

## **ADDENDUM NO. 2**

**PROJECT:** **ST. JOHN THE BAPTIST PARISH  
GOVERNMENT COMPLEX**

**Date of Addendum:** **May 12, 2016**

**Mandatory Pre-Bid Date:** **April 29, 2016, 10:00 a.m.**

**Bid Date** **May 17, 2016, 2:45 p.m.**

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This Addendum shall be considered part of the Contract Documents for the same above mentioned project as though it had been issued at the same time and incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original Contract Documents, this Addendum shall govern and take precedence.

### **GENERAL**

1. Pre-Bid Sign-in sheet attached.
2. Per the landscape drawings, no irrigation is required within landscape beds.
3. All testing shall be paid for by the Owner. Contractor will be responsible for coordination of all testing required for the Project.
4. The construction budget is \$10,000,000.00
5. The construction contract time is 365 days.
6. The project is sales tax exempt from local taxes only. Tax exemption will be issued by St. John the Baptist Parish per each contractor and subcontractor.
7. The permit fee has already been paid for this project.
8. See attached Geotechnical Investigation Report prepared by Gulf South Engineering and Testing, Inc., dated September 22, 2105.
9. Floor tile within restrooms shall match wall tile as indicated in schedule.

10. Fireproofing of structural steel is not required.

### **SPECIFICATIONS**

1. Section 07 2600 Moisture Control System, Section 1.01 Summary – Change wording from “installed under all finished flashing” to “installed under all finished flooring”.
2. Section 08 4523 Kalwall – Remove and replace specification with the attached.
3. Section 08 3000 Sectional and Coiling Overhead Doors – Add specification in its entirety to the Project Manual.
4. Section 09 6723 Resinous Flooring – Delete the specification from the Project Manual.
5. Section 03732 Plastic Pavement Markings – Add specification in its entirety to the Project Manual.
6. Section 13 4713 Bullet Resistant Teller and Service Equipment - Add specification in its entirety to the Project Manual.

### **DRAWINGS**

1. Sheets A.2.0, A.2.1 – Remove and replace with the attached.
2. Sheet A.5.0 – Remove note to provide equipment screen. No equipment screens shall be required on roof for this project.
3. See attached ASK-01 detailing material in the Lobby.
4. See attached ASK-02 detailing Registrar of Voters interior elevation.
5. See attached ASK-03 detailing Registrar of Voters interior elevation.
6. See attached ASK-04 detailing elevation of Door 48 at Registrar of Voters.
7. See attached ASK-05 updating floor plan call outs in General Office 103.
8. See attached ASK-06 section of counter at Office 104.
9. See attached ASK-07 section at wet wall in restrooms.

### **MECHANICAL**

1. Please see attached letter, dated May 11, 2016, from Crumb Engineering, LLC, for mechanical items and add those items listed/discussed in the correspondence in its entirety to this addendum.

### **ELECTRICAL**

1. Please see attached letter, dated May 12, 2016, from Creative Engineering Group, LLC, for electrical items and add those items listed/discussed in the correspondence in its entirety to this addendum.

### **PRIOR APPROVALS**

1. Section 07 2413 Stucco - See attached Substitution Request Form approving Senergy's CBS 1000 as an approved manufacturer.
2. Section 08 1416 Flush Wood Doors – See attached Substitution Request Form approving VT Industries – Heritage Series as an approved manufacturer.
3. Section 09 5113 Acoustical Panel Ceilings – See attached Substitution Request Form approving Gordon – Contura Paired as an approved manufacturer.
4. Section 09 5113 Acoustical Panel Ceilings – See attached Substitution Request Form approving Sound Concepts – Shapes & Canopies as an approved manufacturer.
5. Section 07 4219 Metal Plate Wall Panels – See attached Substitution Request Form approving American Metalcraft Inc. Rainsscreen 100 Aluminum Plate Wall Panel System as an approved manufacturer.

### **RFI's**

Question: The Roof Plan A.5.0 – the scale does not appear to be correct. Please advise.

Answer: Sheet A.5.0 scale shall be 3/32" = 1'-0" in lieu of 3/16" = 1'-0" shown.

Question: Can you confirm whether interior window elevation J is to be storefront framing or hollow metal framing?

Answer: Window J shall be storefront per schedule on Sheet A.4.6.

Question: A clear anodized finish has been specified for the finish of the aluminum storefront and curtain walls, however in the storefront specs, a 20 year finish

warranty has been required. Please note that the max finish warranty on anodized finishes is 10 year which comes at extra cost. Please advise.

Answer: All storefront and curtain wall shall be clear anodized with manufacture's 10 year finish warranty.

Question: In the Glass spec, a glass type has been written with no clarification of performance values, tint color, etc. Please provide performance requirements for the glass as low-e pricing ranges. Also, a tint color will need to be specified.

Answer: Glazing shall have the following criteria:

- a. Winter U-Value - .93
- b. Summer U-Value - .85
- c. SHGC - .35
- d. Shade Coefficient - .41
- e. Visible Light Transmittance – 16%
- f. Visible Light Reflectance (Out) – 9%
- g. Visible Light Reflectance (In) – 20%
- h. Total Solar Transmittance – 7%
- i. Total Solar Reflectance (Out) – 7%
- j. Ultraviolet Transmittance <1%

Question: Is the pews in the council chambers by contractor? If so, please provide a spec on it.

Answer: The seats shown in the Council Chamber shall be provided and installed by the general contractor. The seats shall be Seating Concepts, Model Producer. All seats shall be equipped with table arm option. Seating Producer, LLC, 2225 Hancock Street, San Diego, CA 92110, 1-619-401-3159, or approved equal. Criteria shown below:

- a. Seat back: 34"
- b. Chair width: 21"
- c. Seat back: Injection Molded Square
- d. Seat style: Standard
- e. Seat Return: 45%
- f. Seat Bottom: Injection Molded
- g. Arm Rests: Radius Injection molded
- h. Aisle Panels: Concave 522
- i. Center Stanchion: 20% to have retractable Center Arm

Question: Specs call for 3000psi concrete for the slab but S.0.1 calls for 4000psi for the slab. Please clarify

Answer: Spec 03301 is the specification for structural concrete which indicates 4,000 psi.

Question: S.0.1 under “shop drawings requiring engineering” item 2. This gives a list of delegated design items. Is this list correct?

Answer: Yes, this note is applicable.

Question: Vapor Barrier – It is shown in multiple places as different thicknesses. Please verify what is the thickness required?

Answer: Specification 03301 Section 2.4.A.1 should be used for the vapor barrier below the slab on grade.

Question: I didn't notice any hoist beams or elevator rails called out in the elevator shaft. If not, please provide a sketch

Answer: Coordinate elevator rail connections with the elevator vendor drawings. The hoist beam shall be a W8x24 with top of steel at EL; 27'-2" AFF. Detail 1/S.4.1 indicates connection details for steel beam to beam connections, or as required by manufacturer.

Question: I don't see any waterproofing called out for the elevator pit. Is there any? Is there an admix for the concrete?

Answer: Waterstops are provided at the elevator pit wall to foundation interface (Detail 4/S.2.3). Concrete admixture requirements are provide in Specification 03301.

Question: In regards to the Contractors question about grade beam and brick ledges

Answer: The brick will be supported by a turndown slab at the perimeter of the building. Brick ledge/slab edge layout is shown on drawing S.1.1, and details are provided on drawings S.3.1 and S.3.2.

Question: In regards to the roof purlins in plans 2 & 3 on S.1.5

Answer: Roof Purlins are C6x13 at 36" on center as shown in plan number 3 on drawing S.1.5.

Question: What are the handrails at the council platform steps made of?

Answer: The handrail within the Council Chambers shall be stainless per Specification 05 7300 Decorative Metal Railings.

Question: Is any of the kitchen equipment by contractor? If so, please provide spec.

- Answer: All appliances shall be provided by the Owner.
- Question: There is no description or detail explaining the different walls in the bathrooms. Could you clarify what you would like them to built as?
- Answer: Per the specification 09 2900 Gypsum Board the contractor shall install 5/8” cementitious board backer board prior to installing tile.
- Question: Please clarify if the 5/8" Exterior Plywood is to be FSC certified, as that will be a large cost increase to the job. Please see spec section 06 1600-2, paragraph 2.2 B.
- Answer: Plywood specified in section 06 1600 does not have to be FSC-accredited certification
- Question: Why do we need blocking behind cabinets?
- Answer: This is required to secure the cabinets to the wall.
- Question: Does construction joint get cut full depth of slab.
- Answer: Control joints will be cut 1.25” deep per detail 4/S2.3.1. Construction joints are full depth of slab per detail 3.S.3.1.
- Question: Detail 3/S.3.2 can’t find on plans.
- Answer: Detail 3/S.3.2 is a typical exterior stair detail which may not be applicable for this project.
- Question: Tension pile caps not shown.
- Answer: Tension pile caps are noted as such on drawings S.1.0 with the designation “**PC#T**” and details in section 6/S.3.2.
- Question: Can’t find 5” slab on plans.
- Answer: Detail 2/S.3.1 is applicable at all slab expansion joints including at isolation joints around columns.
- Question: No spec for Wood Piling.
- Answer: Wood piling notes are provided on Drawing S.3.2. See attached page of this response for pile selection criteria.
- Question: The Serpentina Waves do not have appropriate sizes and are lacking of any product numbers. We need proper sizing and product numbers for pricing.

Answer: See attached Sketch ASK-08 and ASK-09.

Question: The C2 paired compass does not list whether it is a straight or curved segment. It also does not list which size is to be used in the actual construction.

Answer: The C2 Paired Compasso shall be made of curved and straight segment to match what is shown on sheet A.6.0.

Question: There are no soffit heights included in the drawings. There are a couple L soffits that need clarification.

Answer: Refer to sections and interior elevations for soffit heights.

Question: Wall Section A-11 on sheet A3.7 is indicating that elevation M is to be storefront. However, the window schedule and elevations clearly indicate Kalwall. Please confirm whether elevation M is to be storefront or Kalwall.

Answer: The top portion of the window wall is Kalwall per the exterior elevations.

Question: Elevation A-12 on Sheet A4.11 shows a door and sidelite elevation intended for use at doors 108,109,112,113. However, Elevation 109 is being called out on sheet A4.10 as elevation A-1. Please confirm whether door 109 should be elevation A-12 on Sheet A4.11 or Elevation A-1 on A4.10.

Answer: Door 109 shall be as detailed in detail A-1/A.4.10

Question: On the floor plan on sheet A1.4, Doors 108, 112, and 113 do not indicate a door with sidelites. However, they are listed as an elevation on sheet A4.11 Elevation A-12. The door schedule does not indicate them as storefront with sidelites. Please confirm whether these doors are supposed to be storefront with sidelites or wood doors by others.

Answer: Doors 108, 112, and 113 shall be as detailed in detail A-1/A.4.10.

Question: The floor plan shown on sheet A1.9 shows 7 Type I window marks on the front of the building second floor. However, the elevations do not show such window mark. Are there to be 7 Type I window marks on the front elevation or 6. Please confirm.

Answer: There are 6 type I window per the Exterior Elevations.

Question: On sheet A4.13, Elevation G-14 indicates a door elevation with sidelite with frosted glass and etched lettering. However, no door numbers are indicated for this elevation. Please indicate which doors are to use this elevation.

- Answer: This Elevation applies to the following doors 103, 99, 49, 55, 25, 180, 187, 132
- Question: Elevation G-14 on Sheet A4.13 - please confirm the wording to be sandblasted onto the glass. Our suppliers require a letter count to price.
- Answer: Pre Detail it states frosted glass. It does not say sandblasted glass. The names of each department being served shall be in clear letters per the detail. Refer to previous answer.
- Question: Is the St. John the Baptist Parish logo as shown on Elevation G-11 on sheet A4.13 and Elevation J on Sheet A4.32 Elevations G-1 and G-9 to be provided by the GC and installed by the glazing sub?
- Answer: The contractor shall provide glass with frosted logo per the details. We do not indicated anywhere that owner will provide logo sticker and contractor will install.
- Question: Does the second floor require shoring during concrete placement.
- Answer: No, the decking does not need to be shored during slab placement.
- Question: The specifications indicate that an Owners Protective Policy MAY be required. Do you know yet if it will be required? If so, I need more details on this project (start date, end date, contract amount, one or 2 story, etc.)
- Answer: Owners Protective Policy shall not be required for this project.
- Question: On the door schedule, door 14 is shown as a storefront door with a 1 hour fire rating. Are we to price this door as a fire rated storefront door or is the fire rating a mistake?
- Answer: Door #14 shall not be fire rated.
- Question: On the door schedule, some of the doors show dimensions of 7'-2" x 5'-0", I believe these dimensions may be incorrect. This is not a typical size for a storefront door, can we get clarification on these dimensions?
- Answer: Storefront doors shall be 3'-0" x 7'-0".

**MURRAY ARCHITECTS**  
**MEETING SIGN-IN SHEET**

**Project:** St. John the Baptist Parish Government Complex  
**Facilitator:** Michael Tabb, AIA  
Murray Architects

**Meeting Date/Time:** Pre Bid Conference  
Friday April 29, 2016 10:00 a.m.  
**Place:** Joel S. Mc Topy  
Council Chambers  
Laplace, LA 70068

Name / Title	Company/Lic #	Sub Or G.C.	Phone#	Fax#	E-Mail
Frank Ausubone Sr. VP.	Frank Ausubone GC 6652	G.C.	(985) 542-2744	(985) 230-0614	Frank@AusuboneGC.com
Mike Miller - Estimator	Lincoln Builders of Baton Rouge, Inc. 48570	G.C.	225-706-5038	225-706-5039	MikeMiller@lincolnbuilder.com
Todd Norton - COD	American Integration Contractors FR42 / 52406	Sub.	888-524-8534	225-302-8453	ToddN@getAIC.com

MURRAY ARCHITECTS  
MEETING SIGN-IN SHEET

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 Meeting Date/Time: Pre Bid Conference Friday April 29, 2016 10:00 a.m.  
 Facilitator: Michael Tabb, AIA  
 Murray Architects  
 Place: Joel S. Mc Topy Council Chambers  
 Laplace, LA 70068

Name / Title	Company/Lic #	Sub Or G.C.	Phone #	Fax #	E-Mail
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Name / Title	Company/Lic #	Sub Or G.C.	Phone#	Fax#	E-Mail
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# **GEOTECHNICAL INVESTIGATION REPORT**

**ST. JOHN THE BAPTIST PARISH  
NEW GOVERNMENT COMPLEX  
1801 LA HWY. 61  
LAPLACE, LOUISIANA**

**FOR**

**SJTB PARISH  
C/O MURRAY ARCHITECTS  
DESTREHAN, LA**

*GULF SOUTH ENGINEERING AND TESTING FILE NO. 15-044*

*September 22, 2015*



**2201 Aberdeen Street, Suite B, Kenner, LA 70062**

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September 22, 2015

Murray Architects  
13760 River Road  
Destrehan, LA 70047

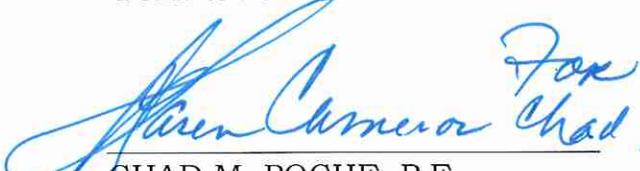
Attention: Mr. Michael Tabb, AIA .  
PN: (985) 767-7275  
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E-mail: [Tabb@murrayarchitects.net](mailto:Tabb@murrayarchitects.net)

Re:  
Geotechnical Investigation Report  
St. John the Baptist Parish  
New Government Complex  
LA Hwy. 62  
LaPlace, LA  
*Gulf South Engineering & Testing File No. 15-044*

Dear Michael,

Please find attached our geotechnical investigation report that was completed for the referenced project. We appreciate the opportunity to serve your geotechnical needs. Please contact us should you have any questions.

Sincerely,  
**GULF SOUTH ENGINEERING AND TESTING, INC.**

  
CHAD M. POCHE, P.E.  
Principal/Vice President

  
BLAKE E. VUTERA, P.E.  
Geotechnical Engineer

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FIGURES - 1 through 3

APPENDIX – Boring Logs

# **GEOTECHNICAL INVESTIGATION REPORT**

**ST. JOHN THE BAPTIST PARISH  
NEW GOVERNMENT COMPLEX  
1801 LA HWY. 61  
LAPLACE, LOUISIANA**

***GULF SOUTH ENGINEERING AND TESTING FILE NO. 15-044***

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## **1.0 INTRODUCTION & LIMITATIONS**

This report contains the results of a geotechnical investigation made at the subject site. Instructions to proceed with the investigation were received from Murray Architects (Client) via approval of our proposal dated July 29, 2015.

The study included drilling soil test borings and the performance of soil mechanics laboratory tests to evaluate the soil's physical characteristics. Engineering analyses were made and based on the field and laboratory test data to develop recommendations for the project.

The analyses and recommendations presented in this report are based on the provided project information and the results of the investigation. While it is not likely that conditions will differ significantly from those observed during the field investigation it is always possible that variations can occur away from the borehole location(s).

If it becomes apparent during construction that subsurface conditions differing significantly from those observed in our boring(s) are encountered, Gulf South should be notified. Also, should the nature of the project change or should any of the stated assumptions be inaccurate, the recommendations provided in this report should be re-evaluated.

## MURRAY ARCHITECTS

This report has been prepared for the exclusive use of our Client. The recommendations provided in this report are site specific and are not intended for use at any other site or for any other project. This report provides recommendations for design and construction and should not be used as construction specifications.

Gulf South considers the materials testing and onsite inspection during construction an extension of our geotechnical investigation and a key component to ensuring the recommendations provided in this report are followed. For this type of project, these services may consist of earthwork testing and monitoring, pile inspection and monitoring, vibration monitoring, concrete testing and inspection, and steel inspection. Gulf South should be retained to provide the construction inspection services for this project.

### 2.0 SOIL BORINGS

Seven (7) undisturbed soil borings (Boring B-1 through B-7) were drilled to depths of 50 feet (Boring B-1 to B-3) and 6 feet (Borings B-4 to B-7) below the ground surface on August 25, 2015. The borings were drilled with an ATV mounted drill rig at the designated locations as approximately shown on Figure 1.

Undisturbed sampling was performed continuously or on approximate 5 foot centers in all cohesive or semi-cohesive materials with a three inch diameter thin wall tube sampler. The samples were extruded in the field, representative portions of each sample were trimmed and placed in moisture proof containers, the samples were properly labeled, and secured for transport to the laboratory.

When cohesionless material was encountered or when soils could not be adequately sampled by undisturbed methods, the Standard Penetration Test was performed. This test consists of driving a two-inch diameter split spoon sampler a total of approximately 18 inches with a 140 lb. hammer falling 30 inches.

The number of blows required to drive the sampler per 6 inch increment is recorded and gives an indication of the density of the material. The blows per foot shown on the boring log are the total of the blow counts for the final 12 inches of penetration.

### **3.0 LABORATORY TESTING**

Soil mechanics laboratory tests were performed on samples obtained from the borings. The testing consisted of natural moisture content, unit weight, Atterberg limits, and unconfined compression (strength testing). The results of the laboratory tests are shown on the soil boring logs provided in the Appendix of this report.

### **4.0 SUBSOIL CONDITIONS**

#### **4.1 Subsoil Description**

Reference to the borings shows there is soft to stiff silty clay from the ground surface to the approximate 13 foot depth. Soft to medium stiff clay follow to the approximate 30 foot to 35 foot depths. Beneath the clay layer, a clayey sand layer, approximately 8 to 10 feet thick, was encountered to the approximate 38 foot to 45 foot depths at Borings B-2 and B-1, respectively. Boring B-3 encountered very soft to soft sandy clay at these depths. Beneath the sand layer, medium stiff to stiff silty clay and clay follow to the deepest boring's termination depth of 50 feet.

#### **4.2 Groundwater**

At the time of making the borings, groundwater levels were observed in the borings and shown in the table below.

Boring No.	Reading 1 (Initial, Depth bgs) [Feet]	Reading 2 (After 15 min., Depth bgs) [Feet]
B-1	5.75	4.75
B-2	4.75	4.25
B-3	7.00	4.50
B-4	7.00	4.50
B-5	5.50	4.00
B-6	3.75	3.25
B-7	3.25	3.00

These observations were made during a short period of time and groundwater may not have become fully realized at the time of observation.

Groundwater can fluctuate with seasonal precipitation, drainage, and prolonged drought. If the depth to groundwater is important to construction, it should be measured at that time.

**5.0 FURNISHED INFORMATION AND FOUNDATION RECOMMENDATIONS**

Furnished information indicates a new government complex building will be constructed at 1801 LA Hwy. 61 (Airline Hwy.) in LaPlace, LA. The new structure will be 4-stories and approximately 175 feet by 175 feet in plan dimensions. Parking/driveway areas are planned adjacent to the new structure. Structural loads were not furnished but are expected to be typical for this type of structure.

We understand approximately 3 feet of fill will be placed at the site. Gulf South should be notified if any of this information or our assumptions are incorrect.

## **MURRAY ARCHITECTS**

The near surface clay soils encountered in the borings are soft and should not be relied upon for support of the structure using shallow foundations. Therefore, we recommend the structure be supported on deep foundations consisting of driven, timber, piles.

Two of the borings performed within the proposed structure's footprint (B-1 & B-2), encountered a medium dense to dense sand layer from the approximate 30 to 40 foot depths that is adequate for end bearing piling. However, Boring B-3 did not encounter the sand layer. Prior to construction, we recommend that a probe pile program be performed to verify pile tip depth and load capacities due to the discontinuity of the end bearing sand stratum throughout the site. Piles installed in area where the sand layer is not present will be "skin friction" piles.

Structural analyses and the structural adequacy of the foundations are outside our scope of work for the project. Utilities to and from the structure should be attached to the slab using suitable hangers and flexible connections.

Preliminary laboratory test results indicate the near surface soils at the site have minimal to slight shrink/swell potential. Dry soil conditions were encountered within the borings to the approximate 2 foot depth below the ground surface. Care should be taken during and after construction to limit activities that could affect moisture within the soils below and around the foundations. By precluding surface waters from saturating the soils, the resulting volumetric movements will be minimized. In this regard, good roof and surface drainage should be assured with positive collection and runoff of these waters.

### **6.0 DEEP FOUNDATIONS**

A deep foundation system consisting of driven piles (treated, timber, piles) should be used to support the proposed structure. All loads from the structure should be supported on piles.

### **6.1 Pile Load Capacities**

Analyses were made to estimate the load carrying capacity of several types and lengths of treated timber piles (ASTM D-25). Piles installed for this project will receive their support through skin friction and should be driven to the minimum recommended embedment depths.

Estimated pile load capacities are provided on Figure 2. The given pile lengths are as measured from the existing ground surface and contain factors of safety of 2.0 and 3.0 against failure in compression and tension, respectively. Pile lengths above the ground surface should be added to the lengths provided on Figure 2 to obtain a total pile length.

### **6.2 Drag Load**

When fill is placed on the site, the underlying compressible soils consolidate, resulting in surface settlement. As the compressible soils consolidate, “negative skin friction” or downdrag can be imparted on piles. This can result in a load that is additive to structural loads on the piles and will increase settlement of the piles and structure.

Drag load is dependent on the thickness of fill, compressibility of the soils, time-rate of consolidation, and pile size and length. Gulf South should be notified if more than 3 feet of fill is planned than what has been described in this report.

### **6.3 Group Effect**

The effects of pile grouping on single pile load capacities is dependent on pile spacing, pile lengths, and soil characteristics throughout the pile length and below the pile tip. Assuming a minimum center to center spacing of 3 ft., group effect should be unimportant for pile clusters of up to 6 piles. Group effect may become important for larger clusters and should be evaluated when actual pile layouts are known using the criteria provided on Figure 3.

**6.4 Estimated Settlement**

Settlement of pile supported footings and slabs constructed in single, widely, spaced rows, or in clusters of up to 4 to 6 piles is estimated to be 1 inch or less for the provided capacities and tip depths. These values assume piles are driven to the specified tip depths and not loaded greater than the stated allowable carrying capacities.

**6.5 Pile Driving**

In general, driving of treated timber piles having 6 to 7 inch diameter tips and 8 to 12 inch diameter butts (traditional Class B piles) should be limited to the rate of 25 blows per foot using a Vulcan No. 1 hammer, or equivalent.

Predrilling for pile installation does not appear necessary. However, predrilling may be used to reduce vibrations. If necessary, predrilling should be made with a bit that is no larger than 85% of the pile's tip diameter and should not penetrate to within 10 feet of the pile's design tip depth.

**6.6 Probe Piles and Pile Load Tests**

As stated previously, it is recommended that probe type piles be installed at the site to establish installation characteristics and pile lengths. The probe piles should be of the same type and size as the job piles and should be installed with the same equipment and techniques that will be used to install the job piles.

We recommend the probe piles be allowed to set for a period of 14 days and at least one of the probe piles be tested to failure in accordance with ASTM D 1143. Gulf South should be retained to evaluate and verify the estimated pile load capacities.

**6.7 Vibrations**

Vibrations due to construction activities should be expected and they should be monitored during all construction activities. In general, vibrations should be limited to about 0.25 inch/sec. (average peak particle velocity) at all existing nearby sensitive structures. Construction should be stopped if peak values exceed about 0.5 in./sec.

**6.8 Site Preparation & Fill Materials**

Prior to construction, the foundation areas should be stripped of all vegetation, debris, soft or loose surface soils, deleterious materials, etc., and should be well drained. If fill is needed, the area should be brought to grade using a clean, select, fill material free from debris or organic matter.

A cohesionless soil described as clean sand with less than 10% passing the U.S. No. 200 Sieve may be used for fill. Alternatively, a lean, silty or sandy clay (CL - USCS Classification) may be used for fill. The clay fill should have a Liquid Limit of less than 40 and a Plasticity Index (PI) of less than 20.

**6.9 Fill Placement and Compaction**

Fill should be placed in 10 to 12 inch loose lifts. Minimum compaction criteria of a dry density at least equal to 95% of its maximum, as determined by the Standard Proctor compaction test (ASTM D698), should be used for fill that will support foundations.

**7.0 PAVEMENTS**

Rigid (concrete) surface paving for roadways and parking will be constructed at the site. Based upon our understanding of the proposed facility usage, we anticipate that the paved areas will be used primarily by automobiles and light trucks with an occasional passage of a delivery type vehicle and/or garbage collection vehicle.

The subgrade should first be prepared in accordance with the recommendations of this report. Base course and pavement materials should conform to the requirements of LA DOTD Standard Specifications, latest edition.

**7.1 Rigid Pavement**

The pavement surface for driveway and parking areas or areas that will experience low traffic volumes should consist of at least five (5) inches of concrete. The dumpster pad area and areas subjected to heavy traffic should consist of at least seven (7) inches of concrete.

A minimum six (6) inch thick layer of sand fill is recommended for the base course. Geotextile fabric should be placed beneath the pavement joints.

The provided concrete thickness assumes an ultimate flexural strength for the concrete of at least 600 psi or 4,000 psi compressive strength. Expansion and construction joints should be doweled or keyed for good transfer of load and should be well sealed to prevent the intrusion or surface waters into the pavement base and natural subgrade.

**7.2 Pavement Materials and Construction**

Poor site conditions will develop unless good drainage is provided throughout the project duration. Proper site drainage should be maintained prior to, during, and after construction. Providing drainage during the construction process will facilitate construction by reducing the potential for compaction problems. Maintaining the drainage after construction will improve the life of the pavement by avoiding water softening of the foundation soils.

Prior to pavement construction, the site should be stripped of all debris, vegetation, etc., and proof rolled with a heavy wheeled vehicle to detect any “soft” spots. Any soft spots should be undercut at least 1 foot and backfilled with a structural sand fill. The geotextile fabric should be a nonwoven fabric with an apparent opening size (AOS) smaller than a U.S. No. 70 sieve.

## MURRAY ARCHITECTS

The sand base should consist of cohesionless soil with less than 10 percent passing the No. 200 Sieve and should be compacted to a dry density at least equal to 95 percent of its maximum as determined by the Modified Proctor compaction test (ASTM D1557), or to a minimum relative density of 75 percent in accordance with ASTM D4253 and D4254. In-place density measurements should be taken to assure that this degree of compaction is achieved.

The methods, means, and sequence of construction are the responsibility of the contractor. It should be noted that our recommendations regarding concrete and material thicknesses are based on assumed traffic loading conditions. Appropriate measures should be taken by the contractor to assure the integrity and performance of the pavements during and after construction.

### **8.0 CLOSING**

Gulf South is available to answer any questions you may have concerning this report. Should additional analyses be required or requested, additional fees may be necessary.

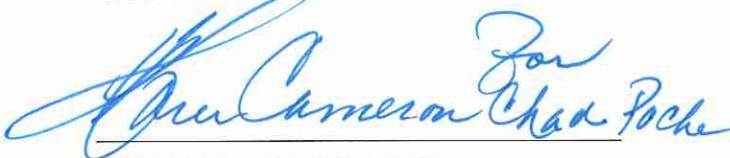
As previously discussed, Gulf South considers the materials testing and onsite inspection during construction an extension of our geotechnical investigation. Gulf South should be retained to provide the construction inspection services.

**MURRAY ARCHITECTS**

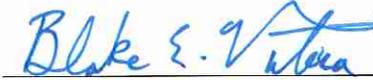
We appreciate the opportunity to provide this report and look forward to working with you again in the future.

Sincerely,

**GULF SOUTH ENGINEERING AND TESTING, INC.**



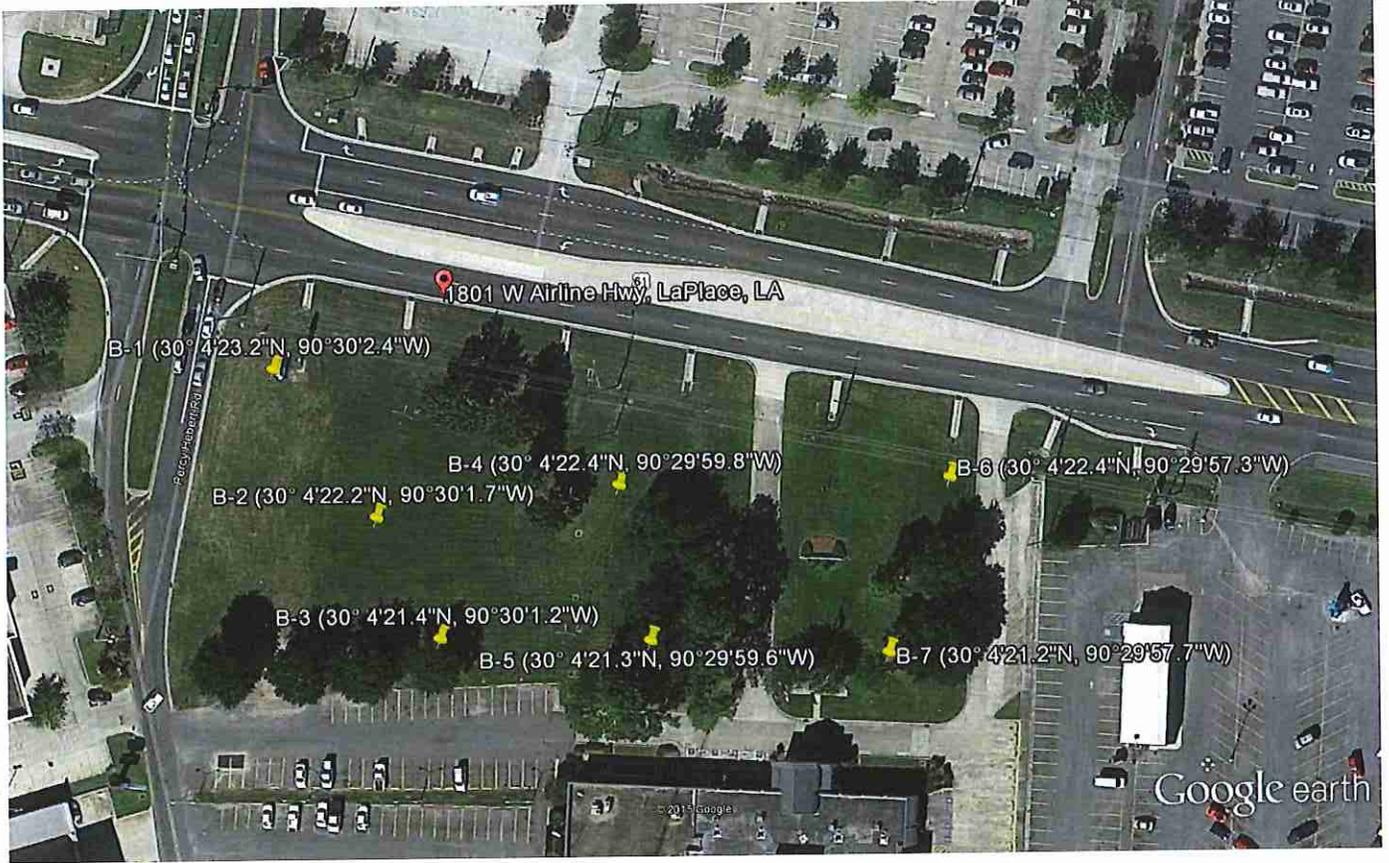
CHAD M. POCHE, P.E.  
Principal/Vice President



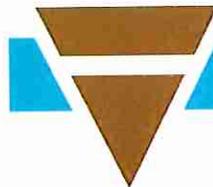
BLAKE E. VUTERA, P.E.  
Geotechnical Engineer



# FIGURES



Gulf South File 15-044



**GULF SOUTH**

ENGINEERING AND TESTING, INC.  
Geotechnical & Materials Consultants

**SJBP- New Government  
Complex  
1801 LA Hwy. 61  
LaPlace, LA**

**For  
SJBP Council c/o  
Murray Architects  
Destrehan, LA**

**BORING PLAN**

**Figure No. 1**

# GEOTECHNICAL INVESTIGATION

ST. JOHN THE BAPTIST PARISH  
NEW GOVERNMENT COMPLEX  
1801 LA HWY. 61  
LAPLACE, LOUISIANA

*GULF SOUTH ENGINEERING AND TESTING PROJECT NO. 15-044*

## ALLOWABLE PILE LOAD CAPACITIES

### *DRIVEN, TREATED, TIMBER PILES*

PILE TYPE AND SIZE (ASTM D25)	PILE TIP EMBEDMENT BELOW GROUND SURFACE IN FEET	ESTIMATED ALLOWABLE SINGLE PILE LOAD CAPACITIES IN TONS COMPRESSION FACTOR OF SAFETY = 2 TENSION FACTOR OF SAFETY = 3	
		COMPRESSION	TENSION
6-Inch Tip Diameter (8-inch Butt Diameter)	35 to 40*	15	10
	45	12	8
7-Inch Tip Diameter (12-inch Butt Diameter)	35 to 40*	18	12
	45	14	9
	50	15	10

\* Pile capacities assumes pile is driven to refusal within the sand soils encountered at these approximate depths.

### Minimum Pile/Shaft Spacing

$$SP = 0.05 L_1 + 0.025 L_2 + 0.0125 L_3$$

SP (ft.) = Center to center spacing of piles/shafts = (Min. 3.0 ft.)

$L_1$  = Pile/Shaft penetration in ft. up to 100 ft.

$L_2$  = Pile/Shaft penetration in ft. from 101 to 200 ft.

$L_3$  = Pile/Shaft penetration in ft. from 201 to 300 ft.

### Allowable Group Capacity\*

$$Q_a = \frac{P * L * c}{FSF} + \frac{2.6 * q_u * (1 + 0.2 w/b) * A}{FSB}$$

P = Average perimeter of pile/shaft group (ft.)

L = Length of piles/shafts in group (ft.)

c = Average (weighted) shear strength ( $\frac{1}{2} q_u$ ) of soil throughout pile/shaft length (lbs./sq. ft.)

$q_u$  = Unconfined compressive strength of soils below pile tips (lbs./sq.ft.)

w = Width of pile/shaft group at tip (ft.)

b = Length of pile/shaft group at tip (ft.)

A = Area of pile/shaft group at tip (sq. ft.)

FSF = Factor of safety for friction area = 2

FSB = Factor of safety for tip area = 3

\*In no case should the cumulative single pile/shaft load capacity of the group be exceeded.

# **APPENDIX**

## **BORING LOGS**

**Boring No. B-1**

**Project:** St. John the Baptist Parish  
New Government Complex  
1801 LA Hwy. 61

**GSE&T File No.:** 15-044  
**Date:** 8/25/2015

**Location:** LaPlace, LA

**Technician:** T.Binder

**Client:** STJBP c/o Murray Architects  
Destrehan, LA

**Rig Type:** ATV

**Driller:** TRI

**Page:** 1 of 2

Depth (Feet)	Sample	(Field Test) PP/SPT	Comp. Strength (tsf)	Water Content (%)	Wet Density (pcf)	LL (%)	PI (%)	Passing No. 200 (%)	TYPE	Coord.: 30° 4' 23.2" N; 90° 30' 2.4" W
0		3.75 (PP)		17.3	115	38	15			Stiff to Very Stiff gray SILTY CLAY (CL) with roots, gravel, trace sand
		1.00(PP)	1.131	25.0	121					
5		0.50 (PP)	0.426	38.6	117					Soft gray SILTY CLAY (CL) with sand
		0.50 (PP)	0.415	38.7	120					
		0.50 (PP)	0.392	40.4	116					
10		0.50 (PP)	0.340	34.6	120					
15		1.00 (PP)	1.004	29.0	119					Stiff gray CLAY (CH) with trace silt
20		0.75 (PP)		32.3						Soft to Medium Stiff gray CLAY (CH) with silt seams, trace sand pockets
		1.00 (PP)	0.557	46.3	112					
25		0.75 (PP)	0.746	37.8	118					
30										
		0.25 (PP)		31.2				30.9		Very Loose to Loose dark gray CLAYEY SAND (SC) with clay layers
35		37 b/f (15-10-27)		40.3						Medium Dense to Dense dark gray CLAYEY SAND (SC)
		20 b/f (9-9-11)		24.5						
40										

**Sample Legend:**

-  Core (Shelby Tube)
-  Standard Penetration (SPT)
-  No Recovery
-  Auger Sample

**Comments/Notes:**

- Borehole backfilled per LA DOTD & LA DEQ requirements upon completion
- Dry Auger Depths = 0-8 ft.
- Rotary Wash Depths = 8-50 ft.
- Ground water = 5.75 ft. b.g.s.. After 15 minutes, rise to 4.75 ft. detected



**Boring No. B-1**

**Project:** St. John the Baptist Parish  
 New Government Complex  
 1801 LA Hwy. 61  
**Location:** LaPlace, LA  
**Client:** STJBP c/o Murray Architects  
 Destrehan, LA

**GSE&T File No.:** 15-044  
**Date:** 8/25/2015  
**Technician:** T.Binder  
**Rig Type:** ATV  
**Driller:** TRI  
**Page:** 2 of 2

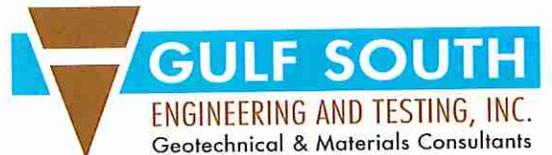
Depth (Feet)	Sample	(Field Test) PP/SPT	Comp. Strength (tsf)	Water Content (%)	Wet Density (pcf)	LL (%)	PI (%)	Passing No. 200 (%)	Type	Coord.: 30° 4' 23.2" N; 90° 30' 2.4" W
										Description of Stratum
40										Medium Dense to Dense dark gray CLAYEY SAND (SC)
45	X	22 b/f (12-8-14)		44.2						
50	■	0.75 (PP)	1.117	65.8	101					Stiff gray CLAY (CH)
50										Boring completed at 50 feet below ground surface
55										
60										
65										
70										
75										
80										

**Sample Legend:**

-  Core (Shelby Tube)
-  Standard Penetration (SPT)
-  No Recovery
-  Auger Sample

**Comments/Notes:**

- Borehole backfilled per LA DOTD & LA DEQ requirements upon completion
- Dry Auger Depths = 0-8 ft.
- Rotary Wash Depths = 8-50 ft.
- Ground water = 5.75 ft. b.g.s.. After 15 minutes, rise to 4.75 ft. detected



**Boring No. B-2**

**Project:** St. John the Baptist Parish  
 New Government Complex  
 1801 LA Hwy. 61  
**Location:** LaPlace, LA  
**Client:** STJBP c/o Murray Architects  
 Destrehan, LA

**GSE&T File No.:** 15-044  
**Date:** 8/25/2015  
**Technician:** T.Binder  
**Rig Type:** ATV  
**Driller:** TRI  
**Page:** 1 of 2

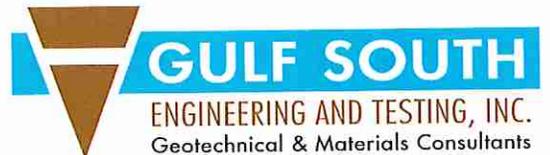
Depth (Feet)	Sample	(Field Test) PP/SPT	Comp. Strength (tsf)	Water Content (%)	Wet Density (pcf)	LL (%)	PI (%)	Passing No. 200 (%)	Type	Coord.: 30° 4' 22.2" N; 90° 30' 1.7" W
										Description of Stratum
0		4.00 (PP)	0.789	18.2	119					Medium Stiff tan and gray SILTY CLAY (CL) with gravel, wood, trace sand
		1.25 (PP)	0.946	31.9	119	46	23			
5		0.75 (PP)	0.431	30.6	124					Soft gray SILTY CLAY with sand, trace wood
		0.75 (PP)	0.338	33.6	119					
		0.50 (PP)	0.486	30.6	120					
10		0.50 (PP)	0.287	36.7	113					
15		0.25 (PP)	0.874	35.9	120					Medium Stiff gray CLAY (CH)
		0.75 (PP)	0.533	43.4	116					
25		0.50 (PP)	0.641	33.3	117					
30		0.25 (PP)		23.7				44.9		Very Loose to Loose dark gray CLAYEY SAND (SC) with silt
		47 b/f (10-22-25)		24.3				35.6		Dense dark gray CLAYEY SAND (SC) with silt
		37 b/f (9-17-20)		24.9						
35		40 b/f (10-24-16)		24.1						
40		W.O.H. (0-0-0)		34.7				75.1		Very Soft dark gray CLAY (CH) with sand

**Sample Legend:**

-  Core (Shelby Tube)
-  Standard Penetration (SPT)
-  No Recovery
-  Auger Sample

**Comments/Notes:**

- Borehole backfilled per LA DOTD & LA DEQ requirements upon completion
- Dry Auger Depths = 0-8 ft.
- Rotary Wash Depths = 8-50 ft.
- Ground water = 4.75 ft. b.g.s.. After 15 minutes, rise to 4.25 ft. detected



**Boring No. B-2**

**Project:** St. John the Baptist Parish  
New Government Complex  
1801 LA Hwy. 61

**GSE&T File No.:** 15-044  
**Date:** 8/25/2015  
**Technician:** T.Binder  
**Rig Type:** ATV  
**Driller:** TRI  
**Page:** 2 of 2

**Location:** LaPlace, LA

**Client:** STJBP c/o Murray Architects  
Destrehan, LA

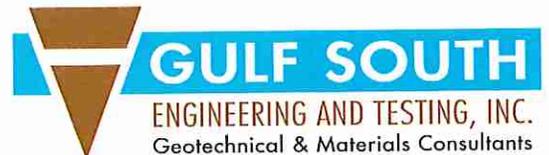
Depth (Feet)	Sample	(Field Test) PP/SPT	Comp. Strength (tsf)	Water Content (%)	Wet Density (pcf)	LL (%)	PI (%)	Passing No. 200 (%)	TYPE	Coord.: 30° 4' 22.2" N; 90° 30' 1.7" W
										Description of Stratum
40										Very Soft dark gray CLAY (CH) with sand
45		0.50 (PP)	0.841	55.0	104					Medium Stiff gray CLAY (CH) with trace silt
50		0.50 (PP)	0.811	63.7	102					Boring completed at 50 feet below ground surface
55										
60										
65										
70										
75										
80										

**Sample Legend:**

-  Core (Shelby Tube)
-  Standard Penetration (SPT)
-  No Recovery
-  Auger Sample

**Comments/Notes:**

- Borehole backfilled per LA DOTD & LA DEQ requirements upon completion
- Dry Auger Depths = 0-8 ft.
- Rotary Wash Depths = 8-50 ft.
- Ground water = 4.75 ft. b.g.s.. After 15 minutes, rise to 4.25 ft. detected



**Boring No. B-3**

**Project:** St. John the Baptist Parish  
 New Government Complex  
 1801 LA Hwy. 61  
**Location:** LaPlace, LA  
**Client:** STJBP c/o Murray Architects  
 Destrehan, LA

**GSE&T File No.:** 15-044  
**Date:** 8/25/2015  
**Technician:** T.Binder  
**Rig Type:** ATV  
**Driller:** TRI  
**Page:** 1 of 2

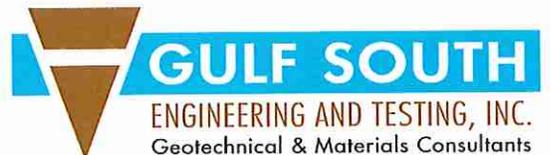
Depth (Feet)	Sample	(Field Test) PP/SPT	Comp. Strength (tsf)	Water Content (%)	Wet Density (pcf)	LL (%)	PI (%)	Passing No. 200 (%)	TYPE	Coord.: 30° 4' 21.4" N; 90° 30' 1.2" W
0		1.00 (PP)	1.259	18.0	118					Medium Stiff to Stiff tan and gray SILTY CLAY (CL) with sand, roots, grave, trace shell
		0.75 (PP)	0.749	26.3	117					
5		0.50 (PP)	0.434	34.5	128					Soft to Medium Stiff gray and tan SILTY CLAY (CL) with wood with sand
		0.75 (PP)	0.846	25.4	129					
		0.50 (PP)		24.2						
10										Stiff dark gray CLAY (CH) with silt with sand
		1.00 (PP)	1.092	28.8	122					
15		1.50 (PP)		32.2						
20		0.50 (PP)	0.366	31.4	118					Soft gray and tan CLAY (CH)
		1.75 (PP)		45.5						
25										Soft gray SANDY CLAY (CH) with clay layers, trace shell, silt
		0.50 (PP)	0.431	33.1	116			61.6		
30										Very soft dark gray SANDY CLAY (CL) with clay layers with gravel
	X	W.O.H. (0-0-0)		32.4				65.8		
40	X	W.O.H. (0-0-0)		55.4						

**Sample Legend:**

-  Core (Shelby Tube)
-  Standard Penetration (SPT)
-  No Recovery
-  Auger Sample

**Comments/Notes:**

- Borehole backfilled per LA DOTD & LA DEQ requirements upon completion
- Dry Auger Depths = 0-8 ft.
- Rotary Wash Depths = 8-50 ft.
- Ground water = 7 ft. b.g.s.. After 15 minutes, rise to 4.5 ft. detected



**Boring No. B-3**

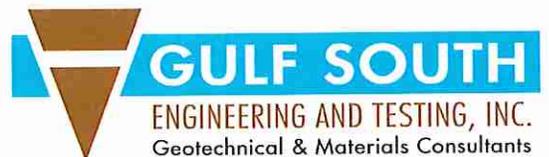
**Project:** St. John the Baptist Parish  
 New Government Complex  
 1801 LA Hwy. 61  
**Location:** LaPlace, LA  
**Client:** STJBP c/o Murray Architects  
 Destrehan, LA

**GSE&T File No.:** 15-044  
**Date:** 8/25/2015  
**Technician:** T.Binder  
**Rig Type:** ATV  
**Driller:** TRI  
**Page:** 2 of 2

Depth (Feet)	Sample	(Field Test) PP/SPT	Comp. Strength (tsf)	Water Content (%)	Wet Density (pcf)	LL (%)	PI (%)	Passing No. 200 (%)	TYPE	Coord.: 30° 4' 21.4" N; 90° 30' 1.2" W
										Description of Stratum
40										Very soft dark gray SANDY CLAY (CL) with clay layers
45		1.00 (PP)	0.845	67.1	103					Medium Stiff gray CLAY (CH) with trace shell
50		2.00 (PP)		41.2						Stiff to Very Stiff tan SILTY CLAY (CL)
50										Boring completed at 50 feet below ground surface
55										
60										
65										
70										
75										
80										

**Sample Legend:**  
 Core (Shelby Tube)  
 Standard Penetration (SPT)  
 No Recovery  
 Auger Sample

**Comments/Notes:**  
 - Borehole backfilled per LA DOTD & LA DEQ requirements upon completion  
 - Dry Auger Depths = 0-8 ft.  
 - Rotary Wash Depths = 8-50 ft.  
 - Ground water = 7 ft. b.g.s.. After 15 minutes, rise to 4.5 ft. detected



**Boring No. B-4**

**Project:** St. John the Baptist Parish  
New Government Complex  
1801 LA Hwy. 61

**GSE&T File No.:** 15-044  
**Date:** 8/25/2015  
**Technician:** T.Binder  
**Rig Type:** ATV  
**Driller:** TRI  
**Page:** 1 of 1

**Location:** LaPlace, LA

**Client:** STJBP c/o Murray Architects  
Destrehan, LA

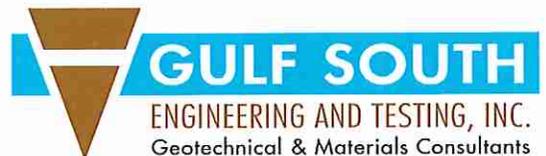
Depth (Feet)	Sample Type	(Field Test) PP/SPT	Comp. Strength (tsf)	Water Content (%)	Wet Density (pcf)	LL (%)	PI (%)	Passing No. 200 (%)	TYPE	Coord.: 30° 4' 22.4" N; 90° 29' 59.8" W
										Description of Stratum
0		4.00 (PP)		23.6						Stiff to Very Stiff gray SILTY CLAY (CL)
		0.50 (PP)	0.437	27.4	117					Soft brown and gray SILTY CLAY (CL) with trace organics
5		0.75 (PP)		37.2						
										Boring completed at 6 feet below ground surface
10										
15										
20										
25										
30										
35										
40										

**Sample Legend:**

-  Core (Shelby Tube)
-  Standard Penetration (SPT)
-  No Recovery
-  Auger Sample

**Comments/Notes:**

- Borehole backfilled per LA DOTD & LA DEQ requirements upon completion
- Dry Auger Depths = 0-6 ft.
- Rotary Wash Depths = n/a
- Ground water = 5.5 ft. b.g.s.. After 15 minutes, rise to 4 ft. detected



**Boring No. B-5**

**Project:** St. John the Baptist Parish  
 New Government Complex  
 1801 LA Hwy. 61  
**Location:** LaPlace, LA  
**Client:** STJBP c/o Murray Architects  
 Destrehan, LA

**GSE&T File No.:** 15-044  
**Date:** 8/25/2015  
**Technician:** T.Binder  
**Rig Type:** ATV  
**Driller:** TRI  
**Page:** 1 of 1

Depth (Feet)	Sample	(Field Test) PP/ SPT	Comp. Strength (tsf)	Water Content (%)	Wet Density (pcf)	LL (%)	PI (%)	Passing No. 200 (%)	TYPE	Coord.: 30° 4' 21.3" N; 90° 29' 59.6" W
										Description of Stratum
0		1.00 (PP)		15.1	110					Medium Stiff to Stiff brown SILTY CLAY (CL) with roots
		0.50 (PP)	0.337	30.6	123	37	21			Soft brown and dark gray SILTY CLAY (CL) with trace organics
5		0.25 (PP)		32.6						
										Boring completed at 6 feet below ground surface
10										
15										
20										
25										
30										
35										
40										

**Sample Legend:**

-  Core (Shelby Tube)
-  Standard Penetration (SPT)
-  No Recovery
-  Auger Sample

**Comments/Notes:**

- Borehole backfilled per LA DOTD & LA DEQ requirements upon completion
- Dry Auger Depths = 0-6 ft.
- Rotary Wash Depths = n/a
- Ground water = 3.75 ft. b.g.s.. After 15 minutes, rise to 3.25 ft. detected



**Boring No. B-6**

**Project:** St. John the Baptist Parish  
New Government Complex  
1801 LA Hwy. 61

**GSE&T File No.:** 15-044  
**Date:** 8/25/2015  
**Technician:** T.Binder  
**Rig Type:** ATV  
**Driller:** TRI  
**Page:** 1 of 1

**Location:** LaPlace, LA

**Client:** STJBP c/o Murray Architects  
Destrehan, LA

Depth (Feet)	Sample	(Field Test) PP/ SPT	Comp. Strength (tsf)	Water Content (%)	Wet Density (pcf)	LL (%)	PI (%)	Passing No. 200 (%)	TYPE	Coord.: 30° 4' 22.4" N; 90° 29' 57.3" W
										Description of Stratum
0		1.25 (PP)		19.0		39	22			Medium Stiff to Stiff brown SILTY CLAY (CL)
		0.25 (PP)	0.385	24.9	112					Soft brown and dark gray SILTY CLAY (CL) with trace roots
5		0.25 (PP)		34.9						
										Boring completed at 6 feet below ground surface
10										
15										
20										
25										
30										
35										
40										

**Sample Legend:**

-  Core (Shelby Tube)
-  Standard Penetration (SPT)
-  No Recovery
-  Auger Sample

**Comments/Notes:**

- Borehole backfilled per LA DOTD & LA DEQ requirements upon completion
- Dry Auger Depths = 0-6 ft.
- Rotary Wash Depths = n/a
- Ground water = 3.25 ft. b.g.s.. After 15 minutes, rise to 3 ft. detected



**Boring No. B-7**

**Project:** St. John the Baptist Parish  
New Government Complex  
1801 LA Hwy. 61

**GSE&T File No.:** 15-044  
**Date:** 8/25/2015  
**Technician:** T.Binder  
**Rig Type:** ATV  
**Driller:** TRI  
**Page:** 1 of 1

**Location:** LaPlace, LA

**Client:** STJBP c/o Murray Architects  
Destrehan, LA

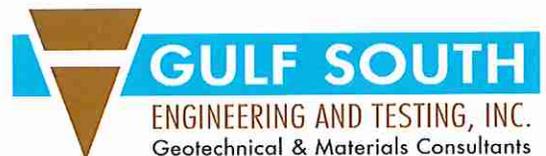
Depth (Feet)	Sample	(Field Test) PP/ SPT	Comp. Strength (tsf)	Water Content (%)	Wet Density (pcf)	LL (%)	PI (%)	Passing No. 200 (%)	TYPE	Coord.: 30° 4' 21.2" N; 90° 29' 57.7" W
										Description of Stratum
0	[Solid Black Box]	1.25 (PP)	0.979	37.5	119					Medium Stiff Brown and dark gray SILTY CLAY (CL)
1.50 (PP)		26.3								
2.00 (PP)		31.4								
5										Boring completed at 6 feet below ground surface
10										
15										
20										
25										
30										
35										
40										

**Sample Legend:**

-  Core (Shelby Tube)
-  Standard Penetration (SPT)
-  No Recovery
-  Auger Sample

**Comments/Notes:**

- Borehole backfilled per LA DOTD & LA DEQ requirements upon completion
- Dry Auger Depths = 0-6 ft.
- Rotary Wash Depths = n/a
- Ground water = 4.25 ft. b.g.s.. After 15 minutes, rise to 3.5 ft. detected



## SOIL BORING LOG - DESCRIPTION OF TERMS AND SYMBOLS

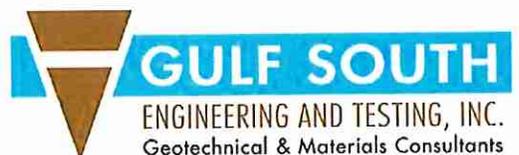
Depth (Feet)	Sample	Field Test (PP or SPT)	Comp. Strength (tsf)	Water Content (%)	Wet Density (pcf)	Atterberg Limits		Type	Description of Stratum
						LL (%)	PI (%)		
0									Field Test (PP or SPT): Pocket penetrometer (PP) results in tsf or standard penetration test (SPT) results
5	-- Core (Shelby Tube)								Comp. Strength: Value based on peak strength in tsf determined by an unconfined compressive strength test unless noted otherwise
10	X 15 b/f (7-6-9)								Water Content (%): As determined in general accordance with ASTM D2216
10	-- No Recovery								Wet Density (PCF): As determined in general accordance with ASTM D2937
15	-- Auger Sample								Atterberg Limits (LL and PI): Atterberg limits as determined in general accordance with ASTM D4318. LL = Liquid Limit; PI = Plasticity Index (LL-PI)
20									Description of Stratum: Classifications are based on visual observations and laboratory test results (where available) as well as judgment by a geotechnical engineer (where appropriate)
25								Type: Misc. Fill - limestone, bricks, broken concrete, etc.	Type: USCS Classification - High plasticity clay (CH)
30								Type: USCS Classification - Low plasticity clay (CL)	Type: USCS Classification - Low or high plasticity silt (ML or MH)
35								Type: USCS Classification - Silty or clayey sand or gravel, well graded or poorly graded sand or gravel (SM, SC, SW, SP, GM, GC, GW, GP)	Type: USCS Classification - Organic clay or silt, peat (OL, OH, PT)
40									

**Sample Legend:**

- Core (Shelby Tube)
- Standard Penetration Test (SPT)
- No Recovery
- Auger Sample

**Comments/Notes:**

General notes or comments regarding boring and data





# **GULF SOUTH**

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**SECTION 08 4523 – KALWALL**

**PART 1 - GENERAL**

**1.1 SUMMARY**

- A. Section includes the insulated translucent sandwich panel system and accessories, factory unitized, as shown and specified. Work includes providing and installing:
  - 1. Flat factory prefabricated structural insulated translucent sandwich panels.
  - 2. Aluminum installation system.
  - 3. Aluminum sill flashing.
  - 4. Therstrip linear metal pans and suspension systems for ceilings.
- B. Related Sections:
  - 1. Division 09 Section "Acoustical Panel Ceilings" for ceilings consisting of mineral-base and glass-fiber-base acoustical panels and exposed suspension systems.
- C. Products furnished, but not installed under this Section, include anchors, clips, and other ceiling attachment devices to be cast in concrete at ceilings.

**1.2 DEFINITIONS**

- A. LR: Light Reflectance coefficient.
- B. NRC: Noise Reduction Coefficient.

**1.3 PERFORMANCE REQUIREMENTS**

- A. Structural Performance: Exterior linear metal ceilings shall withstand exterior exposure and the effects of gravity loads and the following loads and stresses without showing permanent deformation of ceiling system components including pans and suspension system; noise or metal fatigue caused by vibration, deflection, and displacement of ceiling units; or permanent damage to fasteners and anchors.
  - 1. Wind Load: Uniform pressure of 40 lbf/sq. ft., acting inward or outward.
- B. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes. Base calculations on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.
  - 1. Temperature Change (Range): 120 deg F, ambient; 180 deg F, material surfaces.

**1.4 SUBMITTALS**

- A. Product Data: For each type of product indicated.

- B. Performance Data: For installed products indicated to comply with design loads and other criteria, include structural analysis and other analytical data signed and sealed by the qualified professional engineer responsible for their preparation.
- C. Samples for Verification: For each component indicated and for each exposed finish required, prepared on Samples of size indicated below:
  - 1. Linear Metal Pan: Set of 12-inch- long Samples of each type and color and a 12-inch- long spliced section.
  - 2. Suspension System Members: 12-inch- long Sample of each type.
  - 3. Exposed Molding and Trim: Set of 12-inch- long Samples of each type, finish, and color.
  - 4. Filler Strips: Set of 12-inch- long Samples of each type, finish, and color.
  - 5. End Cap: Full size.
- D. Coordination Drawings: Reflected ceiling plans, drawn to scale, on which the following items are shown and coordinated with each other, using input from installers of the items involved:
  - 1. Linear pattern.
  - 2. Joint pattern.
  - 3. Ceiling suspension members.
  - 4. Method of attaching hangers to building structure.
  - 5. Ceiling-mounted items including light fixtures, diffusers, grilles, speakers, sprinklers, and access panels.
  - 6. Ceiling perimeter and penetrations through ceiling; trim and moldings.
  - 7. Minimum Drawing Scale: 1/4 inch = 1 foot.
- E. Maintenance Data: For finishes to include in maintenance manuals.

## 1.5 QUALITY ASSURANCE

- A. Source Limitations: Obtain each set of linear metal pans and suspension systems from one source with resources to provide products of consistent quality in appearance, physical properties, and performance.
- B. Surface-Burning Characteristics: Complying with ASTM E 1264 for Class A materials, as determined by testing identical products according to ASTM E 84 by UL or another testing and inspecting agency acceptable to authorities having jurisdiction.
- C. Seismic Standard: Provide linear metal ceilings designed and installed to withstand the effects of earthquake motions according to the following:
  - 1. Standard for Ceiling Suspension Systems Requiring Seismic Restraint: Comply with ASTM E 580.
  - 2. CISCA's Recommendations for Acoustical Ceilings: Comply with CISCA's "Recommendations for Direct-Hung Acoustical Tile and Lay-in Panel Ceilings - Seismic Zones 0-2."

3. CISCA's Guidelines for Systems Requiring Seismic Restraint: Comply with CISCA's "Guidelines for Seismic Restraint of Direct-Hung Suspended Ceiling Assemblies - Seismic Zones 3 & 4."
4. UBC Standard 25-2, "Metal Suspension Systems for Acoustical Tile and for Lay-in Panel Ceilings."
5. SEI/ASCE 7, "Minimum Design Loads for Buildings and Other Structures": Section 9, "Earthquake Loads."

#### **1.6 DELIVERY, STORAGE, AND HANDLING**

- A. Deliver linear metal pans, suspension system components, and accessories to Project site in original, unopened packages and store them in a fully enclosed, conditioned space where they will be protected against damage from moisture, humidity, temperature extremes, direct sunlight, surface contamination, and other causes.
- B. Handle linear metal pans, suspension system components, and accessories carefully to avoid damaging units and finishes in any way.

#### **1.7 PROJECT CONDITIONS**

- A. Environmental Limitations: Do not install linear metal ceilings until spaces are enclosed and weathertight, wet work in spaces is complete and dry, work above ceilings is complete, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.

#### **1.8 COORDINATION**

- A. Coordinate layout and installation of linear metal pans and suspension system with other construction that penetrates ceilings or is supported by them, including light fixtures, HVAC equipment, fire-suppression system, and partition assemblies.

### **PART 2 - PRODUCTS**

#### **2.1 LINEAR METAL CEILING PANS**

- A. Acoustical Metal Pan Standard: Provide manufacturer's standard linear metal pans of configuration indicated that comply with ASTM E 1264 classifications as designated by types, acoustical ratings, and light reflectances unless otherwise indicated.
  1. Mounting Method for Measuring NRC: Type E-400; plenum mounting in which face of test specimen is 15-3/4 inches away from test surface per ASTM E 795.
- B. Sheet Metal Characteristics: For metal components exposed to view in the completed Work, provide materials with smooth, flat surfaces without blemishes. Do not use materials with exposed pitting, seam marks, roller marks, roughness, stains, or discolorations.

1. Steel Sheet: Commercial-quality, cold-rolled, carbon-steel sheet; stretcher leveled; with protective coating complying with ASTM C 635.
  - a. Painted Finishes: Electrolytic zinc-coated steel complying with ASTM A 591/A 591M, 40Z coating; surface treatment as recommended by finish manufacturer for type of use and finish indicated.
- C. Pan Fabrication: Manufacturer's standard units of size, profile, and edge treatment indicated, formed from metal indicated to snap on and be securely retained on carriers without separate fasteners, and finished to comply with requirements indicated.
- D. Pan Splices: Construction same as pans, in lengths 8 to 12 inches; with manufacturer's standard finish.
- E. End Caps: Manufacturer's standard material; fabricated to fit and conceal exposed ends of pans.
- F. Filler Strips: Manufacturer's standard material; fabricated to uninterruptedly close voids between pans.
- G. Moldings and Trim: Provide manufacturer's standard moldings and trim for exposed members, and as indicated or required, for edges and penetrations of ceiling, around fixtures, at changes in ceiling height, and for other conditions; of same metal and finish as linear metal ceiling pans.
- H. Sound-Absorbent Fabric Layer: Provide fabric layer, sized to fit concealed surface of pan, and consisting of black, nonwoven, nonflammable, sound-absorbent material with surface-burning characteristics for flame-spread index of 25 or less and smoke-developed index of 50 or less, as determined by testing per ASTM E 84.
  1. Bond fabric layer to pan in the factory with manufacturer's standard nonflammable adhesive.

## 2.2 METAL SUSPENSION SYSTEMS

- A. Metal Suspension Systems Standard: Provide ceiling manufacturer's standard metal suspension systems of types and finishes indicated that comply with applicable ASTM C 635 requirements.
- B. Suspension Systems: Provide systems complete with carriers, splice sections, connector clips, alignment clips, leveling clips, hangers, molding, trim, retention clips, load-resisting struts, fixture adapters, and other suspension components required to support ceiling units and other ceiling-supported construction.
- C. Attachment Devices: Size for five times the design load indicated in ASTM C 635, Table 1, Direct Hung, unless otherwise indicated.

- D. Wire Hangers, Braces, and Ties: Provide wire complying with the following requirements:
1. Zinc-Coated, Carbon-Steel Wire: ASTM A 641/A 641M, Class 1 zinc coating, soft temper.
  2. Stainless-Steel Wire: ASTM A 580/A 580M, Type 304, nonmagnetic.
  3. Nickel-Copper-Alloy Wire: ASTM B 164, nickel-copper-alloy UNS No. N04400.
  4. Size: Select wire diameter so its stress at 3 times the hanger design load indicated in ASTM C 635, Table 1, Direct Hung will be less than yield stress of wire, but provide not less than 0.106-inch- diameter wire.
- E. Carriers: Factory finished with matte-black baked finish.
1. Flexible Radial Carriers: Manufacturer's standard radial carriers.
- F. Carrier Splices: Same metal, profile, and finish as indicated for carriers.
- G. Stabilizer Channels, Tees, and Bars: Manufacturer's standard components for stabilizing main carriers at regular intervals and at light fixtures, air-distribution equipment, access doors, and other equipment; spaced as standard with manufacturer for use indicated; and factory finished with matte-black baked finish.
- H. Exterior Bracing Channels and Angles: Cold-rolled steel, hot-dip galvanized to comply with ASTM A 653/A 653M, G60 coating designation; size and profile as required to withstand wind load.
- I. Edge Moldings and Trim: Provide exposed members as indicated or required to comply with seismic requirements of authorities having jurisdiction, to conceal edges of penetrations through ceiling, to conceal ends of pans and carriers, for fixture trim and adapters, for fasciae at changes in ceiling height, and for other conditions; of metal and finish matching linear metal pans or extruded plastic unless otherwise indicated.
1. For Circular Penetrations of Ceiling: Fabricate edge moldings to diameter required to fit penetration exactly.

## **2.3 STEEL PANS AND SUSPENSION SYSTEM FOR LINEAR METAL CEILING**

- A. Steel Pans and Suspension System:
1. Products: Subject to compliance with requirements, provide one of the following:
    - a. USG Interiors, Inc., Paraline 2 Aluminum (Silver Satin in color) with matching reveal, 4" pan and aluminum symmetrical carrier perforated with acoustical backer.
    - b. Or approved equal.

## **2.4 GENERAL FINISH REQUIREMENTS**

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- C. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

## **2.5 GALVANIZED-STEEL SHEET FINISHES**

- A. Color-Coated Finish: Manufacturer's standard powder-coat baked paint finish complying with coating manufacturer's written instructions for surface preparation, pretreatment, application, baking, and minimum dry film thickness.

## **PART 3 - EXECUTION**

### **3.1 EXAMINATION**

- A. Examine substrates, areas, and conditions, including structural framing and substrates to which linear metal ceilings attach or abut, with Installer present, for compliance with requirements specified in this and other Sections that affect ceiling installation and anchorage and with requirements for installation tolerances and other conditions affecting performance of linear metal ceilings.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

### **3.2 PREPARATION**

- A. Measure each ceiling area and establish layout of linear metal pans to balance border widths at opposite edges of each ceiling. Avoid using less-than-half-width or -length pans at borders, and comply with layout shown on reflected ceiling plans and Coordination Drawings.

### **3.3 INSTALLATION**

- A. Comply with ASTM C 636 and seismic requirement indicated, per manufacturer's written instructions and CISCA's "Ceiling Systems Handbook."
- B. Suspend ceiling hangers from building's structural members and as follows:
  - 1. Install hangers plumb and free from contact with insulation or other objects within ceiling plenum that are not part of supporting structure or of ceiling suspension system.
  - 2. Splay hangers only where required to miss obstructions; offset resulting horizontal forces by bracing, countersplaying, or other equally effective means.

3. Where width of ducts and other construction within ceiling plenum produces hanger spacings that interfere with location of hangers at spacings required to support standard suspension system members, install supplemental suspension members and hangers in form of trapezes or equivalent devices.
  4. Secure wire hangers to ceiling suspension members and to supports above with a minimum of three tight turns. Connect hangers directly either to structures or to inserts, eye screws, or other devices that are secure and appropriate for substrate to which hangers are attached and for type of hanger involved.
  5. Do not support ceilings directly from permanent metal forms or floor deck. Fasten hangers to cast-in-place hanger inserts, postinstalled mechanical or adhesive anchors, or power-actuated fasteners that extend through forms into concrete.
  6. When steel framing does not permit installation of hanger wires at spacing required, install carrying channels or other supplemental support for attachment of hanger wires.
  7. Do not attach hangers to steel deck tabs.
  8. Do not attach hangers to steel roof deck. Attach hangers to structural members.
  9. Space hangers not more than 48 inches o.c. along each member supported directly from hangers unless otherwise indicated; provide hangers not more than 8 inches from ends of each member.
  10. Size supplemental suspension members and hangers to support ceiling loads within performance limits established by referenced standards and publications.
- C. Secure bracing wires to ceiling suspension members and to supports with a minimum of four tight turns. Suspend bracing from building's structural members as required for hangers but without attaching to permanent metal forms, steel deck, or steel deck tabs. Fasten bracing wires into concrete with cast-in-place or postinstalled anchors.
- D. Install edge moldings and trim of type indicated at perimeter of linear metal ceiling area and where necessary to conceal edges and ends of linear metal pans.
1. Screw attach moldings to substrate at intervals not more than 16 inches o.c. and not more than 3 inches from ends, leveling with ceiling suspension system to a tolerance of 1/8 inch in 12 feet. Miter corners accurately and connect securely.
  2. Do not use exposed fasteners, including pop rivets, on moldings and trim.
- E. Install suspension system carriers so they are aligned and securely interlocked with one another. Remove and replace dented, bent, or kinked members.
- F. Cut linear metal pans for accurate fit at borders and at interruptions and penetrations by other work through ceilings. Stiffen edges of cut units as required to eliminate evidence of buckling or variations in flatness exceeding referenced standards for stretcher-leveled metal sheet.
- G. Install linear metal pans in coordination with suspension system and exposed moldings and trim.

1. Align joints in adjacent courses to form uniform, straight joints parallel to room axis in both directions unless otherwise indicated.
2. Fit adjoining units to form flush, tight joints. Scribe and cut units for accurate fit at borders and around construction penetrating ceiling.
3. Install pans with butt joints using internal pan splices and in the following joint configuration:
  - a. Aligned.
  - b. Aligned, every other pan length.
  - c. Staggered a minimum of 12 inches.
  - d. Random.
  - e. As indicated.
4. Install directionally textured metal pans in directions indicated.
5. Where metal pan ends are visible, install end caps unless trim is indicated.
6. Install filler strips where indicated.
7. Install sound-absorbent fabric layers in perforated metal pans.

#### **3.4 CLEANING**

- A. Clean exposed surfaces of linear metal ceilings, including trim and edge moldings after removing strippable, temporary protective covering if any. Comply with manufacturer's written instructions for stripping of temporary protective covering, cleaning, and touchup of minor finish damage. Remove and replace ceiling components that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage, including dented and bent units.

**END OF SECTION 09 5423**

## **SECTION 08 3000 - SECTIONAL AND COILING OVERHEAD DOORS**

### **PART 1 GENERAL**

#### **1.1 SECTION INCLUDES**

- A. Coiling Counter Shutters.
- B. Coiling Counter Fire Shutters.

#### **1.2 RELATED SECTIONS**

- A. Section 05 1213 - Structural Metal Framing.
- B. Section 06 1053 - Rough Carpentry.
- C. Section 09 9123 - Paints and Coatings.

#### **1.3 REFERENCES**

- A. ASTM A480/A480M-04; 2004 - Standard Specification for Flat-Rolled Stainless and Heat-Resisting Steel Plate, Sheet, and Strip.
- B. ASTM A653/A653M-03; 2003 - Standard Specification for Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
- C. ASTM A666-00; 2000 - Standard Specification for Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.
- D. ASTM B209-04; 2004 - Standard Specification for Aluminum - Alloy Sheet and Plate.
- E. ASTM B221-02; 2002 - Standard Specification for Aluminum - Alloy Extruded Bars, Rods, Wires, Shapes and Tubes.
- F. National Fire Protection Association NFPA 80, 1999 Edition - Standard for Fire Doors and Fire Windows.
- G. Underwriters Laboratories (UL) 10B, 1997 Edition - Standard for Fire Tests of Door Assemblies.

#### **1.4 SUBMITTALS**

- A. Submit under provisions of Section 01 3300.
- B. Shop Drawings: Indicate opening dimensions and required tolerances, jamb connection details, anchorage spacing, hardware locations, installation details,

and special conditions.

- C. Provide information on components, application, hardware and accessories.
- D. Closeout Submittals:
  - 1. Operation and maintenance data.

### **1.5 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: Manufacturer shall provide a door system capable of withstanding positive and negative design loads as required by local building code.
- B. Installer Qualifications: Installer shall be authorized and qualified to install overhead door systems on the type and scope of project specified.

### **1.6 PERFORMANCE REQUIREMENTS**

- A. Fire Door Construction: Conform to UL 10B.
- B. Installed Fire Door Assembly: Conform to NFPA 80.
- C. Design doors to withstand positive and negative wind loads as calculated in accordance with applicable building code.
  - 1. Design Wind Load: 20 lb/sf.
  - 2. Test Wind Load: 1.5 times design wind load.

### **1.7 DELIVERY, STORAGE, AND HANDLING**

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store and dispose of all materials in accordance with federal, state and local laws.

### **1.8 PROJECT CONDITIONS**

- A. Maintain environmental conditions (temperature, humidity and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

### **1.9 WARRANTY**

- A. Provide an original of the manufacturer's limited warranty against manufacturing defects and product workmanship.
  - 1. Sectional Door Warranty: 10 Years.
  - 2. Rolling Steel Door Warranty: 5 Years.

## **PART 2 PRODUCTS**

## 2.1 MANUFACTURERS

- A. Acceptable Manufacturer: C.H.I. Overhead Doors, which is located at: 1485 Sunrise Dr. ; Arthur, IL 61911; Toll Free Tel: 800-590-0559; Fax: (217) 543-4454; Email: [pschrock@chiohd.com](mailto:pschrock@chiohd.com); Web: [www.chiohd.com](http://www.chiohd.com)
- B. Requests for substitutions will be considered in accordance with provisions of Section 01600.

## 2.2 MATERIALS

- A. Stainless Steel Sheet: ASTM A480/A480M or ASTM A666; Type 304 or 316, roll form temper.

## 2.3 COILING COUNTER SHUTTERS

- A. Construction:
  - 1. Curtain: Flat 22 gauge stainless steel, 1 1/2 inch by 1/2 inch, with a single stainless steel angle bottom bar and a 24 gauge rectangular stainless steel hood.
  - 2. End Locks: Nylon, attached to every other slat providing a wearing surface and preventing movement.
  - 3. Wind locks: Per design and wind load requirements.
  - 4. Guides: Bolted together to form guide channel and mounting surface. With soft brush guides running to full height preventing metal-to-metal contact.
    - a. Guide Type: Two-piece formed stainless steel.
  - 5. Head Plate: Rectangular steel plate, with precision sealed ball bearings supporting drive side axle.
  - 6. Barrel Assembly: Steel pipe, sized for maximum deflection, with threaded rings or lugs welded to barrel assembly for curtain attachment.
  - 7. Springs: Counterbalanced torsion springs, grease packed and mounted on steel torsion shafts.
    - a. Spring Rating: Minimum 20,000 cycles.
- B. Operation:
  - 1. Manual push-up operation.
- C. Locking Mechanism: Throw handle with provisions for keyed cylinder locking and master keying.
  - 1. Keyed cylinder access from coil side.
- D. Finish:
  - 1. Finish: No. 4 satin.

## 2.4 COILING COUNTER FIRE SHUTTERS

- A. Construction:
  - 1. Curtain: 22 gauge, 1 1/2 inch by 1/2 inch, stainless steel with a single

- angle bottom bar and a 24 gauge rectangular stainless steel hood.
  2. Guides: Bolted together to form guide channel and mounting surface.
  3. End Locks: Galvanized malleable iron, attached to every other slat providing a wearing surface and preventing movement.
  4. Head Plate: Rectangular steel plate, with precision sealed ball bearings supporting drive side axle.
  5. Barrel Assembly: Steel pipe, sized for maximum deflection, with threaded rings or lugs welded to barrel assembly for curtain attachment.
  6. Springs: Counterbalanced torsion springs, grease packed and mounted on steel torsion shafts, designed for minimum 20,000 cycles.
- B. Locking Mechanism: Standard Plated steel slide bolt locks with padlock provisions.
1. Lock access from Coil Side.
- C. Operation:
1. Manual push-up.
- D. Detection/ Release/ Warning Device:
1. Three 165 degree Fahrenheit fusible links (Standard).
  2. Smoke detectors.
  3. Underwriters Laboratories (UL): 90 Minute.
- E. Finish:
1. Finish: No. 4 satin.

### **PART 3 EXECUTION**

#### **3.1 INSTALLATION**

- A. Install assembly in accordance with manufacturer's instructions.
- B. Anchor to adjacent construction without distortion or stress.
- C. Fit and align assembly including hardware, plumb, level and square to ensure smooth operation.
- D. Position head and jamb weatherstripping to contact door when closed; secure in position.
- E. Make wiring connections between power supply and operator and between operator and controls.

#### **3.2 ADJUSTING**

- A. Adjust closures to operate smoothly throughout full operating range.

#### **3.3 DEMONSTRATION**

- A. Demonstrate proper operation to Owner.

- B. Perform fire door and shutter drop tests in presence of Owner or owner's representative. Require signature for manufacturer supplied drop test form.

**END OF SECTION 08 3000**

## SECTION 03732 PLASTIC PAVEMENT MARKINGS

### 1. GENERAL

1.1. DESCRIPTION. This work consists of furnishing and placing reflective pavement markings of hot applied thermoplastic at the locations shown on the plans or as directed, in conformance with the MUTCD, plan details and these specifications.

### 1.2. MATERIALS.

1.2.1. Thermoplastic marking material shall be a plastic compound reflectorized by internal and external application of glass beads, conforming to LADOTD Standard Specification for Roads and Bridges, latest edition, Subsections C1015.10 and 1015.13, respectively. Width and color of markings shall be as specified.

1.2.2. Thermoplastic material shall be delivered in containers of sufficient strength to permit normal handling during shipment and transportation without loss of material. Approved heat-degradable containers that can be placed in heating kettles along with the plastic material will be permitted. Each container shall be clearly marked to indicate color of material, process batch number, name of manufacturer and date of manufacture. Glass beads used in drop-on application to molten plastic shall be shipped in sacks of multi-ply paper or burlap, both with a polyethylene liner. The sacks shall be strong enough to permit handling without damage, and have a capacity of 50 pounds of beads. Sacks shall be sufficiently water-resistant so that beads will not become wet or caked in transit.

### 2. CONSTRUCTION REQUIREMENTS.

2.1. Equipment for Thermoplastic Markings: Material shall be applied to pavement by either spray or extrusion methods. Equipment shall provide continuous mixing and agitation of material. Conveying parts of equipment between main material reservoir and discharge mechanism shall prevent accumulation and clogging. Parts of equipment which come in contact with the material shall be easily accessible for cleaning and maintaining. Mixing and conveying parts shall maintain material at the application temperature. Equipment shall be capable of producing continuous uniformity in dimensions of stripes. Equipment shall be capable of producing various widths of traffic markings. Glass beads shall be applied to the molten surface of completed stripes by an automatic bead dispenser attached to the striping machine in such a manner that beads are dispensed simultaneously with the thermoplastic material at a controlled rate of flow on installed lines. The glass bead dispenser shall be equipped with an automatic cutoff control

synchronized with cutoff of thermoplastic material. Kettles to hold a minimum of 1,000 pounds of material shall be provided for melting and heating thermoplastic material. Kettles shall be equipped with automatic temperature control devices so that heating can be done by controlled heat transfer liquid rather than direct flame, to provide positive temperature control and prevent overheating of material. Applicators and kettles shall be equipped and arranged to comply with requirements of the National Board of Fire Underwriters. Applicators shall be maneuverable to the extent that straight lines can be followed and normal curves can be made in a true arc. Applicator equipment shall consist of a motorized mobile unit capable of installing traffic stripes either left or right of applying unit so that only one lane for traffic will be occupied during installation.

Applicators shall produce sharply defined lines and provide means for cleanly cutting off stripe ends and applying broken lines. The applicator unit shall have a tachometer or other approved device to insure uniform application at the required rate. It shall be adjustable for applying 1, 2, or 3 adjacent lines simultaneously at the specified spacing. The ribbon extrusion die or shaping die shall not be more than 2 inches above the roadway surface during application.

- 2.2. Weather Limitations: Application of markings will not be permitted when there is excessive pavement moisture or when the surface temperature or ambient temperature is below 50°F. The pavement shall be considered excessively moist when it is visibly wet or when a 1 square foot piece of polyethylene film condenses moisture after being placed on the pavement surface for 15 minutes.
- 2.3. Cleaning of Surfaces: Surfaces on which markings are to applied shall be cleaned of materials that may reduce adhesion of the thermoplastic marking materials to the pavement. Cleaning shall be done by blast cleaning or grinding. Surfaces shall be kept clean until placement of markings.

Existing thermoplastic markings on the roadway that are not flaking or peeling do not require removal prior to placement of new thermoplastic markings. When thermoplastic markings will replace the existing painted markings, the existing painted markings do not require removal prior to applying new thermoplastic markings, provided the existing painted markings are not flaking or peeling.

Existing lane line pavement markings on bridges shall be removed prior to applying new markings.

When preformed plastic markings will replace any of the existing markings, the existing markings shall be removed prior to applying the preformed plastic markings.

#### **Plastic Pavement Markings**

Removal shall be accomplished by methods which will not damage the pavement or bridge deck. Removal shall be to such extent that 75% of the pavement surface or bridge deck under the markings is exposed. At the end of each day's operations, temporary pavement markings conforming to Section C713 shall be placed in areas where existing markings have been removed and new markings not placed. Temporary pavement markings shall be satisfactorily removed prior to resuming plastic striping operations.

- 2.4. Application of Markings: Material shall be installed in specified widths from 4 inches to 24 inches. Finish lines shall have well defined edges and be free of waviness. Measurements shall be taken as an average through any 36-inch section of line. Longitudinal lines shall be offset approximately 2 inches from longitudinal joints. A tolerance of +1/2 inch and -1/8 inch from the specified width will be allowed, provided the variation is gradual. Segments shall square off at each end without mist or drip. Transverse variations from the control device up to 1 inch will be allowed provided the variation does not increase or decrease at the rate of more than 1/2 inch in 25 feet. Lines not meeting these tolerances shall be removed and replaced at no direct pay.

Thickness of material, not including drop-on beads, shall be not less than 90 mils for lane lines, edge lines and gore markings and not less than 125 mils for crosswalks, stop lines and word and symbol markings. A binder sealer material recommended by the thermoplastic marking manufacturer shall be applied to the pavement surface or bridge deck prior to application of the thermoplastic markings. Thermoplastic material shall be applied either by extrusion at 390°F to 450°F or by spray at 410°F to 450°F. Immediately after application of the markings, glass beads shall be applied at a minimum rate of 300 pounds per mile. Material shall not scorch or discolor when kept at this temperature range for four hours.

### **3. MEASUREMENT.**

- 3.1. Plastic Pavement Striping: Plastic striping will be measured by the linear foot of striping, exclusive of gaps.
- 3.2. Plastic Pavement Legends and Symbols: Plastic legends and symbols will be measured by lump sum. Symbols shall include all letters, lines, bars or markings necessary to convey the message at each location.

**END OF SECTION 03732**

#### **Plastic Pavement Markings**

## **SECTION 13 4713 - BULLET RESISTANT TELLER AND SERVICE EQUIPMENT**

### **PART 1 GENERAL**

#### **1.1 SECTION INCLUDES**

- A. Service and vision windows.

#### **1.2 RELATED SECTIONS**

- A. Section 07 9000 - Joint Protection.
- B. Section 08 8000 - Glass Glazing.
- C. Section 09 3000 - Tiling.
- D. Section 09 9123 - Painting and Coating.

#### **1.3 REFERENCES**

- A. UL 752 - Bullet Resisting Equipment.

#### **1.4 SUBMITTALS**

- A. Submit under provisions of Section 01 3300 - Administrative Requirements.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
  - 1. Preparation instructions and recommendations.
  - 2. Storage and handling requirements and recommendations.
  - 3. Installation methods.
- C. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.
- D. Manufacturer's Certificates: Certify products meet or exceed specified requirements.
- E. Closeout Submittals: Provide manufacturer's maintenance instructions that include recommendations for periodic checking and adjustment periodic cleaning and maintenance of all components.

#### **1.5 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: Company specializing in manufacturing products of the type specified with a minimum documented experience of five years.
- B. Installer Qualifications: Company specializing in installation of products specified with minimum three years documented experience.
- C. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and

application workmanship.

1. Finish areas designated by Architect.
2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
3. Refinish mock-up area as required to produce acceptable work.

## **1.6 DELIVERY, STORAGE, AND HANDLING**

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store assemblies, off the ground and on end, to prevent damage to face corners and edges.
- C. Store assemblies covered to protect them from damage but permitting air circulation.

## **1.7 SEQUENCING**

- A. Ensure that locating templates and other information required for installation of products of this section are furnished to affected trades in time to prevent interruption of construction progress.
- B. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

## **PART 2 PRODUCTS**

### **2.1 MANUFACTURERS**

- A. Acceptable Manufacturer: Creative Industries, Inc., which is located at: 1024 Western Dr.; Indianapolis, IN 46241; Toll Free Tel: 800-776-2068; Tel: 317-248-1102; Fax: 317-247-4953; Email: [cii@creativeind.com](mailto:cii@creativeind.com); Web: [www.cibulletproof.com](http://www.cibulletproof.com)
- B. Substitutions: or approved equal
- C. Requests for substitutions will be considered in accordance with provisions of Section 01 6000 - Product Requirements.

### **2.2 SERVICE AND VISION WINDOWS**

- A. Walk-Up Window: Extruded aluminum alloy 6063 T-5 frame anchors to wall with screws; bottoms of frame sides rest on counter top; glazing held by aluminum removable stops; weatherstripped; glazing sealed into frame, includes talk thru and stainless steel counter top with writing surface and integral deal drawer on solid bearing slides.
  1. Frame: 0.093 inch (2.4 mm) thick extruded aluminum alloy 6063 T-5.
    - a. Finish: Clear anodized aluminum.
  2. Shelf with Weatherstripped Deal Drawer: 16 gage (0.06 inches), Type 304 stainless steel with No. 4 finish. Shelf 18 inches (457 mm) wide by 4 inches (102 mm) deep. Inside drawer size is 11-7/8 inches (302 mm) wide by 16 inches (406 mm) deep by 2-1/4 inches (57 mm) high.

3. Model:
  - a. WU 3636, 36 inches (914 mm) wide by 36 inches (914 mm) high.
4. Glazing:
  - a. 1-3/16 inch (30 mm) thick glass; Level I bullet resistance, when tested in accordance with UL 752.

### **PART 3 EXECUTION**

#### **3.1 EXAMINATION**

- A. Do not begin installation until substrates have been properly prepared.
- B. Verify openings are in accordance with approved shop drawings
- C. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

#### **3.2 PREPARATION**

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

#### **3.3 INSTALLATION**

- A. Install in accordance with manufacturer's instructions.

#### **3.4 PROTECTION**

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

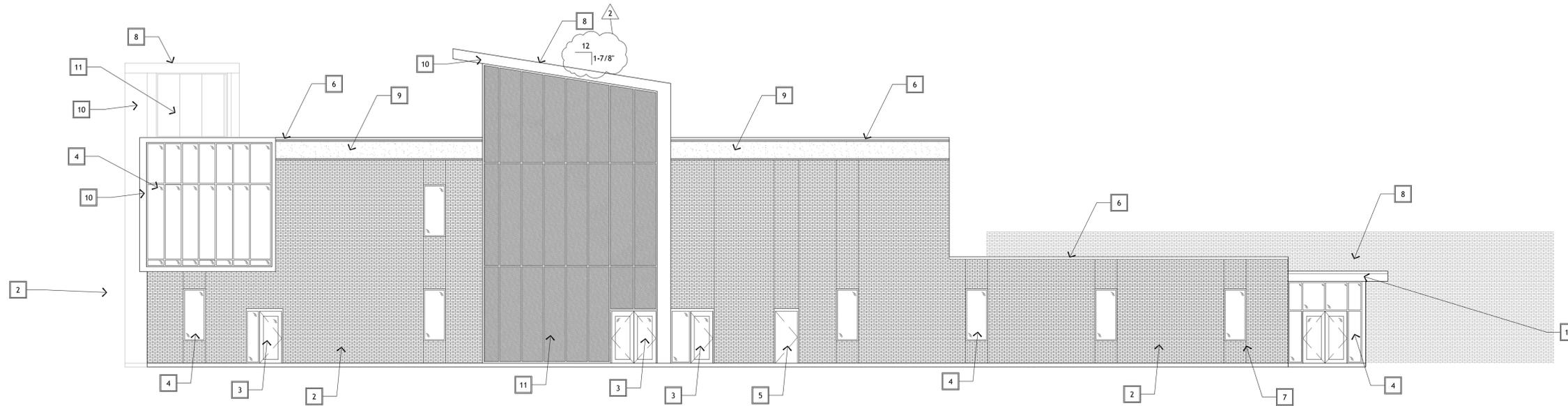
#### **3.5 SCHEDULES**

- A. See elevation A-4/A.4.13

END OF SECTION

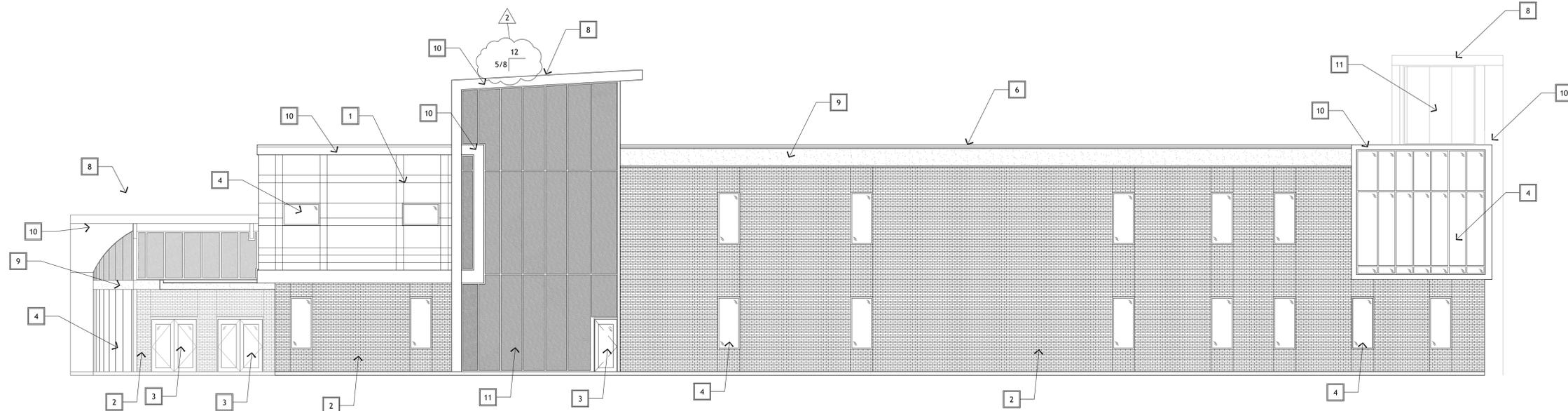
SPECIFIC NOTES

- 1 DRI-DESIGN
- 2 BRICK VENEER
- 3 STOREFRONT DOOR (SEE SCHEDULE)
- 4 STOREFRONT WINDOW (SEE SCHEDULE)
- 5 EXTERIOR DOOR (SEE SCHEDULE)
- 6 STAINLESS STEEL COPING
- 7 EXPANSION JOINT, SEE DETAIL J-13/A.7.4
- 8 STANDING SEAM ROOF
- 9 STUCCO
- 10 ALCUBOND USA DRY SEAL
- 11 KALWALL DAYLIGHT PANELS
- 12 1'-0" WATER JET CUT LETTERS



G-1 REAR EXTERIOR ELEVATION

1/8"=1'-0"



A-1 RIGHT EXTERIOR ELEVATION

1/8"=1'-0"



no.	revisions	date
1	ADDENDA NO. 2	05.12.2016
2		
3		
4		
5		
6		

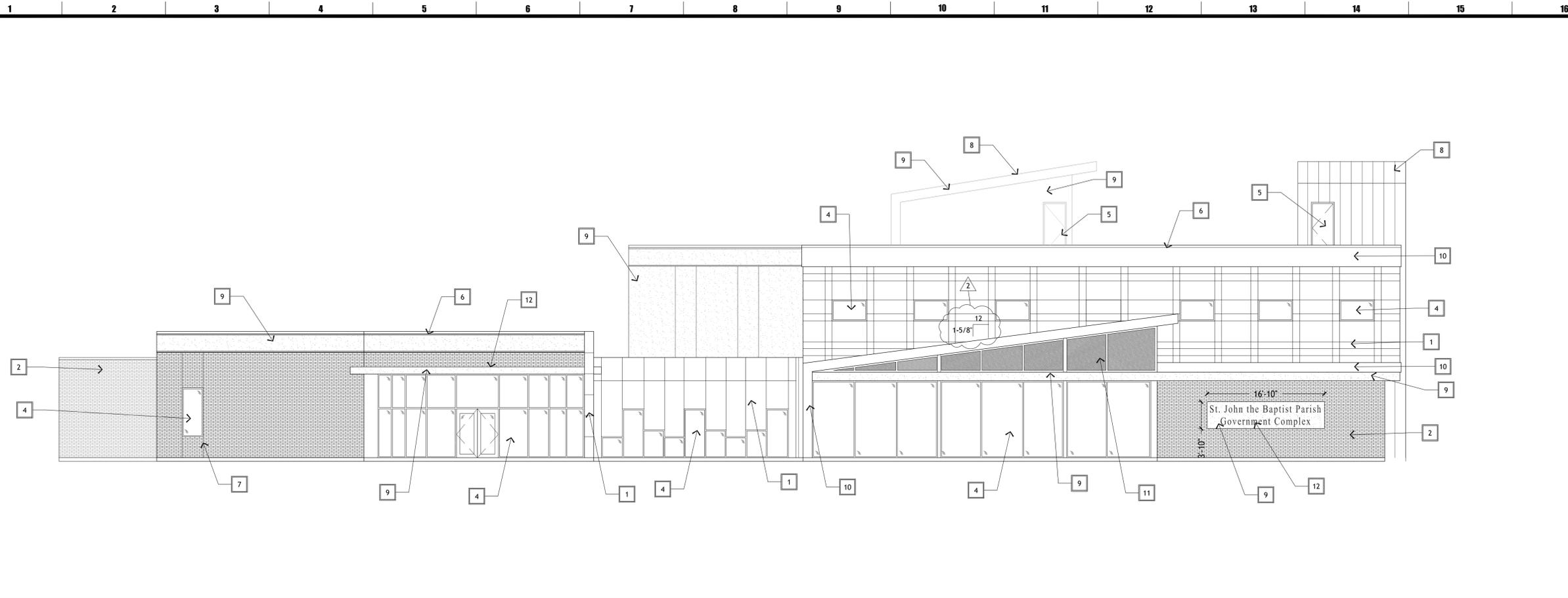
ST. JOHN THE BAPTIST PARISH  
GOVERNMENT COMPLEX

1801 W. AIRLINE HWY LAPLACE, LA 70068

EXTERIOR ELEVATIONS

		drawing number
	project number 0843 date 06.22.2015 phase construction documents	<b>A.2.0</b>

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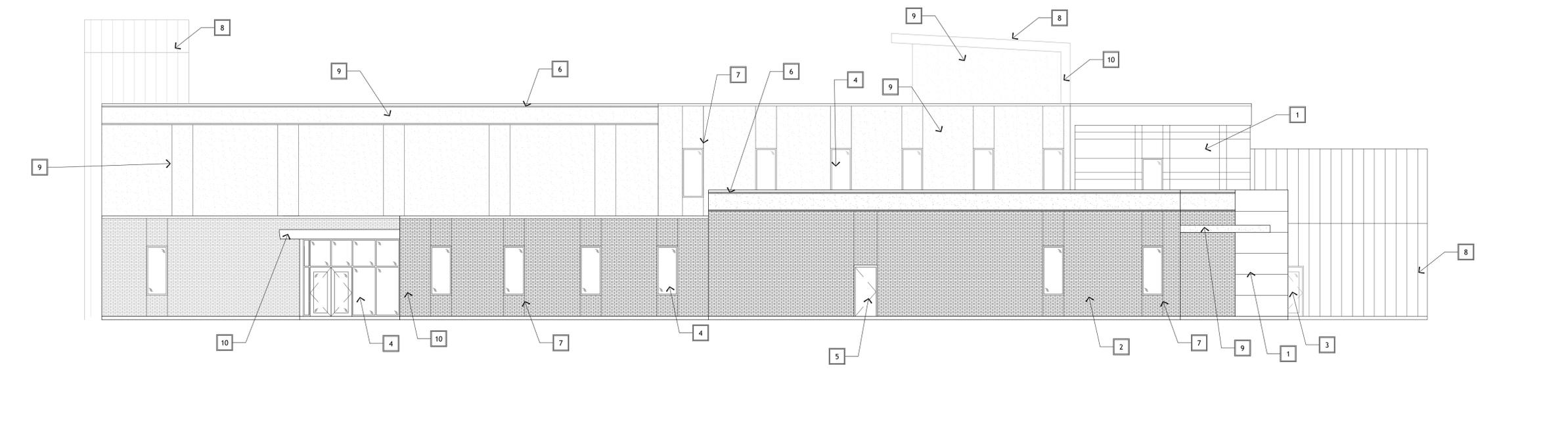


G-1 FRONT EXTERIOR ELEVATION

1/8"=1'-0"

SPECIFIC NOTES

- 1 DRI-DESIGN
- 2 BRICK VENEER
- 3 STOREFRONT DOOR (SEE SCHEDULE)
- 4 STOREFRONT WINDOW (SEE SCHEDULE)
- 5 EXTERIOR DOOR (SEE SCHEDULE)
- 6 STAINLESS STEEL COPING
- 7 EXPANSION JOINT, SEE DETAIL J-13/A.7.4
- 8 STANDING SEAM ROOF
- 9 STUCCO
- 10 ALCUBOND USA DRY SEAL
- 11 KALWALL DAYLIGHT PANELS
- 12 1'-0" WATER JET CUT LETTERS



A-1 LEFT EXTERIOR ELEVATION

1/8"=1'-0"



no.	revisions	date
1	ADDENDA NO. 2	05.12.2016
2		
3		
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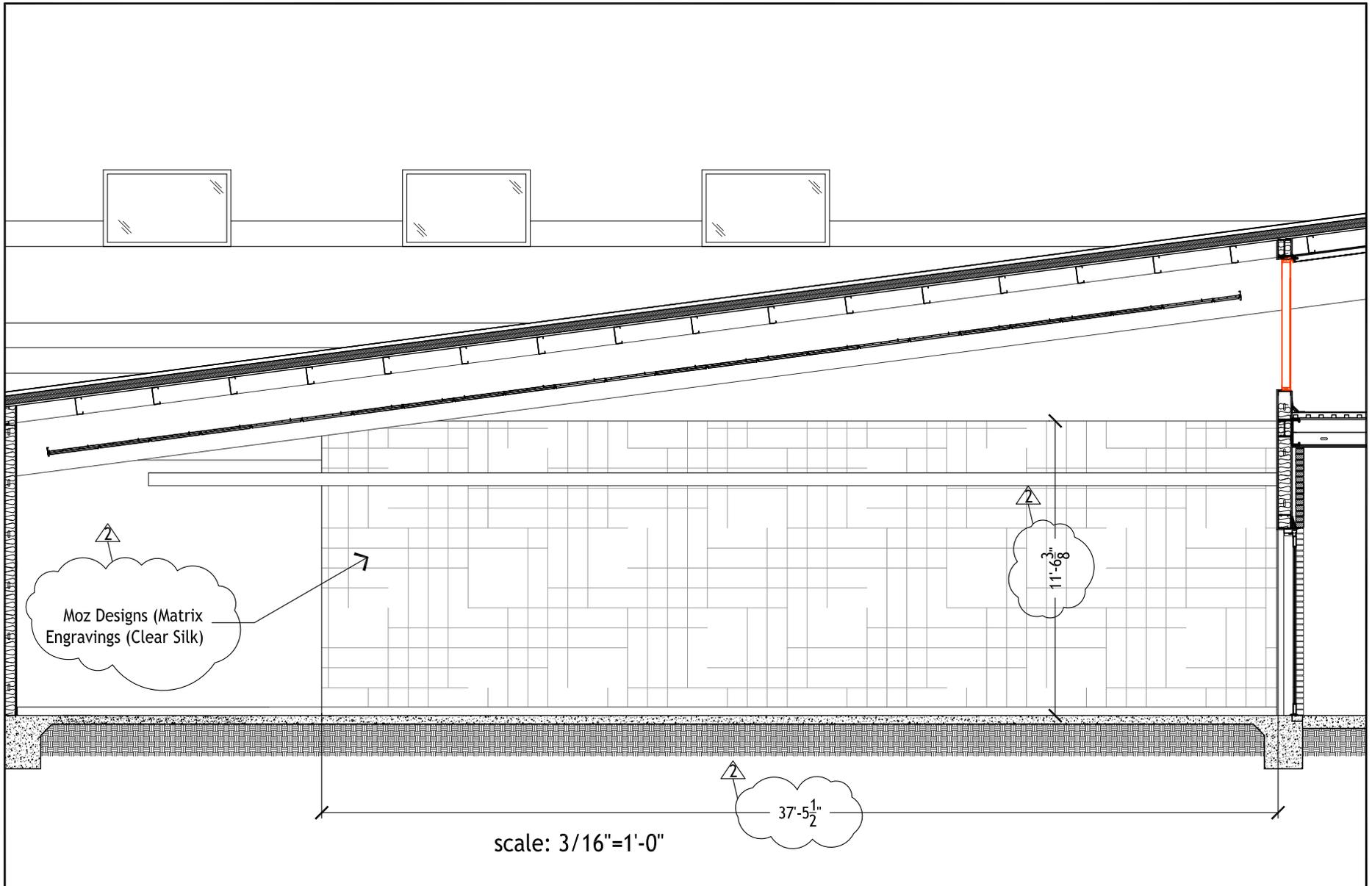
ST. JOHN THE BAPTIST PARISH  
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EXTERIOR ELEVATIONS

		drawing number
	project number 0843 date 06.22.2015 phase construction documents	<h1>A.2.1</h1>

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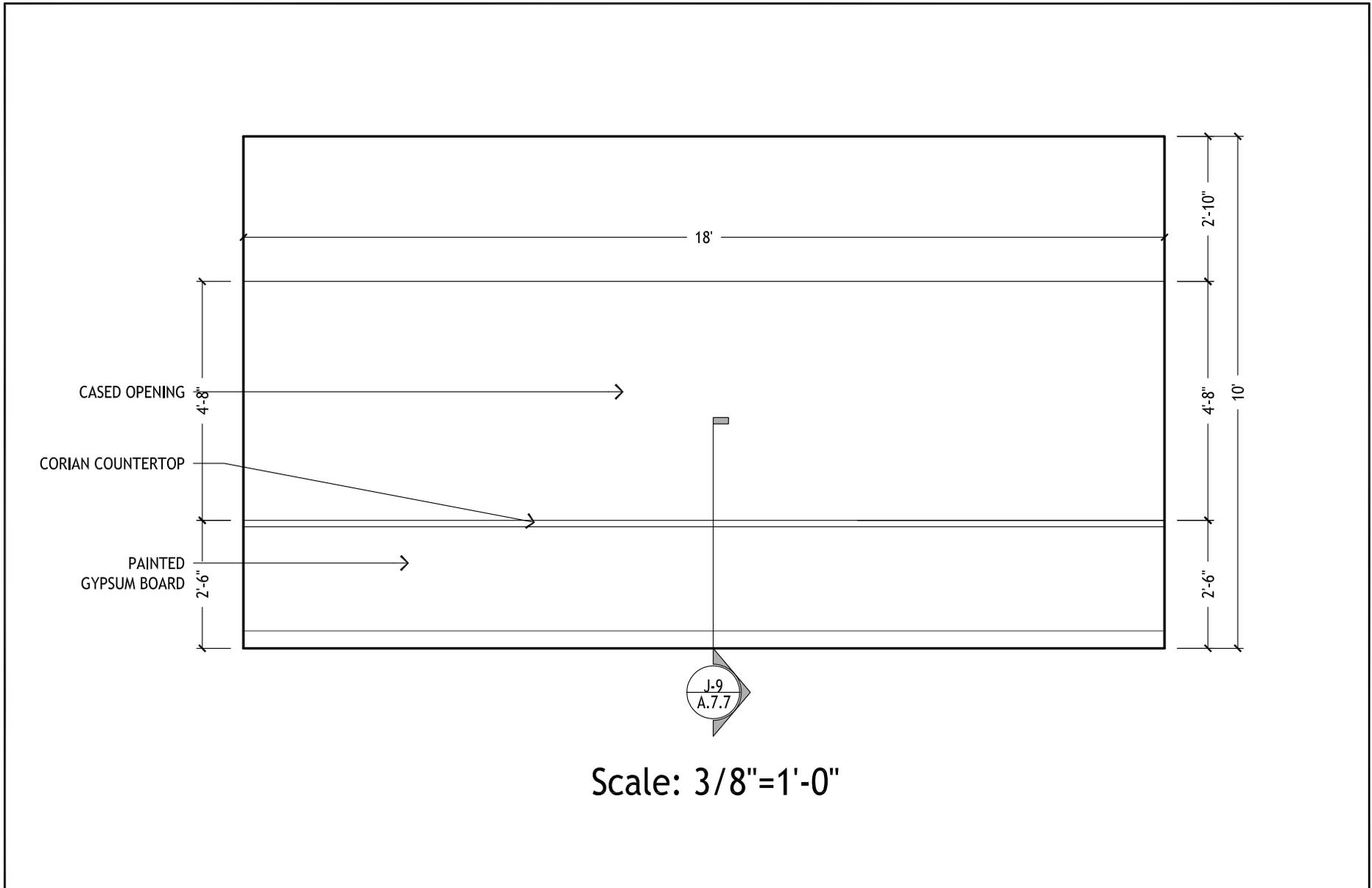



131 ormond center court  
 destin, la 70047  
 (985) 764-7275  
 fax (985) 725-0182

**St. John Government Complex**

sketch description Material in Lobby

project number 0843	date 5.12.16	drawing number <b>ASK-01</b>
file name Wall Sections		this drawing modifies: A.3.6
issued for Addenda no. 2		



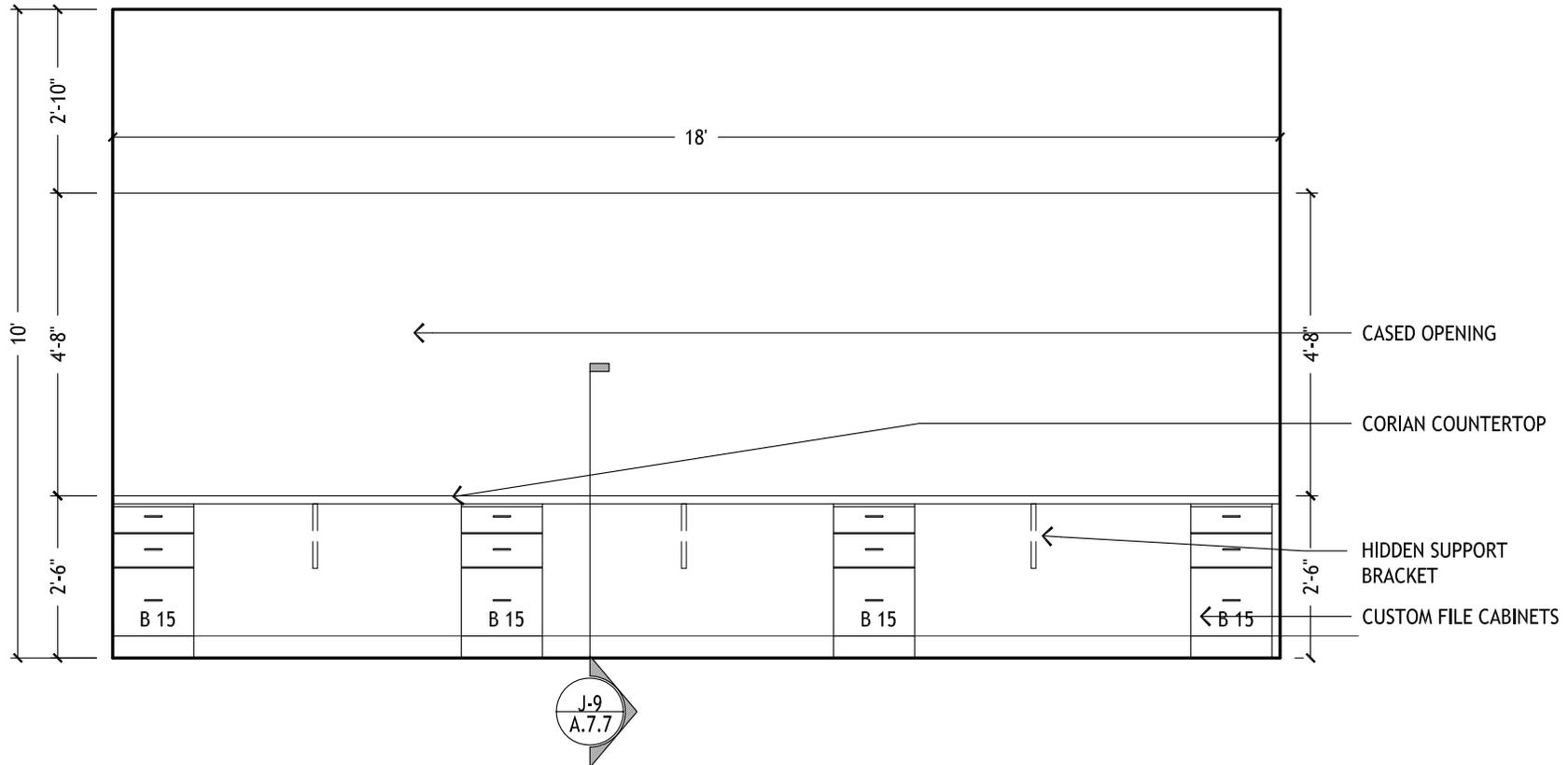

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St. John Parish Government Complex

sketch description

Registrar of Voters Interior Elevation

project number	date	drawing number
0843	05.12.16	<b>ASK-02</b>
file name	J-6/A.4.20	
issued for	this drawing modifies:	
Addenda no. 2	A.4.20	



Scale: 3/8"=1'-0"



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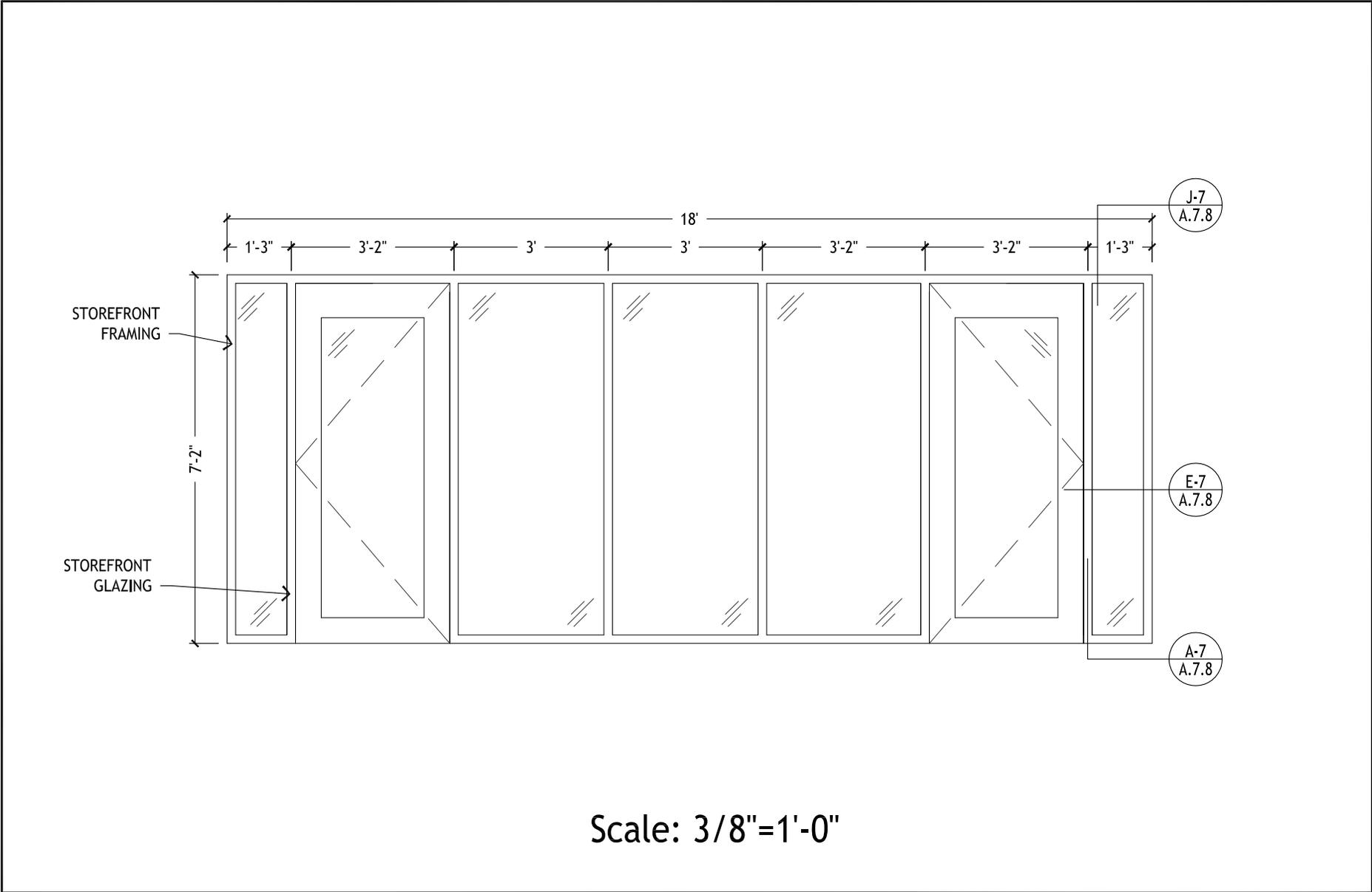
St. John Parish Government Complex

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sketch description

Registrar of Voters Interior Elevation

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file name		
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issued for	Addenda no. 2	A.4.20



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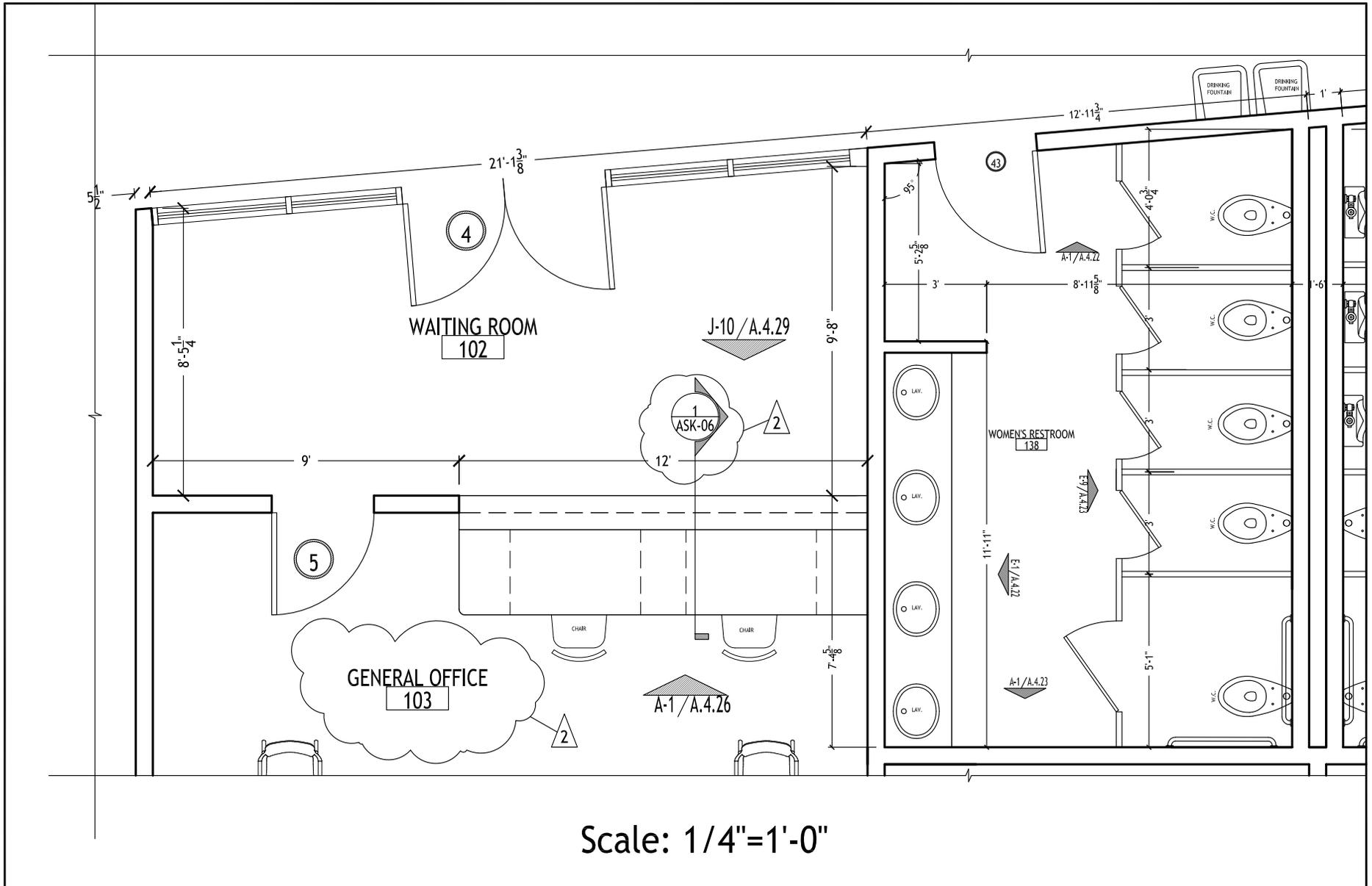
**MURRAY ARCHITECTS**

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 denver, la 70047  
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**St. John Parish Government Complex**

sketch description  
 Door Elevation no. 48 @ Registrar of Voters

project number 0843	date 05.12.16	drawing number <b>ASK-04</b>
file name A-8/A.4.13		this drawing modifies: A.4.13
issued for Addenda no. 2		



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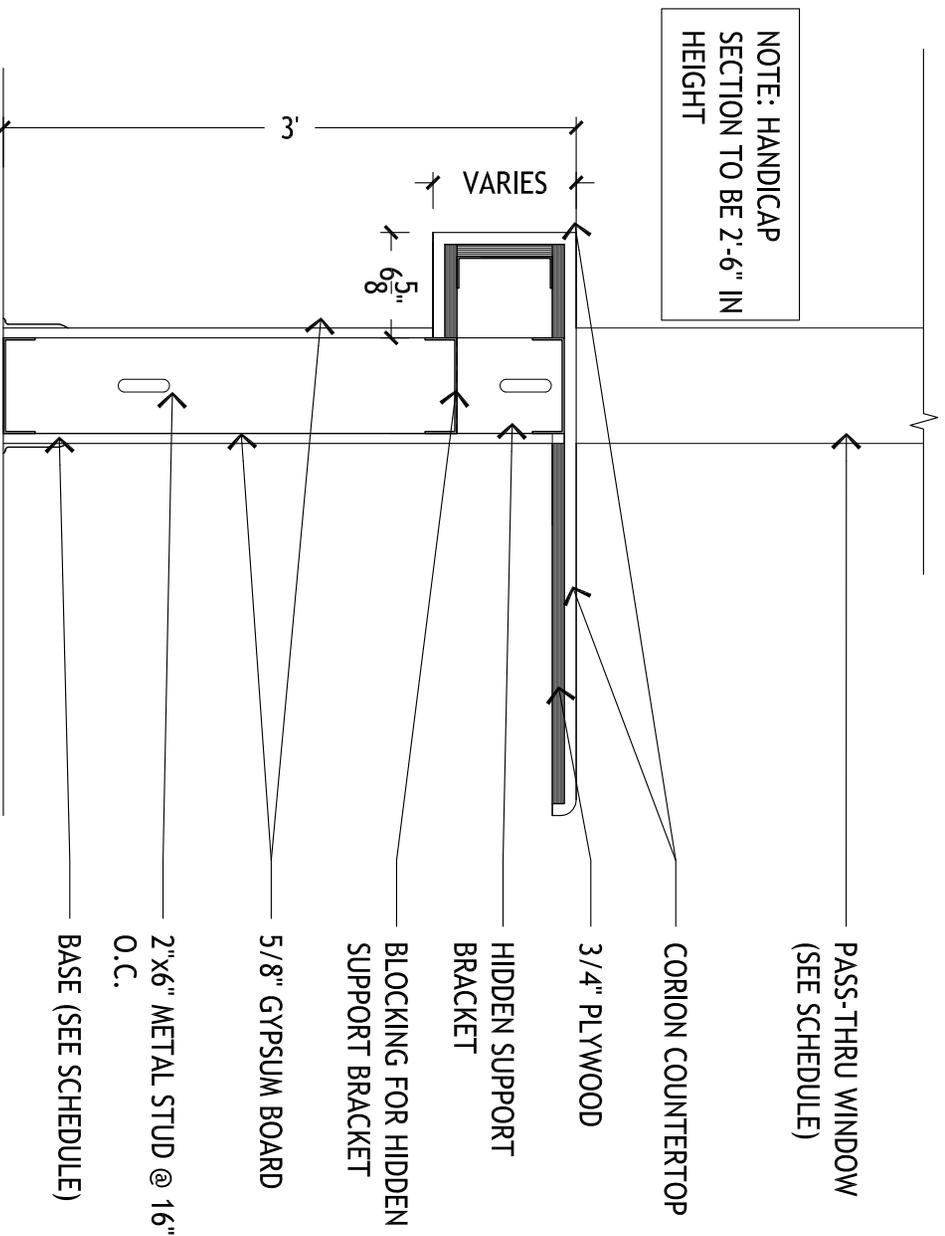
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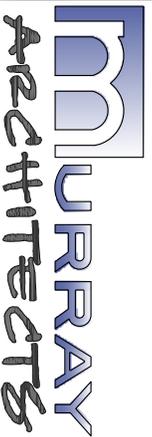
sketch description

Detail Floor Plan @ General Office 103

project number	date	drawing number
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file name	F-1/A.4.16	
issued for	Addenda no. 2	this drawing modifies:
		A.4.16



Scale: 1"=1'-0"

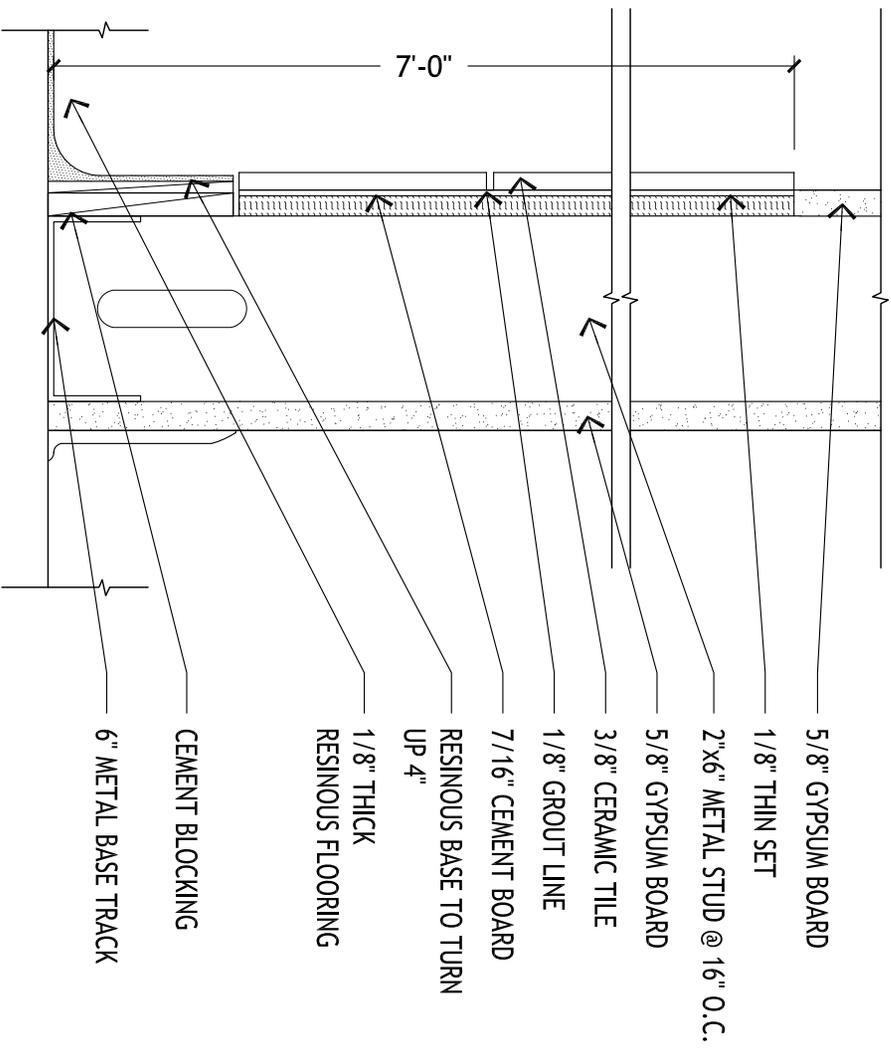


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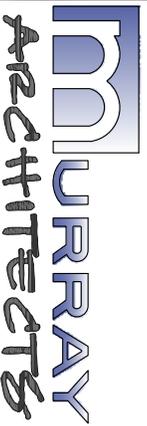
St. John Parish  
Government Complex

sketch description  
Section @ General Office 103

project no.	date	drawing number
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file name		this drawing modifies
A.4.16		A.4.16
issued for		
ADDENDA NO. 2		



Scale: 3"=1'-0"



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fax (985) 725 - 0182

St. John Parish  
Government Complex

sketch description  
Section @ wet walls in restrooms

project no.	date	drawing number
0843	5.12.16	ASK-07
file name		this drawing modifies
A.7.0		A.7.9
issued for		
ADDENDA NO. 2		

# Crumb Engineering, LLC

4609 Fairfield Street  
Metairie, LA 70006

(504) 455-4450  
Fax (504) 455-4451

May 11, 2016

Mr. Michael Tabb  
Murray Architects  
131 Ormond Center Court  
Destrehan, LA 70047

RE: St. John Parish Government Building  
Mechanical Addendum Items

Dear Michael:

Below is a list of mechanical addenda items for the referenced project. Please incorporate these items into your next addendum.

## **ADDENDUM**

Plans and Specifications for the referenced project are hereby modified as follows:

### **A. CLARIFICATIONS**

1. Underground domestic water piping run to floor drain trap primers and any underground water piping less than 4" shall be type 'K' copper.
2. Above ground sewer, storm drain and vent piping shall be solid core, pressure rated schedule 40 PVC with solvent weld fittings as specified for underground sewer and vent piping. For all above ground sewer and vent piping run above ceilings, provide ½" fiberglass pipe insulation. The ceilings are return air plenums.
3. Reference architectural drawings for location of fire rated walls and provide 1-1/2 hour UL 555 dampers at each duct penetration of fire rated walls.
4. Polypropylene style fusion valves may be used in lieu of brass ball valves on polypropylene piping systems.
5. The capacities shown on sheet M4.0 – Mechanical Schedules shall be the minimum acceptable capacities.
6. Delete all references in 233000 to kitchen exhaust system ductwork and fans.

### **B. SPECIFICATIONS**

1. Section 221100 Plumbing, Replace 2.4.E with the following:

#### **WATER CLOSET (MARK P-1)**

Wall mounted; china; elongated rim; top spud; low consumption; open front white seat with check hinges less cover; battery sensor flush valve with screwdriver stop and back flow vacuum breaker. Provide wall carrier.

Fixture - Kohler Model K-4325  
Flush Valve – Sloan Optima Plus 8111-1.28  
Carrier – Jay R Smith 210 series

**WATER CLOSET (MARK P-1A)**

Wall mounted; china; elongated rim; top spud; low consumption; handicap use, ADA compliant; open front white seat with check hinges less cover; battery sensor flush valve with screwdriver stop and back flow vacuum breaker. Provide wall carrier.

Fixture – Kohler Model K-4325  
Flush Valve – Sloan Optima Plus 8111-1.28  
Carrier – Jay R Smith 210 series

**WATER CLOSET (MARK P-1B)**

Floor mounted, china, pressure assisted flush tank, elongated bowl, white solid plastic seat with s.s. check hinge and cover, provide flexible c.p. metal supply with wheel handle stop.

American Standard 2333.100

**LAVATORY (MARK P-2)**

Countertop; china; self rimming; mount for handicap use, ADA compliant; grid strainer with 1-1/2” tailpiece; 1-1/2” c.p. “P” trap with offset waste to wall; tempered mixing battery sensor faucet/battery operated soap dispenser combo. Mount mixing valve and control module below sink, 3/8” flexible metal c.p. risers with wheel handle stops; provide all piping from supplies to fixture; insulate waste and water piping under fixture with closed cell insulation.

Fixture – American Standard Model 0476.028 - color white  
Faucet – Sloan ESD35187-BDT

**LAVATORY (MARK P-2A)**

ADA wall hung lavatory with wall hanger, pop-up drain, 1-1/2” c.p. “P” trap, offset waste to wall, 3/8” c.p. flexible metal risers with wheel handle stop and tempered mixing battery sensor faucet/battery operated soap dispenser combo. Mount mixing valve and control module below sink. Provide ADA Lav Shield to encapsulate all piping and mixing valves.

Fixture – American Standard 0355.012  
Faucet – Sloan ESD35187-BDT

**URINAL (MARK P-3)**

Wall hung; china; top spud; low consumption; wall hanger; battery sensor flush valve with vacuum breaker and screwdriver stop.

Fixture – American Standard 6042.001EC  
Flush Valve – American Standard 6062.013.002  
Carrier – Jay R Smith 0636

**URINAL (MARK P-3A)**

ADA Wall hung; china; top spud; low consumption; wall hanger; battery sensor flush valve with vacuum breaker and screwdriver stop. Mount at ADA height.

Fixture – American Standard 6042.001EC

Flush Valve – American Standard 6062.013.002

Carrier – Jay R Smith 0636

**SINK (MARK P-4)**

Stainless Steel ADA; two compartment; countertop; self-rimming; 8” deep bowl; 18 ga. type 304 s.s.; 3/8” flexible supplies with wheel handle stops; two stopper strainers; continuous waste; 1-1/2” c.p. “P” trap with waste to wall. See plans where offset piping and waste are required. Insulate waste and water piping under fixture with closed cell insulation, as manufactured by Truebro or approved equal.

Fixture – Elkay Model DLR-3322

Faucet – Elkay LKGT 2041

Continuous Waste – Elkay Model LK-53

Drain – Elkay Model LK-99

**SINK (MARK P-4A)**

Stainless Steel ADA; Single compartment; countertop; self-rimming; 8” deep bowl; 18 ga. type 304 s.s.; 3/8” flexible supplies with wheel handle stops; stopper strainer; 1-1/2” c.p. “P” trap with waste to wall. See plans where offset piping and waste are required. Insulate waste and water piping under fixture with closed cell insulation, as manufactured by Truebro or approved equal.

Fixture – Elkay Model LR-2522

Faucet – Elkay LKGT 2041

**SHOWER (MARK P-5, P-5A, P-5B, P-5C)**

ADA Field Constructed shower stall, see Architectural details. Provide pressure activated mixing valve; adjustable temperature limit stop; 2.5 GPM shower head arm and flange; inline diverter valve; hand shower; 24” glide rail; inline double check valve and 2” floor drain.

Mixing Valve & Shower Head – Leonard Model 4505-H-05-D-2L-501P(G)

**SERVICE SINK (MARK P-6)**

Molded plastic floor mop sink; 12” high sides; 24” X 24” X 10”; faucet with integral stops; wall brace and vacuum breaker; hose and hose bracket; stainless steel strainer and 3” deep seal “P” trap.

Fixture – Fiat Model MSB 2424

Faucet – Fiat Model #830-AA

Hose – Fiat Model #832-AA

**DRINKING FOUNTAIN (MARK P-7)**

Wall mounted; electric fountain; bi-level ADA compliant with bottle filling station, stainless steel; 120V; 1-1/2" "P" trap; 3/8" c.p. metal supply with wheel handle stop; 7.5 GPH to 50 degree F at 90 degree F ambient.

Fixture – Elkay Model LZSTL8WSSP

2. Section 230900 Temperature Controls, Add the following to sequence of operation:

**Exhaust Fans**

1. A manual reset high limit thermostat set at 125 degrees F shall de-energize all fans above 600CFM on a temperature rise above setpoint.
2. All toilet room and janitor closet exhaust fans shall be interlocked with the room light switch by Division 26.

**Miscellaneous Points**

1. Fire Alarm trouble. Provide points indicating trouble and/or activation of the fire alarm system. Connect to Fire Alarm system.

**Variable Air Volume - Terminal Unit**

Run Conditions - Scheduled:

The unit shall run according to a user definable time schedule in the following modes. See VAV Box Schedule on drawings for CFM setpoints.

- Occupied Mode: The unit shall maintain
  - A 72°F (adj.) cooling setpoint
  - A 70°F (adj.) heating setpoint.
  -
- Unoccupied Mode (night setback): The unit shall maintain
  - A 80°F (adj.) cooling setpoint.
  - A 55°F (adj.) heating setpoint.

Alarms shall be provided as follows:

- High Zone Temp: If the zone temperature is greater than the cooling setpoint by a user definable amount (adj.).
  - Low Zone Temp: If the zone temperature is less than the heating setpoint by a user definable amount (adj.).

#### Zone Setpoint Adjust:

The occupant shall be able to adjust the zone temperature heating and cooling setpoints at the zone sensor.

#### Zone Optimal Start:

The unit shall use an optimal start algorithm for morning start-up. This algorithm shall minimize the unoccupied warm-up or cool-down period while still achieving comfort conditions by the start of scheduled occupied period.

#### Zone Unoccupied Override:

A timed local override control shall allow an occupant to override the schedule and place the unit into an occupied mode for an adjustable period of time. At the expiration of this time, control of the unit shall automatically return to the schedule.

#### Reversing Variable Volume Terminal Unit - Flow Control:

The unit shall maintain zone setpoints by controlling the airflow through one of the following:

##### Occupied:

- When zone temperature is greater than its cooling setpoint, the zone damper shall modulate between the minimum occupied airflow (adj.) and the maximum cooling airflow (adj.) until the zone is satisfied.
- When the zone temperature is between the cooling setpoint and the heating setpoint, the zone damper shall maintain the minimum required zone ventilation (adj.).
- When zone temperature is less than its heating setpoint, the controller shall enable heating to maintain the zone temperature at its heating setpoint. Additionally, if warm air is available from the AHU, the zone damper shall modulate between the minimum occupied airflow (adj.) and the maximum heating airflow (adj.) until the zone is satisfied.

##### Unoccupied:

- When the zone is unoccupied the zone damper shall control to its minimum unoccupied airflow (adj.).
- When the zone temperature is greater than its cooling setpoint, the zone damper shall modulate between the minimum unoccupied airflow (adj.) and the maximum cooling airflow (adj.) until the zone is satisfied.
- When zone temperature is less than its unoccupied heating setpoint, the controller shall enable heating to maintain the zone temperature at the setpoint. Additionally, if warm air is available from the AHU, the zone damper shall modulate between the minimum unoccupied airflow (adj.) and the auxiliary heating airflow (adj.) until the zone is satisfied.

#### Electric Reheating Stages:

The controller shall measure the zone temperature and stage the reheating to maintain its setpoint. To prevent short cycling, there shall be a user definable (adj.) delay between stages, and each stage shall have a user definable (adj.) minimum runtime.

The reheating shall be enabled whenever:

- Outside air temperature is less than 65°F (adj.).
- AND the zone temperature is below setpoint.
- AND sufficient airflow is provided.

#### Reheating - High Discharge Air Temperature Limit:

The controller shall measure the discharge air temperature and limit reheating if the discharge air temperature is more than 15°F (adj.) above the zone temperature.

#### Discharge Air Temperature:

The controller shall monitor the discharge air temperature.

Alarms shall be provided as follows:

- High Discharge Air Temp: If the discharge air temperature is greater than 120°F (adj.).
- Low Discharge Air Temp: If the discharge air temperature is less than 40°F (adj.).

### **C. PRIOR APPROVALS**

Listed below are manufacturers who are recognized as capable of producing products or equipment equal to those specified. Products or equipment will be considered acceptable, providing the equipment meets, or exceeds the specification requirements, fits the available space, and has the capacity and performance requirements. Lighting fixtures shall also be similar in appearance, construction, and performance (as published by an independent laboratory report).

The listed (prior-approved) equipment are not given with respect to any specific model, series, catalog number, etc. Suppliers are cautioned that before their equipment is actually approved, it will be incumbent upon them to demonstrate to the architect or engineer, that the product or equipment is (in fact) equal to the requirements specified and conforms fully to all specification requirements.

Section 221100 Plumbing:

Approved manufacturers

Plumbing Fixtures – Delta, Josam, Gerber, Speakman, Powers, Western  
Water heater – American Standard

Section 233000 HVAC:

Approved manufacturers

Diffusers, Grilles, Registers –Metalaire, Nailor  
Louvers – Metalaire/NCA, Pottorff, United Enertech  
Variable Frequency Drive – Danfoss  
Sound Attenuators – Commercial Acoustics  
Rooftop Unit – Valent  
VRF Heat Pump Systems – Carrier  
Exhaust Fans – Twin City

Section 230900 Temperature Controls:

Approved manufacturers

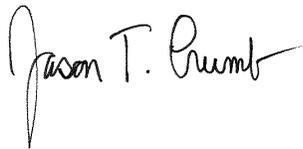
Trane, Automated Logic

**END OF ADDENDUM**

If you have any questions or need any additional information, please do not hesitate to call.

Very Truly Yours,

**Crumb Engineering, LLC**

A handwritten signature in black ink that reads "Jason T. Crumb". The signature is written in a cursive style with a large initial 'J' and a long, sweeping underline.

Jason T. Crumb, PE



CREATIVE ENGINEERING GROUP, LLC.

May 12, 2016

**Mr. Michael Tabb**  
**Murray Architects**  
13760 River Road  
Destrehan, LA 70047

RE: St. John Government Complex; MU1401-15

**Subject: Addendum Items**

Dear Michael:

The following items are to be added to the next addendum:

**A. CONTRACTOR QUESTIONS**

1. On sheet E8.0, Detail 2 shows a typical concrete duct bank detail. The specifications do not give direction on where the concrete encasement is required. Please clarify what conduits will require the concrete encasement.

CEG response: The concrete encasement shall only apply for the feeders on the secondary side of the utility transformer.

2. Will this project require STP or UTP category 6 cabling?

CEG response: This project will require all category 6 cabling to be STP. Provide all STP testing, cable installation, inspection, etc.

**B. DRAWINGS**

1. Reference Electrical Drawing Sheet E.1.1, Lighting Fixture Schedule
  - a. Add/Modify the following fixtures in the fixture schedule:
    - i. F33 – NEWSTAR #(5)MUS2-HC-L1-A-27-DM/(1)MUS1-HC-L1-A-27-DM. PROVIDE ALL CABLES, CONNECTORS, ETC FOR A COMPLETE AND FUNCTIONAL SYSTEM.
    - ii. F35 – NEWSTAR #(3)MUS4-HC-L1-A-27. PROVIDE ALL CABLES, CONNECTORS, ETC FOR A COMPLETE AND FUNCTIONAL SYSTEM.
    - iii. F66 – FLAG POLE LIGHTS – KIM #ARFX16-NF-4K-40-UV-BL-SM2/ 18” BLACK FINISH STANCHION
2. Reference Electrical Drawing Sheet E.2.0, Site Plan - Electrical
  - a. Add flag pole lights. See sketch ESK-2
  - b. Add flood light mounting detail. See sketch ESK-3

---

CONSULTING ENGINEERS

201 Highland Park Plaza Covington, LA 70434  
Office: 985.249.5706 Fax: 985.249.5707

### **C. PRIOR APPROVAL**

Listed below are manufacturers who are recognized as capable of producing products or equipment equal to those specified. Products or equipment will be considered acceptable, providing the equipment meets, or exceeds the specification requirements, fits the available space, and has the capacity and performance requirements. Lighting fixtures shall also be similar in appearance, construction, and performance (as published by an independent laboratory report).

The listed (prior-approved) equipment are not given with respect to any specific model, series, catalog number, etc. Suppliers are cautioned that before their equipment is actually approved, it will be incumbent upon them to demonstrate to the architect or engineer, that the product or equipment is (in fact) equal to the requirements specified and conforms fully to all specification requirements.

Approved Manufacturers

#### **265100 & 265600 Lighting**

F1 – METALUX, SIMKAR, DAY-BRITE  
F1E - METALUX, SIMKAR, DAY-BRITE  
F2 - METALUX, SIMKAR, DAY-BRITE  
F3 - METALUX, LSI, DAY-BRITE  
F4 - H.E WILLIAMS, EMERG-LITE, CHLORIDE  
F5 - HALO, CONTECH LIGHTING, LIGHTOLIER  
F5E - HALO, CONTECH LIGHTING, LIGHTOLIER  
F5A - HALO, CONTECH LIGHTING, LIGHTOLIER  
F6 - METALUX, LSI, DAY-BRITE  
F7 - HALO, CONTECH LIGHTING, LIGHTOLIER  
F7E - HALO, CONTECH LIGHTING, LIGHTOLIER  
F8 - METALUX, SIMKAR, H.E WILLIAMS, DAY-BRITE  
F9 - METALUX, SIMKAR, H.E WILLIAMS, DAY-BRITE  
F9E - METALUX, SIMKAR, H.E WILLIAMS, DAY-BRITE  
F10 - H.E WILLIAMS, LUMINAIRE LED, LUMAX  
F11 - METALUX, LSI, H.E WILLIAMS, DAY-BRITE  
F12 - PORTFOLIO, CONTECH LIGHTING, LIGHTOLIER  
F12E - HALO, CONTECH LIGHTING, LIGHTOLIER  
F13 - HALO, CONTECH LIGHTING, LIGHTOLIER  
F14 - DAY-BRITE, LCD, KURTZON, FAIL-SAFE  
F14E - DAY-BRITE, LCD, KURTZON, FAIL-SAFE  
F15 - NO APPROVALS  
F16 - METALUX, SIMKAR, DAY-BRITE  
F16E - METALUX, SIMKAR, DAY-BRITE  
F17 - NEO-RAY

F18 - METALUX, LSI, DAY-BRITE  
F18E - METALUX, LSI, DAY-BRITE  
F19 - ALW, AXIS  
F20 - HALO, PEACHTREE, LIGHTOLIER  
F21 - MCGRAW-EDISON, LSI, GARDCO  
F22 - MCGRAW-EDISON, LSI, GARDCO  
F23 - NO APPROVALS  
F24 - METALUMEN, LEDALITE  
F25 - BARTCO  
F26 - ADVENT  
F27 - NO APPROVALS  
F28 - NO APPROVALS  
F29 - NO APPROVALS  
F30 - NO APPROVALS  
F31 - METALUX, SIMKAR, DAY-BRITE  
F31E - METALUX, SIMKAR, DAY-BRITE  
F32 - NO APPROVALS  
F33 - HALO  
F34 - BROWNLEE, OXYGEN  
F35 - HALO  
F36 - SPECIALTY LED, WAC  
F37 - MODA, GE  
F38 - QSSI, RAYON  
F39 - AXIS, NEO-RAY, LEDALITE  
F39E - AXIS, NEO-RAY, LEDALITE  
F39A - AXIS, NEO-RAY, LEDALITE  
F39AE - AXIS, NEO-RAY, LEDALITE  
F40 - CONTECH LIGHTING, NSPEC, LIGHTOLIER  
F40E - CONTECH LIGHTING, NSPEC, LIGHTOLIER  
F41 - MODA, GE  
F42 - MODA  
F43 - NO APPROVALS  
F44 - NO APPROVALS  
F45 - CSL, SPECTRUM  
F46 - STRAND LIGHTING  
F47 - STRAND LIGHTING  
F48 - STRAND LIGHTING  
F49 - CONTECH LIGHTING, PATHWAY, SPECTRUM  
F50 - STRAND LIGHTING  
F51 - NO APPROVALS  
F52 - PORTFOLIO  
F53 - METALUMEN, PRUDENTIAL  
F54 - METALUX  
F55 - NO APPROVALS  
F56 - TIVOLI  
F57 - NO APPROVALS

F58 - LIGMAN  
F58A - LIGMAN  
F58B - LIGMAN  
F59 - NO APPROVALS  
F60 - INTERLUX  
F61 - AXIS  
F62 - CONTECH LIGHTING, PORTFOLIO  
F63 - DAY-BRITE, H.E WILLIAMS, LSI  
F64 - DAY-BRITE, H.E WILLIAMS, LSI  
F65 - SPI, ELLIPTIPAR, ORGATECH

**260923 Lighting Control Devices**

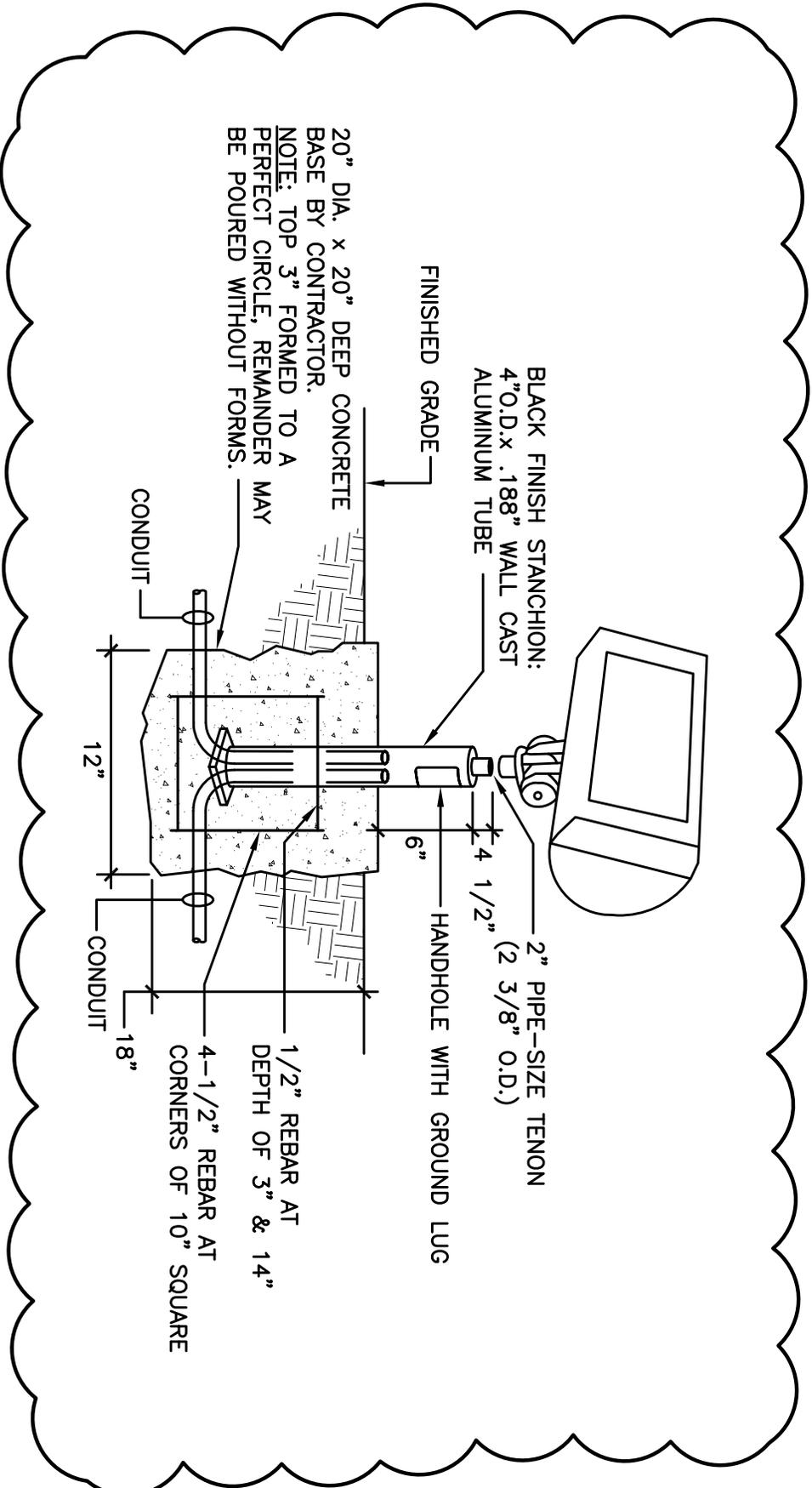
Leviton

**281300 Access Control**

Continental

**END OF ADDENDUM**



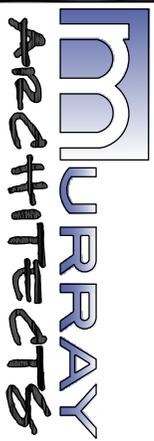


20" DIA. x 20" DEEP CONCRETE  
 BASE BY CONTRACTOR.  
 NOTE: TOP 3" FORMED TO A  
 PERFECT CIRCLE, REMAINDER  
 MAY BE Poured WITHOUT FORMS.

4

FLOOD LIGHT MOUNTING DETAIL

N.T.S.



131 ormond center court  
 destrehan, la 70047  
 (985) 764 - 7275  
 fax (985) 725 - 0182

ST. JOHN THE BAPTIST PARISH  
 GOVERNMENT COMPLEX

sketch description  
 FLAG POLE LIGHT ADDITIONS

project number	0843	date	05.12.16	drawing number	ESK-3
file name	MU1401-15_E2.0	issued for	ADDENDUM	this drawing modifies:	

SECTION 01 2531 – SUBSTITUTION REQUEST FORM

To: Murray Architects  
13760 River Road  
Destrehan, LA 70047

Project: St. John the Baptist Parish  
Government Complex

From: Adam Leo

Date: 5/3/2016

Specified Item: 072413 9 2.1 Stucco  
(Section No.) (Page No.) (Paragraph) (Description)

We believe that the following product is equal or superior to the specified product in appearance, durability, performance, and in every other respect, and we hereby submit it for your consideration as a substitute for the specified item for the above-mentioned project:

A. Proposed Substitution: Senergy's CBS 1000

B. Reason for Substitution: additional competition

C. COSTS (*Construction Phase Only* – Provide complete breakdown of costs including the cost amount to be DEDUCTED from the Contract Sum if the proposal substitution is accepted. Include documentation for both materials and labor: provided once awarded

D. SCHEDULE (*Construction Phase Only* – Describe substitution's affect on construction schedule): None

E. Supporting Data:

1. Cut sheets: Attach complete technical data, including laboratory tests, if applicable.
2. Installation: Include complete information on changes to Drawings and/or Specifications describing the steps that the proposed substitution will require for its proper installation.
3. Samples: Submit with request all necessary samples and substantiating data clearly marked to prove equal quality and performance to that which is specified.

F. List ways in which the proposed substitution affects dimensions shown on Drawing:

None

G. List effects of proposed substitution on other trades: None

H. List ways in which proposed substitution would be affected by applicable code requirements and agency approval: None

I. List differences between proposed substitution and specified item: Minimal

J. Manufacturer's warranties of the proposed and specified items Same  Different   
Explain: \_\_\_\_\_

K. List information on availability of maintenance service and source of replacement materials: Distributers are alwaysn near by and available

L. Certification of, and Assumption of Liability for, Equivalent Performance: The undersigned states that the function, appearance, and quality of the proposed substitution is equivalent or superior to the specified item and is in full compliance with the Contract Documents and applicable regulatory requirements. NOTARIZATION IS REQUIRED FOR SUPPLIER DURING BIDDING PHASE. NOTARIZATION IS REQUIRED FOR BOTH SUPPLIER AND CONTRACTOR DURING CONSTRUCTION PHASE. FAILURE TO PROVIDE DESIGNED AND NOTARIZED SUBSTITUTION REQUEST WILL RESULT IN AUTOMATIC REJECTION OF PROPOSED SUBSTITUTION.

B+L Supply Inc  
Supplier

[Signature]  
Signature

504-831-1122  
Telephone

5-3-16  
Date

Signature must be by person authorized to legally bind his/her firm to the above terms. Failure to provide legally binding signature will result in rejection.

NOTARY: \_\_\_\_\_

\_\_\_\_\_  
Date

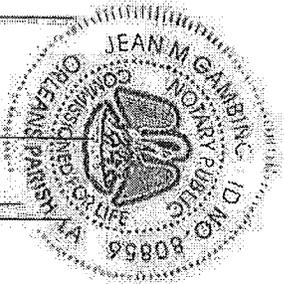
General Contractor \_\_\_\_\_

\_\_\_\_\_  
Signature

NOTARY: [Signature]

5-3-16  
Date

B+L Supply Inc  
Supplier/ Subcontractor



[Signature]  
Signature

A/E'S REVIEW AND ACTION (to be filled-in by Architect/Engineer)

- Substitution Proposal Rejected because not complete
- Substitution Accepted
- Substitution Accepted as noted
- Substitution Rejected
- Substitution Proposal Rejected because received too late.

By: [Signature]  
Date: 5/3/2016  
Remarks: \_\_\_\_\_

**SECTION 01 2531 – SUBSTITUTION REQUEST FORM**

To: Murray Architects  
 13760 River Road  
 Destrehan, LA 70047

Project: St. John the Baptist Parish  
 Government Complex

From: Himmel's Architectural  
Door & Hardware

Date: 5/9/16

Specified Item: 081416 4 2.3 Veneered-Faced Doors  
 (Section No.) (Page No.) (Paragraph) (Description)  
for transparent finish

We believe that the following product is equal or superior to the specified product in appearance, durability, performance, and in every other respect, and we hereby submit it for your consideration as a substitute for the specified item for the above-mentioned project:

A. Proposed Substitution: VT Industries - Heritage Series

B. Reason for Substitution: Equal to specified products

C. COSTS (*Construction Phase Only* – Provide complete breakdown of costs including the cost amount to be DEDUCTED from the Contract Sum if the proposal substitution is accepted. Include documentation for both materials and labor: No change

D. SCHEDULE (*Construction Phase Only* – Describe substitution's affect on construction schedule): Will not impact project schedule

E. Supporting Data:

1. Cut sheets: Attach complete technical data, including laboratory tests, if applicable.
2. Installation: Include complete information on changes to Drawings and/or Specifications describing the steps that the proposed substitution will require for its proper installation.
3. Samples: Submit with request all necessary samples and substantiating data clearly marked to prove equal quality and performance to that which is specified.

F. List ways in which the proposed substitution affects dimensions shown on Drawing: Will not affect dimensions on drawings.

G. List effects of proposed substitution on other trades: None

H. List ways in which proposed substitution would be affected by applicable code requirements and agency approval: None

I. List differences between proposed substitution and specified item: None

J. Manufacturer's warranties of the proposed and specified items Same  Different   
 Explain: Refer to attached sample warranty.

K. List information on availability of maintenance service and source of replacement materials: N/A

L. Certification of, and Assumption of Liability for, Equivalent Performance: The undersigned states that the function, appearance, and quality of the proposed substitution is equivalent or superior to the specified item and is in full compliance with the Contract Documents and applicable regulatory requirements NOTARIZATION IS REQUIRED FOR SUPPLIER DURING BIDDING PHASE. NOTARIZATION IS REQUIRED FOR BOTH SUPPLIER AND CONTRACTOR DURING CONSTRUCTION PHASE. FAILURE TO PROVIDE DESIGNED AND NOTARIZED SUBSTITUTION REQUEST WILL RESULT IN AUTOMATIC REJECTION OF PROPOSED SUBSTITUTION.

Himmel's Architectural  
Door & Hardware  
Supplier

[Signature]  
Signature

(225) 673-8777  
Telephone

5/9/16  
Date

Signature must be by person authorized to legally bind his/her firm to the above terms. Failure to provide legally binding signature will result in rejection.

NOTARY: \_\_\_\_\_

\_\_\_\_\_  
Date

General Contractor: [Signature] **DEBORA C. STOUT**  
Notary Public  
Notary ID No. 41330  
Ascension Parish, Louisiana

\_\_\_\_\_  
Signature

NOTARY: \_\_\_\_\_

5/9/16  
Date

HIMMEL'S ARCHITECTURAL DOOR & HARDWARE  
Supplier/ Subcontractor

[Signature]  
Signature

A/E'S REVIEW AND ACTION (to be filled-in by Architect/Engineer)

- Substitution Proposal Rejected because not complete
- Substitution Accepted
- Substitution Accepted as noted
- Substitution Rejected
- Substitution Proposal Rejected because received too late.

By: [Signature]  
Date: 5/11/2016  
Remarks: \_\_\_\_\_

**SECTION 01 2531 - SUBSTITUTION REQUEST FORM**

To: Murray Architects  
13760 River Road  
Destrehan, LA 70047

Project: St. John the Baptist Parish  
Government Complex

From: KOHLER BUILDING SPECIALTIES Date: 11/27/2016

Specified Item: 095113 4 2.2-A (A) SOUNDSCAPES CLOUDS B) SOUNDSCAPES CURVED  
(Section No.) (Page No.) (Paragraph) (Description)

We believe that the following product is equal or superior to the specified product in appearance, durability, performance, and in every other respect, and we hereby submit it for your consideration as a substitute for the specified item for the above-mentioned project:

- A. Proposed Substitution: SOUND CONCEPTS - SHAPES & CANOPIES
- B. Reason for Substitution: COMPARABLE PRODUCT / COMPETITIVE PRICE
- C. COSTS (*Construction Phase Only* - Provide complete breakdown of costs including the cost amount to be DEDUCTED from the Contract Sum if the proposal substitution is accepted. Include documentation for both materials and labor: \_\_\_\_\_)
- D. SCHEDULE (*Construction Phase Only* - Describe substitution's affect on construction schedule): \_\_\_\_\_
- E. Supporting Data:
  - 1. Cut sheets: Attach complete technical data, including laboratory tests, if applicable.
  - 2. Installation: Include complete information on changes to Drawings and/or Specifications describing the steps that the proposed substitution will require for its proper installation.
  - 3. Samples: Submit with request all necessary samples and substantiating data clearly marked to prove equal quality and performance to that which is specified.
- F. List ways in which the proposed substitution affects dimensions shown on Drawing: NONE
- G. List effects of proposed substitution on other trades: NONE
- H. List ways in which proposed substitution would be affected by applicable code requirements and agency approval: NONE
- I. List differences between proposed substitution and specified item: NONE
- J. Manufacturer's warranties of the proposed and specified items Same  Different \_\_\_\_\_  
Explain: \_\_\_\_\_

K. List information on availability of maintenance service and source of replacement materials: SOUND CONCEPTS

L. Certification of, and Assumption of Liability for, Equivalent Performance: The undersigned states that the function, appearance, and quality of the proposed substitution is equivalent or superior to the specified item and is in full compliance with the Contract Documents and applicable regulatory requirements **NOTARIZATION IS REQUIRED FOR SUPPLIER DURING BIDDING PHASE. NOTARIZATION IS REQUIRED FOR BOTH SUPPLIER AND CONTRACTOR DURING CONSTRUCTION PHASE. FAILURE TO PROVIDE DESIGNED AND NOTARIZED SUBSTITUTION REQUEST WILL RESULT IN AUTOMATIC REJECTION OF PROPOSED SUBSTITUTION.**

ZACH KANTER  
Supplier

[Signature]  
Signature

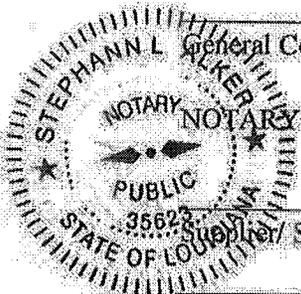
905 845 0662  
Telephone

4/20/2016  
Date

Signature must be by person authorized to legally bind his/her firm to the above terms. Failure to provide legally binding signature will result in rejection.

NOTARY: \_\_\_\_\_

\_\_\_\_\_  
Date



\_\_\_\_\_  
General Contractor

\_\_\_\_\_  
Signature

[Signature]

4/27/2016  
Date

\_\_\_\_\_  
Supplier/ Subcontractor

[Signature]  
Signature

A/E'S REVIEW AND ACTION (to be filled-in by Architect/Engineer)

- Substitution Proposal Rejected because not complete
- Substitution Accepted
- Substitution Accepted as noted
- Substitution Rejected
- Substitution Proposal Rejected because received too late.

By: [Signature]

Date: 5/10/2016

Remarks: \_\_\_\_\_

SECTION 01 2531 - SUBSTITUTION REQUEST FORM

To: Murray Architects  
13760 River Road  
Destrehan, LA 70047

Project: St. John the Baptist Parish  
Government Complex

From: KOHLER BUILDING SPECIALTIES Date: 4/27/2016

Specified Item: 09 5113 4 2.2-A 7.) USCG C7 PAIRED COMPASS  
(Section No.) (Page No.) (Paragraph) (Description)

We believe that the following product is equal or superior to the specified product in appearance, durability, performance, and in every other respect, and we hereby submit it for your consideration as a substitute for the specified item for the above-mentioned project:

- A. Proposed Substitution: GORDON - CONTURA PAIRED
- B. Reason for Substitution: COMPARABLE PRODUCT / COMPETITIVE PRODUCT
- C. COSTS (Construction Phase Only - Provide complete breakdown of costs including the cost amount to be DEDUCTED from the Contract Sum if the proposal substitution is accepted. Include documentation for both materials and labor: \_\_\_\_\_
- D. SCHEDULE (Construction Phase Only - Describe substitution's affect on construction schedule): \_\_\_\_\_
- E. Supporting Data:
  - 1. Cut sheets: Attach complete technical data, including laboratory tests, if applicable.
  - 2. Installation: Include complete information on changes to Drawings and/or Specifications describing the steps that the proposed substitution will require for its proper installation.
  - 3. Samples: Submit with request all necessary samples and substantiating data clearly marked to prove equal quality and performance to that which is specified.
- F. List ways in which the proposed substitution affects dimensions shown on Drawing: NONE
- G. List effects of proposed substitution on other trades: NONE
- H. List ways in which proposed substitution would be affected by applicable code requirements and agency approval: NONE
- I. List differences between proposed substitution and specified item: NONE
- J. Manufacturer's warranties of the proposed and specified items Same  Different   
Explain: \_\_\_\_\_

K. List information on availability of maintenance service and source of replacement materials: GORDON

L. Certification of, and Assumption of Liability for, Equivalent Performance: The undersigned states that the function, appearance, and quality of the proposed substitution is equivalent or superior to the specified item and is in full compliance with the Contract Documents and applicable regulatory requirements. **NOTARIZATION IS REQUIRED FOR SUPPLIER DURING BIDDING PHASE. NOTARIZATION IS REQUIRED FOR BOTH SUPPLIER AND CONTRACTOR DURING CONSTRUCTION PHASE.** FAILURE TO PROVIDE DESIGNED AND NOTARIZED SUBSTITUTION REQUEST WILL RESULT IN AUTOMATIC REJECTION OF PROPOSED SUBSTITUTION.

ZACH KOHLER (KBS)  
Supplier

[Signature]  
Signature

985 845 0662  
Telephone

4/27/2016  
Date

Signature must be by person authorized to legally bind his/her firm to the above terms. Failure to provide legally binding signature will result in rejection.

NOTARY: \_\_\_\_\_

\_\_\_\_\_  
Date

\_\_\_\_\_  
General Contractor

\_\_\_\_\_  
Signature

[Signature]  
NOTARY NOTARY

4/27/2016  
Date

\_\_\_\_\_  
Supplier/ Subcontractor

[Signature]  
Signature

A/E'S REVIEW AND ACTION (to be filled-in by Architect/Engineer)

- Substitution Proposal Rejected because not complete
- Substitution Accepted
- Substitution Accepted as noted
- Substitution Rejected
- Substitution Proposal Rejected because received too late.

By: [Signature]

Date: 5/10/2016

Remarks: \_\_\_\_\_

SECTION 01 2531 – SUBSTITUTION REQUEST FORM

To: Murray Architects  
13760 River Road  
Destrehan, LA 70047

Project: St. John the Baptist Parish  
Government Complex

From: American Metalcraft Inc.

Date: 5/10/16

Specified Item: 074219      5      2.4      Metal Plate Wall Panels  
(Section No.) (Page No.) (Paragraph) (Description)

We believe that the following product is equal or superior to the specified product in appearance, durability, performance, and in every other respect, and we hereby submit it for your consideration as a substitute for the specified item for the above-mentioned project:

- A. Proposed Substitution: American Metalcraft Inc. Rainscreen 100 Aluminum Plate Wall Panel System
- B. Reason for Substitution: Complying with Section 01 6000 1.4 Comparable Product Request by Manufacturer.
- C. COSTS (*Construction Phase Only* – Provide complete breakdown of costs including the cost amount to be DEDUCTED from the Contract Sum if the proposal substitution is accepted. Include documentation for both materials and labor: N/A as American Metalcraft Inc. is a manufacturer.
- D. SCHEDULE (*Construction Phase Only* – Describe substitution's affect on construction schedule): AMI RS-100 will affect the construction schedule in a positive way.  
We are able to fabricate and finish the panels in-house which saves valuable time.
- E. Supporting Data:
  - 1. Cut sheets: Attach complete technical data, including laboratory tests, if applicable.
  - 2. Installation: Include complete information on changes to Drawings and/or Specifications describing the steps that the proposed substitution will require for its proper installation.
  - 3. Samples: Submit with request all necessary samples and substantiating data clearly marked to prove equal quality and performance to that which is specified.
- F. List ways in which the proposed substitution affects dimensions shown on Drawing: AMI RS-100 will not affect the dimensions on the drawings.
- G. List effects of proposed substitution on other trades: RS-100 will not affect other trades.
- H. List ways in which proposed substitution would be affected by applicable code requirements and agency approval: None
- I. List differences between proposed substitution and specified item:
- J. Product is "equal to": AMI is able to complete shop drawings, fabricate, and finish the panels all in-house which saves time and money not having to ship to the finishers.
- K. Manufacturer's warranties of the proposed and specified items Same  Different X  
Explain: AMI exceeds the specified warranty / 2 Workmanship & 20 Finish

- L. List information on availability of maintenance service and source of replacement materials: Maintenance will provided by the subcontractor or contractor.  
As a manufacturer AMI can provided replacement panels if applicable.
- M. Certification of, and Assumption of Liability for, Equivalent Performance: The undersigned states that the function, appearance, and quality of the proposed substitution is equivalent or superior to the specified item and is in full compliance with the Contract Documents and applicable regulatory requirements **NOTARIZATION IS REQUIRED FOR SUPPLIER DURING BIDDING PHASE. NOTARIZATION IS REQUIRED FOR BOTH SUPPLIER AND CONTRACTOR DURING CONSTRUCTION PHASE.** FAILURE TO PROVIDE DESIGNED AND NOTARIZED SUBSTITUTION REQUEST WILL RESULT IN AUTOMATIC REJECTION OF PROPOSED SUBSTITUTION.

American Metalcraft Inc.  
 Supplier

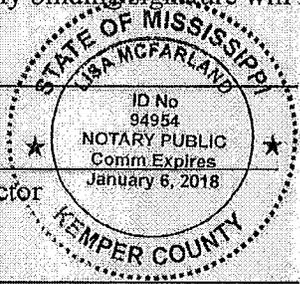
[Signature]  
 Signature

769-489-5007  
 Telephone

5/10/16  
 Date

Signature must be by person authorized to legally bind his/her firm to the above terms. Failure to provide legally binding signature will result in rejection.

NOTARY: [Signature]  
 General Contractor



5/10/16  
 Date  
[Signature]  
 Signature

NOTARY: American Metalcraft Inc.  
 Supplier/ Subcontractor

[Signature]  
 Date  
[Signature]  
 Signature

**A/E'S REVIEW AND ACTION (to be filled-in by Architect/Engineer)**

- Substitution Proposal Rejected because not complete
  - Substitution Accepted
  - Substitution Accepted as noted
  - Substitution Rejected
  - Substitution Proposal Rejected because received too late.
- By: [Signature]  
 Date: 5/11/2016  
 Remarks: \_\_\_\_\_

**Table 3-3 Southern Pine Foundation Piling – Specified Butt Circumferences with Corresponding Minimum Tip Circumferences<sup>A,B,C,D,E</sup> (from ASTM D25 - Table X1.3)**  
 [Approximate Diameters in Brackets]

Required Minimum Circumference, in. 3 ft from Butts	22 [7]	25 [8]	28 [9]	<b>31 [10]</b>	35 [11]	38 [12]	41 [13]	44 [14]	47 [15]	50 [16]	57 [18]
Length (ft)	Minimum Tip Circumferences, in.										
20	16 [5.1]	16 [5.1]	18 [5.7]	21 [6.7]	25 [8.0]	<b>28 [8.9]</b>	<b>31 [9.9]</b>	<b>34 [10.8]</b>	<b>37 [11.8]</b>	40 [12.7]	47 [15.0]
25	16 [5.1]	16 [5.1]	17 [5.4]	20 [6.4]	24 [7.6]	<b>27 [8.6]</b>	<b>30 [9.5]</b>	<b>33 [10.5]</b>	<b>36 [11.4]</b>	39 [12.4]	46 [14.6]
30	16 [5.1]	16 [5.1]	16 [5.1]	19 [6.0]	23 [7.3]	<b>26 [8.3]</b>	<b>29 [9.2]</b>	<b>32 [10.2]</b>	<b>35 [11.1]</b>	38 [12.1]	45 [14.3]
<b>35</b>				<b>18 [5.7]</b>	22 [7.0]	<b>25 [8.0]</b>	<b>28 [8.9]</b>	<b>31 [9.9]</b>	<b>34 [10.8]</b>	37 [11.8]	44 [14.0]
40				17 [5.4]	21 [6.7]	<b>24 [7.6]</b>	<b>27 [8.6]</b>	<b>30 [9.5]</b>	<b>33 [10.5]</b>	36 [11.4]	43 [13.7]
45					20 [6.4]	<b>23 [7.3]</b>	<b>26 [8.3]</b>	<b>29 [9.2]</b>	<b>32 [10.2]</b>	35 [11.1]	42 [13.4]
50					19 [6.0]	<b>22 [7.0]</b>	<b>25 [8.0]</b>	<b>28 [8.9]</b>	<b>31 [9.9]</b>	34 [10.8]	41 [13.0]
55						<b>21 [6.7]</b>	<b>24 [7.6]</b>	<b>27 [8.6]</b>	<b>30 [9.5]</b>	33 [10.5]	40 [12.7]
60						<b>20 [6.4]</b>	<b>23 [7.3]</b>	<b>26 [8.3]</b>	<b>29 [9.2]</b>	32 [10.2]	39 [12.4]
65						19 [6.0]	<b>22 [7.0]</b>	<b>25 [8.0]</b>	<b>28 [8.9]</b>	31 [9.9]	38 [12.1]
70						18 [5.7]	<b>21 [6.7]</b>	<b>24 [7.6]</b>	27 [8.6]	30 [9.5]	37 [11.8]
75							<b>20 [6.4]</b>	23 [7.3]	26 [8.3]	29 [9.2]	36 [11.4]
80							19 [6.0]	22 [7.0]	25 [8.0]	28 [8.9]	35 [11.1]
85							18 [5.7]	21 [6.7]	24 [7.6]	27 [8.6]	34 [10.8]

Commonly available sizes are shown within the bold outline:

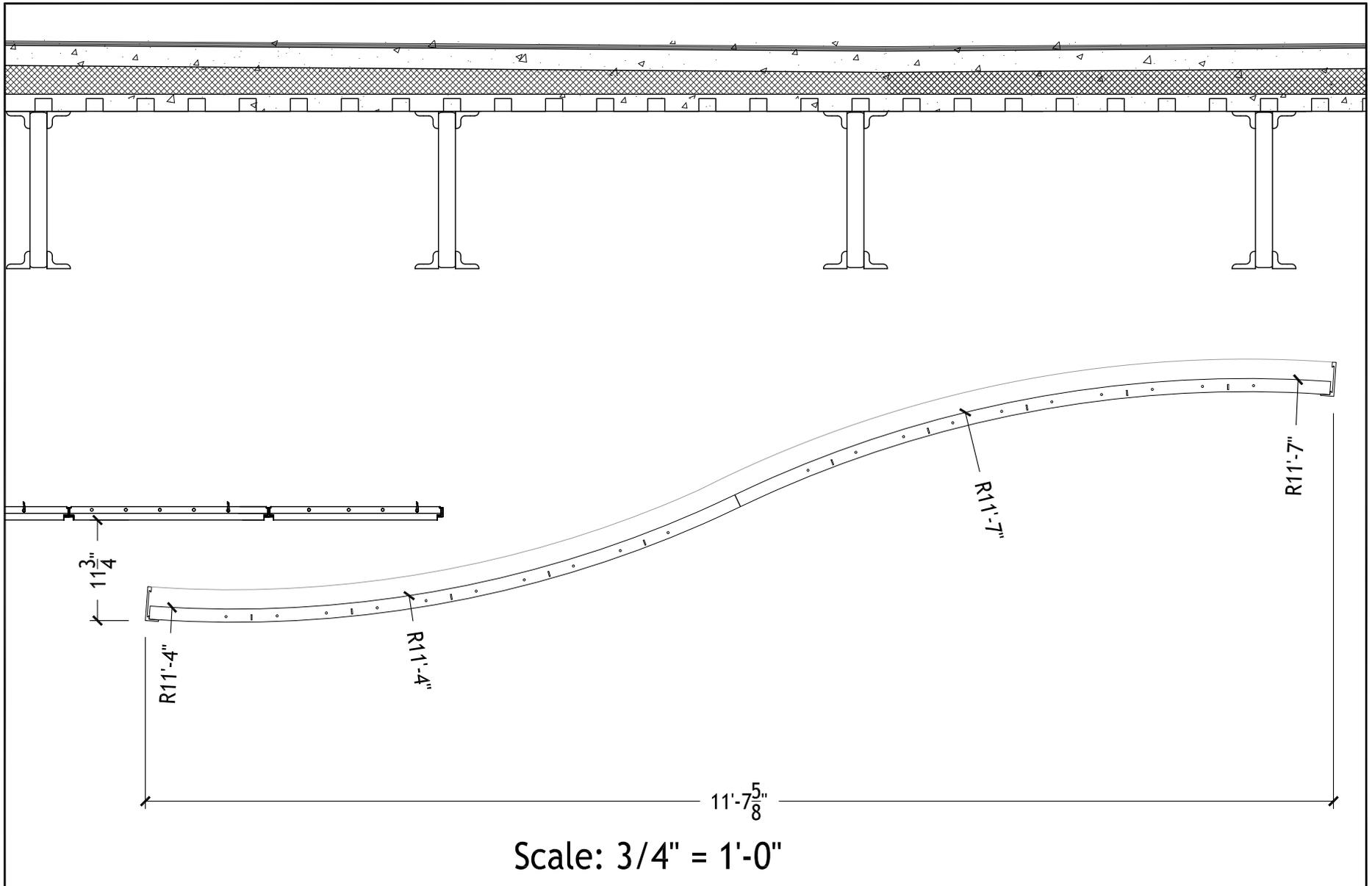
<sup>A</sup> Where the taper applied to the butt circumferences calculate to a circumference at the tip of less than 16 in., the individual values have been increased to 16 in. to ensure a minimum of 5-in. tip for purposes of driving.

<sup>B</sup> To convert to metric dimensions, 1 in. = 25.4 mm.

<sup>C</sup> Class A piles are all those listed with a specified required minimum circumference of 44 in. at 3 ft from butt.

<sup>D</sup> Class B piles are those listed with a specified required minimum circumference at 3 ft from butt of 35 in. and lengths of 20 to 25 ft minimum circumference at 3 ft from butt of 38 in. and lengths of 20 to 50 ft, and minimum circumference at 3 ft from butt of 41 in. and lengths of 55 to 80 ft.

<sup>E</sup> Southern Yellow Pine piles are generally available in lengths shorter than 70 ft or girth of less than 50 in. at 3 ft from butt. The purchaser should inquire as to availability of sizes below the lines.



Scale: 3/4" = 1'-0"



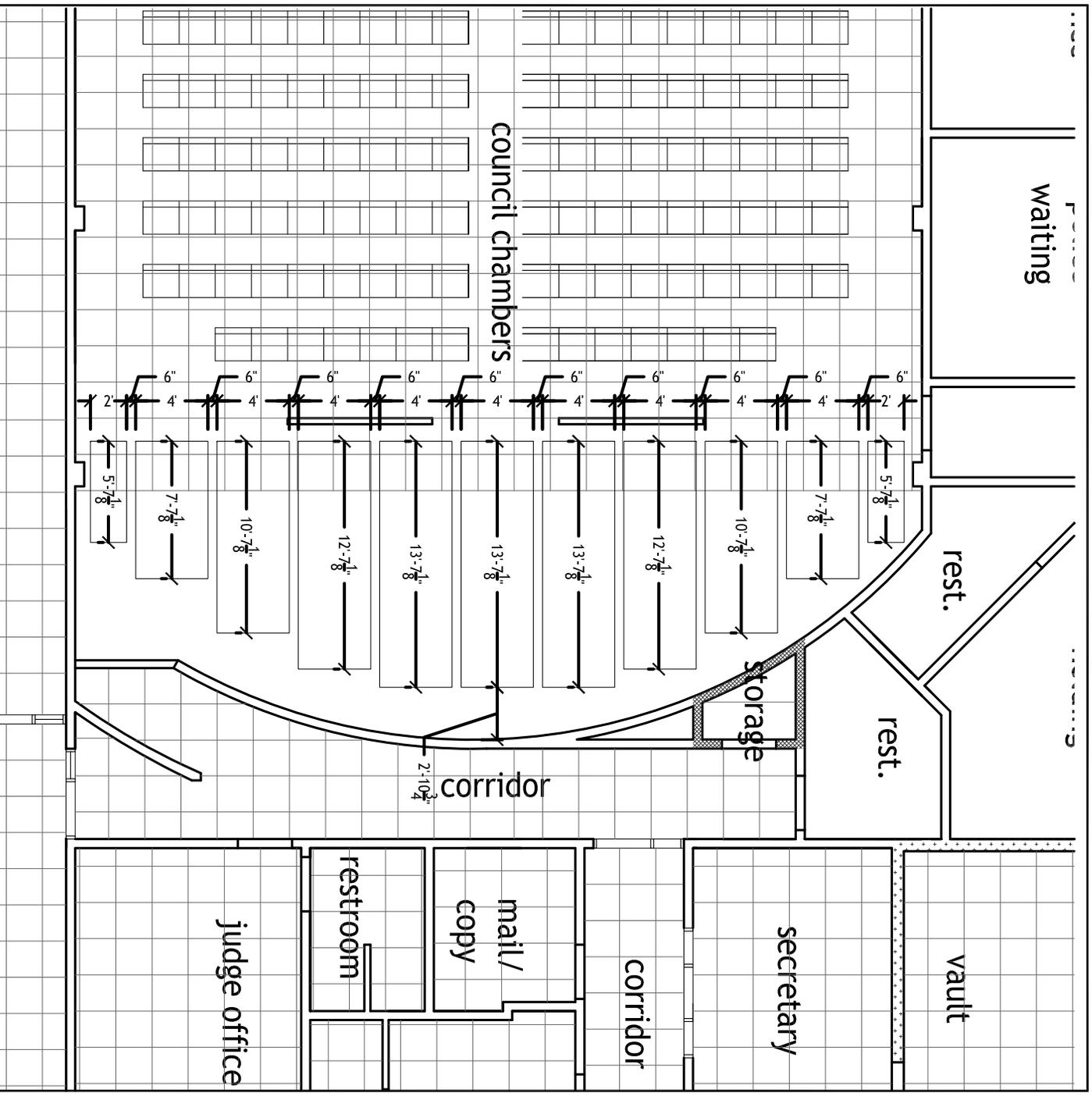
131 ormond center court  
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St. John Government Complex

sketch description

Serpentina Waves

project number 0843	date 5.10.16	drawing number <b>ASK-08</b>
file name A-6/A.3.7		this drawing modifies:
issued for Addenda no. 2		A-6/A.3.7



**Reflective Ceiling Plan @ council  
Chambers Serpentina Waves**

**Scale: 1/8"=1'-0"**

131 ormond center court  
destrehan, la 70047  
(985) 764 - 7275  
fax (985) 725 - 0182

St. John Parish Government Complex	sketch description
Reflective Ceiling Plan	

project no. 0843	date 5.12.16	drawing number <b>ASK-09</b>
file name ADDENDA NO. 2	A.6.0	
issued for ADDENDA NO. 2	A.6.0	this drawing modifies A.6.0