurren.com
Josh Norton	Reeves Construction	912-656-5414	jnorton@reevescc.com
Michelle Pearce	Samet Corporation	864-399-8082	mpearce@sametcorp.com
Valorie Stokes	POND		virtual
Isaiah Johnson	POND		virtual

Cal -Tech Testing, Inc.

- Engineering
- Geotechnical
- Environmental

LABORATORIES

P.O. Box 1625 • Lake City, FL 32056
Tel. (386) 755-3633 • Fax (386) 752-5456

7540 103rd Street, Suite 215, Jacksonville, FL 32210
Tel. (904) 381-8901 • Fax (904) 381-8902

February 22, 2022

Mr. R. Chris Jenkins, P.E., LEEDR AP DD+C
POND
3500 Parkway Lane, Suite 500
Peachtree Corners, Georgia 30092

RE: Geotechnical Engineering Exploration Report
Savannah Hilton Head International Airport-SAC 30610 Air Cargo Facility
Savannah, Georgia
Cal-Tech Testing Inc. Project No. 21-00547-01

Dear Mr. R. Chris Jenkins, P.E., LEEDR AP DD+C:

This report presents the results of our geotechnical engineering exploration for the proposed SAC 30610 Air Cargo facility development at the Savannah Hilton Head International Airport in Savannah, Georgia. Our geotechnical engineering exploration services were performed in accordance with our proposal dated November 18, 2020, and subsequent approved change order.

The purposes of our geotechnical engineering exploration were to determine and evaluate the subsurface soil conditions including permeability parameters at the project site and provide site preparation and foundation recommendations in regards to design and construction of the proposed building structures, driveway/parking lot and stormwater management facilities.

SITE AND PROJECT INFORMATION

Based on our observations during our field work, the project site is a vacant property scheduled for the development of an air cargo facility consisting of two (+/- 160,000 ft^2 and 60,000 ft^2), 1-story, steel building structures with precast concrete panel exterior walls and associated driveways, parking lots and stormwater management facilities.

Additional information provided to us indicates the structures loading system consists of maximum column and wall loads of 325 kips and 10 kip/ft, respectively. Furthermore, preliminary (30% design) structural drawings indicate shallow foundations designed with a safe soil contact pressure of 2,000 lb/ft^2 are envisioned for support of the structures.

Information in regards to whether raising of grades would be required to establish the finished floor elevations was uncertain for preparation of this report.

SITE SUBSURFACE SOIL EXPLORATION

Our subsurface soil exploration was performed between January 12 and February 17, 2022, and consisted of drilling 14 Standard Penetration Test (SPT) borings (B1 through B14) to depths of

35 ft. to 50 ft and 13 SPT borings (B15 through B18 and B20 through B28) to a depth of 6 ft. In addition, we performed five (5) Double-Ring Infiltrometer (DRI) tests (DRI1 through DRI5) and bulk-sampled near-surface soils from seven (7) locations for determination of the subgrade strength by the California Bearing Ration (CBR) in our laboratory.

The SPT boring location B19 was not drilled as was within an existing stormwater retention pond.

The SPT boring, DRI test and CBR locations were laid out by our field crew using a hand-held Global Positioning System (GPS) device and coordinates provided by you except for SPT boring B3 which location was blocked by the on-going construction project's aggregate stockpile area. Refer to the enclosed Boring Location Plan.

We contacted the local public agency to mark out existing, known underground utilities prior to the beginning of our field exploration.

The SPT borings were advanced using rotary drilling techniques and automatic hammer. The split-spoon sampling was performed continuously in the upper 10 ft. and at 5 ft. intervals thereafter to the termination depth of the borings. The penetration test was performed by driving a 2-inch O.D. split spoon sampler with automatic hammer falling 30 inches. The number of hammer blows required to drive the sampler a total of 24 inches (upper 10 ft.) and 18 inches in 6-inch increments were recorded in boring logs. The penetration resistance, N-values, is the summation of the second and third 6-inch increments and is used to derive soil engineering parameter indexes from empirical correlations. The boreholes were backfilled with soil cuttings at completion.

The DRI tests were performed in general accordance with the Standard Test Method for Infiltration Rate of Soils in Field Using Double-Ring Infiltrometer-ASTM D3385 at a depth of 3 ft. after excavating 10-ft-square test pits.

Laboratory Testing
All soil samples were delivered to our geotechnical laboratory for additional testing and classification as determined by our geotechnical engineer. Laboratory test results are shown in the enclosed boring logs.

SITE SUBSURFACE SOIL CONDITIONS

GENERALIZED SUBSURFACE SOIL PROFILE

The generalized subsurface soil profile inferred from the results of the field exploration consists of approximately 2 ft. of a slightly SILTY SAND stratum underlain by 6 ft. to 16 ft. of a CLAYEY SAND/SANDY CLAY stratum, 6 ft. to 16 ft. of CLAY and the fine to medium SAND stratum, thereafter, to the termination depth of the deep borings.

Exceptions to the generalized subsurface soil profile were realized at boring location B8 without the CLAY stratum and location B11 with 26 ft. of CLAY.

The recorded SPT N-values indicate a Loose (i.e. $5<N<10$) relative density of the strata upper approx. 4 ft, then Medium Dense (i.e.$11<N<30$) with Loose zones through the CLAYEY SAND/SANDY CLAY stratum, Very Soft (i.e. $N<2$) and Soft (i.e. $3<N<4$) consistency through the CLAY stratum and a predominately Dense (i.e. $31<N<50$) to Very Dense (i.e. $N>50$) SAND.

Details of the different subsurface soil strata and SPT blows/foot (N-value) as well as laboratory test results are presented in the log of borings enclosed to this report.

Groundwater
Groundwater was encountered at a depth of 5 ft. at completion of the borings. The United States Department of Agriculture (USDA) National Resources Conservation Service (NRCS), indicates groundwater at zero (0) inches to 12 inches below natural grades for the soil map unit covering the project site.

Based on the Flood Insurance Rate Map (FIRM) No. 13051C0040H, effective since August 16, 2018, the project site is within an "Area of Minimal Flood Hazard-Zone X" except for the west perimeter within a "Special Flood Hazard Area-Zone A"

Observation of boring and test pit samples with soil particles coated with typical yellowish and reddish iron oxide allowed to estimate the Seasonal High Groundwater Table (SHGWT) varying from the ground surface to a depth of approximately 12 inches.

SOIL INFILTRATION RATE
The negligible volumes required to maintain a constant head of water in the inner and outer rings during the performed DRI tests indicate the procedure is unreliable due to the impervious nature (i.e. Hydraulic Conductivity less than about $1.4x10^{-3}$ in/hr-ASTM D3385) of the soils at the test locations and depth of 3 ft.

SUBGRADE SOIL STRENGTH
The CBR laboratory test results indicate the strength of the subgrade soil upper 18 inches below the topsoil at the sample locations are as follows:

CBR No.	Sample Depth (in)	CBR (%)	Max. Dry Density[1] (lb/ft^3)	Optimum Moisture (%)
CBR1	0-18	29.8	117.0	12.5
CBR2	0-18	43.8	106.6	14.5
CBR3	0-18	24.6	118.8	11.2
CBR4	0-18	38.6	113.7	10.9
CBR5	0-18	28.9	114.5	12.2
CBR6	0-18	26.2	112.2	10.9
CBR7	0-18	56.2	115.3	10.6

1-Maximum Dry Density per ASTM D 1557

Reports of performed Laboratory California Bearing Ratio & Modified Proctor Test sheets are enclosed to this report.

SEISMIC SITE CLASSIFICATION
Based on seismic provisions in the International Building Code (IBC) and American Society of Civil Engineers (ASCE) Structural Engineering Institute (SEI) the site classifies as "E" due to the presence of the Soft CLAY stratum with thickness in excess of 10 ft. in the subsurface soil profile.

EVALUATIONS AND RECOMMENDATIONS

BUILDING STRUCTURES
The geotechnical considerations for support of the proposed building structures on a system of shallow foundations are:

1. The compressibility nature of the underlaying Loose relative density zone in the CLAYEY SAND/SANDY CLAY stratum.
2. The highly compressible Very Soft and Soft Clay stratum.
3. The relatively high column and wall loads.
4. The large area of the structures' footprints.

Estimates performed based on the column and wall loads alone indicate intolerable settlements on the order of 2 inches to 2.5 inches would occur as the result of the compression of the of the CLAYEY SAND/SANDY CLAY stratum and the consolidation of the CLAY stratum if the structure is supported on footings designed with a safe soil contact pressure of 2,000 lb/ft^2. Though settlement could be minimized to nearly under 1 inch by lowering the footing soil contact pressures to 1,500 lb/ft^2, an additional 1 inch large-area settlement would be induced by the combined load of an 8-in concrete slab and 12 inches of fill material, if required to establish the finished floor elevations.

Consequently, the underlaying compressible soils need to be modified by a preloading surcharge to induce settlement prior to construction of the footings or a system of piles transferring the column, wall and slab loads to the Dense and Very Dense SAND stratum might be installed.

A preloading surcharge typically consists of large volumes of fill material and requires long periods of time for consolidation of the encountered foundation soils. On the other hand, conventional concrete and steel piles are suitable to transfer the column and wall loads to the competent SAND stratum but often result economically unattractive as they provide higher-than-required axial load capacities for support of the fill and concrete slab loads.

Therefore, we recommend the implementation of a Rigid Inclusions program consisting of stiff vertical cement-based columns, with or without Load Transfer Platform, designed to transfer the load of the fill/slab and columns/walls to the Dense and Very Dense SAND stratum with tolerable settlements.

The Rigid Inclusion program should consist of the design of column pattern, spacing, vertical load and Load Transfer Platform as well as their installation by the specialty subcontractor certifying tolerable settlement of the structures. After satisfactory implementation of the Rigid Inclusions program and certification by the specialty subcontractor professional engineer, the structures could be supported on footings designed with a safe soil contact pressure of up to 5,000 lb/ft^2.

DRIVEWAY & PARKING LOT PAVEMENTS

The encountered subsurface soil conditions are suitable for the construction of the proposed driveway and parking lot pavements provided the subgrade upper 12 inches are improved to a minimum CBR of 32 and compacted to at least 98% of the material's Maximum Dry Density (ASTM D1557).

Based on a SHGWT less than 3 ft. below the pavement base course, the automobile standard-duty driveway and parking lot pavements should consist of minimum 8 inches thick base course (minimum CBR 80) compacted to 98% of the Material's Maximum Dry density and a minimum 1.5-in thick asphalt surface course. For truck heavy-duty driveways and parking lots, the pavements base course (CBR 80) should be 10-in thick and the asphalt surface course 2-in thick.

A maintenance program to address driveway and parking lot time-dependent, large-area, pavement settlement of about 0.5 inches or higher resulting from consolidation of the CLAY stratum under loads equivalent to a 12-in thick or thicker lift of fill will likely be required.

UNDERGROUND UTILITIES

Installation of underground utilities should be performed in accordance with the project drawings and specifications. Based on the encountered subsurface soils, the SILTY SAND stratum is suitable for reuse as backfilling material; however, the CLAYEY SAND/SANDY CLAY will result difficult to compact and may need to be replaced with approved fill material.

When backfilling over utility lines, the fill should be placed in lifts not to exceed 12 inches in loose thickness and compacted to 95% of the material's Maximum Dry Density as per (ASTM D-1557).

Approved fill material should consist of granular soil with a maximum nominal size of 3 inches, no more than 12% of fines and no organic matter.

Groundwater control might be required during excavation and backfilling of underground utilities.

QUALITY CONTROL

The implementation of the Rigid Inclusion program should be monitored by a qualified engineer technician to assure satisfactory installation.

LIMITATIONS

Information on subsurface strata and groundwater levels shown on the logs represent conditions encountered only at the locations indicated and at the time of the exploration. If different conditions are encountered during construction, they should be immediately brought to our attention for evaluation as they may affect our recommendations.

We request the Rigid Inclusion program be submitted to us for our review and comments prior to implementation.

We request a set of the final project structural drawings be submitted for our review prior to construction.

CLOSURE

It has been a pleasure working with you and we look forward to continuing work on this and future projects

Sincerely,

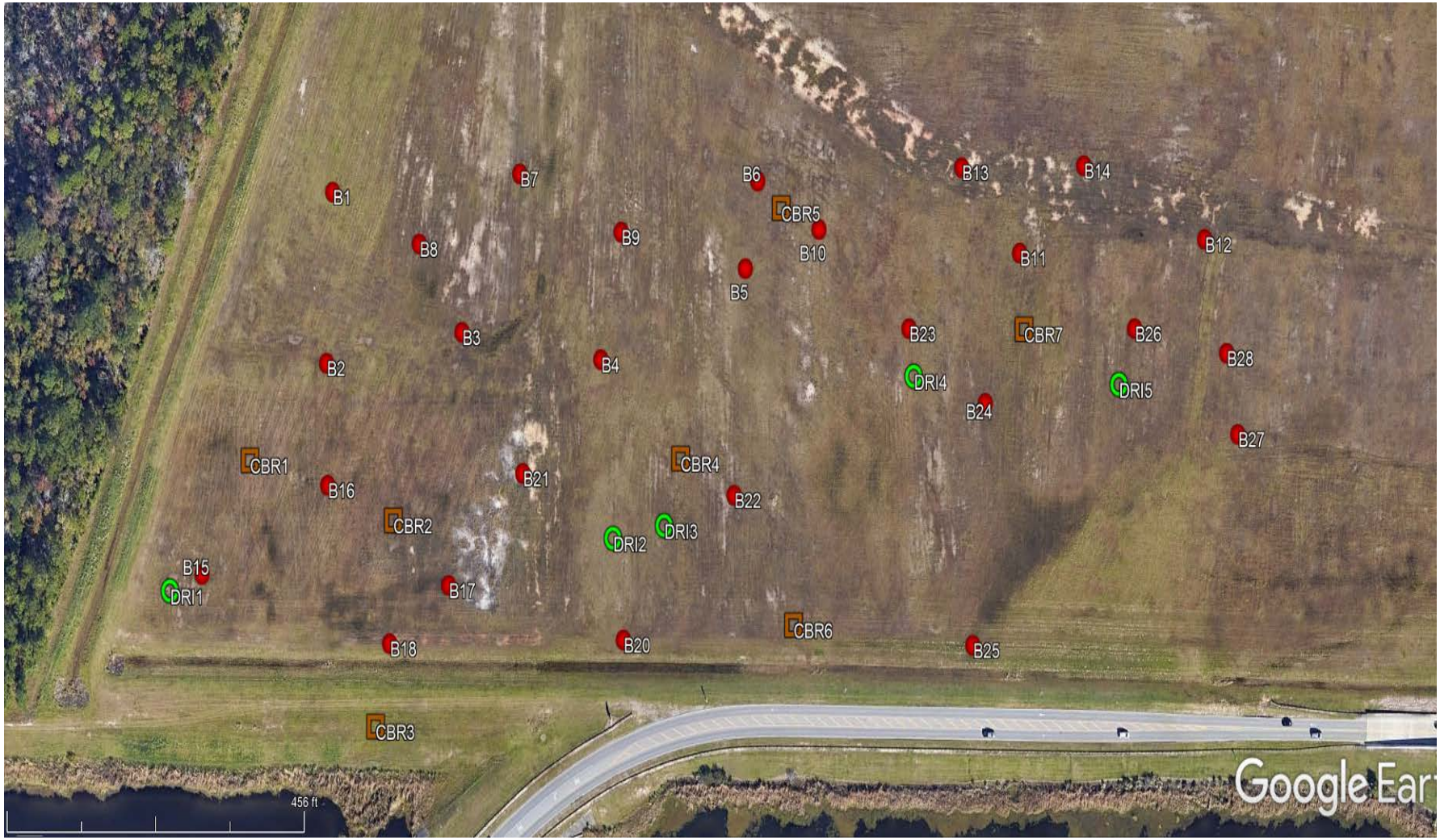
Cal-Tech Testing, Inc.

GEORGIA REGISTERED No. 43588 PROFESSIONAL ENGINEER IVAN E. MARCANO 2/22/22

Ivan E. Marcano, MSCE, P.E.
Sr. Geotechnical Engineer

Mike Stalvey, Jr.
Vice-President

Enclosures:
Boring Location Plan
Boring Logs
CBR Sheets



CAL-TECH TESTING, INC.
P.O. BOX 1625

Lake City, Florida 32056-1625
Phone: (386) 755-3633
Fax: (386) 752-5456

BORING LOCATION PLAN

Savannah Hilton Head Int'l Airport-Cargo Facility Development

Savannah, Georgia

Cal-Tech Testing, Inc.
3309 SR 247
Lake City, FL 32024
Telephone: 386-755-3633
Fax: 386-755-3633

BORING NUMBER B1

CLIENT POND
PROJECT NAME Savannah Hilton/Head Int'l Airport-Cargo Facility Dev.
PROJECT NUMBER 21-00547-01
PROJECT LOCATION Savannah, Georgia
DATE STARTED 1/12/22 **COMPLETED** 2/15/22
GROUND ELEVATION 0 ft **HOLE SIZE** 3-in dia. x 45 ft. depth
DRILLING CONTRACTOR Cal-Tech Testing, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Rotary Mud Drilling/SPT
AT TIME OF DRILLING ---
LOGGED BY B.S. **CHECKED BY** I.M.
AT END OF DRILLING 5.00 ft / Elev -5.00 ft
NOTES Elev. refered to ground surface
AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA NUMBER	TYPE	RECOVERY (%) (RQD) %	BLOW COUNTS (N VALUE)	REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
	(SM) Light gray **SILTY SAND** with yellowish brown mottles		2	1	SS	75	1-3-3-4 (6)	Boring Location Coordinates; N32°08'37.74" W81°12'38.34"
	(SP) Gray **SAND**		4	2	SS	71	4-4-6-4 (10)	SS=Split Spoon sampler
	(SC) Gray **CLAYEY SAND** with reddish and yellowish brown mottles		6	3	SS	75	2-3-4-5 (7)	SS-1 Fines content=12.1% SS-3 Fines content=29.5%
	(SC) Gray **CLAYEY SAND**		8	4	SS	75	6-8-8-7 (16)	
-10	(SC) Light greenish gray **CLAYEY SAND**		10	5	SS	71	6-6-7-7 (13)	SS-5 Fines content=18.3%
			12					
			14	6	SS	83	3-1-1 (2)	
			16					
			18					
-20	(CH) Dark gray **CLAY**		20	7	SS	100	1-1-1 (2)	
			22					
			24	8	SS	100	1-1-2 (3)	
			26					
			28					
-30			30	9	SS	100	1-1-1 (2)	
			32					
			34	10	SS	100	1-3-3 (6)	
	(SC) Dark gray **CLAYEY SAND**		36					
			38					
-40	(SW) Gray fine to medium **SAND**		40	11	SS	67	9-16-16 (32)	
			42					
			44	12	SS	67	9-18-25 (43)	
	Bottom of borehole at 45.0 feet.							

Cal-Tech Testing, Inc.
3309 SR 247
Lake City, FL 32024
Telephone: 386-755-3633
Fax: 386-755-3633

BORING NUMBER B2

CLIENT POND
PROJECT NAME Savannah Hilton/Head Int'l Airport-Cargo Facility Dev.
PROJECT NUMBER 21-00547-01
PROJECT LOCATION Savannah, Georgia
DATE STARTED 1/12/22 **COMPLETED** 2/15/22
GROUND ELEVATION 0 ft **HOLE SIZE** 3-in dia. x 45 ft. depth
DRILLING CONTRACTOR Cal-Tech Testing, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Rotary Mud Drilling/SPT
AT TIME OF DRILLING ---
LOGGED BY B.S. **CHECKED BY** I.M.
AT END OF DRILLING 6.00 ft / Elev -6.00 ft
NOTES Elev. refered to ground surface
AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA: NUMBER	TYPE	RECOVERY (%) (RQD) %	BLOW COUNTS (N VALUE)	REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
	(SM) Yellowish brown **SILTY SAND**		2	1	SS	75	2-5-5-5 (10)	Boring Location Coordinates; N32°08'35.86" W81°12'38.45"
			4	2	SS	75	2-3-3-5 (6)	
	(CL) Dark gray to greenish gray **SANDY CLAY** with yellowish brown mottles		6	3	SS	71	4-5-7-7 (12)	SS=Split Spoon sampler SS-2B Fines content=51.4 SS-2B Liquid Limit=36 SS-2B Plasticity Index=14
	▼		8	4	SS	75	7-11-12-13 (23)	
-10			10	5	SS	75	6-5-10-11 (15)	
			12					
	(SP-SC) Light greenish gray **SAND** with clay		14	6	SS	94	6-7-8 (15)	SS-6 Fines content=6.8%
			16					
			18					
-20	(CH) Dark gray **CLAY**		20	7	SS	100	1-1-1 (2)	
			22					
			24	8	SS	100	1-1-1 (2)	
			26					
			28					
-30			30	9	SS	100	1-1-1 (2)	
			32					
			34	10	SS	100	3-3-5 (8)	
	(SC) Dark gray **CLAYEY SAND**		36					
			38					
-40	(SW) Gray fine to medium **SAND**		40	11	SS	94	8-14-20 (34)	
			42					
			44	12	SS	100	10-22-28 (50)	
	Bottom of borehole at 45.0 feet.							

Cal-Tech Testing, Inc.
3309 SR 247
Lake City, FL 32024
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Fax: 386-755-3633

BORING NUMBER B3

CLIENT POND
PROJECT NAME Savannah Hilton/Head Int'l Airport-Cargo Facility Dev.
PROJECT NUMBER 21-00547-01
PROJECT LOCATION Savannah, Georgia
DATE STARTED 2/14/22 **COMPLETED** 2/14/22
GROUND ELEVATION 0 ft **HOLE SIZE** 3-in dia. x 35 ft. depth
DRILLING CONTRACTOR Cal-Tech Testing, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Rotary Mud Drilling/SPT
AT TIME OF DRILLING ---
LOGGED BY B.S. **CHECKED BY** I.M.
AT END OF DRILLING 5.00 ft / Elev -5.00 ft
NOTES Elev. refered to ground surface
AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA NUMBER	TYPE	RECOVERY (%) (RQD) %	BLOW COUNTS (N VALUE)	REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
	(SM) Light gray **SILTY SAND** with yellowish brown mottles at 2.5 ft		2	1	SS	75	3-4-6-5 (10)	Boring Location Coordinates: N32°08'36.20" W81°12'36.04"
	(CL) Dark gray **SANDY CLAYEY**		4	2	SS	79	3-4-4-4 (8)	SS=Split Spoon sampler
			6	3	SS	63	4-4-7-5 (11)	
			8	4	SS	50	6-6-7-12 (13)	
-10	(SP-SC) Greenish gray **SAND** with clay		10	5	SS	75	10-9-11-14 (20)	
			12					
	(SC) Light greenish gray **CLAYEY SAND**		14	6	SS	94	2-2-2 (4)	
			16					
			18					
-20	(SP-SC) Light greenish gray **SAND** with clay		20	7	SS	94	2-5-7 (12)	
			22					
			24	8	SS	72	5-7-6 (13)	
			26					
			28					
-30	(SW) Gray fine to medium **SAND**		30	9	SS	83	2-6-4 (10)	
			32					
			34	10	SS	78	8-13-16 (29)	
	Bottom of borehole at 35.0 feet.							

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BORING NUMBER B4

CLIENT POND
PROJECT NAME Savannah Hilton/Head Int'l Airport-Cargo Facility Dev.
PROJECT NUMBER 21-00547-01
PROJECT LOCATION Savannah, Georgia
DATE STARTED 1/14/22 **COMPLETED** 1/14/22
GROUND ELEVATION 0 ft **HOLE SIZE** 3-in dia. x 50 ft. depth
DRILLING CONTRACTOR Cal-Tech Testing, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Rotary Mud Drilling/SPT
AT TIME OF DRILLING ---
LOGGED BY B.S. **CHECKED BY** I.M.
AT END OF DRILLING 7.00 ft / Elev -7.00 ft
NOTES Elev. refered to ground surface
AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA NUMBER	TYPE	RECOVERY (%) (RQD) %	BLOW COUNTS (N VALUE)	REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
	(SM) Light gray **SILTY SAND**		2	1	SS	75	2-4-4-4 (8)	Boring Location Coordinates; N32°08'35.90" W81°12'33.57"
	(SC) Gray **CLAYEY SAND** with yellowish brown mottles		4	2	SS	75	3-3-4-4 (7)	SS=Split Spoon sampler
	(SC) Reddish gray **CLAYEY SAND**		6	3	SS	75	6-9-13-9 (22)	
	▼		8	4	SS	71	8-9-11-10 (20)	
-10	(SP) Light gray **SAND**		10	5	SS	71	10-9-7-5 (16)	
			12					
	(SC) Light greenish gray **CLAYEY SAND**		14	6	SS	94	3-2-7 (9)	
			16					
			18					
-20	(CH) Dark gray **CLAY**		20	7	SS	100	0-0-1 (1)	Zero Blow count=Weight of Hammer
			22					
			24	8	SS	100	0-0-7 (7)	
	(SW) Dark gray fine to medium **SAND**		26					
			28					
-30			30	9	SS	100	8-12-18 (30)	
			32					
			34	10	SS	100	9-13-15 (28)	
			36					
			38					
-40			40	11	SS	100	18-28-28 (56)	
			42					
			44	12	SS	89	14-25-45 (70)	
			46					
			48					
-50			50	13	SS	78	17-25-32 (57)	
	Bottom of borehole at 50.0 feet.							

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BORING NUMBER B5

CLIENT POND
PROJECT NAME Savannah Hilton/Head Int'l Airport-Cargo Facility Dev.
PROJECT NUMBER 21-00547-01
PROJECT LOCATION Savannah, Georgia
DATE STARTED 1/13/22 **COMPLETED** 1/13/22
GROUND ELEVATION 0 ft **HOLE SIZE** 3-in dia. x 50 ft. depth
DRILLING CONTRACTOR Cal-Tech Testing, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Rotary Mud Drilling/SPT
▽ **AT TIME OF DRILLING** 8.00 ft / Elev -8.00 ft
LOGGED BY B.S. **CHECKED BY** I.M.
AT END OF DRILLING ---
NOTES Elev. refered to ground surface
AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA NUMBER	TYPE	RECOVERY (%) (RQD) %	BLOW COUNTS (N VALUE)	REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
	(SM) Light gray **SILTY SAND**		2	1	SS	79	1-3-4-3 (7)	Boring Location Coordinates; N32°08'36.90" W81°12'31.00"
	(SC) Gray **CLAYEY SAND** with yellowish brown mottles		4	2	SS	75	4-5-5-5 (10)	SS=Split Spoon sampler
			6	3	SS	75	6-8-9-8 (17)	
	(SP-SM) Yellow **SAND** with silt		8	4	SS	92	7-8-9-12 (17)	
	(CL) Red **CLAY**							
	(SM) Light reddish gray **SILTY SAND**			5	SS	92	10-7-6-6 (13)	
-10	(CL) Gray **CLAY** with roots		10					
	(SP-SC) Light gray to gray **SAND** with clay		12					
			14	6	SS	83	4-3-1 (4)	SS-6 Fines content=9.2%
			16					
			18					
-20	(CH) Dark gray **CLAY**		20	7	SS	100	0-1-1 (2)	Zero Blow count=Weight of Hammer SS-7 Moisture Content=73% SS-7 Liquid Limit=65 SS-7 Plasticity Index=45
			22					
			24	8	SS	89	0-0-0 (0)	
			26					
			28					
-30	(SW) Dark gray fine to medium **SAND**		30	9	SS	56	8-16-17 (33)	
			32					
			34	10	SS	44	8-20-24 (44)	
			36					
			38					
-40			40	11	SS	94	10-21-26 (47)	
			42					
			44	12	SS	100	10-18-19 (37)	
			46					
			48					
-50			50	13	SS	100	8-19-25 (44)	
	Bottom of borehole at 50.0 feet.							

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BORING NUMBER B6

CLIENT POND
PROJECT NAME Savannah Hilton/Head Int'l Airport-Cargo Facility Dev.
PROJECT NUMBER 21-00547-01
PROJECT LOCATION Savannah, Georgia
DATE STARTED 1/13/22 **COMPLETED** 1/13/22
GROUND ELEVATION 0 ft **HOLE SIZE** 3-in dia. x 50 ft. depth
DRILLING CONTRACTOR Cal-Tech Testing, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Rotary Mud Drilling/SPT
▽ **AT TIME OF DRILLING** 10.00 ft / Elev -10.00 ft
LOGGED BY B.S. **CHECKED BY** I.M.
AT END OF DRILLING ---
NOTES Elev. refered to ground surface
AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA: NUMBER	TYPE	RECOVERY (%) (RQD) %	BLOW COUNTS (N VALUE)	REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
	(SP) Light gray **SAND**		2	1	SS	83	3-4-6-6 (10)	Boring Location Coordinates; N32°08'37.86" W81°12'30.78"
	(SC) Gray **CLAYEY SAND**		4	2	SS	42	3-3-4-4 (7)	SS=Split Spoon sampler
	(SC) Dark gray **CLAYEY SAND** with yellowish brown mottles and thhin interbedded greenish gray clay		6	3	SS	33	4-5-8-10 (13)	
	(SC) Light greenish gray and red **CLAYEY SAND**		8	4	SS	75	8-8-9-5 (17)	
-10	▽		10	5	SS	75	5-5-5-4 (10)	SS-5 Fines content=23.4%
			12	6	SS	79	4-4-4-4 (8)	
	(SP-SC) Dark gray **SAND** with clay		14	7	SS	83	2-4-5 (9)	SS-7 Fines content=11.2%
			16					
			18					
-20	(CH) Dark gray **CLAY**		20	8	SS	100	0-0-0 (0)	Zero Blow count=Weight of Hammer SS-8 Moisture content=53.1%
			22					
			24	9	SS	100	0-0-0 (0)	
			26					
			28					
-30	(SW) Dark gray fine to medium **SAND**		30	10	SS	44	3-15-24 (39)	
			32					
			34	11	SS	94	7-11-16 (27)	
			36					
			38					
-40			40	12	SS	94	7-13-15 (28)	
			42					
			44	13	SS	100	12-20-25 (45)	
			46					
			48					
-50			50	14	SS	100	11-20-22 (42)	
	Bottom of borehole at 50.0 feet.							

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BORING NUMBER B7

CLIENT POND
PROJECT NAME Savannah Hilton/Head Int'l Airport-Cargo Facility Dev.
PROJECT NUMBER 21-00547-01
PROJECT LOCATION Savannah, Georgia
DATE STARTED 1/17/22 **COMPLETED** 1/17/22
GROUND ELEVATION 0 ft **HOLE SIZE** 3-in dia. x 50 ft. depth
DRILLING CONTRACTOR Cal-Tech Testing, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Rotary Mud Drilling/SPT
AT TIME OF DRILLING ---
LOGGED BY B.S. **CHECKED BY** I.M.
AT END OF DRILLING 5.00 ft / Elev -5.00 ft
NOTES Elev. refered to ground surface
AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA: NUMBER	TYPE	RECOVERY (%) (RQD) %	BLOW COUNTS (N VALUE)	REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
	(SP-SC) Light gray **SAND** with clay		2	1	SS	79	3-6-8-9 (14)	Boring Location Coordinates; N32°08'37.94" W81°12'35.01"
	(SC) Gray to reddish gray **CLAYEY SAND** with yellowish brown mottles		4	2	SS	88	7-4-6-6 (10)	SS=Split Spoon sampler
			6	3	SS	79	6-6-7-6 (13)	SS-2B Moisture content=26.7%
			8	4	SS	83	7-8-7-6 (15)	SS-2B Fines content=40.3%
-10			10	5	SS	79	7-8-9-10 (17)	SS-2B Liquid Limit=28
			12					SS-2B Plasticity Index=14
	(SP-SC) Dark gray **SAND** with clay		14	6	SS	83	2-3-4 (7)	
			16					
			18					
-20	(CH) Dark gray **CLAY**		20	7	SS	89	0-1-1 (2)	Zero Blow count=Weight of Hammer
			22					
			24	8	SS	83	0-0-0 (0)	
			26					
			28					
-30	(SW) Dark gray fine to medium **SAND**		30	9	SS	72	7-8-6 (14)	
			32					
			34	10	SS	89	12-13-14 (27)	
			36					
			38					
-40			40	11	SS	89	11-18-18 (36)	
			42					
			44	12	SS	94	15-21-25 (46)	
			46					
			48					
-50			50	13	SS	94	17-22-31 (53)	
	Bottom of borehole at 50.0 feet.							

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BORING NUMBER B8

CLIENT POND
PROJECT NAME Savannah Hilton/Head Int'l Airport-Cargo Facility Dev.
PROJECT NUMBER 21-00547-01
PROJECT LOCATION Savannah, Georgia
DATE STARTED 2/15/22 **COMPLETED** 2/15/22
GROUND ELEVATION 0 ft **HOLE SIZE** 3-in dia. x 35 ft. depth
DRILLING CONTRACTOR Cal-Tech Testing, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Rotary Mud Drilling/SPT
AT TIME OF DRILLING ---
LOGGED BY B.S. **CHECKED BY** I.M.
AT END OF DRILLING 5.00 ft / Elev -5.00 ft
NOTES Elev. refered to ground surface
AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA NUMBER	TYPE	RECOVERY (%) (RQD) %	BLOW COUNTS (N VALUE)	REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
	(SM) Light gray **SILTY SAND** with yellowish brown mottles		2	1	SS	88	2-4-5-5 (9)	Boring Location Coordinates: N32°08'37.17" W81°12'36.80"
	(CL) Gray **SANDY CLAY** with red and yellowish brown mottles		4	2	SS	63	3-2-3-4 (5)	SS=Split Spoon sampler
			6	3	SS	71	8-10-9-12 (19)	
			8	4	SS	75	10-11-13-14 (24)	
-10	(SP) Light gray to greenish gray **SAND**		10	5	SS	75	9-11-12-8 (23)	
			12					
			14	6	SS	78	1-3-3 (6)	
			16					
			18					
-20	(SC) Light grrenish gray **CLAYEY SAND**		20	7	SS	72	2-3-2 (5)	
			22					
	(SW) Gray fine to medium **SAND**		24	8	SS	67	5-6-5 (11)	
			26					
			28					
-30			30	9	SS	78	7-11-19 (30)	
			32					
			34	10	SS	78	5-12-16 (28)	
	Bottom of borehole at 35.0 feet.							

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BORING NUMBER B9

CLIENT POND
PROJECT NAME Savannah Hilton/Head Int'l Airport-Cargo Facility Dev.
PROJECT NUMBER 21-00547-01
PROJECT LOCATION Savannah, Georgia
DATE STARTED 1/18/22 **COMPLETED** 1/18/22
GROUND ELEVATION 0 ft **HOLE SIZE** 3-in dia. x 50 ft. depth
DRILLING CONTRACTOR Cal-Tech Testing, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Rotary Mud Drilling/SPT
AT TIME OF DRILLING ---
LOGGED BY B.S. **CHECKED BY** I.M.
AT END OF DRILLING ---
NOTES Elev. refered to ground surface
AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA NUMBER	TYPE	RECOVERY (%) (RQD) %	BLOW COUNTS (N VALUE)	REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
	(SM) Light gray **SILTY SAND**		2	1	SS	88	2-2-3-3 (5)	Boring Location Coordinates: N32°08'37.30" W81°12'33.21"
	(SC) Gray **CLAYEY SAND** with yellowish brown mottles		4	2	SS	71	2-4-5-7 (9)	SS=Split Spoon sampler SS-3 Fines content=43.2%
			6	3	SS	71	7-7-9-10 (16)	
			8	4	SS	71	7-8-7-7 (15)	
	(SC) Light greenish gray **CLAYEY SAND**		10	5	SS	79	5-7-6-6 (13)	
-10			12					
			14	6	SS	67	2-4-5 (9)	
	(SC) Dark gray **CLAYEY SAND**		16					
			18					
-20	(CH) Dark gray **CLAY**		20	7	SS	89	0-0-0 (0)	Zero Blow count=Weight of Hammer
			22					
			24	8	SS	100	0-0-0 (0)	
			26					
			28					
-30	(SW) Dark gray fine to medium **SAND**		30	9	SS	89	4-5-8 (13)	
			32					
			34	10	SS	89	5-11-10 (21)	
			36					
			38					
-40			40	11	SS	83	12-24-33 (57)	
			42					
			44	12	SS	83	15-29-32 (61)	
			46					
			48					
-50			50	13	SS	89	21-28-34 (62)	
	Bottom of borehole at 50.0 feet.							

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BORING NUMBER B10

CLIENT POND
PROJECT NAME Savannah Hilton/Head Int'l Airport-Cargo Facility Dev.
PROJECT NUMBER 21-00547-01
PROJECT LOCATION Savannah, Georgia
DATE STARTED 1/18/22 **COMPLETED** 1/18/22
GROUND ELEVATION 0 ft **HOLE SIZE** 3-in dia. x 50 ft. depth
DRILLING CONTRACTOR Cal-Tech Testing, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Rotary Mud Drilling/SPT
AT TIME OF DRILLING ---
LOGGED BY B.S. **CHECKED BY** I.M.
AT END OF DRILLING 5.00 ft / Elev -5.00 ft
NOTES Elev. refered to ground surface
AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA NUMBER	TYPE	RECOVERY (%) (RQD) %	BLOW COUNTS (N VALUE)	REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
	(SM) Light gray **SILTY SAND** with yellowish brown mottles		2	1	SS	75	2-3-5-5 (8)	Boring Location Coordinates; N32°08'37.33" W81°12'29.69"
	(SC) Dark gray **CLAYEY SAND** with yellowish brown mottles		4	2	SS	79	2-3-3-4 (6)	SS=Split Spoon sampler
			6	3	SS	71	4-5-6-6 (11)	
			8	4	SS	71	6-6-6-6 (12)	
-10	(SC) Reddish gray and greenish gray **CLAYEY SAND**		10	5	SS	67	6-6-5-5 (11)	
			12					
	(SP-SC) Dark gray **SAND** with clay		14	6	SS	89	4-9-5 (14)	
			16					
			18					
-20	(CH) Dark gray **CLAY**		20	7	SS	94	0-0-0 (0)	Zero Blow count=Weight of Hammer
			22					
			24	8	SS	94	0-11-13 (24)	
	(SW) Dark gray fine to medium **SAND**		26					
			28					
-30			30	9	SS	83	11-12-14 (26)	
			32					
			34	10	SS	89	7-10-12 (22)	
			36					
			38					
-40			40	11	SS	89	10-18-28 (46)	
			42					
			44	12	SS	83	9-9-14 (23)	
			46					
			48					
-50			50	13	SS	83	7-13-20 (33)	
	Bottom of borehole at 50.0 feet.							

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BORING NUMBER B11

CLIENT POND
PROJECT NAME Savannah Hilton/Head Int'l Airport-Cargo Facility Dev.
PROJECT NUMBER 21-00547-01
PROJECT LOCATION Savannah, Georgia
DATE STARTED 2/15/22 **COMPLETED** 2/15/22
GROUND ELEVATION 0 ft **HOLE SIZE** 3-in dia. x 45 ft. depth
DRILLING CONTRACTOR Cal-Tech Testing, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Rotary Mud Drilling/SPT
AT TIME OF DRILLING ---
LOGGED BY B.S. **CHECKED BY** I.M.
AT END OF DRILLING 5.00 ft / Elev -5.00 ft
NOTES Elev. refered to ground surface
AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA: NUMBER	TYPE	RECOVERY (%) (RQD) %	BLOW COUNTS (N VALUE)	REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
	(SM) Light gray **SILTY SAND** with yellowish brown mottles		2	1	SS	92	1-3-5-3 (8)	Boring Location Coordinates: N32°08'37.07" W81°12'26.12"
	(CL) Gray **SANDY CLAY**		4	2	SS	117	3-3-4-4 (7)	SS=Split Spoon sampler
	▼		6	3	SS	92	4-5-6-6 (11)	
			8	4	SS	92	6-9-8-5 (17)	
-10	(CH) Dark gray **CLAY**		10	5	SS	67	4-4-5-5 (9)	
			12					
			14	6	SS	67	1-1-2 (3)	
			16					
			18					
-20			20	7	SS	100	1-0-0 (0)	Zero (0) blow counts=weight of hammer
			22					
			24	8	SS	100	1-1-1 (2)	
			26					
			28					
-30			30	9	SS	100	1-1-1 (2)	
			32					
			34	10	SS	100	1-3-4 (7)	
			36					
			38					
-40	(SW) Gray fine to medium **SAND**		40	11	SS	78	9-16-15 (31)	
			42					
			44	12	SS	83	12-17-18 (35)	
	Bottom of borehole at 45.0 feet.							

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BORING NUMBER B12

CLIENT POND
PROJECT NAME Savannah Hilton/Head Int'l Airport-Cargo Facility Dev.
PROJECT NUMBER 21-00547-01
PROJECT LOCATION Savannah, Georgia
DATE STARTED 2/16/22 **COMPLETED** 2/16/22
GROUND ELEVATION 0 ft **HOLE SIZE** 3-in dia. x 40 ft. depth
DRILLING CONTRACTOR Cal-Tech Testing, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Rotary Mud Drilling/SPT
AT TIME OF DRILLING ---
LOGGED BY B.S. **CHECKED BY** I.M.
AT END OF DRILLING 5.00 ft / Elev -5.00 ft
NOTES Elev. refered to ground surface
AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA: NUMBER	TYPE	RECOVERY (%) (RQD) %	BLOW COUNTS (N VALUE)	REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
	(SM) Light gray **SILTY SAND** with yellowish brown mottles		2	1	SS	83	1-3-1-1 (4)	Boring Location Coordinates: N32°08'37.22" W81°12'22.83"
	(CL) Gray **SANDY CLAY** with yellowish brown mottles		4	2	SS	75	2-2-4-4 (6)	SS=Split Spoon sampler
	▼		6	3	SS	75	5-5-7-8 (12)	
			8	4	SS	83	9-10-9-12 (19)	
-10			10	5	SS	83	12-8-8-9 (16)	
			12					
	(CH) Dark gray **CLAY**		14	6	SS	67	1-2-2 (4)	
			16					
			18					
-20			20	7	SS	67	1-1-1 (2)	
			22					
			24	8	SS	100	1-2-2 (4)	
			26					
			28					
-30	(SW) Gray fine to medium **SAND**		30	9	SS	78	3-7-12 (19)	
			32					
			34	10	SS	78	7-10-18 (28)	
			36					
			38					
-40			40	11	SS	83	16-19-23 (42)	
	Bottom of borehole at 40.0 feet.							

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BORING NUMBER B13

CLIENT POND
PROJECT NAME Savannah Hilton/Head Int'l Airport-Cargo Facility Dev.
PROJECT NUMBER 21-00547-01
PROJECT LOCATION Savannah, Georgia
DATE STARTED 1/19/22 **COMPLETED** 1/19/22
GROUND ELEVATION 0 ft **HOLE SIZE** 3-in dia. x 50 ft. depth
DRILLING CONTRACTOR Cal-Tech Testing, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Rotary Mud Drilling/SPT
AT TIME OF DRILLING ---
LOGGED BY B.S. **CHECKED BY** I.M.
AT END OF DRILLING 5.00 ft / Elev -5.00 ft
NOTES Elev. refered to ground surface
AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA: NUMBER	TYPE	RECOVERY (%) (RQD) %	BLOW COUNTS (N VALUE)	REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
	(SM) Light gray **SILTY SAND** with yellowish brown mottles		2	1	SS	83	10-15-12-13 (27)	Boring Location Coordinates; N32°08'38.01" W81°12'27.15"
	(CL) Gray and greenish **CLAYEY SAND** with yellowish brown mottles		4	2	SS	83	4-6-7-9 (13)	SS=Split Spoon sampler
	▼		6	3	SS	88	7-10-12-13 (22)	
	(SM) Reddish gray **SILTY SAND** with yellowish brown mottles		8	4	SS	88	15-20-19-19 (39)	
-10	(SP) Gray fine **SAND**		10	5	SS	88	19-20-20-16 (40)	
			12					
	(SC) Gray **CLAYEY SAND**		14	6	SS	78	2-3-2 (5)	
	(CH) Dark gray **CLAY**		16					
			18					
-20			20	7	SS	89	0-0-0 (0)	Zero Blow count=Weight of Hammer
			22					
	(SC) Dark gray **CLAYEY SAND**		24	8	SS	94	0-2-5 (7)	SS-8 Fines content=20.9%
			26					
			28					
-30	(SW) Dark gray fine to medium **SAND**		30	9	SS	83	6-5-6 (11)	
			32					
			34	10	SS	72	11-16-20 (36)	
			36					
			38					
-40			40	11	SS	67	12-20-21 (41)	
			42					
			44	12	SS	67	10-16-19 (35)	
			46					
			48					
-50			50	13	SS	78	13-22-29 (51)	

Bottom of borehole at 50.0 feet.

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BORING NUMBER B14

CLIENT POND
PROJECT NAME Savannah Hilton/Head Int'l Airport-Cargo Facility Dev.
PROJECT NUMBER 21-00547-01
PROJECT LOCATION Savannah, Georgia
DATE STARTED 2/15/22 **COMPLETED** 2/15/22
GROUND ELEVATION 0 ft **HOLE SIZE** 3-in dia. x 40 ft. depth
DRILLING CONTRACTOR Cal-Tech Testing, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Rotary Mud Drilling/SPT
AT TIME OF DRILLING ---
LOGGED BY B.S. **CHECKED BY** I.M.
AT END OF DRILLING 5.00 ft / Elev -5.00 ft
NOTES Elev. refered to ground surface
AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA NUMBER	TYPE	RECOVERY (%) (RQD) %	BLOW COUNTS (N VALUE)	REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
	(SM) Dark gray to gray **SILTY SAND** with yellowish brown motlles toward bottom		2	1	SS	92	5-13-14-8 (27)	Boring Location Coordinates: N32°08'38.03" W81°12'24.98"
	(CL) Gray and red **SANDY CLAY** with yellowish brown mottles		4	2	SS	83	3-4-5-6 (9)	SS=Split Spoon sampler
	▼		6	3	SS	75	6-8-8-7 (16)	
	(CL) Light gray **SANDY CLAY**		8	4	SS	83	7-7-9-8 (16)	
-10			10	5	SS	83	8-9-8-5 (17)	
			12					
	(SW) Gray fine to medium **SAND**		14	6	SS	78	6-8-6 (14)	
			16					
			18					
-20	(CH) Dark gray **CLAY**		20	7	SS	100	0-0-0 (0)	Zero (0) blow counts=weight of hammer
			22					
			24	8	SS	100	0-0-0 (0)	
			26					
			28					
-30	(SW) Dark gray fine to medium **SAND**		30	9	SS	100	2-5-8 (13)	
			32					
			34	10	SS	100	8-11-17 (28)	
			36					
			38					
-40			40	11	SS	100	10-18-17 (35)	
	Bottom of borehole at 40.0 feet.							

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BORING NUMBER B15

CLIENT POND
PROJECT NAME Savannah Hilton/Head Int'l Airport-Cargo Facility Dev.
PROJECT NUMBER 21-00547-01
PROJECT LOCATION Savannah, Georgia
DATE STARTED 1/19/22 **COMPLETED** 1/19/22
GROUND ELEVATION 0 ft **HOLE SIZE** 3-in dia. x6 ft. depth
DRILLING CONTRACTOR Cal-Tech Testing, Inc.
GROUND WATER LEVELS:
DRILLING METHOD SPT
AT TIME OF DRILLING ---
LOGGED BY B.S. **CHECKED BY** I.M.
AT END OF DRILLING 5.00 ft / Elev -5.00 ft
NOTES Elev. refered to ground surface
AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA NUMBER	TYPE	RECOVERY (%) (RQD) %	BLOW COUNTS (N VALUE)	REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
	(SM) Light gray **SILTY SAND** with yellowish brown mottles		2	1	SS	79	2-2-3-2 (5)	Boring Location Coordinates; N32°08'33.54" W81°12'40.67"
	(SC) Gray **CLAYEY SAND** with yellowish brown mottles		4	2	SS	71	2-3-5-5 (8)	SS=Split Spoon sampler
			6	3	SS	50	2-3-3-2 (6)	
	Bottom of borehole at 6.0 feet.							

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BORING NUMBER B16

CLIENT POND
PROJECT NAME Savannah Hilton/Head Int'l Airport-Cargo Facility Dev.
PROJECT NUMBER 21-00547-01
PROJECT LOCATION Savannah, Georgia
DATE STARTED 1/19/22 **COMPLETED** 1/19/22
GROUND ELEVATION 0 ft **HOLE SIZE** 3-in dia. x6 ft. depth
DRILLING CONTRACTOR Cal-Tech Testing, Inc.
GROUND WATER LEVELS:
DRILLING METHOD SPT
AT TIME OF DRILLING ---
LOGGED BY B.S. **CHECKED BY** I.M.
AT END OF DRILLING 1.50 ft / Elev -1.50 ft
NOTES Elev. refered to ground surface
AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA: NUMBER	TYPE	RECOVERY (%) (RQD) %	BLOW COUNTS (N VALUE)	REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
	▼ (SP) Light gray **SAND** with yellowish brown mottles		2	1	SS	83	1-3-4-4 (7)	Boring Location Coordinates; N32°08'34.52" W81°12'38.43"
	(SC) Dark reddish gray **CLAYEY SAND**		4	2	SS	88	3-4-4-5 (8)	SS=Split Spoon sampler
			6	3	SS	58	4-4-4-4 (8)	
	Bottom of borehole at 6.0 feet.							

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BORING NUMBER B17

CLIENT POND
PROJECT NAME Savannah Hilton/Head Int'l Airport-Cargo Facility Dev.
PROJECT NUMBER 21-00547-01
PROJECT LOCATION Savannah, Georgia
DATE STARTED 1/19/22 **COMPLETED** 1/19/22
GROUND ELEVATION 0 ft **HOLE SIZE** 3-in dia. x6 ft. depth
DRILLING CONTRACTOR Cal-Tech Testing, Inc.
GROUND WATER LEVELS:
DRILLING METHOD SPT
AT TIME OF DRILLING ---
LOGGED BY B.S. **CHECKED BY** I.M.
AT END OF DRILLING 2.50 ft / Elev -2.50 ft
NOTES Elev. refered to ground surface
AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA: NUMBER	TYPE	RECOVERY (%) (RQD) %	BLOW COUNTS (N VALUE)	REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
	(SP-SM) Light gray **SAND** with silt and yellowish brown mottles		2	1	SS	67	5-4-6-7 (10)	Boring Location Coordinates; N32°08'33.42" W81°12'36.28"
				2	SS	71	4-4-4-5 (8)	SS=Split Spoon sampler
	(SC) Gray **CLAYEY SAND** with yellowish brown mottles		4	3	SS	71	5-5-5-5 (10)	SS-2B Fines content=31.6%
	Bottom of borehole at 6.0 feet.		6					

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BORING NUMBER B18

CLIENT POND
PROJECT NAME Savannah Hilton/Head Int'l Airport-Cargo Facility Dev.
PROJECT NUMBER 21-00547-01
PROJECT LOCATION Savannah, Georgia
DATE STARTED 1/19/22 **COMPLETED** 1/19/22
GROUND ELEVATION 0 ft **HOLE SIZE** 3-in dia. x6 ft. depth
DRILLING CONTRACTOR Cal-Tech Testing, Inc.
GROUND WATER LEVELS:
DRILLING METHOD SPT
AT TIME OF DRILLING ---
LOGGED BY B.S. **CHECKED BY** I.M.
AT END OF DRILLING 4.50 ft / Elev -4.50 ft
NOTES Elev. refered to ground surface
AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA: NUMBER	TYPE	RECOVERY (%) (RQD) %	BLOW COUNTS (N VALUE)	REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
	(SC) Gray and red **CLAYEY SAND**		2	1	SS	63	1-3-4-5 (7)	Boring Location Coordinates; N32°08'32.78" W81°12'37.33"
			4	2	SS	88	6-8-14-17 (22)	SS=Split Spoon sampler
	(SP) Gray **SAND**		6	3	SS	46	14-17-15-16 (32)	
	Bottom of borehole at 6.0 feet.							

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BORING NUMBER B20

CLIENT POND
PROJECT NAME Savannah Hilton/Head Int'l Airport-Cargo Facility Dev.
PROJECT NUMBER 21-00547-01
PROJECT LOCATION Savannah, Georgia
DATE STARTED 1/19/22 **COMPLETED** 1/19/22
GROUND ELEVATION 0 ft **HOLE SIZE** 3-in dia. x6 ft. depth
DRILLING CONTRACTOR Cal-Tech Testing, Inc.
GROUND WATER LEVELS:
DRILLING METHOD SPT
AT TIME OF DRILLING ---
LOGGED BY B.S. **CHECKED BY** I.M.
AT END OF DRILLING 4.50 ft / Elev -4.50 ft
NOTES Elev. refered to ground surface
AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA NUMBER	TYPE	RECOVERY (%) (RQD) %	BLOW COUNTS (N VALUE)	REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
	(SC) Gray and red **CLAYEY SAND**		2	1	SS	83	2-5-9-10 (14)	Boring Location Coordinates; N32°08'32.82" W81°12'33.17"
	▼		4	2	SS	92	10-12-12-14 (24)	SS=Split Spoon sampler
			6	3	SS	79	16-18-16-20 (34)	
	Bottom of borehole at 6.0 feet.							

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BORING NUMBER B21

CLIENT POND
PROJECT NAME Savannah Hilton/Head Int'l Airport-Cargo Facility Dev.
PROJECT NUMBER 21-00547-01
PROJECT LOCATION Savannah, Georgia
DATE STARTED 1/19/22 **COMPLETED** 1/19/22
GROUND ELEVATION 0 ft **HOLE SIZE** 3-in dia. x6 ft. depth
DRILLING CONTRACTOR Cal-Tech Testing, Inc.
GROUND WATER LEVELS:
DRILLING METHOD SPT
AT TIME OF DRILLING ---
LOGGED BY B.S. **CHECKED BY** I.M.
AT END OF DRILLING 6.00 ft / Elev -6.00 ft
NOTES Elev. refered to ground surface
AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA NUMBER	TYPE	RECOVERY (%) (RQD) %	BLOW COUNTS (N VALUE)	REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
	(SM) Light gray **SILTY SAND** with yellowish brown mottles		2	1	SS	67	7-5-6-4 (11)	Boring Location Coordinates; N32°08'34.65" W81°12'34.96"
	(SC) Dark gray **CLAYEY SAND**		4	2	SS	83	5-4-4-5 (8)	SS=Split Spoon sampler
	▼		6	3	SS	71	5-5-4-4 (9)	
	Bottom of borehole at 6.0 feet.							

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BORING NUMBER B22

CLIENT POND
PROJECT NAME Savannah Hilton/Head Int'l Airport-Cargo Facility Dev.
PROJECT NUMBER 21-00547-01
PROJECT LOCATION Savannah, Georgia
DATE STARTED 1/19/22 **COMPLETED** 1/19/22
GROUND ELEVATION 0 ft **HOLE SIZE** 3-in dia. x6 ft. depth
DRILLING CONTRACTOR Cal-Tech Testing, Inc.
GROUND WATER LEVELS:
DRILLING METHOD SPT
AT TIME OF DRILLING ---
LOGGED BY B.S. **CHECKED BY** I.M.
AT END OF DRILLING --- Not encountered
NOTES Elev. refered to ground surface
AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA: NUMBER	TYPE	RECOVERY (%) (RQD) %	BLOW COUNTS (N VALUE)	REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
	(SM) Light gray **SILTY SAND** with yellowish brown mottles		2	1	SS	75	2-3-4-4 (7)	Boring Location Coordinates; N32°08'34.41" W81°12'31.20"
	(SC) Greenish gray **CLAYEY SAND**		4	2	SS	83	3-5-6-9 (11)	SS=Split Spoon sampler
	(SM) Gray **SILTY SAND** with yellowish brown mottles		6	3	SS	75	10-12-13-18 (25)	
	Bottom of borehole at 6.0 feet.							

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BORING NUMBER B23

CLIENT POND
PROJECT NAME Savannah Hilton/Head Int'l Airport-Cargo Facility Dev.
PROJECT NUMBER 21-00547-01
PROJECT LOCATION Savannah, Georgia
DATE STARTED 1/19/22 **COMPLETED** 1/19/22
GROUND ELEVATION 0 ft **HOLE SIZE** 3-in dia. x6 ft. depth
DRILLING CONTRACTOR Cal-Tech Testing, Inc.
GROUND WATER LEVELS:
DRILLING METHOD SPT
AT TIME OF DRILLING ---
LOGGED BY B.S. **CHECKED BY** I.M.
AT END OF DRILLING 6.00 ft / Elev -6.00 ft
NOTES Elev. refered to ground surface
AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA: NUMBER	TYPE	RECOVERY (%) (RQD) %	BLOW COUNTS (N VALUE)	REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
	(SM) Light gray **SAND** with yellowish brown mottles		2	1	SS	79	1-4-5-7 (9)	Boring Location Coordinates; N32°08'36.24" W81°12'28.09"
	(SC) Gray **CLAYEY SAND** with yellowish brown mottles		4	2	SS	83	3-3-4-5 (7)	SS=Split Spoon sampler
			6	3	SS	79	4-6-8-8 (14)	
	Bottom of borehole at 6.0 feet.							

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BORING NUMBER B24

CLIENT POND
PROJECT NAME Savannah Hilton/Head Int'l Airport-Cargo Facility Dev.
PROJECT NUMBER 21-00547-01
PROJECT LOCATION Savannah, Georgia
DATE STARTED 1/19/22 **COMPLETED** 1/19/22
GROUND ELEVATION 0 ft **HOLE SIZE** 3-in dia. x6 ft. depth
DRILLING CONTRACTOR Cal-Tech Testing, Inc.
GROUND WATER LEVELS:
DRILLING METHOD SPT
AT TIME OF DRILLING ---
LOGGED BY B.S. **CHECKED BY** I.M.
AT END OF DRILLING 5.00 ft / Elev -5.00 ft
NOTES Elev. refered to ground surface
AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA: NUMBER	TYPE	RECOVERY (%) (RQD) %	BLOW COUNTS (N VALUE)	REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
	(SM) Light gray **SAND** with yellowish brown mottles		2	1	SS	71	1-2-3-4 (5)	Boring Location Coordinates; N32°08'35.42" W81°12'26.73"
	(SC) Gray **CLAYEY SAND** with yellowish brown mottles		4	2	SS	63	2-3-3-4 (6)	SS=Split Spoon sampler
	▼		6	3	SS	63	5-7-7-8 (14)	SS-3 Fines content=39.9%
	Bottom of borehole at 6.0 feet.							

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BORING NUMBER B25

CLIENT POND
PROJECT NAME Savannah Hilton/Head Int'l Airport-Cargo Facility Dev.
PROJECT NUMBER 21-00547-01
PROJECT LOCATION Savannah, Georgia
DATE STARTED 1/19/22 **COMPLETED** 1/19/22
GROUND ELEVATION 0 ft **HOLE SIZE** 3-in dia. x6 ft. depth
DRILLING CONTRACTOR Cal-Tech Testing, Inc.
GROUND WATER LEVELS:
DRILLING METHOD SPT
AT TIME OF DRILLING ---
LOGGED BY B.S. **CHECKED BY** I.M.
AT END OF DRILLING --- Not encountered
NOTES Elev. refered to ground surface
AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA NUMBER	TYPE	RECOVERY (%) (RQD) %	BLOW COUNTS (N VALUE)	REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
	(SM) Light gray **SAND** with yellowish brown mottles (SC) Gray **CLAYEY SAND** with yellowish brown mottles		2	1	SS	71	1-1-1-2 (2)	Boring Location Coordinates; N32°08'32.76" W81°12'26.95"
			4	2	SS	71	3-3-4-3 (7)	SS=Split Spoon sampler
			6	3	SS	79	3-4-4-4 (8)	
	Bottom of borehole at 6.0 feet.							

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BORING NUMBER B26

CLIENT POND
PROJECT NAME Savannah Hilton/Head Int'l Airport-Cargo Facility Dev.
PROJECT NUMBER 21-00547-01
PROJECT LOCATION Savannah, Georgia
DATE STARTED 1/19/22 **COMPLETED** 1/19/22
GROUND ELEVATION 0 ft **HOLE SIZE** 3-in dia. x6 ft. depth
DRILLING CONTRACTOR Cal-Tech Testing, Inc.
GROUND WATER LEVELS:
DRILLING METHOD SPT
AT TIME OF DRILLING ---
LOGGED BY B.S. **CHECKED BY** I.M.
AT END OF DRILLING --- Not encountered
NOTES Elev. refered to ground surface
AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA: NUMBER	TYPE	RECOVERY (%) (RQD) %	BLOW COUNTS (N VALUE)	REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
	(SM) Light gray **SAND** with yellowish brown mottles		2	1	SS	79	2-4-6-7 (10)	Boring Location Coordinates; N32°08'36.24" W81°12'24.08"
				2	SS	83	3-3-4-5 (7)	SS=Split Spoon sampler
	(SC) Gray **CLAYEY SAND** with yellowish brown mottles		4	3	SS	71	5-6-7-7 (13)	
	Bottom of borehole at 6.0 feet.		6					

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BORING NUMBER B27

CLIENT POND
PROJECT NAME Savannah Hilton/Head Int'l Airport-Cargo Facility Dev.
PROJECT NUMBER 21-00547-01
PROJECT LOCATION Savannah, Georgia
DATE STARTED 1/19/22 **COMPLETED** 1/19/22
GROUND ELEVATION 0 ft **HOLE SIZE** 3-in dia. x6 ft. depth
DRILLING CONTRACTOR Cal-Tech Testing, Inc.
GROUND WATER LEVELS:
DRILLING METHOD SPT
AT TIME OF DRILLING ---
LOGGED BY B.S. **CHECKED BY** I.M.
AT END OF DRILLING 2.00 ft / Elev -2.00 ft
NOTES Elev. refered to ground surface
AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA: NUMBER	TYPE	RECOVERY (%) (RQD) %	BLOW COUNTS (N VALUE)	REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
	(SM) Light gray **SILTY SAND** with yellowish brown mottles		2	1	SS	79	1-3-3-5 (6)	Boring Location Coordinates; N32°08'35.08" W81°12'22.24"
	(SC) Gray **CLAYEY SAND** with yellowish brown mottles		4	2	SS	75	3-3-3-3 (6)	SS=Split Spoon sampler
			6	3	SS	63	4-4-5-6 (9)	
	Bottom of borehole at 6.0 feet.							

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3309 SR 247
Lake City, FL 32024
Telephone: 386-755-3633
Fax: 386-755-3633

BORING NUMBER B28

CLIENT POND
PROJECT NAME Savannah Hilton/Head Int'l Airport-Cargo Facility Dev.
PROJECT NUMBER 21-00547-01
PROJECT LOCATION Savannah, Georgia
DATE STARTED 1/19/22 **COMPLETED** 1/19/22
GROUND ELEVATION 0 ft **HOLE SIZE** 3-in dia. x6 ft. depth
DRILLING CONTRACTOR Cal-Tech Testing, Inc.
GROUND WATER LEVELS:
DRILLING METHOD SPT
AT TIME OF DRILLING ---
LOGGED BY B.S. **CHECKED BY** I.M.
AT END OF DRILLING 2.00 ft / Elev -2.00 ft
NOTES Elev. refered to ground surface
AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA NUMBER	TYPE	RECOVERY (%) (RQD) %	BLOW COUNTS (N VALUE)	REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
	(SC) Gray **CLAYEY SAND** with yellowish brown mottles		2	1	SS	79	1-2-3-2 (5)	Boring Location Coordinates; N32°08'35.97" W81°12'22.44"
			4	2	SS	75	3-4-4-4 (8)	SS=Split Spoon sampler
			6	3	SS	79	4-4-4-4 (8)	
	Bottom of borehole at 6.0 feet.							

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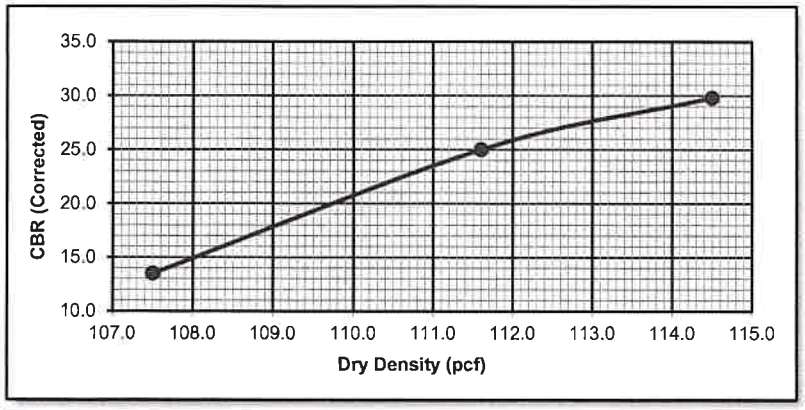
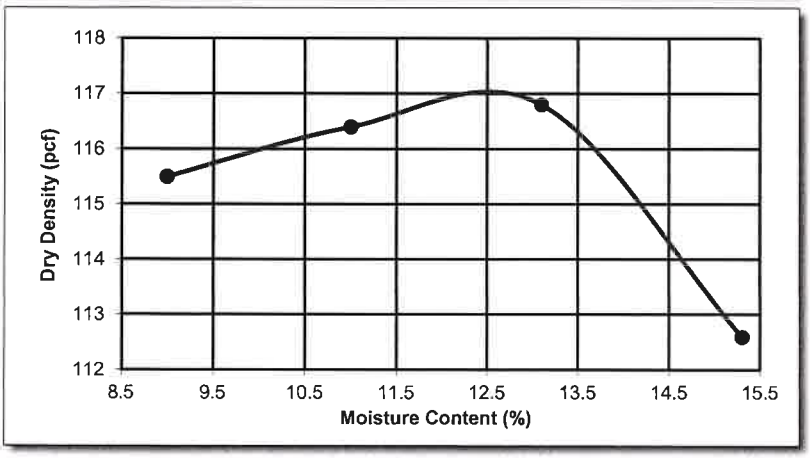
REPORT OF LABORATORY CALIFORNIA BEARING RATIO & MODIFIED PROCTOR TESTS (ASTM D-1883, ASTM D-1557)

Client:	POND 3500 Parkway Lane, Suite 500 Peachtree Corners, GA 30092	**File No:**	21-00547-01
Project Name:	Savannah Hilton Head Int'l Airport - Cargo Facility Development	**Report Date:**	02/02/2022
Project Location:	Savannah, GA	**Lab No:**	23333
Contractor:	POND		





Sample No.:	1
CBR @ 100% Compaction:	29.8
CBR @ 98% Compaction:	===
Dry Density (pcf):	117
Optimum Moisture (%):	12.5
Carbonates (%):	Not Recorded
Pass 3 1/2" Sieve (%):	100
Pass 3/4" Sieve (%):	100
Pass No. 4 Sieve (%):	100
Pass No. 10 Sieve (%):	===
Pass No. 40 Sieve (%):	===
Pass No. 200 Sieve (%):	13
Liquid Limit:	NA
Plastic Limit:	NP
Plasticity Index:	NP

CBR SPECIMENS COMPACTION DATA				
Number of Blows:	10	25	64	===
Surcharge (lb):	10	10	10	===
Initial Moisture Content (%):	13.3	13.3	13.6	===
Initial Dry Density (pcf):	107.5	111.6	114.5	===
Final Moisture Content (%):	15.8	14.5	13.9	===
Final Dry Density (pcf):	105.2	110.4	114.2	===
$CBR_{0.1"}$ (uncorrected):	6.1	3.7	8.2	===
$CBR_{0.1"}$ (corrected):	13.5	25.0	29.8	===
Curing Condition:	Submerged	Submerged	Submerged	===
Swell (%):	Not Recorded	Not Recorded	Not Recorded	===

The test results presented in this report are specific only to the samples tested at the time of testing. The tests were performed in accordance with generally accepted methods and standards. Since material conditions can vary between test locations and change with time, sound judgment should be exercised with regard to the use and interpretation of the data. This report shall not be reproduced without prior approval of the author.

Sample Description:	Light Tan Silty Sand (SM)		
Sample Location:	N 32° 8' 34.79" W 81° 12' 39.82"		
Proposed Use:	Subgrade		
Sampled By:	B. Stalvey	**Date:**	01/20/2022
Delivered to Lab:	B. Stalvey	**Date:**	01/20/2022
Tested By:	A. Gaylard	**Date:**	02/02/2022
cc:	1cc: File		

Date: 2/2/22

Licensed, Georgia No.: 43588

GEORGIA REGISTERED No. 43588 PROFESSIONAL ENGINEER ANE E. MARCANO

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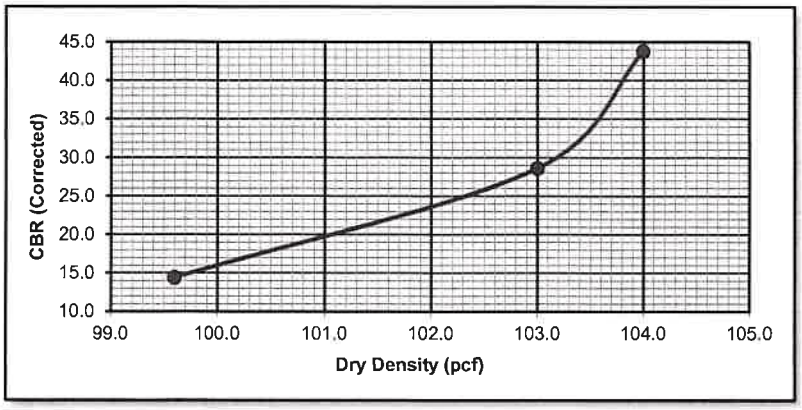
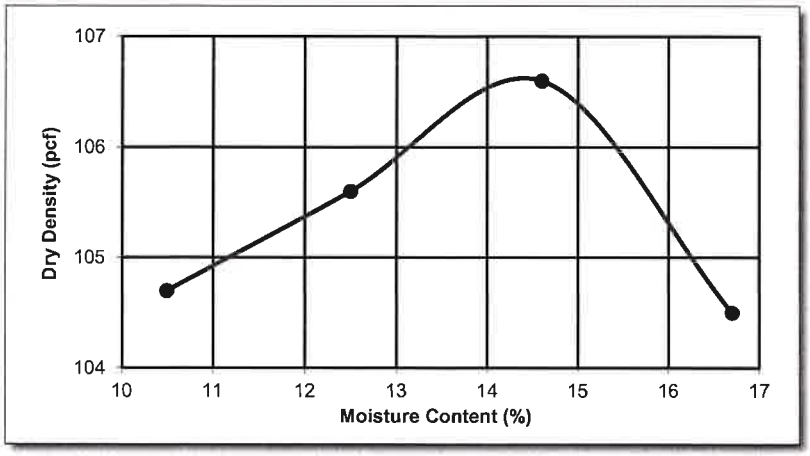
REPORT OF LABORATORY CALIFORNIA BEARING RATIO & MODIFIED PROCTOR TESTS (ASTM D-1883, ASTM D-1557)

Client:	POND 3500 Parkway Lane, Suite 500 Peachtree Corners, GA 30092	**File No:**	21-00547-01
Project Name:	Savannah Hilton Head Int'l Airport - Cargo Facility Development	**Report Date:**	02/02/2022
Project Location:	Savannah, GA	**Lab No:**	23334
Contractor:	POND		





Sample No.:	2
CBR @ 100% Compaction:	43.8
CBR @ 98% Compaction:	===
Dry Density (pcf):	106.6
Optimum Moisture (%):	14.5
Carbonates (%):	Not Recorded
Pass 3 1/2" Sieve (%):	100
Pass 3/4" Sieve (%):	100
Pass No. 4 Sieve (%):	100
Pass No. 10 Sieve (%):	===
Pass No. 40 Sieve (%):	===
Pass No. 200 Sieve (%):	7.7
Liquid Limit:	NA
Plastic Limit:	NP
Plasticity Index:	NP

CBR SPECIMENS COMPACTION DATA				
Number of Blows:	10	25	64	===
Surcharge (lb):	10	10	10	===
Initial Moisture Content (%):	15.3	14.9	15.2	===
Initial Dry Density (pcf):	99.6	103.0	104.0	===
Final Moisture Content (%):	19.0	17.2	16.2	===
Final Dry Density (pcf):	105.2	110.4	114.2	===
$CBR_{0.1"}$ (uncorrected):	7.2	14.6	16.3	===
$CBR_{0.1"}$ (corrected):	14.4	28.6	43.8	===
Curing Condition:	Submerged	Submerged	Submerged	===
Swell (%):	Not Recorded	Not Recorded	Not Recorded	===

The test results presented in this report are specific only to the samples tested at the time of testing. The tests were performed in accordance with generally accepted methods and standards. Since material conditions can vary between test locations and change with time, sound judgment should be exercised with regard to the use and interpretation of the data. This report shall not be reproduced without prior approval of the author.

Sample Description:	Light Tan Sand with Silt (SP-SM)		
Sample Location:	N 32° 8' 34.13" W 81° 12' 37.27"		
Proposed Use:	Subgrade		
Sampled By:	B. Stalvey	**Date:**	01/20/2022
Delivered to Lab:	B. Stalvey	**Date:**	01/20/2022
Tested By:	A. Gaylard	**Date:**	02/02/2022
cc:	1cc: File		

Date: 2/2/22

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GEORGIA REGISTERED No. 43588 PROFESSIONAL ENGINEER IVAN E. MARCANO

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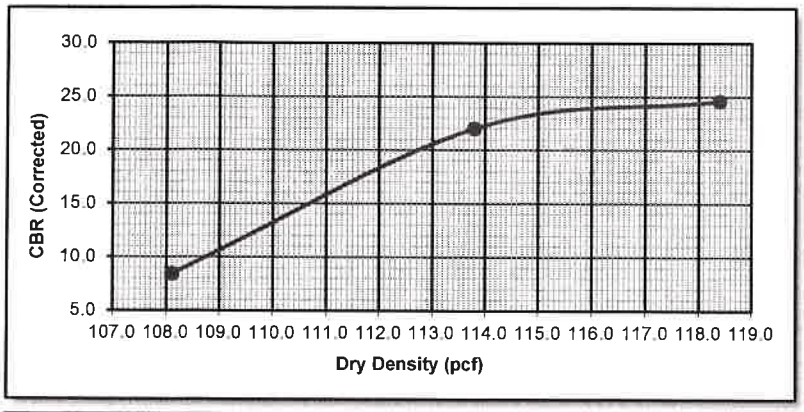
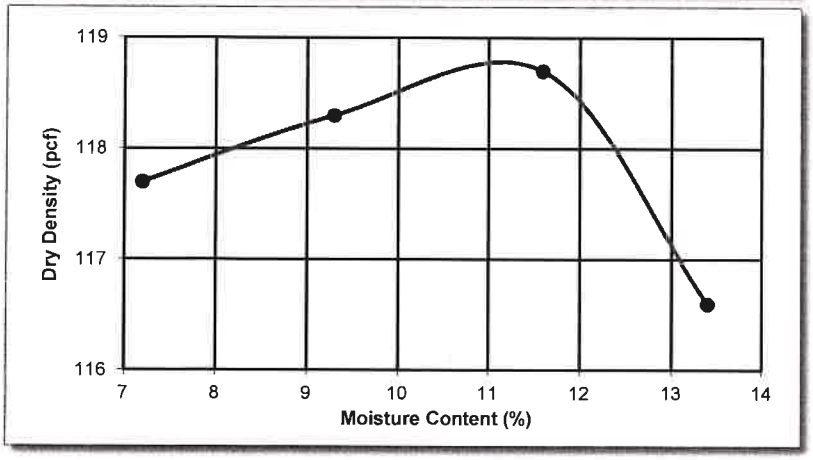
REPORT OF LABORATORY CALIFORNIA BEARING RATIO & MODIFIED PROCTOR TESTS (ASTM D-1883, ASTM D-1557)

Client:	POND 3500 Parkway Lane, Suite 500 Peachtree Corners, GA 30092	**File No:**	21-00547-01
Project Name:	Savannah Hilton Head Int'l Airport - Cargo Facility Development	**Report Date:**	02/09/2022
Project Location:	Savannah, GA	**Lab No:**	23335
Contractor:	POND		





Sample No.:	3
CBR @ 100% Compaction:	24.6
CBR @ 98% Compaction:	24.0
Dry Density (pcf):	118.8
Optimum Moisture (%):	11.2
Carbonates (%):	Not Recorded
Pass 3 1/2" Sieve (%):	100
Pass 3/4" Sieve (%):	100
Pass No. 4 Sieve (%):	100
Pass No. 10 Sieve (%):	===
Pass No. 40 Sieve (%):	===
Pass No. 200 Sieve (%):	17
Liquid Limit:	NA
Plastic Limit:	NP
Plasticity Index:	NP

CBR SPECIMENS COMPACTION DATA				
Number of Blows:	10	25	64	===
Surcharge (lb):	10	10	10	===
Initial Moisture Content (%):	12.7	12.6	12.5	===
Initial Dry Density (pcf):	108.1	113.8	118.4	===
Final Moisture Content (%):	15.5	14.4	13.4	===
Final Dry Density (pcf):	105.5	112.0	117.5	===
$CBR_{0.1"}$ (uncorrected):	5.4	9.0	7.3	===
$CBR_{0.1"}$ (corrected):	8.4	22.0	24.6	===
Curing Condition:	Submerged	Submerged	Submerged	===
Swell (%):	Not Recorded	Not Recorded	Not Recorded	===

The test results presented in this report are specific only to the samples tested at the time of testing. The tests were performed in accordance with generally accepted methods and standards. Since material conditions can vary between test locations and change with time, sound judgment should be exercised with regard to the use and interpretation of the data. This report shall not be reproduced without prior approval of the author.

Sample Description:	Light Tan Silty Sand (SM)		
Sample Location:	N 32° 8' 31.87" W 81° 12' 37.58"		
Proposed Use:	Subgrade		
Sampled By:	B. Stalvey	**Date:**	01/20/2022
Delivered to Lab:	B. Stalvey	**Date:**	01/20/2022
Tested By:	A. Gaylard	**Date:**	02/09/2022
cc:	1cc: File		

GEORGIA REGISTERED No. 43588 PROFESSIONAL ENGINEER DUANE E. MARCANO

2/22

Date:

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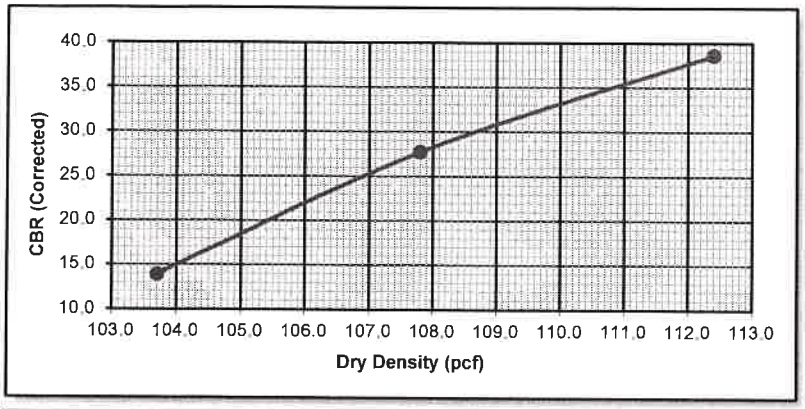
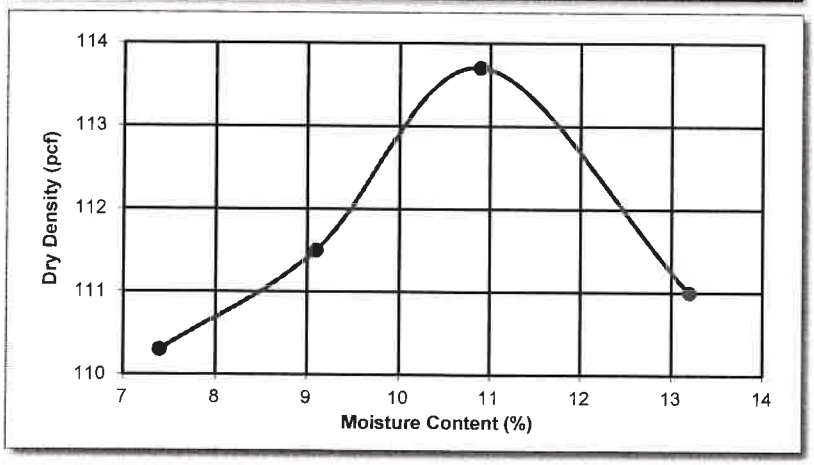
REPORT OF LABORATORY CALIFORNIA BEARING RATIO & MODIFIED PROCTOR TESTS (ASTM D-1883, ASTM D-1557)

Client:	POND 3500 Parkway Lane, Suite 500 Peachtree Corners, GA 30092	**File No:**	21-00547-01
Project Name:	Savannah Hilton Head Int'l Airport - Cargo Facility Development	**Report Date:**	02/10/2022
Project Location:	Savannah, GA	**Lab No:**	23336
Contractor:	POND		





Sample No.:	4
CBR @ 100% Compaction:	38.6
CBR @ 98% Compaction:	36.0
Dry Density (pcf):	113.7
Optimum Moisture (%):	10.9
Carbonates (%):	Not Recorded
Pass 3 1/2" Sieve (%):	100
Pass 3/4" Sieve (%):	100
Pass No. 4 Sieve (%):	100
Pass No. 10 Sieve (%):	===
Pass No. 40 Sieve (%):	===
Pass No. 200 Sieve (%):	14
Liquid Limit:	NA
Plastic Limit:	NP
Plasticity Index:	NP

CBR SPECIMENS COMPACTION DATA				
Number of Blows:	10	25	64	===
Surcharge (lb):	10	10	10	===
Initial Moisture Content (%):	12.3	12.2	11.9	===
Initial Dry Density (pcf):	103.7	107.8	112.4	===
Final Moisture Content (%):	16.3	14.3	12.6	===
Final Dry Density (pcf):	100.1	105.9	111.7	===
$CBR_{0.1"}$ (uncorrected):	8.6	14.8	10.0	===
$CBR_{0.1"}$ (corrected):	13.9	27.7	38.6	===
Curing Condition:	Submerged	Submerged	Submerged	===
Swell (%):	Not Recorded	Not Recorded	Not Recorded	===

Sample Description:	Light Gray Silty Sand (SM)		
Sample Location:	N 32° 8' 34.81" W 81° 12' 32.16"		
Proposed Use:	Subgrade		
Sampled By:	B. Stalvey	**Date:**	01/20/2022
Delivered to Lab:	B. Stalvey	**Date:**	01/20/2022
Tested By:	A. Gaylard	**Date:**	02/09/2022
cc:	1cc: File		

2/18/22

GEORGIA REGISTERED No. 43588 PROFESSIONAL ENGINEER WAYNE E. MARCANO

Date:

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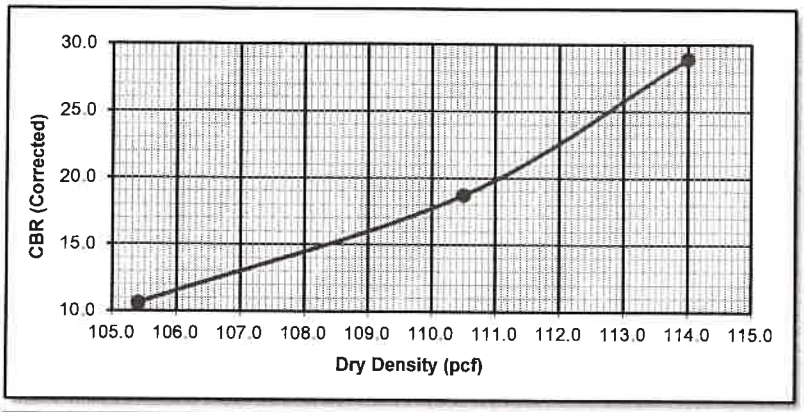
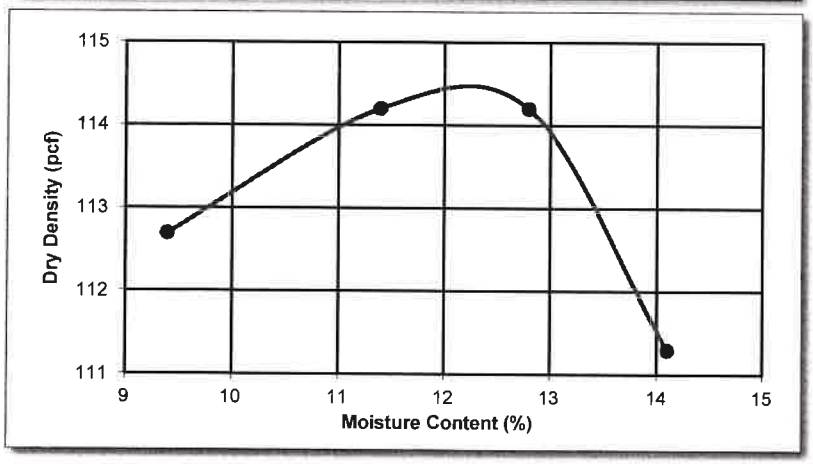
REPORT OF LABORATORY CALIFORNIA BEARING RATIO & MODIFIED PROCTOR TESTS (ASTM D-1883, ASTM D-1557)

Client: POND 3500 Parkway Lane, Suite 500 Peachtree Corners, GA 30092
Project Name: Savannah Hilton Head Int'l Airport - Cargo Facility Development
Project Location: Savannah, GA
Contractor: POND

File No: 21-00547-01
Report Date: 02/10/2022
Lab No: 23337





Sample No.:	5
CBR @ 100% Compaction:	28.9
CBR @ 98% Compaction:	23.0
Dry Density (pcf):	114.5
Optimum Moisture (%):	12.2
Carbonates (%):	Not Recorded
Pass 3 1/2" Sieve (%):	100
Pass 3/4" Sieve (%):	100
Pass No. 4 Sieve (%):	100
Pass No. 10 Sieve (%):	===
Pass No. 40 Sieve (%):	===
Pass No. 200 Sieve (%):	16
Liquid Limit:	NA
Plastic Limit:	NP
Plasticity Index:	NP

CBR SPECIMENS COMPACTION DATA				
Number of Blows:	10	25	64	===
Surcharge (lb):	10	10	10	===
Initial Moisture Content (%):	12.8	12.9	12.7	===
Initial Dry Density (pcf):	105.4	110.5	114.0	===
Final Moisture Content (%):	16.6	14.2	13.5	===
Final Dry Density (pcf):	102.0	109.3	113.2	===
$CBR_{0.1"}$ (uncorrected):	6.4	4.8	13.7	===
$CBR_{0.1"}$ (corrected):	10.6	18.7	28.9	===
Curing Condition:	Submerged	Submerged	Submerged	===
Swell (%):	Not Recorded	Not Recorded	Not Recorded	===

Sample Description: Light Gray Silty Sand (SM)
Sample Location: N 32° 8' 37.56" W 81° 12' 30.37"
Proposed Use: Subgrade
Sampled By: B. Stalvey **Date:** 01/20/2022
Delivered to Lab: B. Stalvey **Date:** 01/20/2022
Tested By: A. Gaylard **Date:** 02/09/2022
cc: 1cc: File

GEORGIA REGISTERED No. 43588 PROFESSIONAL ENGINEER EVAN E. MARCANO

Date: 2/10/22
Licensed, Georgia No.: 43588

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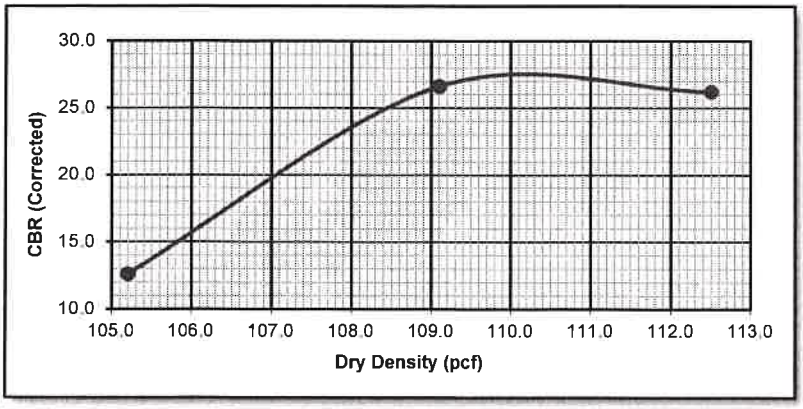
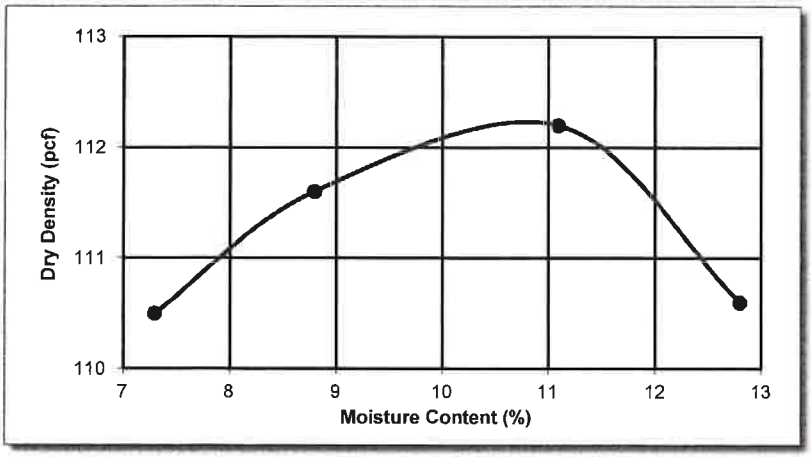
REPORT OF LABORATORY CALIFORNIA BEARING RATIO & MODIFIED PROCTOR TESTS (ASTM D-1883, ASTM D-1557)

Client:	POND 3500 Parkway Lane, Suite 500 Peachtree Corners, GA 30092	**File No:**	21-00547-01
Project Name:	Savannah Hilton Head Int'l Airport - Cargo Facility Development	**Report Date:**	02/14/2022
Project Location:	Savannah, GA	**Lab No:**	23338
Contractor:	POND		





Sample No.:	6
CBR @ 100% Compaction:	26.2
CBR @ 98% Compaction:	===
Dry Density (pcf):	112.2
Optimum Moisture (%):	10.9
Carbonates (%):	Not Recorded
Pass 3 1/2" Sieve (%):	100
Pass 3/4" Sieve (%):	100
Pass No. 4 Sieve (%):	100
Pass No. 10 Sieve (%):	===
Pass No. 40 Sieve (%):	===
Pass No. 200 Sieve (%):	12
Liquid Limit:	NA
Plastic Limit:	NP
Plasticity Index:	NP

CBR SPECIMENS COMPACTION DATA				
Number of Blows:	10	25	64	===
Surcharge (lb):	10	10	10	===
Initial Moisture Content (%):	12.6	12.0	11.9	===
Initial Dry Density (pcf):	105.2	109.1	112.5	===
Final Moisture Content (%):	15.6	14.2	12.6	===
Final Dry Density (pcf):	102.4	107.0	111.7	===
$CBR_{0.1"}$ (uncorrected):	7.4	13.0	7.4	===
$CBR_{0.1"}$ (corrected):	12.6	26.6	26.2	===
Curing Condition:	Submerged	Submerged	Submerged	===
Swell (%):	Not Recorded	Not Recorded	Not Recorded	===

Sample Description:	Light Brown Silty Sand (SM)		
Sample Location:	N 32° 8' 32.98" W 81° 12' 30.15"		
Proposed Use:	Subgrade		
Sampled By:	B. Stalvey	**Date:**	01/20/2022
Delivered to Lab:	B. Stalvey	**Date:**	01/20/2022
Tested By:	A. Gaylard	**Date:**	02/14/2022
cc:	1cc: File		

GEORGIA REGISTERED No. 43588 PROFESSIONAL ENGINEER DWANE E. MARCANO

Date:
Licensed, Georgia No.: 43588

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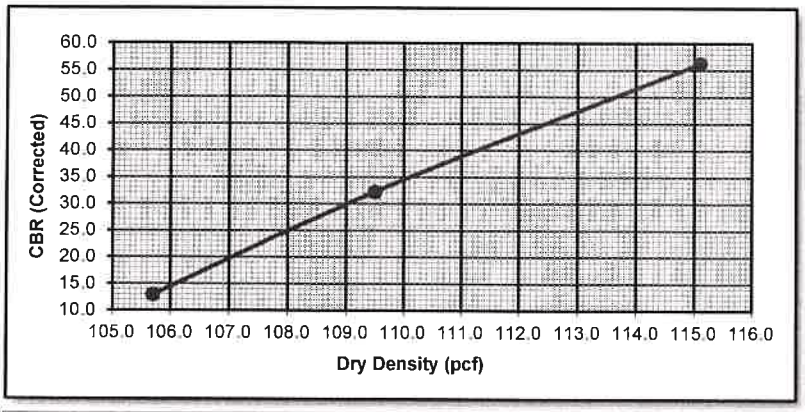
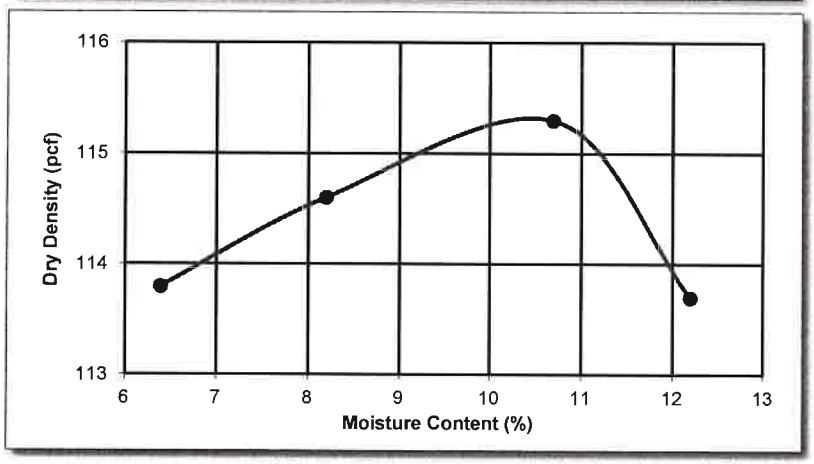
REPORT OF LABORATORY CALIFORNIA BEARING RATIO & MODIFIED PROCTOR TESTS (ASTM D-1883, ASTM D-1557)

Client: POND 3500 Parkway Lane, Suite 500 Peachtree Corners, GA 30092
Project Name: Savannah Hilton Head Int'l Airport - Cargo Facility Development
Project Location: Savannah, GA
Contractor: POND

File No: 21-00547-01
Report Date: 02/14/2022
Lab No: 23339





Sample No.:	7
CBR @ 100% Compaction:	56.2
CBR @ 98% Compaction:	47.0
Dry Density (pcf):	115.3
Optimum Moisture (%):	10.6
Carbonates (%):	Not Recorded
Pass 3 1/2" Sieve (%):	100
Pass 3/4" Sieve (%):	100
Pass No. 4 Sieve (%):	100
Pass No. 10 Sieve (%):	===
Pass No. 40 Sieve (%):	===
Pass No. 200 Sieve (%):	13
Liquid Limit:	NA
Plastic Limit:	NP
Plasticity Index:	NP

CBR SPECIMENS COMPACTION DATA				
Number of Blows:	10	25	64	===
Surcharge (lb):	10	10	10	===
Initial Moisture Content (%):	11.5	12.0	11.4	===
Initial Dry Density (pcf):	105.7	109.5	115.1	===
Final Moisture Content (%):	15.0	13.1	12.0	===
Final Dry Density (pcf):	102.4	108.4	114.5	===
$CBR_{0.1"}$ (uncorrected):	6.1	11.8	15.7	===
$CBR_{0.1"}$ (corrected):	12.9	32.2	56.2	===
Curing Condition:	Submerged	Submerged	Submerged	===
Swell (%):	Not Recorded	Not Recorded	Not Recorded	===

The test results presented in this report are specific only to the samples tested at the time of testing. The tests were performed in accordance with generally accepted methods and standards. Since material conditions can vary between test locations and change with time, sound judgment should be exercised with regard to the use and interpretation of the data. This report shall not be reproduced without prior approval of the author.

Sample Description: Light Tan Silty Sand (SM)
Sample Location: N 32° 8' 36.23" W 81° 12' 26.05"
Proposed Use: Subgrade
Sampled By: B. Stalvey **Date:** 01/20/2022
Delivered to Lab: B. Stalvey **Date:** 01/20/2022
Tested By: A. Gaylard **Date:** 02/14/2022
cc: 1cc: File

Date: 2/18/22
Licensed, Georgia No.: 43588

GEORGIA REGISTERED No. 43588 PROFESSIONAL ENGINEER IVAN E. MARCANO

Cal-Tech Testing, Inc.
3309 SR 247
Lake City, FL 32024
Telephone: 386-755-3633
Fax: 386-755-3633

BORING NUMBER B19a

CLIENT POND
PROJECT NAME Savannah Hilton/Head Int'l Airport-Cargo Facility Dev.
PROJECT NUMBER 21-00547-01
PROJECT LOCATION Savannah, Georgia
DATE STARTED 11/14/22 **COMPLETED** 11/14/22
GROUND ELEVATION 0 ft **HOLE SIZE** 3-in dia. x 40 ft. depth
DRILLING CONTRACTOR Cal-Tech Testing, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Rotary Mud Drilling/SPT
AT TIME OF DRILLING ---
LOGGED BY B.S. **CHECKED BY** I.M.
AT END OF DRILLING 9.00 ft / Elev -9.00 ft
NOTES Elev. refered to ground surface
AFTER DRILLING ---

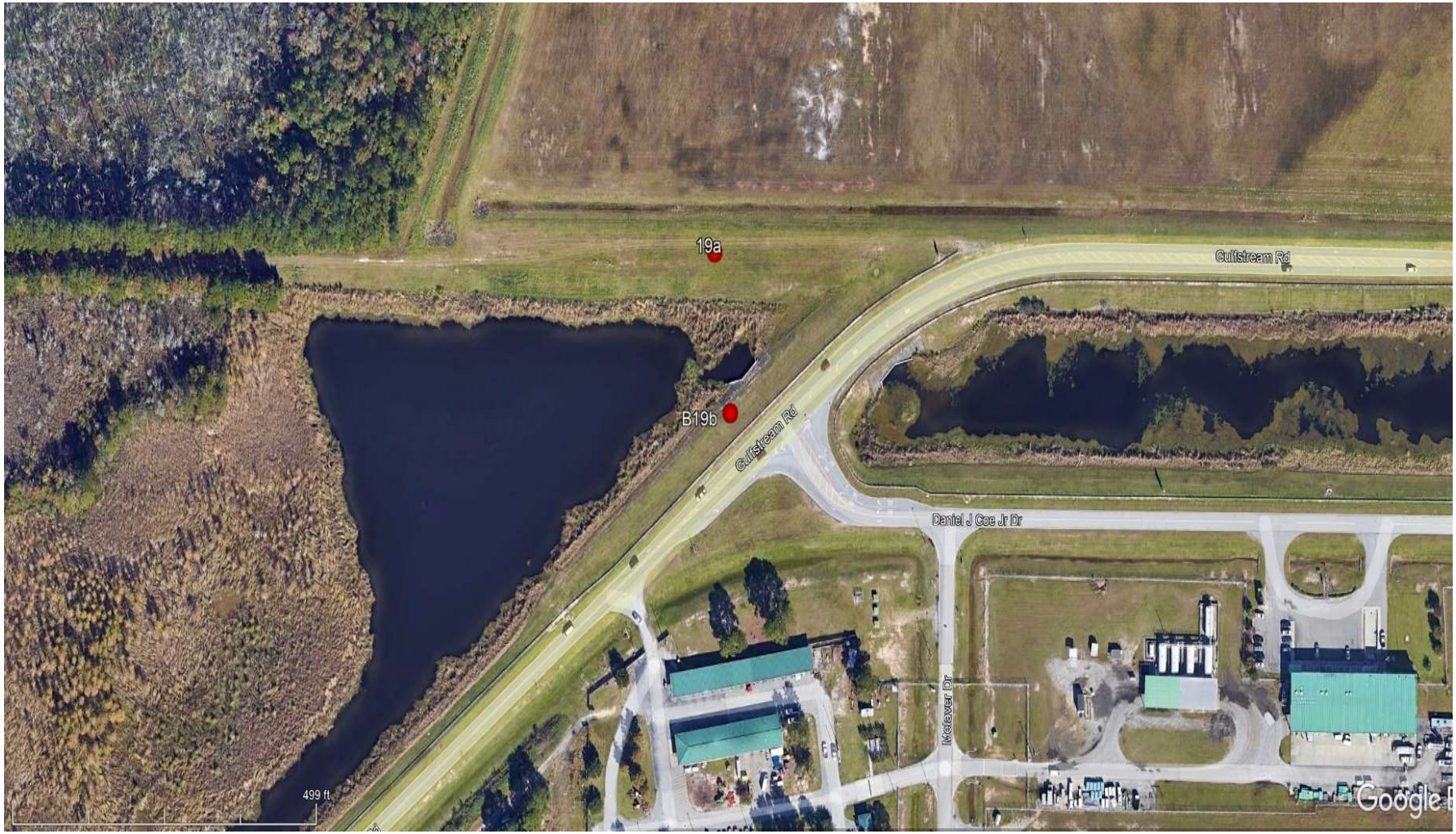
ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA NUMBER	TYPE	RECOVERY (%) (RQD) %	BLOW COUNTS (N VALUE)	REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
	(SC) Gray and yellowish brown **CLAYEY SAND**		2	1	SS	75	8-4-8-12 (12)	Boring Location Coordinates: N32°08'32.0" W81°12'37.7"
	(SM) Dark gray **SILTY SAND** with yellowish brown mottles		4	2	SS	83	9-10-9-6 (19)	SS=Split Spoon sampler
	Large root fragment and gray **CLAY**		6	3	SS	75	3-5-4-3 (9)	
	(SC) Gray **CLAYEY SAND**		8	4	SS	67	5-5-5-10 (10)	
-10			10	5	SS	75	8-10-8-8 (18)	
			12					
	(CL) Dark greenish gray **CLAY** with sand		14	6	SS	89	3-3-3 (6)	
			16					
			18					
-20	(SP) Gray **SAND**		20	7	SS	89	4-6-6 (12)	
			22					
			24	8	SS	78	4-7-6 (13)	
			26					
			28					
-30			30	9	SS	78	3-5-5 (10)	
			32					
			34	10	SS	89	4-5-7 (12)	
			36					
			38					
-40			40	11	SS	89	12-22-27 (49)	
	Bottom of borehole at 40.0 feet.							

Cal-Tech Testing, Inc.
3309 SR 247
Lake City, FL 32024
Telephone: 386-755-3633
Fax: 386-755-3633

BORING NUMBER B19b

CLIENT POND
PROJECT NAME Savannah Hilton/Head Int'l Airport-Cargo Facility Dev.
PROJECT NUMBER 21-00547-01
PROJECT LOCATION Savannah, Georgia
DATE STARTED 11/14/22 **COMPLETED** 11/14/22
GROUND ELEVATION 0 ft **HOLE SIZE** 3-in dia. x 45 ft. depth
DRILLING CONTRACTOR Cal-Tech Testing, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Rotary Mud Drilling/SPT
AT TIME OF DRILLING ---
LOGGED BY B.S. **CHECKED BY** I.M.
AT END OF DRILLING 9.00 ft / Elev -9.00 ft
NOTES Elev. refered to ground surface
AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA NUMBER	TYPE	RECOVERY (%) (RQD) %	BLOW COUNTS (N VALUE)	REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
	(SP-SM) White and yellowish brown **SAND** with silt		2	1	SS	83	2-5-6-7 (11)	Boring Location Coordinates: N32°08'30.0" W81°12'37.4"
			4	2	SS	83	7-7-7-7 (14)	SS=Split Spoon sampler
			6	3	SS	75	5-4-9-9 (13)	
	(SM) Gray and yellowish brown **SILTY SAND**							
	(SP-SM) Gray and yellowish brown **SAND** with silt		8	4	SS	67	5-9-9-7 (18)	
-10	▼		10	5	SS	75	4-5-5-4 (10)	
			12					
	(CH) Gray **CLAY**		14	6	SS	44	0-0-0 (0)	Zero (0) blow counts=Weight of Hammer
			16					
			18					
-20			20	7	SS	100	0-0-1 (1)	
	(SP) Gray **SAND**		22					
			24	8	SS	67	5-5-7 (12)	
			26					
			28					
-30			30	9	SS	0	1-1-2 (3)	No sample was recovered from 28.5 to 30 ft.
			32					
			34	10	SS	83	4-5-6 (11)	
			36					
			38					
-40			40	11	SS	78	11-15-20 (35)	
			42					
			44	12	SS	89	12-21-26 (47)	
	Bottom of borehole at 45.0 feet.							



CAL-TECH TESTING, INC.
P.O. BOX 1625

Lake City, Florida 32056-1625
Phone: (386) 755-3633
Fax: (386) 752-5456

SUPPLEMENTAL BORING LOCATION PLAN

Savannah Hilton Head Int'l Airport-Cargo Facility Development

Savannah, Georgia

FIRE PROTECTION LEGEND

FV ELECTRICAL ALARM BELL

HAZARD CATEGORY 1 PER FMDS 3-26
HC-1
0.10 GPM/SQ.FT. OVER 1500 SQ.FT.
MAXIMUM COVERAGE PER SPRINKLER: 225 SQ.FT.
MIN. K-FACTOR: 5.6
250 GPM HOSE ALLOWANCE
DURATION: 60 MINUTES

HAZARD CATEGORY 2 PER FMDS 3-26
HC-2
0.20 GPM/SQ.FT. OVER 2500 SQ.FT.
MAXIMUM COVERAGE PER SPRINKLER: 130 SQ.FT.
MIN. K-FACTOR: 5.6
250 GPM HOSE ALLOWANCE
DURATION: 60 MINUTES

HAZARD CATEGORY 3 PER FMDS 3-26
HC-3
0.30 GPM/SQ.FT. OVER 2500 SQ.FT.
MAXIMUM COVERAGE PER SPRINKLER: 100 SQ.FT.
MIN. K-FACTOR: 11.2
500 GPM HOSE ALLOWANCE
DURATION: 60 MINUTES

FLOW TEST RESULTS

STATIC PRESSURE:	72-PSI
RESIDUAL PRESSURE:	70-PSI
FLOW:	2,353-GPM
FLOW AT 20-PSI:	13,668-GPM

THE FIRE FLOW TEST WAS CONDUCTED BY D. BRACE, PE, WITNESSED BY RAWLS WITH CITY OF SAVANNAH, ON NOVEMBER 17, 2021. A TWO-HYDRANT TEST WAS CONDUCTED UTILIZING HYDRANTS SOUTH OF THE PROPOSED SITE, UTILIZING HYDRANT #00078 FOR GAUGING WHILE FLOWING THE HYDRANT #00068.

GENERAL NOTES

1. DESIGN AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE GEORGIA STATE MINIMUM STANDARD BUILDING CODE WITH 2020 REVISIONS, GEORGIA STATE MINIMUM STANDARD FIRE CODE 2018 EDITION, FM GLOBAL DATA SHEET FMDS 2-0 "INSTALLATION GUIDELINES FOR AUTOMATIC SPRINKLERS" OCTOBER 2021, FM GLOBAL DATA SHEET FMDS 2-81 "FIRE PROTECTION SYSTEM INSPECTION, TESTING AND MAINTENANCE" OCTOBER 2021, FM GLOBAL DATA SHEET FMDS 3-0 "HYDRAULICS OF FIRE PROTECTION SYSTEMS" MARCH 2010, FM GLOBAL DATA SHEET 3-10 "INSTALLATION AND MAINTENANCE OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES" JANUARY 2022, AND FM GLOBAL DATA SHEET 3-26 "FIRE PROTECTION FOR NONSTORAGE OCCUPANCIES" OCTOBER 2021.2.
2. THE INTENT AND EXTENT OF THE FIRE PROTECTION SYSTEM DESIGN IS DIAGRAMMATIC ONLY. IT IS NOT INTENDED TO SHOW EVERY PIPE, FITTING, DEVICE, APPLIANCE, COMPONENT, ETC.
3. CONTRACTOR SHALL REVIEW THE PROJECT DOCUMENTS AND SPECIFICATIONS TO BECOME FAMILIAR WITH THE SCOPE OF WORK. NOTIFY OWNERS TECHNICAL REPRESENTATIVE WITH ANY DISCREPANCIES OUTSIDE THIS DESIGN INTENT. ANY CHANGE ORDER REQUEST AS A RESULT OF COORDINATION BETWEEN TRADES SHALL BE DENIED.
4. ADHERE TO AND OBTAIN ALL PERMITS, LICENSES, AND ALL STATE AND LOCAL GOVERNMENT REQUIREMENTS.
5. DO NOT SCALE PLANS FOR THE PURPOSE OF ESTABLISHING DIMENSIONS. FIELD DIMENSIONS GOVERN.
6. FIRE STOP ALL PENETRATIONS OF SMOKE/FIRE PARTITIONS. FIRE STOPPING SHALL BE OF UL LISTED ASSEMBLY.

FIRE SUPPRESSION NOTES

1. CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS WITH HYDRAULIC CALCULATIONS, MATERIAL SPECIFICATION BROCHURE, AND A COPY OF THEIR WATER SUPPLY RESULTS TO OWNER'S TECHNICAL REPRESENTATIVE AND ATLANTA OPERATIONS OFFICE OF FM GLOBAL FOR REVIEW PRIOR TO COMMENCING FABRICATION AND INSTALLATION. SPRINKLER SHOP DRAWINGS, CALCULATIONS, AND MATERIAL DATA SHALL BE IN ACCORDANCE WITH FM GLOBAL DATA SHEETS.
2. CONTRACTOR SHALL RECEIVE FULL CITY FIRE MARSHALL APPROVAL BEFORE BEGINNING ANY INSTALLATION. APPROVED, "RED STAMPED" SHOP DRAWINGS MUST BE LOCATED ON SITE.
3. FIRE SPRINKLER CONTRACTOR SHALL INSTALL SYSTEM PIPING AND COMPONENTS IN A WORKMANSHIP LIKE MANNER. CHANGES IN INSTALLATION AS A RESULT OF POOR CRAFTSMANSHIP SHALL BE AS DIRECTED BY CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE AND SHALL BE AT NO ADDITIONAL COST TO THE OWNER.
4. ANY ADDITIONAL OFFSETS OR FITTINGS REQUIRED FOR PROPER INSTALLATION, COORDINATION WITH OTHER TRADES, AND/OR TO MAINTAIN PROPER CLEARANCES SHALL BE PROVIDED FOR A COMPLETE AND WORKING SYSTEM.
5. NOT ALL PIPING, VALVES, AND APPURTENANCES ARE SHOWN ON THE PLANS. REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION.
6. REFER TO WET-PIPE SPRINKLER SYSTEM SPECIFICATIONS 211313, 210553, 210529, 210518, 210517, 210523 FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
7. UPON THE COMPLETION OF THE FIRE SPRINKLER SYSTEMS INSTALLATION THE SYSTEMS SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH FMDS 2-81.
8. HANGER MATERIAL, SPACING, AND METHOD OF ATTACHMENT SHALL BE IN ACCORDANCE WITH FMDS 2-0 AND MANUFACTURER'S REQUIREMENTS.
9. MAINTAIN A MINIMUM OF 3' CLEARANCE BELOW SPRINKLER DEFLECTOR(S) AND ANY PERMANENT OR TEMPORARY OBSTRUCTION(S) PER FMDS 2-0.
10. SPRINKLER PROTECTION IS NOT REQUIRED IN THE NONCOMBUSTIBLE CONCEALED SPACE ABOVE THE CEILING PER FMDS 2-0 AND NFPA 13.
11. PIPE, FITTING, SPRINKLERS, HANGERS, AND COMPONENTS INSTALLED IN CORROSIVE ATMOSPHERES (I.E COMPARTMENTS CONTAINING CORROSIVE MATERIALS AND/OR FUMES, OR EXTERIOR WEATHER CONDITIONS, ETC.) SUCH AS DRAIN PIPES, HANGERS, ALL-THREAD RODS, ETC., SHALL BE AN APPROVED CORROSION RESISTANT MATERIAL.
12. SEISMIC BRACING OF THE SPRINKLER SYSTEM IS NOT REQUIRED.
13. ONLY FM APPROVED DEVICES AND MATERIALS AS SPECIFIED IN FMDS 2-0 SHALL BE INSTALLED THROUGHOUT THE SYSTEM.
14. ALL CONTROL VALVES ON THE FIRE PROTECTION SYSTEM SHALL BE ELECTRICALLY SUPERVISED PER FMDS 2-0 AND NFPA 13.
15. COORDINATE THE TYPE AND EXACT LOCATION OF FLOW AND SUPERVISORY SWITCHES BETWEEN FIRE PROTECTION AND FIRE ALARM CONTRACTORS.
16. ALL SPRINKLERS SHALL BE INSTALLED ACCORDING TO THEIR LISTED SPACING AND OBSTRUCTION REQUIREMENTS.
17. CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL FIRE PROTECTION DEVICES WITH ALL OTHER TRADES.
18. SPRINKLER SYSTEM(S) SHALL BE DESIGNED FOR A MAXIMUM WORKING PRESSURE OF 175 PSI IN ACCORDANCE WITH FMDS 2-0 AND NFPA 13.
19. PROVIDE NEW SYSTEM(S) WITH FLUSHING CONNECTIONS PER FMDS 2-0 AND NFPA 13.
20. PROVIDE AN ADEQUATE SUPPLY OF SPARE SPRINKLER HEADS OF EACH TYPE USED IN THE INSTALLATION ALONG WITH AN APPROPRIATE SPRINKLER HEAD WRENCH AS OUTLINED IN THE SECTION 2.5.1.16 OF THE FM GLOBAL PROPERTY LOSS PREVENTION DATA SHEET 2-0.

POND
3500 Parkway Lane
Suite 500
Peachtree Corners
Georgia 30092

COA: PEF000802
EXP. DATE 6/30/2024

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION
SAVANNAH HILTON HEAD INTERNATIONAL

SAVANNAH AIRPORT COMMISSION

PROJECT NAME

SAC 30610
AIR CARGO FACILITY

400 AIRWAYS AVENUE
SAVANNAH, GA 31408

DRAWING ISSUE

MARK	DESCRIPTION	DATE

DESIGNED BY:	D.BRACE
DRAWN BY:	J.CAHILL
CHECKED BY:	N.SHEWFELT
SUBMITTED BY:	C. JENKINS
DATE:	FEBRUARY 23,2024
PROJECT #:	1200526

SHEET TITLE

FIRE PROTECTION GENERAL NOTES & LEGEND

SHEET NUMBER

2F-001

ORIGINAL SHEET SIZE:
24" X 36"

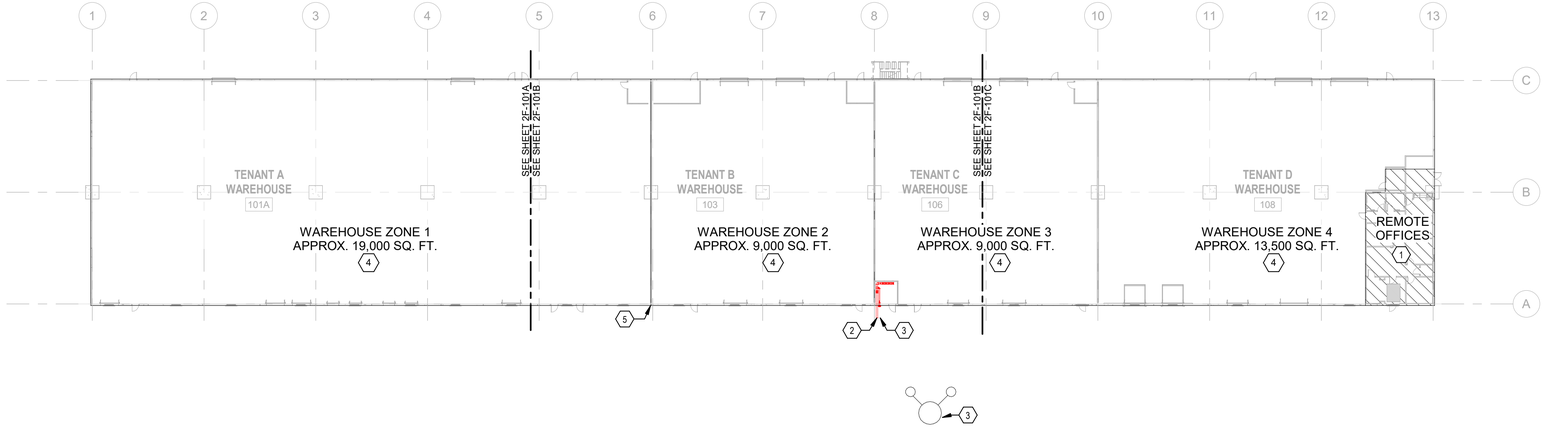
ISSUED FOR BID - NOT FOR CONSTRUCTION

SHEET NOTES

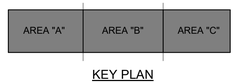
1. SEE SHEET 2F-001 FOR GENERAL NOTES & LEGEND.
2. FIRE SUPPRESSION SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH FM GLOBAL.
3. CONTRACTOR SHALL COORDINATE ALL NEW SPRINKLER WORK WITH OTHER TRADES.
4. A LICENSED FIRE SPRINKLER CONTRACTOR SHALL APPLY FOR SPRINKLER PERMIT AND PROVIDE ANY ASSOCIATED CALCULATIONS OR PLANS REQUIRED BY THE LOCAL AHJ.
5. BACKFLOW PREVENTER SERVING FIRE PROTECTION SYSTEM IS LOCATED IN EXTERIOR VAULT. SEE CIVIL SHEET CU100 FOR LOCATION.

KEYNOTES

1. EXTEND SPRINKLER PROTECTION WATER SUPPLY FOR REMOTE OFFICES OFF OF NEAREST WAREHOUSE SYSTEM.
2. 8" UNDERGROUND WATER SERVICE MAIN. INSTALL MAIN IN ACCORDANCE WITH FMDS 3-10 REQUIREMENTS. PROVIDE CLEARANCE AROUND THE MAIN WHERE IT PASSES UNDER OR THROUGH A FOUNDATION WALL. SEE CIVIL SHEET CU100 FOR CONTINUATION.
3. REMOTE FIRE DEPARTMENT CONNECTION SHOWN HERE FOR CLARITY ONLY. SEE CU103 FOR LOCATION.
4. THE FINAL SPRINKLER SYSTEM MAXIMUM AREA SHALL BE BASED ON THE HYDRAULIC CALCULATIONS PROVIDED BY CONTRACTOR OF AWARD PER FM GLOBAL DATA SHEET 2-0; 2.2.1.4.4. AT LEAST ONE SPRINKLER SYSTEM SHALL BE PROVIDED FOR EACH TENANT SPACE.
5. PROVIDE FLEXIBLE COUPLING FOR SPRINKLER PIPING CROSSING BUILDING EXPANSION JOINT. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION.



A1 FIRE PROTECTION OVERALL PLAN
SCALE: 1/32" = 1'-0"



KEY PLAN
0 16' 32' 64'
SCALE: 1/32" = 1'-0"

POND
3500 Parkway Lane
Suite 500
Peachtree Corners
Georgia 30092

COA: PEF000802
EXP. DATE 6/30/2024

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION

SAVANNAH AIRPORT COMMISSION

PROJECT NAME

SAC 30610
AIR CARGO FACILITY

400 AIRWAYS AVENUE
SAVANNAH, GA 31408

DRAWING ISSUE

MARK	DESCRIPTION	DATE

DESIGNED BY:	D.BRACE
DRAWN BY:	J.CAHILL
CHECKED BY:	N.SHEWFELT
SUBMITTED BY:	C. JENKINS
DATE:	FEBRUARY 23,2024
PROJECT #:	1200526

SHEET TITLE

FIRE PROTECTION OVERALL PLAN

SHEET NUMBER

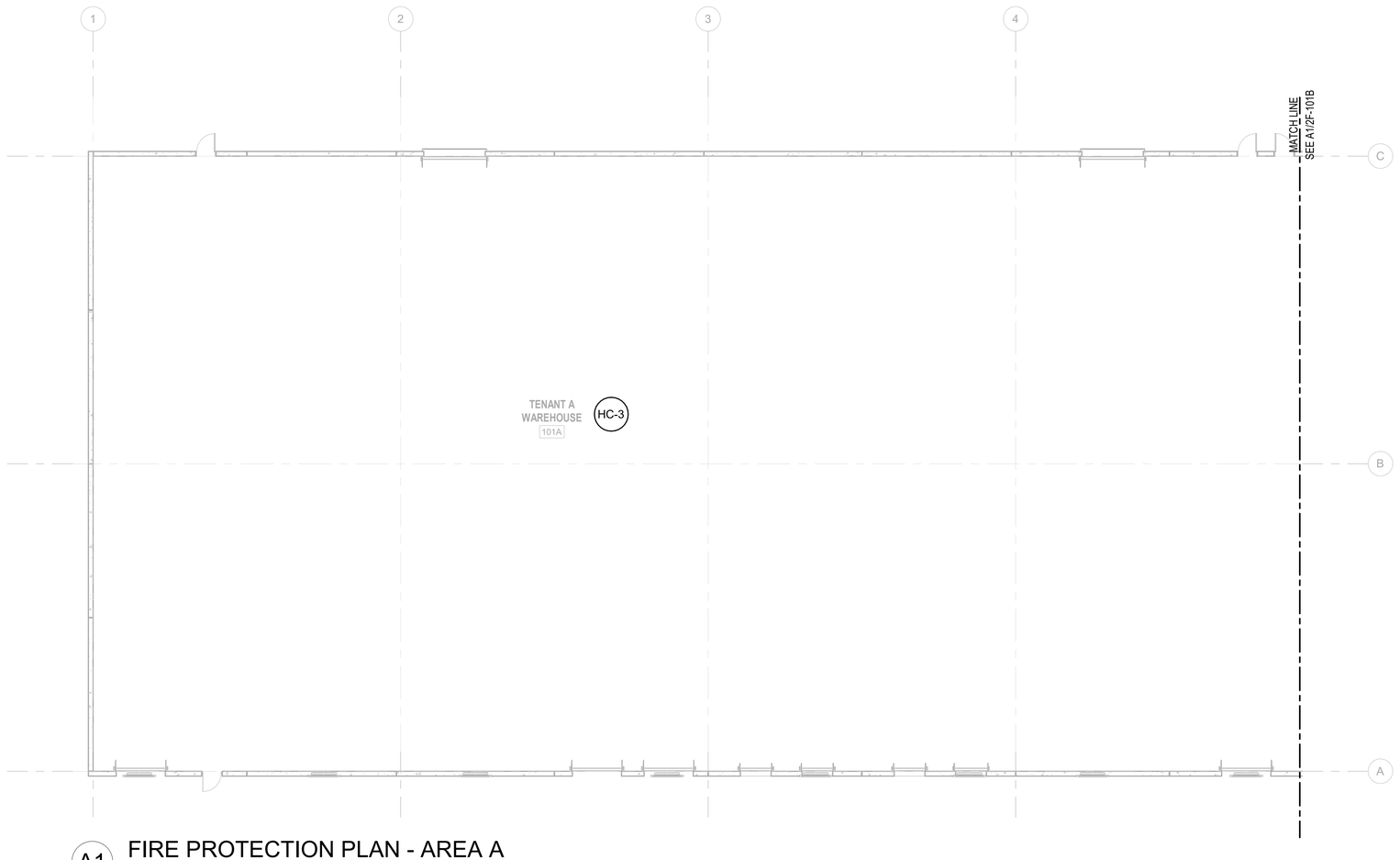
2F-101

ORIGINAL SHEET SIZE:
24" X 36"

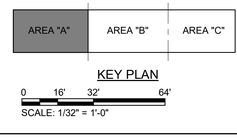
ISSUED FOR BID - NOT FOR CONSTRUCTION

SHEET NOTES

1. SEE SHEET 2F-001 FOR GENERAL NOTES & LEGEND.
2. FIRE SUPPRESSION SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH FM GLOBAL.
3. CONTRACTOR SHALL COORDINATE ALL NEW SPRINKLER WORK WITH OTHER TRADES.
4. A LICENSED FIRE SPRINKLER CONTRACTOR SHALL APPLY FOR SPRINKLER PERMIT AND PROVIDE ANY ASSOCIATED CALCULATIONS OR PLANS REQUIRED BY THE LOCAL AHJ.



A1 FIRE PROTECTION PLAN - AREA A
SCALE: 3/32" = 1'-0"



KEY PLAN
0 16' 32' 64'
SCALE: 1/32" = 1'-0"

POND
3500 Parkway Lane
Suite 500
Peachtree Corners
Georgia 30092

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION

SAVANNAH HILTON HEAD INTERNATIONAL

SAVANNAH AIRPORT COMMISSION

PROJECT NAME

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AIR CARGO FACILITY

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SAVANNAH, GA 31408

DRAWING ISSUE

DATE
DESCRIPTION
MARK

DESIGNED BY: D.BRACE
DRAWN BY: J.CAHILL
CHECKED BY: N.SHEWFELT
SUBMITTED BY: C. JENKINS
DATE: FEBRUARY 23,2024
PROJECT #: 1200526

SHEET TITLE

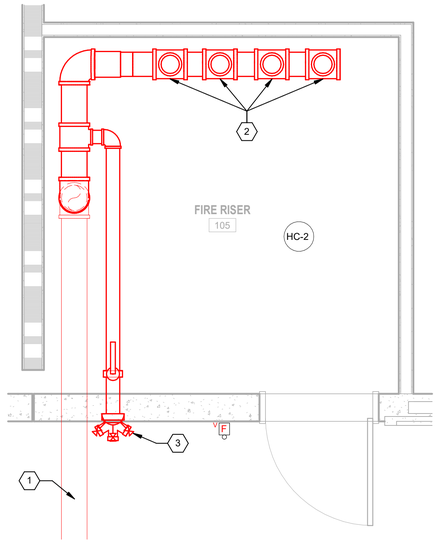
FIRE PROTECTION PLAN - AREA A

SHEET NUMBER

2F-101A

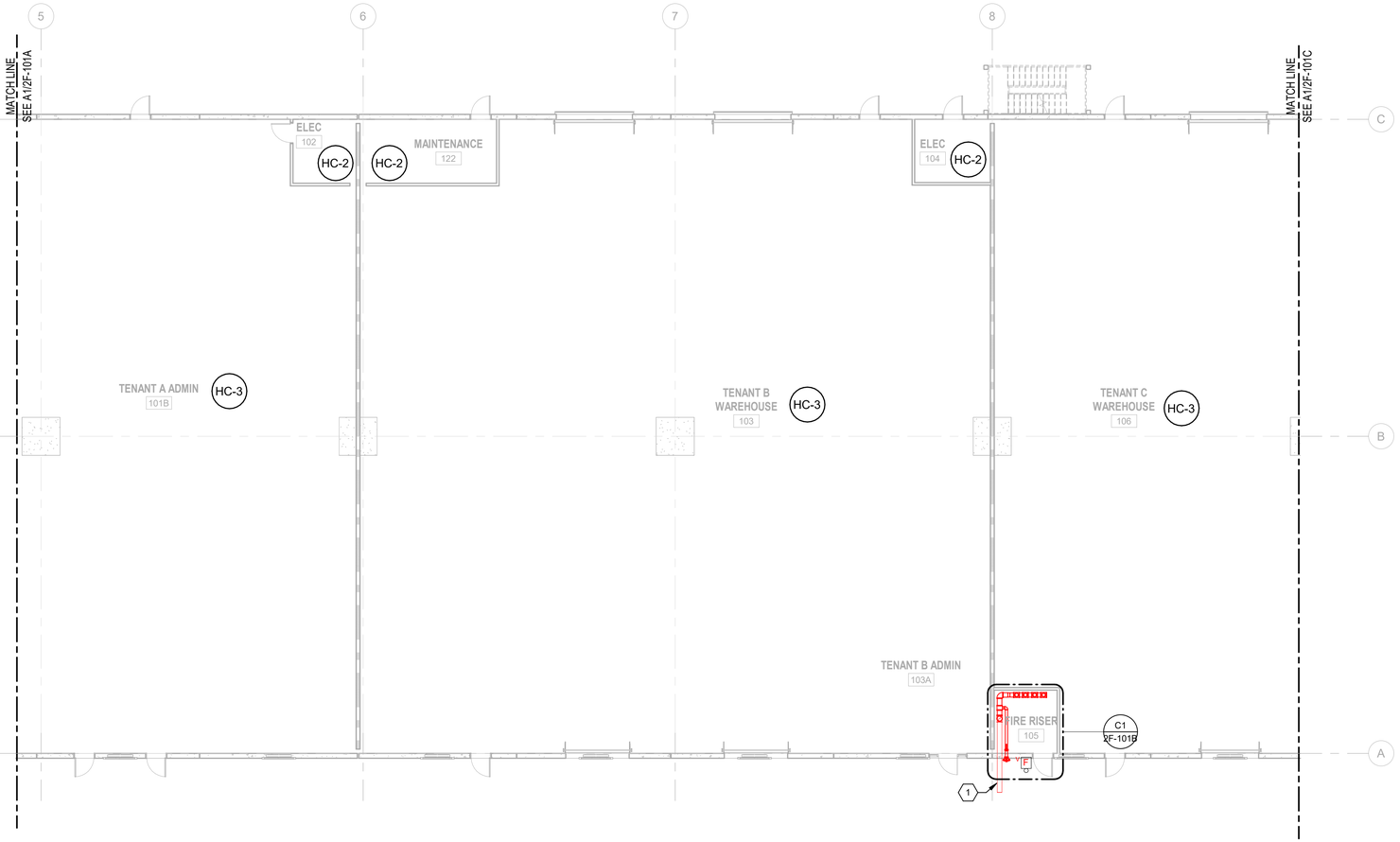
ORIGINAL SHEET SIZE:
24" X 36"

ISSUED FOR BID - NOT FOR CONSTRUCTION



C1 FIRE PROTECTION PLAN - RISER ROOM

SCALE: 1/2" = 1'-0"



A1 FIRE PROTECTION PLAN - AREA B

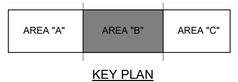
SCALE: 3/32" = 1'-0"

SHEET NOTES

1. SEE SHEET 2F-001 FOR GENERAL NOTES & LEGEND.
2. FIRE SUPPRESSION SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH FM GLOBAL.
3. CONTRACTOR SHALL COORDINATE ALL NEW SPRINKLER WORK WITH OTHER TRADES.
4. A LICENSED FIRE SPRINKLER CONTRACTOR SHALL APPLY FOR SPRINKLER PERMIT AND PROVIDE ANY ASSOCIATED CALCULATIONS OR PLANS REQUIRED BY THE LOCAL AHJ.
5. BACKFLOW PREVENTER FOR THE SITE WILL BE PROVIDED AT THE EXTERIOR OF THE FACILITY. SEE CIVIL SHEET CU101 FOR LOCATION AND DETAIL.

KEYNOTES

1. 8" UNDERGROUND MAIN. SEE CU100 FOR CONTINUATION.
2. WET-PIPE SPRINKLER SYSTEM RISERS WET-PIPE SPRINKLER SYSTEM RISERS WITH CONTROL VALVE, CHECK VALVE, TAMPER SWITCH, WATER FLOW SWITCH, COMBINATION MAIN DRAIN/ INSPECTOR'S TEST CONNECTION (ITC). COMBINATION MAIN DRAIN/ ITC FOR ALL RISERS SHALL BE CONNECTED TO GANG DRAIN THAT IS ROUTED TO THE EXTERIOR WITH SPLASH BLOCK ON GRADE. EACH RISER SHALL SERVE ONE TENANT SPACE.
3. BACKFLOW PREVENTER TEST HEADER.



KEY PLAN

0 8' 16' 24'

SCALE: 3/32" = 1'-0"

POND
3500 Parkway Lane
Suite 500
Peachtree Corners
Georgia 30092

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION

SAVANNAH AIRPORT COMMISSION

PROJECT NAME

SAC 30610
AIR CARGO
FACILITY

400 AIRWAYS AVENUE
SAVANNAH, GA 31408

DRAWING ISSUE

MARK	DESCRIPTION	DATE

DESIGNED BY:	D.BRACE
DRAWN BY:	J.CAHILL
CHECKED BY:	N.SHEWFELT
SUBMITTED BY:	C. JENKINS
DATE:	FEBRUARY 23,2024
PROJECT #:	1200526

SHEET TITLE

FIRE PROTECTION PLAN - AREA B

SHEET NUMBER

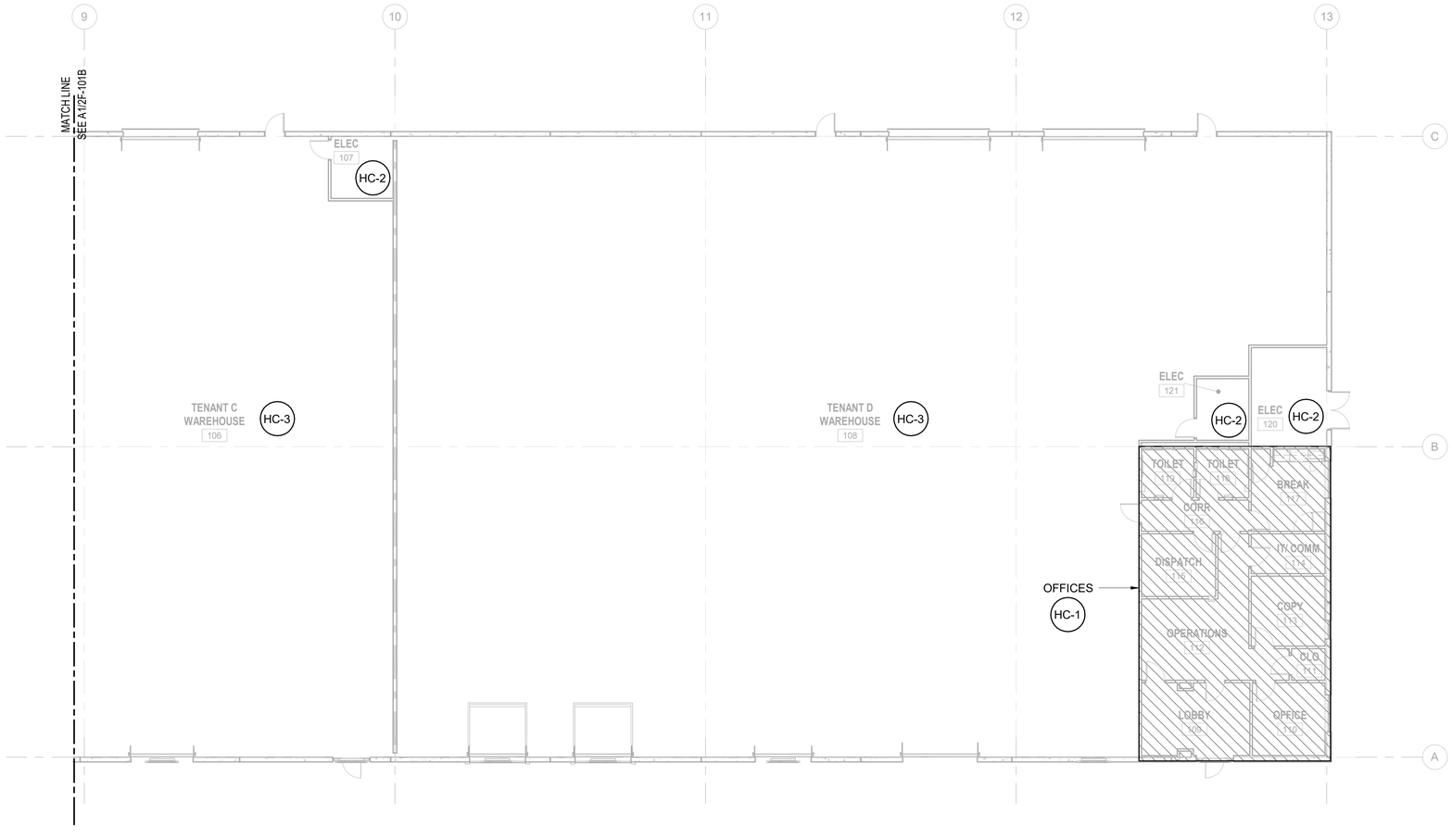
2F-101B

ORIGINAL SHEET SIZE:
24" X 36"

ISSUED FOR BID - NOT FOR CONSTRUCTION

SHEET NOTES

1. SEE SHEET 2F-001 FOR GENERAL NOTES & LEGEND.
2. FIRE SUPPRESSION SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH FM GLOBAL.
3. CONTRACTOR SHALL COORDINATE ALL NEW SPRINKLER WORK WITH OTHER TRADES.
4. A LICENSED FIRE SPRINKLER CONTRACTOR SHALL APPLY FOR SPRINKLER PERMIT AND PROVIDE ANY ASSOCIATED CALCULATIONS OR PLANS REQUIRED BY THE LOCAL AHJ.



A1 FIRE PROTECTION PLAN - AREA C
SCALE: 3/32" = 1'-0"

0 8' 16' 24'
SCALE: 3/32" = 1'-0"

KEY PLAN

POND
3500 Parkway Lane
Suite 500
Peachtree Corners
Georgia 30092

COA: PEF000802
EXP. DATE 6/30/2024

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION
SAVANNAH HILTON HEAD INTERNATIONAL

SAVANNAH
AIRPORT
COMMISSION

PROJECT NAME

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FACILITY

400 AIRWAYS AVENUE
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DESIGNED BY: D.BRACE
DRAWN BY: J.CAHILL
CHECKED BY: N.SHEWFELT
SUBMITTED BY: C. JENKINS
DATE: FEBRUARY 23,2024
PROJECT #: 1200526

SHEET TITLE

FIRE PROTECTION
PLAN - AREA C

SHEET NUMBER

2F-101C

ORIGINAL SHEET SIZE:
24" X 36"

ISSUED FOR BID - NOT FOR CONSTRUCTION

FIRE ALARM LEGEND

FV	ELECTRIC ALARM BELL
FACU	FIRE ALARM CONTROL UNIT
DACT	DIGITAL ALARM COMMUNICATOR TRANSMITTER
FAA	FIRE ALARM ANNUNCIATOR
NAC	NOTIFICATION CIRCUIT POWER BOOSTER
F	MANUAL FIRE ALARM PULL STATION, MOUNT 42" - 48" AFF TO TOP OF HANDLE.
15 C	FIRE ALARM COMBINATION SPEAKER AND CLEAR VISUAL STROBE. WALL MOUNT AT 80" AFF TO BOTTOM OF LENS OR 6" BELOW CEILING, WHICHEVER IS LOWER AND NOT GREATER THAN 96". NUMBER "15" INDICATES CANDELA LEVEL. C = CEILING MOUNTED
	FIRE ALARM CLEAR VISUAL STROBE. WALL MOUNT AT 80" AFF TO BOTTOM OF LENS OR 6" BELOW CEILING, WHICHEVER IS LOWER AND NOT GREATER THAN 96". NUMBER "15" INDICATES CANDELA LEVEL.
15	FIRE ALARM CLEAR VISUAL STROBE. CEILING MOUNTED. NUMBER "15" INDICATES CANDELA LEVEL.
S	FIRE ALARM SPEAKER. WALL MOUNT AT 90" AFF TO TOP OF DEVICE OR 6" BELOW FINISHED CEILINGS, WHICHEVER IS LOWER. C = CEILING MOUNTED
S	SMOKE DETECTOR - PHOTOELECTRIC
RM	RELAY MODULE
CM	CONTROL MODULE
MM	MONITOR MODULE
WF	FLOW DETECTOR/SWITCH
VS	VALVE SUPERVISORY SWITCH
SS	SURGE SUPPRESSOR

GENERAL NOTES

1. DESIGN AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE GEORGIA STATE MINIMUM STANDARD BUILDING CODE WITH 2020 REVISIONS, GEORGIA STATE MINIMUM STANDARD FIRE CODE 2018 EDITION, NFPA 72 "NATIONAL FIRE ALARM AND SIGNALING CODE" 2022 EDITION, NFPA 101 "LIFE SAFETY CODE" 2021 EDITION, NFPA 70 "NATIONAL ELECTRICAL CODE" 2021 EDITION, AND FM GLOBAL DATA SHEET (FMDS) 5-40 "FIRE ALARM SYSTEMS" SEP. 2007.
2. FIRE ALARM FLOOR PLANS AND RISER DIAGRAM ARE DIAGRAMMATIC AND NOT INTENDED TO SHOW EACH AND EVERY COMPONENT, DEVICE, APPLIANCE, ETC. CONDUIT PATHWAYS AND INTERCONNECTIONS SHALL BE DETERMINED BY THE BUILDING FEATURES, NFPA 70, AND SYSTEM MANUFACTURER REQUIREMENTS AND RECOMMENDATIONS.
3. CONTRACTOR SHALL REVIEW THE PROJECT DOCUMENTS AND SPECIFICATIONS TO BECOME FAMILIAR WITH THE SCOPE OF WORK. NOTIFY OWNERS TECHNICAL REPRESENTATIVE WITH ANY DISCREPANCIES OUTSIDE THIS DESIGN INTENT. ANY CHANGE ORDER REQUEST AS A RESULT OF COORDINATION BETWEEN TRADES SHALL BE DENIED.
4. ADHERE TO AND OBTAIN ALL PERMITS, LICENSES AND ALL STATE AND LOCAL GOVERNMENT REQUIREMENTS.
5. DO NOT SCALE PLANS FOR THE PURPOSE OF ESTABLISHING DIMENSIONS. FIELD DIMENSIONS GOVERN.
6. FIRE STOP ALL PENETRATIONS OF SMOKE/FIRE PARTITIONS. FIRE STOPPING SHALL BE OF UL LISTED ASSEMBLY.

FIRE ALARM NOTES

1. CONTRACTOR SHALL SUBMIT COMPLETE BATTERY CALCULATIONS, VOLTAGE DROP CALCULATIONS, MATERIAL SPECIFICATION BROCHURE, AND SHOP DRAWINGS TO OWNER'S TECHNICAL REPRESENTATIVE AND ATLANTA OPERATIONS OFFICE OF FM GLOBAL FOR REVIEW PRIOR TO COMMENCING FABRICATION AND INSTALLATION. FAILURE TO COMPLY IS AT THE RISK OF THE CONTRACTOR.
2. CONTRACTOR SHALL RECEIVE FULL CITY FIRE MARSHALL APPROVAL BEFORE BEGINNING ANY INSTALLATION. APPROVED, "RED STAMPED" SHOP DRAWINGS MUST BE LOCATED ON SITE.
3. CONTRACTOR SHALL PROVIDE AUDIBILITY AND INTELLIGIBILITY PER REQUIREMENTS.
4. ALL NOTIFICATION APPLIANCES CIRCUITS (NAC), SIGNALING LINE CIRCUITS (SLC), AND INDICATING DEVICE CIRCUITS SHALL PERFORM TO CLASS "A".
5. THE INSTALLATION OF WIRING BETWEEN THE FACU AND RELAY MODULES OR APPLIANCES SHALL PERFORM TO CLASS "A".
6. CONDUCTORS FOR THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70. THE CONDUCTORS SHALL NOT BE INSTALLED WITH CONDUCTORS OF LIGHTING OR POWER SYSTEMS. THE SUM OF THE CROSS-AREA OF INDIVIDUAL CONDUCTORS SHALL NOT EXCEED 40% OF THE INTERIOR CROSS SECTION OF THE CONDUIT. ALL FIRE ALARM SYSTEM CONDUIT SHALL NOT BE LESS THAN 3/4". ALL FIRE ALARM CONDUCTORS SHALL BE IN CONDUIT. NO FREE AIR WIRES ACCEPTABLE.
7. WALL MOUNTED FIRE ALARM DEVICES IN UNFINISHED AREAS MAY BE SURFACED MOUNTED, THE CONDUIT MAY BE INSTALLED EXPOSED ON WALLS AND ON CEILINGS.
8. IN FINISHED AREAS, WALL MOUNTED DEVICES SHALL BE SURFACE MOUNTED. THE CONDUIT SHALL BE INSTALLED CONCEALED IN THE WALLS AND CEILINGS UNLESS REFERENCED AS CEILING MOUNTED.
9. ALL DUCT DETECTORS SHALL BE PROVIDED WITH REMOTE STATUS INDICATION. PROVIDE INDICATING LAMP FOR ALL CONCEALED DETECTORS.
10. DUCT SMOKE SENSORS SHALL BE IN ACCORDANCE WITH IMC AND AS INDICATED ON THE CONTRACT DOCUMENTS.
11. DUCT DETECTORS SHALL BE PROVIDED IN SUPPLY AIR SYSTEMS WITH A DESIGN CAPACITY GREATER THAN 2,000-CFM. ACCESS TO DETECTORS SHALL BE PROVIDED FOR INSPECTION AND MAINTENANCE PURPOSES. ACTUATION OF THE DUCT DETECTOR SYSTEM SHALL SHUT DOWN ALL OPERATIONAL CAPABILITIES OF THE AFFECTED UNIT.
12. FIRE ALARM MANUAL PULL STATIONS AT DOOR OPENINGS SHALL BE WITHIN 5' - 0" HORIZONTALLY OF THE DOOR OPENING.
13. PROVIDE SYNCHRONIZATION FOR ALL NEW AUDIBLE (SPEAKER) AND VISIBLE (STROBE) NOTIFICATION APPLIANCES WHERE THERE ARE MORE THAN TWO DEVICES WITHIN A FIELD OF VIEW.
14. PROVIDE TRANSIENT VOLT SURGE SUPPRESSION DEVICE WHERE CIRCUITS PENETRATE THE BUILDING ENVELOPE AND, FIRE ALARM EQUIPMENT SUPPLIED FROM THE BUILDING ELECTRICAL SYSTEM, (I.E NAC BOOSTER PANELS, ETC).
15. STROBE FOR VISUAL FIRE ALARM APPLIANCES SHALL HAVE WHITE/ CLEAR LENS WITH RED HOUSING AND BE LABELED "FIRE".
16. INSTALL SMOKE DETECTORS NO CLOSER THAN 3' - 0" TO HVAC AIR SUPPLY DIFFUSERS.
17. ALL FIRE ALARM PANELS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH NFPA 70 ARTICLE 250 AND 800 WITH A MAXIMUM OF 25 OHMS RESISTANCE.
18. CONTRACTOR SHALL PROVIDE A DOCUMENTATION CABINET AT THE SYSTEM CONTROL UNIT IN THE BUILDING WITH ALL REQUIRED DOCUMENTATION AND SOFTWARE REQUIRED BY NFPA 72 SECTIONS 7.7.2 AND 23.2.2.
19. REFER TO FIRE ALARM SYSTEM SPECIFICATION 284621.11 FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
20. CONTRACTOR IS RESPONSIBLE FOR DESIGN CHANGES. ANY CHANGES TO DESIGN SHALL BE CAPTURED IN THE AS-BUILT DRAWINGS.

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COA: PEF000802
EXP. DATE 6/30/2024

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION

SAVANNAH AIRPORT COMMISSION

PROJECT NAME

SAC 30610
AIR CARGO FACILITY

400 AIRWAYS AVENUE
SAVANNAH, GA 31408

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: D.BRACE
DRAWN BY: J.CAHILL
CHECKED BY: N.SHEWFELT
SUBMITTED BY: C. JENKINS
DATE: FEBRUARY 23,2024
PROJECT #: 1200526

SHEET TITLE

FIRE ALARM GENERAL NOTES & LEGEND

SHEET NUMBER

2FA001

ORIGINAL SHEET SIZE: 24" X 36"

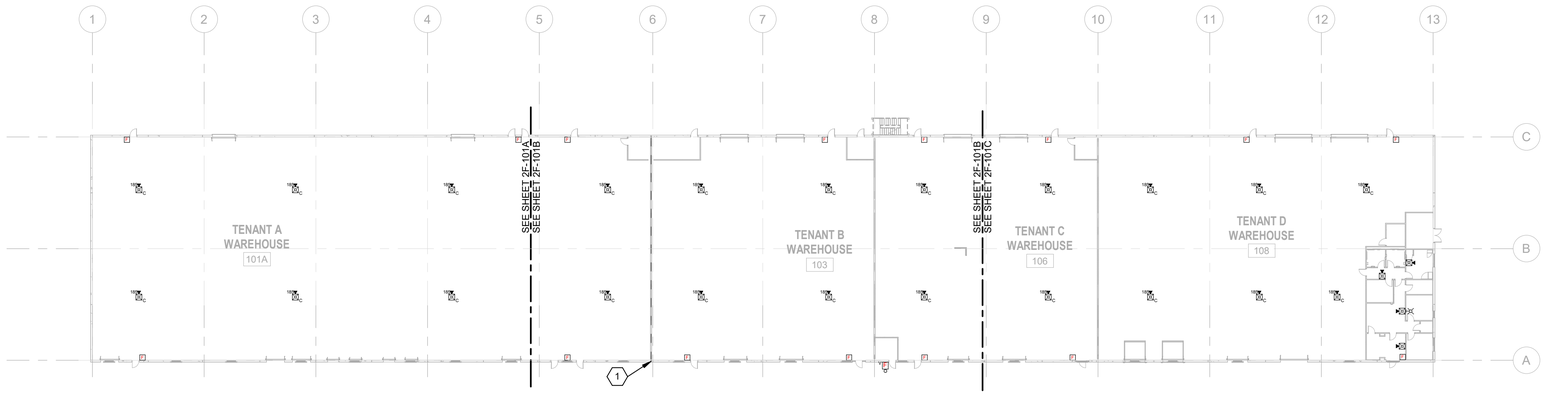
ISSUED FOR BID - NOT FOR CONSTRUCTION

SHEET NOTES

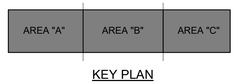
1. SEE SHEET 2FA001 FOR GENERAL NOTES & LEGEND.

KEYNOTES

1. COORDINATE FIRE ALARM CONDUIT THAT CROSS BUILDING EXPANSION JOINT.



A1 FIRE ALARM OVERALL PLAN
SCALE: 1/32" = 1'-0"



KEY PLAN

0 8' 16' 24'
SCALE: 3/32" = 1'-0"

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3500 Parkway Lane
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CHECKED BY:	N.SHEWFELT
SUBMITTED BY:	C. JENKINS
DATE:	FEBRUARY 23,2024
PROJECT #:	1200526

SHEET TITLE

FIRE ALARM OVERALL PLAN

SHEET NUMBER

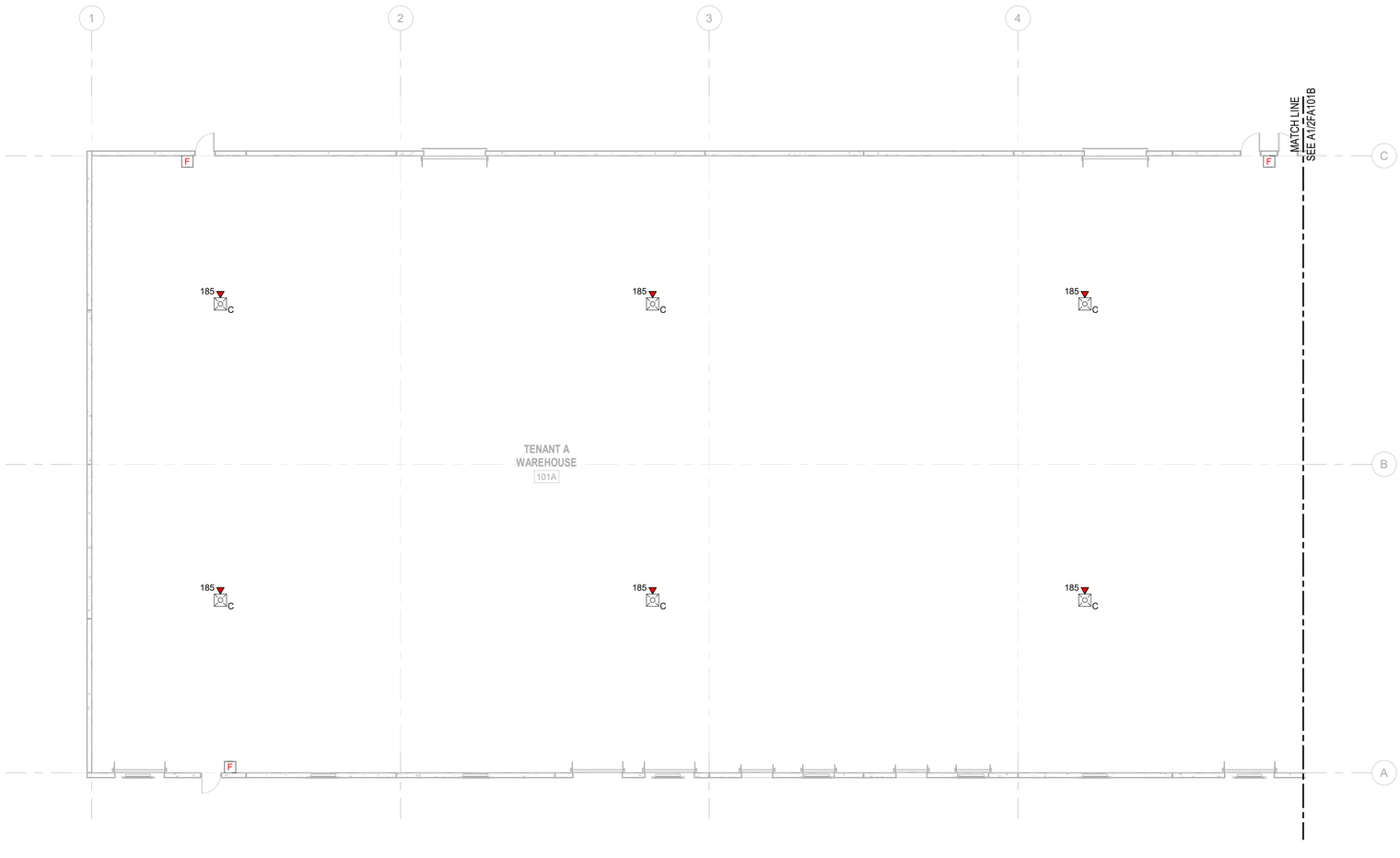
2FA101

ORIGINAL SHEET SIZE: 24" X 36"

ISSUED FOR BID - NOT FOR CONSTRUCTION

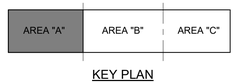
SHEET NOTES

1. SEE SHEET 2FA001 FOR GENERAL NOTES & LEGEND.



A1 FIRE ALARM PLAN - AREA A

SCALE: 3/32" = 1'-0"



KEY PLAN

0 8' 16' 24'

SCALE: 3/32" = 1'-0"

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SHEET TITLE

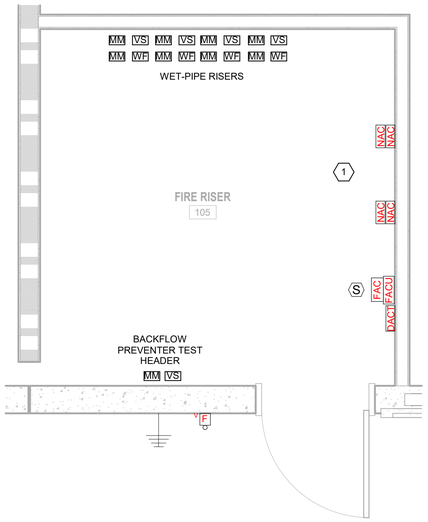
FIRE ALARM PLAN
- AREA A

SHEET NUMBER

2FA101A

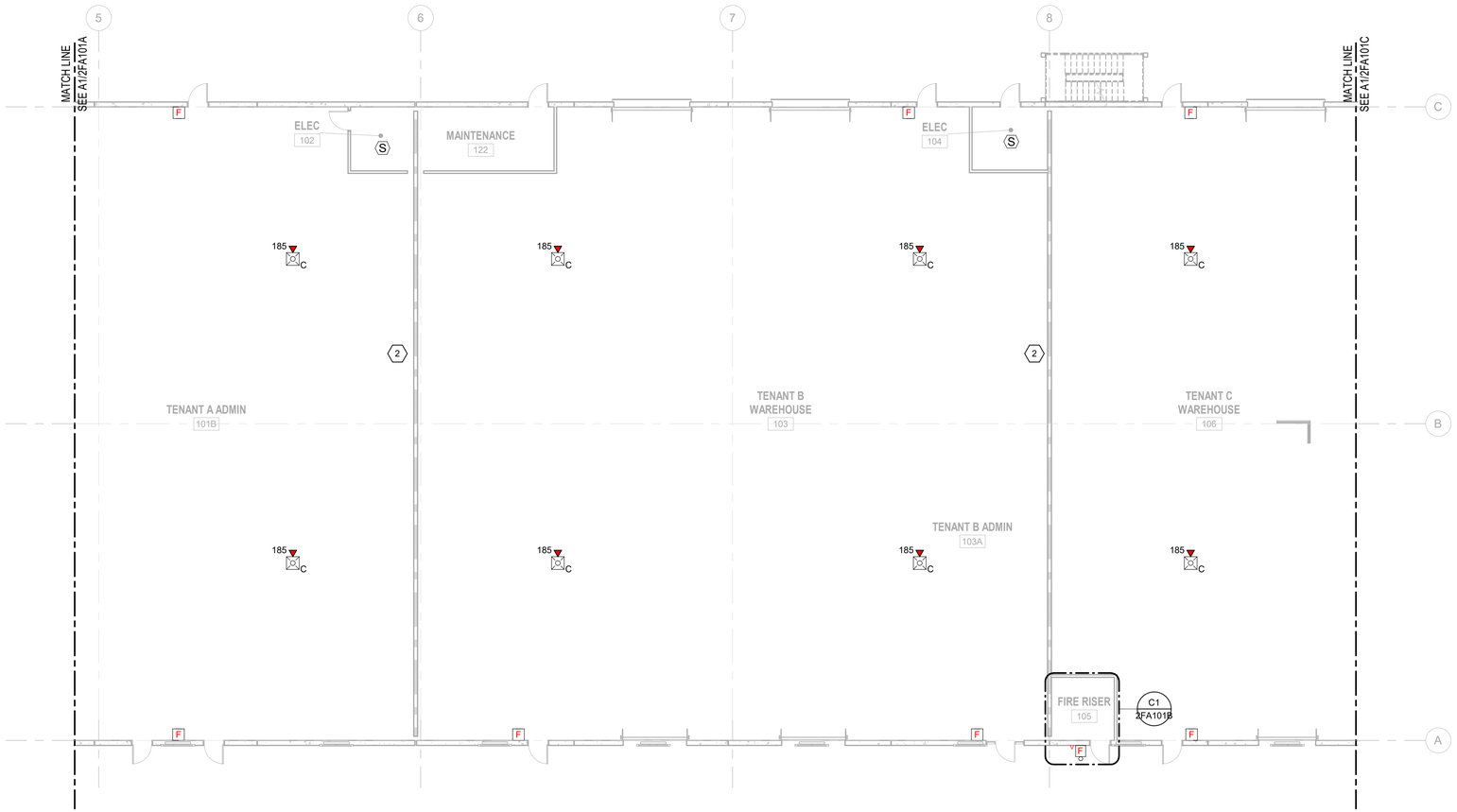
ORIGINAL SHEET SIZE:
24" X 36"

ISSUED FOR BID - NOT FOR CONSTRUCTION



C1 FIRE ALARM PLAN - RISER ROOM

SCALE: 1/2" = 1'-0"



A1 FIRE ALARM PLAN - AREA B

SCALE: 3/32" = 1'-0"

SHEET NOTES

1. SEE SHEET 2FA001 FOR GENERAL NOTES & LEGEND.

KEYNOTES

1. NAC PANELS SHOWN FOR CLARITY. ACTUAL NUMBER AND LOCATION SHALL BE DETERMINED BY THE CONTRACTOR. MINIMIZE THE FOOTPRINT OF THE FIRE ALARM PANELS TO THE EXTENT POSSIBLE. STACK NAC PANELS TO REDUCE THE AMOUNT OF WALL SPACE OCCUPIED. IF ADDITIONAL SPACE IS NEEDED, BANK NAC PANELS AS NEEDED IN WAREHOUSE AREAS.
2. COORDINATE NOTIFICATION APPLIANCE LOCATION WITH FINAL TENANT DIVIDING WALL LOCATION.

KEY PLAN

0 1' 2' 4'
SCALE: 1/2" = 1'-0"

0 8' 16' 24'
SCALE: 3/32" = 1'-0"

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SHEET TITLE

FIRE ALARM PLAN
- AREA B

SHEET NUMBER

2FA101B

ORIGINAL SHEET SIZE:
24" X 36"

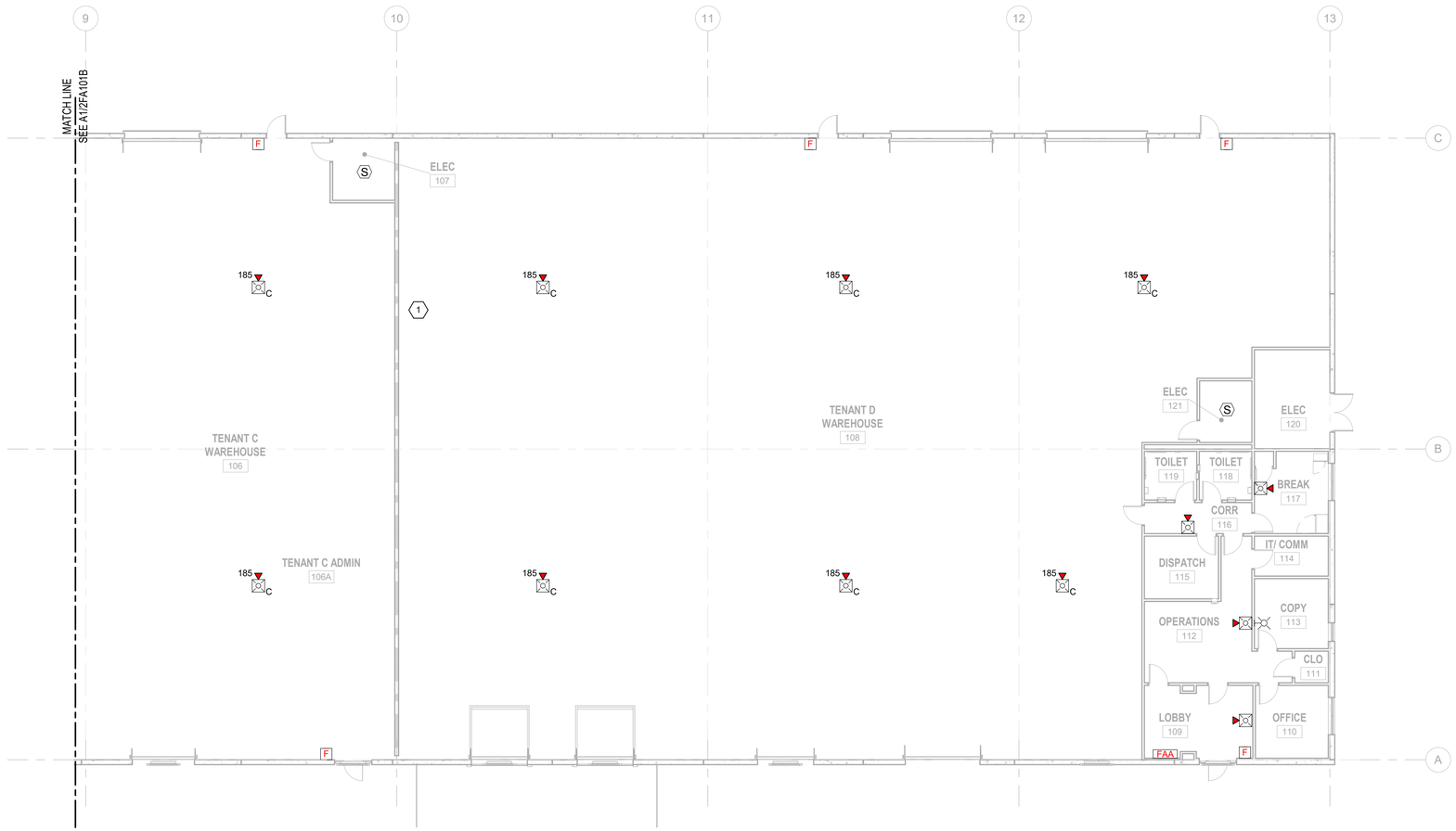
ISSUED FOR BID - NOT FOR CONSTRUCTION

SHEET NOTES

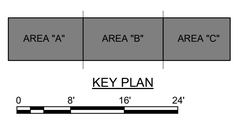
1. SEE SHEET 2FA001 FOR GENERAL NOTES & LEGEND.

KEYNOTES

1. COORDINATE NOTIFICATION APPLIANCE LOCATION WITH FINAL TENANT DIVIDING WALL LOCATION.



A1 FIRE ALARM PLAN - AREA C
SCALE: 3/32" = 1'-0"



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PROJECT #:	1200526

SHEET TITLE

FIRE ALARM PLAN
- AREA C

SHEET NUMBER

2FA101C

ORIGINAL SHEET SIZE:
24" X 36"

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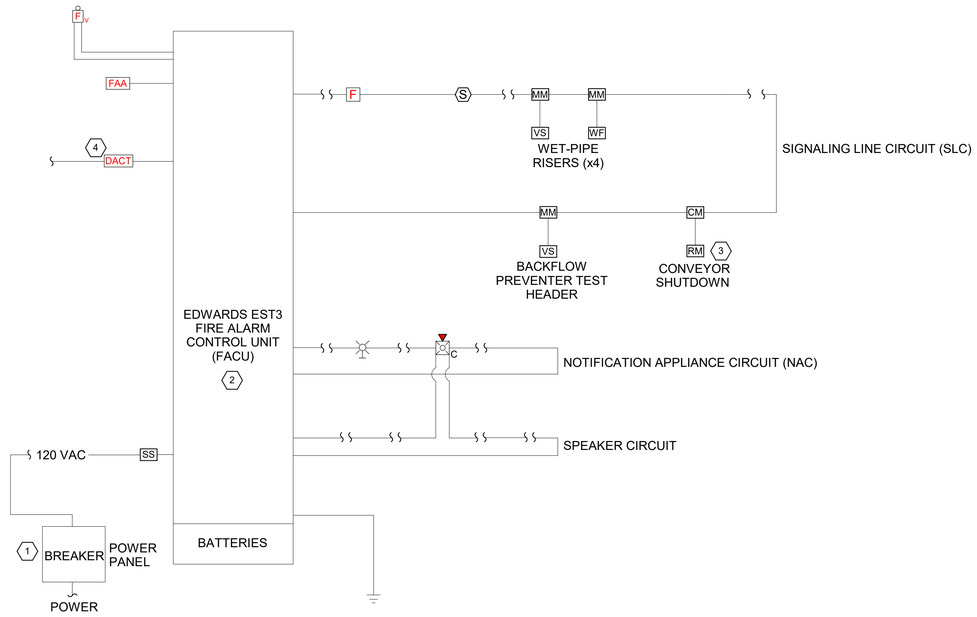

C1 FIRE ALARM RISER DIAGRAM

SCALE: N.T.S.

SYSTEM OUTPUTS

SYSTEM INPUTS		FACU			FIRE SAFETY	CENTRAL STATION			EVAC SIGNALS		CONVEYOR CONTROLS
		ACTUATE AUDIO VISUAL ALARM INDICATOR DEVICES	ACTUATE AUDIO VISUAL SUPERVISORY INDICATION DEVICE	ACTUATE AUDIO VISUAL COMMON TROUBLE INDICATOR	ACTIVATE EXTERIOR ELECTRIC BELL	TRANSMIT ALARM SIGNAL TO CENTRAL STATION	TRANSMIT SUPERVISORY SIGNAL TO REMOTE STATION	TRANSMIT TROUBLE SIGNAL TO REMOTE STATION	ALERT STROBE THROUGHOUT THE BUILDING	FIRE ALARM EVACUATION MESSAGE THROUGHOUT BUILDING	SHUT DOWN INTER-BUILDING CONVEYORS
FIRE ALARMS		A	B	C	D	E	F	G	H	I	J
F1	MANUAL PULL STATION	X				X			X	X	
F2	SMOKE DETECTOR	X				X			X	X	
F3	WATER FLOW SWITCH	X			X	X			X	X	X
SUPERVISORY SIGNALS											
S1	SPRINKLER CONTROL VALVE		X				X				
TROUBLE CONDITIONS											
T1	FIRE ALARM AC POWER FAILURE			X				X			
T2	FIRE ALARM SYSTEM LOW BATTERY			X				X			
T3	OPEN CIRCUIT			X				X			
T4	GROUND FAULT			X				X			
T5	NOTIFICATION APPLIANCE CIRCUIT SHORT			X				X			

A2 FIRE ALARM OPERATIONAL MATRIX

SCALE: N.T.S.

SHEET NOTES

1. SEE SHEET 2FA001 FOR GENERAL NOTES AND LEGEND.
2. FIRE ALARM FLOOR PLANS AND RISER DIAGRAM ARE DIAGRAMMATIC AND NOT INTENDED TO SHOW EACH AND EVERY COMPONENT, DEVICE, APPLIANCE, ETC. CONDUIT PATHWAYS AND INTERCONNECTIONS SHALL BE DETERMINED BY THE BUILDING FEATURES, NFPA 70, NFPA 72, SYSTEM MANUFACTURER REQUIREMENTS AND RECOMMENDATIONS.

KEYNOTES

1. BREAKER SERVING THE FACU SHALL HAVE A RED MARKING PER NFPA 72 SECTION 10.6.2.3 AND 10.6.5.2.4 AND PROVIDED WITH A NON-SWEEP DEVICE (LOCK) PER NFPA 72; SECTION 10.6.5.4 IN ADDITION, MEET THE REQUIREMENTS OF NFPA 72; SECTION 10.6.5.2.2, 10.6.5.2.5, AND 10.6.5.3.
2. FACU SHALL INDICATE THE LOCATION AND IDENTIFICATION OF THE POWER PANEL WHERE THE POWER BREAKER IS LOCATED PER NFPA 72 REQUIREMENTS.
3. CONTRACTOR TO COORDINATE LOCATION AND NUMBER OF THE CONVEYOR SHUT DOWN RELAYS WITH THE FINAL LOCATION AND NUMBER OF THE CONVEYER SYSTEM CONTROL PANELS.
4. FACU SHALL REPORT VIA FIBER TO BUILDING 400 AT SAVANNAH HILTON HEAD INTERNATIONAL AIRPORT. DACT SHALL BE EDWARD SYSTEM TECHNOLOGY (EST) TO BE COMPATIBLE WITH REPORTING STATION. DACT WILL BE POWERED BY THE FACU.

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SUBMITTED BY: C. JENKINS
DATE: FEBRUARY 23,2024
PROJECT #: 1200526

SHEET TITLE

FIRE ALARM
RISER DIAGRAM &
OPERATIONAL
MATRIX

SHEET NUMBER

2FA501

ORIGINAL SHEET SIZE:
24" X 36"

ISSUED FOR BID - NOT FOR CONSTRUCTION