# ADDENDUM No. 2: November 15, 2018

**PROJECT:** **Saint John the Baptist**
**Westbank Public Safety Complex**
**PROJECT NO.:** **STBA 21238.00**

**FROM:** SIZELER THOMPSON BROWN ARCHITECTS
300 Lafayette Street, Suite 200
New Orleans, Louisiana 70130
(504) 523-6472

**TO:** All on Record holding Bid Documents

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated October 15, 2018. The contents of this Addendum shall be included in the Contract Documents when the Agreement is executed. Changes made by this Addendum take precedence of the Documents of earlier date.

Bidders are advised to call attention of all sub-bidders and suppliers to changes, which may affect their work.

Acknowledge receipt of this Addendum in the space provided on the Bid Form.

## MODIFICATIONS TO THE SPECIFICATIONS

1. **00 0110 Table of Contents**

   Deleted the following sections from the table of contents:

   02 4100 - Demolition
   03 5400 – Cast Underlayment
   04 2000 – Unit Masonry
   05 3100 – Steel Decking
   07 2423 – Direct- Applied Finish Systems
   07 4113 – Metal Roof Panels
   07 6200 – Sheet Metal Flashing and Trim
   07 9513 – Expansion Joint Cover Assemblies
   09 3000 – Tiling
   09 6513.13 – Resilient Base
   09 6813 – Tile Carpeting
   10 2113.16 – Plastic Laminate – Clad Toilet Compartments
   26 3213 – Engine Generators

31 6200 – Driven Piles

Add the following section to the Table of Contents:
10 7500 - Flagpoles

2. **00 4113A Louisiana Uniform Public Work Bid Form – Bid Bond**

   Revised the project name on the Bid Bond.

3. **01 7900 Demonstration and Training**

   Added this section in its entirety.

4. **08 1113 Hollow Metal Doors and Frames**

   Added this section in its entirety.

5. **08 1416 Flush Wood Doors**

   Added this section in its entirety.

6. **08 7100 Door Hardware**

   Added this section in its entirety.

7. **10 7500 Flagpoles**

   Added this section in its entirety.

8. **13 3419 Metal Building Systems**

   Added this section in its entirety.

**MODIFICATIONS TO THE DRAWINGS**

1. **Sheet G101 Title Sheet Volume 1 of 2**

   Added text: "Volume 1 of 2".

2. **Sheet G101.2 Index of Drawing Volume 2 of 2**

   Added this sheet in its entirety.

3. **Sheet G102 Code Review, Index of Drawing Volume 1 of 2**

   Revised sheet index, project location, and the gross area of the project.

4. **Sheet G201 Fire/Life Safety Plans**

   Revised drawing to indicate and identify fire extinguisher cabinets

5. **Sheet R001 Reference Drawing – Content By Others**

   Add this Reference Sheet in its entirety. (FOR REFERENCE ONLY)

6. **Sheet A101 Site Plan**

   Revised the gross area square footage.

7. **Sheet A201 Building Floor Plan**

   Revised sidewalk and Generator enclosure.

8. **Sheet A202 Dimension Plan**

   Revised dimensions where indicated by clouds.

9. **Sheet A203 Slab Plan**

   Revised dimensions where indicated by clouds.

10. **Sheet A701 1st Floor Finish Plan**

    Revised this drawing where indicated by the clouds.

11. **Sheet A701 1st Floor Finish Plan**

Revised this drawing where indicated by the clouds.

**12. <u>Sheet A702 Signage Plan</u>**

Revised placement of signage plan on sheet.

**13. <u>Sheet A801 Interior Elevations</u>**

Revised dispatch window size and head height.

**14. <u>Sheet A821 Millwork Details</u>**

Revised this drawing where indicated by the clouds.

**15. <u>Sheet A903 Schedules (Doors and Windows)</u>**

Revise Door Schedule and Fire Shutter Elevation.

**16. <u>Sheet A907 Window Details</u>**

Revise this drawing where indicated by the clouds.

**17. <u>Sheet M201 Mechanical Plan</u>**

Added second set of intake and exhaust for additional tankless water heater.

**18. <u>Sheet P001 Plumbing Symbols, Schedules, and Notes</u>**

a. Removed hot water return pump from schedule.
b. Changed water heater schedule to reflect tankless water heaters.

**19. <u>Sheet P201 Underground Plumbing Plan</u>**

a. Removed drain for RV.
b. Moved building end cleanout.
c. Added note referring to concrete pad around cleanout.
d. Changed incoming gas size to reflect load increase for tankless water heaters.

**20. <u>Sheet P202 Plumbing Plan</u>**

a. Removed drain for RV.
b. Moved building end cleanout.

c. Added note referring to concrete pad around cleanout.
d. Changed incoming gas size to reflect load increase for tankless water heaters.
e. Added second water heater due to change from tank type to tankless water heaters

**21. <u>Sheet P401 Riser Diagrams – Domestic Water & Natural Gas Diagram</u>**

a. Removed hot water return pump and piping.
b. Changed gas sizes due to change from tank type water heater to tankless water heaters.

**22. <u>Sheet P402 Riser Diagrams – Waste and Vent</u>**

Removed drain for RV.

**23. <u>Sheet E001 Electrical Symbols</u>**

Added telecommunications outlet subscript modifiers.

**24. <u>Sheet E003 Electrical Notes and Schedules</u>**

Revised Light Fixture Type 'F23' to the Lighting Fixture Schedule.

**25. <u>Sheet E101 Electrical Site Plan</u>**

Shifted location of the generator Southwest 5'-6".

**26. <u>Sheet E201 Lighting Plan</u>**

a. Added information including Sheet Specific Note #4 to clarify installation of light fixtures in Storage 111.
b. Added Sheet Specific Note #5 to clarify installation of Type 'E2' in Apparatus Bays 106.
c. Added Sheet Specific Note #6 to clarify installation of Type 'F13' in Vestibule 100.
d. Added Location of Lighting Contactor, Time switch, and photo relay that control exterior lighting.

**27. <u>Sheet E301 Power Plans</u>**

a. Added 120V power at multiple doors for future access control system devices.
b. Added 50A receptacle on West exterior of building for Mobile Command Center power.

c. Added Sheet Specific Note #11.

**28. <u>Sheet E401 Communications Plans Plan</u>**

a. Moved Intercom System devices to be shown on Fire Alarm Plan.
b. Renamed "Fire Alarm Plan" to "Fire Alarm and Intercom System Plan".
c. Revised quantities and locations of the CCTV Camera outlets.
d. Added Audio/Video provisions in Vestibule 100, Dayroom 101, Sheriff's Office 109, and Squad/Conference 110.
e. Revised Sheet Specific Note #2.
f. Added Sheet Specific Note #9.

**29. <u>Sheet E501 Electrical Enlarged Plans, Sections, and Elevations</u>**

a. Added "Exterior Lighting Section – Front Sign"
b. Added "Interior Lighting Section – Apparatus Bay"
c. Added "Interior Lighting Elevation A – Storage 111"
d. Added "Interior Lighting Elevation B – Storage 111"

**30. <u>Sheet E601 Power Riser Diagram and Panel Schedules</u>**

a. Added branch circuits to Panels P1 and P2.
b. Added note to Power Riser Diagram clarifying that generator is to be provided by the Owner and Installed by the Contractor.

**31. <u>Sheet E802 Electrical Details</u>**

a. Revised "Lighting Control Schematic – Exterior Lighting"
b. Revised "Pole Base Wiring Diagram"

**32. <u>Sheet E805 Electrical Details</u>**

Added Outlets to the "Telecommunications Outlet Details" including those associated with A/V and CCTV camera provisions.

**<u>QUESTIONS RECEIVED:</u>**

The following questions were presented to Sizeler Thompson Brown Architects. The answers are in ***bold and italics*** print.

1. Some Specifications listed on 00 0110 - Table of Contents are missing from the Project Manual.

***Section 00 0110 Table of Contents is to be deleted and replaced with the revised Section 00 0110 included in this Addenda #2.***

This ADDENDUM consists of:

SEVEN (7) TYPE WRITTEN ADDENDUM PAGES, THIRTY ONE (31) FULL SIZE DRAWINGS, NINETY ONE (91) SPECIFICATION PAGES.

**ATTACHMENTS**

- SPECIFICATIONS :
  00 0110 TABLE OF CONTENTS (6 PAGES)
  01 7900 DEMONSTRATION AND TRAINING (8 PAGES)
  08 1113 HOLLOW METAL DOOR AND FRAMES (12 PAGES)
  08 1416 FLUSH WOOD DOORS (8 PAGES)
  08 7100 DOOR HARDWARE (26 PAGES)
  10 7500 FLAGPOLES (3 PAGES)
  13 3419 METAL BUILDING SYSTEMS (24 PAGES)

- DRAWINGS : G101, G102, G201, R001, A101, A201, A202, A203, A701, A702, A801, A821, A903, A907, G101.2, M201, P001, P201, P202, P401, P402, E001, E003, E101, E201, E301, E401, E502, E602, E802, E805

for a total of ONE HUNDRED & THIRTY ONE (131) DOCUMENT SHEETS.

## DOCUMENT 00 0110

## TABLE OF CONTENTS

**No. of Pages**

### INTRODUCTORY INFORMATION

00 0103 - PROJECT DIRECTORY ..... 1
00 0107 – SEALS PAGE ..... 6
00 0110 - TABLE OF CONTENTS ..... 6

### BIDDING REQUIREMENTS

00 1113 - ADVERTISEMENT FOR BIDS ..... 2
00 2113 – INSTRUCTIONS TO BIDDERS ..... 7
00 2119 – CAUTION TO BIDDERS ..... 1
00 3119 – EXISTING CONDITION INFORMATION ..... 1
00 3132 – GEOTECHNICAL DATA ..... 1
00 4113 - LOUISIANA UNIFORM PUBLIC WORK BID FORM ..... 3
00 4393 – BID SUBMITTAL CHECKLIST ..... 1
00 4510 – EVIDENCE OF AGENCY, CORPORATE, OR PARTNERSHIP AUTHORITY ..... 2
00 4519 – NON-COLLUSION AFFIDAVIT ..... 2
00 4529 – INSURANCE REQUIREMENTS ..... 2
00 4543 - CORPORATE RESOLUTION ..... 2
00 4549 – ATTESTATION AFFIDAVITS ..... 4

### CONTRACTING REQUIREMENTS

00 5213 – AGREEMENT FORM – STIPULATED SUM ..... 7
00 6113 – PERFORMANCE BOND AND PAYMENT BOND FORMS ..... 1
00 7200 – GENERAL CONDITIONS ..... 48

### DIVISION 1 - GENERAL REQUIREMENTS

01 1000 - SUMMARY ..... 8
01 1028 – PARISH TAX EXEMPT STATUS- FILING PROCEDURES ..... 2
01 2300 – ALTERNATES ..... 3
01 2600 - CONTRACT MODIFICATION PROCEDURES ..... 2
01 2900 - PAYMENT PROCEDURES ..... 3
01 3100 - PROJECT MANAGEMENT AND COORDINATION ..... 3
01 3100.13 - REQUEST FOR INFORMATION ..... 1
01 3119 - PROJECT MEETINGS ..... 4
01 3200 – CONSTRUCTION PROGRESS DOCUMENTATION ..... 8
01 3233 – PHOTOGRAPHIC DOCUMENTATION ..... 4
01 3300 - SUBMITTAL PROCEDURES ..... 5
01 3310 - REQUEST FOR ELECTRONIC DATA ..... 2

**No. of Pages**

**DIVISION 1 GENERAL REQUIREMENTS (CONTINUED)**

01 4000 – QUALITY REQUIREMENTS ..... 11
01 4200 - REFERENCES ..... 3
01 4529 – TESTING LABORATORY SERVICES ..... 3
01 5000 - TEMPORARY FACILITIES AND CONTROLS ..... 11
01 5813 – TEMPORARY PROJECT SIGNAGE ..... 3
01 5819 - ARCHITECT'S IDENTIFICATION SIGN ..... 3
01 6000 - PRODUCT REQUIREMENTS ..... 4
01 6116 – VOLATILE ORGANIC COMPOUND (VOC) CONTENT RESTRICTIONS ..... 4
01 6300 - PRODUCT SUBSTITUTION PROCEDURES ..... 3
01 6310 - SUBSTITUTION REQUEST FORM ..... 3
01 7123 – FIELD ENGINEERING ..... 7
01 7329 – CUTTING AND PATCHING ..... 4
01 7700 - CLOSEOUT PROCEDURES ..... 7
01 7800 - CLOSEOUT SUBMITTALS ..... 3
01 7830 – OPERATION AND MAINTENANCE DATA ..... 8
**01 7900 – DEMONSTRATION AND TRAINING ..... 8**

**DIVISION 2 – EXISTING CONDITIONS**

~~**02 4100 – DEMOLITION ..... 11**~~

**DIVISION 3 – CONCRETE**

03 0505 – UNDERSLAB VAPOR BARRIER ..... 2
03 3000 – CAST-IN-PLACE CONCRETE ..... 19
~~**03 5400 – CAST UNDERLAYMENT ..... 4**~~

**DIVISION 4 – MASONRY**

~~**04 2000 – UNIT MASONRY ..... 14**~~

**DIVISION 5 - METALS**

05 1200 – STRUCTURAL STEEL FRAMING ..... 11
~~**05 3100 - STEEL DECKING ..... 4**~~
05 4000 – COLD-FORMED METAL FRAMING ..... 10
05 5000 – METAL FABRICATIONS ..... 6

**DIVISION 6 - WOOD AND PLASTICS**

06 1000 - ROUGH CARPENTRY ..... 5
06 4100 – ARCHITECTURAL WOOD CASEWORK ..... 10

**No. of Pages**

**DIVISION 7 – THERMAL AND MOISTURE PROTECTION**

07 2100 – THERMAL INSULATION ..... 4
~~**07 2423 – DIRECT APPLIED FINISH SYSTEMS ..... 10**~~
07 2500 – WEATHER BARRIERS ..... 6
~~**07 4113 – METAL ROOF PANELS ..... 13**~~
~~**07 6200 – SHEET METAL FLASHING ..... 9**~~
07 8400 - FIRESTOPPING ..... 10
07 9005 - JOINT SEALERS ..... 11
~~**07 9513 – EXPANSION JOIN COVER ASSEMBLIES ..... 7**~~

**DIVISION 8 - DOORS AND WINDOWS**

**08 1113 – HOLLOW METAL DOORS AND FRAMES ..... 12**
**08 1416 – FLUSH WOOD DOORS ..... 8**
08 3100 – ACCESS DOORS AND PANELS ..... 4
08 3313 – COILING COUNTER DOORS ..... 4
08 3613 – SECTIONAL DOORS ..... 7
08 4313 – ALUMINUM-FRAMED STOREFRONTS ..... 12
08 5400 – ALUMINUM CLAD WINDOWS ..... 7
**08 7100 - DOOR HARDWARE ..... 26**
08 8000 - GLAZING ..... 14
08 8300 – MIRRORS ..... 4

**DIVISION 9 - FINISHES**

09 0561 – COMMON WORK RESULTS FOR FLOORING PREPARATION ..... 7
09 2116 – GYPSUM BOARD ASSEMBLIES ..... 10
~~**09 3000 – TILING ..... 13**~~
09 5100 – ACOUSTICAL CEILINGS ..... 7
09 6500 – RESILIENT FLOORING ..... 6
~~**09 6513.13 – RESILIENT BASE ..... 3**~~
~~**09 6813 – TILE CARPETING ..... 5**~~
09 9000 – PAINTING AND COATING ..... 9
09 9600 – HIGH PERFORMANCE COATINGS ..... 5

**DIVISION 10 – SPECIALTIES**

10 1400 – SIGNAGE ..... 6
~~**10 2113.16 – PLASTIC-LAMINATE-CLAD TOILET COMPARTMENTS ..... 4**~~
10 2829 – UNDERSINK LAVATORY PIPE INSULATION ..... 4
10 4400 – FIRE PROTECTION SPECIALTIES ..... 6
**10 7500 - FLAGPOLES ..... 3**

**DIVISION 11 – EQUIPMENT (NOT USED)**

**No. of Pages**

11 3100 – RESIDENTIAL APPLIANCES ..... 4

**DIVISION 12 – FURNISHINGS**

12 3530 – RESIDENTIAL CASEWORK ..... 6
12 3600 – COUNTERTOPS ..... 5
12 4816 – ENTRANCE FLOOR GRILLES ..... 6

**DIVISION 13 - SPECIAL CONSTRUCTION (NOT USED)**

**13 3419 – METAL BUILDING SYSTEMS ..... 24**

**DIVISION 14 - CONVEYING SYSTEMS (NOT USED)**

**DIVISION 21 – FIRE SUPPRESSION**
21 0500 – COMMON WORK RESULTS FOR FIRE SUPPRESSION ..... 12
21 1000 – WATER-BASED FIRE SUPPRESSION SYSTEMS ..... 8

**DIVISION 22 – PLUMBING**

22 0100 - BASIC PLUMBING REQUIREMENTS ..... 14
22 0517 - SLEEVES AND SLEEVE SEALS FOR PLUMBING PIPING ..... 6
22 0518 - ESCUTCHEONS FOR PLUMBING PIPING ..... 2
22 0519 - METERS AND GAGES FOR PLUMBING PIPING ..... 8
22 0523 - GENERAL-DUTY VALVES FOR PLUMBING PIPING ..... 14
22 0529 - HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT ..... 12
22 0553 - IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT ..... 6
22 0700 - PLUMBING INSULATION ..... 18
22 1116 - DOMESTIC WATER PIPING ..... 20
22 1119 - DOMESTIC WATER PIPING SPECIALTIES ..... 14
22 1123 - DOMESTIC WATER PUMPS ..... 6
22 1316 - SANITARY WASTE & VENT PIPING ..... 12
22 1319 - SANITARY WASTE PIPING SPECIALTIES ..... 14
22 1623 - FACILITY NATURAL GAS PIPING ..... 22
22 3400 - FUEL-FIRED, DOMESTIC-WATER HEATERS ..... 8
22 4000 - PLUMBING FIXTURES ..... 16

**DIVISION 23 – HEATING, VENTILATING, AND AIR CONDITIONING (HVAC)**

23 0100 - BASIC MECHANICAL REQUIREMENTS ..... 14
23 0513 - COMMON MOTOR REQUIREMENTS FOR HVAC EQUIPMENT ..... 4
23 0517 - SLEEVES AND SLEEVE SEALS FOR HVAC PIPING ..... 6
23 0518 - ESCUTCHEONS FOR HVAC PIPING ..... 4
23 0529 - HANGERS AND SUPPORTS FOR HVAC PIPING AND EQUIPMENT ..... 12
23 0548 - VIBRATION CONTROLS FOR HVAC ..... 8
23 0593 - TESTING, ADJUSTING, AND BALANCING FOR HVAC ..... 15

**No. of Pages**

23 0700 - HVAC INSULATION ..... 30
23 2300 - REFRIGERANT PIPING ..... 12
23 3113 - METAL DUCTS ..... 19
23 3300 - AIR DUCT ACCESSORIES ..... 14
23 3423 - HVAC POWER VENTILATORS ..... 8
23 3522 - STRAIGHT RAIL VEHICLE EXHAUST REMOVAL SYSTEM ..... 20
23 3713 - DIFFUSERS, REGISTERS, AND GRILLES ..... 4
23 8126 - SPLIT-SYSTEM AIR CONDITIONERS ..... 10
23 8128 - DUCTLESS SPLIT SYSTEM AIR CONDITIONERS ..... 8

**DIVISION 25 – INTEGRATED AUTOMATION (NOT USED)**

**DIVISION 26 – ELECTRICAL**

26 0500 - COMMON WORK RESULTS FOR ELECTRICAL ..... 18
26 0519 - LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES ..... 12
26 0526 - GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS ..... 8
26 0529 - HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS ..... 6
26 0533 - RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS ..... 14
26 0548 - VIBRATION CONTROLS FOR ELECTRICAL SYSTEMS ..... 6
26 0553 - IDENTIFICATION FOR ELECTRICAL SYSTEMS ..... 6
26 0573 - OVERCURRENT PROTECTIVE DEVICE COORDINATION STUDY ..... 8
26 0923 - LIGHTING CONTROL DEVICES ..... 20
26 2416 – PANELBOARDS ..... 8
26 2726 - WIRING DEVICES ..... 14
26 2813 – FUSES ..... 4
26 2816 - ENCLOSED SWITCHES AND CIRCUIT BREAKERS ..... 8
26 2913 - ENCLOSED CONTROLLERS ..... 12
~~**26 3213 - ENGINE GENERATORS ..... 18**~~
26 3600 - TRANSFER SWITCHES ..... 10
26 4113 - LIGHTNING PROTECTION FOR STRUCTURES ..... 6
26 4313 - SURGE PROTECTIVE DEVICES FOR LOW VOLTAGE ELECTRICAL POWER CIRCUITS ..... 6
26 5100 - INTERIOR/EXTERIOR LIGHTING ..... 24

**DIVISION 27 – COMMUNICATIONS**

27 0500 - COMMON WORK RESULTS FOR COMMUNICATION ..... 6
27 1100 - COMMUNICATIONS EQUIPMENT ROOM FITTINGS ..... 16
27 1500 - COMMUNICATIONS HORIZONTAL CABLING ..... 18
27 5123.50 - EDUCATIONAL INTERCOMMUNICATIONS AND PROGRAM SYSTEMS ..... 12

**DIVISION 28 – ELECTRONIC SAFETY AND SECURITY (NOT USED)**

28 1300 - ACCESS CONTROL ..... 10

**No. of Pages**

28 2300 – VIDEO SURVEILLANCE ..... 24
28 3111 - DIGITAL, ADDRESSABLE FIRE ALARM SYSTEM..... 26

**DIVISION 31 – EARTHWORK**

31 1000 – SITE CLEARING ..... 6
31 2000 – EARTHWORK (SITE) ..... 10
31 2110 – EARTH MOVING (BUILDING PAD) ..... 11
31 3116 – TERMITE CONTROL ..... 5
~~**31 6200 – DRIVEN PILES ..... 6**~~
31 6219 – TIMBER PILES ..... 8

**DIVISION 32 – EXTERIOR IMPROVEMENTS**

32 1313 – CEMENT CONCRETE PAVEMENT ..... 8
32 1723 – PAVEMENT MARKINGS ..... 2

**DIVISION 33 – UTILITIES (NOT USED)**

33 1416 – SITE WATER DISTRIBUTION ..... 10
33 3113 – SITE SANITARY SEWER..... 7
33 4200 – SITE STORM DRAINAGE ..... 11

**APPENDIXES**

APPENDIX A/GEOTECHNICAL INVESTIGATION..... 26

**END OF DOCUMENT**

# DOCUMENT 00 4113

## BID FORM

**A. Bid Form:** The Bid Form(s) to be used for this Contract for this Contract for Construction shall be provided by the Parish of St. John the Baptist and are bound in this Project Manual following this page.

**END OF DOCUMENT**

THIS PAGE IS BLANK

# LOUISIANA UNIFORM PUBLIC WORK BID FORM

**TO:** St. John the Baptist Parish Council
1801 West Airline Hwy.
LaPlace, La 70068

*(Owner to provide name and address of owner)*

**BID FOR:** St. John the Baptist Parish
West Bank Safety Complex
5739 Highway 18
Edgard, La 70049

(*Owner to provide name of project and other identifying information)*

The undersigned bidder hereby declares and represents that she/he; a) has carefully examined and understands the Bidding Documents, b) has not received, relied on, or based his bid on any verbal instructions contrary to the Bidding Documents or any addenda, c) has personally inspected and is familiar with the project site, and hereby proposes to provide all labor, materials, tools, appliances and facilities as required to perform, in a workmanlike manner, all work and services for the construction and completion of the referenced project, all in strict accordance with the Bidding Documents prepared by: **Sizeler Thompson Brown Architects Regional Design Group, LLC** and dated: **October 15, 2018.**
*(Owner to provide name of entity preparing bidding documents.)*

Bidders must acknowledge all addenda. The Bidder acknowledges receipt of the following **ADDENDA:** (Enter the number the Designer has assigned to each of the addenda that the Bidder is acknowledging) _____ .

**TOTAL BASE BID**: For all work required by the Bidding Documents (including any and all unit prices designated "Base Bid" * but not alternates) the sum of:

_____Dollars ($ _____)

**ALTERNATES:** For any and all work required by the Bidding Documents for Alternates including any and all unit prices designated as alternates in the unit price description.

**Alternate No. 1** *(Owner to provide description of alternate and state whether add or deduct)* for the lump sum of:

As described in Section 01 2300 - Alternates _____Dollars ($ _____)

**Alternate No. 2** *(Owner to provide description of alternate and state whether add or deduct)* for the lump sum of:

N/A _____Dollars ($ N/A _____)

**Alternate No. 3** *(Owner to provide description of alternate and state whether add or deduct)* for the lump sum of:

N/A _____Dollars ($ N/A _____)

**NAME OF BIDDER:** _____

**ADDRESS OF BIDDER:**_____

_____

**LOUISIANA CONTRACTOR'S LICENSE NUMBER:** _____

**NAME OF AUTHORIZED SIGNATORY OF BIDDER:** _____

**TITLE OF AUTHORIZED SIGNATORY OF BIDDER:** _____

**SIGNATURE OF AUTHORIZED SIGNATORY OF BIDDER **:** _____

**DATE:** _____

* The Unit Price Form shall be used if the contract includes unit prices. Otherwise it is not required and need not be included with the form. The number of unit prices that may be included is not limited and additional sheets may be included if needed.

** If someone other than a corporate officer signs for the Bidder/Contractor, a copy of a corporate resolution or other signature authorization shall be required for submission of bid. Failure to include a copy of the appropriate signature authorization, if required, may result in the rejection of the bid unless bidder has complied with La. R.S. 38:2212(A)(1)(c) or RS 38:2212(O) .

**BID SECURITY** in the form of a bid bond, certified check or cashier's check as prescribed by LA RS 38:2218.A is attached to and made a part of this bid.

# LOUISIANA UNIFORM PUBLIC WORK BID FORM

# UNIT PRICE FORM

**TO:** St. John the Baptist Parish Council
1801 West Airline Hwy.
LaPlace, La 70068

*(Owner to provide name and address of owner)*

**BID FOR:** St. John the Baptist Parish
West Bank Safety Complex
5739 Highway 18
Edgard, La 70049
(*Owner to provide name of project and other identifying information)*

**UNIT PRICES:** This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

| DESCRIPTION: | ❑ Base Bid or ❑ Alt.# ___ | | | |
|---|---|---|---|---|
| REF. NO. | QUANTITY: | UNIT OF MEASURE: | UNIT PRICE | UNIT PRICE EXTENSION *(Quantity times Unit Price)* |
| | | | | |

| DESCRIPTION: | ❑ Base Bid or ❑ Alt.# ___ | | | |
|---|---|---|---|---|
| REF. NO. | QUANTITY: | UNIT OF MEASURE: | UNIT PRICE | UNIT PRICE EXTENSION *(Quantity times Unit Price)* |
| | | | | |

| DESCRIPTION: | ❑ Base Bid or ❑ Alt.# ___ | | | |
|---|---|---|---|---|
| REF. NO. | QUANTITY: | UNIT OF MEASURE: | UNIT PRICE | UNIT PRICE EXTENSION *(Quantity times Unit Price)* |
| | | | | |

| DESCRIPTION: | ❑ Base Bid or ❑ Alt.# ___ | | | |
|---|---|---|---|---|
| REF. NO. | QUANTITY: | UNIT OF MEASURE: | UNIT PRICE | UNIT PRICE EXTENSION *(Quantity times Unit Price)* |
| | | | | |

| DESCRIPTION: | ❑ Base Bid or ❑ Alt.# ___ | | | |
|---|---|---|---|---|
| REF. NO. | QUANTITY: | UNIT OF MEASURE: | UNIT PRICE | UNIT PRICE EXTENSION *(Quantity times Unit Price)* |
| | | | | |

| DESCRIPTION: | ❑ Base Bid or ❑ Alt.# ___ | | | |
|---|---|---|---|---|
| REF. NO. | QUANTITY: | UNIT OF MEASURE: | UNIT PRICE | UNIT PRICE EXTENSION *(Quantity times Unit Price)* |
| | | | | |

| DESCRIPTION: | ❑ Base Bid or ❑ Alt.# ___ | | | |
|---|---|---|---|---|
| REF. NO. | QUANTITY: | UNIT OF MEASURE: | UNIT PRICE | UNIT PRICE EXTENSION *(Quantity times Unit Price)* |
| | | | | |

| DESCRIPTION: | ❑ Base Bid or ❑ Alt.# ___ | | | |
|---|---|---|---|---|
| REF. NO. | QUANTITY: | UNIT OF MEASURE: | UNIT PRICE | UNIT PRICE EXTENSION *(Quantity times Unit Price)* |
| | | | | |

**Wording for "DESCRIPTION" is to be provided by the Owner.**
**All quantities are estimated. The contractor will be paid based upon actual quantities as verified by the Owner**

# BID BOND

FOR

**St. John the Baptist Westbank Public Safety Complex**

Date: _____

KNOW ALL MEN BY THESE PRESENTS:

That_____of_____, as Principal, and_____, as Surety, are held and firmly bound unto the State of Louisiana, Division of Administration, Office of Facility Planning and Control (Obligee), in the full and just sum of five (5%) percent of the total amount of this proposal, including all alternates, lawful money of the United States, for payment of which sum, well and truly be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally firmly by these presents.

Surety represents that it is listed on the current U. S. Department of the Treasury Financial Management Service list of approved bonding companies as approved for an amount equal to or greater that the amount for which it obligates itself in this instrument or that it is a Louisiana domiciled insurance company with at least an A - rating in the latest printing of the A. M. Best's Key Rating Guide. If surety qualifies by virtue of its Best's listing, the Bond amount may not exceed ten percent of policyholders' surplus as shown in the latest A. M. Best's Key Rating Guide.

Surety further represents that it is licensed to do business in the State of Louisiana and that this Bond is signed by surety's agent or attorney-in-fact. This Bid Bond is accompanied by appropriate power of attorney.

THE CONDITION OF THIS OBLIGATION IS SUCH that, whereas said Principal is herewith submitting its proposal to the Obligee on a Contract for:

_____

NOW, THEREFORE, if the said Contract be awarded to the Principal and the Principal shall, within such time as may be specified, enter into the Contract in writing and give a good and sufficient bond to secure the performance of the terms and conditions of the Contract with surety acceptable to the Obligee, then this obligation shall be void; otherwise this obligation shall become due and payable.

| | |
|---|---|
| _____ | _____ |
| PRINCIPAL (BIDDER) | SURETY |
| BY: _____ | BY:_____ |
| AUTHORIZED OFFICER-OWNER-PARTNER | AGENT OR ATTORNEY-IN-FACT(SEAL) |

THIS PAGE IS BLANK

# SECTION 01 7900

# DEMONSTRATION AND TRAINING

## PART 1 - GENERAL

### 1.1 RELATED DOCUMENTS

**A.** Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specifications Sections, apply to this Section.

### 1.2 SUMMARY

**A.** This Section includes administrative and procedural requirements for instructing the Owner personnel in the operation and maintenance of systems, sub-systems and equipment.

**B.** Related Sections:
1. Division 01 “Closeout Procedures" for closeout requirements.
2. Division 01 "Closeout Submittals" for warranty closeout for each individual section.
3. Division 01 "Operation and Maintenance Manuals."
4. Division 02 through 48 Sections for specific demonstration and training requirements of each individual section.

### 1.3 DEFINITIONS

**A.** System: An organized collection of parts, equipment, or subsystems united by regular interaction.

**B.** Sub-system: A portion of a system with characteristics similar to a system.

**C.** A/E: Architect / Engineer

### 1.4 SUBMITTALS

**A.** The Contractor shall be responsible to submit a formal training program to be utilized for each respective system under their responsibility 45 days prior to substantial completion to the A/E and Owner. It is the Contractor’s responsibility to work with Owner, A/E and other contractors to develop a cohesive training session schedule that complies with Owner’s personnel availability, scheduling requirements of A/E and other contractor’s sessions, and specifies completion of all training sessions prior to substantial completion. The training program shall include at a minimum the following:
1. Training Outline that summarizes all training sessions and their proposed dates, times, length of instruction, names of instructors, along with a summary learning objective for each training module.
2. Detailed Agenda for each training module that includes the following:
   a. Session title.
   b. Proposed date of the session.

c. Intended audience.
d. List of systems and equipment to be reviewed.
e. Training objectives and topics by system and equipment.
f. Listed durations for each objective and topic.
g. Instructor, including name and affiliation, for each objective and topic.
h. Instructor qualifications for each instructor listed. The Contractor is responsible to ensure each instructor has an intimate knowledge of the system or equipment and the installation for this project. The Owner shall have the right of refusal to reject any proposed instructor that is not deemed qualified for provision of training.

3. Contractor contact sheet, including address, phone number, fax number and e-mail.
4. O&M data applicable to session.
5. Copy of As-Builts.
6. Additional materials to be utilized including copies of any materials and/or video to be utilized during the session.
7. An example of a Sample Training Session Agenda recommended is shown in Annex A at the end of this section.

**B.** Sign-off sheets: Submit copies of proposed sign-off sheets for each training session a minimum of 14 days prior to the scheduled training. Sign-off sheets are to include the following information:

1. Name of training session
2. Date of training
3. Beginning/Ending time
4. Detailed, itemized summary listing all areas of training for that session.
5. Listing of hand-out materials distributed at the session.
6. Signature lines for Trainer, Contractor, and Owner personnel being trained.
   a. Signature by Owner personnel evidences training received only to the extent listed on the sign-off sheet summary.

**C.** Demonstration and Training DVD: Contractor to provide recordings of each demonstration and training session module for future use by the Owner. Submit three (3) copies within seven days of end of each training module. Copies shall be of professional audio and video quality, including provision of CD/DVD menu structure and labeling.

**1.5** QUALITY ASSURANCE

**A.** Instructor Qualifications: A factory-authorized service representative, experienced in operation and maintenance procedures for the equipment being demonstrated and the training of personnel tasked with using and maintaining the equipment.

**1.6** COORDINATION

**A.** Coordinate instruction schedule with the Owner's operations and schedule through the Owner's Authorized Representative. Adjust schedule as required to minimize disrupting the Owner's operations and to ensure attendance by designated Owner representatives.

**B.** Coordinate content of training modules with content of emergency, operation, and maintenance manuals. Provide copies of this coordinated material at each training

session. Do not submit instruction program until operation and maintenance data has been reviewed and approved by Architect.

**C.** Completion of all training sessions must occur prior to substantial completion.

## PART 2 - PRODUCTS

### 2.1 INSTRUCTION PROGRAM

**A.** Program Structure: Develop an instruction program that includes individual training modules for each system and equipment not part of a system, as required by individual Specification Sections, or as outlined under the Training Program Matrix contained under Annex B, whichever is more stringent.

**B.** Training Modules: Develop a learning objective and teaching outline for each module. Include a description of specific skills and knowledge that participant is expected to master. For each module, include instruction and material for the system, equipment, or component as following:

1. Basis of System Design, Operational Requirements, and Criteria: Include the following:
   a. System, sub-system, and equipment descriptions.
   b. Performance and design criteria if Contractor is delegated design responsibility.
   c. Operating standards.
   d. Regulatory requirements.
   e. Equipment function.
   f. Operating characteristics.
   g. Limiting conditions.
   h. Performance curves.
   i. Review of typical sensor and energy trending reports
2. Documentation: Review the following items in detail:
   a. Emergency manuals.
   b. Manufacturer's operation manuals.
   c. Manufacturer's maintenance and troubleshooting manuals.
   d. Project record documents.
   e. Identification systems (valve charts, etc)
   f. Warranties and bonds.
   g. Maintenance service agreements and similar continuing commitments.
3. Emergencies: Include the following, as applicable:
   a. Instructions on meaning of warnings, trouble indications, and error messages.
   b. Demonstration of alarms
   c. Instructions on stopping.
   d. Shutdown instructions for each type of emergency.
   e. Operating instructions for conditions outside of normal operating limits.
   f. Sequences for electric or electronic systems.
   g. Special operating instructions and procedures.
4. Operations: Include the following, as applicable:
   a. Start-up procedures.
   b. Equipment or system break-in procedures.
   c. Routine and normal operating instructions.
   d. Regulation and control procedures.

e. Control sequences.
f. Safety procedures.
g. Instructions on stopping.
h. Normal shutdown instructions.
i. Operating procedures for emergencies.
j. Operating procedures for system, subsystem, or equipment failure.
k. Seasonal and weekend operating instructions.
l. Required sequences for electric or electronic systems.
m. Special operating instructions and procedures.

5. Adjustments: Include the following:
   a. Alignments.
   b. Checking adjustments.
   c. Noise and vibration adjustments.
   d. Economy and efficiency adjustments.
6. Troubleshooting: Include the following:
   a. Diagnostic instructions.
   b. Test and inspection procedures.
7. Maintenance: Include the following:
   a. Inspection procedures.
   b. Types of cleaning agents to be used and methods of cleaning.
   c. List of cleaning agents and methods of cleaning detrimental to product.
   d. Procedures for routine cleaning
   e. Procedures for preventive maintenance.
   f. Procedures for routine maintenance.
   g. Instruction on use of special tools.
   h. Demonstration of equipment or system coordination and control using the BMS.
8. Repairs: Include the following:
   a. Diagnosis instructions.
   b. Repair instructions.
   c. Disassembly; component removal, repair, and replacement; and reassembly instructions.
   d. Instructions for identifying parts and components.
   e. Review of spare parts needed for operation and maintenance.

## PART 3 - EXECUTION

### 3.1 GENERAL

**A.** Assemble educational materials necessary for instruction, including documentation and training module. Assemble training modules into a combined training manual.

**B.** Engage qualified instructors to instruct the Owner's personnel to adjust, operate, and maintain systems, subsystems, and equipment not part of a system.
1. The Owner's Authorized Representative will furnish Contractor with names and positions of participants.

**C.** Scheduling: Provide instruction at mutually agreed on times as approved in the training schedule matrix. For equipment that requires seasonal operation, provide similar instruction at start of each season.
1. The training schedule will be coordinated through the Owner's Authorized Representative.

**D.** Two (2) days prior to the scheduled training session, Contractor shall notify Architect and Owner and participants of confirmation for training session.

**E.** All training sessions shall follow the approved agenda and shall be provided in the following format:
1. Classroom session.
2. Site walk-through. Facility walkthrough shall identify location of all cleanouts, valves, test ports, access dampers, devices, equipment, panels, etc.
3. Field demonstration of operation.
4. Contractor directed and reviewed annual maintenance of equipment or system, as provided by Owner personnel.

**F.** Sign-off Sheets: At the conclusion of each training module, obtain sign-offs using the approved sign-off sheets. Executed sign-off sheets are to be submitted as part of the closeout documentation evidencing compliance with training requirements.

**G.** Demonstration and Training Videotape: Record each training module separately. Include classroom instructions and demonstrations, board diagrams, and other visual aids.
1. At beginning of each training module, record each chart containing learning objective and lesson outline.

**H.** Cleanup: Collect used and leftover educational materials and give to the Owner. Remove instructional equipment. Restore systems and equipment to condition existing before initial training use.

**I.** Re-training: The contractor is responsible for all expenses and time for all participants and consultants (A/E, etc.) in attendance if one of the following occurs:
1. If confirmation is received as required in 3.1-D (2-days before training session) and the training session is subsequently cancelled or the specified instructor does not show up.
2. If the Owner does not sign-off that the training meets the requirements previously submitted in the training outline and agenda.

## ANNEX A – SAMPLE TRAINING SESSION AGENDA

**Training Agenda – [insert system name]**

**Project #:** _____

**Project Title:** _____

**Applicable Spec Sections:** _____

**Training Materials to be Provided:**

| |
|---|
| |

### SECTION 1: AUDIENCE AND GENERAL SCOPE

| | |
|---|---|
| **Intended Audience Type (check all that apply):** | ❑ Facilities Management Personnel<br>❑ Engineering and Operations Personnel<br>❑ A/E<br>❑ Users/Occupants |

| | |
|---|---|
| **General Scope of Training (check all that apply):** | ❑ System & Operations Overview<br>❑ Basic Operations & Maintenance<br>❑ Detail Theory, Operations and Maintenance<br>❑ User Orientation |

### SECTION 2: INSTRUCTORS

| ID | Instructor Name | Company |
|---|---|---|
| 1. | | |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |

**SECTION 3: OBJECTIVES**

**SECTION 4: AGENDA**

*Part A – [insert title of part for session]*

| Topic/Demonstrations | Dates | Instructor ID | Duration (hr x freq) |
|---|---|---|---|
| 1. | | | x |
| 2. | | | x |
| 3. | | | x |
| 4. | | | x |

**Total Duration of Session Part (hrs):**

**ANNEX B – TRAINING PROGRAM MATRIX**

The training program matrix defined below describes additional objectives/topics to be covered for training and demonstration. These objectives are in addition to those training requirements in this specification and stated in other specifications.

| Specification Section | Section Title | Training Requirement(s) | Responsible Party | Minimum Duration (hrs) | Special Requirements |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

**END OF SECTION**

# SECTION 08 1113
# HOLLOW METAL DOORS AND FRAMES

## PART 1 GENERAL

### 1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specifications Sections, apply to this Section.

### 1.2 SECTION INCLUDES

A. Non-fire-rated steel doors and frames.

B. Steel frames for wood doors.

C. Fire-rated steel doors and frames.

D. Thermally insulated steel doors.

E. Accessories, including glazing and matching panels.

### 1.3 RELATED REQUIREMENTS

A. Section 03 4500 - Precast Architectural Concrete.

B. Section 08 7100 – Door Hardware.

C. Section 08 8000 - Glazing: Glass for doors and borrowed lites.

D. Section 09 2116 - Gypsum Board Assemblies.

E. Section 09 9000 - Painting and Coating: Field painting.

### 1.4 REFERENCE STANDARDS

A. ADA Standards - Americans with Disabilities Act (ADA) Standards for Accessible Design; 2010.

B. ANSI/ICC A117.1 - American National Standard for Accessible and Usable Buildings and Facilities; International Code Council; 2009.

C. ANSI/SDI A250.3 - Test Procedure and Acceptance Criteria for Factory Applied Finish Coatings for Steel Doors and Frames; 2007 (R2011).

D. ANSI A250.8 - SDI-100 Recommended Specifications for Standard Steel Doors and Frames; 2003.

E. ANSI/SDI A250.10 - Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames; 2011.

F. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2013.

G. ASTM C1363 - Standard Test Method for Thermal Performance of Building Assemblies by Means of a Hot Box Apparatus; 2011.

H. BHMA A156.115 - American National Standard for Hardware Preparation in Steel Doors and Steel Frames; 2014. (ANSI/BHMA A156.115)

I. ICC A117.1 - Accessible and Usable Buildings and Facilities; International Code Council; 2009 (ANSI).

J. NAAMM HMMA 840 - Guide Specifications for Installation and Storage of Hollow Metal Doors and Frames; The National Association of Architectural Metal Manufacturers; 2007.

K. NAAMM HMMA 860 - Guide Specifications for Hollow Metal Doors and Frames; The National Association of Architectural Metal Manufacturers; 2013.

L. NAAMM HMMA 861 - Guide Specifications for Commercial Hollow Metal Doors and Frames; The National Association of Architectural Metal Manufacturers; 2006.

M. NAAMM HMMA 865 - Guide Specifications for Sound Control Hollow Metal Doors and Frames; The National Association of Architectural Metal Manufacturers; 2013.

N. NFPA 80 - Standard for Fire Doors and Other Opening Protectives; 2013.

O. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies; National Fire Protection Association; 2012.

P. UL (BMD) - Building Materials Directory; Underwriters Laboratories Inc.; current edition.

Q. UL 10B - Standard for Fire Tests of Door Assemblies; Current Edition, Including All Revisions.

R. UL 10C - Standard for Positive Pressure Fire Tests of Door Assemblies; Current Edition, Including All Revisions.

S. UL 1784 - Standard for Air Leakage Tests of Door Assemblies; Current Edition, Including All Revisions.

## 1.5 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements, for submittal procedures.

B. Product Data: Materials and details of design and construction, hardware locations, reinforcement type and locations, anchorage and fastening methods, and finishes; and one copy of referenced grade standard.

C. Door hardware supplier is to furnish templates, template reference number and/or physical hardware to the steel door and frame supplier in order to prepare the doors and frames to receive the finish hardware items.

D. Shop Drawings: Details of each opening, showing elevations, glazing, frame profiles, and identifying location of different finishes, if any.
   1. Elevations of each door design.
   2. Details of doors, including vertical and horizontal edge details and metal thicknesses.
   3. Frame details for each frame type, including dimensioned profiles and metal thicknesses.
   4. Locations of reinforcement and preparations for hardware.
   5. Details of anchorages, joints, field splices, and connections.
   6. Details of accessories.
   7. Details of moldings, removable stops, and glazing.
   8. Details of conduit and preparations for power, signal, and control systems.

E. Installation Instructions: Manufacturer's published instructions, including any special installation instructions relating to this project.

F. Manufacturer's Certificate: Certification that products meet or exceed specified requirements.

## 1.6 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.

B. Source Limitations: Obtain hollow metal doors and frames through one source from a single manufacturer wherever possible.

C. Quality Standard: In addition to requirements specified, comply with ANSI/SDI A250.8, latest edition, "Recommended Specifications for Standard Steel Doors and Frames".

D. Fire-Rated Door Assemblies: Assemblies complying with NFPA 80 that are listed and labeled by a qualified testing agency, for fire-protection ratings indicated, based on testing at positive pressure according to NFPA 252 (neutral pressure at 40” above sill) or UL 10C.
   1. Smoke Control Door Assemblies: Comply with NFPA 105.
      a. Smoke "S" Label: Doors to bear “S” label, and include smoke and draft control gasketing applied to frame and on meeting stiles of pair doors.

E. Fire-Rated, Borrowed-Light Frame Assemblies: Assemblies complying with NFPA 80 that are listed and labeled, by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire-protection ratings indicated, based on testing according to NFPA 257. Provide labeled glazing material.

F. Pre-Submittal Conference: Conduct conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of

Supplier, Installer, and Contractor to review proper methods and procedures for installing hollow metal doors and frames and to verify installation of electrical knockout boxes and conduit at frames with electrified or access control hardware.

G. **Wind Loads**: At exterior locations, provide door hardware with hollow metal assemblies capable of withstanding windload design pressures which are calculated, certified, stamped and signed, for this project by a qualifiied/registered professional, licensed in the State of Louisiana, meeting or exceeding the design load requirements as indicated on the structural drawings.

H. **Hurricane-Resistance Test Performance**: At exterior locations, provide door hardware with hollow metal approved assemblies that pass large missile-impact tests and cyclic-pressure tests according to testing requirements of authorities having jurisdiction.
   1. **Impact Resistance**: Door Hardware approved assemblies must satisfy the criteria for protection from windborne debris. The assemblies must have passed the large missile impact test (which equates to Missile Level D specified in ASTM E 1996-14a). The assemblies may be installed at any height on the structure as long as the design pressure rating for the assemblies is not exceeded.

I. Maintain at the project site a copy of all reference standards dealing with installation.

## 1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver hollow metal work palletized, wrapped, or crated to provide protection during transit and Project site storage. Do not use non-vented plastic.

B. Deliver welded frames with two removable spreader bars across bottom of frames, tack welded to jambs and mullions.

C. Store hollow metal work under cover at Project site. Place in stacks of five units maximum in a vertical position with heads up, spaced by blocking, on minimum 4-inch high wood blocking. Do not store in a manner that traps excess humidity.
   1. Provide minimum 1/4-inch space between each stacked door to permit air circulation. Door and frames to be stacked in a vertical upright position.

D. Store in accordance with NAAMM HMMA 840.

E. Protect with resilient packaging; avoid humidity build-up under coverings; prevent corrosion.

F. Replace items damaged during delivery, unless damage is minor and can be repaired to match intact systems, as determined by Architect.

## 1.8 PROJECT CONDITIONS

A. Field Measurements: Verify actual dimensions of openings by field measurements before fabrication.

## 1.9 COORDINATION

A. Coordinate installation of anchorages for hollow metal frames. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors. Deliver such items to Project site in time for installation.

## 1.10 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace doors that fail in materials or workmanship within specified warranty period.

B. Warranty includes installation and finishing that may be required due to repair or replacement of defective doors.

# PART 2 PRODUCTS

## 2.1 MANUFACTURERS

A. Steel Doors and Frames:
   1. Assa Abloy Ceco, Curries, or Fleming: www.assaabloydss.com.
   2. Republic Doors: www.republicdoor.com.
   3. Steelcraft, an Allegion brand: www.allegion.com/us.
   4. Substitutions: See Section 01 6300 – Substitution Procedures.

## 2.2 DOORS AND FRAMES

A. Requirements for All Doors and Frames:
   1. Accessibility: Comply with ICC A117.1 and ADA Standards.
   2. Door Top Closures: Flush with top of faces and edges.
   3. Door Edge Profile: Beveled on both edges.
   4. Door Texture: Smooth faces.
   5. Glazed Lights: Non-removable stops on non-secure side; sizes and configurations as indicated on drawings.
   6. Hardware Preparation: In accordance with BHMA A156.115, with reinforcement welded in place, in addition to other requirements specified in door grade standard.
   7. Galvanizing for Units in Wet Areas: Components hot-dipped zinc-iron alloy-coated (galvannealed) in accordance with ASTM A653/A653M, with manufacturer's standard coating thickness
   8. Finish: Factory primed, for field finishing.
      a. Manufacturer's standard rust-inhibiting coating compatible with paint specified in Section 09 9000 - Painting and Coating.

B. Combined Requirements: If a particular door and frame unit is indicated to comply with more than one type of requirement, comply with all the specified requirements for each type; for instance, an exterior door that is also indicated as being sound-rated must comply with the requirements specified for exterior doors and for sound-rated doors; where two requirements conflict, comply with the most stringent.

## 2.3 STEEL DOORS

A. General: Provide 1-3/4 inch doors of design indicated, not less than thickness indicated; fabricated with smooth surfaces, without visible joints or seams on exposed faces unless otherwise indicated. Comply with ANSI/SDI A250.8.

B. Exterior Doors:
   1. Grade: ANSI/SDI A250.8 (SDI-100); Level 3 - Extra Heavy-Duty, Physical Performance Level A, Model 2 - Seamless.
   2. Core: Polystyrene.
   3. Thickness: 1-3/4 inch (44.5 mm).
   4. Galvanizing: Components hot-dipped zinc-iron alloy-coated (galvannealed) in accordance with ASTM A653/A653M, with manufacturer's standard coating thickness.
   5. Insulating Value: U-value of 0.33 minimum, when tested in accordance with ASTM C1363.
   6. Weatherstripping: Integral, recessed into door edge or frame.

C. Interior Doors, Non-Fire-Rated:
   1. Grade: ANSI/SDI A250.8 (SDI-100); Level 2 - Heavy-Duty, Physical Performance Level B, Model 2 - Seamless.
   2. Core: Kraftpaper honeycomb.
   3. Thickness: 1-3/4 inch (44.5 mm).

D. Interior Doors, Fire-Rated:
   1. Grade: ANSI/SDI A250.8 (SDI-100); Level 2 - Heavy-Duty, Physical Performance Level B, Model 2 - Seamless.
   2. Fire Rating: As indicated on Door and Frame Schedule, tested in accordance with UL 10C ("positive pressure").
      a. Rate of Temperature Rise Across Door Thickness : 250 degrees F (138 degrees C).
      b. Provide units listed and labeled by UL (Underwriters Laboratories) - UL (BMD).
      c. Attach fire rating label to each fire rated unit.
   3. Core: Manufacturer's recommended core material that is tested as part of the compliant door/frame system and satisfies specified system requirements.
   4. Door hardware supplier is to furnish templates, template reference number and/or physical hardware to the steel door and frame supplier in order to prepare the doors and frames to receive the finish hardware items.

## 2.4 STEEL FRAMES

A. General:
   1. Comply with the requirements of grade specified for corresponding door.
      a. ANSI/SDI A250.8 (SDI-100), Level 3 Door Frames: 14 gage, 0.067 inch (1.7 mm), minimum thickness.
      b. Frames for Metal and Wood Doors: Comply with frame requirements in accordance with ANSI/SDI A250.8 (SDI-100), Level 2, 16 gage, 0.053 inch (1.3 mm), minimum thickness.

2. Finish: Factory primed, for field finishing.
3. Provide mortar guard boxes for hardware cut-outs in frames to be installed in masonry or to be grouted.
4. Frames Wider than 48 Inches (1219 mm): Reinforce with steel channel fitted tightly into frame head, flush with top.
5. Frames Installed Back-to-Back: Reinforce with steel channels anchored to floor and overhead structure.

B. Exterior Door Frames: Face welded.
1. Galvanizing: Components hot-dipped zinc-iron alloy-coated (galvannealed) in accordance with ASTM A653/A653M, with A60/ZF180 coating.
2. Weatherstripping: Separate, see Section 08 7100.

C. Interior Door Frames, Non-Fire-Rated: Face welded type.

D. Interior Door Frames, Fire-Rated: Face welded type.
1. Fire Rating: Same as door, labeled.

E. Frames for Interior Glazing or Borrowed Lights: Construction and face dimensions to match door frames, and as indicated on drawings.

## 2.5 FRAME ANCHORS

A. Jamb Anchors:
1. Stud Wall Type: Designed to engage stud and not less than 0.042 inch thick.
2. Windstorm Opening Anchors: Types as tested and required for indicated wall types to meet specified wind load design criteria.

B. Floor Anchors: Floor anchors to be provided at each jamb, formed from A60 metallic coated material, not less than 0.042 inches thick.

## 2.6 LIGHT OPENINGS AND GLAZING

A. Stops and Moldings: Provide stops and moldings around glazed lites where indicated. Form corners of stops and moldings with butted or mitered hairline joints at fabricator's shop. Fixed and removable stops to allow multiple glazed lites each to be removed independently. Coordinate frame rabbet widths between fixed and removable stops with the type of glazing and installation indicated.

B. Moldings for Glazed Lites in Doors and Loose Stops for Glazed Lites in Frames: Minimum 20 gauge thick, fabricated from same material as door face sheet in which they are installed.

C. Fixed Frame Moldings: Formed integral with hollow metal frames, a minimum of 5/8 inch (16 mm) high unless otherwise indicated. Provide fixed frame moldings and stops on outside of exterior and on secure side of interior doors and frames

D. Preformed Metal Frames for Light Openings: Manufacturer's standard frame formed of 0.048-inch-thick, cold rolled steel sheet; with baked enamel or powder coated

finish; and approved for use in doors of fire protection rating indicated. Match pre-finished door paint color where applicable.

E. Glazing: Comply with requirements in Division 08 Section "Glazing" and with the hollow metal door manufacturer's written instructions.

## 2.7 ACCESSORY MATERIALS

A. Glazing: As specified in Section 08 8000 .

B. Removable Stops: Formed sheet steel, shape as indicated on drawings, mitered or butted corners; prepared for countersink style tamper proof screws.

C. Astragals for Double Doors: Specified in Section 08 7100.
   1. Exterior Doors: Steel, Z-shaped.
   2. Fire-Rated Doors: Steel, shape as required to accomplish fire rating.

D. Mechanical Fasteners for Concealed Metal-to-Metal Connections: Self-drilling, self-tapping, steel with electroplated zinc finish.

E. Grout for Frames: Portland cement grout of maximum 4-inch slump for hand troweling; thinner pumpable grout is prohibited.

F. Silencers: Resilient rubber, fitted into drilled hole; 3 on strike side of single door, 3 on center mullion of pairs, and 2 on head of pairs without center mullions.

G. Temporary Frame Spreaders: Provide for all factory- or shop-assembled frames.

## 2.8 FABRICATION

A. Fabricate hollow metal work to be rigid and free of defects, warp, or buckle. Accurately form metal to required sizes and profiles, with minimum radius for thickness of metal. Where practical, fit and assemble units in manufacturer's plant. When shipping limitations so dictate, frames for large openings are to be fabricated in sections for splicing or splining in the field by others.

B. Tolerances: Fabricate hollow metal work to tolerances indicated in ANSI/SDI A250.8.

C. Hollow Metal Doors:
   1. Exterior Doors: Provide optional weep-hole openings in bottom of exterior doors to permit moisture to escape where specified.
   2. Glazed Lites: Factory cut openings in doors with applied trim or kits to fit. Factory install glazing where indicated.
   3. Astragals: Provide overlapping astragals as noted in door hardware sets in Division 08 Section "Door Hardware" on one leaf of pairs of doors where required by NFPA 80 for fire-performance rating or where indicated. Extend minimum 3/4 inch beyond edge of door on which astragal is mounted.

D. Hollow Metal Frames:

1. Shipping Limitations: Where frames are fabricated in sections due to shipping or handling limitations, provide alignment plates or angles at each joint, fabricated of same thickness metal as frames.
2. Welded Frames: Weld flush face joints continuously; grind, fill, dress, and make smooth, flush, and invisible.
   a. Welded frames are to be provided with two steel spreaders temporarily attached to the bottom of both jambs to serve as a brace during shipping and handling. Spreader bars are for bracing only and are not to be used to size the frame opening.
3. Sidelight and Transom Bar Frames: Provide closed tubular members with no visible face seams or joints, fabricated from same material as door frame. Fasten members at crossings and to jambs by butt welding.
4. High Frequency Hinge Reinforcement: Provide high frequency hinge reinforcements at door openings 48-inches and wider with mortise butt type hinges at top hinge locations.
5. Provide countersunk, flat- or oval-head exposed screws and bolts for exposed fasteners unless otherwise indicated for removable stops, provide security screws at exterior locations.
6. Mortar Guards: Provide guard boxes at back of hardware mortises in frames at all hinges and strike preps regardless of grouting requirements.
7. Floor Anchors: Weld anchors to bottom of jambs and mullions with at least four spot welds per anchor.
8. Jamb Anchors: Provide number and spacing of anchors as follows:
   a. Stud Wall Type: Locate anchors not more than 18 inches from top and bottom of frame. Space anchors not more than 32 inches o.c. and as follows:
      1) Three anchors per jamb up to 60 inches high.
      2) Four anchors per jamb from 60 to 90 inches high.
      3) Five anchors per jamb from 90 to 96 inches high.
      4) Five anchors per jamb plus 1 additional anchor per jamb for each 24 inches or fraction thereof above 96 inches high.
      5) Two anchors per head for frames above 42 inches wide and mounted in metal stud partitions.
9. Door Silencers: Except on weatherstripped or gasketed doors, drill stops to receive door silencers. Silencers to be supplied by frame manufacturer regardless if specified in Division 08 Section "Door Hardware".

E. Hardware Preparation: Factory prepare hollow metal work to receive template mortised hardware; include cutouts, reinforcement, mortising, drilling, and tapping according to the Door Hardware Schedule and templates furnished as specified in Division 08 Section "Door Hardware."
   1. Locate hardware as indicated, or if not indicated, according to ANSI/SDI A250.8.
   2. Reinforce doors and frames to receive non-template, mortised and surface mounted door hardware.
   3. Comply with applicable requirements in ANSI/SDI A250.6 and ANSI/DHI A115 Series specifications for preparation of hollow metal work for hardware.

## 2.9 FINISH MATERIALS

A. Primer: Rust-inhibiting, complying with ANSI/SDI A250.10, door manufacturer's standard.
   1. Doors and frames to be cleaned, and chemically treated to insure maximum finish paint adhesion. Surfaces of the door and frame exposed to view to receive a factory applied coat of rust inhibiting shop primer.
      a. Shop Primer: Manufacturer's standard, fast-curing, lead and chromate free primer complying with ANSI/SDI A250.10 acceptance criteria; recommended by primer manufacturer for substrate; and compatible with substrate and field-applied coatings.

B. Bituminous Coating: Asphalt emulsion or other high-build, water-resistant, resilient coating.
   1. Use at conditions with grouted frames and at conditions with dissimilar metals in close proximity to one another.

# PART 3 EXECUTION

## 3.1 EXAMINATION

A. Verify existing conditions before starting work.
   1. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. Verify that opening sizes and tolerances are acceptable.
   1. General Contractor to verify the accuracy of dimensions given to the steel door and frame manufacturer .

C. Proceed with installation only after unsatisfactory conditions have been corrected.

## 3.2 PREPARATION

A. Remove welded in shipping spreaders installed at factory. Restore exposed finish by grinding, filling, and dressing, as required to make repaired area smooth, flush, and invisible on exposed faces.

B. Prior to installation, adjust and securely brace welded hollow metal frames for squareness, alignment, twist, and plumbness.

C. Tolerances shall comply with SDI-117 "Manufacturing Tolerances Standard Steel Doors and Frames."

D. Drill and tap doors and frames to receive non-template, mortised, and surface-mounted door hardware.

E. Coat inside of frames to be installed in masonry or to be grouted, with bituminous coating, prior to installation.

## 3.3 INSTALLATION

A. General: Install hollow metal work plumb, rigid, properly aligned, and securely fastened in place; comply with Drawings and manufacturer's written instructions.

B. Install in accordance with the requirements of the specified door grade standard and NAAMM HMMA 840.

C. In addition, install fire rated units in accordance with NFPA 80.

D. Coordinate frame anchor placement with wall construction.

E. Hollow Metal Frames: Install hollow metal frames of size and profile indicated. Comply with ANSI/SDI A250.11 and NFPA 80 at fire rated openings.
   1. Set frames accurately in position, plumbed, aligned, and braced securely until permanent anchors are set. After wall construction is complete and frames properly set and secured, remove temporary braces, leaving surfaces smooth and undamaged. Shim as necessary to comply with installation tolerances.
   2. Floor Anchors: Provide floor anchors for each jamb and mullion that extends to floor, and secure with post-installed expansion anchors.
   3. Masonry Walls: Coordinate installation of frames to allow for solidly filling space between frames and masonry with mortar.

F. Grout frames in masonry construction, using hand trowel methods; brace frames so that pressure of grout before setting will not deform frames.
   1. Grout Requirements: Do not grout head of frames unless reinforcing has been installed in head of frame. Do not grout vertical or horizontal closed mullion members.

G. Hollow Metal Doors: Fit hollow metal doors accurately in frames, within clearances specified below. Shim as necessary.
   1. Non-Fire-Rated Standard Steel Doors:
      a. Jambs and Head: 1/8 inch plus or minus 1/16 inch.
      b. Between Edges of Pairs of Doors: 1/8 inch plus or minus 1/16 inch.
      c. Between Bottom of Door and Top of Threshold: Maximum 3/8 inch.
      d. Between Bottom of Door and Top of Finish Floor (No Threshold): Maximum 3/4 inch.
   2. Fire-Rated Doors: Install doors with clearances according to NFPA 80.

H. Coordinate installation of hardware.

I. Coordinate installation of glazing.
   1. Field Glazing: Comply with installation requirements in Division 08 Section "Glazing" and with hollow metal manufacturer's written instructions.

J. Touch up damaged factory finishes.

## 3.4 TOLERANCES

A. Clearances Between Door and Frame: As specified in ANSI A250.8.

B. Maximum Diagonal Distortion: 1/16 in (1.5 mm) measured with straight edge, corner to corner.

## 3.5 ADJUSTING

A. Adjust for smooth and balanced door movement.
   1. Final Adjustments: Check and readjust operating hardware items immediately before final inspection. Leave work in complete and proper operating condition. Remove and replace defective work, including hollow metal work that is warped, bowed, or otherwise unacceptable.

B. Adjust doors so that seals are fully engaged when door is closed.

C. Test doors for force to close, latch, and unlatch; adjust as necessary in compliance with requirements.

D. Remove grout and other bonding material from hollow metal work immediately after installation.

E. Prime-Coat and Painted Finish Touchup: Immediately after erection, sand smooth rusted or damaged areas of prime coat, or painted finishes, and apply touchup of compatible air drying, rust-inhibitive primer, zinc rich primer (exterior and galvanized openings) or finish paint.

## 3.6 SCHEDULE - SEE DRAWINGS

**END OF SECTION**

# SECTION 08 1416
# FLUSH WOOD DOORS

## PART 1 GENERAL

### 1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specifications Sections, apply to this Section.

### 1.2 SECTION INCLUDES

A. Flush wood doors; flush and flush glazed configuration; fire rated and non-rated.

### 1.3 RELATED REQUIREMENTS

A. Section 08 1113 - Hollow Metal Doors and Frames.

B. Section 08 7100 - DOOR HARDWARE.

C. Section 08 8000 - Glazing.

### 1.4 REFERENCE STANDARDS

A. 16 CFR 1201 - Safety Standard for Architectural Glazing Materials; current edition.

B. ASTM C1048 - Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass; 2012.

C. ASTM C1172 - Standard Specification for Laminated Architectural Flat Glass; 2014.

D. AWI (QCP) - Quality Certification Program, www.awiqcp.org; current edition at www.awiqcp.org.

E. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards; 2014.

F. ITS (DIR) - Directory of Listed Products; Intertek Testing Services NA, Inc.; current edition.

G. NFPA 80 - Standard for Fire Doors and Other Opening Protectives; 2013.

H. NFPA 105 - Standard for Smoke Door Assemblies and Other Opening Protectives; 2013

I. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies; National Fire Protection Association; 2012.

J. UL (BMD) - Building Materials Directory; Underwriters Laboratories Inc.; current edition.

K. UL 10B - Standard for Fire Tests of Door Assemblies; Current Edition, Including All Revisions.

L. UL 10C - Standard for Positive Pressure Fire Tests of Door Assemblies; Current Edition, Including All Revisions.

## 1.5 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements, for submittal procedures.

B. Product Data: Indicate door core materials and construction; veneer species, type and characteristics.
   1. For each type of door indicated. Include details of core and edge construction, louvers, trim for openings, and WDMA I.S.1-A or AWS classifications. Include factory finishing specifications.

C. Door hardware supplier is to furnish templates, template reference number and/or physical hardware to the wood door supplier in order to prepare the doors and frames to receive the finish hardware items.

D. Shop Drawings: Show doors and frames, elevations, sizes, types, swings, undercuts, beveling, blocking for hardware, factory machining, factory finishing, cutouts for glazing and other details.
   1. Shop Drawings: Indicate location, size, and hand of each door; elevation of each kind of door; construction details not covered in Product Data; location and extent of hardware blocking; and other pertinent data.
      a. Indicate dimensions and locations of mortises and holes for hardware.
      b. Indicate dimensions and locations of cutouts.
      c. Indicate requirements for veneer matching.
      d. Indicate doors to be factory finished and finish requirements.
      e. Indicate fire protection ratings for fire rated doors.
   2. Provide the information required by AWI/AWMAC/WI (AWS).
   3. Include certification program label.

E. Specimen warranty.

F. Samples: Submit two samples of door veneer, 8 by 10 inch (203 by 254 mm) in size illustrating wood grain, stain color, and sheen.
   1. Factory finishes applied to actual door face materials.
   2. For each wood species and transparent finish, provide set of three samples showing typical range of color and grain to be expected in the finished work.

G. Manufacturer's Installation Instructions: Indicate special installation instructions.

H. Warranty, executed in Owner's name.

## 1.6 QUALITY ASSURANCE

A. Source Limitations: Obtain flush wood doors through one source from a single manufacturer wherever possible.

B. Maintain one copy of the specified door quality standard on site for review during installation and finishing.

C. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum 10 years of documented experience.
   1. Accredited participant in the specified certification program prior to the commencement of fabrication and throughout the duration of the project.

D. Quality Certification: Provide AWI (QCP) inspection report and quality certification of completed work.
   1. Provide labels or certificates indicating that the work complies with requirements of AWI/AWMAC/WI (AWS) grade or grades specified.
   2. Prior to delivery to the site provide shop drawings with certification labels.
   3. Provide labels on each product when required by certification program.
   4. Upon completion of installation provide certificate certifying that the installation and products meet the specified requirements.
   5. Arrange and pay for inspections required for certification.
   6. Replace, repair, or rework all work for which certification is refused.

E. Installed Fire Rated Door Assembly: Conform to NFPA 80 for fire rated class as indicated.
   1. Fire Rated Wood Doors: Doors that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing at positive pressure according to NFPA 252 (neutral pressure at 40” above sill) or UL 10C (neutral pressure testing according to UL 10B where specified).
      a. Smoke Control Door Assemblies: Comply with NFPA 105.
         1) Smoke "S" Label: Doors to bear “S” label, and include smoke and draft control gasketing applied to frame and on meeting stiles of pair doors.
      b. Blocking: When through-bolts are not to be used, indicate size and location of blocking in 45, 60 and 90 minute mineral core doors.

F. Pre-Submittal Conference: Conduct conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier, Installer, and Contractor to review proper methods and procedures for receiving, handling, and installing flush wood doors.

## 1.7 DELIVERY, STORAGE, AND HANDLING

A. Package, deliver and store doors in accordance with specified quality standard.

B. Accept doors on site in manufacturer's packaging. Inspect for damage.

C. Protect doors with resilient packaging sealed with heat shrunk plastic. Do not store in damp or wet areas; or in areas where sunlight might bleach veneer. Seal top and bottom edges with tinted sealer if stored more than one week. Break seal on site to permit ventilation.

D. Mark each door on top rail with opening number used on Shop Drawings.

## 1.8 PROJECT CONDITIONS

A. Environmental Limitations: Do not deliver or install doors until spaces are enclosed and weather tight, wet work in spaces is complete and dry, and HVAC system is operating and maintaining ambient temperature and humidity conditions at occupancy levels during the remainder of the construction period.

## 1.9 WARRANTY

A. See Section 01 7800 - Closeout Submittals, for additional warranty requirements.

B. Interior Doors: Provide manufacturer's warranty for the life of the installation.

C. Include coverage for delamination of veneer, warping beyond specified installation tolerances, defective materials, and telegraphing core construction.

D. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace doors that fail in materials or workmanship within specified warranty period.
   1. Failures include, but are not limited to, the following:
      a. Warping (bow, cup, or twist) more than 1/4 inch in a 42-by-84-inch section.
      b. Telegraphing of core construction in wood face veneers exceeding 0.01 inch in a 3-inch span.
      c. Telegraphing of core construction and delaminating of face in decorative laminate-faced doors.
   2. Warranty includes installation and finishing that may be required due to repair or replacement of defective doors.
   3. Warranty Period for Solid Core Interior Doors: Life of installation according to manufacturer's written warranty.

# PART 2 PRODUCTS

## 2.1 DOOR CONSTRUCTION - GENERAL

A. WDMA I.S.1-A Performance Grade: Extra Heavy Duty; Aesthetic Grade: Premium.

B. Fire Rated Doors: Provide construction and core as needed to provide fire ratings indicated.
   1. Category A Edge Construction: Provide 45, 60 and 90 minute fire rated doors edge construction with intumescent seals concealed by outer stile (Category A). Comply with specified requirements for exposed edges.
   2. Pairs: Provide fire retardant stiles that are listed and labeled for applications indicated without formed steel edges and astragals. Provide stiles with concealed intumescent seals. Comply with specified requirements for exposed edges.
      a. Where required or specified, provide formed steel edges and astragals with intumescent seals. Finish steel edges and astragals with baked enamel.

## 2.2 MANUFACTURERS

A. Wood Veneer Faced Doors:
   1. Algoma Hardwoods, Inc.: www.algomahardwoods.com.
   2. Eggers Industries: www.eggersindustries.com.
   3. Graham Wood Doors: www.grahamdoors.com.
   4. Marshfield DoorSystems, Inc: www.marshfielddoors.com.
   5. VT Architectural Wood Doors: www.vtindustries.com.
   6. Substitutions: See Section 01 6300 - Product Substitution Procedures.

## 2.3 DOORS

A. All Doors: See drawings for locations and additional requirements.
   1. Quality Level: Custom Grade, Standard Duty performance, in accordance with AWI/AWMAC/WI (AWS).
   2. Wood Veneer Faced Doors: 5-ply or 7-ply unless otherwise indicated.

B. Interior Doors: 1-3/4 inches (44 mm) thick unless otherwise indicated; flush construction.
   1. Provide solid core doors at all locations.
   2. Fire Rated Doors: Tested to ratings indicated on drawings in accordance with NFPA 252 or UL 10B - Negative (Neutral) Pressure; Underwriters Laboratories Inc. (UL) or Intertek/Warnock Hersey (WHI) labeled without any visible seals when door is open.
   3. Wood veneer facing with factory transparent finish .

## 2.4 DOOR AND PANEL CORES

A. Non-Rated Solid Core and 20 Minute Rated Doors: Type particleboard core (PC), plies and faces as indicated.
   1. Particleboard Core Doors:
      a. Particleboard: Wood fiber based materials complying with ANSI A208.1 Particleboard standard. Grade LD-2.
      b. Adhesive: Fully bonded construction using Polyurethane (PUR) glue.
      c. Blocking: When through-bolted hardware is not used, provide wood blocking in particleboard core doors as follows:
         1) 5-inch (125-mm) top-rail blocking, in doors indicated to have closers.
         2) 5-inch (125-mm) mid-rail blocking, in doors indicated to have exit devices.
            (a) Optional Cores for Blocking: Provide doors with either glued-wood-stave or structural-composite-lumber core instead of particleboard core for doors indicated to receive closers and exit devices.

B. Fire Rated Doors: Mineral core type, with fire resistant composite core (FD), plies and faces as indicated above; with core blocking as required to provide adequate anchorage of hardware without through-bolting.

## 2.5 DOOR FACINGS

A. Veneer Facing for Transparent Finish: White Maple, HPVA Grade A, plain sliced (flat cut), with book match between leaves of veneer, running match of spliced veneer leaves assembled on door or panel face.
   1. Vertical Edges: veneered edge to match face.
   2. "Pair Match" each pair of doors; "Set Match" pairs of doors within 10 feet (3 m) of each other when doors are closed.

B. Facing Adhesive: Type I - waterproof.

## 2.6 ACCESSORIES

A. Glazing: As specified in Section 08 8000.

B. Glazing Stops: Wood, of same species as door facing, butted corners; prepared for countersink style tamper proof screws.
   1. Wood Beads for Light Openings in Wood Doors up to and including 20-minute rating.
   2. Profile: Manufacturer’s standard lipped profile. At wood core doors with 20-minute fire protection ratings, provide wood beads and metal glazing clips approved for such use.

C. Metal Frames for Light Openings in Fire Rated Doors over 20-minute rating: Manufacturer's standard frame formed of 0.048-inch-thick, cold rolled steel sheet; with baked enamel or powder coated finish; and approved for use in doors of fire protection rating indicated.

D. Astragals for Non-Rated Double Doors: Steel, T shaped, overlapping and recessed at face edge.

E. Astragals for Fire Rated Double Doors: Steel, T shaped, overlapping and recessed at face edge, specifically for double doors.

## 2.7 DOOR CONSTRUCTION

A. Fabricate doors in accordance with door quality standard specified.

B. Where supplementary protective edge trim is required, install trim after veneer facing has been applied full-width.

C. Glazed Openings: Non-removable stops on non-secure side; sizes and configurations as indicated on drawings.

D. Factory machine doors for hardware other than surface-mounted hardware, in accordance with hardware requirements and dimensions.
   1. Coordinate with hardware mortises in metal frames to verify dimensions and alignment before factory machining.
   2. Metal Astragals: Factory machine astragals and formed steel edges for hardware for pairs of fire rated doors.

E. Openings: Cut and trim openings through doors in factory.
   1. Light Openings: Trim openings with moldings of material and profile indicated.
   2. Glazing: Comply with applicable requirements in Division 08 Section "Glazing."

F. Factory fit doors for frame opening dimensions identified on shop drawings, with edge clearances in accordance with specified quality standard.

G. Provide edge clearances in accordance with the quality standard specified.

### 2.8 FACTORY FINISHING - WOOD VENEER DOORS

A. Finish work in accordance with AWI/AWMAC/WI (AWS), Section 5 - Finishing for grade specified and as follows:
   1. Transparent:
      a. System - 9, UV Curable, Acrylated Epoxy, Polyester or Urethane.
      b. Stain: As selected by Architect.
         1) From manufacturer's full range.
      c. Sheen: Satin.

B. Factory finish doors in accordance with approved sample.
   1. Complete fabrication, including fitting doors for openings and machining for hardware that is not surface applied, before finishing.
      a. Finish faces, all four edges, edges of cutouts, and mortises. Stains and fillers may be omitted on top and bottom edges, edges of cutouts, and mortises.

C. Seal door top edge with color sealer to match door facing.

## PART 3 EXECUTION

### 3.1 EXAMINATION

A. Verify existing conditions before starting work.

B. Verify that opening sizes and tolerances are acceptable.

C. Do not install doors in frame openings that are not plumb or are out-of-tolerance for size or alignment.

D. Examine doors and installed door frames before hanging doors.
   1. Verify that frames comply with indicated requirements for type, size, location, and swing characteristics and have been installed with level heads and plumb jambs.
   2. Reject doors with defects.

E. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 INSTALLATION

A. Hardware: For installation, see Division 8 Section "Door Hardware."

B. Install doors in accordance with manufacturer's instructions and specified quality standard.
   1. Install fire-rated doors in accordance with NFPA 80 requirements.

C. Factory-Finished Doors: Do not field cut or trim; if fit or clearance is not correct, replace door.

D. Use machine tools to cut or drill for hardware.

E. Coordinate installation of doors with installation of frames and hardware.

F. Coordinate installation of glazing.

## 3.3 TOLERANCES

A. Conform to specified quality standard for fit and clearance tolerances.

B. Conform to specified quality standard for telegraphing, warp, and squareness.

## 3.4 ADJUSTING

A. Adjust doors for smooth and balanced door movement.

B. Adjust closers for full closure.

C. Operation: Re-hang or replace doors that do not swing or operate freely.

## 3.5 SCHEDULE - SEE DRAWINGS

**END OF SECTION**

# SECTION 08 7100

# DOOR HARDWARE

## PART 1 - GENERAL

### 1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

### 1.2 SUMMARY

A. This Section includes commercial door hardware for the following:

1. Swinging doors.
2. Sliding doors.
3. Other doors to the extent indicated.

B. Door hardware includes, but is not necessarily limited to, the following:

1. Mechanical door hardware.
2. Electromechanical door hardware.
3. Cylinders specified for doors in other sections.

C. Related Sections:

1. Division 08 Section “Door Hardware Schedule”.
2. Division 08 Section “Hollow Metal Doors and Frames”.
3. Division 08 Section “Flush Wood Doors”.
4. Division 08 Section “Access Control Hardware”.

D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.

1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
2. ICC/IBC - International Building Code.
3. NFPA 70 - National Electrical Code.
4. NFPA 80 - Fire Doors and Windows.
5. NFPA 101 - Life Safety Code.
6. NFPA 105 - Installation of Smoke Door Assemblies.
7. State Building Codes, Local Amendments.

E. Standards: All hardware specified herein shall comply with the following industry standards:

1. ANSI/BHMA Certified Product Standards - A156 Series
2. UL10C – Positive Pressure Fire Tests of Door Assemblies

## 1.3 SUBMITTALS

A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.

B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."

2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.

3. Content: Include the following information:

    a. Type, style, function, size, label, hand, and finish of each door hardware item.
    b. Manufacturer of each item.
    c. Fastenings and other pertinent information.
    d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
    e. Explanation of abbreviations, symbols, and codes contained in schedule.
    f. Mounting locations for door hardware.
    g. Door and frame sizes and materials.
    h. Warranty information for each product.

4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.

C. Shop Drawings: Details of electrified access control hardware indicating the following:

1. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:

    a. Elevation diagram of each unique access controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.
    b. Complete (risers, point-to-point) access control system block wiring diagrams.
    c. Wiring instructions for each electronic component scheduled herein.

2. Electrical Coordination: Coordinate with related sections the voltages and wiring details required at electrically controlled and operated hardware openings.

D. Proof of Certification: Provide copy of manufacturer(s) official certification or accreditation document indicating proof of status as a qualified and authorized provider of the primary Integrated Wiegand Access Control Products.

E. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.

F. Informational Submittals:

1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

G. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Submittals.

## 1.4 QUALITY ASSURANCE

A. Hardware Supplier and Hardware Installer must obtain a license with the Louisiana Office of State Fire Marshall in accordance to RS 40:1464 and RS 40:1664.

B. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.

C. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to

that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.

D. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.

E. Integrated Wiegand, Wireless, and IP-Enabled Access Control Products Supplier Qualifications: Integrated access control products and accessories are required to be supplied and installed through current members of the ASSA ABLOY "Authorized Channel Partner" (ACP) and "Certified Integrator" (CI) programs. Suppliers are to be factory trained, certified prior to project bid, and a direct purchaser of the specified product. Installers are to be factory trained, certified prior to project bid, and are responsible for commissioning, servicing, and warranting the installed equipment specified for the project.

F. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.

1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.

2. Provide electromechanical door hardware from the same manufacturer as mechanical door hardware, unless otherwise indicated.

G. Each unit to bear third party permanent label demonstrating compliance with the referenced standards.

H. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:

1. Function of building, purpose of each area and degree of security required.
2. Plans for existing and future key system expansion.
3. Requirements for key control storage and software.
4. Installation of permanent keys, cylinder cores and software.
5. Address and requirements for delivery of keys.

I. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.

1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
3. Review sequence of operation narratives for each unique access controlled opening.
4. Review and finalize construction schedule and verify availability of materials.
5. Review the required inspecting, testing, commissioning, and demonstration procedures

J. At completion of installation, provide written documentation that components were applied to manufacturer's instructions and recommendations and according to approved schedule.

## 1.5 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.

B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.

C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

## 1.6 COORDINATION

A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.

B. Door Hardware and Electrical Connections: Coordinate the layout and installation of scheduled electrified door hardware and related access control equipment with required connections to source power junction boxes, low voltage power supplies, detection and monitoring hardware, and fire and detection alarm systems.

C. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

## 1.7 WARRANTY

A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:

1. Structural failures including excessive deflection, cracking, or breakage.
2. Faulty operation of the hardware.
3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
4. Electrical component defects and failures within the systems operation.

C. Standard Warranty Period: One year from date of Substantial Completion, unless otherwise indicated.

D. Special Warranty Periods:

1. Ten years for mortise locks and latches.
2. Five years for exit hardware.
3. Five years for motorized electric latch retraction exit devices.
4. Two years for electromechanical door hardware.

## 1.8 MAINTENANCE SERVICE

A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

## PART 2 - PRODUCTS

### 2.1 SCHEDULED DOOR HARDWARE

A. General: Provide door hardware for each door to comply with requirements in Door Hardware Sets and each referenced section that products are to be supplied under.

B. Designations: Requirements for quantity, item, size, finish or color, grade, function, and other distinctive qualities of each type of door hardware are indicated in the Door Hardware Sets at the end of Part 3. Products are identified by using door hardware designations, as follows:

1. Named Manufacturer's Products: Product designation and manufacturer are listed for each door hardware type required for the purpose of establishing requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.

C. Substitutions: Requests for substitution and product approval for inclusive mechanical and electromechanical door hardware in compliance with the specifications must be submitted in writing and in accordance with the procedures and time frames outlined in Division 01, Substitution Procedures. Approval of requests is at the discretion of the architect, owner, and their designated consultants.

### 2.2 HANGING DEVICES

A. Hinges: ANSI/BHMA A156.1 certified butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.

1. Quantity: Provide the following hinge quantity:

    a. Two Hinges: For doors with heights up to 60 inches.
    b. Three Hinges: For doors with heights 61 to 90 inches.
    c. Four Hinges: For doors with heights 91 to 120 inches.
    d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.

2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:

    a. Widths up to 3’0”: 4-1/2” standard or heavy weight as specified.
    b. Sizes from 3’1” to 4’0”: 5” standard or heavy weight as specified.

3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:

a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.

4. Hinge Options: Comply with the following:

a. Non-removable Pins: Provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for the all out-swinging lockable doors.

5. Manufacturers:

a. Hager Companies (HA).
b. Ives (IV).
c. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK).

B. Sliding and Folding Door Hardware: Hardware is to be of type and design as specified and should comply with ANSI/BHMA A156.14.

1. Sliding Bi-Passing Pocket Door Hardware: Provide complete sets consisting of track, hangers, stops, bumpers, floor channel, guides, and accessories indicated.

2. Bi-folding Door Hardware: Rated for door panels weighing up to 125 lb.

3. Pocket Sliding Door Hardware: Rated for doors weighing up to 200 lb.

4. Manufacturers:

a. Hager Companies (HA).
b. Johnson Hardware (JO).
c. Pemko Products; ASSA ABLOY Architectural Door Accessories (PE).

## 2.3 POWER TRANSFER DEVICES

A. Electrified Quick Connect Transfer Hinges: Provide electrified transfer hinges with Molex™ standardized plug connectors and sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.

1. Manufacturers:

a. Hager Companies (HA) - ETW-QC (# wires) Option.

b. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - QC (# wires) Option.

B. Electric Door Wire Harnesses: Provide electric/data transfer wiring harnesses with standardized plug connectors to accommodate up to twelve (12) wires. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Provide sufficient number and type of concealed wires to accommodate electric function of specified hardware. Provide a connector for through-door electronic locking devices and from hinge to junction box above the opening. Wire nut connections are not acceptable. Determine the length required for each electrified hardware component for the door type, size and construction, minimum of two per electrified opening.

1. Provide one each of the following tools as part of the base bid contract:
   a. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - Electrical Connecting Kit: QC-R001.
   b. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - Connector Hand Tool: QC-R003.

2. Manufacturers:

   a. Hager Companies (HA) - Quick Connect.
   b. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) – QC-C Series.

## 2.4 DOOR OPERATING TRIM

A. Flush Bolts and Surface Bolts: ANSI/BHMA A156.3 and A156.16, Grade 1, certified.

1. Flush bolts to be furnished with top rod of sufficient length to allow bolt retraction device location approximately six feet from the floor.
2. Furnish dust proof strikes for bottom bolts.
3. Surface bolts to be minimum 8” in length and U.L. listed for labeled fire doors and U.L. listed for windstorm components where applicable.
4. Provide related accessories (mounting brackets, strikes, coordinators, etc.) as required for appropriate installation and operation.

5. Manufacturers:

   a. Door Controls International (DC).
   b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
   c. Trimco (TC).

## 2.5 CYLINDERS AND KEYING

A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.

B. Source Limitations: Obtain each type of keyed cylinder and keys from the same source manufacturer as locksets and exit devices, unless otherwise indicated.

C. Cylinders: Original manufacturer cylinders complying with the following:

1. Mortise Type: Threaded cylinders with rings and cams to suit hardware application.
2. Rim Type: Cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
3. Bored-Lock Type: Cylinders with tailpieces to suit locks.
4. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
5. Keyway: Manufacturer's Standard.

D. Patented Cylinders: ANSI/BHMA A156.5, Grade 1, certified cylinders employing a utility patented and restricted keyway requiring the use of patented controlled keys. Provide bump resistant, fixed core cylinders as standard with solid recessed cylinder collars. Cylinders are to be factory keyed where permanent keying records will be established and maintained.

1. Provide a 6 pin multi-level master key system comprised of patented controlled keys and security and high security cylinders operated by one (1) key of the highest level. Geographical exclusivity to be provided for all security and high security cylinders and UL437 certification where specified.

    a. Level 1 Cylinders: Provide utility patented controlled keyway cylinders that are furnished with patented keys available only from authorized distribution.
    b. Level 2 Cylinders: Provide utility patented controlled keyway and side bar locking incorporating unique angled bottom pins for geographical exclusivity. Cylinders constructed to provide protection against bumping and picking.
    c. Level 3 Cylinders: Provide utility patented controlled keyway and side bar locking incorporating unique angled bottom pins for geographical exclusivity. Cylinders to be UL437 certified and constructed to provide protection against bumping, picking, and drilling.
    d. Refer to hardware sets for specified levels.

2. Manufacturers:
    a. Sargent Manufacturing (SA) - Degree Series.
    b. Corbin Russwin (RU) – Access 3 Series.

E. Keying System: Each type of lock and cylinders to be factory keyed.

1. Conduct specified "Keying Conference" to define and document keying system instructions and requirements.
2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
3. New System: Key locks to a new key system as directed by the Owner.

F. Key Quantity: Provide the following minimum number of keys:

1. Change Keys per Cylinder: Two (2)
2. Master Keys (per Master Key Level/Group): Five (5).
3. Construction Keys (where required): Ten (10).

G. Construction Keying: Provide construction master keyed cylinders.

H. Key Registration List (Bitting List):

1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.
2. Provide transcript list in writing or electronic file as directed by the Owner.

I. Key Control Software: Provide one network version of "Key Wizard" branded key management software package that includes one year of technical support and upgrades to software at no charge. Provide factory key system formatted for importing into “Key Wizard” software.

## 2.6 MECHANICAL LOCKS AND LATCHING DEVICES

A. Mortise Locksets, Grade 1 (Heavy Duty): ANSI/BHMA A156.13, Series 1000, Operational Grade 1 certified. Locksets are to be manufactured with a corrosion resistant steel case and be field-reversible for handing without disassembly of the lock body.

1. Manufacturers:

a. Corbin Russwin Hardware (RU) – ML2000 Series.
b. Sargent Manufacturing (SA) – 8200 Series.
c. Schlage (SC) – L9000 Series.

## 2.7 INTEGRATED WIEGAND OUTPUT LOCKING DEVICES – MULTI-CLASS READER

A. Integrated Wiegand Output Multi-Class Mortise Locks: Wiegand output ANSI A156.13, Grade 1, mortise lockset with integrated card reader, request-to-exit signaling, door position status switch, and latchbolt monitoring in one complete unit. Hard wired, solenoid driven locking/unlocking control of the lever handle trim, 3/4" deadlocking anti-friction latch, and 1" case-hardened steel deadbolt. Lock is U.L listed and

labeled for use on up to 3 hour fire rated openings. Available with or without keyed high security cylinder override.

1. Open architecture, hard wired platform supports centralized control of locking units with new or existing Wiegand compatible access control systems. Latchbolt monitoring and door position switch act in conjunction to report door-in-frame (DPS) and door latched (door closed and latched) conditions.
2. Integrated reader supports the following credentials:
    a. 125kHz proximity credentials: HID, AWID, Indala, and EM4102.
    b. 13.56 MHz proximity credentials: HID iClass, HID iClass SE, SE for MIFARE Classic, DESFire EV1.
3. 12VDC external power supply required for reader and lock, with optional 24VDC lock solenoid. Fail safe or fail secure options.
4. Energy Efficient Design: Provide lock bodies which have a holding current draw of 15mA maximum, and can operate on either 12 or 24 volts. Locks are to be field configurable for fail safe or fail secure operation.
5. Support end-of-line resistors contained within the lock case.
6. Installation requires only one cable run from the lock to the access control panel without requirements for additional proprietary lock panel interface boards or modules.
7. Installation to include manufacturer's access control panel interface board or module where required for Wiegand output protocol.

8. Manufacturers:

    a. Corbin Russwin (RU) – ML2000 SE-LP10 Series.
    b. Sargent Manufacturing (SA) – M1 8200 Series.

## 2.8 LOCK AND LATCH STRIKES

A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:

1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.

B. Standards: Comply with the following:

1. Strikes for Mortise Locks and Latches: BHMA A156.13.
2. Strikes for Bored Locks and Latches: BHMA A156.2.
3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
4. Dustproof Strikes: BHMA A156.16.

## 2.9 CONVENTIONAL EXIT DEVICES

A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:

1. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.

2. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer's catalog and template book for specific requirements.

3. Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.

4. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.

5. Electromechanical Options: Subject to same compliance standards and requirements as mechanical exit devices, electrified devices to be of type and design as specified in hardware sets. Include any specific controllers when conventional power supplies are not sufficient to provide the proper inrush current.

6. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.

    a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.
    b. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.

7. Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor.

8. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2" wide stiles.

9. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.

10. Rail Sizing: Provide exit device rails factory sized for proper door width application.

11. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.

12. Hurricane and Tornado Resistance Compliance: Conventional exit devices are to be U.L. listed for windstorm assemblies where applicable. Provide the appropriate hurricane or tornado resistant products that have been independent third party tested, certified, and labeled to meet state and local windstorm building codes applicable to project.

B. Conventional Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 certified panic and fire exit hardware devices furnished in the functions specified in the Hardware Sets. Exit device latch to be stainless steel, pullman type, with deadlock feature.

1. Manufacturers:

a. Corbin Russwin Hardware (RU) - ED4000 / ED5000 Series.
b. Sargent Manufacturing (SA) - 80 Series.
c. Von Duprin (VD) - 35A/98 XP Series.

## 2.10 INTEGRATED WIEGAND OUTPUT EXIT DEVICES – MULTI-CLASS READER

A. Integrated Wiegand Output Multi-Class Exit Hardware: Wiegand output ANSI 156.3 Grade 1 rim, mortise, and vertical rod exit device hardware with integrated proximity card reader, latchbolt and touchbar monitoring, and request-to-exit signaling, in one complete unit. Hard wired, solenoid driven locking/unlocking control of the lever handle exit trim with 3/4" throw latch bolt. U.L listed and labeled for either panic or "fire exit hardware" for use on up to 3 hour fire rated openings. Available with or without keyed high security cylinder override.

1. Open architecture, hard wired platform supports centralized control of locking units with new or existing Wiegand compatible access control systems. Inside push bar (request-to-exit) signaling and door position (open/closed status) monitoring (via separately connected DPS).
2. Integrated reader supports the following credentials:
   a. 125kHz proximity credentials: HID, AWID, Indala, and EM4102.
   b. 13.56 MHz proximity credentials: HID iClass, HID iClass SE, SE for MIFARE Classic, DESFire EV1.
3. 12VDC external power supply required for reader. 24VDC required for solenoid operated exit trim. Fail safe or fail secure options.
4. Installation requires only one cable run from the exit hardware to the access control panel without requirements for additional proprietary lock panel interface boards or modules.

5. Competitor Alternates Allowed Option>Installation to include manufacturer's access control panel interface board or module where required for Wiegand output protocol.

6. Manufacturers:

    a. Corbin Russwin (RU) – ED5000 SE-LP10 Series.
    b. Sargent Manufacturing (SA) – M1 80 Series.

## 2.11 DOOR CLOSERS

A. All door closers specified herein shall meet or exceed the following criteria:

1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers including installation and adjusting information on inside of cover.

2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.

3. Cycle Testing: Provide closers which have surpassed 15 million cycles in a test witnessed and verified by UL.

4. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the physically handicapped, provide units complying with ANSI ICC/A117.1.

5. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.

6. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.

7. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.

B. Door Closers, Surface Mounted (Large Body Cast Iron): ANSI/BHMA A156.4, Grade 1 surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control.

1. Manufacturers:

    a. Corbin Russwin Hardware (RU) - DC8000 Series.
    b. LCN Closers (LC) - 4040XP Series.
    c. Sargent Manufacturing (SA) - 281 Series.

## 2.12 ARCHITECTURAL TRIM

A. Door Protective Trim

1. General: Door protective trim units to be of type and design as specified below or in the Hardware Sets.

2. Size: Fabricate protection plates (kick, armor, or mop) not more than 2" less than door width (LDW) on stop side of single doors and 1" LDW on stop side of pairs of doors, and not more than 1" less than door width on pull side. Coordinate and provide proper width and height as required where conflicting hardware dictates. Height to be as specified in the Hardware Sets.

3. Where plates are applied to fire rated doors with the top of the plate more than 16" above the bottom of the door, provide plates complying with NFPA 80. Consult manufacturer's catalog and template book for specific requirements for size and applications.

4. Protection Plates: ANSI/BHMA A156.6 certified protection plates (kick, armor, or mop), fabricated from the following:

    a. Stainless Steel: 300 grade, 050-inch thick.

5. Options and fasteners: Provide manufacturer's designated fastener type as specified in the Hardware Sets. Provide countersunk screw holes.

6. Manufacturers:

    a. Hiawatha, Inc. (HI).
    b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
    c. Trimco (TC).

## 2.13 DOOR STOPS AND HOLDERS

A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.

B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 certified door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do

not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.

1. Manufacturers:

    a. Hiawatha, Inc. (HI).
    b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
    c. Trimco (TC).

C. Overhead Door Stops and Holders: ANSI/BHMA A156.6, Grade 1 certified overhead stops and holders to be surface or concealed types as indicated in Hardware Sets. Track, slide, arm and jamb bracket to be constructed of extruded bronze and shock absorber spring of heavy tempered steel. Provide non-handed design with mounting brackets as required for proper operation and function.

1. Manufacturers:

    a. Rixson Door Controls (RF).
    b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
    c. Sargent Manufacturing (SA).

## 2.14 ARCHITECTURAL SEALS

A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.

B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.

1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.

C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.

1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NPFA 252, Standard Methods of Fire Tests of Door Assemblies.

D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.

E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.

F. Manufacturers:

1. National Guard Products (NG).
2. Pemko Products; ASSA ABLOY Architectural Door Accessories (PE).
3. Reese Enterprises, Inc. (RE).

## 2.15 ELECTRONIC ACCESSORIES

A. Power Supplies: Provide Nationally Recognized Testing Laboratory Listed 12VDC or 24VDC (field selectable) filtered and regulated power supplies. Include battery backup option with integral battery charging capability in addition to operating the DC load in event of line voltage failure. Provide the least number of units, at the appropriate amperage level, sufficient to exceed the required total draw for the specified electrified hardware and access control equipment.

1. Manufacturers:

a. Security Door Controls (SD) - 630 Series.
b. Securitron (SU) - BPS Series.

## 2.16 FABRICATION

A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

## 2.17 FINISHES

A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.

B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware

C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.

B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

### 3.2 PREPARATION

A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.

B. Wood Doors: Comply with ANSI/DHI A115-W series.

### 3.3 INSTALLATION

A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.

1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.

B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:

1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
2. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."
3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.

C. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective

trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.

D. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."

E. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

## 3.4 FIELD QUALITY CONTROL

A. Field Inspection: Supplier will perform a final inspection of installed door hardware and state in report whether work complies with or deviates from requirements, including whether door hardware is properly installed, operating and adjusted.

## 3.5 ADJUSTING

A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

## 3.6 CLEANING AND PROTECTION

A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.

B. Clean adjacent surfaces soiled by door hardware installation.

C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

## 3.7 DEMONSTRATION

A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

## 3.8 DOOR HARDWARE SETS

A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

B. The supplier is responsible for handing and sizing all products and providing the correct option for the appropriate door type and material where more than one is presented in the hardware sets. Quantities listed are for each pair of doors, or for each single door.

C. Manufacturer's Abbreviations:

1. MK - McKinney
2. PE - Pemko
3. RO - Rockwood
4. SA - Sargent
5. RF - Rixson
6. OT - OTHER
7. SU - Securitron

**Hardware Sets**

**Set: 2.0**

Doors: 106d, 111b, 112a

| | | | | |
|---|---|---|---|---|
| 3 | Hinge | TA2314 NRP 4-1/2" x 4-1/2" | US32D | MK |
| 1 | Hinge | TA2314 QC12 4-1/2" x 4-1/2" | US32D | MK |
| 1 | Exit Device (Latch Retraction) | DG163 55 56 WS 8804 FSW | US32D | SA |
| 1 | Door Closer | 281 CPS | EN | SA |
| 1 | Kick Plate | K1050 - 10" x 2" LDW x 4BE x CSK | US32D | RO |
| 1 | Threshold | 171A | | PE |
| 1 | Rain Guard | 346C x Width of Frame Head | | PE |
| 1 | Gasketing | 2891APK | | PE |
| 1 | Sweep | 315CN | | PE |
| 1 | Card Reader | By Security Supplier | | |
| 1 | ElectroLynx Harness | QC-C**** | | MK |

| | | | | |
|---|---|---|---|---|
| 1 | ElectroLynx Harness | QC-C1500P | MK | ☐ |
| 1 | Power Supply | BPS (Size & Type as Required) | SU | ☐ |

Notes: Card reader, door position switch, power supply by security. Door is normally closed, latched, and secured. Valid credential for ingress, free egress at all times. Coordinate with security and electrical.

THE ABOVE HARDWARE IS ILLUSTRATED AS A BASIS OF DESIGN. IF ALTERNATE HARDWARE IS REQUIRED TO MEET WINDSTORM CODES, PROVIDE ARCHITECT WITH INFORMATION ON HARDWARE SUBSTITUTED FOR THAT WHICH IS SPECIFIED.

**Set: 3.0**

Doors: 100a

| | | | | | |
|---|---|---|---|---|---|
| 3 | Hinge | TA2314 NRP 4-1/2" x 4-1/2" | US32D | MK | |
| 1 | Hinge | TA2314 QC12 4-1/2" x 4-1/2" | US32D | MK | ☐ |
| 1 | Exit Device (Latch Retraction) | DG163 55 56 WS 8804 FSW | US32D | SA | ☐ |
| 1 | Door Closer | 281 CPS | EN | SA | |
| 1 | Threshold | 171A | | PE | |
| 1 | Perimeter Gasketing | Provided by door/frame manufacturer | | OT | |
| 1 | Rain Guard | 346C x Width of Frame Head | | PE | |
| 1 | Sweep | 315CN | | PE | |
| 1 | Card Reader | By Security Supplier | | | |
| 1 | ElectroLynx Harness | QC-C**** | | MK | ☐ |
| 1 | ElectroLynx Harness | QC-C1500P | | MK | ☐ |
| 1 | Push Button | EEB2 | | SU | ☐ |
| 1 | Power Supply | BPS (Size & Type as Required) | | SU | ☐ |

Notes: Card reader, door position switch, power supply by security. Door is normally closed, latched, and secured. Valid credential for ingress, free egress at all times. Coordinate with security and electrical. Coordinate buzz in/remote release.

THE ABOVE HARDWARE IS ILLUSTRATED AS A BASIS OF DESIGN. IF ALTERNATE HARDWARE IS REQUIRED TO MEET WINDSTORM CODES, PROVIDE ARCHITECT WITH INFORMATION ON HARDWARE SUBSTITUTED FOR THAT WHICH IS SPECIFIED.

**Set: 4.0**

Doors: 101c, 112b, 112c

| | | | | | |
|---|---|---|---|---|---|
| 2 | Hinge | TA2714 4-1/2" x 4-1/2" | US26D | MK | |
| 1 | Hinge | TA2714 QC12 4-1/2" x 4-1/2" | US26D | MK | ☐ |

| | | | | |
|---|---|---|---|---|
| 1 | Access Control Mort Lock | DG163 M1-82271-BIPS LNMB | US26D | SA |
| 1 | Door Closer | 281 O/P9 arm to suit conditions | EN | SA |
| 1 | Kick Plate | K1050 - 10" x 2" LDW x 4BE x CSK | US32D | RO |
| 1 | Wall Stop | 403 / 441CU (As Req'd) | US26D | RO |
| 1 | Threshold | 171A | | PE |
| 1 | Gasketing | 2891APK | | PE |
| 1 | Sweep | 315CN | | PE |
| 1 | ElectroLynx Harness | QC-C**** | | MK |
| 1 | ElectroLynx Harness | QC-C1500P | | MK |
| 1 | Power Supply | BPS (Size & Type as Required) | | SU |

Notes: Door is normally closed, latched, and secured. Valid credential for ingress, free egress at all times. Coordinate with security and electrical.

**Set: 5.0**

Doors: 101a

| | | | | |
|---|---|---|---|---|
| 2 | Hinge | TA2714 4-1/2" x 4-1/2" | US26D | MK |
| 1 | Hinge | TA2714 QC12 4-1/2" x 4-1/2" | US26D | MK |
| 1 | Access Control Rim Exit | DG163 M1-8876-BIPS ETMB | US32D | SA |
| 1 | Door Closer | 281 CPS | EN | SA |
| 1 | Kick Plate | K1050 - 10" x 2" LDW x 4BE x CSK | US32D | RO |
| 1 | Gasketing | S88D (Head & Jambs) | | PE |
| 1 | ElectroLynx Harness | QC-C**** | | MK |
| 1 | ElectroLynx Harness | QC-C1500P | | MK |
| 1 | Power Supply | BPS (Size & Type as Required) | | SU |

Notes: Door is normally closed and secured, free egress at all times. Valid credential allows ingress. Upon activation of fire alarm, lock unlocks.

**Set: 6.0**

Doors: 107a

| | | | | |
|---|---|---|---|---|
| 6 | Hinge | TA2714 4-1/2" x 4-1/2" | US26D | MK |
| 2 | Manual Flush Bolt | 555/557 to suit application | US26D | RO |
| 1 | Dust Proof Strike | 570 | US26D | RO |
| 1 | Storeroom Lock | DG163 8204 LNMB | US26D | SA |
| 1 | Door Closer | 281 O/P9 arm to suit conditions | EN | SA |

| | | | |
|---|---|---|---|
| 2 Kick Plate | K1050 - 10" x 1" LDW x 4BE x CSK | US32D | RO |
| 2 Wall Stop | 403 / 441CU (As Req'd) | US26D | RO |
| 1 Gasketing | S88D (Head & Jambs) | | PE |
| 2 Astragal | 29324CNB | | PE |

**Set: 7.0**

Doors: 119a, 119b

| | | | |
|---|---|---|---|
| 6 Hinge | TA2714 4-1/2" x 4-1/2" | US26D | MK |
| 2 Manual Flush Bolt | 555/557 to suit application | US26D | RO |
| 1 Dust Proof Strike | 570 | US26D | RO |
| 1 Storeroom Lock | DG163 8204 LNMB | US26D | SA |
| 2 Conc Overhead Stop | 1ADJ-X36 | 689 | RF |

**Set: 8.0**

Doors: 121a

| | | | |
|---|---|---|---|
| 6 Hinge | TA2714 4-1/2" x 4-1/2" | US26D | MK |
| 2 Manual Flush Bolt | 555/557 to suit application | US26D | RO |
| 1 Dust Proof Strike | 570 | US26D | RO |
| 1 Storeroom Lock | DG163 8204 LNMB | US26D | SA |
| 1 Conc Overhead Stop | 1ADJ-X36 | 689 | RF |
| 1 Door Closer | 281 CPS | EN | SA |
| 1 Gasketing | S88D (Head & Jambs) | | PE |
| 2 Gasketing | 2891APK | | PE |
| 2 Astragal | 29324CNB | | PE |

**Set: 9.0**

Doors: 120a

| | | | |
|---|---|---|---|
| 3 Hinge | TA2714 4-1/2" x 4-1/2" | US26D | MK |
| 1 Storeroom Lock | DG163 8204 LNMB | US26D | SA |
| 1 Wall Stop | 403 / 441CU (As Req'd) | US26D | RO |

**Set: 10.0**

Doors: 103a, 104a

| | | | |
|---|---|---|---|
| 3 Hinge | TA2714 4-1/2" x 4-1/2" | US26D | MK |
| 1 Privacy Lock | 49 8265 LNMB | US26D | SA |

| | | | | |
|---|---|---|---|---|
| 1 | Door Closer | 281 O/P9 arm to suit conditions | EN | SA |
| 1 | Kick Plate | K1050 - 10" x 2" LDW x 4BE x CSK | US32D | RO |
| 1 | Wall Stop | 403 / 441CU (As Req'd) | US26D | RO |
| 1 | Gasketing | S88D (Head & Jambs) | | PE |

**Set: 11.0**

Doors: 113a, 114a, 115a, 116a, 117a, 118a

| | | | | |
|---|---|---|---|---|
| 3 | Hinge | TA2714 4-1/2" x 4-1/2" | US26D | MK |
| 1 | Privacy Lock | 49 8265 LNMB | US26D | SA |
| 1 | Conc Overhead Stop | 1ADJ-X36 | 689 | RF |
| 1 | Door Closer | 281 O/P9 arm to suit conditions | EN | SA |
| 1 | Kick Plate | K1050 - 10" x 2" LDW x 4BE x CSK | US32D | RO |
| 1 | Gasketing | S88D (Head & Jambs) | | PE |

**Set: 12.0**

Doors: 108a

| | | | | |
|---|---|---|---|---|
| 3 | Hinge | TA2714 4-1/2" x 4-1/2" | US26D | MK |
| 1 | Privacy Lock | 49 8265 LNMB | US26D | SA |
| 1 | Wall Stop | 403 / 441CU (As Req'd) | US26D | RO |
| 1 | Gasketing | S88D (Head & Jambs) | | PE |

**Set: 13.0**

Doors: 101b, 105a, 110a

| | | | | |
|---|---|---|---|---|
| 3 | Hinge | TA2714 4-1/2" x 4-1/2" | US26D | MK |
| 1 | Classroom Lock | DG163 8237 LNMB | US26D | SA |
| 1 | Door Closer | 281 O/P9 arm to suit conditions | EN | SA |
| 1 | Kick Plate | K1050 - 10" x 2" LDW x 4BE x CSK | US32D | RO |
| 1 | Wall Stop | 403 / 441CU (As Req'd) | US26D | RO |
| 1 | Gasketing | S88D (Head & Jambs) | | PE |

**Set: 14.0**

Doors: 101d

| | | | | |
|---|---|---|---|---|
| 1 | Bi-Fold Hardware Set | HF4/100A__ | | PE |
| 2 | Roller Latch | 592 | US26D | RO |
| 2 | Door Pull | RM3310-12 | US32D | RO |

**Set: 15.0**

Doors: 106a, 106b, 106c, 111a, 111d

| | | | |
|---|---|---|---|
| 1 Assembly Components | Provided by manufacturer | | OT |

**Set: 16.0**

Doors: 109a

| | | | |
|---|---|---|---|
| 3 Hinge | TA2714 4-1/2" x 4-1/2" | US26D | MK |
| 1 Office/Entry Lock | DG163 8255 LNMB | US26D | SA |
| 1 Door Closer | 281 O/P9 arm to suit conditions | EN | SA |
| 1 Kick Plate | K1050 - 10" x 2" LDW x 4BE x CSK | US32D | RO |
| 1 Wall Stop | 403 / 441CU (As Req'd) | US26D | RO |
| 1 Gasketing | S88D (Head & Jambs) | | PE |

**END OF SECTION 087100**

# SECTION 10 7500

# FLAGPOLES

## PART 1 GENERAL

### 1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specifications Sections, apply to this Section.

### 1.2 SECTION INCLUDES

A. Aluminum Flagpoles.

### 1.3 RELATED REQUIREMENTS

A. Section 03 3000 - Cast-in-Place Concrete: Concrete base and foundation construction.

B. Section 31 2323 - Fill: Sand to fill foundation tube sleeve.

### 1.4 REFERENCE STANDARDS

A. AASHTO M 36 - Standard Specification for Corrugated Steel Pipe, Metallic-Coated, for Sewers and Drains; 2014.

B. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2014.

C. NAAMM FP 1001 - Guide Specifications for Design Loads of Metal Flagpoles; 2007.

### 1.5 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements, for submittal procedures.

B. Product Data: Provide data on pole, accessories, and configurations.

C. Shop Drawings: Indicate detailed dimensions, base details, anchor requirements, and imposed loads.

D. Maintenance Data: Provide lubrication and periodic maintenance requirement schedules and truck maintenance.

### 1.6 DELIVERY, STORAGE, AND HANDLING

A. Spiral wrap flagpole with protective covering and pack in protective shipping tubes or containers.

## PART 2 PRODUCTS

### 2.1 MANUFACTURERS

A. Flagpoles:
   1. American Flagpole; www.americanflagpole.com.
   2. Concord Industries, Inc: www.concordindustries.com.
   3. Substitutions: See Section 01 6000 - Product Requirements.

### 2.2 FLAGPOLES

A. Flagpoles: Designed in accordance with NAAMM FP 1001.
   1. Material: Aluminum.
   2. Design: Straight shaft.
   3. Mounting: Ground mounted type.
   4. Outside Butt Diameter: 8 inches (203 mm).
   5. Outside Tip Diameter: 4 inches (102 mm).
   6. Nominal Wall Thickness: .188 inches (4.78 mm).
   7. Nominal Height: 35 ft (10.66 m); measured from nominal ground elevation.
   8. Halyard: External type.

B. Performance Requirements:
   1. Wind Pressure Loading on Flagpole with Flag: Resistant without permanent deformation to 200 miles/hr (322 km/hr) wind speed, in accordance with NAAMM FP 1001; the factor of safety used is 2.5.

### 2.3 ACCESSORIES

A. Finial Ball: Gold Anodized Aluminum, 6 inch (150 mm) diameter.

B. Truck Assembly: Cast aluminum; revolving, stainless steel ball bearings, non-fouling.

C. Cleats: 9 inch (230 mm) size, aluminum with galvanized steel fastenings, two per halyard.

D. Halyard: 5/16 inch (8 mm) diameter polypropylene, braided, white.

E. Primer: Zinc chromate type.

### 2.4 MOUNTING COMPONENTS

A. Foundation Tube Sleeve: AASHTO M 36, corrugated 16 gage, 0.0598 inch (1.52 mm) steel, galvanized, depth of 3'-6" inches (1067 mm) as indicated.

B. Pole Base Attachment: Flush; steel base with base cover.

C. Lighting Ground Rod: 36 inch (915 mm) long copper rod, 3/4 inch (19 mm) diameter.

### 2.5 FINISHING

A. Metal Surfaces in Contact With Concrete: Asphaltic paint.

B. Aluminum: Mill finish.

C. Finial: Spun finish.

## PART 3 EXECUTION

### 3.1 INSTALLATION

A. Install flagpole, base assembly, and fittings in accordance with manufacturer's instructions.

### 3.2 TOLERANCES

A. Maximum Variation From Plumb: 1 inch (25 mm).

### 3.3 ADJUSTING

A. Adjust operating devices so that halyard and flag function smoothly.

**END OF SECTION**

THIS PAGE IS BLANK

# SECTION 13 3419
# METAL BUILDING SYSTEMS

## PART 1 GENERAL

### 1.1 RELATED DOCUMENTS

A. Drawings and General Provisions of the Contract, including General and Supplemental Conditions and other Division 01 Specifications, apply to this Section.

### 1.2 SECTION INCLUDES

A. Manufacturer-engineered, shop-fabricated structural steel building frame.

B. Metal roof panels.

C. Metal wall panels.

D. Metal soffit panels.

E. Ridge Vents.

F. Edge Trim.

G. Corner Trim.

H. Accessories.

### 1.3 RELATED REQUIREMENTS

A. Section 03 3000 – Cast-in-place concrete.

B. Section 05 1200 – Structural Steel Framing.

C. Section 09 0005 - Joint Sealers.

D. Section 07 9200 - Joint Sealants: Sealing joints between accessory components and wall system.

E. Section 07 9513 - Expansion Joint Cover Assemblies.

F. Section 08 1113 - Hollow Metal Doors and Frames.

G. Section 08 1416 - Flush Wood Doors. For interior doors.

H. Section 08 3323 - Overhead Coiling Doors. For coiling vehicular doors in metal building systems.

I. Section 08 4313 - Aluminum-Framed Storefronts. For aluminum door systems and windows.

J. Section 08 4500 - Translucent Wall and Roof Assemblies. For translucent window assembly.

K. Section 08 9113 – Aluminum Windows

L. Section 08 8000 - Glazing.

M. Section 08 9000 - Louvers and Vents.

## 1.4 REFERENCE STANDARDS

A. AISC 360 - Specification for Structural Steel Buildings; American Institute of Steel Construction, Inc.; 2010.

B. NAIMA 202-96 - Standard for Flexible Fiber Glass Insulation to be Laminated for Use in Metal Buildings; North American Insulation Manufacturers Association; Rev. 2000.

C. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2009.

D. ASTM A307 - Standard Specification for Carbon Steel Bolts, Studs, and Threaded Rod 60 000 PSI Tensile Strength; 2012.

E. ASTM A490M - Standard Specification for High-Strength Steel Bolts, Classes 10.9 and 10.9.3, for Structural Steel Joints (Metric); 2012

F. ASTM A500/A500M - Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes; 2013.

G. ASTM A792/A792M - Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot-Dip Process; 2010.

H. ASTM A992/A992M - Standard Specification for Structural Steel Shapes; 2011.

I. ASTM C920 - Standard Specification for Elastomeric Joint Sealants; 2014.

J. ASTM C991 - Standard Specification for Flexible Glass Fiber Insulation for Metal Buildings; 2008e1.

K. ASTM C1107/C1107M - Standard Specification for Packaged Dry, Hydraulic-Cement Grout (Nonshrink); 2014.

L. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2014.

M. AWS A2.4 - Standard Symbols for Welding, Brazing, and Nondestructive Examination; American Welding Society; 2012.

N. AWS D1.1/D1.1M - Structural Welding Code - Steel; American Welding Society; 2010 w/Errata.

O. IAS AC472 - Accreditation Criteria for Inspection Programs for Manufacturers of Metal Building Systems; 2012.

P. MBMA (MBSM) - Metal Building Systems Manual; Metal Building Manufacturers Association; 2012.

Q. SSPC-Paint 20 - Zinc-Rich Primers (Type I, "Inorganic," and Type II, "Organic"); Society for Protective Coatings; 2002 (Ed. 2004).

R. UL 580 - Standard for Tests for Uplift Resistance of Roof Assemblies; Underwriters Laboratories Inc.; Current Edition, Including All Revisions.

## 1.5 DEFINITIONS

A. Terminology Standard: See MBMA's "Metal Building Systems Manual" for definitions of terms for metal building system construction not otherwise defined in this Section or in standards referenced by this Section.

## 1.6 COORDINATION

A. Coordinate sizes and locations of concrete foundations and casting of anchor-rod inserts into foundation walls and footings. Anchor rod installation, concrete, reinforcement, and formwork requirements are specified in Section 033000 "Cast-in-Place Concrete."

B. Coordinate metal panel assemblies with rain drainage work, flashing, trim, and construction of supports and other adjoining work to provide a leakproof, secure, and noncorrosive installation.

## 1.7 ADMINISTRATIVE REQUIREMENTS

A. Pre-installation Meeting: Convene two weeks before starting work of this section.
   1. Conduct at Project Site.
   2. Attendants to include Contractor, Owner's representative, Architect, metal building manufacturer's representative, erector, and those contractors affected by this scope of work.
   3. Review methods and procedures related to metal building systems including, but not limited to, the following:
      a. Condition of foundations and other preparatory work performed by other trades.
      b. Structural load limitations.
      c. Construction schedule. Verify availability of materials and erector's personnel, equipment, and facilities needed to make progress and avoid delays.
      d. Required tests, inspections, and certifications.
      e. Unfavorable weather and forecasted weather conditions and impact on construction schedule.
   4. Review methods and procedures related to metal roof panel assemblies including, but not limited to, the following:

a. Compliance with requirements for purlin and rafter conditions, including flatness and attachment to structural members.
b. Structural limitations of purlins and rafters during and after roofing.
c. Flashings, special roof details, roof drainage, roof penetrations, equipment curbs, and condition of other construction that will affect metal roof panels.
d. Temporary protection requirements for metal roof panel assembly during and after installation.
e. Roof observation and repair after metal roof panel installation.

5. Review methods and procedures related to metal wall panel assemblies including, but not limited to, the following:
   a. Compliance with requirements for support conditions, including alignment between and attachment to structural members.
   b. Structural limitations of girts and columns during and after wall panel installation.
   c. Flashings, special siding details, wall penetrations, openings, and condition of other construction that will affect metal wall panels.
   d. Temporary protection requirements for metal wall panel assembly during and after installation.
   e. Wall observation and repair after metal wall panel installation.

## 1.8 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements, for submittal procedures.

B. Product Data: Provide data for each type of metal building system component.
   1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for the following:
      a. Metal roof panels.
      b. Metal wall panels.
      c. Thermal insulation and vapor-retarder facings.

C. Shop Drawings: Indicate assembly dimensions, locations of structural members, connections, attachments, openings, cambers, loads, and anchors; wall and roof system dimensions, panel layout, general construction details, anchorages and method of anchorage, installation, and coordinated/detailed opening conditions; framing anchor bolt settings, sizes, and locations from datum, foundation loads; indicate welded connections with AWS A2.4 welding symbols; indicate net weld lengths; the shop drawings shall be sealed and signed by a professional structural engineer currently licensed in the State of Louisiana.
   1. Indicate components by others. Include full building plan, elevations, sections, details and the following:
      a. Anchor-Rod Plans: Submit anchor-rod plans and templates before foundation work begins. Include location, diameter, material type, and minimum required projection of anchor rods required to attach metal building to foundation. Indicate column reactions at each location.
      b. Structural-Framing Drawings: Show complete fabrication of primary and secondary framing; include provisions for openings. Indicate welds and

bolted connections, distinguishing between shop and field applications. Include transverse cross-sections.
1) Show provisions for attaching pipe racks and conduit racks.
(a) Coordinate with bridge crane system, electrical devices, louvers, and exhaust systems.

c. Metal Roof and Wall Panel Layout Drawings: Show layouts of panels including methods of support and fastening. Include details of edge conditions, joints, panel profiles, corners, anchorages, clip spacing, trim, flashings, closures, and special details. Distinguish between factory- and field-assembled work; show locations of exposed fasteners.
1) Show roof-mounted items including roof hatches, equipment supports, pipe supports and penetrations, lighting fixtures, and items mounted on roof curbs.
2) Show wall-mounted items including personnel doors, vehicular doors, windows, louvers, lighting fixtures and associated flashing details for each condition.
3) Show translucent panels.

d. Accessory Drawings: Include details of the following items, at a scale of not less than 1-1/2 inches per 12 inches (1:8):
1) Flashing and trim.
2) Gutters.
3) Downspouts.

D. Samples for Initial Selection: Submit two samples of pre-coated metal panels for each color selected, 12 x 12 inch (305 x 305 mm) in size illustrating color and texture of finish.

E. Samples for Verification: For the following products:
1. Panels: Nominal 12-inches (305 mm) long by actual panel width. Include fasteners, closures, and other exposed panel accessories.
2. Flashing and Trim: Nominal 12-inches (305 mm) long. Include fasteners and other exposed accessories.
3. Vapor-Retarder Facings: Nominal 6-inches (152 mm) square Samples.
4. Windows: Full-size, nominal 12-inches (305mm) long frame Samples showing typical profile.
5. Accessories: Nominal 12-inches (305mm) long Samples for each type of accessory.

F. Delegated-Design Submittal: For metal building systems.
1. Include analysis data indicating compliance with performance requirements and design data signed and sealed by the qualified professional engineer responsible for their preparation licensed in the State of Louisiana.

G. Qualification Data: For manufacturer and erector.

H. Welding certificates.

I. Letter of Design Certification: Signed and sealed by a qualified professional engineer licensed by the State of Louisiana. Include the following:

1. Name and location of Project.
2. Order number.
3. Name of manufacturer.
4. Name of Contractor.
5. Building dimensions including width, length, height, and roof slope.
6. Indicate compliance with AISC standards for hot-rolled steel and AISI standards for cold-rolled steel, including edition dates of each standard.
7. Governing building code and year of edition.
8. Design Loads: Include dead load, roof live load, collateral loads, roof snow load, deflection, wind loads/speeds and exposure, seismic design category or effective peak velocity-related acceleration/peak acceleration, and auxiliary loads (cranes).
9. Load Combinations: Indicate that loads were applied acting simultaneously with concentrated loads, according to governing building code.
10. Building-Use Category: Indicate category of building use and its effect on load importance factors.

J. Erector Certificates: For qualified erector, from manufacturer.

K. Source quality-control reports.

L. Sample Warranties: For special warranties.

M. Erection Drawings: Indicate members by label, assembly sequence, and temporary erection bracing.

N. Manufacturer Qualification Statement: Provide documentation showing metal building manufacturer is accredited under IAS AC472.
   1. Include statement that manufacturer designs and fabricates metal building system as integrated components and assemblies, including but not limited to primary structural members, secondary members, joints, roof, and wall cladding components specifically designed to support and transfer loads and properly assembled components form a complete or partial building shell.

## 1.9 CLOSEOUT SUBMITTALS

A. Maintenance Data: For metal panel finishes to include in maintenance manuals.

## 1.10 QUALITY ASSURANCE

A. Design structural components, develop shop drawings, and perform shop and site work under direct supervision of a Professional Structural Engineer experienced in design of this Work.
   1. Design Engineer Qualifications: Licensed in LOUISIANA.
      a. Engineering Responsibility: Preparation of comprehensive engineering analysis and Shop Drawings by a professional engineer who is legally qualified to practice in jurisdiction where Project is located.
   2. Conform to applicable code for submission of design calculations as required for acquiring permits.

3. Cooperate with regulatory agency or authority and provide data as requested.

B. Perform work in accordance with AISC 360, MBMA (MBSM), and applicable building code.
   1. Maintain one copy on site.

C. Perform welding in accordance with AWS D1.1/D1.1M, "Structural Welding Code-Steel", and AWS D1.3, "Structural Welding Code- Sheet Steel".
   1. Procedures and personnel qualified for each.

D. Manufacturer Qualifications: Company specializing in the manufacture of products similar to those required for this project.
   1. Not less than ten (10) years of documented experience.
   2. Accredited by IAS in accordance with IAS AC472.
      a. Facility accredited according to "Accreditation Criteria for Inspection Programs for Manufacturers of Metal Building Systems."

E. Erector Qualifications: Company specializing in performing the work of this section with minimum ten (10) years experience.
   1. Experienced and specializes in erecting and installing work similar in material, design, and extent to that indicated for this Project and who is a manufacturer approved erector.

## 1.11 DELIVERY, STORAGE, AND HANDLING

A. Deliver components, sheets, panels, and other manufactured items so as not to be damaged or deformed. Package metal panels for protection during transportation and handling.

B. Unload, store, and erect metal panels in a manner to prevent bending, warping, twisting, and surface damage.

C. Stack metal panels horizontally on platforms or pallets, covered with suitable weather tight and ventilated covering. Store metal panels to ensure dryness, with positive slope for drainage of water. Do not store metal panels in contact with other materials that might cause staining, denting, or other surface damage.

## 1.12 FIELD CONDITIONS

A. Weather Limitations: Proceed with panel installation only when weather conditions permit metal panels to be installed according to manufacturer's written instructions and warranty requirements.

## 1.13 WARRANTY

A. See Section 01 7800 - Closeout Submittals, for additional warranty requirements.

B. Correct defective Work within a five (5) year period after Date of Substantial Completion.

C. Provide five (5) year manufacturer warranty for Metal Building System integrity.
   1. Include coverage for exterior pre-finished surfaces to cover pre-finished color coat against chipping, cracking or crazing, blistering, peeling, chalking, or fading. Include coverage for weather tightness of building enclosure elements after installation.

D. Special Warranty on Metal Panel Finishes: Manufacturer agrees to repair finish or replace metal panels that show evidence of deterioration of factory-applied finishes within specified warranty period.
   1. Exposed Panel Finish: Deterioration includes, but is not limited to, the following:
      a. Color fading more than 5 Hunter units when tested according to ASTM D 2244.
      b. Chalking in excess of a No. 8 rating when tested according to ASTM D 4214.
      c. Cracking, checking, peeling, or failure of paint to adhere to bare metal.
   2. Finish Warranty Period: 30 years from date of Substantial Completion.

E. Special Weather tightness Warranty for Standing-Seam Metal Roof Panels: Manufacturer agrees to repair or replace standing-seam metal roof panel assemblies that leak or otherwise fail to remain weather tight within specified warranty period.
   1. Warranty Period: Twenty (20) years from date of Substantial Completion.

## PART 2 PRODUCTS

### 2.1 MANUFACTURERS

A. Metal Buildings:
   1. Butler Manufacturing Company: www.butlermfg.com.
   2. Ceco Building Systems: www.cecobuildings.com.
   3. Kirby Building Systems: www.kirbybuildingsystems.com.
   4. Metallic Building Company: www.metallic.com.
   5. Nucor Building Systems: www.nucorbuildingsystems.com. **BASIS OF DESIGN.**
   6. VP Buildings: www.vp.com.
   7. Substitutions: See Section 01 6300 - Product Substitution Procedures.

B. Source Limitations: Obtain metal building system components, including primary and secondary framing and metal panel assemblies, from single source from single manufacturer.

### 2.2 METAL BUILDING

A. Provide a complete, integrated set of mutually dependent components and assemblies that form a metal building system capable of withstanding structural and other loads, thermally induced movement, and exposure to weather without failure or infiltration of water into building interior. All columns shall be designed with pinned-type base conditions.

B. Primary-Frame Types:

1. Warehouse Building: Rigid Frame, Clear Span, Gable (RCG). Without interior columns.
2. Administration Building: Rigid Frame, Clear Span, Single Slope (RCS). Without interior columns.
3. Stand-Alone Dispatch Building: Rigid Frame, Clear Span, Single Slope (RCS). Without interior columns.

C. Bay Spacing: As indicated on Drawings.

D. Primary Framing: Rigid frame of rafter beams and columns, canopy beams and end wall columns, and wind bracing. Wind and seismic lateral resistance system shall be comprised of rigid frames in transverse (short) direction and portal frames and x-rod bracing (as indicated on drawings) in longitudinal (long) direction.

E. End-Wall Framing:
1. End-Wall Framing: Manufacturer's standard, for buildings not required to be expandable, consisting of load-bearing end-wall and corner columns and rafters.

F. Secondary Framing: Purlins, Girts, Eave struts, Flange bracing, Sill supports, and Clips, and other items detailed.
1. Manufacturer's standard purlins and joists and exterior-framed (bypass girts) girts.

G. Eave Height: As indicated on Drawings.

H. Wall System: Preformed metal panels of vertical profile, with sub-girt framing/anchorage assembly, insulation, and liner sheets, and accessory components.

I. Roof System: Preformed metal panels oriented parallel to slope, with sub-girt framing/anchorage assembly, insulation, and liner panels, and accessory components.
1. Manufacturer's standard lap-seam, tapered-rib metal roof panels.

J. Roof Slope: As indicated on Drawings.

## 2.3 MATERIALS - FRAMING

A. General:
1. Structural Steel: Comply with AISC 360, "Specification for Structural Steel Buildings."
2. Bolted Connections: Comply with RCSC's "Specification for Structural Joints Using High-Strength Bolts."
3. Cold-Formed Steel: Comply with AISI's "North American Specification for the Design of Cold-Formed Steel Structural Members" for design requirements and allowable stresses.
4. Primary Framing: Manufacturer's standard primary-framing system, designed to withstand required loads and specified requirements. Primary framing includes transverse and lean-to frames; rafters, rake, and canopy beams; sidewall, intermediate, end-wall, and corner columns; and wind bracing.

a. General: Provide frames with attachment plates, bearing plates, and splice members. Factory drill for field-bolted assembly. Provide frame span and spacing indicated. (Hold dimension tolerances to match contract documents for all bays, face of girts to ledge dap out, end wall framing, eave height(s), and roof slope.)
   1) At frame rafters and columns (includes endwall framing, rigid frames and portal frames) provide ¼" minimum thickness at flanges and provide 3/16" minimum thickness at webs.

b. Rigid Clear-Span Frames: I-shaped frame sections fabricated from shop-welded, built-up steel plates or structural-steel shapes. **Interior columns are not permitted.**
c. Frame Configuration: Single gable or One-directional, sloped. Refer to Drawings.
d. Exterior Column: Tapered. Coordinate design with depth and width limits indicated on drawings.
e. Rafter: Tapered. Coordinate design with depth and width limits indicated on drawings.
f. Maximize pre-engineered metal building rigid frame span for the secondary overhead bridge crane support columns. Contractor shall coordinate with each manufacturer prior to submission of shop drawings.

5. End-Wall Framing: Manufacturer's standard primary end-wall framing fabricated for field-bolted assembly to comply with the following:
   a. End-Wall and Corner Columns: I-shaped sections fabricated from structural-steel shapes or shop-welded, built-up steel plates.
6. Secondary Framing: Manufacturer's standard secondary framing, including purlins, girts, eave struts, flange bracing, base members, gable angles, clips, headers, jambs, and other miscellaneous structural members. Unless otherwise indicated, provide 16 gage minimum thick (or greater as needed to comply with system performance requirements), fabricate framing from either cold-formed, structural-steel sheet or roll-formed, metallic-coated steel sheet, prepainted with coil coating, to comply with the following:
   a. Purlins: C- or Z-shaped sections; fabricated from built-up steel plates, steel sheet, or structural-steel shapes; minimum 2-1/2-inch- (64-mm-) wide flanges.
      1) Depth: As indicated on drawings.
      2) Spacing: As needed to comply with system performance requirements and coordination with roof panel design. 5'-0" max. spacing.
   b. Girts: C- or Z-shaped sections; fabricated from built-up steel plates, steel sheet, or structural-steel shapes. Form ends of Z-sections with stiffening lips angled 40 to 50 degrees from flange, with minimum 2-1/2-inch- (64-mm-) wide flanges.
      1) Depth: As indicated on drawings.
      2) Spacing: As needed to comply with system performance requirements and coordination with roof panel design. 5'-0" max. spacing.
   c. Eave Struts: Unequal-flange, C-shaped sections; fabricated from built-up steel plates, steel sheet, or structural-steel shapes; to provide adequate backup for metal panels.

d. Flange Bracing: Minimum 2-by-2-by-1/8-inch (51-by-51-by-3-mm) structural-steel angles or 1-inch- (25-mm-) diameter, cold-formed structural tubing to stiffen primary-frame flanges. Comply with drawing requirements where prohibited.
e. Sag Bracing: Minimum 1-by-1-by-1/8-inch (25-by-25-by-3-mm) structural-steel angles.
f. Base or Sill Angles: Manufacturer's standard base angle, minimum 3-by-2-inch (76-by-51-mm), 3/16” fabricated from zinc-coated (galvanized) steel sheet.
g. Purlin and Girt Clips: Manufacturer's standard clips fabricated from steel sheet. Provide galvanized clips where clips are connected to galvanized framing members.
h. Framing for Openings: Channel shapes; fabricated from cold-formed, structural-steel sheet or structural-steel shapes. Frame head and jamb of door openings and head, jamb, and sill of other openings.
i. Miscellaneous Structural Members: Manufacturer's standard sections fabricated from cold-formed, structural-steel sheet; built-up steel plates; or zinc-coated (galvanized) steel sheet; designed to withstand required loads.

7. Canopy Framing: Manufacturer's standard structural-framing system, designed to withstand required loads; fabricated from shop-welded, built-up steel plates or structural-steel shapes. Provide frames with attachment plates and splice members, factory drilled for field-bolted assembly.
   a. Type: As indicated on drawings.
8. Bracing: Provide adjustable wind bracing as indicated on drawings as follows:
   a. Rods: ASTM A 36/A 36M; ASTM A 572/A 572M, Grade 50 (345); or ASTM A 529/A 529M, Grade 50 (345); minimum 1/2-inch- (13-mm-) diameter steel; threaded full length or threaded a minimum of 6 inches (152 mm) at each end.
   b. Rigid Portal Frames: Fabricated from shop-welded, built-up steel plates or structural-steel shapes to match primary framing; of size required to withstand design loads.
   c. Diaphragm Action of Metal Panels: Metal panels at wall and roof shall not be designed as diaphrams to collect and transfer lateral loads to primary framing. Provide structural shapes designed for this purpose.

B. Structural Steel Members: ASTM A572/A572M, Grade 50.
   1. W-Shapes.
   2. Channels, Angles, M-Shapes and S-Shapes.

C. Structural Tubing: ASTM A500/A500M, Grade B cold-formed.

D. Structural-Steel Sheet: Hot-rolled, ASTM A 1011/A 1011M.

E. Plate or Bar Stock: ASTM A529/A529M, Grade 50.

F. Anchor Bolts: ASTM A307, unprimed.

G. Non-High-Strength Bolts, Nuts, and Washers: ASTM A 307, Grade A, carbon-steel, hex-head bolts; ASTM A 563 (ASTM A 563M) carbon-steel hex nuts; and ASTM F 844 plain (flat) steel washers.
   1. Finish: Hot-dipped zinc coating, ASTM F 2329, Class C.

H. Structural Bolts, Nuts, and Washers: ASTM A 325 (ASTM A 325M), Type 1, heavy-hex steel structural bolts; ASTM A 563 (ASTM A 563M) heavy-hex carbon-steel nuts; and ASTM F 436 (ASTM F 436M) hardened carbon-steel washers.
   1. Finish: Hot-dipped zinc coating, ASTM F 2329, Class C.

I. High-Strength Bolts, Nuts, and Washers: ASTM A 490 (ASTM A 490M), Type 1, heavy-hex steel structural bolts; ASTM A 563 (ASTM A 563M) heavy-hex carbon-steel nuts; and ASTM F 436 (ASTM F 436M) hardened carbon-steel washers, plain.

J. Welding Materials: Type required for materials being welded.

K. Primer: SSPC-Paint 20, zinc rich.
   1. Factory primed. Apply specified primer immediately after cleaning and pretreating.
      a. Clean and prepare in accordance with SSPC-SP2.
      b. Coat with manufacturer's standard primer. Apply primer to all framing to a minimum dry film thickness of 1 mil (0.025 mm).
         1) Prime secondary framing formed from uncoated steel sheet to a minimum dry film thickness of 0.5 mil (0.013 mm) on each side.
   2. Finish: Red-Oxide Primer.
      a. Unless noted otherwise.

L. Grout: ASTM C1107/C1107M, Non-shrink type, premixed compound consisting of non-metallic aggregate, cement, water reducing and plasticizing agents, capable of developing minimum compressive strength of 2400 psi (17 MPa) in two days and 7000 psi (48 MPa) in 28 days.

## 2.4 MATERIALS - WALLS AND ROOF

A. Steel Sheet: ASTM A792/A792M aluminum-zinc alloy coated to AZ50/AZM150.
   1. Minimum yield: 50 ksi.
   2. Panel Finish: 70 percent PVDF Resin paint system, 30-year finish warranty.

B. Wall Panels:
   1. **MWP-1**: Nucor Building Systems; Nucor Classic Wall Panel: www.nucorbuildingsystems.com. **BASIS OF DESIGN.**
      a. Gauge: Minimum 22, 0.030-inches (0.030 mm).
      b. Dimensions: 36 inches (915 mm) wide by 1-1/4 inches (32 mm) high.
      c. Finish Color:
         1) Medium Gray (MG).
   2. **MWP-2**: Nucor Building Systems; Nucor Accent Wall Panel: www.nucorbuildingsystems.com. **BASIS OF DESIGN.**
      a. Gauge: Minimum 22, 0.030-inches (0.030 mm).
      b. Dimensions: 36 inches (915 mm) wide by 1-1/4 inches (32 mm) high.

c. Finish Color:
   1) Royal Blue (RO).

C. Roof Panels:
1. **MRP-1**: Nucor Building Systems; Nucor Classic Roof Panel: www.nucorbuildingsystems.com. **BASIS OF DESIGN.**
   a. Gauge: Minimum 22, 0.030-inches (0.030 mm).
   b. Dimensions: 36 inches (915 mm) wide by 1-1/4 inches (32 mm) high.
   c. Finish Color:
      1) Regal White (RW).

D. Insulation: Filled Cavity (FC)/Long Tab Banded System.
1. Faced Fiberglass Insulation with exposed tabs, supplied in widths to match purlin spaces and lengths approximately 2 feet longer than bay spaces.
   a. R-Value: R- 19.
2. Un-faced Fiberglass Insulation, supplied in rolls compatible with roof panel widths.
   a. R-Value: R- 11.
3. Vapor Retarder: Lamtec Corporation; WMP-UV HD-50/PSKP: www.lamtec.com.
   a. Film: Polypropylene, White, 0.0015 inch (38.1 micron).
   b. Adhesive: Flame Resistant.
   c. Weight: 32 lbs/1000 sq. ft. (156 g/sq. m).
   d. Permeance per ASTM E 96: 0.02 perm (1.15 ng/Ns).
   e. Puncture Resistance per ASTM C 1136: 125 beach units (3.7 Joules).
   f. Tensile Strength per ASTM C 1136: 65 lbs/inch (11.4 kN/m) width (MD) and 60 lbs/inch (10.5 kN/m) width (XD).
   g. Caliper Thickness: 0.010 inch (254 micron).
   h. Mold Resistance per ASTM C 665 / C 1338: No growth.
   i. Dimensional Stability per ASTM D 1204: 0.25 percent.
   j. Light Reflectance per ASTM C 523: 85 percent.
   k. Flame Spread/Smoke Developed per ASTM E 84: 10/15.
4. Metal Banding: Supplied in coils, minimum 3/4 inches (19 mm) wide.
5. Banding Screws: Minimum 1/2 inch (13 mm) hex-head TEK screws.
6. Thermal Blocks: 1-inch (25 mm).

E. Joint Seal Gaskets: Manufacturer's standard type.

F. Fasteners: Manufacturer's standard type, galvanized to comply with requirements of ASTM A153/A153M, finish to match adjacent surfaces when exterior exposed.
1. For Painted finished roof panels: Long Life Cast Zinc head.
2. For wall panels: Coated carbon steel.
3. Color of exposed fastener heads to match the wall and roof panel finish.
4. Concealed Fasteners: Self-drilling type, of size required.

G. Sealant: Manufacturer's standard type.
1. Sidelaps: Factory applied non-skinning Butyl mastic.
2. Endlaps, Eave, Ridge Assembly, and Gable Flashings: Field applied 100% solids butyl-based elastomeric tape sealant, furnished in pre-cut lengths.

3. Outside Closures: Closed-cell, plastic or metal
4. Inside Closures: Closed-cell, plastic or metal

H. Trim, Closure Pieces, Caps, Flashings, Gutters, Downspouts, Rain Water Diverter, Fascias, and Infills: Same material, thickness and finish as exterior sheets; brake formed to required profiles.
   1. Provide trim at rakes, including peak and corner assemblies, high and low eaves, corners, bases, framed openings and as required or specified to provide weathertightness and a finished appearance.

## 2.5 ACCESSORY COMPONENTS

A. Doors and Frames: Specified in Section 08 1113.

B. Flush Wood Doors: Specified in Section 08 1416.

C. Overhead Coiling Doors: Specified in Section 08 3323.

D. Aluminum-Framed Storefronts: Specified in Section 08 4313.

E. Aluminum Windows: Specified in Section 08 5113

## 2.6 DESIGN CRITERIA

A. Delegated Design: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements," to design metal building system.

B. Installed Thermal Resistance of Wall System: R value of 13 (RSI value of 2.289).

C. Installed Thermal Resistance of Roof System: R value of 30 (RSI value of 5.283).

D. Structural Performance: Design members to withstand dead load, roof live load, floor live load, collateral loads, roof snow load, deflection, design loads due to pressure and suction of wind calculated in accordance with applicable code and seismic design category or effective peak velocity-related acceleration/peak acceleration.
   1. Design Loads: As indicated on Structural Drawings.
   2. Design members as indicated on structural and architectural drawings. The design code is 2015 International Building Code. See structural drawings for seismic design information and mechanical drawings for piping and other equipment or appurtenance support requirements. The reference standards shall be as indicated and the design engineer shall use the latest accepted versions if they are available.
   3. Deflection and Drift Limits: No greater than the following:
      a. Purlins and Rafters: Refer to Structural Drawings.
      b. Girts: Refer to Structural Drawings.
      c. Metal Roof Panels: Vertical deflection of the Manufacturer’s Engineering minimum requirements the span
      d. Metal Wall Panels: Horizontal deflection of the Manufacturer’s Engineering minimum requirements the span

d. Metal Wall Panels: Horizontal def.
e. Design secondary-framing system to accommodate deflection of primary framing and construction tolerances, and to maintain clearances at openings.
f. Lateral Drift: All metal building rigid frames, portal frames, and x-bracing shall be designed for maximum lateral drift in terms of the building eave height (H) of H/360.

4. Load Combinations: Indicate that loads were applied acting simultaneously with concentrated loads, according to governing building code.

E. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes by preventing buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base calculations on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.

F. Structural Performance for Metal Roof and Wall Panels: Provide metal panel systems capable of withstanding the effects of the following loads, based on testing according to ASTM E 1592:
1. Wind Loads: IBC 2015 component and cladding wind pressure chart will be on structural drawings.

G. Air Infiltration for Metal Roof Panels: Air leakage of not more than 0.06 cfm/sq. ft. (0.3 L/s per sq. m) when tested according to ASTM E 1680 at the following test-pressure difference:
1. Test-Pressure Difference: 56.16 lbf/sq.ft (2689 Pa).

H. Air Infiltration for Metal Wall Panels: Air leakage of not more than 0.06 cfm/sq. ft. (0.3 L/s per sq. m) when tested according to ASTM E 283 at the following test-pressure difference:
1. Test-Pressure Difference: 56.16 lbf/sq.ft.(2689 Pa).

I. Water Penetration for Metal Roof Panels: No water penetration when tested according to ASTM E 1646 at the following test-pressure difference:
1. Test-Pressure Difference: 56.16 lbf/sq.ft.(2689 Pa).

J. Water Penetration for Metal Wall Panels: No water penetration when tested according to ASTM E 331 at the following test-pressure difference:
1. Test-Pressure Difference: 56.16 lbf/sq.ft.(2689 Pa).

K. **Design members to withstand UL 580 Uplift Class 90.**

L. Provide drainage to exterior for water entering or condensation occurring within wall or roof system.

M. Permit movement of components without buckling, failure of joint seals, undue stress on fasteners or other detrimental effects, when subject to temperature range of 120 degrees F (67 degrees C), ambient; 180 degrees F (100 degrees C), material surfaces.

1. Base calculations on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.

N. Size and fabricate wall and roof systems free of distortion or defects detrimental to appearance or performance.

O. Permit movement between warehouse and administration building components to reduce vibration transmission caused by overhead crane system.

P. Design building to withstand transverse direction horizontal loads from overhead crane system.

## 2.7 FABRICATION - FRAMING

A. General: Design components and field connections required for erection to permit easy assembly.
   1. Mark each piece and part of the assembly to correspond with previously prepared erection drawings, diagrams, and instruction manuals.
   2. Fabricate structural framing to produce clean, smooth cuts and bends. Punch holes of proper size, shape, and location. Members shall be free of cracks, tears, and ruptures.

B. Fabricate members in accordance with AISC 360 for plate, bar, tube, or rolled structural shapes.

C. Primary Framing: Shop fabricate framing components to indicated size and section, with baseplates, bearing plates, stiffeners, and other items required for erection welded into place. Cut, form, punch, drill, and weld framing for bolted field assembly.
   1. Make shop connections by welding or by using high-strength bolts.
   2. Join flanges to webs of built-up members by a continuous, submerged arc-welding process.
   3. Where drawings allow the compression flange of primary framing may be braced with steel angles or cold-formed structural tubing between frame web and purlin web or girt web, so flange compressive strength is within allowable limits for any combination of loadings.
   4. Weld clips to frames for attaching secondary framing if applicable, or punch for bolts.
   5. Shop Priming: Prepare surfaces for shop priming according to SSPC-SP 2. Shop prime primary framing with specified primer after fabrication.

D. Secondary Framing: Shop fabricate framing components to indicated size and section by roll forming or break forming, with baseplates, bearing plates, stiffeners, and other plates required for erection welded into place. Cut, form, punch, drill, and weld secondary framing for bolted field connections to primary framing.
   1. Make shop connections by welding or by using high-strength bolts.

E. Anchor Bolts: Formed with bent shank, assembled with template for casting into concrete.

F. Provide wall opening framing for doors, windows, and other accessory components as indicated on drawings and as required for a complete and compliant installation.
   1. Including but not limited to the following:
      a. Translucent wall panels.
      b. Louvers.
      c. Overhead Doors/Frames.
      d. Exhaust Fans.
      e. Canopies.

## 2.8 FABRICATION - WALL AND ROOF PANELS

A. Fabricate and finish metal panels at the factory to greatest extent possible, by manufacturer's standard procedures and processes, as necessary to fulfill indicated performance requirements. Comply with indicated profiles and with dimensional and structural requirements.
   1. Provide panel profile, including major ribs and intermediate stiffening ribs, if any, for full length of metal panel.

B. Girts/Purlins: Rolled formed structural shape to receive siding, roofing sheet.

C. Internal and External Corners: Same material thickness and finish as adjacent material, profile brake formed to required angles.

D. Flashings, Closure Pieces, Fascia: Same material and finish as adjacent material, profile to suit system.

E. Fasteners: To maintain load requirements and weather tight installation, same finish as cladding, non-corrosive type.

## 2.9 FABRICATION - GUTTERS AND DOWNSPOUTS

A. Fabricate of same material and finish as roofing metal.
   1. Color to be selected by Architect from manufacturer's full range.

B. Form gutters and downspouts of rectangular profile and size indicated to collect and remove water. Fabricate with connection pieces.

C. Form sections in maximum possible lengths. Hem exposed edges. Allow for expansion at joints.

D. Fabricate support straps of same material and finish as roofing metal, color as selected.

## 2.10 FINISHES

A. Framing Members: Clean, prepare, and shop prime. Do not prime surfaces to be field welded.
   1. Paint exposed framing members as indicated on drawings.

B. Exterior Surfaces of Wall Components and Accessories: Precoated enamel on steel of 70 percent PVDF Resin paint system finish, colors as selected from manufacturer's full range.

## PART 3 EXECUTION

### 3.1 EXAMINATION

A. Verify that foundation, floor slab, mechanical and electrical utilities, and placed anchors are in correct position.
   1. Examine substrates, areas, and conditions, with erector present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. Before erection proceeds, survey elevations and locations of concrete- and masonry-bearing surfaces and locations of anchor rods, bearing plates, and other embedments to receive structural framing, with erector present, for compliance with requirements and metal building system manufacturer's tolerances.

C. Proceed with erection only after unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

A. Clean and prepare surfaces to be painted according to manufacturer's written instructions for each particular substrate condition.

B. Provide temporary shores, guys, braces, and other supports during erection to keep structural framing secure, plumb, and in alignment against temporary construction loads and loads equal in intensity to design loads. Remove temporary supports when permanent structural framing, connections, and bracing are in place unless otherwise indicated.

### 3.3 ERECTION - FRAMING

A. Erect framing in accordance with AISC 360.
   1. In addition to manufacturer's written instructions and drawings.

B. Provide for erection and wind loads. Provide temporary bracing to maintain structure plumb and in alignment until completion of erection and installation of permanent bracing.

C. Set column base plates with non-shrink grout to achieve full plate bearing.
   1. Clean concrete- bearing surfaces of bond-reducing materials, and roughen surfaces prior to setting plates. Clean bottom surface of plates.
      a. Set plates for structural members on wedges, shims, or setting nuts as required.
      b. Tighten anchor rods after supported members have been positioned and plumbed. Do not remove wedges or shims but, if protruding, cut off flush with edge of plate before packing with grout.

c. Promptly pack grout solidly between bearing surfaces and plates so no voids remain. Neatly finish exposed surfaces; protect grout and allow to cure. Comply with manufacturer's written installation instructions for shrinkage-resistant grouts.

D. Do not field cut, drill, or alter structural members without specific case written approval from metal building system manufacturer's professional engineer and the project architect.

E. Set structural framing accurately in locations and to elevations indicated, according to AISC specifications referenced in this Section. Maintain structural stability of frame during erection.

F. Align and adjust structural framing before permanently fastening. Before assembly, clean bearing surfaces and other surfaces that will be in permanent contact with framing. Perform necessary adjustments to compensate for discrepancies in elevations and alignment.
   1. Level and plumb individual members of structure.
   2. Make allowances for difference between temperature at time of erection and mean temperature when structure will be completed and in service.

G. Primary Framing and End Walls: Erect framing level, plumb, rigid, secure, and true to line. Level baseplates to a true even plane with full bearing to supporting structures, set with double-nutted anchor rods. Use grout to obtain uniform bearing and to maintain a level base-line elevation. Moist-cure grout for not less than seven days after placement.
   1. Make field connections using high-strength bolts installed according to RCSC's "Specification for Structural Joints Using High-Strength Bolts" for bolt type and joint type specified.
      a. Joint Type: Snug tightened or pretensioned as required by manufacturer.

H. Secondary Framing: Erect framing level, plumb, rigid, secure, and true to line. Field bolt secondary framing to clips attached to primary framing.
   1. Provide rake or gable purlins with tight-fitting closure channels and fasciae.
   2. Locate and space wall girts to suit openings such as doors and windows.
   3. Provide supplemental framing at entire perimeter of openings, including doors, windows, louvers, ventilators, and other penetrations of roof and walls.

I. Bracing: Install bracing in roof and sidewalls where indicated on erection drawings.
   1. Tighten rod and cable bracing to avoid sag.
   2. Locate interior end-bay bracing only where indicated.

J. Framing for Openings: Provide shapes of proper design and size to reinforce openings and to carry loads and vibrations imposed, including equipment furnished under mechanical and electrical work. Securely attach to structural framing.

K. Erection Tolerances: Maintain erection tolerances of structural framing within AISC 303.

L. After erection, prime welds, abrasions, and surfaces not shop primed.

## 3.4 METAL PANEL INSTALLATION, GENERAL

A. Fabricate and finish metal panels and accessories at the factory, by manufacturer's standard procedures and processes, as necessary to fulfill indicated performance requirements demonstrated by laboratory testing. Comply with indicated profiles and with dimensional and structural requirements.

B. Examine primary and secondary framing to verify that structural-panel support members and anchorages have been installed within alignment tolerances required by manufacturer.
   1. Examine roughing-in for components and systems penetrating metal panels, to verify actual locations of penetrations relative to seams before metal panel installation.

C. Anchor metal panels and other components of the Work securely in place, with provisions for thermal and structural movement.
   1. Field cut metal panels as required for doors, windows, and other openings. Cut openings as small as possible, neatly to size required, and without damage to adjacent metal panel finishes.
      a. Field cutting of metal panels by torch is not permitted unless approved in writing by manufacturer.
   2. Install metal panels perpendicular to structural supports unless otherwise indicated.
   3. Flash and seal metal panels with weather closures at perimeter of openings and similar elements. Fasten with self-tapping screws.
   4. Locate and space fastenings in uniform vertical and horizontal alignment.
   5. Locate metal panel splices over structural supports with end laps in alignment.
   6. Lap metal flashing over metal panels to allow moisture to run over and off the material.

D. Lap-Seam Metal Panels: Install screw fasteners using power tools with controlled torque adjusted to compress EPDM washers tightly without damage to washers, screw threads, or metal panels. Install screws in predrilled holes.
   1. Arrange and nest side-lap joints so prevailing winds blow over, not into, lapped joints. Lap ribbed or fluted sheets one full rib corrugation. Apply metal panels and associated items for neat and weathertight enclosure. Avoid "panel creep" or application not true to line.

E. Metal Protection: Where dissimilar metals contact each other or corrosive substrates, protect against galvanic action by painting contact surfaces with corrosion-resistant coating, by applying rubberized-asphalt underlayment to each contact surface, or by other permanent separation as recommended by metal roof panel manufacturer.

F. Joint Sealers: Install gaskets, joint fillers, and sealants where indicated and where required for weatherproof performance of metal panel assemblies. Provide types of gaskets, fillers, and sealants indicated; or, if not indicated, provide types recommended by metal panel manufacturer.

1. Seal metal panel end laps with double beads of tape or sealant the full width of panel. Seal side joints where recommended by metal panel manufacturer.

## 3.5 ERECTION - WALL AND ROOF PANELS

A. Install in accordance with manufacturer's instructions.

B. Exercise care when cutting prefinished material to ensure cuttings do not remain on finish surface.

C. Fasten cladding system to structural supports, aligned level and plumb.

D. Locate end laps over supports. End laps minimum 2 inches (50 mm). Place side laps over bearing.

E. Provide expansion joints where indicated or as required.

F. Use exposed fasteners.

G. **Install insulation and vapor retarder utilizing manufacturer's recommended method(s) for attachment. Place wire mesh under vapor retarder for support between framing members. As indicated on drawings.**

H. Install sealant and gaskets, providing weather tight installation.

I. Metal Wall Panel Installation.
   1. General: Install metal wall panels in orientation, sizes, and locations indicated on Drawings. Install panels perpendicular to girts, extending full height of building, unless otherwise indicated. Anchor metal wall panels and other components of the Work securely in place, with provisions for thermal and structural movement.
      a. Unless otherwise indicated, begin metal panel installation at corners with center of rib lined up with line of framing.
      b. Shim or otherwise plumb substrates receiving metal wall panels.
      c. When two rows of metal panels are required, lap panels 4 inches (102 mm) minimum.
      d. When building height requires two rows of metal panels at gable ends, align lap of gable panels over metal wall panels at eave height.
      e. Rigidly fasten base end of metal wall panels and allow eave end free movement for thermal expansion and contraction. Predrill panels.
      f. Flash and seal metal wall panels with weather closures at eaves and rakes, and at perimeter of all openings. Fasten with self-tapping screws.
      g. Install screw fasteners in predrilled holes.
      h. Install flashing and trim as metal wall panel work proceeds.
      i. Apply elastomeric sealant continuously between metal base channel (sill angle) and concrete, and elsewhere as indicated on Drawings; if not indicated, as necessary for waterproofing.
      j. Align bottom of metal wall panels and fasten with blind rivets, bolts, or self-drilling or self-tapping screws.

k. Provide weatherproof escutcheons for pipe and conduit penetrating exterior walls.

2. Metal Wall Panels: Install metal wall panels on exterior side of girts. Attach metal wall panels to supports with fasteners as recommended by manufacturer.

J. Metal Roof Panel Installation.

1. General: Provide metal roof panels of full length from eave to ridge unless otherwise indicated or restricted by shipping limitations.
   a. Install ridge caps as metal roof panel work proceeds.
   b. Flash and seal metal roof panels with weather closures at eaves and rakes. Fasten with self-tapping screws.
2. Lap-Seam Metal Roof Panels: Fasten metal roof panels to supports with exposed fasteners at each lapped joint, at location and spacing recommended by manufacturer.
   a. Provide metal-backed sealing washers under heads of exposed fasteners bearing on weather side of metal roof panels.
   b. Provide sealant tape at lapped joints of metal roof panels and between panels and protruding equipment, vents, and accessories.
   c. Apply a continuous ribbon of sealant tape to weather-side surface of fastenings on end laps and on side laps of nesting-type metal panels, on side laps of ribbed or fluted metal panels, and elsewhere as needed to make metal panels weatherproof to driving rains.
   d. At metal panel splices, nest panels with minimum 6-inch (152-mm) end lap, sealed with butyl-rubber sealant and fastened together by interlocking clamping plates.

## 3.6 ERECTION - GUTTERS AND DOWNSPOUTS

A. Rigidly support and secure components. Join lengths with formed seams sealed watertight. Flash and seal gutters to downspouts.

1. Gutters: Join sections with riveted-and-soldered or lapped-and-sealed joints. Attach gutters to eave with gutter hangers spaced as required for gutter size, but not more than 36 inches (914 mm) o.c. using manufacturer's standard fasteners. Provide end closures and seal watertight with sealant. Provide for thermal expansion.
2. Downspouts: Join sections with 1-1/2-inch (38-mm) telescoping joints. Provide fasteners designed to hold downspouts securely 1 inch (25 mm) away from walls; locate fasteners at top and bottom and at approximately 60 inches (1524 mm) o.c. in between.

B. Slope gutters minimum 1 inch in 40 feet (25 mm in 12 meters).

C. Install downspout to drain to catch basins as indicated in the contract documents.

E. Provide elbows at base of downspouts to direct water away from building.

## 3.7 INSTALLATION - ACCESSORY COMPONENTS IN ROOF SYSTEM

A. Continuous Roof Ventilators: Set ventilators complete with necessary hardware, anchors, dampers, weather guards, rain caps, and equipment supports. Join sections with splice plates and end-cap skirt assemblies where required to achieve indicated length. Install preformed filler strips at base to seal ventilator to metal roof panels.
   1. As indicated on drawings.

B. Pipe Flashing: Form flashing around pipe penetration and metal roof panels. Fasten and seal to panel as recommended by manufacturer.
   1. As indicated on drawings.

## 3.8 INSTALLATION - ACCESSORY COMPONENTS IN WALL SYSTEM

A. Coordinate installation of accessory components as indicated on drawings or as referenced in related specification sections.

B. Louvers: Locate and place louver units level, plumb, and at indicated alignment with adjacent work.
   1. Use concealed anchorages where possible. Provide brass or lead washers fitted to screws where required to protect metal surfaces and to make a weathertight connection.
   2. Provide perimeter reveals and openings of uniform width for sealants and joint fillers.
   3. Protect galvanized- and nonferrous-metal surfaces from corrosion or galvanic action by applying a heavy coating of corrosion-resistant paint on surfaces that will be in contact with concrete, masonry, or dissimilar metals.
   4. Install concealed gaskets, flashings, joint fillers, and insulation as louver installation progresses, where weathertight louver joints are required. Comply with Section 079200 "Joint Sealants" for sealants applied during louver installation.

## 3.9 CLEANING AND PROTECTION

A. Touchup Painting: After erection, promptly clean, prepare, and prime or reprime field connections, rust spots, and abraded surfaces of prime-painted structural framing, bearing plates, and accessories.
   1. Clean and prepare surfaces by SSPC-SP 2, "Hand Tool Cleaning," or by SSPC-SP 3, "Power Tool Cleaning."
   2. Apply a compatible primer of same type as shop primer used on adjacent surfaces.

B. Metal Panels: Remove temporary protective coverings and strippable films, if any, as metal panels are installed. On completion of metal panel installation, clean finished surfaces as recommended by metal panel manufacturer. Maintain in a clean condition during construction.

1. Replace metal panels that have been damaged or have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

**END OF SECTION**

11/14/2018 5:31:30 PM

# ST. JOHN THE BAPTIST PARISH

# WESTBANK PUBLIC SAFETY COMPLEX

5739 HIGHWAY 18
EDGARD, LA 70049

## OWNER

ST. JOHN THE BAPTIST PARISH

NATALIE ROBOTTOM, PARISH PRESIDENT

## ARCHITECT

SIZELER THOMPSON BROWN ARCHITECTS

REGIONAL DESIGN GROUP, LLC

300 LAFAYETTE STREET, SUITE 200, NEW ORLEANS, LOUISIANA 70130, (504) 523-6472

## CONSULTANTS

### MECHANICAL/ELECTRICAL ENGINEER

MOSES ENGINEERS

909 POYDRAS ST, SUITE 2150, NEW ORLEANS, LA 70112, (504) 586-1725

### CIVIL/STRUCTURAL ENGINEER

FOX-NESBIT ENGINEERING

900 CAMP STREET, SUITE 360, NEW ORLEANS, LA 70130, (225) 293-6595

1

VOLUME 1 OF 2
CONSTRUCTION DOCUMENTS

SIZELER THOMPSON BROWN ARCHITECTS
REGIONAL DESIGN GROUP, LLC
300 LAFAYETTE STREET, SUITE 200
NEW ORLEANS, LOUISIANA 70130
(504) 523-6472 FAX (504) 529-1181

Revisions

| No. | Description | Date |
|---|---|---|
| 1 | ADDENDA #2 | 11-15-2018 |

WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

TITLE SHEET

seal: THOMAS MOORE BROWN REG. No. 3407 STATE OF LOUISIANA REGISTERED ARCHITECT

project number: 21238.00

date: OCTOBER 15, 2018

phase: BID DOCUMENTS

drawing number: G101

11/15/2018 3:01:46 PM

# SYMBOLS

X / AXXX — DRAWING TITLE
DRAWING SCALE

DRAWING NUMBER
X / AXXX — DRAWING TITLE
DRAWING SCALE
SHEET NUMBER

ROOM NAME / ROOM # / AREA IN SF — ROOM TAG

ROOM NAME / 101 / WALL FLOOR BASE — FINISH TAG
SEE FINISH LEGEND FOR VARIATIONS

NAME / XXX — EQUIPMENT TAG
REFERNCE EQUIPMENT SCHEDULE

LEVEL X / XX'-XX" — ELEVATION TAG

X — WINDOW TAG
REFERENCE WINDOW SCHEDULE

XXX — DOOR TAG
REFERENCE DOOR SCHEDULE

XX — KEYNOTE TAG
(SHEET SPECIFIC)

1t — PARTITION TYPE

MATERIAL — XXX-1
HEIGHT — XX'-XX" — CEILING TAG

AREA OF DETAIL TO BE ENLARGED
DETAIL NUMBER
X / AXXX — SIM
SHEET NUMBER
— DETAIL TAG

# / AXXX — EXTERIOR ELEVATION TAG

X / AXXX — INTERIOR ELEVATION TAG

DETAIL NUMBER
SHEET NUMBER
— SECTION TAG

X — COLUMN GRID IDENTIFIER

REVISION NUMBER — 1
AREA OF REVISION
— REVISION CLOUD & TAG

X / AXXX
REFERENCE VIEW
— MATCH LINE

# PROJECT STATISTICS

## REGULATORY AGENCIES

OFFICE OF STATE FIRE MARSHAL
8181 INDEPENDENCE BLVD.
BATON ROUGE, LA 70806
225.925.4911
NFPA LIFE SAFETY CODE - 2015 EDITION

SAINT JOHN THE BAPTIST PARISH CODE ENFORCEMENT
DEPARTMENT OF PERMITS AND INSPECTIONS
INTERNATIONAL BUILDING CODE - 2015 EDITION

## LOCATION

5739 HIGHWAY 18
EDGARD, LA 70049

1

## ZONING

SAINT JOHN THE BAPTIST PARISH COMPREHENSIVE ZONING ORDINANCE
DIVISION 10 - COMMERCIAL DISTRICT ONE (C-1)

## OCCUPANCY CLASSIFICATION

BUSINESS (B) - IBC 2015 & NFPA 101 2015 EDITION
RESIDENTIAL (R-2) - IBC 2015 & NFPA 101 2015 EDITION
STORAGE (S-2) - IBC 2015 & NFPA 101 2015 EDITION

## CONSTRUCTION CLASSIFICATION

NFPA 2015 TYPE 000 - FULLY SPRINKLERED
IBC 2015 TYPE VB - FULLY SPRINKLERED

## GROSS AREA

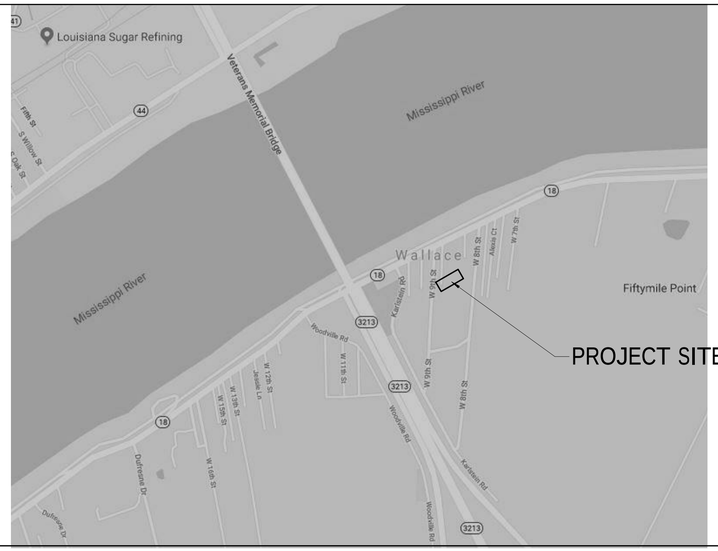
6003 SF

1

## STORIES

ONE

# VICINITY MAP




# SHEET INDEX

| SHEET NUMBER | SHEET NAME | REVISIONS DATE | REVISION NO. |
|---|---|---|---|
| 01 GENERAL INFORMATION | | | |
| G101 | TITLE SHEET | 11-15-2018 | 1 |
| G102 | CODE REVIEW, INDEX OF DRAWINGS VOLUME 1 OF 2 | 11-15-2018 | 1 |
| G201 | FIRE/LIFE SAFETY PLANS | 11-15-2018 | 1 |
| 01.5 REFERENCE ONLY | | | |
| R001 | REFENCE DRAWING - CONTENT BY OTHERS | 11-15-2018 | 1 |
| 03 CIVIL | | | |
| C100 | DEMOLITION PLAN | | |
| C200 | EROSION CONTROL PLAN | | |
| C300 | SITE PLAN | | |
| C301 | GEOMETRIC LAYOUT | | |
| C400 | PAVEMENT & JOINT PLAN | | |
| C500 | GRADING PLAN | | |
| C501 | GRADING PLAN & SECTIONS | | |
| C502 | DRAINAGE PLAN | | |
| C600 | UTILITY PLAN | | |
| C700 | DETAILS | | |
| C701 | DETAILS | | |
| 04 ARCHITECTURAL | | | |
| A101 | SITE PLAN | 11-15-2018 | 1 |
| A110 | SITE ENLARGED PLANS AND DETAILS | | |
| A201 | BUILDING FLOOR PLAN | 11-15-2018 | 1 |
| A202 | DIMENSION PLAN | 11-15-2018 | 1 |
| A203 | SLAB PLAN | 11-15-2018 | 1 |
| A221 | ENLARGED PLANS | | |
| A222 | ENLARGED PLANS | | |
| A223 | ENLARGED PLANS | | |
| A251 | PLAN DETAILS | | |
| A252 | PLAN DETAILS | | |
| A301 | EXTERIOR ELEVATIONS | | |
| A302 | EXTERIOR ELEVATIONS | | |
| A321 | BUIDLING SECTIONS | | |
| A322 | BUILDING SECTIONS | | |
| A351 | WALL SECTIONS | | |
| A352 | WALL SECTIONS | | |
| A353 | WALL SECTIONS | | |
| A354 | WALL SECTIONS | | |
| A361 | DETAILS | | |
| A401 | ROOF PLAN | | |
| A421 | ROOF DETAILS | | |
| A422 | ROOF DETAILS | | |
| A601 | REFLECTED CEILING PLAN | | |
| A621 | CEILING DETAILS | | |
| A701 | 1ST FLOOR FINISH PLAN | 11-15-2018 | 1 |
| A702 | SIGNAGE PLAN | 11-15-2018 | 1 |
| A801 | INTERIOR ELEVATIONS | 11-15-2018 | 1 |
| A821 | MILLWORK DETAILS | 11-15-2018 | 1 |
| A901 | PARTITION TYPES | | |
| A902 | PARTITION TYPES | | |
| A903 | SCHEDULES (DOORS AND WINDOWS) | 11-15-2018 | 1 |
| A904 | DOOR DETAILS | | |
| A905 | CURTAIN WALL DETAILS | | |
| A906 | WINDOW DETAILS | | |
| A907 | WINDOW DETAILS | 11-15-2018 | 1 |

1

# GENERAL NOTES

1. ALL MATERIALS AND WORK, INCIDENTAL TO THE CONSTRUCTION OF THIS PROJECT, SHALL CONFORM TO ALL GOVERNING CODES, AND REGULATIONS OF AGENCIES IN AUTHORITY.
2. CONTRACTOR SHALL PROVIDE ALL PUBLIC PROTECTIONS NECESSARY AS REQUIRED BY LAW.
3. THE DRAWINGS, SPECIFICATIONS AND ANY SUBSEQUENTLY ISSUED ADDENDA, AMENDMENTS OR SUCH CHANGE ORDERS APPROVED BY THE OWNER AND THE CONTRACTOR ARE PART OF THESE CONTRACT DOCUMENTS.
4. DO NOT SCALE DRAWINGS. CONSULT WITH THE ARCHITECT REGARDING ANY ITEMS IN THE CONTRACT DOCUMENTS THAT REQUIRE CLARIFICATION.
5. VERIFY LOCATION OF ALL EQUIPMENT WITH THE ARCHITECT, PRIOR TO INSTALLATION.
6. TRASH SHALL BE REMOVED FROM THE SITE NOT LESS THAN TWICE WEEKLY.
7. THE GENERAL CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK AND REPORT ANY AND ALL DISCREPANCIES TO THE ARCHITECT.
8. CONTRACTOR VEHICLES AND EQUIPMENT NECESSARY FOR CONSTRUCTION MAY BE PARKED ON THE SITE. OTHER VEHICLES PARKED ON THE SITE REQUIRE THE OWNER'S PERMISSION.
9. WORK INDICATED AS 'NOT IN CONTRACT', 'NIC', OR 'BY OTHERS', SHALL BE PERFORMED BY OWNER'S SEPARATE CONTRACTORS. THE GENERAL CONTRACTOR SHALL COOPERATE TO THE FULLEST EXTENT WITH ALL OTHER CONTRACTORS AND ASSIST IN COORDINATING THE WORK BY SEPARATE CONTRACTORS WITH THE WORK OF THIS CONTRACT.
10. NAMING A CERTAIN BRAND, MAKE OR MANUFACTURER IS TO DESIGNATE THE BASIS OF DESIGN, TYPE, CHARACTER AND QUALITY STANDARD OF THE PRODUCT DESIRED. SUBSTITUTION REQUESTS MUST BE SUBMITTED PRIOR TO BIDDING.
11. A SURVEY IS INCLUDED HEREIN FOR REFERENCE ONLY. SIZELER THOMPSON BROWN ARCHITECTS ASSUMES NO LIABILITY FOR ERRORS OR OMISSIONS IN THIS DRAWING.

1


SIZELER THOMPSON BROWN ARCHITECTS
REGIONAL DESIGN GROUP, LLC
300 LAFAYETTE STREET, SUITE 200
NEW ORLEANS, LOUISIANA 70130
(504) 523-6472 FAX (504) 529-1181


Revisions

| No. | Description | Date |
|---|---|---|
| 1 | ADDENDA #2 | 11-15-2018 |

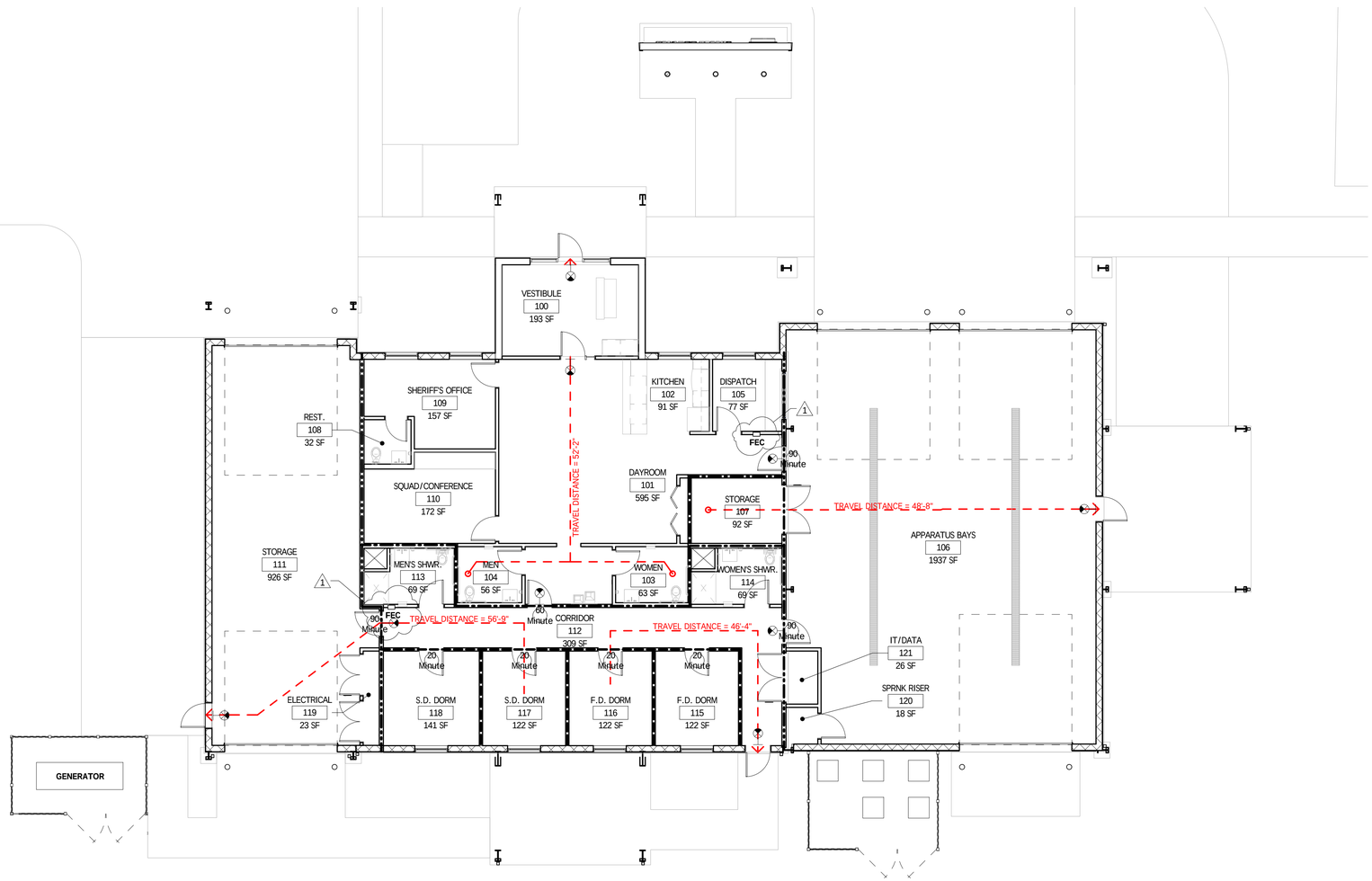
ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

CODE REVIEW, INDEX OF DRAWINGS VOLUME 1 OF 2

seal: THOMAS MOORE BROWN REG. No. 3401 STATE OF LOUISIANA REGISTERED ARCHITECT

project number: 21238.00
date: OCTOBER 15, 2018
phase: BID DOCUMENTS
drawing number: G102

11/14/2018 5:31:38 PM




## 1ST FLOOR LIFE SAFETY PLAN

1/8" = 1'-0"

# LIFE SAFETY PLAN LEGEND

SEE G102 FOR CODE SUMMARY AND ADDITIONAL INFORMATION

- NEW 1/2 HOUR RATED WALL. SEE PARTITION SCHEDULE.
- NEW 1 HOUR RATED WALL. SEE PARTITION SCHEDULE.
- NEW 2 HOUR RATED WALL. SEE PARTITION SCHEDULE.
- TRAVEL DISTANCE OF EGRESS PATH
- 60 — DOOR RATING IN MINUTES (NR WHERE NOT RATED)
- FEC — RECESSED FIRE EXTINGUISHER CABINET
- F — WALL MOUNTED FIRE ALARM PULL
- EXIT SIGN - DOUBLE FACED - DIRECTIONAL
- EXIT SIGN - SINGLE FACED

GROSS AREA OCCUPANT LOAD

| Name | Area | Load Factor | Occupant Load |
|---|---|---|---|
| B | 3295 SF | 100 | 32.945114 |
| R-2 | 572 SF | 0 | |
| S-2 (PARKING) | 2087 SF | 200 | 10.432824 |
| | 5953 SF | | 43.377938 |

PLUMBING CALCULATIONS:

| | TOILETS M | TOILETS W | LAVATORIES M | LAVATORIES W |
|---|---|---|---|---|
| • IBC - 44 OCCUPANTS (B) | 1 | 1 | 1 | 1 |
| PROVIDED: | 3 | 2 | 3 | 2 |


SIZELER THOMPSON BROWN ARCHITECTS
REGIONAL DESIGN GROUP, LLC
300 LAFAYETTE STREET, SUITE 200
NEW ORLEANS, LOUISIANA 70130
(504) 523-6472 FAX (504) 529-1181


Revisions

| No. | Description | Date |
|---|---|---|
| 1 | ADDENDA #2 | 11-15-2018 |

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

FIRE/LIFE SAFETY PLANS

seal: THOMAS MOORE BROWN REG. No. 3401 STATE OF LOUISIANA REGISTERED ARCHITECT

project number: 21238.00

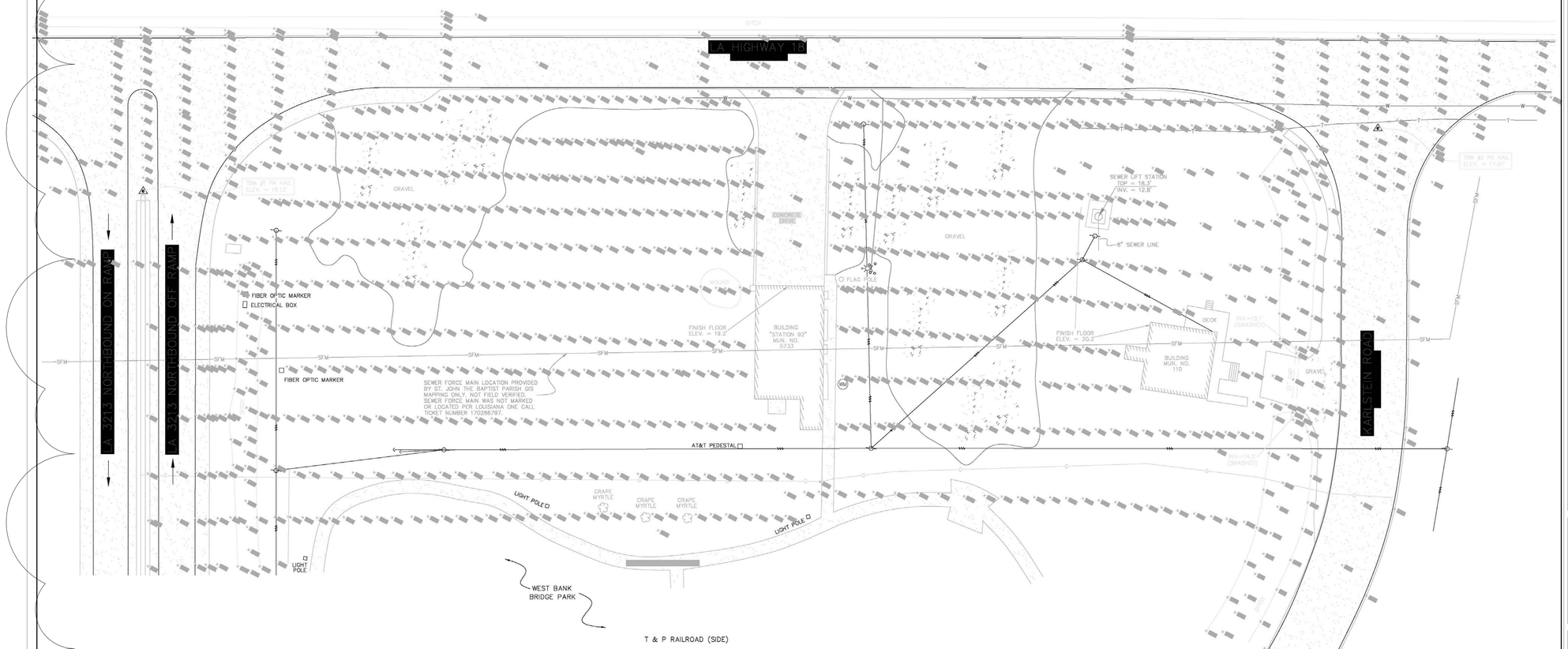
date: OCTOBER 15, 2018

phase: BID DOCUMENTS

drawing number: G201

# TOPGRAPHIC SURVEY

FIRE STATION 92
WEST OF THE MISSISSIPPI RIVER
SITUATED IN SECTION 21, T-12-S, R-18-E
SOUTHEASTERN LAND DISTRICT
WALLACE, ST. JOHN THE BAPTIST PARISH, LOUISIANA




LOUISIANA ONE CALL: TICKET NUMBER: 170286797
ENTERGY LOUISIANA, LLC
AT&T DISTRIBUTION
ATMOS ENERGY
COMCAST CABLE
RESERVE TELEPHONE
ST. JOHN BAPTIST PARISH

THE LOCATIONS OF UNDERGROUND AND OTHER NONVISIBLE UTILITIES SHOWN HEREON HAVE BEEN DETERMINED FROM DATA EITHER FURNISHED BY THE AGENCIES CONTROLLING SUCH DATA AND/OR EXTRACTED FROM RECORDS MADE AVAILABLE TO US BY THE AGENCIES CONTROLLING SUCH RECORDS. WHERE FOUND, THE SURFACE FEATURES OF LOCATIONS ARE SHOWN. THE ACTUAL NONVISIBLE LOCATIONS MAY VARY FROM THOSE SHOWN HEREON. EACH AGENCY SHOULD BE CONTACTED RELATIVE TO THE PRECISE LOCATION OF ITS UNDERGROUND INSTALLATION PRIOR TO ANY RELIANCE UPON THE ACCURACY OF SUCH LOCATIONS SHOWN HEREON, INCLUDING PRIOR TO EXCAVATION AND DIGGING.

DOTTIE 1-800-272-3020

CERTIFIED TO: CAIN DUFRENE
CHIEF OF OPERATIONS
ST. JOHN THE BAPTIST PARISH
OFFICE OF FIRE SERVICES
1801 WEST AIRLINE HIGHWAY
LAPLACE, LA 70068

FLOOD NOTE: THE SURVEYED PARCEL IS IN ZONE "X" PER FEDERAL INSURANCE RATE MAP NUMBER 22095C-0200D DATED 11/4/2010.

SURVEYOR'S NOTES:
A. THIS PLAT IS CORRECT AND IN ACCORDANCE WITH A PHYSICAL SURVEY MADE ON THE GROUND UNDER THE DIRECTION OF THE UNDERSIGNED AND DOES NOT COMPLY WITH THE REQUIREMENTS OF LOUISIANA'S "STANDARDS OF PRACTICE FOR BOUNDARY SURVEYS" FOR A CLASS B SURVEY. THIS IS NOT A BOUNDARY SURVEY.
B. NO TITLE OPINION WAS PROVIDED TO THIS FIRM, THEREFORE NO CERTIFICATION IS GIVEN TO THE EXISTENCE OF OTHER SERVITUDES OR EASEMENTS WHICH MAY EXIST OTHER THAN THOSE SHOWN.
C. MINIMUM SETBACK LINES AND SERVITUDES SHOWN ARE BASED ON THE REFERENCED SURVEY PLAT. THE APPROPRIATE PARISH AUTHORITY OR NEIGHBORHOOD REGULATORY BOARD SHOULD BE CONSULTED FOR FINAL DETERMINATION.
D. ELEVATIONS HEREON ARE ESTABLISHED BY THE LOUISIANA STATE PLANE COORDINATE SYSTEM, LOUISIANA SOUTH ZONE USING LIECA SMARTNET SOLUTION 6/20/2017 NAVD88 GEOID12A.

20 10 0 20 40 60
SCALE IN FEET
1"=20'

LEGEND:
PK NAIL
FIRE HYDRANT
POWER POLE
POWER LINE
SEWER MANHOLE
TELEPHONE LINE
WATER LINE
GAS LINE
WATER METER
FENCE
ELEVATION
TREE
SEWER FORCE MAIN

"NOT A BOUNDARY SURVEY"

| NO. | DATE | DESCRIPTION | BY |
|---|---|---|---|
| | | | |
| | | | |
| | | | |

REVISIONS

| | |
|---|---|
| DRAWN BY: KPB | SHEET NO. 1 OF 1 |
| DATE: JUNE 30, 2017 | DRAWING NO. L1560_WO2920 |

RIVERLANDS SURVEYING COMPANY
505 HEMLOCK STREET
LAPLACE, LA. 70068
1-800-248-6989
985-652-6356

STEPHEN P. FLYNN
P.L.S. LA. ST. REG. NO. 4668

1

SIZELER THOMPSON BROWN ARCHITECTS
REGIONAL DESIGN GROUP, LLC
300 LAFAYETTE STREET, SUITE 200
NEW ORLEANS, LOUISIANA 70130
(504) 523-6472 FAX (504) 529-1181

Revisions

| No. | Description | Date |
|---|---|---|
| | | |
| 1 | ADDENDA #2 | 11-15-2018 |
| | | |
| | | |
| | | |
| | | |
| | | |

WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

REFENCE DRAWING - CONTENT BY OTHERS

seal

project number 21238.00

date OCTOBER 15, 2018

phase BID DOCUMENTS

drawing number R001

11/14/2018 5:30:09 PM

SITE PLAN
1" = 20'-0"

## PARKING COUNT

**PARKING REQUIRED BY SAINT JOHN THE BAPTIST ZONING, SECTION 5 DIVISION 2 OFF-STREET PARKING**

A. BUSINESS AND PROFESSIONAL OFFICE - 5,933 GROSS SQ FT/303 SQ FT = **20 PARKING SPACES***

**TOTAL PARKING PER ZONING REQUIREMENTS = 20 SPACES**

**ACTUAL PARKING COUNT = 17 SPACES**

## SITE PLAN LEGEND

**HEAVY EQUIPMENT PAVING**

**LIGHT DUTY PAVING**

**STREET LIGHT STANDARD**

**ORNAMENTAL FENCE, RE: FENCE DETAILS**

**PROPERTY LINE**

**SETBACK LINE**

**CONSTRUCTION FENCE W/ BANNER MESH COVER**

**FIRE HYDRANT**

**DRAIN INLETS**


SIZELER THOMPSON BROWN ARCHITECTS
REGIONAL DESIGN GROUP, LLC
300 LAFAYETTE STREET, SUITE 200
NEW ORLEANS, LOUISIANA 70130
(504) 523-6472 FAX (504) 529-1181


Revisions

| No. | Description | Date |
|---|---|---|
| 1 | ADDENDA #2 | 11-15-2018 |

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

SITE PLAN

seal: THOMAS MOORE BROWN REG. No. 3401 STATE OF LOUISIANA REGISTERED ARCHITECT

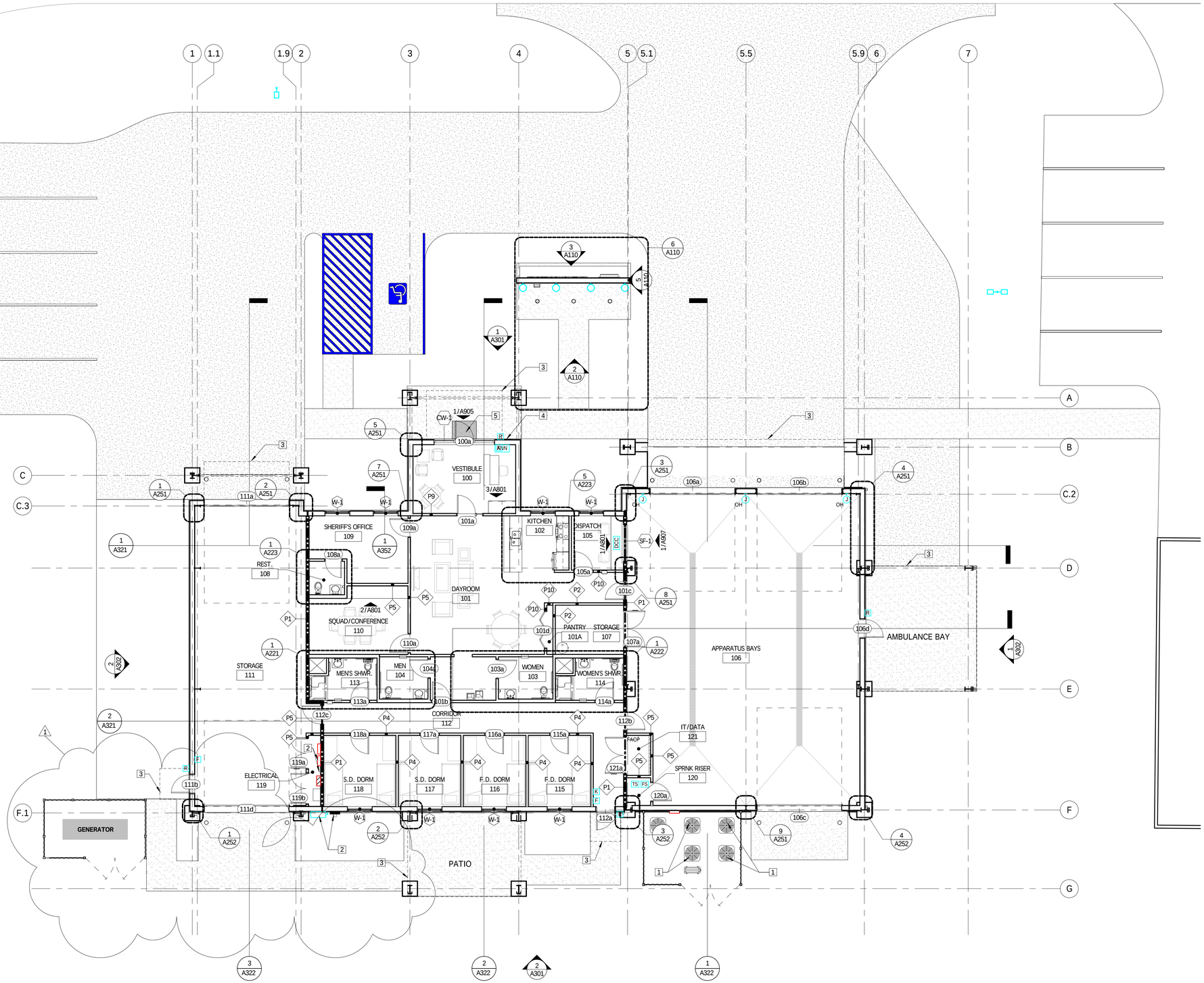
project number: 21238.00

date: OCTOBER 15, 2018

phase: BID DOCUMENTS

drawing number: A101

11/14/2018 5:39:45 PM



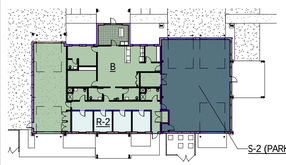

1 A201 1ST FLOOR PLAN
1/8" = 1'-0"

## GENERAL FLOOR PLAN NOTES

A. FOR PARTITION TYPES AND OPENING SCHEDULES, SEE SHEET A901, A902 & A903.
B. ALL DIMENSIONS AT WALLS & PARTITIONS ARE TAKEN FROM FACE OF STUD, UNLESS OTHERWISE NOTED. ALL DIMENSIONS AT COLUMNS ARE TAKEN FROM THE CENTERLINE OF THE COLUMN UNLESS OTHERWISE NOTED. ALL DIMENSIONS TO MASONRY ARE TAKEN FROM FACE OF MASONRY UNIT UNLESS OTHERWISE NOTED.
C. ALL DIMENSIONS INDICATED AS "CLEAR", "HOLD" OR "MINIMUM (MIN.)"ARE TAKEN FROM THE FINISH SURFACE. VERIFY DIMENSIONS DURING LAYOUT AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING.
D. "ALIGN" SHALL MEAN TO ACCURATELY LOCATE FINISH FACES IN THE SAME PLANE.
E. LOCATE ALL DOORS 4" FROM BACK OF FRAME (HINGE SIDE) TO END OF PARTITION UNLESS OTHERWISE NOTED.
F. MAINTAIN A MINIMUM OF 18" AT PULL SIDE OF ALL DOORS.
G. PROVIDE SOLID BLOCKING BETWEEN STUDS AT ALL LOCATIONS TO RECEIVE MILLWORK, GRAB BARS OR OTHER ITEMS REQUIRING ATTACHMENT TO THE WALL OR PARTITION.
H. SEE INTERIOR ELEVATIONS FOR TOILET ACCESSORY LOCATIONS.
I. ALL WORK NOTED "BY OTHERS" OR " N.I.C." SHALL BE PROVIDED BY OWNER OR UNDER SEPARATE CONTRACT. INCLUDE REQUIREMENTS FOR THIS WORK IN CONSTRUCTION SCHEDULE AND COORDINATE AS REQ. TO ASSURE ORDERLY SEQUENCE OF INSTALLATION.
J. SEE SITE PLAN, LANDSCAPE AND CIVIL DRAWINGS FOR DETAILED SITE INFORMATION (ALL WORK OUTSIDE OF BUILDING LINE).
K. CLEARANCES AND TOLERANCES OF ALL WALLS ADJACENT TO OR ABOUNDING EQUIPMENT SHALL BE VERIFIED BY EQUIPMENT VENDORS PRIOR TO LAYOUT.

## FLOOR PLAN KEYNOTES

| | |
|---|---|
| 1 | HVAC EQUIPMENT REFERENCE MECHANICAL |
| 2 | ELECTRICAL GEAR REFERENCE ELECTRICAL |
| 3 | OVER HEAD CANOPY |
| 4 | DEDICATION PLAQUE |
| 5 | 4'x3' RECESSED WALK-OFF MAT |




AREA SCHEDULE

| Name | Area |
|---|---|
| B | 3295 SF |
| R-2 | 572 SF |
| S-2 (PARKING) | 2087 SF |
| | 5953 SF |


SIZELER THOMPSON BROWN ARCHITECTS
REGIONAL DESIGN GROUP, LLC
300 LAFAYETTE STREET, SUITE 200
NEW ORLEANS, LOUISIANA 70130
(504) 523-6472 FAX (504) 529-1181


Revisions

| No. | Description | Date |
|---|---|---|
| 1 | ADDENDA #2 | 11-15-2018 |

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

BUILDING FLOOR PLAN

seal: THOMAS MOORE BROWN REG. No. 34071 STATE OF LOUISIANA REGISTERED ARCHITECT

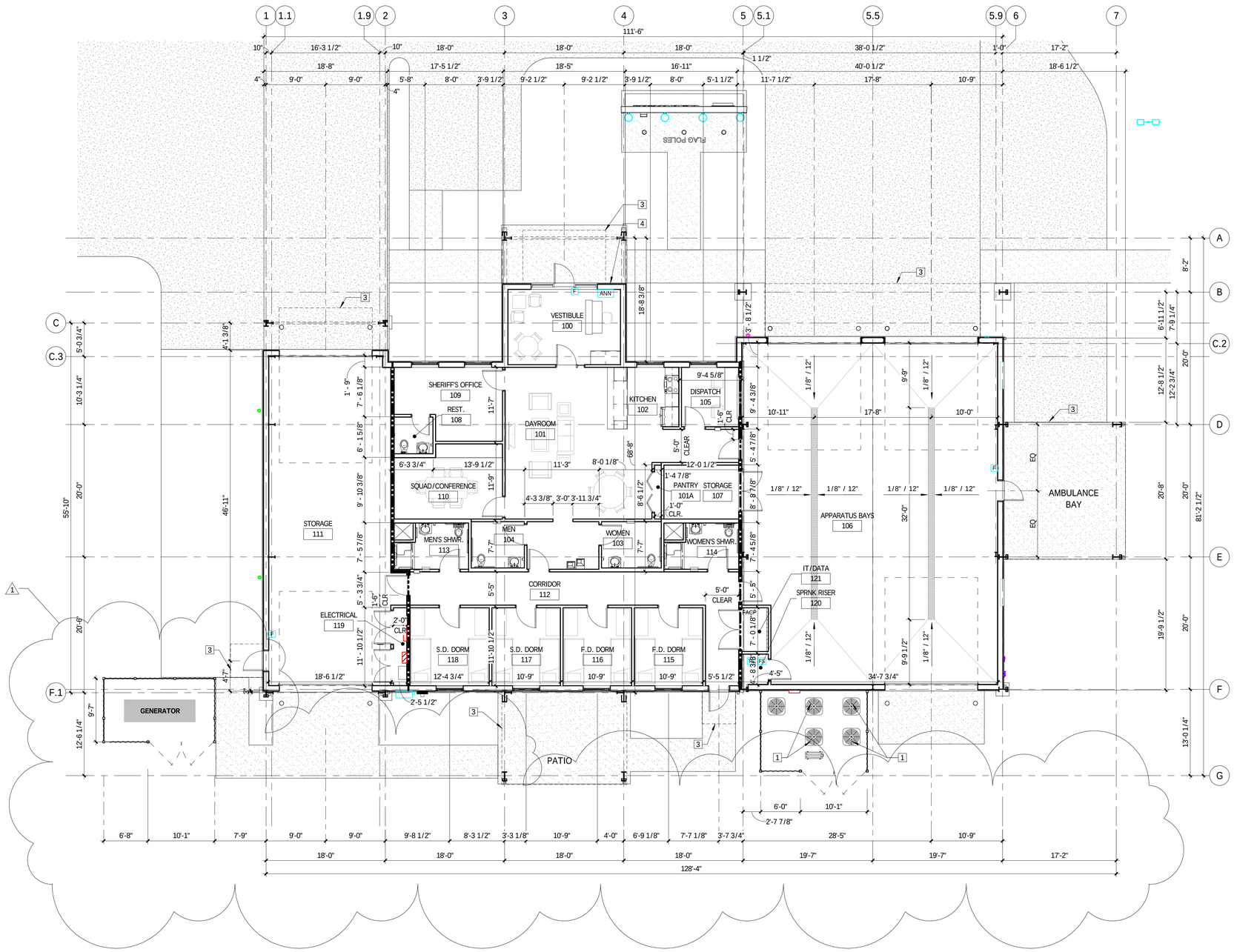
project number: 21238.00

date: OCTOBER 15, 2018

phase: BID DOCUMENTS

drawing number: A201

11/14/2018 5:30:57 PM




1 1ST FLOOR DIMENSION PLAN
A202 1/8" = 1'-0"

## GENERAL FLOOR PLAN NOTES

A. FOR PARTITION TYPES AND OPENING SCHEDULES, SEE SHEET A901, A902 & A903.
B. ALL DIMENSIONS AT WALLS & PARTITIONS ARE TAKEN FROM FACE OF STUD, UNLESS OTHERWISE NOTED. ALL DIMENSIONS AT COLUMNS ARE TAKEN FROM THE CENTERLINE OF THE COLUMN UNLESS OTHERWISE NOTED. ALL DIMENSIONS TO MASONRY ARE TAKEN FROM FACE OF MASONRY UNIT UNLESS OTHERWISE NOTED.
C. ALL DIMENSIONS INDICATED AS "CLEAR", "HOLD" OR "MINIMUM (MIN.)"ARE TAKEN FROM THE FINISH SURFACE. VERIFY DIMENSIONS DURING LAYOUT AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING.
D. "ALIGN" SHALL MEAN TO ACCURATELY LOCATE FINISH FACES IN THE SAME PLANE.
E. LOCATE ALL DOORS 4" FROM BACK OF FRAME (HINGE SIDE) TO END OF PARTITION UNLESS OTHERWISE NOTED.
F. MAINTAIN A MINIMUM OF 18" AT PULL SIDE OF ALL DOORS.
G. PROVIDE SOLID BLOCKING BETWEEN STUDS AT ALL LOCATIONS TO RECEIVE MILLWORK, GRAB BARS OR OTHER ITEMS REQUIRING ATTACHMENT TO THE WALL OR PARTITION.
H. SEE INTERIOR ELEVATIONS FOR TOILET ACCESSORY LOCATIONS.
I. ALL WORK NOTED "BY OTHERS" OR " N.I.C." SHALL BE PROVIDED BY OWNER OR UNDER SEPARATE CONTRACT. INCLUDE REQUIREMENTS FOR THIS WORK IN CONSTRUCTION SCHEDULE AND COORDINATE AS REQ. TO ASSURE ORDERLY SEQUENCE OF INSTALLATION.
J. SEE SITE PLAN, LANDSCAPE AND CIVIL DRAWINGS FOR DETAILED SITE INFORMATION (ALL WORK OUTSIDE OF BUILDING LINE).
K. CLEARANCES AND TOLERANCES OF ALL WALLS ADJACENT TO OR ABOUNDING EQUIPMENT SHALL BE VERIFIED BY EQUIPMENT VENDORS PRIOR TO LAYOUT.

## FLOOR PLAN KEYNOTES

| | |
|---|---|
| 1 | HVAC EQUIPMENT REFERENCE MECHANICAL |
| 2 | ELECTRICAL GEAR REFERENCE ELECTRICAL |
| 3 | OVER HEAD CANOPY |
| 4 | DEDICATION PLAQUE |
| 5 | 4x3' RECESSED WALK-OFF MAT |

AREA SCHEDULE

| Name | Area |
|---|---|
| B | 3295 SF |
| R-2 | 572 SF |
| S-2 (PARKING) | 2087 SF |
| | 5953 SF |


SIZELER THOMPSON BROWN ARCHITECTS
REGIONAL DESIGN GROUP, LLC
300 LAFAYETTE STREET, SUITE 200
NEW ORLEANS, LOUISIANA 70130
(504) 523-6472 FAX (504) 529-1181


Revisions

| No. | Description | Date |
|---|---|---|
| 1 | ADDENDA #2 | 11-15-2018 |

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

DIMENSION PLAN

seal: THOMAS MOORE BROWN REG. No. 34071 STATE OF LOUISIANA REGISTERED ARCHITECT

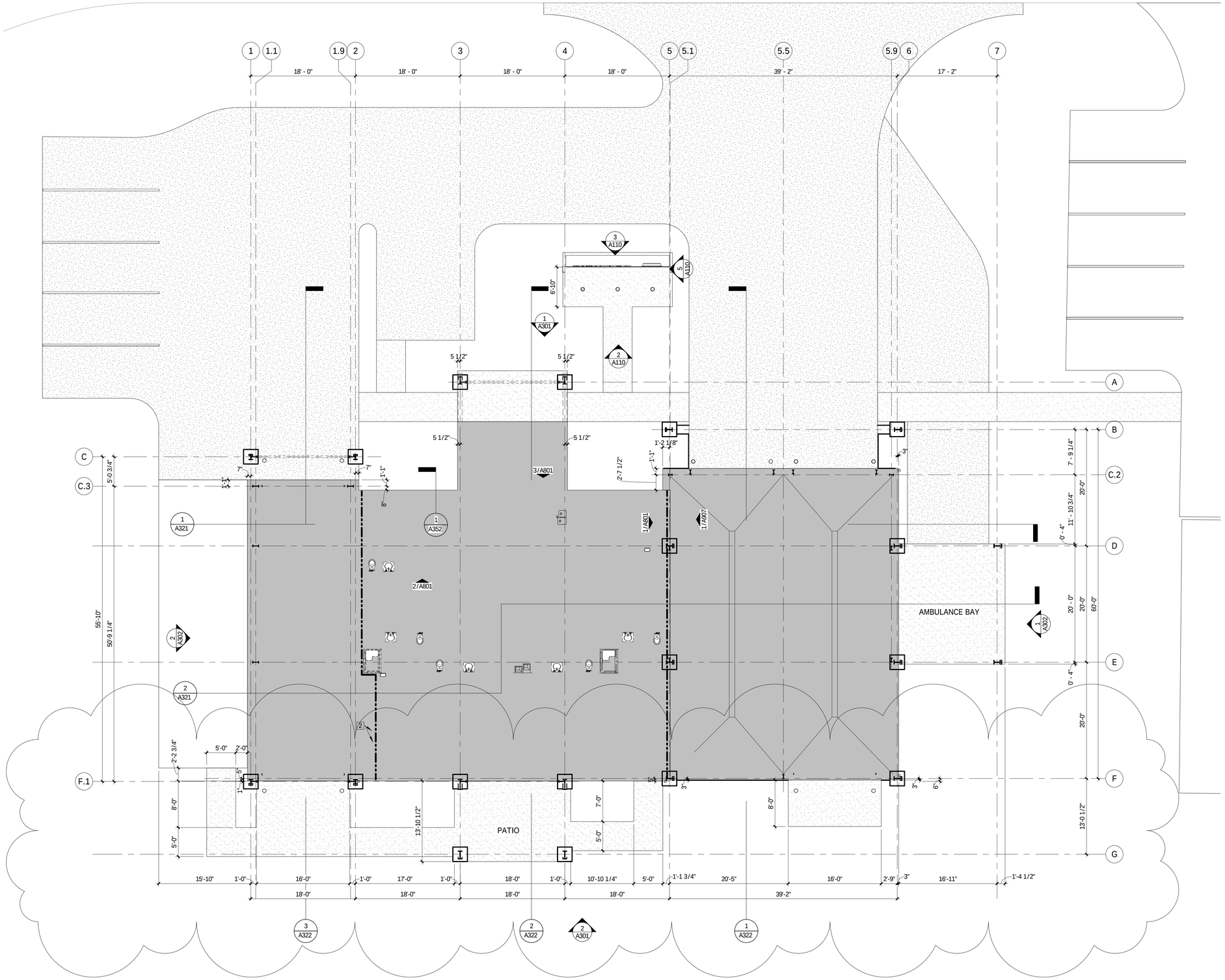
project number: 21238.00

date: OCTOBER 15, 2018

phase: BID DOCUMENTS

drawing number: A202

11/14/2018 5:31:06 PM




1 1ST FLOOR SLAB PLAN
A203 1/8" = 1'-0"


SIZELER THOMPSON BROWN ARCHITECTS
REGIONAL DESIGN GROUP, LLC
300 LAFAYETTE STREET, SUITE 200
NEW ORLEANS, LOUISIANA 70130
(504) 523-6472 FAX (504) 529-1181


Revisions

| No. | Description | Date |
|---|---|---|
| 1 | ADDENDA #2 | 11-15-2018 |

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

SLAB PLAN

seal: THOMAS MOORE BROWN REG. No. 3401 STATE OF LOUISIANA REGISTERED ARCHITECT

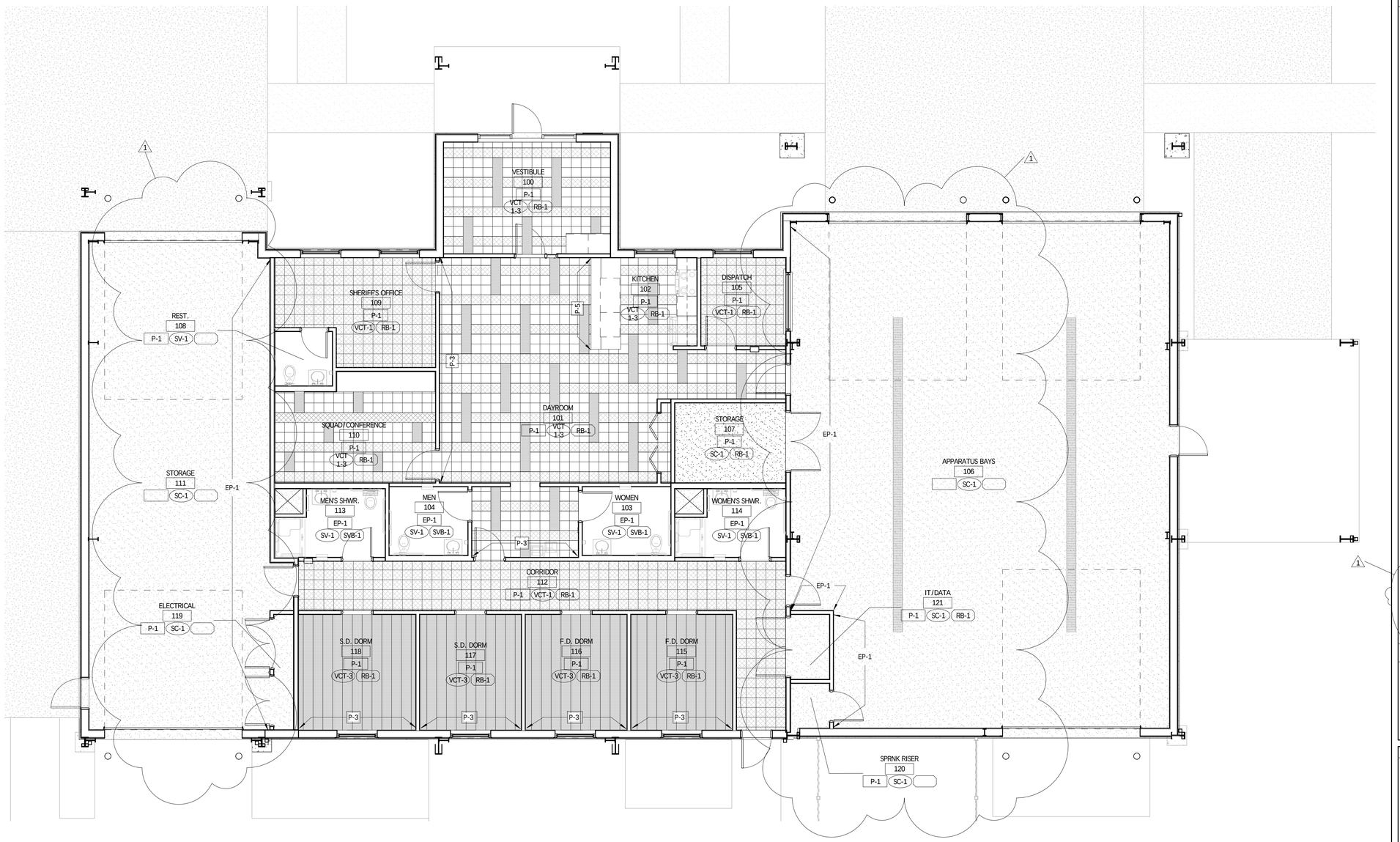
project number: 21238.00

date: OCTOBER 15, 2018

phase: BID DOCUMENTS

drawing number: A203

11/14/2018 5:31:13 PM




1 A701 1ST FLOOR FINISH PLAN
3/16" = 1'-0"

## GENERAL FINISH NOTES

A. SEE BUILDING SPECIFICATIONS FOR FURTHER INFORMATION REGARDING FINISH MANUFACTURER, COLOR, STYLE, PATTERN, SIZE, PERFORMANCE AND INSTALLATION.
B. REFER TO BALANCE OF PLANS AND SPECIFICATIONS FOR FINISH MATERIALS AND REQUIREMENTS NOT INDICATED HEREIN (PARTITION TYPES, CEILINGS, ETC).
C. ALL GYPSUM BOARD CEILINGS AND FURR DOWNS, TO BE PAINTED **P-4** UNLESS OTHERWISE NOTED, SEE REFLECTED CEILING PLANS.
D. PROVIDE TRANSITION STRIPS AT ALL CHANGES IN FLOORING MATERIAL. ALL RUBBER TRANSITION STRIPS TO HAVE THE LOWEST PROFILE POSSIBLE AND TO BE AS LISTED IN THE FINISH SCHEDULE.
E. IF FINISHES ARE NOT INDICATED WITHIN ANY AREA, PROVIDE FINISHES TO MATCH THOSE IN NEAREST ADJACENT AREA.
F. WHENEVER FLOORING TRANSITION OCCURS AT A DOOR OPENING, LOCATE TRANSITION STRIP AT CENTERLINE OF DOOR.
G. SEE ELEVATIONS FOR ADDITIONAL INFORMATION ON EXTENTS AND LIMITS OF WALL FINISHES.
H. WHERE A SURFACE IS TO BE PAINTED, PROVIDE THE FOLLOWING FINISHES, UNLESS OTHERWISE NOTED:
   a. HOLLOW METAL DOORS AND FRAMES: SEMI-GLOSS
   b. GYPSUM BOARD WALLS: EGGSHELL
   c. GYPSUM BOARD CEILINGS AND SOFFITS: FLAT
   d. ALL OTHER PAINTED SURFACES: EGGSHELL
I. PROVIDE A LEVEL FIVE (5) GYPSUM BOARD FINISH AT THE FOLLOWING LOCATIONS:
   a. WHERE WALL IS SCHEDULED TO RECEIVE EPOXY PAINT (EP-1)
   b. WHERE WALL IS SCHEDULED TO RECEIVE WALL COVERING (WC-1)
   c. WHERE WALL IS SCHEDULE TO RECEIVE WALL PROTECTION (WP1)
J. PROVIDE 6" BASE AT ALL BATHROOMS, TYP.
K. RESILIENT SHEET AND TILE FLOORING
   a. PROVIDE VAPOR BARRIER AT RESILIENT SHEET AND TILE FLOORING WHEN APPLICABLE, SEE SPECIFICATIONS.
   b. PROVIDE A TWO PART EPOXY ADHESIVE AT RESILIENT SHEET FLOORING, SEE SPECIFICATIONS.
   c. PROVIDE DETAILED SHOP DRAWINGS OF FLOOR PATTERNS PRIOR TO CONSTRUCTION.
   d. ALL SEAMS AT RESILIENT SHEET FLOORING TO BE HEAT WELDED. SEE FINISH LEGEND FOR WELD ROD COLOR, TYP.
L. INTERIOR PAINTING
   a. PAINT VERTICAL AND HORIZONTAL SURFACES OF GYPSUM BOARD BULKHEADS ABOVE UPPER CABINETS TO MATCH WALL PAINT FINISH, UNLESS OTHERWISE NOTED.
   b. WALLS IN ALL SPACES WITH EXPOSED CEILINGS SHALL BE PAINTED UP TO THE UNDERSIDE OF FLOOR / ROOF SLAB ABOVE.
   c. ALL GYPSUM SOFFITS AND BULKHEADS SHALL RECEIVE LATEX FLAT PAINT, EXCEPT AT UPPER CABINETS WHERE SOFFIT SHALL RECEIVE SATIN PAINT.
   d. NO EPOXY PAINT SHALL BE USED ON AN EXTERIOR WALL. IN SPACES WITH AN EXTERIOR WALL THAT HAS EPOXY PAINT SPECIFIED; PAINT ALL INTERIOR WALLS EPOXY AND THE EXTERIOR LATEX SEMI-GLOSS.
M. WINDOWS, DOORS, DOOR FRAMES, ACCESS DOORS, ETC.
   a. PAINT ALL METAL ACCESS DOORS, ELECTRICAL PANELS, RECESSED CABINET FACES, HVAC REGISTERS, GRILLES, ETC. TO MATCH ADJACENT WALL AND/OR CEILING COLOR, U.N.O.
   b. INTERIOR HOLLOW METAL DOORS, DOOR FRAMES, WINDOW FRAMES AND VIEW WINDOW FRAMES SHALL BE PAINTED P-_ UNLESS NOTED OTHERWISE.
   c. AT ALL EXTERIOR WINDOWS, THE CONTRACTOR SHALL INSTALL REINFORCEMENT WHERE BLINDS AND OR SHADES ARE INDICATED. ASSUME MANUAL ROLLER SHADES AT EXTERIOR WINDOWS IN ALL DORM ROOMS, OFFICES, CONFERENCE ROOMS, AND STAFF LOUNGES.
N. INTERIOR ARCHITECTURAL WOODWORK
   a. CONTRACTOR SHALL PROVIDE COLOR MATCHED CAULK TO MATCH ADJACENT SURFACE, WHERE NEEDED TO FILL GAPS WITHIN 1/8" TOLERANCE.
O. CEILINGS
   a. SOFFITS PAINTED IN AN ACCENT COLOR ARE NOTED ON SHEET A601, ACCENT COLOR SHALL BE PAINTED ON ALL EXPOSED SIDES OF SOFFIT WHERE INDICATED
P. WALL PROTECTION
   a. UNLESS OTHERWISE NOTED, ALL CORNER GUARDS SHALL BE FULL HEIGHT AND INSTALLED ABOVE THE BASE.
   b. IMPACT WALL PROTECTION SHEETING (WP) TO BE INSTALLED AS SHOWN ON INTERIOR DESIGN DRAWINGS, WITH ANTI-MICROBIAL ADHESIVE, NO EXPOSED FASTENERS AND NOT TO INTERFERE WITH GASES, ELECTRICAL OR SIMILAR.
Q. METAL LINER PANEL
   a. THE INTERIOR FINISH OF THE EXTERIOR WALLS IN THE APPARATUS BAY R00M 106 AND STORAGE ROOM 111, ARE A PRE-COATED METAL LINEAR PANEL.

## FINISH SYMBOLS LEGEND

ROOM NAME 101 — ROOM NAME / ROOM NUMBER
WALL FLOOR BASE — BASE FINISH DESIGNATION / FLOOR FINISH DESIGNATION / WALL FINISH DESIGNATION
XX-XX — ACCENT AND/OR SPECIFIC FINISH

## FINISH LEGEND

PAINT:

P-1
MANUFACTURER:
SHERWIN WILLIAMS
COLOR: SW 7654 LATTICE
FINISH: EGGSHELL
LOCATION: FIELD

P-2
MANUFACTURER:
SHERWIN WILLIAMS
COLOR: SW 7655
STAMPED CONCRETE
FINISH: SEMI GLOSS
LOCATION: TRIM

P-3
MANUFACTURER:
SHERWIN WILLIAMS
COLOR: SW 7602 INDIGO BATIK
FINISH: EGGSHELL
LOCATION: ACCENT

P-4
MANUFACTURER:
SHERWIN WILLIAMS
COLOR: SW 7005 PURE WHITE
FINISH: FLAT
LOCATION: CEILING

P-5
MANUFACTURER:
SHERWIN WILLIAMS
COLOR:
FINISH: EGGSHELL
NOTES: TO BE CHOSEN BY ARCHITECT DURING CONSTRUCTION TO MATCH CABINETS

EPOXY PAINT:

EP-1
MANUFACTURER:
SHERWIN WILLIAMS
COLOR: SW 7654 LATTICE
FINISH: EGGSHELL

VINYL COMPOSITION TILE:

VCT-1
MANUFACTURER: ARMSTRONG
COLOR: 5C237 TRACERY
SIZE: 12 X 12

VCT-2
MANUFACTURER: ARMSTRONG
COLOR: 5C915 CHARCOAL
SIZE: 12 X 12

VCT-3
MANUFACTURER: ARMSTRONG
COLOR: 5C230 VICTORIA BLUE
SIZE: 12 X 12

SHEET VINYL:

SV-1
MANUFACTURER: ARMSTRONG
STYLE: COLORART MEDINTONE
COLOR: H5306 NATURAL DARK GRAY
WELD ROD COLOR:
NOTE: HEAT WELDED SEAMS

SHEET VINYL BASE:

SVB-2
MANUFACTURER: ARMSTRONG
STYLE: COLORART MEDINTONE
COLOR: H5306 NATURAL DARK GRAY
WELD ROD COLOR:
NOTE: 4" INTEGRAL COVE BASE
NOTE: HEAT WELDED SEAMS

RUBBER BASE:

RB-1
MANUFACTURER:
COLOR:
STYLE: 4" COVE

RB-2
MANUFACTURER:
COLOR:
STYLE: 4" STRAIGHT

PLASTIC LAMINATE:

PL-1
MANUFACTURER: WILSONART
COLOR: SHADOW ZEPHYR 4857-60
FINISH: MATTE
LOCATION: COUNTERTOPS

PL-2
MANUFACTURER: WILSONART
COLOR: ATLANTIS D25-60
FINISH: GLOSS
LOCATION: KITCHEN BACKSPLASH

BLACKOUT SHADES:

BS-1
MANUFACTURER:
COLOR:


SIZELER THOMPSON BROWN ARCHITECTS
REGIONAL DESIGN GROUP, LLC
300 LAFAYETTE STREET, SUITE 200
NEW ORLEANS, LOUISIANA 70130
(504) 523-6472 FAX (504) 529-1181


Revisions

| No. | Description | Date |
|---|---|---|
| 1 | ADDENDA #2 | 11-15-2018 |

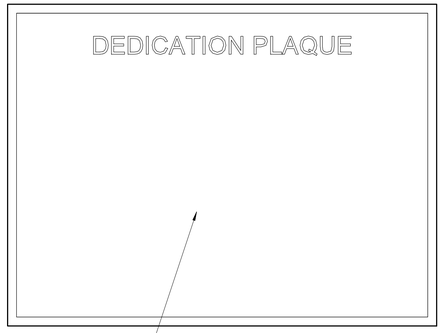
ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

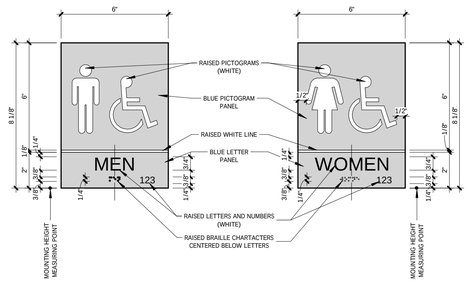
1ST FLOOR FINISH PLAN

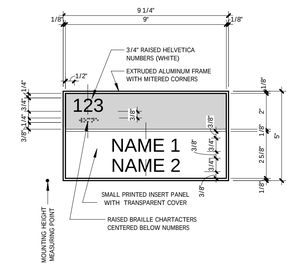
seal: THOMAS MOORE BROWN REG. No. 3401 STATE OF LOUISIANA LICENSED ARCHITECT

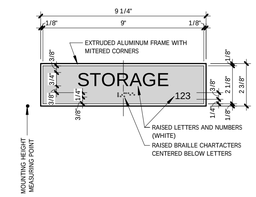
project number: 21238.00
date: OCTOBER 15, 2018
phase: BID DOCUMENTS
drawing number: A701

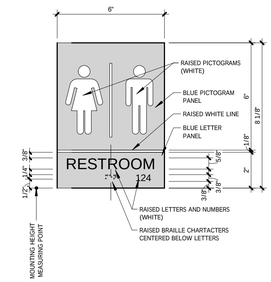
11/14/2018 5:31:18 PM



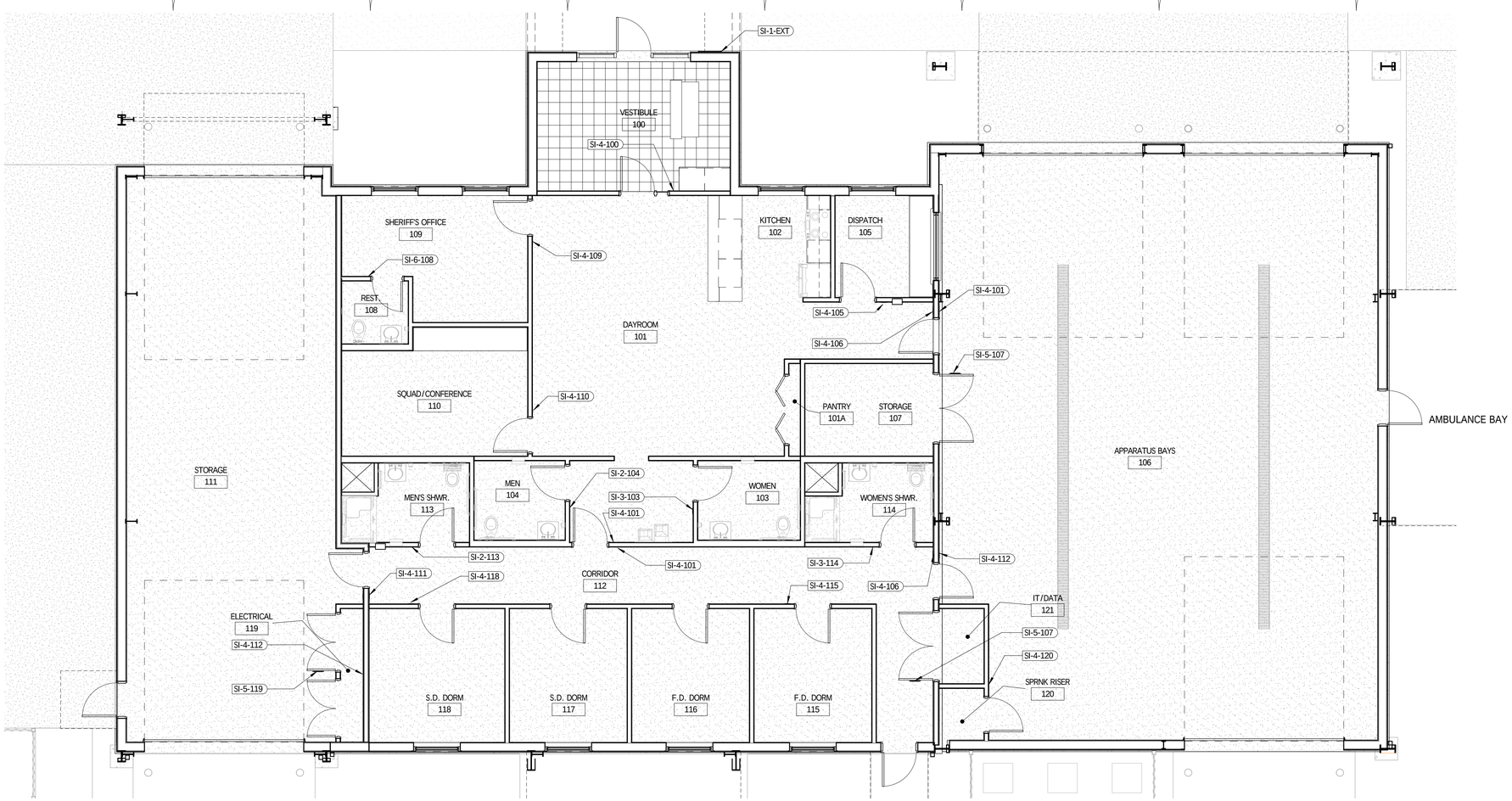




SIGN TYPE SI-1 | SIGN TYPE SI-2 | SIGN TYPE SI-3 | SIGN TYPE SI-4 | SIGN TYPE SI-5 | SIGN TYPE SI-6

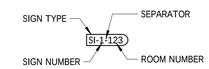



1 SIGNAGE PLAN
A702 3/16" = 1'-0"

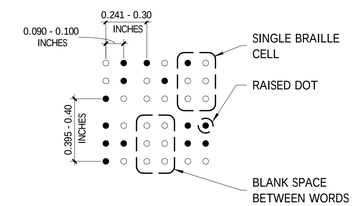
## SIGNAGE SCHEDULE

| ROOM NUMBER | SIGN TYPE | LOCATED IN ROOM | MOUNTING HEIGHT | COMMENTS | SIGN TEXT LINE 1 | SIGN TEXT LINE 2 |
|---|---|---|---|---|---|---|
| 100 | SI-4 | VESTIBULE | 4'-0" | | DAY | ROOM |
| 101 | SI-4 | CORRIDOR | 4'-0" | | DAY | ROOM |
| 101 | SI-4 | APPARATUS BAYS | 4'-0" | | DAY | ROOM |
| 101 | SI-4 | DAYROOM | 4'-0" | | DAY | ROOM |
| 104 | SI-2 | DAYROOM | 4'-0" | | | |
| 105 | SI-4 | DAYROOM | 4'-0" | | DISPATCH | OFFICE |
| 106 | SI-4 | DAYROOM | 4'-0" | | APPARATUS | BAY |
| 106 | SI-4 | CORRIDOR | 4'-0" | | APPARATUS | BAY |
| 108 | SI-6 | SHERIFF'S OFFICE | 4'-0" | | | |
| 109 | SI-4 | DAYROOM | 4'-0" | | SHERIFF'S | OFFICE |
| 110 | SI-4 | DAYROOM | 4'-0" | | SQUADROOM / | CONFERENCE |
| 111 | SI-4 | CORRIDOR | 4'-0" | | SHERIFF'S | STORAGE BAY |
| 112 | SI-4 | APPARATUS BAYS | 4'-0" | | DORM | CORRIDOR |
| 112 | SI-4 | STORAGE | 4'-0" | | DORM | CORRIDOR |
| 113 | SI-2 | CORRIDOR | 4'-0" | | | |
| 115 | SI-4 | CORRIDOR | 4'-0" | | FIREMENS' | DORM 1 |
| 118 | SI-4 | CORRIDOR | 4'-0" | | SHERIFF'S | DORM 2 |
| 120 | SI-4 | APPARATUS BAYS | 4'-0" | | SPRINKLER | RISER |
| EXT | SI-1 | | 4'-0" | ENTRANCE PLAQUE | | |

## INTERIOR SIGN TAG LEGEND




## BRAILLE MEASUREMENT




**Position.** Braille shall be positioned below the corresponding text. If text is multi-lined, braille shall be placed below the entire text. Braille shall be separated 3/8 inch (9.5 mm) minimum from any other *tactile characters* and 3/8 inch (9.5 mm) minimum from raised borders and decorative *elements*.


SIZELER THOMPSON BROWN ARCHITECTS
REGIONAL DESIGN GROUP, LLC
300 LAFAYETTE STREET, SUITE 200
NEW ORLEANS, LOUISIANA 70130
(504) 523-6472 FAX (504) 529-1181


Revisions

| No. | Description | Date |
|---|---|---|
| 1 | ADDENDA #2 | 11-15-2018 |

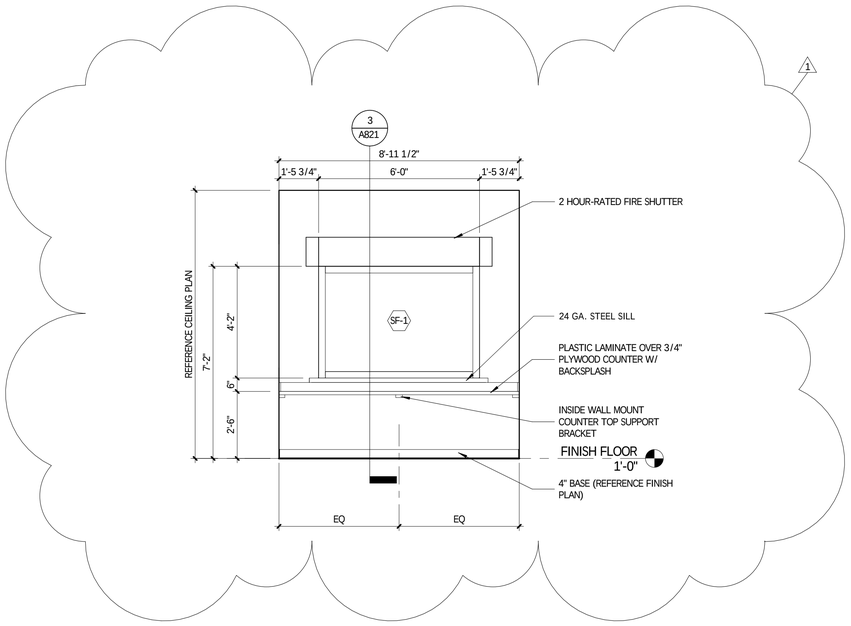
ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

SIGNAGE PLAN

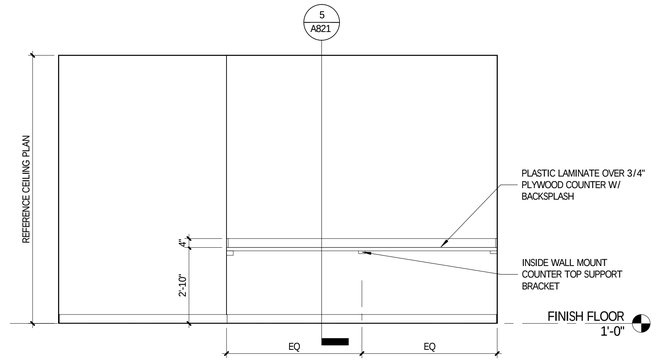
seal: THOMAS MOORE BROWN REG. No. 3401 STATE OF LOUISIANA REGISTERED ARCHITECT

| project number | drawing number |
|---|---|
| 21238.00 | A702 |
| date: OCTOBER 15, 2018 | |
| phase: BID DOCUMENTS | |

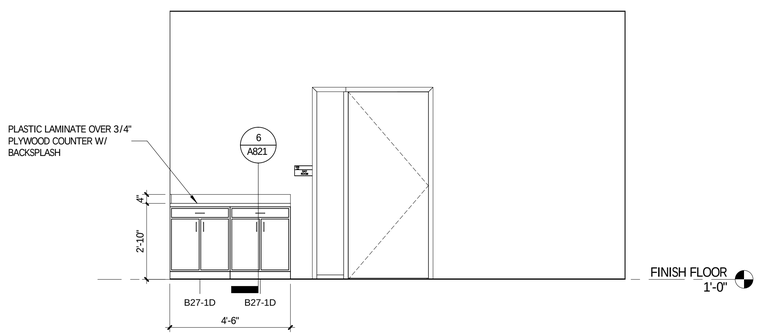
11/14/2018 5:31:17 PM




1 DISPATCH ROOM 105
A201 | A801 3/8" = 1'-0"




2 SQUAD/CONFERENCE ROOM 110
A201 | A801 3/8" = 1'-0"




3 MAIN ENTRY VESTIBULE ROOM 100
A201 | A801 3/8" = 1'-0"


SIZELER THOMPSON BROWN ARCHITECTS
REGIONAL DESIGN GROUP, LLC
300 LAFAYETTE STREET, SUITE 200
NEW ORLEANS, LOUISIANA 70130
(504) 523-6472 FAX (504) 529-1181


Revisions

| No. | Description | Date |
|---|---|---|
| 1 | ADDENDA #2 | 11-15-2018 |

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

INTERIOR ELEVATIONS

seal: THOMAS MOORE BROWN REG. No. 3401 STATE OF LOUISIANA REGISTERED ARCHITECT

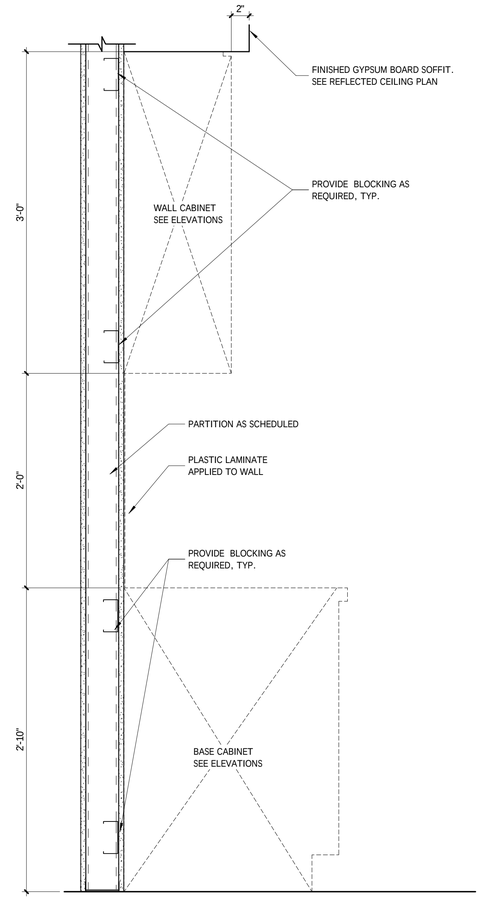
project number: 21238.00

date: OCTOBER 15, 2018

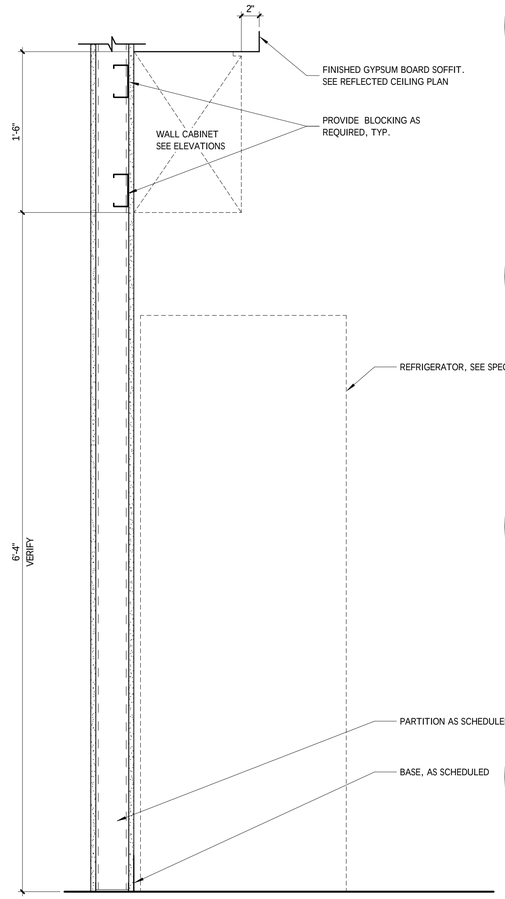
phase: BID DOCUMENTS

drawing number: A801

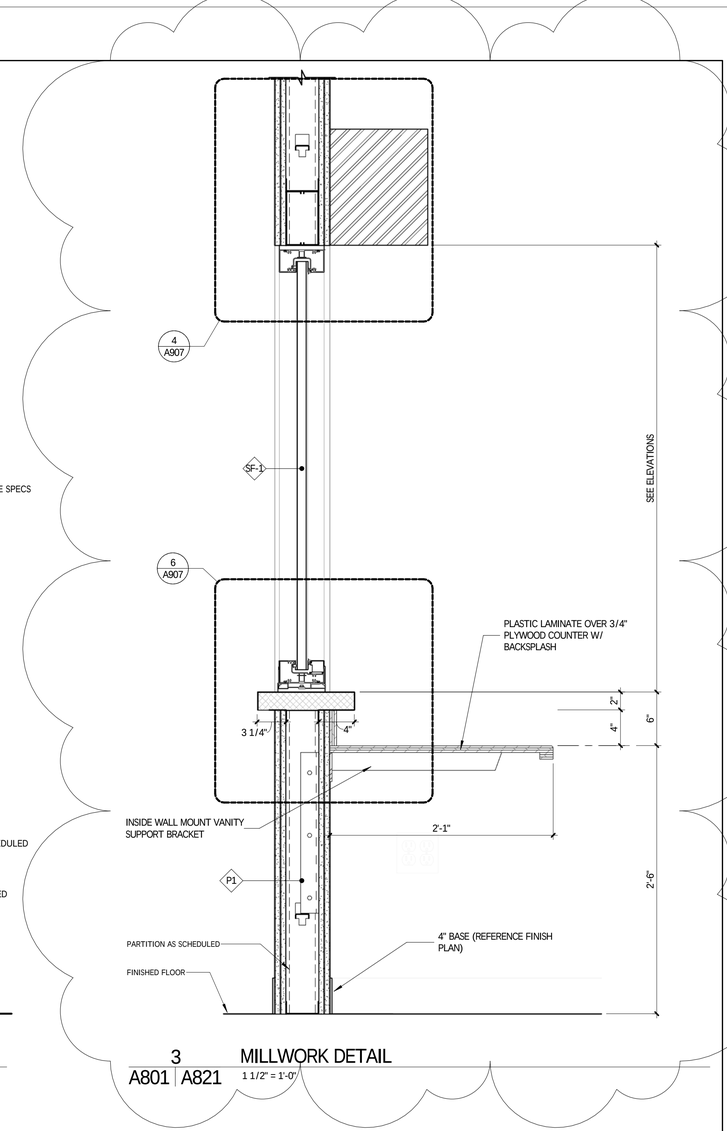
11/15/2018 4:22:00 PM



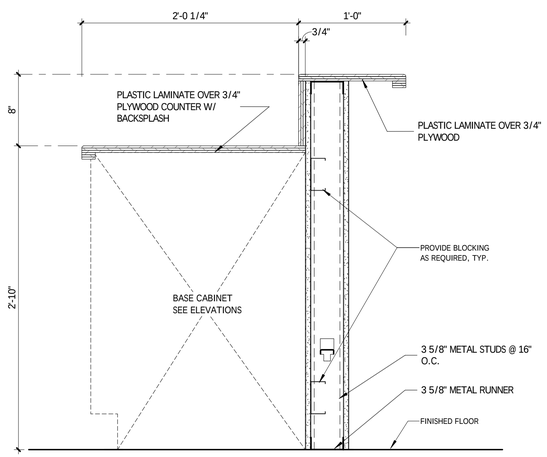

1 MILLWORK DETAIL
A223 | A821 1 1/2" = 1'-0"



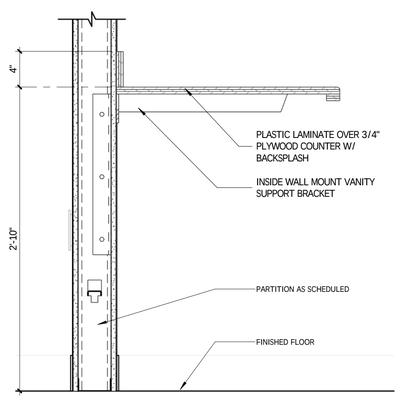

2 MILLWORK DETAIL
A223 | A821 1 1/2" = 1'-0"



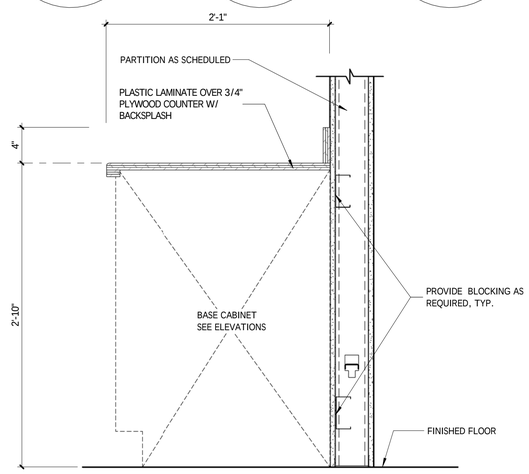

3 MILLWORK DETAIL
A801 | A821 1 1/2" = 1'-0"




4 MILLWORK DETAIL
A223 | A821 1 1/2" = 1'-0"




5 MILLWORK DETAIL
A801 | A821 1 1/2" = 1'-0"




6 MILLWORK DETAIL
A801 | A821 1 1/2" = 1'-0"


SIZELER THOMPSON BROWN ARCHITECTS
REGIONAL DESIGN GROUP, LLC
300 LAFAYETTE STREET, SUITE 200
NEW ORLEANS, LOUISIANA 70130
(504) 523-6472 FAX (504) 529-1181


Revisions

| No. | Description | Date |
|---|---|---|
| 1 | ADDENDA #2 | 11-15-2018 |

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

MILLWORK DETAILS

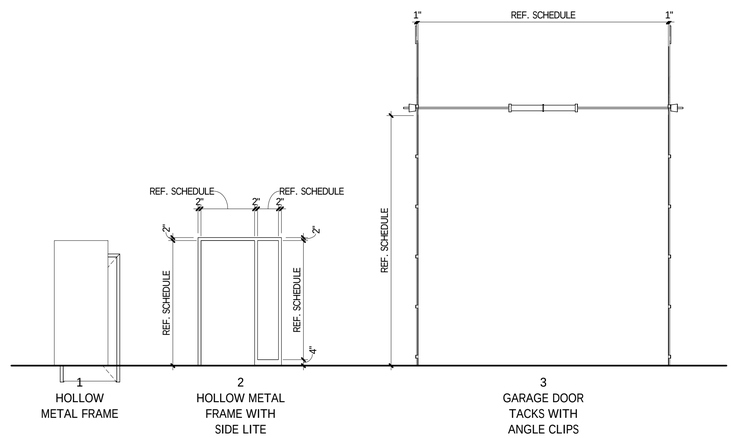
seal: THOMAS MOORE BROWN REG. No. 3401 STATE OF LOUISIANA REGISTERED ARCHITECT

| project number | drawing number |
|---|---|
| 21238.00 | A821 |
| date: OCTOBER 15, 2018 | |
| phase: BID DOCUMENTS | |

11/15/2018 4:22:01 PM

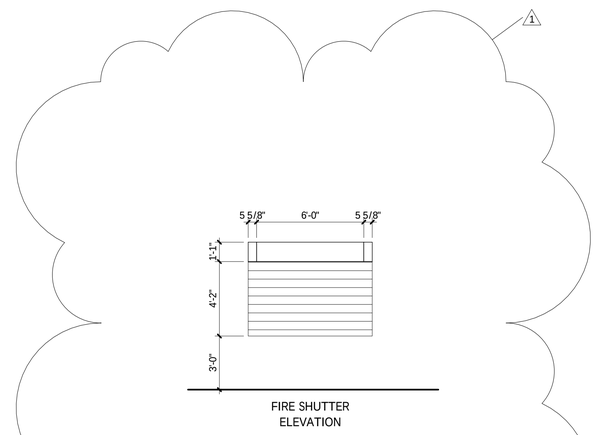
## DOOR SCHEDULE

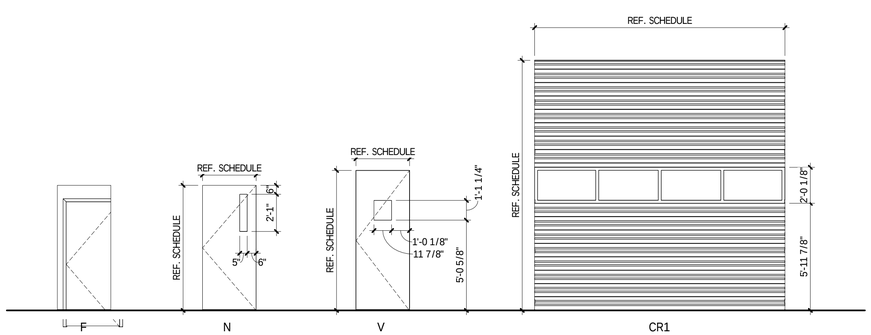
| MARK | FROM ROOM | TO ROOM | DOOR | | | | FRAME | | DETAILS | | | FIRE RATING | HARDWARE SET | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PANEL | WIDTH | HEIGHT | MATERIAL | MATERIAL | TYPE | HEAD | JAMB | SILL | | | |
| 100a | VESTIBULE | | F | 3'-0 1/2" | 8'-0" | AL | | | 3/A905 | 6/A905 | 9/A905 | None (Not Rated) | 3.0 | ACCESS CONTROL WITH BUZZ IN |
| 101a | VESTIBULE | DAYROOM | F | 3'-0" | 7'-0" | Wood | Hollow Metal | 2 | 2/A904 | 5/A904 | | None (Not Rated) | 5.0 | |
| 101b | CORRIDOR | DAYROOM | N6 | 3'-0" | 7'-0" | Wood | Hollow Metal | 1 | 2/A904 | 5/A904 | | 60 Minute | 13.0 | |
| 101c | DAYROOM | APPARATUS BAYS | V | 3'-0" | 7'-0" | Hollow Metal | Hollow Metal | 1 | 2/A904 | 5/A904 | | 90 Minute | 4.0 | ACCESS CONTROL, |
| 101d | | DAYROOM | F | 6'-0" | 7'-0" | Wood | Hollow Metal | 1 | 1/A904 | 4/A904 | 7/A904 | None (Not Rated) | 14.0 | BI-FOLD PANTRY DOOR |
| 103a | DAYROOM | WOMEN | F | 3'-0" | 7'-0" | Wood | Hollow Metal | 1 | 2/A904 | 5/A904 | | None (Not Rated) | 10.0 | |
| 104a | DAYROOM | MEN | F | 3'-0" | 7'-0" | Wood | Hollow Metal | 1 | 2/A904 | 5/A904 | | None (Not Rated) | 10.0 | |
| 105a | DAYROOM | DISPATCH | N6 | 3'-0" | 7'-0" | Wood | Hollow Metal | 1 | 2/A904 | 5/A904 | | None (Not Rated) | 13.0 | |
| 106a | | | CR1 | 14'-0" | 16'-0" | | | 3 | 3/A904 | 6/A904 | 8/A904 | None | 15.0 | OVERHEAD SECTIONAL DOOR |
| 106b | | | CR1 | 14'-0" | 16'-0" | | | 3 | 3/A904 | 6/A904 | | None | 15.0 | OVERHEAD SECTIONAL DOOR |
| 106c | | | CR1 | 14'-0" | 16'-0" | | | 3 | 3/A904 | 6/A904 | 8/A904 | None | 15.0 | OVERHEAD SECTIONAL DOOR |
| 106d | APPARATUS BAYS | | V | 3'-0" | 7'-10" | Hollow Metal | Hollow Metal | 1 | 1/A904 | 4/A904 | 7/A904 | None (Not Rated) | 2.0 | EXT,WIND, ACCESS CONTROL |
| 107a | STORAGE | APPARATUS BAYS | F | 6'-0" | 7'-0" | Hollow Metal | Hollow Metal | 1 | 2/A904 | 5/A904 | | 45 Minute | 6.0 | KEY LOCK |
| 108a | REST. | SHERIFF'S OFFICE | F | 2'-8" | 7'-0" | Wood | Hollow Metal | 1 | 2/A904 | 5/A904 | | | 12.0 | BATHROOM LOCK |
| 109a | DAYROOM | SHERIFF'S OFFICE | F | 3'-0" | 7'-0" | Wood | Hollow Metal | 1 | 2/A904 | 5/A904 | | 20 Minute | 16.0 | OFFICE LOCK |
| 110a | DAYROOM | SQUAD/CONFERENCE | N6 | 3'-0" | 7'-0" | Wood | Hollow Metal | 1 | 2/A904 | 5/A904 | | 45 Minute | 13.0 | |
| 111a | | | CR1 | 14'-0" | 16'-0" | | | 3 | 3/A904 | 6/A904 | 8/A904 | None | 15.0 | OVERHEAD SECTIONAL DOOR |
| 111b | STORAGE | | V | 3'-0" | 7'-10" | Hollow Metal | Hollow Metal | 1 | 1/A904 | 4/A904 | 7/A904 | None (Not Rated) | 2.0 | ACCESS CONTROL |
| 111d | | | CR1 | 14'-0" | 14'-0" | | | 3 | 3/A904 | 6/A904 | 8/A904 | None | 15.0 | OVERHEAD SECTIONAL DOOR |
| 112a | | CORRIDOR | V | 3'-0" | 7'-10" | Hollow Metal | Hollow Metal | 1 | 1/A904 | 4/A904 | 7/A904 | None (Not Rated) | 2.0 | ACCESS CONTROL |
| 112b | CORRIDOR | APPARATUS BAYS | V | 3'-0" | 7'-0" | Hollow Metal | Hollow Metal | 1 | 2/A904 | 5/A904 | | 90 Minute | 4.0 | ACCESS CONTROL |
| 112c | STORAGE | CORRIDOR | V | 3'-0" | 7'-0" | Hollow Metal | Hollow Metal | 1 | 2/A904 | 5/A904 | | 90 Minute | 4.0 | ACCESS CONTROL |
| 113a | CORRIDOR | MEN'S SHWR. | F | 3'-0" | 7'-0" | Wood | Hollow Metal | 1 | 2/A904 | 5/A904 | | None (Not Rated) | 11.0 | |
| 114a | CORRIDOR | WOMEN'S SHWR. | F | 3'-0" | 7'-0" | Wood | Hollow Metal | 1 | 2/A904 | 5/A904 | | None (Not Rated) | 11.0 | |
| 115a | CORRIDOR | F.D. DORM | F | 3'-0" | 7'-0" | Wood | Hollow Metal | 1 | 2/A904 | 5/A904 | | 20 Minute | 11.0 | |
| 116a | CORRIDOR | F.D. DORM | F | 3'-0" | 7'-0" | Wood | Hollow Metal | 1 | 2/A904 | 5/A904 | | 20 Minute | 11.0 | |
| 117a | CORRIDOR | S.D. DORM | F | 3'-0" | 7'-0" | Wood | Hollow Metal | 1 | 2/A904 | 5/A904 | | 20 Minute | 11.0 | |
| 118a | CORRIDOR | S.D. DORM | F | 3'-0" | 7'-0" | Wood | Hollow Metal | 1 | 2/A904 | 5/A904 | | 20 Minute | 11.0 | |
| 119a | ELECTRICAL | STORAGE | F | 5'-0" | 7'-0" | Hollow Metal | Hollow Metal | 1 | 2/A904 | 5/A904 | | None (Not Rated) | 7.0 | CHO,STORE, KEY LOCK |
| 119b | ELECTRICAL | STORAGE | F | 5'-0" | 7'-0" | Hollow Metal | Hollow Metal | 1 | 2/A904 | 5/A904 | | None (Not Rated) | 7.0 | CHO,STORE, KEY LOCK |
| 120a | SPRNK RISER | APPARATUS BAYS | F | 3'-0" | 7'-0" | Hollow Metal | Hollow Metal | 1 | 2/A904 | 5/A904 | | None (Not Rated) | 9.0 | |
| 121a | IT/DATA | CORRIDOR | F | 6'-0" | 7'-0" | Hollow Metal | Hollow Metal | 1 | 2/A904 | 5/A904 | | 45 Minute | 8.0 | |




DOOR FRAME TYPES

1/4" = 1'-0"




DOOR PANEL TYPES

1/4" = 1'-0"

## DOOR SCHEDULE ABBREVIATION LEGEND

PEH = PANIC EXIT HARDWARE

STC = SOUND TRANSMISSION RATED DOOR & FRAME

CR = DOOR ACCESS CONTROLLED BY CARD READER


SIZELER THOMPSON BROWN ARCHITECTS
REGIONAL DESIGN GROUP, LLC
300 LAFAYETTE STREET, SUITE 200
NEW ORLEANS, LOUISIANA 70130
(504) 523-6472 FAX (504) 529-1181


Revisions

| No. | Description | Date |
|---|---|---|
| 1 | ADDENDA #2 | 11-15-2018 |

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

SCHEDULES (DOORS AND WINDOWS)

seal: THOMAS MOORE BROWN REG. No. 34071 STATE OF LOUISIANA REGISTERED ARCHITECT

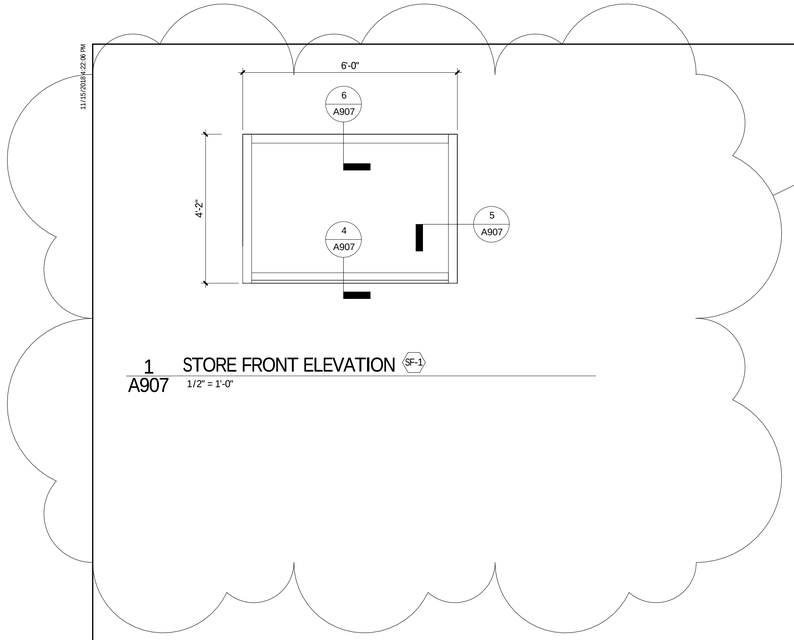
project number: 21238.00

date: OCTOBER 15, 2018

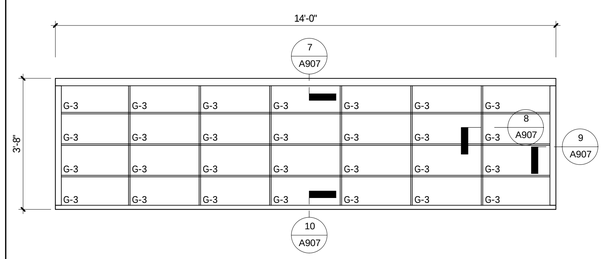
phase: BID DOCUMENTS

drawing number: A903

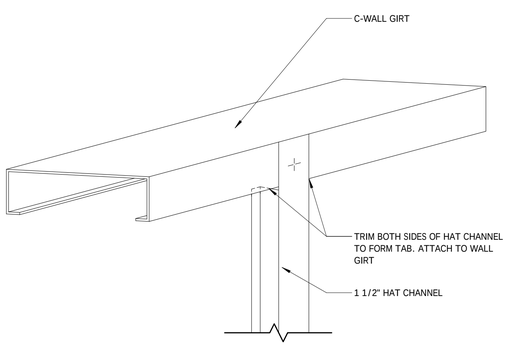
11/15/2018 8:22:06 PM



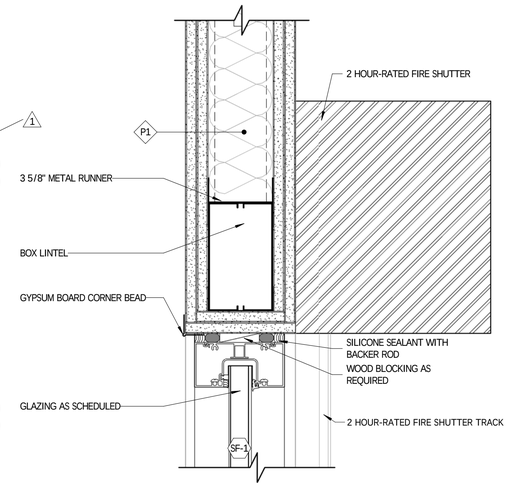

1 A907 STORE FRONT ELEVATION SF-1
1/2" = 1'-0"



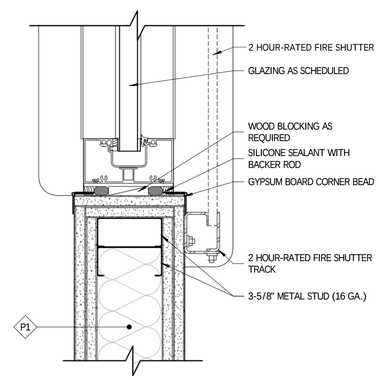

2 A907 TRANSLUCENT WALL SYSTEM ELEVATION TW1
1/2" = 1'-0"



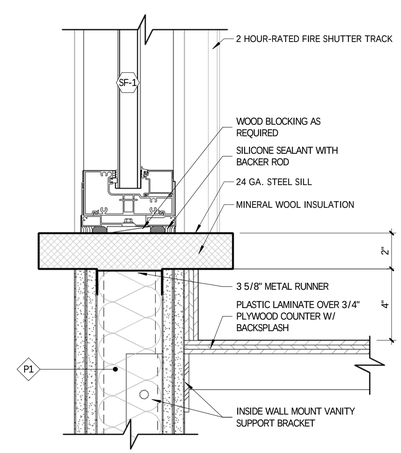

3 A907 C-WALL GIRT AND HAT CHANNEL CONNECTION
3" = 1'-0"



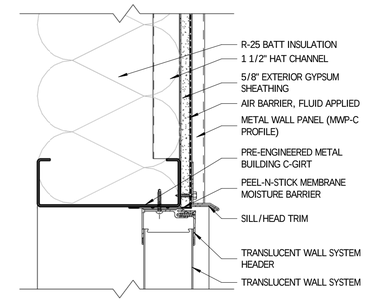

4 A907 HEAD DETAIL @ SF-1
3" = 1'-0"



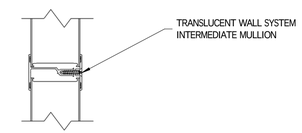

5 A907 JAMB DETAIL @ SF-1
3" = 1'-0"



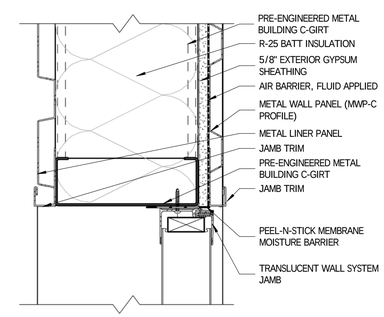

6 A907 SILL DETAIL @ SF-1
3" = 1'-0"



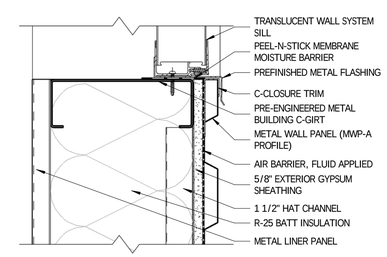

7 A907 HEAD DETAIL @ TW1
3" = 1'-0"




8 A907 INTERMEDIATE MULLION DETAIL @ TW1
3" = 1'-0"




9 A907 JAMB DETAIL @ TW1
3" = 1'-0"




10 A907 SILL DETAIL @ TW1
3" = 1'-0"


SIZELER THOMPSON BROWN ARCHITECTS
SIZELER THOMPSON BROWN ARCHITECTS
REGIONAL DESIGN GROUP, LLC
300 LAFAYETTE STREET, SUITE 200
NEW ORLEANS, LOUISIANA 70130
(504) 523-6472 FAX (504) 529-1181


Revisions

| No. | Description | Date |
|---|---|---|
| 1 | ADDENDA #2 | 11-15-2018 |

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

WINDOW DETAILS

seal: THOMAS MOORE BROWN REG. No. 3401 STATE OF LOUISIANA REGISTERED ARCHITECT

project number: 21238.00

date: OCTOBER 15, 2018

phase: BID DOCUMENTS

drawing number: A907

# WESTBANK PUBLIC SAFETY COMPLEX

5739 HIGHWAY 18
EDGARD, LA 70049

## ARCHITECT

SIZELER THOMPSON BROWN ARCHITECTS

REGIONAL DESIGN GROUP, LLC
300 LAFAYETTE STREET, SUITE 200
NEW ORLEANS, LOUISIANA 70130
(504) 523-6472 FAX (504) 529-1181

## CONSULTANTS

### CIVIL/STRUCTURAL ENGINEER

FOX-NESBIT ENGINEERING

900 CAMP STREET, SUITE 360,
NEW ORLEANS, LA 70130,
(225) 293-6595

### MECHANICAL/ ELECTRICAL ENGINEER

MOSES ENGINEERS, INC.

909 POYDRAS STREET, SUITE 2150
NEW ORLEANS, LOUISIANA 70112
(504) 586-1725 FAX (504) 586-1846

## INDEX OF DRAWINGS VOLUME 2


| SHEET NUMBER | SHEET NAME | REVISIONS DATE | REVISION NO. |
|---|---|---|---|
| 01 GENERAL INFORMATION | | | |
| G101.2 | INDEX OF DRAWINGS - VOLUME 2 OF 2 | 11-15-2018 | 1 |
| 05 STRUCTURAL | | | |
| S101 | FOUNDATION PLAN | | |
| S102 | SLAB PLAN | | |
| S201 | ROOF FRAMING PLAN | | |
| S301 | BUILDING SECTIONS | | |
| S302 | BUIDLING SECTIONS | | |
| S401 | FRAMING DETAILS | | |
| S402 | FRAMING DETAILS | | |
| S501 | FOUNDATION DETAILS | | |
| S502 | FOUNDATION DETAILS | | |
| S503 | FOUNDATION DETAILS | | |
| S504 | PEDESTAL DETAILS | | |
| S601 | GENERAL NOTES | | |
| S602 | SCHEDULES | | |
| 06 MECHANICAL | | | |
| M001 | HVAC SYMBOLS, GENERAL NOTES, AND ABBREVIATIONS | | |
| M002 | MECHANICAL SCHEDULES | | |
| M201 | MECHANICAL PLAN | 11-15-2018 | 1 |
| M401 | MECHANICAL DETAILS | | |
| M402 | MECHANICAL DETAILS | | |
| M403 | MECHANICAL SECTIONS | | |
| 07 PLUMBING | | | |
| P001 | PLUMBING SYMBOLS, SCHEDULES, AND NOTES | 11-15-2018 | 1 |
| P201 | UNDERGROUND PLUMBING PLAN | 11-15-2018 | 1 |
| P202 | PLUMBING PLAN | 11-15-2018 | 1 |
| P401 | RISE DIAGRAMS - DOMESTIC WATER & NATURAL GAS DIAGRAM | 11-15-2018 | 1 |
| P402 | RISER DIAGRAMS - WASTE AND VENT | 11-15-2018 | 1 |
| P500 | DETAILS - PLUMBING | | |
| P501 | DETAILS - PLUMBING | | |
| 08 ELECTRICAL | | | |
| E001 | ELECTRICAL SYMBOLS | 11-15-2018 | 1 |
| E002 | ELECTRICAL NOTES | | |
| E003 | ELECTRICAL NOTES AND SCHEDULES | 11-15-2018 | 1 |
| E101 | ELECTRICAL SITE PLAN | 11-15-2018 | 1 |
| E201 | LIGHTING PLAN | 11-15-2018 | 1 |
| E301 | POWER PLANS | 11-15-2018 | 1 |
| E401 | COMMUNICATIONS PLAN PLANS | 11-15-2018 | 1 |
| E501 | ELECTRICAL ENLARGED PLANS, SECTIONS, AND ELEVATIONS | 11-15-2018 | 1 |
| E601 | POWER RISER DIAGRAM AND PANEL SCHEDULES | 11-15-2018 | 1 |
| E602 | COMMUNICATIONS RISER DIAGRAMS | | |
| E801 | ELECTRICAL DETAILS | | |
| E802 | ELECTRICAL DETAILS | 11-15-2018 | 1 |
| E803 | ELECTRICAL DETAILS | | |
| E804 | ELECTRICAL DETAILS | | |
| E805 | ELECTRICAL DETAILS | 11-15-2018 | 1 |
| 09 FIRE PROTECTION | | | |
| F001 | FIRE PROTECTION GENERAL NOTES, SYMBOLS, ABBREVIATIONS, AND DETAILS | | |
| F002 | FIRE PROTECTION PLAN | | |


VOLUME 2 OF 2
CONSTRUCTION DOCUMENTS

1

SIZELER THOMPSON BROWN ARCHITECTS
REGIONAL DESIGN GROUP, LLC
300 LAFAYETTE STREET, SUITE 200
NEW ORLEANS, LOUISIANA 70130
(504) 523-6472 FAX (504) 529-1181

Revisions

| No. | Description | Date |
|---|---|---|
| 1 | ADDENDA #2 | 11-15-2018 |

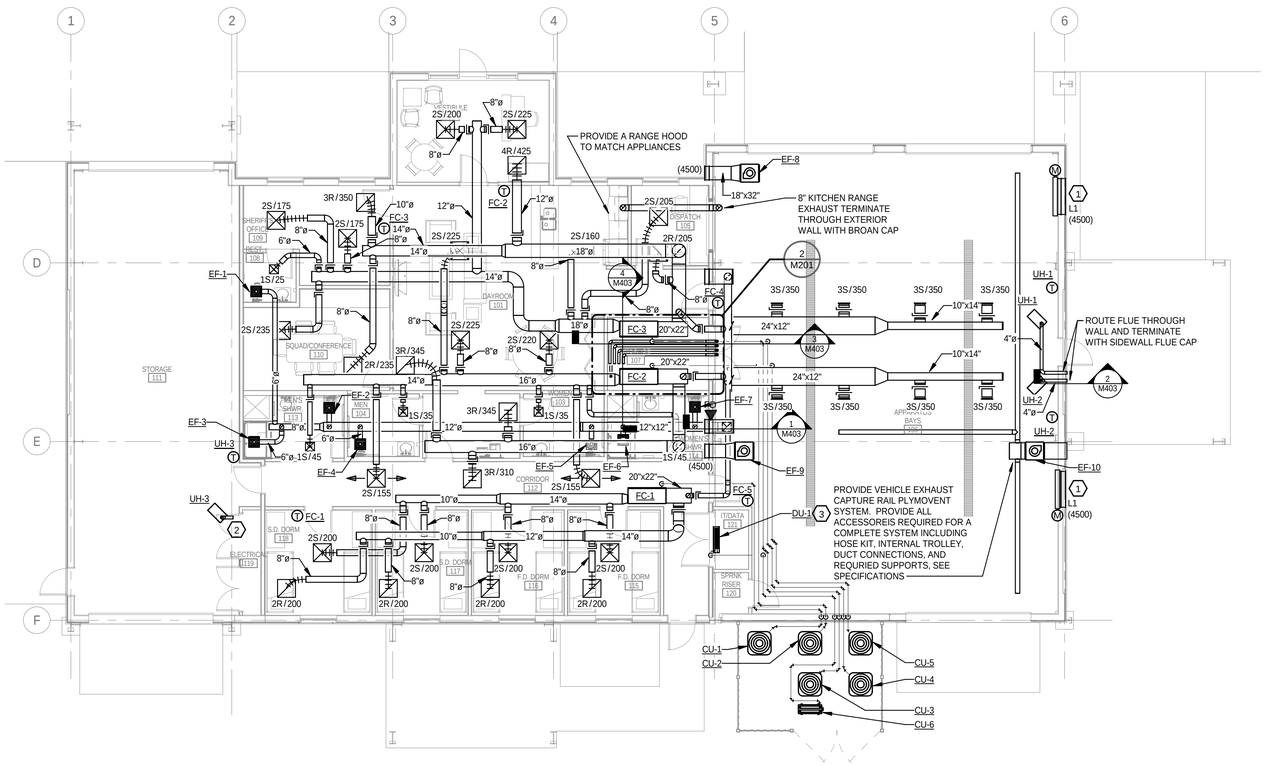
ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

INDEX OF DRAWINGS - VOLUME 2 OF 2

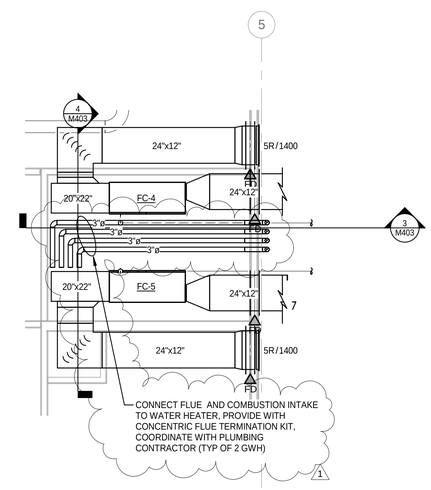
seal: THOMAS MOORE BROWN REG. No. 3401 STATE OF LOUISIANA REGISTERED ARCHITECT

project number: 21238.00
date: OCTOBER 15, 2018
phase: BID DOCUMENTS
drawing number: G101.2

11/15/2018 11:26:25 AM




1 M201 HVAC PLAN
1/8" = 1'-0"




2 M201 HVAC PLAN - STACKED FAN COIL UNITS
1/4" = 1'-0"

## SHEET REFERENCE NOTES

1. PROVIDE 48"x48" INTAKE LOUVER. PROVIDE SLEEVE WITH MOTORIZED DAMPER IN THE SLEEVE. THE DAMPER SHALL BE INTERLOCKED WITH EF-8 AND EF-9. LOUVER SHALL OPEN WHEN FAN IS ENGERGIZED. PROVIDE REQUIRED RELAYS TO CONTROL LOUVER DAMPER ACTUATOR. DAMPER ACTUATOR SHALL BE 120V.
2. ROUTE FLUE THROUGH EXTERIOR WALL ABOVE THE LOW ROOF.
3. COORDINATE LOCATION WITH IT EQUIPMENT. PUMP CONDENSATE TO NEAREST DRAIN.


MOSES ENGINEERS
CONSULTING ENGINEERS
909 Poydras Street, Suite 2150
New Orleans, Louisiana 70112-1034
Tel. 504-586-1725
Fax 855-327-4815

SIZELER THOMPSON BROWN ARCHITECTS
REGIONAL DESIGN GROUP, LLC
300 LAFAYETTE STREET, SUITE 200
NEW ORLEANS, LOUISIANA 70130
(504) 523-6472 FAX (504) 529-1181


Revisions

| No. | Description | Date |
|---|---|---|
| 1 | Addendum #2 | 11/15/2018 |

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

MECHANICAL PLAN

seal: STATE OF LOUISIANA — CHRISTOPHER DAVID CHAUVIN, REG. NO. 38045, REGISTERED PROFESSIONAL ENGINEER, MECHANICAL ENGINEER

project number: 21238.00

date: OCTOBER 15, 2018

phase: BID DOCUMENTS

drawing number: M201

11/15/2018 11:31:50 AM

## PUMP SCHEDULE

| MARK | FLOW (GPM) | HEAD (FT) | MOTOR (HP) | MOTOR (RPM) | VOLT (V) | PHASE (φ) | MFR | MODEL |
|---|---|---|---|---|---|---|---|---|

1

## GAS-FIRED WATER HEATER SCHEDULE

REMARKS:
1.
2.
3.

| MARK | TYPE | LOCATION | GPM | TEMP °F RISE | THERMAL EFFICIENCY | INPUT (MBH) | INTAKE | EXHAUST DIA. IN. | VOLTAGE (V) | PHASE (φ) | FREQUENCY (Hz) | MANUFACTURER | MODEL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GWH-1 | TANKLESS | STORAGE `07 | 9.5 | 70 | 93% | 199 | 3 | 3 | 120 | 1 | 60 | AO SMITH | CT-199 |
| GWH-2 | TANKLESS | STORAGE `07 | 9.5 | 70 | 93% | 199 | 3 | 3 | 120 | 1 | 60 | AO SMITH | CT-199 |

1

## GENERAL PLUMBING NOTES

1. SET ALL FLOOR SINKS, OPEN SITE DRAINS, AND HUB DRAINS WITH THEIR RIM 1" HIGHER THAN THE SURROUNDING FLOOR. REFER TO DETAILS FOR FLOOR SINKS AND OPEN SITE DRAINS.
2. PLUMBING FIXTURES SHALL BE COMPLETE WITH ALL NECESSARY FITTINGS, ANGLES STOPS, CARRIERS, ETC AS REQUIRED FOR A COMPLETE SERVICE. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR FIXTURE LOCATION AND MOUNTING HEIGHT OF WALL MOUNTED FIXTURES.
3. ALL PLUMBING WORK SHALL BE COMPLETE AND READY FOR SATISFACTORY SERVICE.
4. PROVIDE A SHUT OFF VALVE ON EACH DOMESTIC HOT & COLD WATER BRANCH FROM MAIN. NO FIXTURE OR GROUP OF FIXTURES SHALL BE CONNECTED TO MAIN WITHOUT MEANS OF ISOLATION. THESE VALVES SHALL BE PROVIDED WHETHER SHOWN ON DRAWINGS OR NOT. LOCATE VALVES, WATER HAMMER ARRESTERS AND TRAP-SEAL PRIMER VALVES FOR EASY ACCESS. IF EASY ACCESS IS NOT AVAILABLE, INSTALL METAL ACCESS PANEL. COORDINATE ACCESS PANELS WITH ARCHITECT.
5. ATTACH SELF ADHESIVE LABEL AT CEILING GRID OR ACCESS PANEL TO INDICATE LOCATION OF ALL ABOVE CEILING PLUMBING EQUIPMENT SUCH AS SHUT-OFF VALVES, WATER HEATERS, PUMPS, ETC.
6. PROTECTIVE SHEILD PIPE COVERS COMPLAINT WITH ADA REQUIREMENTS OR PROTECTIVE SHIELDING PIPING ENCLOSURE COMPLIANT WITH ADA REQUIREMENTS SHALL BE PROVIDED FOR ALL ACCESSIBLE SINKS AND LAVATORIES THAT CAN BE APPROACHED AND USED BY PEOPLE WITH DISABILITIES.
7. THESE DRAWINGS ARE SCHEMATIC AND ARE INTENDED TO DEPICT THE GENERAL LOCATION OF THE PLUMBING SYSTEM COMPONENTS. THE CONTRACTOR SHALL MAKE ADJUSTMENTS FOR SPACE REQUIREMENTS AND CONFLICTS WITH OTHER TRADES AND SHALL OBTAIN APPROVAL FROM THE ARCHITECT FOR ANY VARIATION FROM THE INDICATED LOCATIONS.
8. ALL PLUMBING MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.

## PLUMBING SHEET INDEX


| SHEET NUMBER | SHEET TITLE |
|---|---|
| P001 | PLUMBING SYMBOLS, SCHEDULES, AND NOTES |
| P201 | UNDERGROUND PLUMBING PLAN |
| P202 | PLUMBING PLAN |
| P401 | RISER DIAGRAMS - DOMESTIC WATER & NATURAL GAS DIAGRAM |
| P402 | RISER DIAGRAMS - WASTE AND VENT |
| P500 | DETAILS - PLUMBING |
| P501 | DETAILS - PLUMBING |


## PLUMBING FIXTURE SCHEDULE

| MARK | DESCRIPTION | CW CONNECTION | HW CONNECTION | WASTE CONNECTION | VENT CONNECTION | BASIS OF DESIGN MANUFACTURER | BASIS OF DESIGN MODEL | ACCESSORIES | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| CO | CLEAN OUT | | | 4" | | ZURN | Z-1400-VP | | |
| EWC-1 | ELECTRIC WATER COOLER | 3/4" | | 2" | 2" | SEE SPECIFICATIONS | | | |
| FD-1 | FLOOR DRAIN | | | | | ZURN | ZN-415-P-VP-B | | |
| FD-2 | FLOOR DRAIN WITH FUNNEL | | | | | ZURN | Z-415-P-VP-E | | |
| IMB-1 | ICE MAKER BOX | 3/4" | | | | IPS CORPERATION | SSIB1AB | | |
| L-1 | LAVATORY | 3/4" | 3/4" | 2" | 2" | SEE SPECIFICATIONS | | | |
| SH-1 | SHOWER | 3/4" | 3/4" | 2" | 2" | SEE SPECIFICATIONS | | | |
| TD-1 | TRENCH DRAIN | | | | | NDS | PRO SERIES 12" CAST IRON HEAVY TRAFFIC CHANNEL GRATE | | |
| WC-1 | WATER CLOSET | 1 1/2" | | 4" | 3" | SEE SPECIFICATIONS | | | |
| WH-1 | WALL HYDRANT | 3/4" | | | | JR SMITH | 5519 | | |

## PLUMBING ABBREVIATIONS

| | | |
|---|---|---|
| (E) | - | EXISTING |
| (N) | - | NEW |
| AD | - | AREA DRAIN |
| AFF | - | ABOVE FINISHED FLOOR |
| AP | - | ACCESS PANEL |
| ARCH | - | ARCHITECTURAL |
| AS | - | AUTOMATIC FIRE SPRINKLER |
| AV | - | ACID VENT |
| AW | - | ACID WASTE |
| BFF | - | BELOW FINISHED FLOOR |
| BFG | - | BELOW FINISHED GRADE |
| BHP | - | BRAKE HORSEPOWER |
| BV | - | BALANCING VALVE |
| CD | - | CONDENSATE DRAIN |
| CFF | - | CAPPED FOR FUTURE CONNECTION |
| CFM | - | CUBIC FEET PER MINUTE |
| CHV | - | CHECK VALVE |
| COND | - | CONDENSATE |
| CONN | - | CONNECTION |
| CONT | - | CONTINUATION |
| CTE | - | CONNECT TO EXISTING |
| CU. FT. | - | CUBIC FEET |
| CU. IN. | - | CUBIC INCHES |
| CW | - | COLD WATER |
| DCW | - | DOMESTIC COLD WATER |
| DFU | - | DRAINAGE FIXTURE UNITS |
| DHW | - | DOMESTIC HOT WATER |
| DIA | - | DIAMETER |
| DW | - | DISHWASHER |
| EL | - | ELEVATION |
| FCO | - | FLOOR CLEANOUT |
| FD | - | FLOOR DRAIN |
| FHC | - | FIRE HOSE CABINET |
| FHV | - | FIRE HOSE VALVE |
| FIN. FLR. | - | FINISHED FLOOR |
| FS | - | FLOOR SINK |
| FT | - | FEET |
| GAL | - | GALLON |
| GCO | - | GRADE CLEANOUT |
| GPM | - | GALLONS PER MINUTE |
| GV | - | GATE VALVE |
| HB | - | HOSE BIBB |
| HD | - | HUB DRAIN |
| HP or hp | - | HORSEPOWER |
| HW | - | HOT WATER |
| HWR | - | HOT WATER RETURN |
| IN | - | INCH |
| kW | - | KILOWATT |
| LAV | - | LAVATORY |
| LB or lb | - | POUND |
| MAX | - | MAXIMUM |
| MBH | - | THOUSAND BRITISH THERMAL UNITS PER HOUR |
| MIN | - | MINIMUM |
| NC | - | NORMALLY CLOSED |
| NO | - | NORMALLY OPENED |
| NO. | - | NUMBER |
| OD or OFD | - | OVERFLOW DRAIN |
| OS&Y | - | OUTSIDE SCREW AND YOKE |
| OSD | - | OPEN SITE DRAIN |
| PD | - | PUMPED DISCHARGE |
| PG | - | PRESSURE GUAGE |
| POC | - | POINT OF CONNECTION |
| PRV | - | PRESSURE REDUCING VALVE |
| PSI | - | POUNDS PER SQUARE INCH |
| RD | - | ROOF DRAIN |
| RPBP | - | REDUCED PRESSURE BACKFLOW PREVENTER |
| RPM | - | REVOLUTIONS PER MINUTE |
| SD | - | STORM DRAIN |
| SOV | - | SHUT-OFF VALVE |
| SQ. FT. | - | SQUARE FEET |
| TP | - | TRAP PRIMER |
| TS | - | TAMPER SWITCH |
| TW | - | TEPID WATER |
| TYP | - | TYPICAL |
| UR | - | URINAL |
| V | - | VENT |
| VTR | - | VENT THRU ROOF |
| W | - | WASTE |
| WC | - | WATER CLOSET |
| WCO | - | WALL CLEANOUT |
| WH | - | WATER HEATER |
| WHA | - | WATER HAMMER ARRESTER |
| WSFU | - | WATER SUPPLY FIXTURE UNITS |

## PLUMBING SYMBOLS

THIS IS A TYPICAL SCHEDULE. NOT ALL SYMBOLS ARE NECESSARILY USED ON THIS PROJECT.

| | |
|---|---|
| | PIPE ELBOW TURNED UP |
| | PIPE ELBOW TURNED DOWN |
| | TEE OFF BOTTOM |
| | TEE OFF TOP |
| | SOIL OR WASTE |
| V | SANITARY VENT |
| | DOMESTIC COLD WATER (CW) |
| | 120° DOMESTIC HOT WATER (HW) |
| | 120° DOMESTIC HOT WATER RETURN (HWR) |
| 140° | 140° DOMESTIC HOT WATER |
| | 140° DOMESTIC HOT WATER RETURN |
| A | COMPRESSED AIR |
| AV | ACID VENT |
| AW | ACID WASTE |
| GW | GREASE WASTE |
| D | DRAIN |
| HPG | HIGH PRESSURE NATURAL GAS |
| G | LOW PRESSURE NATURAL GAS |
| ST | STORM DRAIN |
| LO | LUBE OIL |
| MO | MOTOR OIL |
| | DIRECTION OF FLOW IN PIPE |
| | PIPE SLOPES DOWN IN DIRECTION INDICATED |
| | POINT BETWEEN NEW AND EXISTING WORK |
| | POINT BETWEEN DEMO AND EXIST TO REMAIN |
| P NO. | WASTE AND VENT RISER NO. |
| DW NO. | DOMESTIC WATER RISER NO. |
| | GATE VALVE |
| | GLOBE VALVE |
| | STRAINER |
| | CHECK VALVE |
| | BALL VALVE |
| | PLUG COCK OR VALVE |
| | TEMPERATURE-PRESSURE RELIEF VALVE |
| HB | HOSE BIBB |
| FD FD | FLOOR DRAIN (PLAN & ELEVATION) |
| CO CO | CLEANOUT (PLAN & ELEVATION) |
| OSD OSD | OPEN SIGHT DRAIN (PLAN & ELEVATION) |
| DS | DOWN SPOUT |
| HB | HOSE BIBB |
| OSD | OPEN SIGHT DRAIN |
| RD | ROOF DRAIN |
| V | VENT |
| W | WASTE |
| VTR | VENT THRU ROOF |
| TP | TRAP PRIMER |
| | CIRCUIT SETTER |
| T | PLUMBING FIXTURE 120V TO 24V TRANSFORMER |
| | GAS PRESSURE REGULATING VALVE |
| | SOLENOID VALVE |
| | PRESSURE REGULATING VALVE |


MOSES ENGINEERS
CONSULTING ENGINEERS
909 Poydras Street, Suite 2150
New Orleans, Louisiana 70112-1034
Tel. 504-586-1725
Fax 855-327-4815

SIZELER THOMPSON BROWN ARCHITECTS
SIZELER THOMPSON BROWN ARCHITECTS
REGIONAL DESIGN GROUP, LLC
300 LAFAYETTE STREET, SUITE 200
NEW ORLEANS, LOUISIANA 70130
(504) 523-6472 FAX (504) 529-1181


Revisions

| No. | Description | Date |
|---|---|---|
| 1 | Addendum #2 | 11/15/2018 |

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

PLUMBING SYMBOLS, SCHEDULES, AND NOTES

seal: STATE OF LOUISIANA — CHRISTOPHER DAVID CHAUVIN, REG. NO. 38045, REGISTERED PROFESSIONAL ENGINEER IN MECHANICAL ENGINEERING

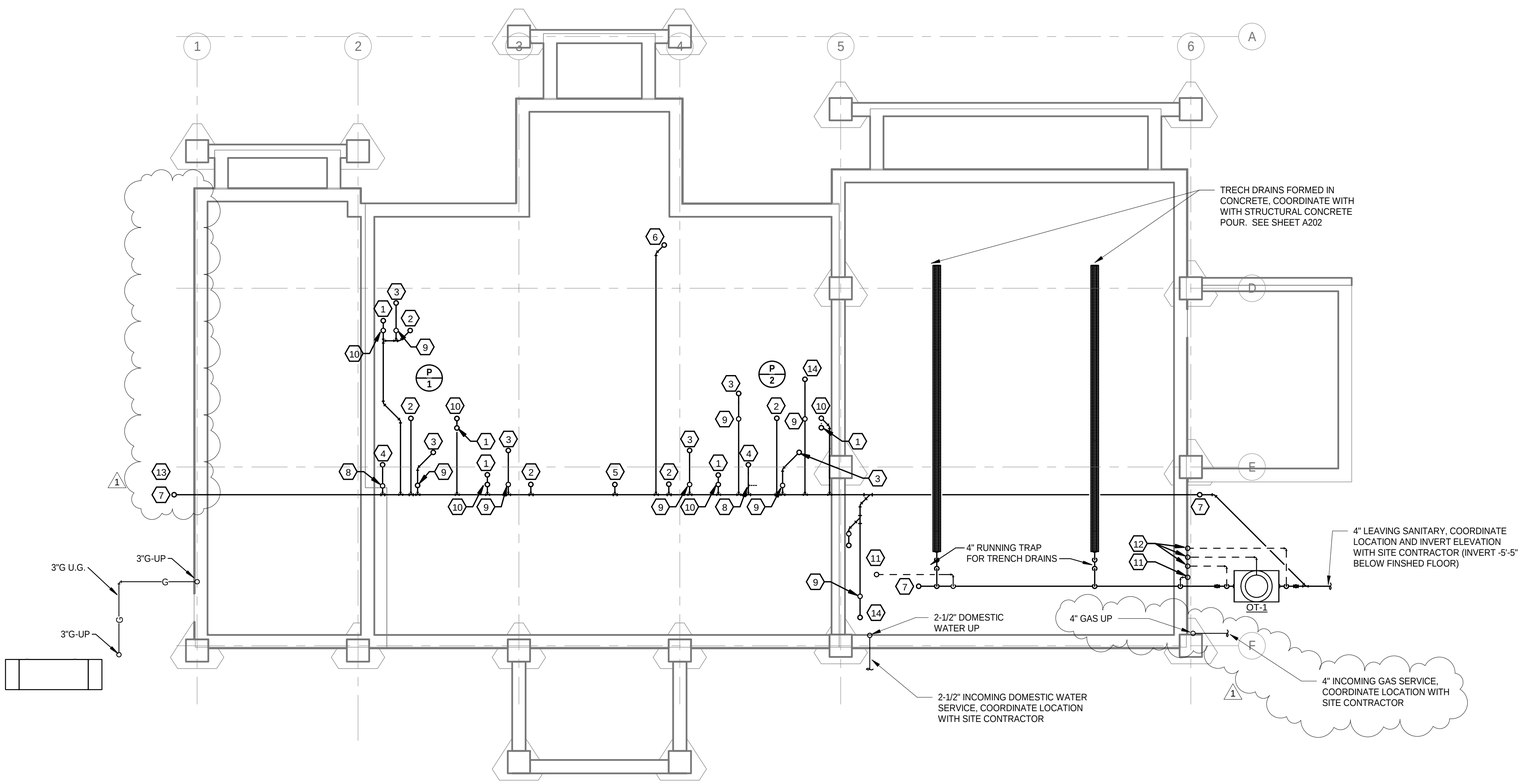
project number: 21238.00

date: OCTOBER 15, 2018

phase: BID DOCUMENTS

drawing number: P001

11/15/2018 11:20:17 AM




1
P201

UNDERGROUND PLUMBING PLAN

1/8" = 1'-0"

## SHEET REFERENCE NOTES

1 4" SANITARY UP TO WATER CLOSET.

2 2" SANITARY UP TO LAVATORY.

3 3" SANITARY UP TO FLOOR DRAIN.

4 2" SANITARY UP TO SHOWER DRAIN.

5 2" SANITARY UP TO DRINKING FOUNTAIN DRAIN.

6 3" SANITARY UP TO KITCHEN SINK DRAIN.

7 4" SANITARY UP TO CLEANOUT.

8 2" VENT UP FROM SHOWER DRAIN.

9 2" VENT UP FROM FLOOR DRAIN.

10 4" SANITARY UP FROM WATER CLOSET, REDUCE TO 3" VENT ABOVE FLOOD RIM OF FIXTURE.

11 2" VENT UP FROM CIRUIT VENT FROM TRECH DRAINS.

12 2" VENT FROM OIL INTERCEPTER.

13 PROVIDE 24"x24"x6" CONCRETE PAD AROUND GROUND CLEANOUT. 1

14 4" SANITARY UP TO FLOOR DRAIN.


MOSES ENGINEERS
CONSULTING ENGINEERS
909 Poydras Street, Suite 2150
New Orleans, Louisiana 70112-1034
Tel. 504-586-1725
Fax 855-327-4815

SIZELER THOMPSON BROWN ARCHITECTS
SIZELER THOMPSON BROWN ARCHITECTS
REGIONAL DESIGN GROUP, LLC
300 LAFAYETTE STREET, SUITE 200
NEW ORLEANS, LOUISIANA 70130
(504) 523-6472 FAX (504) 529-1181


Revisions

| No. | Description | Date |
|---|---|---|
| 1 | Addendum #2 | 11/15/2018 |

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

UNDERGROUND PLUMBING PLAN

seal: STATE OF LOUISIANA — CHRISTOPHER DAVID CHAUVIN, REG. NO. 38045, REGISTERED PROFESSIONAL ENGINEER, MECHANICAL ENGINEERING

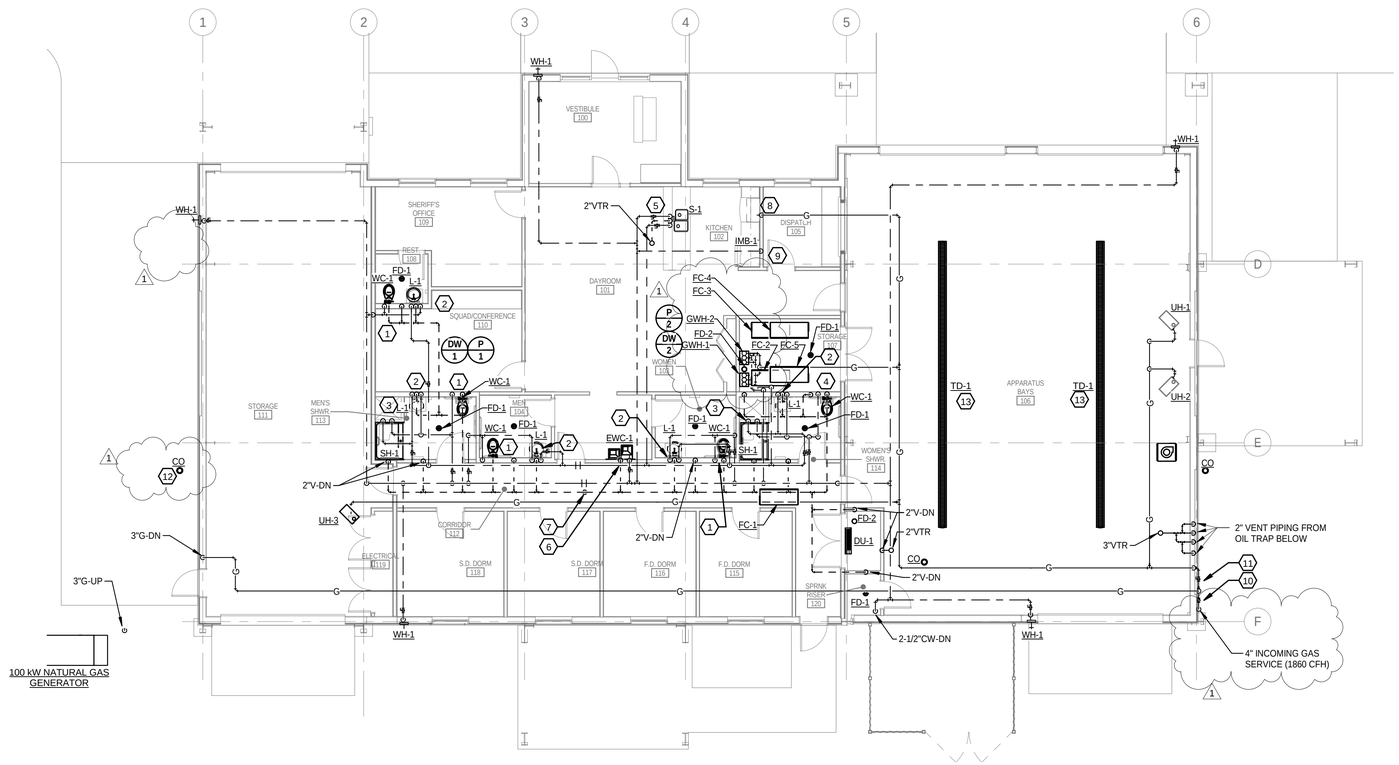
project number: 21238.00

date: OCTOBER 15, 2018

phase: BID DOCUMENTS

drawing number: P201

11/15/2018 11:29:34 AM




1
P202

## PLUMBING PLAN

1/8" = 1'-0"

# SHEET GENERAL NOTES

1. GAS PIPING ABOVE CEILING SHALL BE PLENUM RATED PER INTERNATIONAL BUILDING CODE 2016 EDITION.

2. PROVIDE TRAP GUARDS FOR ALL DRAINS EXCEPT FLOOR DRAIN SERVING RESTROOMS AND TOILET ROOM.

# SHEET REFERENCE NOTES

1 3" VENT AND 1-1/2" CW DOWN TO WATER CLOSET.

2 2" VENT, 3/4" CW AND HW DOWN TO LAVATORY.

3 3/4" CW AND HW DOWN TO SHOWER VALVE.

4 3" VENT AND 1-1/2" CW DOWN TO WATER CLOSET. 2"VENT DOWN TO FLOOR DRAIN

5 2" VENT, 3/4" CW AND HW DOWN TO KITCHEN SINK.

6 2" VENT, 3/4" CW DOWN TO ELECTRIC WATER COOLER.

7 4"VENT UP TO 4" VTR

8 3/4" GAS DOWN TO STOVE. PROVIDE WITH SHUT-OFF, DRIP LEG & FLEXIBLE CONNECTION. FLEXIBLE CONNECTION SHALL BE FULL SIZE AS LINE SIZE

9 3/4"CW DOWN TO ICE MAKER BOX.

10 PROVIDE 3" SHUTT-OFF VALVE WITH METAL JPLACARD STATING "EMERGENCY GENERATOR GAS SUPPLY SHUT-OFF."

11 PROVIDE 1-1/2" SHUT-OFF VALVE WITH METAL PLACARD STATING "BUILDING SUPPLY SHUT-OFF."

12 PROVIDE 24"x24"x6" CONCRETE PAD AROUND GROUND CLEANOUT.

13 COORDINATE FINAL WIDTH AND LENGTH WITH STRUCTURAL OPENING.


MOSES ENGINEERS
CONSULTING ENGINEERS
909 Poydras Street, Suite 2150
New Orleans, Louisiana 70112-1034
Tel. 504-586-1725
Fax 855-327-4815

SIZELER THOMPSON BROWN ARCHITECTS
REGIONAL DESIGN GROUP, LLC
300 LAFAYETTE STREET, SUITE 200
NEW ORLEANS, LOUISIANA 70130
(504) 523-6472 FAX (504) 529-1181


Revisions

| No. | Description | Date |
|---|---|---|
| 1 | Addendum #2 | 11/15/2018 |

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

PLUMBING PLAN

seal: STATE OF LOUISIANA — CHRISTOPHER DAVID CHAUVIN, REG. NO. 38045, REGISTERED PROFESSIONAL ENGINEER — MECHANICAL ENGINEER

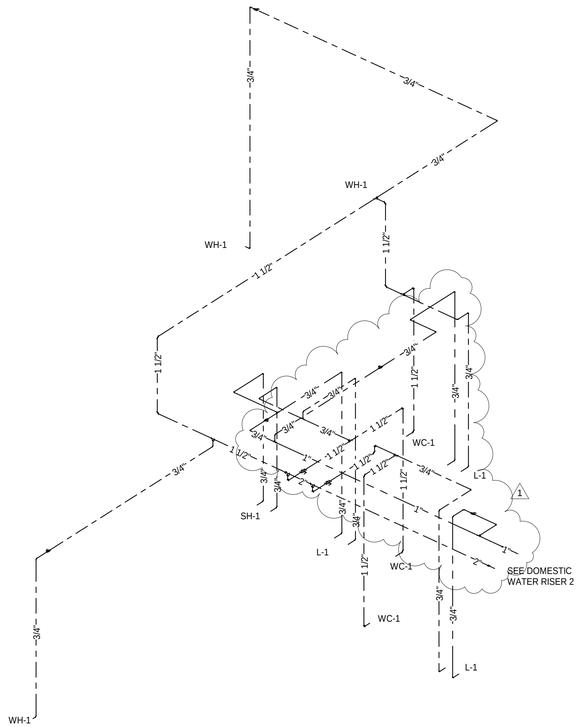
project number: 21238.00

date: OCTOBER 15, 2018

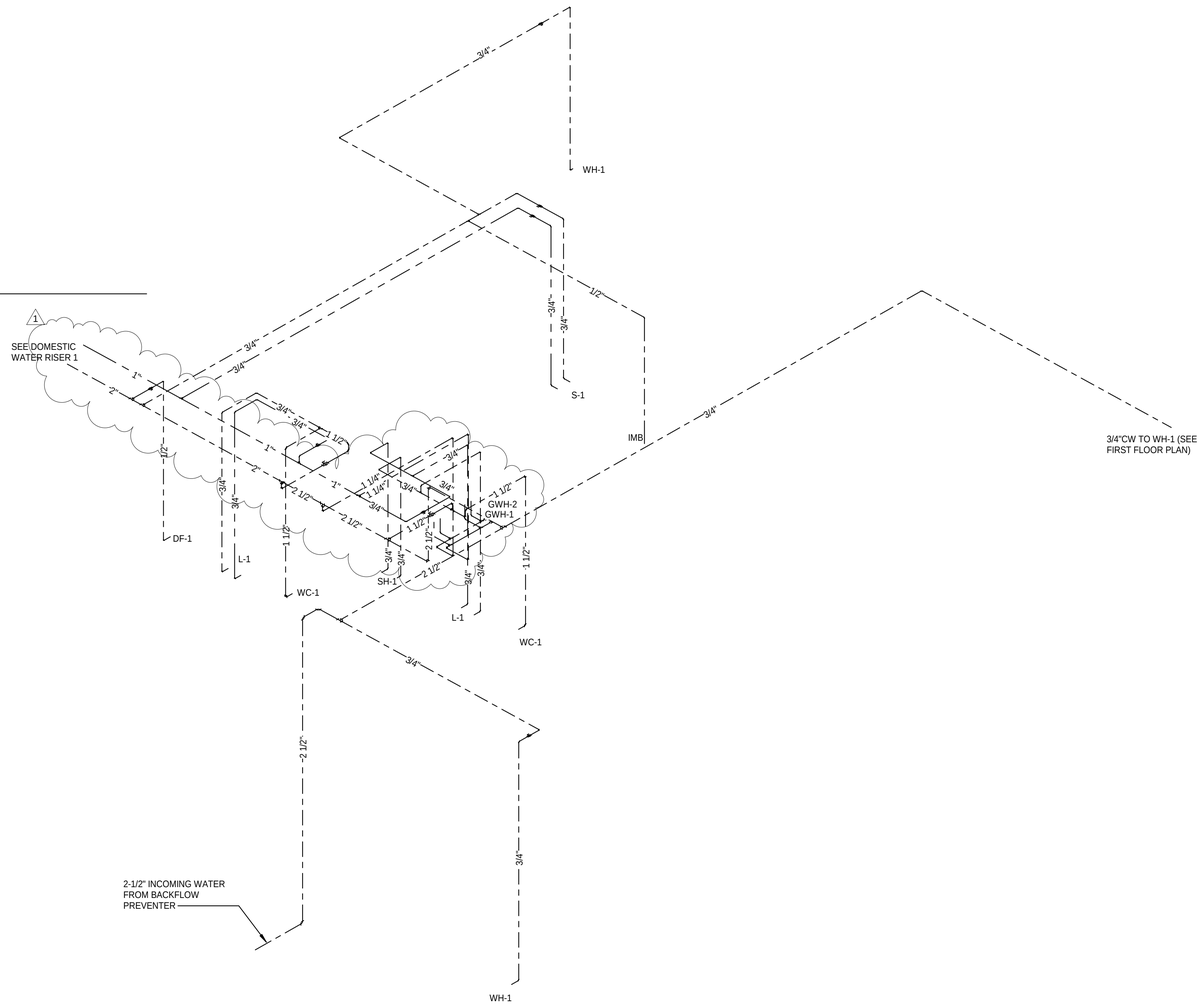
phase: BID DOCUMENTS

drawing number: P202

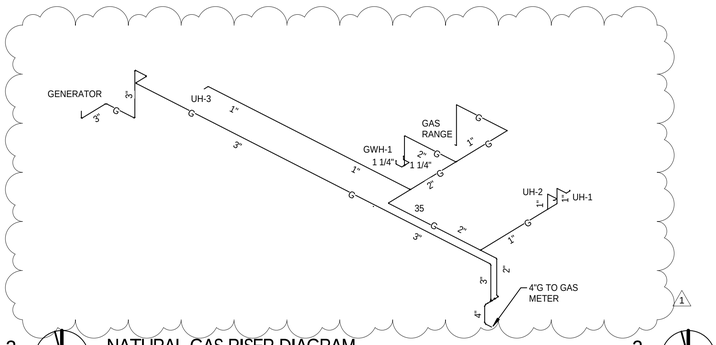
11/15/2018 11:32:46 AM




1 DOMESTIC WATER RISER 1
P401 N.T.S.




2 DOMESTIC WATER RISER 2
P401




3 NATURAL GAS RISER DIAGRAM
P401


MOSES ENGINEERS
CONSULTING ENGINEERS
909 Poydras Street, Suite 2150
New Orleans, Louisiana 70112-1034
Tel. 504-586-1725
Fax 855-327-4815

SIZELER THOMPSON BROWN ARCHITECTS
SIZELER THOMPSON BROWN ARCHITECTS
REGIONAL DESIGN GROUP, LLC
300 LAFAYETTE STREET, SUITE 200
NEW ORLEANS, LOUISIANA 70130
(504) 523-6472 FAX (504) 529-1181


Revisions

| No. | Description | Date |
|---|---|---|
| 1 | Addendum #2 | 11/15/2018 |

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

RISER DIAGRAMS - DOMESTIC WATER & NATURAL GAS DIAGRAM

seal: STATE OF LOUISIANA — CHRISTOPHER DAVID CHAUVIN, REG. NO. 38045, REGISTERED PROFESSIONAL ENGINEER IN MECHANICAL ENGINEERING

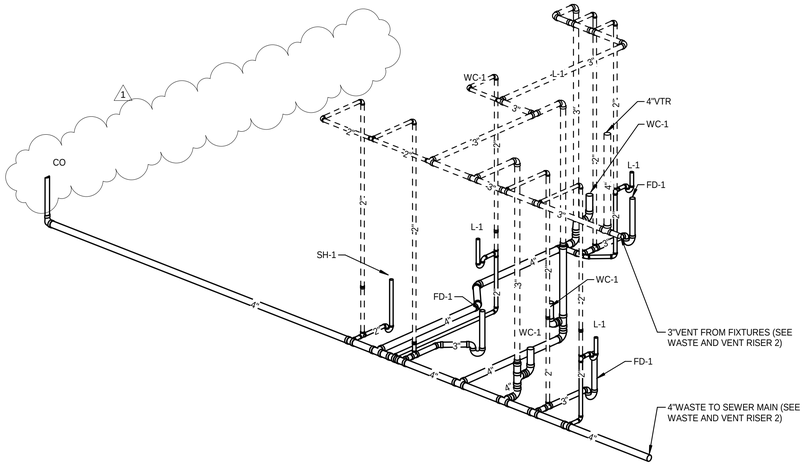
project number: 21238.00

date: OCTOBER 15, 2018

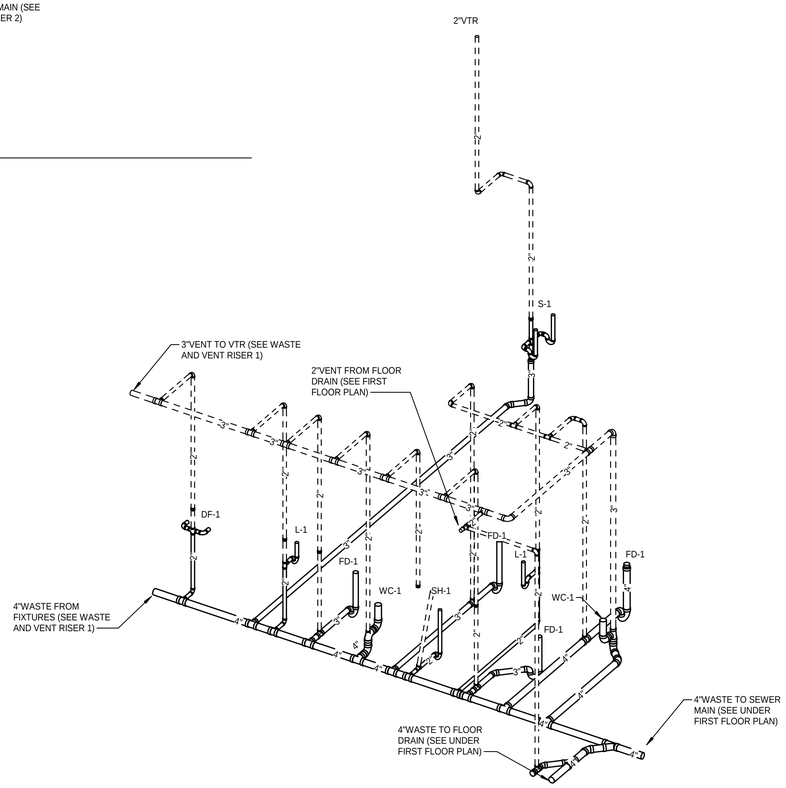
phase: BID DOCUMENTS

drawing number: P401

11/15/2018 11:32:59 AM




1 P402 WASTE & VENT RISER DIAGRAM 1




2 P402 WASTE & VENT RISER DIAGRAM 2


MOSES ENGINEERS
CONSULTING ENGINEERS
909 Poydras Street, Suite 2150
New Orleans, Louisiana 70112-1034
Tel. 504-586-1725
Fax 855-327-4815

SIZELER THOMPSON BROWN ARCHITECTS
SIZELER THOMPSON BROWN ARCHITECTS
REGIONAL DESIGN GROUP, LLC
300 LAFAYETTE STREET, SUITE 200
NEW ORLEANS, LOUISIANA 70130
(504) 523-6472 FAX (504) 529-1181


Revisions

| No. | Description | Date |
|---|---|---|
| 1 | Addendum #2 | 11/15/2018 |

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

RISER DIAGRAMS - WASTE AND VENT

seal: STATE OF LOUISIANA — CHRISTOPHER DAVID CHAUVIN, REG. NO. 38045, REGISTERED PROFESSIONAL ENGINEER, MECHANICAL ENGINEER

project number: 21238.00

date: OCTOBER 15, 2018

phase: BID DOCUMENTS

drawing number: P402

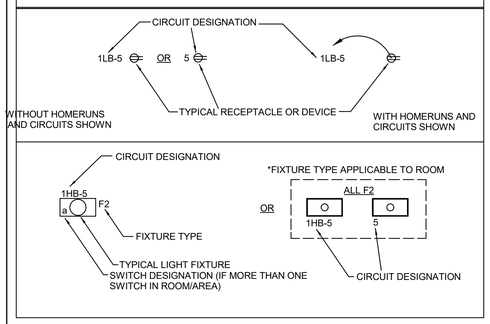
11/15/2018 10:46:47 AM

# STANDARD ABBREVIATIONS

| | | | |
|---|---|---|---|
| A | AMPERES | JB, J-BOX | JUNCTION BOX |
| AC | ABOVE COUNTER | KCM | THOUSAND CIRCULAR MILS |
| AFF | ABOVE FINISHED FLOOR | KV | KILOVOLT |
| AFG | ABOVE FINISHED GRADE | KVA | KILO VOLT-AMPERE |
| AHJ | AUTHORITY HAVING JURISDICITION | LCP | LIGHTING CONTROL PANEL |
| AHU | AIR HANDLING UNIT | MCB | MAIN CIRCUIT BREAKER |
| ATS | AUTOMATIC TRANSFER SWITCH | MCC | MOTOR CONTROL CENTER |
| AWG | AMERICAN WIRE GAUGE | MDS | MAIN DISTRIBUTION SYSTEM |
| BAS | BUILDING AUTOMATION SYSTEM | MLO | MAIN LUGS ONLY |
| C | CONDUIT | MW | MICROWAVE |
| CATV | CABLE TELEVISION | N | NEUTRAL |
| cd | CANDELA RATING | NC | NORMALLY CLOSED |
| CB | CIRCUIT BREAKER | NIC | NOT IN CONTRACT |
| CCTV | CLOSED CIRCUIT TELEVISION | NL | NIGHT LIGHT |
| CKT | CIRCUIT | NO | NORMALLY OPEN |
| CU | COPPER | NTS | NOT TO SCALE |
| CLG | CEILING | ∅, PH | PHASE |
| dBA | DECIBEL LEVEL | P | POLE OR PHASE |
| DW | DISHWASHER | PB | PULLBOX |
| DWG | DRAWING | PNL | PANEL |
| EC | ELECTRICAL CONTRACTOR | RECEPT | RECEPTACLE |
| EF | EXHAUST FAN | REF | REFRIGERATOR |
| EM | EMERGENCY | TTB | TELECOMMUNICATIONS TERMINAL BOARD |
| EUH | ELECTRIC UNIT HEATER | | |
| EWC | ELECTRIC WATER COOLER | TYP | TYPICAL |
| FA | FIRE ALARM | UC | UNDER COUNTER |
| FAA | FIRE ALARM ANNUNCIATOR | UH | UNIT HEATER |
| FACP | FIRE ALARM CONTROL PANEL | UON | UNLESS OTHERWISE NOTED |
| FCU | FAN COIL UNIT | UPS | UNINTERRUPTIBLE POWER SUPPLY |
| G | GROUND | V | VOLTS |
| GFI | GROUND FAULT INTERRUPTER | VAV | VARIABLE AIR VOLUME BOX |
| HOA | HAND-OFF-AUTOMATIC | VFD | VARIABLE FREQUENCY DRIVE |
| HP | HORSEPOWER | W | WATTS, WIRES |
| IG | ISOLATED GROUND | WH | WATER HEATER |
| | | WAP | WIRELESS ACCESS POINT |
| | | WP | WEATHERPROOF |

NOTE: SOME ABBREVIATIONS MAY NOT BE USED.

# CIRCUIT AND TYPE DESIGNATIONS




# ELECTRICAL SYMBOLS (CONTINUED)

NOTES:
1. THIS IS A TYPICAL SCHEDULE, SOME SYMBOLS MAY NOT BE USED.
2. ALL OUTLETS AND ELECTRICAL EQUIPMENT ARE SHOWN APPROXIMATELY LOCATED. FOR ALL MEASUREMENTS USE ARCHITECTURAL PLANS.
3. REGARDING ALL LIGHTING FIXTURES, REFER TO LIGHTING FIXTURE SCHEDULE FOR EXACT REQUIREMENTS.

| SYMBOL | DESCRIPTION |
|---|---|
| **LIGHTING** | |
| | SURFACE, RECESSED, OR WALL MOUNTED LIGHTING FIXTURE CONNECTED TO NORMAL BRANCH CIRCUIT |
| | SURFACE, RECESSED, OR WALL MOUNTED LIGHTING FIXTURE WITH BATTERY PACK CONNECTED TO NORMAL BRANCH CIRCUIT AHEAD OF SWITCHING OR CONNECTED TO LIFE SAFETY BRANCH CIRCUIT |
| | CEILING MOUNTED, WALL WASHER |
| CEILING / WALL | CEILING OR WALL MOUNTED EXIT SIGN, SHADED AREA INDICATES FACE, ARROWS INDICATE EXIT DIRECTION |
| | TRACK LIGHTING, LENGTH AS SHOWN ON DRAWINGS, QUANTITY OF HEADS AS SHOWN ON DRAWINGS |
| | EXTERIOR POLE MOUNTED LIGHTING FIXTURE |
| | EXTERIOR POLE MOUNTED LIGHTING FIXTURE (WITH DUAL HEADS) |
| | EXTERIOR LIGHTING FIXTURE, POST TOP MOUNTED OR BOLLARD |
| | EMERGENCY BATTERY PACK UNIT |
| | COMBINATION EXIT/ EMERGENCY BATTERY PACK UNIT |
| **LIGHT FIXTURE MODIFIERS** | |
| Fxx | DESIGNATOR BEGINNING WITH THE LETTER 'F' INDICATES FIXTURE TYPE - SEE SCHEDULE |
| a,b,c,d | LOWERCASE LETTER DESIGNATES FIXTURE CONTROL OR SWITCHING GROUP |
| EM | EMERGENCY FIXTURE |
| NL | NIGHT LIGHT FIXTURE - TO REMAIN ON ALWAYS |
| PE | PHOTOELECTRIC SWITCH |
| DS | DAYLIGHT DIMMING SENSOR |
| | MOTION DETECTING AUTOMATIC WALL SWITCH, SINGLE POLE |
| 2 | MOTION DETECTING AUTOMATIC WALL SWITCH, DUAL RELAYS FOR SWITCHING TWO LOADS INDEPENDENTLY |
| D | MOTION DETECTING AUTOMATIC WALL DIMMER SWITCH |
| | WALL MOUNTED MOTION SENSOR - LOW VOLTAGE W/ POWER PACK |
| | CEILING-CORNER MOUNTED MOTION SENSOR LOW VOLTAGE W/ POWER PACK |
| OS | CEILING MOUNTED MOTION SENSOR - LOW VOLTAGE W/ POWER PACK |
| $ S | SINGLE POLE SNAP SWITCH |
| LC | MULTI-POLE LIGHTING CONTACTOR |
| LCP | LIGHTING CONTROL PANEL |
| **SWITCH MODIFIERS** | |
| 2 | DOUBLE POLE - CENTER OFF |
| 3 | THREE WAY |
| 4 | FOUR WAY |
| K | KEY OPERATED |
| P | PILOT LIGHT |
| MC | MOMENTARY CONTACT |
| M | MANUAL MOTOR STARTER |
| LV | LOW VOLTAGE CONTROL SWITCH |
| AC | ABOVE COUNTER |
| UC | UNDER COUNTER |
| D | DIMMER SWITCH |
| WP | WEATHER PROOF |
| **POWER** | |
| | EXISTING UTILITY POLE |
| | NEW UTILITY POLE |
| | DISTRIBUTION PANELBOARD OR SWITCHBOARD |
| RECESSED / SURFACE | PANELBOARD |
| RECESSED / SURFACE | SPECIAL CABINET |
| | MULTI-OUTLET ASSEMBLY |
| | GROUND |
| | MOTOR |
| J | COMBINATION MOTOR STARTER & DISCONNECT SWITCH |
| | MAGNETIC MOTOR STARTER |
| B | ENCLOSED CIRCUIT BREAKER |
| ATS | AUTOMATIC TRANSFER SWITCH |
| J | DISCONNECT SWITCH |
| 60/3/40F/N3R | DISCONNECT SWITCH: RATING / POLES / FUSE RATING / NEMA TYPE (NF = NON-FUSED) |

# ELECTRICAL SYMBOLS (CONTINUED)

| SYMBOL | DESCRIPTION |
|---|---|
| **POWER (CONT'D.)** | |
| J | JUNCTION BOX WITH COVER, MOUNTED ABOVE CEILING OR FLUSH IN FINISHED CEILING UNLESS INDICATED OTHERWISE. SIZE PER NEC |
| J | WALL MOUNTED JUNCTION BOX WITH COVER, MOUNTED FLUSH IN FINISHED SPACES OR SURFACE IN UNFINISHED SPACES, UNLESS INDICATED OTHERWISE. SIZE PER NEC |
| | FLOOR SURFACE/PEDESTAL MOUNTED JUNCTION BOX. SEE DETAIL. |
| | SIMPLEX RECEPTACLE 20 AMP, 120V, GROUNDING TYPE |
| | SIMPLEX RECEPTACLE 20 AMP, 120V, GROUNDING TYPE CEILING MOUNTED |
| | SIMPLEX RECEPTACLE 20 AMP, 120V, GROUNDING TYPE, FLOOR MOUNTED |
| | DUPLEX RECEPTACLE 20 AMP, 120V, GROUNDING TYPE |
| | DUPLEX RECEPTACLE 20 AMP, 120V, GROUNDING TYPE, CEILING MOUNTED |
| | DUPLEX RECEPTACLE 20 AMP, 120V, GROUNDING TYPE, FLOOR MOUNTED |
| | QUADRAPLEX RECEPTACLE 20A, 120V, GROUNDING TYPE |
| | QUADRAPLEX RECEPTACLE, 20A, 120V, GROUNDING TYPE, CEILING MOUNTED |
| | QUADRAPLEX RECEPTACLE, 20A, 120V, GROUNDING TYPE, FLOOR MOUNTED |
| | RECEPTACLE & COMMUNICATIONS COMBINATION FLOOR BOX - TYPICAL |
| | RECEPTACLE, 250V, GROUNDING TYPE (SUBSCRIPT INDICATES AMPERAGE) |
| | RECEPTACLE, 120V, GROUNDING TYPE (SUBSCRIPT INDICATES AMPERAGE) |
| | DUPLEX RECEPTACLE, 20 AMP, 120V GFI TYPE (GROUND FAULT INTERRUPTER) |
| **RECEPTACLE AND JUNCTION BOX MODIFIERS** | |
| AC | ABOVE COUNTER |
| UC | UNDER COUNTER |
| IG | ISOLATED GROUNDING TYPE |
| EWC | ELECTRIC WATER COOLER |
| WP | WEATHER PROOF - WET-WHILE-IN-USE |
| ##A | DESIGNATES AMPERE RATING |
| TR | REQUIRED |
| HD | TAMPER RESISTANT |
| AV | ELECTRIC HAND DRYER |
| CR | AV SYSTEM JUNCTION BOX |
| DOOR | CORD REEL WITH RECEPT AS INDICATED DOOR ACCESS CONTROLLER |
| TV | MOUNTED AT TELEVISION ELEVATION |
| U | RECEPTACLE WITH INTEGRAL USB CHARGING PORT |
| MW | MICROWAVE RECEPTACLE |
| SD | SINK DISPOSAL |
| DW | DISHWASHER |
| REF | REFRIGERATOR |
| FSD | FIRE SMOKE DAMPER |
| OH | OVERHEAD DOOR |
| **TELECOMMUNICATIONS** | |
| | DATA OUTLET - WALL MOUNTED |
| | VOICE/DATA OUTLET - WALL MOUNTED |
| | VOICE (TELEPHONE) OUTLET |
| | CEILING MOUNTED COMMUNICATIONS OUTLET |
| | FLOOR MOUNTED COMMUNICATIONS OUTLET |
| WAP | WIRELESS ACCESS POINT, PROVIDE TWO RJ45 CONNECTIONS |
| | POWER/ DATA POLE |
| | CABLE T.V. OUTLET |
| | TELECOMMUNICATIONS BACKBOARD |
| NR | NETWORK RACK |
| **TELECOMMUNICATIONS OUTLET MODIFIERS** | |
| # | PROVIDE QUANTITY OF RJ45 CONNECTIONS INDICATED BY #. DEFAULT OF (1) RJ-45 CONNECTION. REFER TO TELECOMMUNICATIONS OUTLET DETAILS |
| AC | ABOVE COUNTER |
| C | FOR FUTURE CAMERA |
| UC | UNDER COUNTER |
| AV | AV DATA OUTLET, DEFAULT OF (1) RJ-45 CONNECTION |
| AVI | AUDIO/VIDEO INPUT STATION |
| AVO | AUDIO/VIDEO OUTPUT STATION |
| **FIRE ALARM** | |
| FACP | FIRE ALARM CONTROL PANEL |
| ANN | FIRE ALARM ANNUNCIATOR PANEL |
| F | MANUAL PULL STATION |
| | SMOKE DETECTOR |
| | WALL MOUNTED SMOKE DETECTOR |
| T | THERMAL / HEAT DETECTOR |
| T | WALL MOUNTED THERMAL / HEAT DETECTOR |
| D | DUCT MOUNTED SMOKE DETECTOR |
| CM | CARBON MONOXIDE DETECTOR |
| S | SMOKE DETECTOR WITH SOUNDER BASE - RESIDENTIAL USE |
| C/S | SMOKE & CARBON MONOXIDE DETECTOR |
| C/S S | SMOKE & CARBON MONOXIDE DETECTOR WITH SOUNDER BASE |

# ELECTRICAL SYMBOLS (CONTINUED)

| SYMBOL | DESCRIPTION |
|---|---|
| **FIRE ALARM (CONT'D.)** | |
| F WALL / F CEILING | AUDIBLE/VISUAL NOTIFICATION APPLIANCE (4" SQUARE BOX WITH 2-GANG RING), CANDELA OF STROBE, AS NOTED IN cd. |
| F cd WALL / F cd CEILING | VISUAL NOTIFICATION APPLIANCE (4" SQUARE BOX WITH 2-GANG RING), CANDELA OF STROBE, AS NOTED IN cd. |
| WALL / CEILING | AUDIO NOTIFICATION APPLIANCE (4" SQUARE BOX WITH 2-GANG RING). |
| R | REMOTE INDICATOR |
| M | MONITOR MODULE |
| PIV | POST INDICATOR VALVE |
| | MAGNETIC DOOR HOLDER |
| FL | SPRINKLER FLOW SWITCH |
| TS | SPRINKLER TAMPER SWITCH |
| C | CONTROL MODULE |
| ARMS / ARRS | AREA OF REFUGE MASTER / REMOTE STATION |
| 2WM / 2WR | EMERGENCY 2-WAY COMMUNICATION MASTER / REMOTE STATION |
| GRA | GENERATOR REMOTE ANNUNCIATOR CONTROL PANEL |
| **MISCELLANEOUS** | |
| | CCTV CAMERA - CEILING MOUNT |
| | CCTV CAMERA - WALL MOUNT |
| WP | CCTV CAMERA - WALL MOUNT EXTERIOR |
| | INTRUSION SYSTEM MOTION DETECTOR, CEILING MUONTED |
| | INTRUSION MOTION DETECTOR/PIR - CEILING CORNER/WALL MOUNT |
| K | INTRUSION SYSTEM CONTROL KEYPAD |
| | INTRUSION SYSTEM. GLASS BREAK DETECTOR |
| IDP | INTRUSION DETECTION SYSTEM CONTROL PANEL |
| R | DOOR ACCESS SYSTEM CARD READER |
| DC | DOOR CONTACT |
| EL | ELECTRIFIED DOOR STRIKE |
| MS | DOOR ACCESS SYSTEM MOTION SENSOR |
| | DOOR ACCESS SYSTEM PUSH BUTTON |
| DAP | DOOR ACCESS SYSTEM CONTROL PANEL |
| | ADA AUTOMATIC DOOR OPENER PUSH BUTTON |
| DCC | MOTORIZED OVERHEAD DOOR CONTROLLER CONSOLE |
| D | MOTORIZED DOOR CONTROL SYSTEM NOTIFICATION STROBE |
| E | EMERGENCY ALARM INITIATING DEVICE |
| IC | MAIN INTERCOM EQUIPMENT RACK |
| $ IC | CALL-IN SWITCH, PUSHBUTTON |
| IC | INTERCOM TELEPHONE OUTLET |
| S | SOUND REINFORCEMENT SYSTEM CEILING RECESSED SPEAKER |
| S | SOUND REINFORCEMENT SYSTEM WALL LOUDSPEAKER |
| P | INTERCOM/PAGING SYSTEM SPEAKER CEILING RECESSED SPEAKER |
| P | INTERCOM/PAGING SPEAKER SYSTEM WALL LOUDSPEAKER |
| V | INTERCOM SPEAKER VOLUME CONTROL |
| MIC | MICROPHONE JACK |
| | **CIRCUITRY** |
| | HOMERUN TO PANELBOARD, QUANTITY OF ARROWS INDICATES NUMBER OF CIRCUITS. |
| | CONDUIT CONCEALED OVERHEAD IN FURRED CEILING, IN CEILING SLAB OR IN WALLS |
| | CONDUIT EXPOSED |
| | CONDUIT BELOW GRADE OR CONCEALED IN SLAB |
| OH | OVERHEAD WIRING IN CONDUIT - SITE WORK |
| | CONDUIT TURNED UP |
| | CONDUIT TURNED DOWN |
| | CONDUIT STUB OUT |
| 1,3 or 1,3,5 | GROUPED HOMERUN WITH SHARED NEUTRAL |
| 2/4, 2/4/6 | MULTIPOLE HOMERUN, CONDUCTORS AS REQUIRED BY EQUIPMENT |
| | TICKS MARK: NUMBERS OF HOT WIRE AND ONE NEUTRAL |


MOSES ENGINEERS
CONSULTING ENGINEERS
909 Poydras Street, Suite 2150
New Orleans, Louisiana 70112-1034
Tel. 504-586-1725
Fax 855-327-4815

SIZELER THOMPSON BROWN ARCHITECTS
SIZELER THOMPSON BROWN ARCHITECTS
REGIONAL DESIGN GROUP, LLC
300 LAFAYETTE STREET, SUITE 200
NEW ORLEANS, LOUISIANA 70130
(504) 523-6472 FAX (504) 529-1181


Revisions

| No. | Description | Date |
|---|---|---|
| 1 | Addendum #2 | 11/15/2018 |

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

ELECTRICAL SYMBOLS

seal: STATE OF LOUISIANA — JEFFERY LAMBERT, License No. 37172, PROFESSIONAL ENGINEER

| project number | drawing number |
|---|---|
| 21238.00 | E001 |
| date: OCTOBER 15, 2018 | |
| phase: BID DOCUMENTS | |

11/15/2018 10:48:14 AM

## LIGHTNING PROTECTION **GENERAL NOTES**

1. CONTRACTOR SHALL PROVIDE COMPLETE BUILDING LIGHTNING PROTECTION SYSTEM PER SECTION 265113 OF THE SPECIFICATIONS. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS, AND LABOR NECESSARY FOR A COMPLETE INSTALLATION INCLUDING ALL NECESSARY AND REQUIRED HARDWARE, RACEWAY SYSTEMS, CABLING, CIRCUITRY, BONDING, GROUNDING, ETC.
2. THE LIGHTNING PROTECTION SYSTEM INSTALLATION SHALL COMPLY WITH ALL APPLICABLE CODES AND STANDARDS, IN PARTICULAR:
   a. UNDERWRITERS LABORATORIES STANDARD 96A,
   b. NFPA 780,STANDARD FOR THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS,
   c. UL 96A, STANDARD FOR SAFETY INSTALLATION REQUIREMENTS FOR LIGHTNING PROTECTION SYSTEM
   d. LIGHTNING PROTECTION INSTITUTE 175, STANDARD FOR THE DESIGN, INSTALLATION,INSPECTION OF LIGHTNING PROTECTION SYSTEMS
3. IN GENERAL MOUNT AIR TERMINALS WITHIN 2'-0" OF OUTSIDE BUILDING EDGE, AND RIDGE ENDS. AIR TERMINAL SHOULD PROJECT 10" ABOVE OBJECT PROTECTED.
4. AIR TERMINALS SHALL BE SPACED NO MORE THAN 20'-0" ALONG THE ROOF PERIMETER.
5. MAINTAIN DOWNWARD AND HORIZONTAL COURSING OF MAIN CONDUCTOR CABLE, NO BEND OF A CONDUCTOR SHALL FORM A FINAL INCLUDED ANGLE OF LESS THAN 90° NOR SHALL HAVE A RADIUS OF LESS THAN 8".
6. INTERCONNECT LIGHTNING PROTECTION GROUND WITH OTHER BUILDING GROUND SYSTEMS AS REQUIRED BY CODES. ELECTRIC SERVICE ENTRANCE GROUNDING SHALL BE INTERCONNECTED TO THE LIGHTNING PROTECTION GROUND CONNECTION SYSTEM.
7. GROUND ELECTRODES SHALL IN NO INSTANCE BE INSTALLED LESS THAN 1'-0" BELOW GRADE AND 2'-0" FROM FOUNDATION WALL. ELECTRODES SHALL PENETRATE EARTH AT LEAST 10'-0".
8. CONNECTIONS TO GROUND ROD SHALL BE MADE AT A POINT NOT LESS THAN 1'-0" BELOW GRADE.
9. GROUND ALL METAL EQUIPMENT/COMPONENTS LOCATED ON THE ROOF, SUCH AS ROOF DRAINS, EXHAUST FANS,LADDERS, CABLE TRAY, ETC., AND ROOF FLASHING. ALL SUCH COMPONENTS TO BE BONDED TO THE LIGHTNING CONDUCTOR SYSTEM, IN PARTICULAR BOND ALL GUTTERS, FLASHING, ETC. TO PREVENT SIDE FLASH.
10. BOND ALL METALLIC PIPES INCLUDING DOMESTIC WATER, FIREWATER, GAS, SEWER, ETC. AT THE SERVCIE ENTRANCE TO THE BUILDING, TO THE NEAREST DOWN LEAD.
11. THE LIGHTNING PROTECTION SYSTEM SHALL BE INSTALLED IN A NEAT, WORKMANLIKE AND INCONSPICUOUS MANNER SO THAT ALL COMPONENTS WILL BLEND WITH THE GENERAL LINES AND APPEARANCE OF THE BUILDING.
12. IN GENERAL, ALL CONDUCTORS TO BE INTERCONNECTED TO FORM A TWO-WAY PATH FROM EACH AIR TERMINAL HORIZONTALLY OR DOWNWARD TO CONNECTIONS WITH GROUND TERMINALS.
13. ALL LIGHTNING PROTECTION CONDUCTORS SHALL BE ATTACHED WITH A MAXIMUM ATTACHMENT SPACING OF 36".
14. BARE COPPER LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON ALUMINUM SURFACES. CONTRACTOR IS RESPONSIBLE TO ASSURE THAT ALL LIGHTNING PROTECTION MATERIALS ARE COMPATIBLE WITH EACH OTHER AND SURFACES ATTACHED TO.
15. LIGHTNING ARRESTERS TO BE PROVIDED ON ELECTRICAL AND COMMUNICATION SYSTEMS SERVICE ENTRANCE EQUIPMENT.
16. DOWN LEAD CONDUCTORS SHALL NOT BE LOCATED EXPOSED OR ON EXTERIOR OF BUILDING.

## TELECOMMUNICATION GENERAL NOTES

1. SEE IT SPECIFICATIONS FOR DETAILS OF THE IT INFRASTRUCTURE.
2. WORK TO INCLUDE (BUT NOT BE LIMITED TO) ALL CABLING, TERMINATIONS, TESTING & CERTIFICATION, CABLE TRAY SYSTEM, IT ROOMS, COPPER AND FIBER CABLES.
3. ALL COPPER DATA LINES SHALL BE TERMINATED ON ONE END IN A RJ-45 TYPE RECEPTACLE AS SHOWN ON DRAWINGS AND THE OTHER END SHALL BE IN A RACK-MOUNTED PATCH PANEL LOCATED IN THE NEAREST IT ROOMS. LENGTHS & MATERIALS SHALL ADHERE TO SPECIFICATIONS. DATA CABLING SHALL BE CAT6A TYPE. IN NO CASE SHALL ANY DATA CABLE LENGTH FROM PATCH PANEL TO RJ45 RECEPTACLE EXCEED 295 FEET.
4. ALL FIBER CABLING SHALL RUN FROM THE COMMUNICATIONS DEMARC ROOM TO THE RACK(S) INDICATED ON DRAWINGS AND SHALL BE PROPERLY TERMINATED IN FIBER PATCH PANELS ON BOTH ENDS. ALL MATERIALS SHALL ADHERE TO SPECIFICATIONS.
5. ALL PATCH PANELS & RACKS SHALL HAVE ENOUGH CAPACITY TO ALLOW FOR 50% FACTOR.
6. RACKS & CABLE TRAY SYSTEMS SHALL BE MOUNTED IN ALL IT ROOMS AS SHOWN ON PLANS.
7. ALL LOW-VOLTAGE CABLES TO BE RUN IN CONDUIT TO ABOVE ACCESSIBLE CEILINGS THEN SUPPORTED VIA J-HOOKS AT 4 FT INTERVALS (EIA/TIA 569) TO NEAREST CABLE TRAY OR TELECOMM ROOM AS APPLICABLE.
8. ALL CABLE TRAYS TO BE LOCATED ABOVE ACCESSIBLE CEILING WITH MAXIMUM OF 10' DISTANCE BETWEEN ACCESS POINTS. COORDINATE WITH ARCHITECT AND REFLECTED CEILING PLANS. PROVIDE CONDUIT SLEEVES THROUGH RATED PARTITIONS.
9. RUN CAT6 CABLES IN MINIMUM 3/4" CONDUIT TO THE NEAREST CABLE TRAY:
   - FOR 8 CABLES, USE 1-1/4" CONDUIT.
   - FOR 4 CABLES, USE 1" CONDUIT.
   - FOR 2 CABLES, USE 3/4" CONDUIT.
10. THE MINIMUM DATA RECEPTACLE INCLUDING WIRELESS ACCESS-POINTS (WAP'S) AND CAMERA LOCATIONS IS A DUAL RJ-45 WITH (2) CAT6 CABLES RUNNING TO THE NEAREST TR.
11. ALL WIRELESS ACCESS POINT TERMINATIONS TO BE INSTALLED ABOVE CEILING WHERE POSSIBLE. COORDINATE WITH OWNER/ARCHITECT.
12. ALL WIRELESS ACCESS POINTS (WAP'S) AND CAMERA LOCATIONS TO BE POWER OVER ETHERNET (POE).

## SPECIAL SYSTEMS GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE RACEWAY SYSTEMS, CABLING AND GROUNDING NECESSARY FOR A COMPLETE INSTALLATION OF THE PAGING/INTERCOM. REFER TO PLANS FOR QUANTITIES, LOCATIONS AND CABLING DETAILS.
2. ROUTE ALL CABLING IN ¾" EMT (MIN.) UNLESS STATED OTHERWISE.
3. PROVIDE DEDICATED PATCH PANELS AND/OR DISTRIBUTION TERMINAL BLOCKS TO ESTABLISH CLEAR SEPARATION FROM OTHER SYSTEMS.
4. VERIFY MOUNTING HEIGHTS WITH ARCHITECT.

## TYPICAL MOUNTING HEIGHTS

THE CONTRACTOR SHALL COORDINATE THE MOUNTING HEIGHT OF ALL FIXTURES, DEVICES, AND OUTLETS WITH ALL DRAWINGS. SPECIAL MOUNTING HEIGHTS SHOWN ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THOSE GIVEN BELOW. ALL MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTERLINE OF DEVICE, UNLESS NOTED OTHERWISE.

| | | |
|---|---|---|
| SWITCHES | WALL SWITCHES AND DIMMERS<br>MANUAL MOTOR STARTERS | 4'-0"<br>4'-0" |
| RECEPTACLES | WALL<br>ABOVE COUNTER WITHOUT BACKSPLASH<br>ABOVE COUNTER WITH BACKSPLASH | 1'-6"<br>0'-8" ABOVE TOP OF COUNTER<br>0'-4" ABOVE TOP OF BACKSPLASH |
| MULTIOUTLET RACEWAY | WALL<br>ABOVE COUNTER WITHOUT BACKSPLASH<br>ABOVE COUNTER WITH BACKSPLASH | 3'-0"<br>0'-8" ABOVE TOP OF COUNTER<br>0'-4" ABOVE TOP OF BACKSPLASH |
| TELEPHONE | DESK/TABLE<br>WALL TELEPHONE<br>ABOVE COUNTER WITHOUT BACKSPLASH<br>ABOVE COUNTER WITH BACKSPLASH | 1'-6"<br>4'-8"<br>0'-8" ABOVE TOP OF COUNTER<br>0'-4" ABOVE TOP OF BACKSPLASH |
| DATA OUTLETS | WALL<br>ABOVE COUNTER WITHOUT BACKSPLASH<br>ABOVE COUNTER WITH BACKSPLASH | 1'-6"<br>0'-8" ABOVE TOP OF COUNTER<br>0'-4" ABOVE TOP OF BACKSPLASH |
| ELECTRICAL EQUIPMENT | SAFETY SWITCH<br>MOTOR STARTER<br>PANELBOARD<br>COMMUNICATIONS CABINET | 6'-6" TO TOP OF ENCLOSURE<br>6'-6" TO TOP OF ENCLOSURE<br>6'-6" TO TOP OF ENCLOSURE<br>6'-6" TO TOP OF ENCLOSURE |
| TV CABLE OUTLET | WALL<br>WALL BRACKET | 1'-6"<br>CENTERLINE OF BRACKET |
| CONTROL/ SECURITY | DOOR ALARM<br>PUSHBUTTON<br>DOOR ACCESS KEYPAD | 4'-0"<br>4'-0"<br>4'-0" |

## LIGHTING FIXTURE SCHEDULE

| MARK | MANUFACTURER | CATALOG NUMBER | DESCRIPTION | MOUNTING | LAMP WATTS | LAMP TYPE |
|---|---|---|---|---|---|---|
| F1 | METALUX | 22CZ-LD4-39-UNV-L835-CD1-U | 2'x2' VOLUMETRIC LED TROFFER, HIGH PERFORMANCE, LOW GLARE OPTICS, 0-10V DIMMING DRIVER | CEILING RECESSED | 40W | LED, 3500K, 4000 LUMENS |
| F2 | METALUX | 24CZ-LD4-75-S-UNV-L835-CD1-U | 2'x4' VOLUMETRIC LED TROFFER, HIGH PERFORMANCE, LOW GLARE OPTICS, 0-10V DIMMING DRIVER | CEILING RECESSED | 75W | LED, 3500K, 7500 LUMENS |
| F3 | HALO | LA4069351EWH, H245ICAT | 4" LED ADJUSTABLE DOWNLIGHT, MEDIUM BEAM, WHITE REFLECTOR, ELV DIMMABLE | CEILING RECESSED | 8W | LED, 3500K, 600 LUMENS |
| F4 | HALO | SMD6R12935WH | 6" SURFACE MOUNTED DOWNLIGHT, LOW-GLARE LENS, WHITE HOUSING | CEIILING SURACE | 15W | LED, 3500K, 1200 LUM |
| F5 | HALO | PD620ED010 PDM6835 64VW | 6" LED DOWNLIGHT, 1500 LUMEN, MEDIUM BEAM, SPECULAR CLEAR REFLECTOR, 0-10V DIM | CEILING RECESSED | 15W | LED, 3500K, 1500 LUMENS |
| F6 | HALO | PD630ED010 PDM6835 64VW | 6" LED DOWNLIGHT, 3000 LUMEN, MEDIUM BEAM, SPECULAR CLEAR REFLECTOR, 0-10V DIM | CEILING RECESSED | 30W | LED, 3500K, 3000 LUM |
| F7 | METALUX | 8LBLED-LD4-22-SYMW-UNV-L840-CD4-SCF-U | 8' LED HIGHBAY STRIP LIGHT, WHITE PAINTED STEEL HOUSING, FROSTED LENS | SUSPENDED | 174W | LED, 4000K |
| F8 | METALUX | 8LBLED-LD4-16-ASYMW-UNV-L840-CD3-SCF-U | 8' LED HIGHBAY STRIP LIGHT, WHITE PAINTED STEEL HOUSING, FROSTED LENS, ASYMMETRIC OPTICS | SUSPENDED | 127W | LED, 4000K |
| F9 | METALUX | 4ILED-LD4-16-W-FL/UPL-UNV-L835-CD2-U | 4' LED HIGHBAY, WHITE PAINTED STEEL HOUSING, FROSTED LENS, UPLIGHT | SUSPENDED | 140W | LED, 4000K |
| F12 | METALUX | 4APVTLD-40L840 | 4' LED VAPORTIGHT, FIGERGLASS HOUSING WITH THREADED HUBS, FROSTED ACRYLIC LENS | SURFACE/ SUSPENDED | 40W | LED, 4000K, 4000 LUMENS |
| F13 | HALO | HU1048D940MB | 4' LONG ULTRA LOW-PROFILE TASK LIGHT, INTEGRAL DIMMABLE DRIVER | CABINET SURFACE | 10W | LED, 3500K |
| F14 | METALUX | 4SLSTP4040DD-UNV | 4' LENSED LED, PAINTED STEEL HOUSING, FROSTED ACRYLIC LENS | SURFACE/ SUSPENDED | 40W | LED, 4000K, 4000 LUMENS |
| F14 (W) | METALUX | SAME AS F14, WALL-MOUNTED | | | | |
| F15 | AMERICAN LINEAR LIGHTING | 3S-12-MD-35-T1-WH | 12' x 3" WIDE LINEAR SUSPENDED FIXTURE, DIRECT/INDIRECT DISTRIBUTION, 0-10V DIMMING DRIVER | RECESSED | 96W | LED, 3500K, 9000 LUM |
| F16 | AMERICAN LINEAR LIGHTING | 3R-08-MD-35-OF | 8' x 3" WIDE LINEAR RECESSED FIXTURE, DRYWALL FLANGE TRIM, FROSTED LENS, 0-10V DIMMING DRIVER | CEILING RECESSED | 64W | LED, 3500K |
| F17 | METALUX | 2BCLED-LD4-20SL-F-UNV-L830 | 2' LUMINOUS SQUARE VANITY LIGHT, MATT WHITE ACRYLIC DIFFUSER | WALL | 20W | LED, 3500K |
| F18 | CANARM | CF52PRE5BN | 52" CEILING FAN WITH LIGHT KIT, OPAL GLASS DIFFUSER, BRUSHED NICKEL, 4500 CFM | CEILING | 87W | LED, 3000K, 100W EQUIV. A21 |
| F19 | CANARM | CP60HPWP WITH FRMC5 CONTROLLER | 60" HIGH PERFORMANCE INDUSTRIAL CEILING FAN, REVERSIBLE MOTOR, 16" DOWNROD, WITH SPEED CONTROLLER | SUSPENDED | 100W | N/A |
| F20 | AMERLUX | FL1-MFL-[FINISH] | SMALL LED FLOOD LIGHT, WITH MEDIUM FLOOD OPTICS, GLARE SHIELD, INTERNAL LOUVERS, | WALL ARM | 40W | LED, 4000K |
| F21 | DIODE LED | BOXA-SW | FLEXIBLE TUBE LIGHT, FULLY ENCAPSULATED LEDS, WET LISTED WITH MOUNTING HARDWARE, CORDS/CONNECTORS, AND POWER SUPPLY | SURACE | 3.3W PER FT | LED, 4000K |
| F22 | TRACE LITE | TLED-NFL-79-VS-40K | MEDIUM WEDGE SHAPED,LOW-PROFILE WALL FIXTURE, CAST ALUMINUM CONSTRUCTION, DIRECT DISTRIBUTION | WALL SURFACE | 80W | LED, 4000K, 7800 LUMENS |
| F23 | LUMINAIRE LED | VPF44-40W-4000K-DIM-120-277-OP-[FINISH]-WET | 4' LINEAR LED WITH LENS, ROUGH-SURFACE, VANDAL RESISTENT, SIDE CONDUIT ENTRY | CANOPY SURFACE | 30W | LED, 4000K, 2000 LUMENS |
| F24 | AMERLUX | FL1-HWF-[FINISH] | SMALL LED FLOOD LIGHT, WITH WIDE HORIZONTAL OPTICS, GLARE SHIELD, INTERNAL LOUVERS, | WALL ARM | 40W | LED, 4000K |
| F25 | MCGRAW EDISON | GLEON-AE-10-LED-T3 | LOW-PROFILE LED AREA/SITE LIGHT, 38 FT TAPERED STEEL POLE, T3 DISTRIBUTION | POLE | 530W | LED, 4000K |
| F26 | MCGRAW EDISON | GLEON-AE-10-LED-T3, GLEON-AE-10-LED-T3 | DUAL LOW-PROFILE LED AREA/SITE LIGHT FXITURES MOUNTED ON 180 DEGREES OPPOSITE ON 38 FT TAPERED STEEL POLE, T3 DISTRIBUTION (BOTH) | POLE | 1060W | LED, 4000K |
| X1 | EXITRONIX | GCLED-1-WH-G2 | WHITE THERMOPLASTIC LED EXIT SIGN, NUMBER OF FACES AND DIRECTIONAL ARROWS AS PER DRAWINGS OR AS REQUIRED, UNIVERSAL MOUNTING, SELF-POWERED, GREEN LETTERING, INTEGRAL LINEAR EMERGENCY LIGHT, REMOTE HEAD (AS SHOWN) | WALL/CEILING SURFACE | | GREEN LED |
| X2 | EXITRONIX | S902-WB-SR-GC-AG-G2 | CLEAR ACRYLIC EDGELIT LED EXIT SIGN, BRUSHED ALUMINUM TRIM FINISH, NUMBER OF FACES AND DIRECTIONAL ARROWS AS PER DRAWINGS OR AS REQUIRED, UNIVERSAL MOUNTING, SELF-POWERED, GREENLETTERING | WALL/CEILING SURFACE | | GREEN LED |
| E1 | EXITRONIX | NFT-W-G2 | LED EMERGENCY LIGHT, TWO ADJUSTABLE HEADS, WHITE PLASTIC CONSTRUCTION | WALL/CEILING SURFACE | 8W | LED |
| E2 | EXITRONIX | CP-EMW | | WALL/CEILING SURFACE | 8W | LED |
| E3 | EXITRONIX | MLED1 | EMERGENCY REMOTE HEAD | WALL | 4W | LED |

FOOTNOTES:

A. COLOR TEMPERATURE OF ALL INTERIOR LIGHT FIXTURES SHALL BE 3500K, UNLESS INDICATED OTHERWISE.

B. COLOR TEMPERATURE OF ALL EXTERIOR LIGHT FIXTURES SHALL BE 4000K, UNLESS INDICATED OTHERWISE. ARCHITECT TO VERIFY ALL FINISHES.

C. ALL BALLASTS, DRIVERS, AND POWER SUPPLIES SHALL BE 120 VOLT UNLESS NOTED OTHERWISE.

D. COORDINATE AND PROVIDE ALL REQUIRED ACCESSORIES FOR MOUNTING CONNECTIONS AT ALL CEILING TYPES (REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES). PROVIDE FLANGE TYPE TRIMS, NUTS FOR TEGULAR TILE INSTALLATIONS, ETC. AS REQUIRED.

E. PROVIDE ALL MOUNTING HARDWARE AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. VERIFY LOCATIONS AND MOUNTING HEIGHTS OF WALL MOUNTED AND SUSPENDED FIXTURES WITH ARCHITECTURAL PLANS, SECTION, AND ELEVATIONS PRIOR TO ROUGH-IN.


MOSES ENGINEERS
CONSULTING ENGINEERS
909 Poydras Street, Suite 2150
New Orleans, Louisiana 70112-1034
Tel. 504-586-1725
Fax 855-327-4815

SIZELER THOMPSON BROWN ARCHITECTS
SIZELER THOMPSON BROWN ARCHITECTS
REGIONAL DESIGN GROUP, LLC
300 LAFAYETTE STREET, SUITE 200
NEW ORLEANS, LOUISIANA 70130
(504) 523-6472 FAX (504) 529-1181


Revisions

| No. | Description | Date |
|---|---|---|
| 1 | Addendum #2 | 11/15/2018 |

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

ELECTRICAL NOTES AND SCHEDULES

seal: STATE OF LOUISIANA — JEFFERY LAMBERT, License No. 37172 — PROFESSIONAL ENGINEER

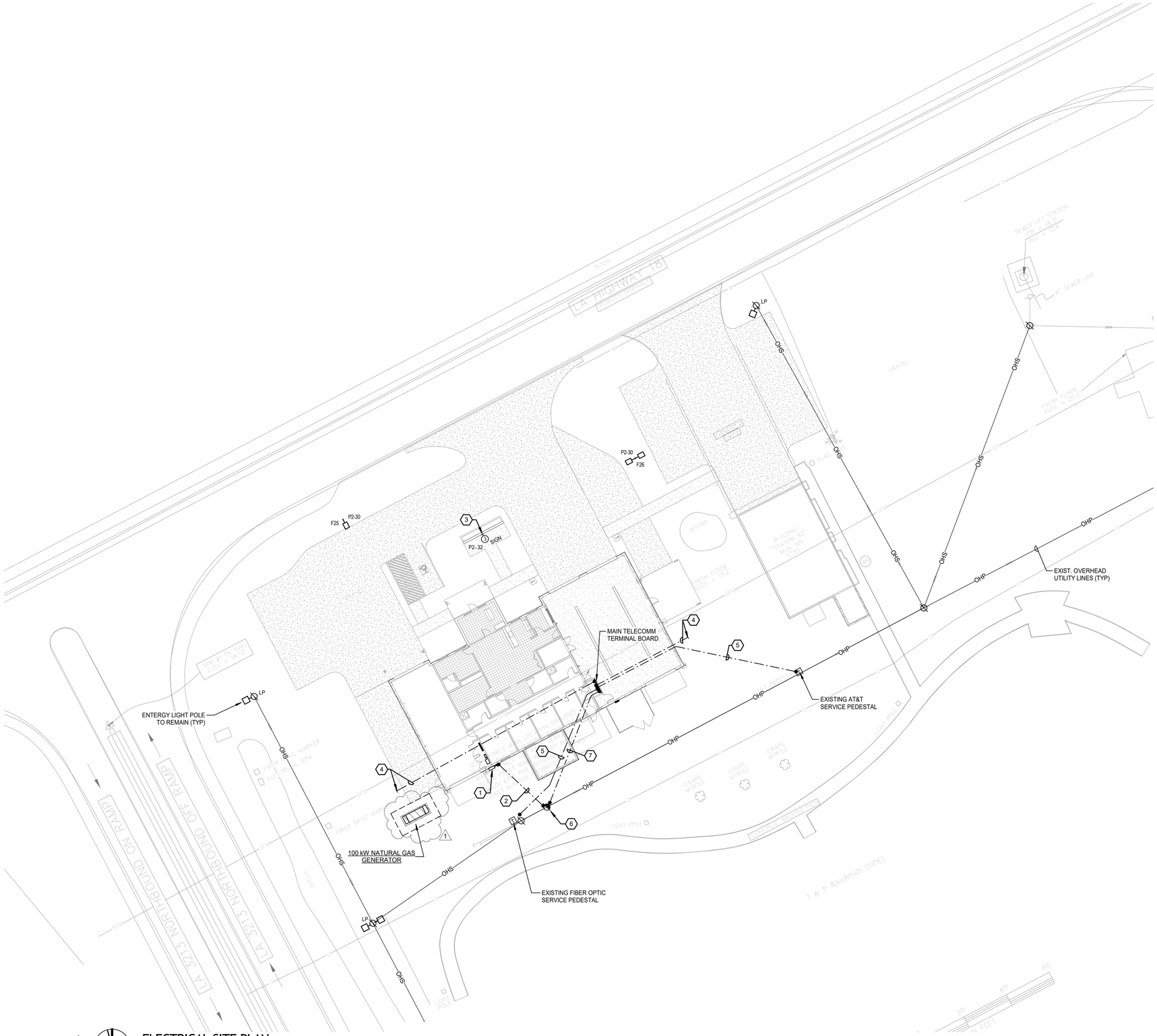
project number: 21238.00

date: OCTOBER 15, 2018

phase: BID DOCUMENTS

drawing number: E003

11/15/2018 10:50:10 AM




1
E101
ELECTRICAL SITE PLAN
1" = 20'-0"

## SHEET GENERAL NOTES

A. ALL EXTERIOR LIGHTING CIRCUITS SHALL BE RUN THROUGH LIGHTING CONTACTOR. SEE EXTERIOR LIGHTING CONTROL DIAGRAM.

## # SHEET REFERENCE NOTES

1 ENTERGY METER AND MAIN SERVICE DISCONNECT. SEE POWER RISER DIAGRAM.

2 UNDERGROUND SERVICE LATERAL FROM SERVICE POLE TO BUILDING ENTERGY METER. INSTALL PER ENTERGY REQUIREMENTS. SEE POWER RISER DIAGRAM.

3 JUNCTION BOX RECESSED IN WALL FOR BACKLIT LETTERS SIGNAGE. SIZE BOX AS REQUIRED TO HOUSE ASSOCIATED POWER SUPPLY(S) AND OTHER ELECTRICAL DEVICES PER SIGN MANUFACTURER'S RECOMMENDATIONS. RUN WIRING AND CONDUIT CONCEALED THRU WALL WALL TO MAKE CONNECTION.

4 (1) 2" CONDUIT WITH TRACER WIRE RUN 36" (MIN) BELOW GRADE FROM MDF TO OUTSIDE THE BUILDING FOR FUTURE USE. STUB AND CAP BELOW GRADE.

5 CONDUIT WITH PULLCORD RUN UNDERGROUND FROM TELECOMM BACKBOARD TO AT&T PEDESTAL FOR VOICE-DATA TELEPHONE/FIBER SERVICE. SEE COMMUNICATIONS RISER DIAGRAM. VERIFY REQUIREMENTS WITH SERVICE PROVIDER.

6 NEW 208V-3PH TRANSFORMER BANK POLE BY ENTERGY. CONDUT A MEETING WITH ENTERGY TO VERIFY LOCATION AND REQUIREMENTS PRIOR TO TRENCHING. ADJUST WORK ACCORDINGLY.

7 CONDUIT WITH PULLCORD RUN UNDERGROUND FROM MAIN TELECOMM TERMINAL BOARD TO UTILITY POLE FOR CATV SERVICE. SEE COMMUNICATIONS RISER DIAGRAM. VERIFY REQUIREMENTS WITH SERVICE PROVIDER.


MOSES ENGINEERS
CONSULTING ENGINEERS
909 Poydras Street, Suite 2150
New Orleans, Louisiana 70112-1034
Tel. 504-586-1725
Fax 855-327-4815

SIZELER THOMPSON BROWN ARCHITECTS
SIZELER THOMPSON BROWN ARCHITECTS
REGIONAL DESIGN GROUP, LLC
300 LAFAYETTE STREET, SUITE 200
NEW ORLEANS, LOUISIANA 70130
(504) 523-6472 FAX (504) 529-1181


Revisions

| No. | Description | Date |
|---|---|---|
| 1 | Addendum #2 | 11/15/2018 |

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

ELECTRICAL SITE PLAN

seal: STATE OF LOUISIANA — JEFFERY LAMBERT, License No. 37172, PROFESSIONAL ENGINEER

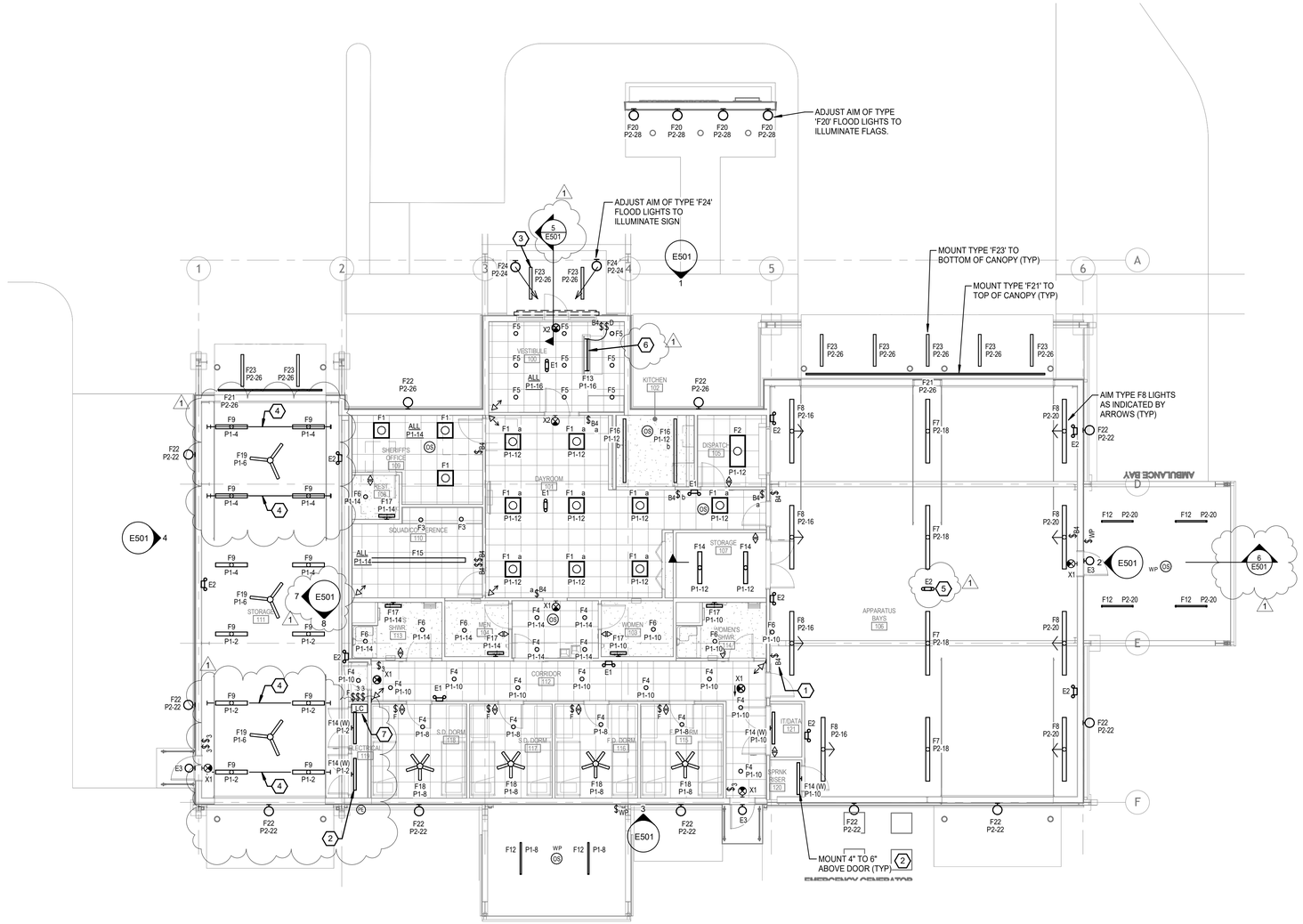
project number: 21238.00

date: OCTOBER 15, 2018

phase: BID DOCUMENTS

drawing number: E101

11/15/2018 12:06:33 PM




1 E201 LIGHTING PLAN
1/8" = 1'-0"

# SHEET GENERAL NOTES

A. WALL SWITCHES SHOWN GROUPED SHALL BE INSTALLED IN MULTI-GANG BOXES WITH SINGLE FACEPLATE AS APPICALBLE.

B. RUN EXTERIOR LIGHTING CIRCUITS THRU LIGHTING CONTACTOR. SEE EXTERIOR LIGHTING CONTROL DIAGRAM.

C. CONNECT EXIT SIGNS AND EMERGENCY BATTERY PACKS TO UNSWITCHED HOT LEG OF THE LIGHTING BRANCH CIRUIT IN THE AREA THAT THEY ARE LOCATED.

# SHEET REFERENCE NOTES

1 'B4' TYPE SWITCHES: 4-BUTTON LOW-VOLTAGE SWITCH (WATTSTOPPER LMSW SERIES OR APPROVED EQUAL): SHALL CONTROL INDICATED SWITCHING GROUP/ZONE WITH THE FOLLOWING BUTTON PRESETS: "HIGH" - 100% LIGHT OUTPUT, "MED" - DIM TO 50% LIGHT OUPUT, "LOW" - DIM TO 5% LIGHT OUTPUT, "OFF" - TURN LIGHTS OFF. PROVIDE LOAD CONTROLLERS/RELAY PACKS AS REQUIRED. (TYPICAL)

2 PROVIDE 120V DOOR JAMB SWITCH (TORK TA502 OR APPROVED EQUAL) FOR CONROL OF LIGHT FIXTURE IN CLOSET.

3 PROVIDE UL 924 RATED, 30W, 120V REMOTE NICAD BATTERY EMERGENCY BACKUP POWER SUPPY WITH TEST SWITCH FOR 'F23' FIXTURE THAT WILL PROVIDE 90 (MIN) RUN TIME UPON LOSS OF NORMAL POWER. INSTALL IN CEILING OF ADJACENT VESTIBULE.

4 MOUNT FIXTURES TO 16' (MIN) SPAN OF UNISTRUT SUSPENDED BELOW ROLLUP DOOR TRACK SYSTEM. UNISTRUT SHALL HAVE SUSPENSION POINTS ON EACH END ONLY TO CLEAR ROLLUP DOOR. SIZE STRUT AS REQUIRED TO SUPPORT WEIGHT.

5 SUSPEND EMERGENCY LIGHT(S) AS REQUIRED SUCH THAT THEY ARE EVEN WITH BOTTOM OF ADJACENT LIGHT FIXTURES.

6 UNDERCOUNTER LIGHT INSTALLED ON RECEPTIONIST DESK. COORD WITH ARCHITECT.

7 MULTIPOLE LIGHTING CONTACTOR FOR EXTERIOR LIGHTING CIRCUITS, ELECTRONICALLY OPERATED MECHANICALLY HELD, 120V COIL, NEMA 1 ENCLOSURE. SEE EXTERIOR LIGHTING CONTROL DIAGRAM.


MOSES ENGINEERS
CONSULTING ENGINEERS
909 Poydras Street, Suite 2150
New Orleans, Louisiana 70112-1034
Tel. 504-586-1725
Fax 855-327-4815

SIZELER THOMPSON BROWN ARCHITECTS
SIZELER THOMPSON BROWN ARCHITECTS
REGIONAL DESIGN GROUP, LLC
300 LAFAYETTE STREET, SUITE 200
NEW ORLEANS, LOUISIANA 70130
(504) 523-6472 FAX (504) 529-1181


Revisions

| No. | Description | Date |
|---|---|---|
| 1 | Addendum #2 | 11/15/2018 |

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

LIGHTING PLAN

seal: STATE OF LOUISIANA — JEFFERY LAMBERT, License No. 37172 — PROFESSIONAL ENGINEER

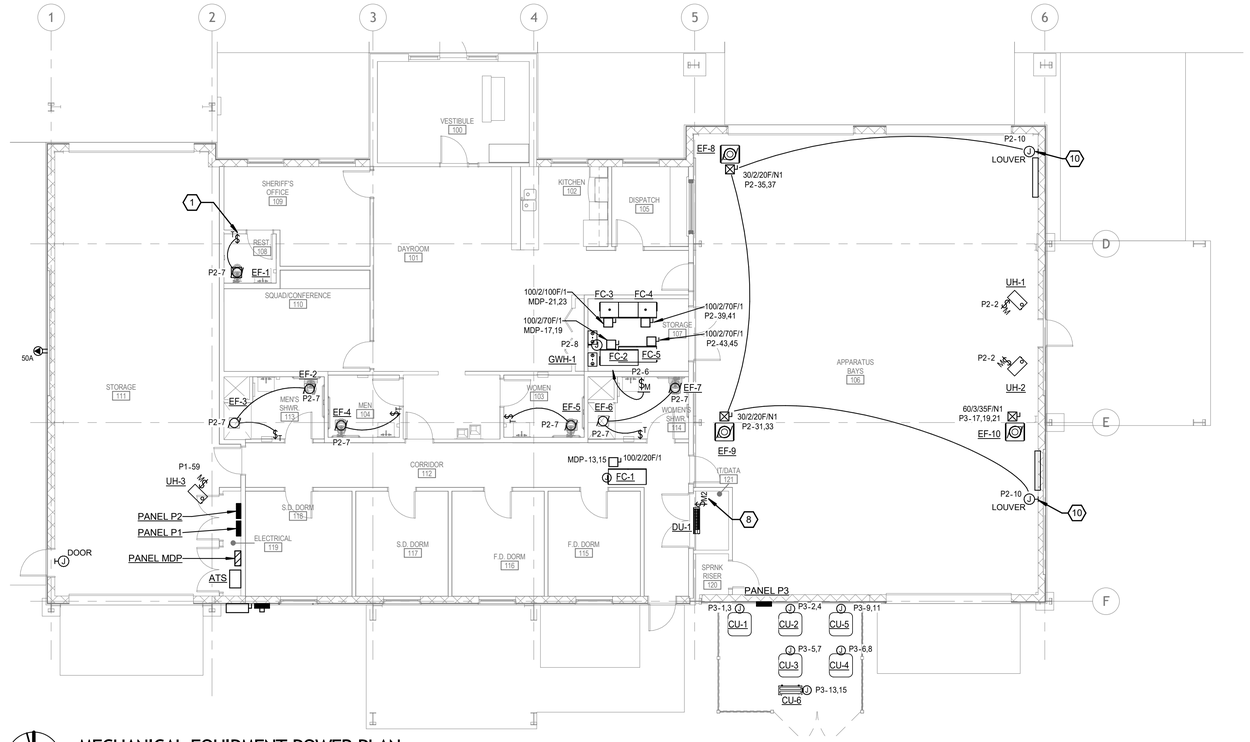
project number: 21238.00

date: OCTOBER 15, 2018

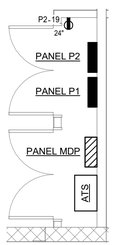
phase: BID DOCUMENTS

drawing number: E201

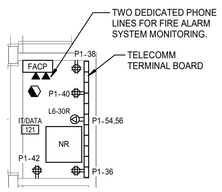
11/15/2018 10:55:43 AM



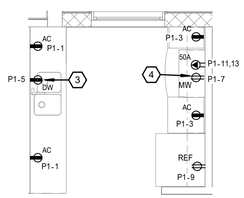

2 E301 MECHANICAL EQUIPMENT POWER PLAN
1/8" = 1'-0"



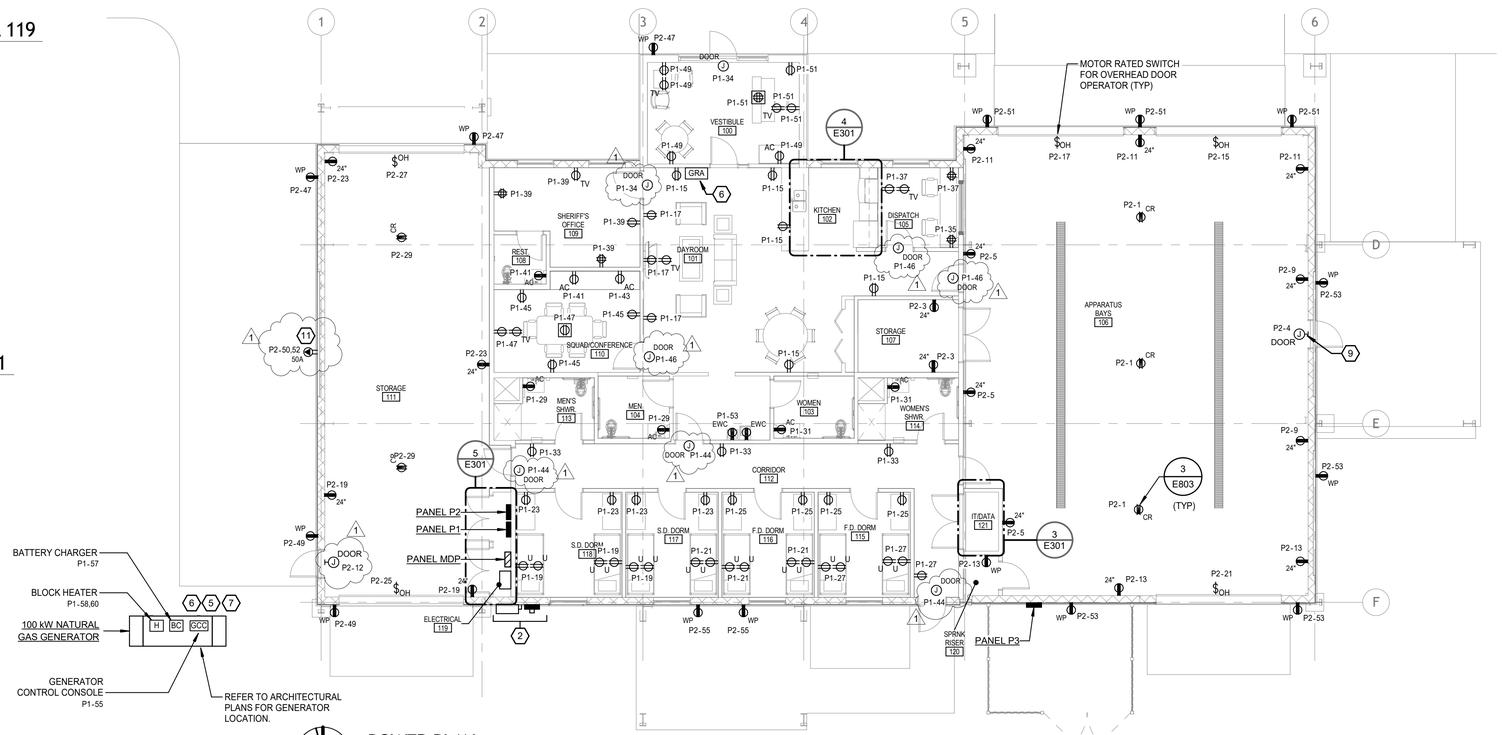

5 E301 ENLARGED ELEC PLAN - ELECTRICAL 119
1/4" = 1'-0"




3 E301 ENLARGED ELEC PLAN - IT/DATA 121
1/4" = 1'-0"




4 E301 ENLARGED ELEC PLAN - KITCHEN
1/4" = 1'-0"




1 E301 POWER PLAN
1/8" = 1'-0"

## # SHEET REFERENCE NOTES

1.1 NONE.AL TIMED SWITCH FOR CONTROL OF EXHAUST FAN - WATTSTOPPER RT-100 OR APPROVED EQUAL (TYP).

2 ENTERGY METER AND MAIN SERVICE DISCONNECT. SEE POWER RISER DIAGRAM.

3 GFCI RECEPTACLE FOR DISHWASHER BELOW COUNTER OF ADJACENT CABINET 24" AFF. PROVIDE 2#10, 1#10G SOOW CORD AND PLUG FOR DISHWASHER DISCONNECTING MEANS.

4 RECEPTACLE FOR MICROWAVE AND HOOD POWER. PROVIDE HARDWIRED ELECTRICAL CONNECTION IN LIEU OF RECEPTACLE AS APPLICABLE PER HOOD MANUFACTURER'S REQUIREMENTS. COORDINATE WITH ARCHITECT FOR EXACT LOCATION PRIOR TO ROUGH-IN.

5 RUN CONTROL WIRING IN CONDUIT(S) AS REQUIRED FROM A.T.S. TO GENERATOR CONTROL PANEL. INSTALL TWO(2) ADDITIONAL 1" SPARE CONDUITS W/PULLCORD FOR FUTURE USE.

6 RUN 1"C WITH CABLING AS REQUIRED FROM GENERATOR TO REMOTE ANNUCIATOR PANEL LOCATED IN VESTIBULE.

7 INSTALL TWO (2) 1" SPARE CONDUITS W/PULLCORD FROM GENERATOR CONTROL PANEL TO PANEL P1.

8 POWER SHALL BE SUPPLIED BY ASSOCIATED OUTDOOR CONDENSING UNIT. RUN 2#12, 1#12(G) IN 3/4" C TO ASSOCIATED OUTDOOR CONDENSING UNIT.

9 J-BOX AND POWER CIRCUIT FOR FUTURE DOOR ACCESS POWER SUPPLY (TYP)

10 120V POWER FOR MOTORIZED DAMPER. INTERLOCK MOTORIZED DAMPER WITH EXHAUST FANS EF-8 AND EF-9 STARTER, REFER TO MECH PLANS.

11 50A, 125/250V, 3P, 4W TWISTLOCK RECEPTACLE, MARINE GRADE, CORROSION RESISTANT STAINLESS STEEL (HUBBELL HBL63CM69 OR APPROVED EQUAL) WITH WATERPROOF COVER PLATE (HUBBELL HBL7774WO OR APPROVED EQUAL) AND CORD BOOT (HUBBELL HBL77CM16W OR APPROVED EQUAL).


MOSES ENGINEERS
CONSULTING ENGINEERS
909 Poydras Street, Suite 2150
New Orleans, Louisiana 70112-1034
Tel. 504-586-1725
Fax 855-327-4815

SIZELER THOMPSON BROWN ARCHITECTS
SIZELER THOMPSON BROWN ARCHITECTS
REGIONAL DESIGN GROUP, LLC
300 LAFAYETTE STREET, SUITE 200
NEW ORLEANS, LOUISIANA 70130
(504) 523-6472 FAX (504) 529-1181


Revisions

| No. | Description | Date |
|---|---|---|
| 1 | Addendum #2 | 11/15/2018 |

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

POWER PLANS

seal: STATE OF LOUISIANA — JEFFERY LAMBERT, License No. 37172 — PROFESSIONAL ENGINEER

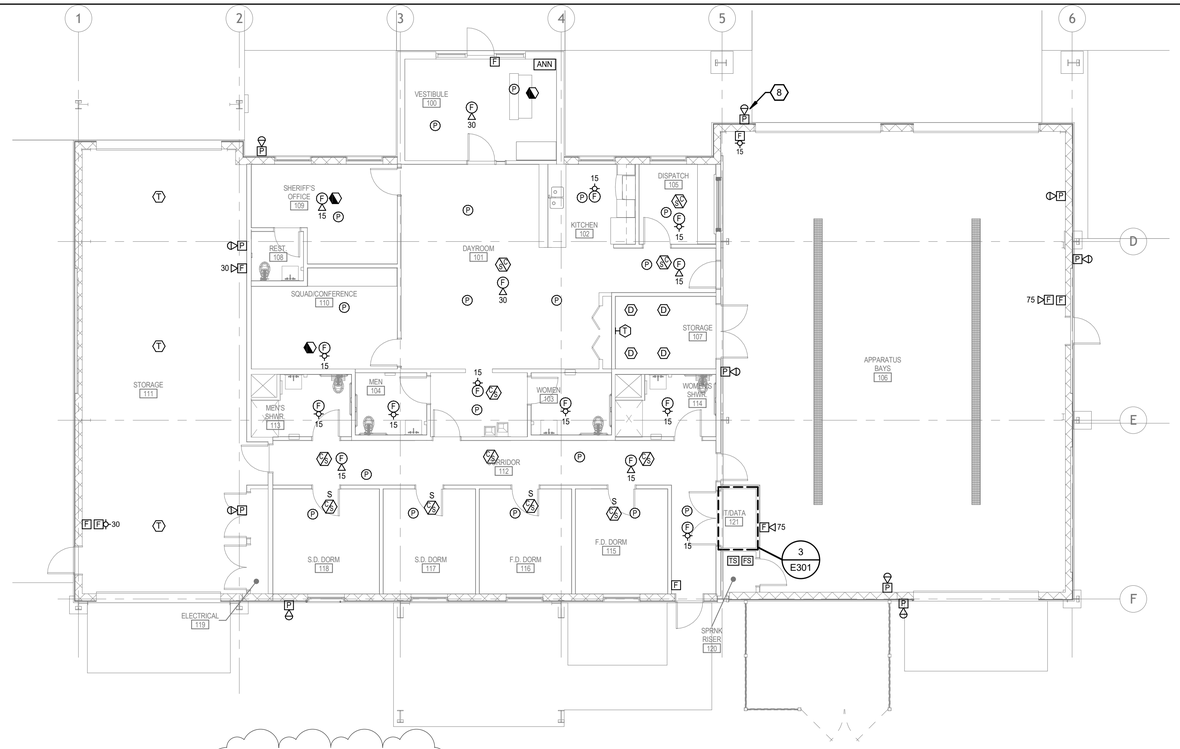
project number: 21238.00

date: OCTOBER 15, 2018

phase: BID DOCUMENTS

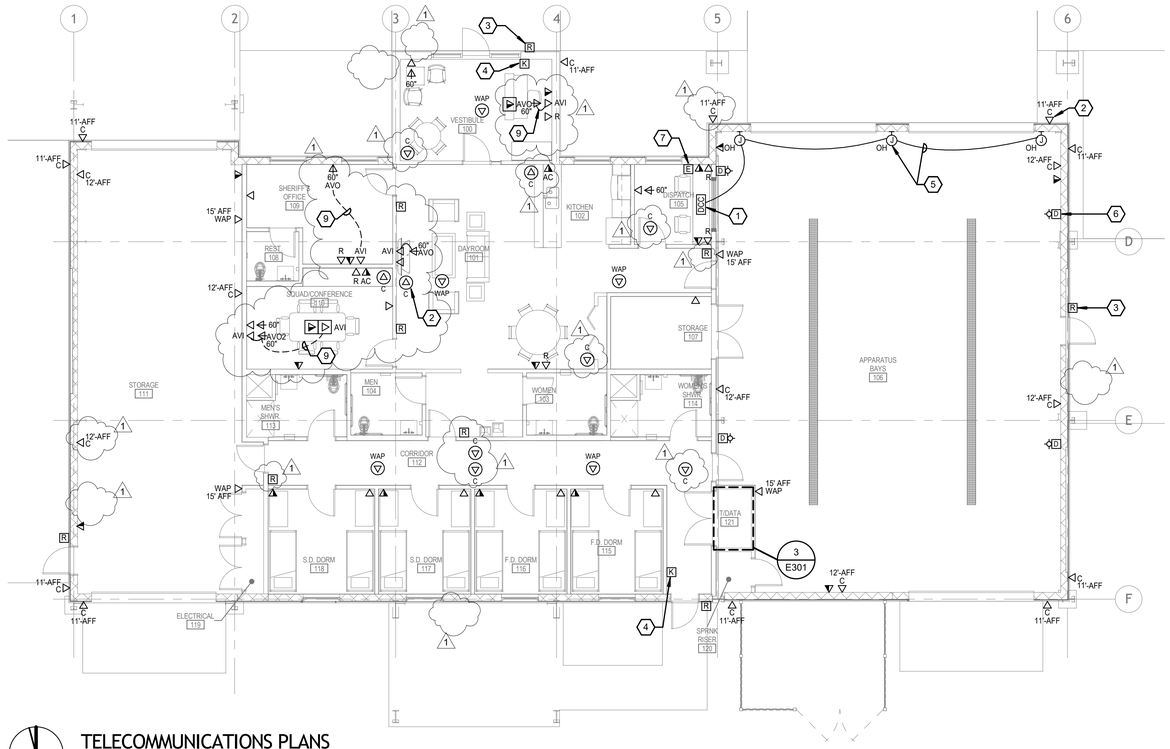
drawing number: E301

11/15/2018 12:18:3k PM




3 E401 FIRE ALARM AND INTERCOM SYSTEM PLAN

1/8" = 1'-0"




1 E401 TELECOMMUNICATIONS PLANS

1/8" = 1'-0"

## # SHEET REFERENCE NOTES

1 DUAL-FUNCTION DOOR ATTENDANT CONTROLLER CONSOLE, FOR AUDIO/VISUAL ANNUNCIATION AND DOOR RELEASE OF BOTH DOORS: QUANTOMETRIX OMNIPORT Q-9 OR APPROVED EQUAL. SYSTEM ACTIVATION SHALL BE TRIGGERABLE BY PUSH BUTTON. CONSOLE SHALL HAVE KEY OPERATED SWITCH TO DISABLE ANNUNCIATOR AND TO OVERRIDE DOOR RELEASE ALLOWING DOORS TO REMAIN OPEN. PROVIDE (4) STROBE LIGHTS IN APPARATUS BAY AS INDICATED. INTERLOCK STROBES, AND DOOR RELEASES TO CONTROLLER CONSOLE. COORDINATE EXACT HEIGHT ASSOCIATED JUNCTION BOX WITH ARCHITECT.

2 J-BOX AND DATA CABLES FOR FUTURE CCTV CAMERA: 4" SQUARE x 2" DEEP RECESSED FLUSH IN WALL/CEILING WITH TRIM RING AND BLANK COVERPLATE. RUN (1) CAT6 CABLE AND (1) ANALOG CAMERA CABLE FROM J-BOX TO MDF. COIL 12" (MIN) CABLE IN J-BOX. ANALOG CAMERA CABLE SHALL BE RG6 COAXIAL AND 2#18 AWG (SOLID COPPER) SIAMESE CABLE; PLENUM RATED. RG6 SHALL BE TERMINATED WITH 75 OHM TYPE BNC CONNECTORS ON BOTH ENDS. RUN CABLES IN 3/4" EMT IN EXPOSED AREAS TILL ABOVE ACCESSIBLE CEILINGS. SUPPORT CABLE VIA J-HOOKS ABOVE ACCESSIBLE CEILING. PROVIDE LABEL ON COVERPLATE READING, "CAMERA". MOUNTING HEIGHTS PER OWNER'S DIRECTION. TYPICAL FOR TYPE 'C' DATA OUTLETS.

3 J-BOX FOR FUTURE P ACCESS CONTROL SYSTEM CARD READER: 4" SQUARE x 2" DEEP RECESSED J-BOX FLUSH IN WALL 48" AFF WITH TRIM RING AND BLANK COVERPLATE. RUN 3/4" C W/PULLCORD FROM BOX TO ABOVE NEAREST ACCESSIBLE CEILING. TERMINATE CONDUIT IN INSULATION BUSHING. (TYPICAL)

4 J-BOX FOR FUTURE INTRUSION DETECTION SYSTEM SECURITY KEYPAD: 4" SQUARE x 2" DEEP RECESSED FLUSH IN WALL 48" AFF WITH TRIM RING AND BLANK COVERPLATE. RUN 3/4" EMT WITH PULLCORD FROM J-BOX TO ABOVE NEAREST ACCESSIBLE CEILING. TERMINATE CONDUIT IN INSULATION BUSHING. PROVIDE LABEL ON COVERPLATE READING, "SECURITY SYSTEM KEYPAD". (TYPICAL)

5 PROVIDE CONTROL WIRING AS REQUIRED FROM DOOR CONTROLLER CONSOLE TO DOOR OPERATOR.

6 MOTORIZED ROLLUP DOOR SYSTEM STROBE. CONNECT TO DOOR ATTENDANT CONSOLE IN DISPATCH OFFICE AS REQUIRED. RUN CABLES IN 1/2" (MIN) EMT.

7 PROVIDE PUSHBUTTON INITIATING DEVICE CONNECTED TO THE PAGING SYSTEM. DEVICE SHALL INITIATE AUDIBLE ALARM TONE OVER PAGING SYSTEM SPEAKERS THROUGHOUT FACILITY. DEVICE SHALL BE RED AND HAVE WHITE LETTERS READING "EMERGENCY" AND SHALL BE PROVIDED WITH A CLEAR POLYCARBONATE COVER. PROVIDE ALL CABLING, RELAYS, CONNECTIONS, PROGRAMMING, ETC. REQUIRED FOR COMPLETE INSTALLATION.

8 PAGING SYSTEM WALL LOUDSPEAKER 12' AFF. COORDINATE MOUNTING AND LOCATION ON BUILDING FACADE WITH ARCHITECT PRIOR TO ROUGH-IN. (TYPICAL)

9 1-1/4"C WITH A/V CABLES INTERCONNECTING 'AVI' AND 'AVO' OUTLETS. SEE TELECOMMUNICATIONS OUTLET DETAIL ON SHEET E805.


MOSES ENGINEERS
CONSULTING ENGINEERS
909 Poydras Street, Suite 2150
New Orleans, Louisiana 70112-1034
Tel. 504-586-1725
Fax 855-327-4815

SIZELER THOMPSON BROWN ARCHITECTS
REGIONAL DESIGN GROUP, LLC
300 LAFAYETTE STREET, SUITE 200
NEW ORLEANS, LOUISIANA 70130
(504) 523-6472 FAX (504) 529-1181


Revisions

| No. | Description | Date |
|---|---|---|
| 1 | Addendum #2 | 11/15/2018 |

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

COMMUNICATIONS PLANS PLAN

seal: STATE OF LOUISIANA — JEFFERY LAMBERT, License No. 37172, PROFESSIONAL ENGINEER

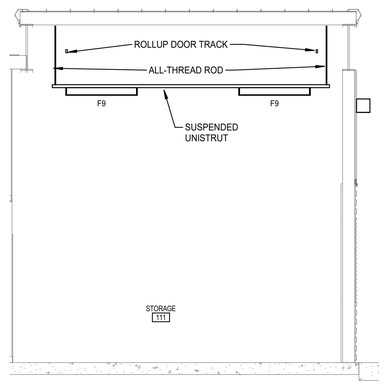
project number: 21238.00

date: OCTOBER 15, 2018

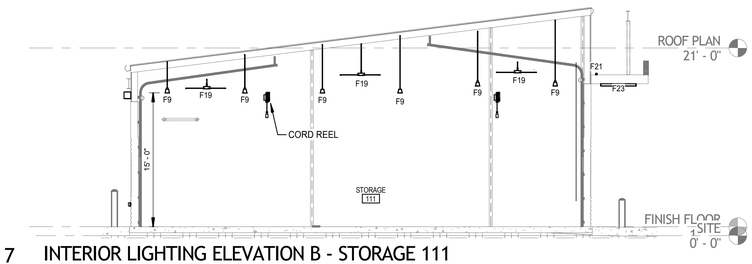
phase: BID DOCUMENTS

drawing number: E401

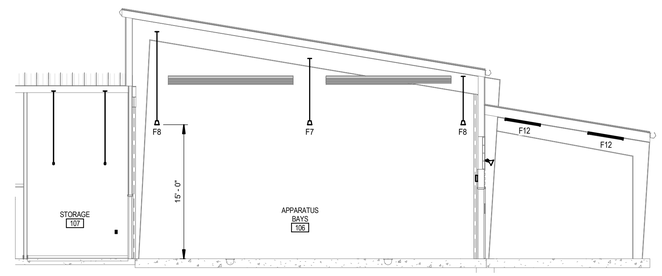
11/15/2018 10:56:47 AM



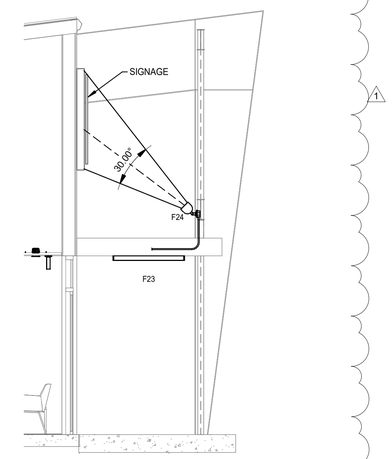

8 E501 INTERIOR LIGHTING ELEVATION A - STORAGE 111
1/4" = 1'-0"



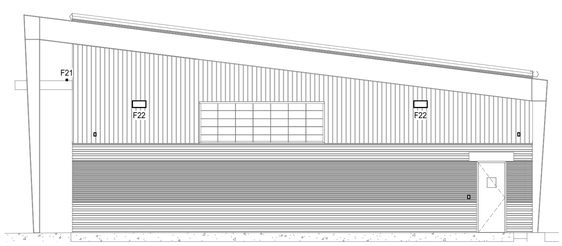

7 E501 INTERIOR LIGHTING ELEVATION B - STORAGE 111
1/8" = 1'-0"



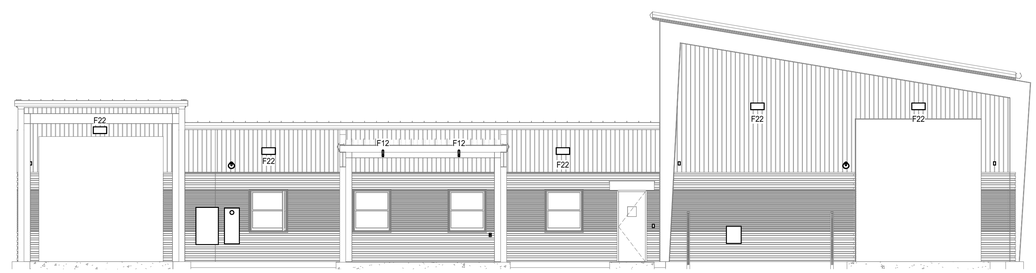

6 E501 INTERIOR LIGHTING SECTION - APPARATUS BAY
1/8" = 1'-0"



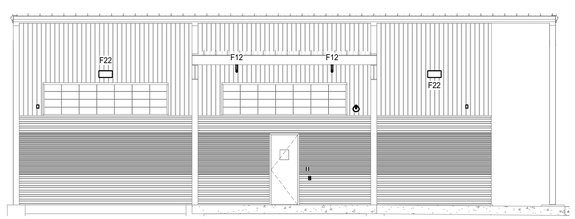

5 E501 EXTERIOR LIGHTING SECTION - FRONT SIGN
1/4" = 1'-0"



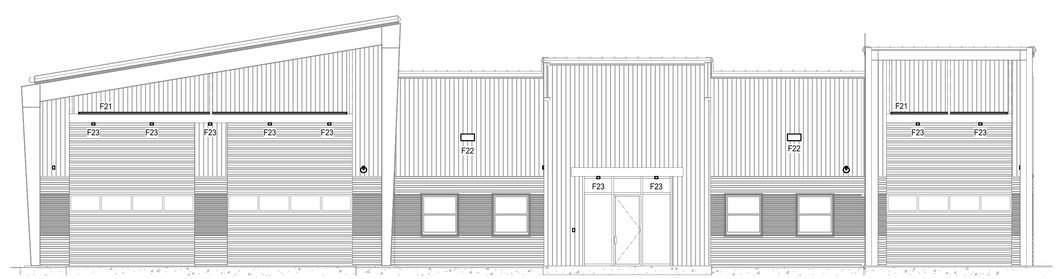

4 E501 EXTERIOR LIGHTING ELEVATION - WEST
1/8" = 1'-0"




3 E501 EXTERIOR LIGHTING ELEVATION - SOUTH
1/8" = 1'-0"




2 E501 EXTERIOR LIGHTING ELEVATION - EAST
1/8" = 1'-0"




1 E501 EXTERIOR LIGHTING ELEVATION - NORTH
1/8" = 1'-0"


MOSES ENGINEERS
CONSULTING ENGINEERS
909 Poydras Street, Suite 2150
New Orleans, Louisiana 70112-1034
Tel. 504-586-1725
Fax 855-327-4815

SIZELER THOMPSON BROWN ARCHITECTS
REGIONAL DESIGN GROUP, LLC
300 LAFAYETTE STREET, SUITE 200
NEW ORLEANS, LOUISIANA 70130
(504) 523-6472 FAX (504) 529-1181


Revisions

| No. | Description | Date |
|---|---|---|
| 1 | Addendum #2 | 11/15/2018 |

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

ELECTRICAL ENLARGED PLANS, SECTIONS, AND ELEVATIONS

seal: STATE OF LOUISIANA — JEFFERY LAMBERT, License No. 37172, PROFESSIONAL ENGINEER

project number: 21238.00

date: OCTOBER 15, 2018

phase: BID DOCUMENTS

drawing number: E501

11/15/2018 12:42:20 PM

# PANEL P1

**LOCATION:** ELECTRICAL 119
**SUPPLY SOURCE:** MDP
**VOLTAGE:** 120/208 Wye
**BUS:** 225 A
**MAINS RATING:** 225 A
**MAINS TYPE:** MLO

**BRANCHES:** BOLT-ON
**POLES:** 60
**MOUNTING:** Surface
**ENCLOSURE:** NEMA 1
**ACCESSORIE...**

___ SHUNT TRIP MAIN CB
___ SERVICE ENTRANCE RATED
___ UL LISTED FEED-THROUGH LUGS
X UL LISTED SUB-FEED LUGS
___ ISOLATED GROUND BAR

**AVAILABLE AIC:** 5,625
**AIC RATING:** 10,000

___ SERIES RATED
X FULLY RATED

| CKT# | DESCRIPTION | WIRE SIZE | TRIP | POLES | A | | B | | C | | POLES | TRIP | WIRE SIZE | DESCRIPTION | CKT# |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | KITCHEN COUNTER RECEPTACLES | 1-#12, 1-#12, 1-#12 | 20 A | 1 | 360 | 954 | | | | | 1 | 20 A | 1-#12, 1-#12, 1-#12 | LIGHTING - STORAGE 111 | 2 |
| 3 | KITCHEN COUNTER RECEPTACLES | 1-#12, 1-#12, 1-#12 | 20 A | 1 | | | 360 | 870 | | | 1 | 20 A | 1-#12, 1-#12, 1-#12 | LIGHTING - STORAGE 111 | 4 |
| 5 | DISHWASHER | 1-#12, 1-#12, 1-#12 | 20 A | 1 | | | | | 1200 | 300 | 1 | 20 A | 1-#12, 1-#12, 1-#12 | CEILING FANS - STORAGE 111 | 6 |
| 7 | MICROWAVE | 1-#12, 1-#12, 1-#12 | 20 A | 1 | 1200 | 516 | | | | | 1 | 20 A | 1-#12, 1-#12, 1-#12 | LIGHTING - DORMS | 8 |
| 9 | REFRIGERATOR | 1-#12, 1-#12, 1-#12 | 20 A | 1 | | | 720 | 458 | | | 1 | 20 A | 1-#12, 1-#12, 1-#12 | LIGHTING - CORRIDOR 112,... | 10 |
| 11 | RANGE | 2-#8, 1-#8, 1-#10 | 50 A | 2 | | | | | 500 | 660 | 1 | 20 A | 1-#10, 1-#10, 1-#10 | LIGHTING - DAYROOM, DISPATCH,... | 12 |
| 13 | -- | -- | -- | -- | 500 | 497 | | | | | 1 | 20 A | 1-#12, 1-#12, 1-#12 | LIGHTING - CONFERENCE, SHERIFF | 14 |
| 15 | DAYROOM RECEPTACLES | 1-#12, 1-#12, 1-#12 | 20 A | 1 | | | 900 | 395 | | | 1 | 20 A | 1-#12, 1-#12, 1-#12 | LIGHTING FRONT VESTIBULE | 16 |
| 17 | DAYROOM RECEPTACLES | 1-#12, 1-#12, 1-#12 | 20 A | 1 | | | | | 720 | 0 | 1 | 20 A | -- | SPARE | 18 |
| 19 | DORM ROOM RECEPTACLES | 1-#12, 1-#12, 1-#12 | 20 A | 1 | 900 | 0 | | | | | 1 | 20 A | -- | SPARE | 20 |
| 21 | DORM ROOM RECEPTACLES | 1-#12, 1-#12, 1-#12 | 20 A | 1 | | | 1080 | 0 | | | 1 | 20 A | -- | SPARE | 22 |
| 23 | DORM ROOM TV RECEPTACLES | 1-#12, 1-#12, 1-#12 | 20 A | 1 | | | | | 720 | 0 | 1 | 20 A | -- | SPARE | 24 |
| 25 | DORM ROOM TV RECEPTACLES | 1-#12, 1-#12, 1-#12 | 20 A | 1 | 720 | 0 | | | | | 1 | 20 A | -- | SPARE | 26 |
| 27 | DORM ROOM RECEPTACLES | 1-#12, 1-#12, 1-#12 | 20 A | 1 | | | 900 | 0 | | | 1 | 20 A | -- | SPARE | 28 |
| 29 | MENS SHWR/RR RECEPTACLES | 1-#12, 1-#12, 1-#12 | 20 A | 1 | | | | | 360 | 0 | 1 | 20 A | -- | SPARE | 30 |
| 31 | WOMENS SHWR/RR RECEPTACLES | 1-#12, 1-#12, 1-#12 | 20 A | 1 | 360 | 0 | | | | | 1 | 20 A | -- | SPARE | 32 |
| 33 | CORRIDOR RECEPTACLES | 1-#12, 1-#12, 1-#12 | 20 A | 1 | | | 540 | 200 | | | 1 | 20 A | 1-#12, 1-#12, 1-#12 | DOOR ACCESS CONTROLLERS | 34 |
| 35 | DISPATCH ROOM RECEPTACLES | 1-#12, 1-#12, 1-#12 | 20 A | 1 | | | | | 360 | 360 | 1 | 20 A | 1-#12, 1-#12, 1-#12 | I.T./DATA RECEPTACLES | 36 |
| 37 | DISPATCH ROOM RECEPTACLES | 1-#12, 1-#12, 1-#12 | 20 A | 1 | 720 | 360 | | | | | 1 | 20 A | 1-#12, 1-#12, 1-#12 | I.T./DATA RECEPTACLES | 38 |
| 39 | SHERIFFS OFFICE RECEPTACLES | 1-#12, 1-#12, 1-#12 | 20 A | 1 | | | 1080 | 360 | | | 1 | 20 A | 1-#12, 1-#12, 1-#12 | I.T./DATA RECEPTACLES | 40 |
| 41 | SQUAD/CONF ROOM RECEPTACLES | 1-#12, 1-#12, 1-#12 | 20 A | 1 | | | | | 360 | 360 | 1 | 20 A | 1-#12, 1-#12, 1-#12 | I.T./DATA RECEPTACLES | 42 |
| 43 | SQUAD/CONF ROOM RECEPTACLES | 1-#12, 1-#12, 1-#12 | 20 A | 1 | 180 | 300 | | | | | 1 | 20 A | 1-#12, 1-#12, 1-#12 | DOOR ACCESS CONTROLLERS | 44 |
| 45 | SQUAD/CONF ROOM RECEPTACLES | 1-#12, 1-#12, 1-#12 | 20 A | 1 | | | 540 | 300 | | | 1 | 20 A | 1-#12, 1-#12, 1-#12 | DOOR ACCESS CONTROLLERS | 46 |
| 47 | SQUAD/CONF ROOM RECEPTACLES | 1-#12, 1-#12, 1-#12 | 20 A | 1 | | | | | 540 | 0 | -- | -- | -- | PROVISIONS | 48 |
| 49 | VESTIBULE RECEPTACLES | 1-#12, 1-#12, 1-#12 | 20 A | 1 | 720 | 0 | | | | | -- | -- | -- | PROVISIONS | 50 |
| 51 | VESTIBULE RECEPTACLES | 1-#12, 1-#12, 1-#12 | 20 A | 1 | | | 720 | 0 | | | -- | -- | -- | PROVISIONS | 52 |
| 53 | EWC | 1-#12, 1-#12, 1-#12 | 20 A | 1 | | | | | 720 | 1250 | 2 | 30 A | 2-#10, 1-#10, 1-#10 | UPS RECEPTACLE | 54 |
| 55 | GENERATOR CONTROL CONSOLE | 1-#12, 1-#12, 1-#12 | 20 A | 1 | 0 | 1250 | | | | | -- | -- | -- | -- | 56 |
| 57 | GENERATOR BATTERY CHARGER | 1-#12, 1-#12, 1-#12 | 20 A | 1 | | | 0 | 0 | | | 2 | 30 A | 2-#10, 1-#10, 1-#10 | GENERATOR BLOCK HEATER | 58 |
| 59 | UNIT HEATER UH-3 | 1-#12, 1-#12, 1-#12 | 20 A | 1 | | | | | 180 | 0 | -- | -- | -- | -- | 60 |
| | | | | | **TOTAL LOAD (VA):** | | 9537 | | 9423 | | 8590 | | | | |
| | | | | | **TOTAL CURRENT (A):** | | 81 | | 80 | | 72 | | | | |

**TOTAL CONNECTED LOAD:** 27550 VA
**TOTAL CONNECTED CURRENT:** 76 A
**ESTIMATED DEMAND LOAD:** 24888 VA
**ESTIMATED DEMAND CURRENT:** 69 A

**NOTES:**

# PANEL P2

**LOCATION:** ELECTRICAL 119
**SUPPLY SOURCE:** MDP
**VOLTAGE:** 120/208 Wye
**BUS:** 225 A
**MAINS RATING:** 225 A
**MAINS TYPE:** MLO

**BRANCHES:** BOLT-ON
**POLES:** 60
**MOUNTING:** SURFACE
**ENCLOSURE:** NEMA 1
**ACCESSORIE...**

___ SHUNT TRIP MAIN CB
___ SERVICE ENTRANCE RATED
___ UL LISTED FEED-THROUGH LUGS
___ UL LISTED SUB-FEED LUGS
___ ISOLATED GROUND BAR

**AVAILABLE AIC:** 4,811
**AIC RATING:** 10,000

___ SERIES RATED
X FULLY RATED

| CKT# | DESCRIPTION | WIRE SIZE | TRIP | POLES | A | | B | | C | | POLES | TRIP | WIRE SIZE | DESCRIPTION | CKT# |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | APARATUS BAY CORD REELS | 1-#10, 1-#10, 1-#10 | 20 A | 1 | 1080 | 360 | | | | | 1 | 20 A | 1-#12, 1-#12, 1-#12 | APPARATUS BAY GAS HEATERS | 2 |
| 3 | APARATUS STOR RM RECEPTACLES | 1-#12, 1-#12, 1-#12 | 20 A | 1 | | | 360 | 120 | | | 1 | 20 A | 1-#12, 1-#12, 1-#12 | DOOR ACCESS CONTROLLER | 4 |
| 5 | APARATUS BAY RECEPTACLES | 1-#12, 1-#12, 1-#12 | 20 A | 1 | | | | | 540 | 180 | 1 | 20 A | 1-#12, 1-#12, 1-#12 | PUMP RP-1 | 6 |
| 7 | BATHROOM EXHAUST FANS | 1-#12, 1-#12, 1-#12 | 20 A | 1 | 700 | 300 | | | | | 1 | 20 A | 1-#12, 1-#12, 1-#12 | WATER HEATER GWH-1 | 8 |
| 9 | APARATUS BAY RECEPTACLES | 1-#12, 1-#12, 1-#12 | 20 A | 1 | | | 360 | 600 | | | 1 | 20 A | 1-#12, 1-#12, 1-#12 | MOTORIZED DAMPERS | 10 |
| 11 | APARATUS BAY RECEPTACLES | 1-#12, 1-#12, 1-#12 | 20 A | 1 | | | | | 540 | 120 | 1 | 20 A | 1-#12, 1-#12, 1-#12 | DOOR ACCESS CONTROLLER | 12 |
| 13 | APARATUS BAY RECEPTACLES | 1-#12, 1-#12, 1-#12 | 20 A | 1 | 540 | 0 | | | | | 1 | 20 A | -- | SPARE | 14 |
| 15 | APARATUS BAY OH DOOR | 1-#10, 1-#10, 1-#10 | 20 A | 1 | | | 1176 | 580 | | | 1 | 20 A | 1-#12, 1-#12, 1-#12 | LIGHTING - APPARATUS BAYS 106 | 16 |
| 17 | APARATUS BAY OH DOOR | 1-#10, 1-#10, 1-#10 | 20 A | 1 | | | | | 1176 | 580 | 1 | 20 A | 1-#12, 1-#12, 1-#12 | LIGHTING - APPARATUS BAYS 106 | 18 |
| 19 | STORAGE BAY RECEPTACLES | 1-#12, 1-#12, 1-#12 | 20 A | 1 | 540 | 820 | | | | | 1 | 20 A | 1-#10, 1-#10, 1-#10 | LIGHTING - APPARATUS BAYS 106 | 20 |
| 21 | APARATUS BAY OH DOOR | 1-#12, 1-#12, 1-#12 | 20 A | 1 | | | 1176 | 450 | | | 1 | 20 A | 1-#10, 1-#10, 1-#10 | LIGHTING | 22 |
| 23 | STORAGE BAY RECEPTACLES | 1-#12, 1-#12, 1-#12 | 20 A | 1 | | | | | 360 | 80 | 1 | 20 A | 1-#12, 1-#12, 1-#12 | SIGNAGE LIGHTS | 24 |
| 25 | STORAGE BAY OH DOOR | 1-#12, 1-#12, 1-#12 | 20 A | 1 | 1176 | 645 | | | | | 1 | 20 A | 1-#10, 1-#10, 1-#10 | FRONT EXTERIOR LIGHTING | 26 |
| 27 | STORAGE BAY OH DOOR | 1-#12, 1-#12, 1-#12 | 20 A | 1 | | | 1176 | 160 | | | 1 | 20 A | 1-#12, 1-#12, 1-#12 | FLAG LIGHTS | 28 |
| 29 | STORAGE BAY CORD REELS | 1-#12, 1-#12, 1-#12 | 20 A | 1 | | | | | 720 | 1590 | 1 | 20 A | 1-#6, 1-#6, 1-#6 | EXTERIOR POLE LIGHTS | 30 |
| 31 | EXHAUST FAN EF-9 | 2-#12, 1-#12, 1-#12 | 20 A | 2 | 606 | 120 | | | | | 1 | 20 A | 1-#12, 1-#12, 1-#12 | FRONT SIGN LETTERS | 32 |
| 33 | -- | -- | -- | -- | | | 606 | 0 | | | 1 | 20 A | -- | SPARE | 34 |
| 35 | EXHAUST FAN EF-8 | 2-#12, 1-#12, 1-#12 | 20 A | 2 | | | | | 606 | 0 | 1 | 20 A | -- | SPARE | 36 |
| 37 | -- | -- | -- | -- | 606 | 0 | | | | | 1 | 20 A | -- | SPARE | 38 |
| 39 | HVAC UNIT FC-4 | 2-#12, 1-#12, 1-#12 | 20 A | 2 | | | 520 | 0 | | | 1 | 20 A | -- | SPARE | 40 |
| 41 | -- | -- | -- | -- | | | | | 520 | 0 | 1 | 20 A | -- | SPARE | 42 |
| 43 | HVAC UNIT FC-5 | 2-#12, 1-#12, 1-#12 | 20 A | 2 | 520 | 0 | | | | | 1 | 20 A | -- | SPARE | 44 |
| 45 | -- | -- | -- | -- | | | 520 | 0 | | | 1 | 20 A | -- | SPARE | 46 |
| 47 | EXTERIOR RECEPTACLES | 1-#12, 1-#12, 1-#12 | 20 A | 1 | | | | | 540 | 0 | 1 | 20 A | -- | SPARE | 48 |
| 49 | EXTERIOR RECEPTACLES | 1-#12, 1-#12, 1-#12 | 20 A | 1 | 360 | 2500 | | | | | 2 | 50 A | 2-#8, 1-#8, 1-#10 | MOBILE COMMAND CENTER RECEPT | 50 |
| 51 | EXTERIOR RECEPTACLES | 1-#12, 1-#12, 1-#12 | 20 A | 1 | | | 540 | 2500 | | | -- | -- | -- | -- | 52 |
| 53 | EXTERIOR RECEPTACLES | 1-#12, 1-#12, 1-#12 | 20 A | 1 | | | | | 720 | 0 | 2 | 20 A | -- | SPARE | 54 |
| 55 | EXTERIOR RECEPTACLES | 1-#12, 1-#12, 1-#12 | 20 A | 1 | 360 | 0 | | | | | -- | -- | -- | -- | 56 |
| 57 | SPARE | -- | 20 A | 1 | | | 0 | 0 | | | 2 | 30 A | -- | SPARE | 58 |
| 59 | SPARE | -- | 20 A | 1 | | | | | 0 | 0 | -- | -- | -- | -- | 60 |
| | | | | | **TOTAL LOAD (VA):** | | 10912 | | 10729 | | 8062 | | | | |
| | | | | | **TOTAL CURRENT (A):** | | 94 | | 93 | | 67 | | | | |

**TOTAL CONNECTED LOAD:** 29678 VA
**TOTAL CONNECTED CURRENT:** 82 A
**ESTIMATED DEMAND LOAD:** 30526 VA
**ESTIMATED DEMAND CURRENT:** 85 A

**NOTES:**

# PANEL MDP

**LOCATION:** ELECTRICAL 119
**SUPPLY SOURCE:** UTILITY METER
**VOLTAGE:** 120/208 Wye
**BUS:** 400 A
**MAINS RATING:** 400 A
**MAINS TYPE:** MLO

**BRANCHES:** BOLT-ON
**POLES:** 30
**MOUNTING:** Surface
**ENCLOSURE:** NEMA 1
**ACCESSORIE...**

___ SHUNT TRIP MAIN CB
___ SERVICE ENTRANCE RATED
___ UL LISTED FEED-THROUGH LUGS
___ UL LISTED SUB-FEED LUGS
___ ISOLATED GROUND BAR

**AVAILABLE AIC:** 5,660
**AIC RATING:** 10,000

___ SERIES RATED
X FULLY RATED

| CKT# | DESCRIPTION | WIRE SIZE | TRIP | POLES | A | | B | | C | | POLES | TRIP | WIRE SIZE | DESCRIPTION | CKT# |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PANEL P1 | 3-#4/0, 1-#4/0, 1-#4 | 225 A | 3 | 9537 | 10912 | | | | | 3 | 225 A | 3-#4/0, 1-#4/0, 1-#4 | PANELS P2 | 2 |
| 3 | -- | -- | -- | -- | | | 9423 | 10729 | | | -- | -- | -- | -- | 4 |
| 5 | -- | -- | -- | -- | | | | | 8590 | 8062 | -- | -- | -- | -- | 6 |
| 7 | PROVISION (200A FRAME) | -- | 200 A | 3 | 0 | 12230 | | | | | 3 | 225 A | 3-#4/0, 1-#4/0, 1-#4 | PANEL P3 | 8 |
| 9 | -- | -- | -- | -- | | | 0 | 9339 | | | -- | -- | -- | -- | 10 |
| 11 | -- | -- | -- | -- | | | | | 0 | 8674 | -- | -- | -- | -- | 12 |
| 13 | HVAC UNIT FC-1 | 2-#4, 1-#4, 1-#8 | 70 A | 2 | 5020 | 0 | | | | | 3 | 100 A | -- | PROVISION (100A FRAME) | 14 |
| 15 | -- | -- | -- | -- | | | 5020 | 0 | | | -- | -- | -- | -- | 16 |
| 17 | HVAC UNIT FC-2 | 2-#4, 1-#4, 1-#8 | 70 A | 2 | | | | | 5520 | 0 | -- | -- | -- | -- | 18 |
| 19 | -- | -- | -- | -- | 5520 | 0 | | | | | 2 | 100 A | -- | PROVISION (100A FRAME) | 20 |
| 21 | HVAC UNIT FC-3 | 2-#3, 1-#3, 1-#8 | 100 A | 2 | | | 8020 | 0 | | | -- | -- | -- | -- | 22 |
| 23 | -- | -- | -- | -- | | | | | 8020 | 0 | 2 | 100 A | -- | PROVISION (100A FRAME) | 24 |
| 25 | PROVISION (100A FRAME) | -- | 100 A | 3 | 0 | 0 | | | | | -- | -- | -- | -- | 26 |
| 27 | -- | -- | -- | -- | | | 0 | 0 | | | 2 | 100 A | -- | PROVISION (100A FRAME) | 28 |
| 29 | -- | -- | -- | -- | | | | | 0 | 0 | -- | -- | -- | -- | 30 |
| | | | | | **TOTAL LOAD (VA):** | | 43174 | | 42527 | | 38810 | | | | |
| | | | | | **TOTAL CURRENT (A):** | | 365 | | 359 | | 323 | | | | |

**TOTAL CONNECTED LOAD:** 124506 VA
**TOTAL CONNECTED CURRENT:** 346 A
**ESTIMATED DEMAND LOAD:** 112472 VA
**ESTIMATED DEMAND CURRENT:** 312 A

**NOTES:**

# PANEL P3

**LOCATION:**
**SUPPLY SOURCE:** MDP
**VOLTAGE:** 120/208 Wye
**BUS:** 225 A
**MAINS RATING:** 225 A
**MAINS TYPE:** MLO

**BRANCHES:** BOLT-ON
**POLES:** 24
**MOUNTING:** Surface
**ENCLOSURE:** NEMA 3R
**ACCESSORIE...**

___ SHUNT TRIP MAIN CB
___ SERVICE ENTRANCE RATED
___ UL LISTED FEED-THROUGH LUGS
___ UL LISTED SUB-FEED LUGS
___ ISOLATED GROUND BAR

**AVAILABLE AIC:** 4,398
**AIC RATING:** 10,000

___ SERIES RATED
X FULLY RATED

| CKT# | DESCRIPTION | WIRE SIZE | TRIP | POLES | A | | B | | C | | POLES | TRIP | WIRE SIZE | DESCRIPTION | CKT# |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HVAC UNIT CU-1 | 2-#12, 1-#12, 1-#12 | 20 A | 2 | 1508 | 2028 | | | | | 2 | 35 A | 2-#8, 1-#8, 1-#10 | HVAC UNIT CU-2 | 2 |
| 3 | -- | -- | -- | -- | | | 1508 | 2028 | | | -- | -- | -- | -- | 4 |
| 5 | HVAC UNIT CU-3 | 2-#8, 1-#8, 1-#10 | 40 A | 2 | | | | | 2891 | 2891 | 2 | 40 A | 2-#8, 1-#8, 1-#10 | HVAC UNIT CU-4 | 6 |
| 7 | -- | -- | -- | -- | 2891 | 2891 | | | | | -- | -- | -- | -- | 8 |
| 9 | HVAC UNIT CU-5 | 2-#8, 1-#8, 1-#10 | 40 A | 2 | | | 2891 | | | | | | | | 10 |
| 11 | -- | -- | -- | -- | | | | | 2891 | | | | | | 12 |
| 13 | HVAC UNIT CU-7 | 2-#8, 1-#8, 1-#10 | 40 A | 2 | 2912 | 0 | | | | | -- | -- | -- | PROVISIONS | 14 |
| 15 | -- | -- | -- | -- | | | 2912 | 0 | | | -- | -- | -- | PROVISIONS | 16 |
| 17 | APPARATUS BAY EXHAUST FAN EF-10 | 3-#8, 1-#8, 1-#10 | 35 A | 3 | | | | | 0 | 0 | -- | -- | -- | PROVISIONS | 18 |
| 19 | -- | -- | -- | -- | 0 | 0 | | | | | -- | -- | -- | PROVISIONS | 20 |
| 21 | -- | -- | -- | -- | | | 0 | 0 | | | -- | -- | -- | PROVISIONS | 22 |
| 23 | SPARE | -- | 20 A | 1 | | | | | 0 | 0 | -- | -- | -- | PROVISIONS | 24 |
| | | | | | **TOTAL LOAD (VA):** | | 12230 | | 9339 | | 8674 | | | | |
| | | | | | **TOTAL CURRENT (A):** | | 103 | | 79 | | 72 | | | | |

**TOTAL CONNECTED LOAD:** 30243 VA
**TOTAL CONNECTED CURRENT:** 84 A
**ESTIMATED DEMAND LOAD:** 30243 VA
**ESTIMATED DEMAND CURRENT:** 84 A

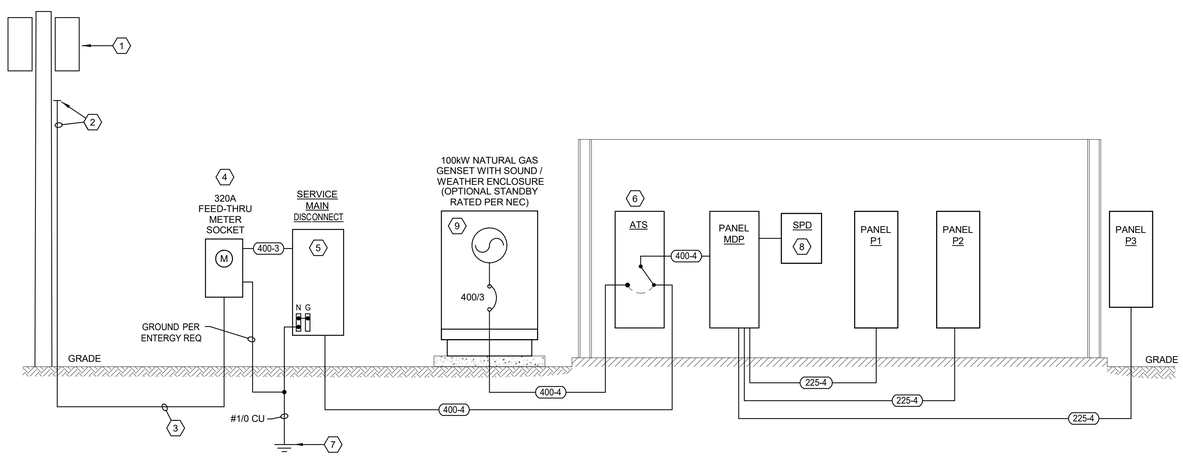
**NOTES:**

## FEEDER SCHEDULE 3-PHASE, 4-WIRE

| TYPE | COPPER CONDUCTORS | ALUMINUM CONDUCTORS |
|---|---|---|
| 15-4 | 4#12, 1#12(G), 3/4" C | N/A |
| 20-4 | 4#12, 1#12(G), 3/4" C | N/A |
| 25-4 | 4#10, 1#10(G), 3/4" C | N/A |
| 30-4 | 4#10, 1#10(G), 3/4" C | N/A |
| 35-4 | 4#8, 1#10(G), 3/4" C | N/A |
| 40-4 | 4#8, 1#10(G), 3/4" C | N/A |
| 45-4 | 4#8, 1#10(G), 3/4" C | N/A |
| 50-4 | 4#8, 1#10(G), 3/4" C | N/A |
| 60-4 | 4#6, 1#10(G), 1" C | N/A |
| 70-4 | 4#4,1#8(G), 1-1/4" C | N/A |
| 80-4 | 4#4,1#8(G), 1-1/4" C | N/A |
| 90-4 | 4#3,1#8(G), 1-1/4" C | N/A |
| 100-4 | 4#3,1#8(G), 1-1/4" C | N/A |
| 110-4 | 4#2,1#6(G), 1-1/4" C | N/A |
| 125-4 | 4#1, 1#6(G), 1-1/2" C | N/A |
| 150-4 | 4#1/0, 1#6(G), 2" C | 4#3/0, 1#6(G), 2" C |
| 175-4 | 4#2/0, 1#6(G), 2" C | 4#4/0, 1#6(G), 2-1/2" C |
| 200-4 | 4#3/0, 1#6(G), 2" C | 4#250, 1#6(G), 2-1/2"C |
| 225-4 | 4#4/0, 1#4(G), 2-1/2" C | 4#300, 1#4(G), 2-1/2"C |
| 250-4 | 4#250, 1#4(G), 2-1/2" C | 4#350, 1#4(G), 3" C |
| 300-4 | 4#350, 1#4(G), 3" C | 4#500, 1#4(G), 3-1/2" C |
| 350-4 | 4#400, 1#3(G), 3" C | 2 SETS OF 4#4/0, 1#3(G), 2-1/2"C |
| 400-4 | 4#500, 1#3(G), 3-1/2" C | 2 SETS OF 4#250, 1#3(G), 2-1/2"C |
| 500-4 | 2 SETS OF 4#250, 1#2(G), 2-1/2" C | 2 SETS OF 4#350, 1#2(G), 3" C |
| 600-4 | 2 SETS OF 4#350, 1#1(G), 3" C | 2 SETS OF 4#500, 1#1(G), 3-1/2" C |
| 700-4 | 2 SETS OF 4#400, 1#1/0(G), 3" C | 3 SETS OF 4#300, 1#1/0(G), 2-1/2"C |
| 800-4 | 2 SETS OF 4#500, 1#1/0(G), 3-1/2" C | 3 SETS OF 4#400, 1#1/0(G), 3"C |

## FEEDER SCHEDULE 3-PHASE, 3-WIRE (NO NEUTRAL) AND 1-PHASE, 3-WIRE

| TYPE | COPPER CONDUCTORS | ALUMINUM CONDUCTORS |
|---|---|---|
| **15-3** | 3#12, 1#12(G), 3/4" C | N/A |
| **20-3** | 3#12, 1#12(G), 3/4" C | N/A |
| **25-3** | 3#10, 1#10(G), 3/4" C | N/A |
| **30-3** | 3#10, 1#10(G), 3/4" C | N/A |
| **35-3** | 3#8, 1#10(G), 3/4" C | N/A |
| **40-3** | 3#8, 1#10(G), 3/4" C | N/A |
| **45-3** | 3#8, 1#10(G), 3/4" C | N/A |
| **50-3** | 3#8, 1#10(G), 3/4" C | N/A |
| **60-3** | 3#6, 1#10(G), 1" C | N/A |
| **70-3** | 3#4,1#8(G), 1-1/4" C | N/A |
| **80-3** | 3#4,1#8(G), 1-1/4" C | N/A |
| **90-3** | 3#3,1#8(G), 1-1/4" C | N/A |
| **100-3** | 3#3,1#8(G), 1-1/4" C | N/A |
| **110-3** | 3#2,1#6(G), 1-1/4" C | N/A |
| **125-3** | 3#1, 1#6(G), 1-1/2" C | N/A |
| **150-3** | 3#1/0, 1#6(G), 2" C | 3#3/0, 1#6(G), 2" C |
| **175-3** | 3#2/0, 1#6(G), 2" C | 3#4/0, 1#6(G), 2-1/2" C |
| **200-3** | 3#3/0, 1#6(G), 2" C | 3#250, 1#6(G), 2-1/2"C |
| **225-3** | 3#4/0, 1#4(G), 2-1/2" C | 3#300, 1#4(G), 2-1/2"C |
| **250-3** | 3#250, 1#4(G), 2-1/2" C | 3#350, 1#4(G), 3" C |
| **300-3** | 3#350, 1#4(G), 3" C | 3#500, 1#4(G), 3-1/2" C |
| **350-3** | 3#400, 1#3(G), 3" C | 2 SETS OF 3#4/0, 1#3(G), 2-1/2"C |
| **400-3** | 3#500, 1#3(G), 3-1/2" C | 2 SETS OF 3#250, 1#3(G), 2-1/2"C |
| **500-3** | 2 SETS OF 3#250, 1#2(G), 2-1/2" C | 2 SETS OF 3#350, 1#2(G), 3" C |
| **600-3** | 2 SETS OF 3#350, 1#1(G), 3" C | 2 SETS OF 3#500, 1#1(G), 3-1/2" C |
| **700-3** | 2 SETS OF 3#400, 1#1/0(G), 3" C | 3 SETS OF 3#300, 1#1/0(G), 2-1/2"C |
| **800-3** | 2 SETS OF 3#500, 1#1/0(G), 3-1/2" C | 3 SETS OF 3#400, 1#1/0(G), 3"C |




1 POWER RISER DIAGRAM
E601 N.T.S.

## # SHEET REFERENCE NOTES

1. NEW 208Y/120V, 3-PHASE TRANSFORMER BANK POLE BY ENTERGY. COORDINATE WITH ENTERGY FOR ALL REQUIREMENTS RELATED TO ESTABLISHING SERVICE AND ADJUST WORK ACCORDINGLY.
2. RISE AND TERMINATE ON POLE PER UTILITY REQUIREMENTS.
3. 2-4" EMPTY CONDUITS WITH PULL STRINGS. INSTALL PER ENTERGY REQUIREMENTS. CONFIRM CONDUIT SIZE AND QUANTITY WITH ENTERGY.
4. PROVIDE UTILITY METERING AS REQUIRED BY ENTERGY INCLUDING METER SOCKET, ENLOSURES, CABINETS, ETC.
5. 400A/3P, 100% RATED, 208Y/120V 3-PH, 4W, NEMA 3R ENCLOSED CIRCUIT BREAKER. SERVICE ENTRANCE RATED GROUND PER NEC ARTICLE 250.32.
6. 400A/3P, 208Y/120V 3-PH, 4W AUTOMATIC TRANSFER SWITCH. 3-POLE, CLOSED TRANSITION, WITH NEMA 1 ENLOSURE.
7. GROUNDING ELECTRODE CONDUCTOR. SEE GROUNDING SYSTEM DETAIL
8. 200kAIC SURGE PROTECTIVE DEVICE. PROVIDE CIRCUIT BREAKER IN PANEL MDP TO FEED SPD PER MANUFACTURER'S REQUIREMENTS.
9. GENERATOR TO BE PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR.


MOSES ENGINEERS
CONSULTING ENGINEERS
909 Poydras Street, Suite 2150
New Orleans, Louisiana 70112-1034
Tel. 504-586-1725
Fax 855-327-4815

SIZELER THOMPSON BROWN ARCHITECTS
SIZELER THOMPSON BROWN ARCHITECTS
REGIONAL DESIGN GROUP, LLC
300 LAFAYETTE STREET, SUITE 200
NEW ORLEANS, LOUISIANA 70130
(504) 523-6472 FAX (504) 529-1181


Revisions

| No. | Description | Date |
|---|---|---|
| 1 | Addendum #2 | 11/15/2018 |

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

POWER RISER DIAGRAM AND PANEL SCHEDULES

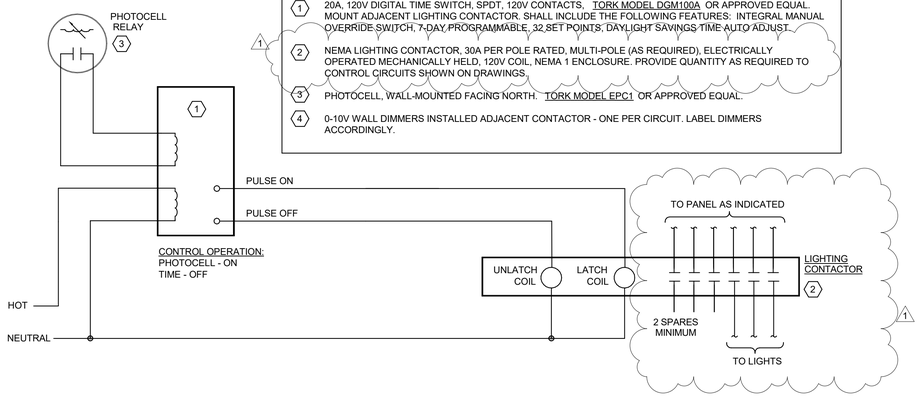
seal: STATE OF LOUISIANA — JEFFERY LAMBERT — License No. 37172 — PROFESSIONAL ENGINEER

project number: 21238.00
date: OCTOBER 15, 2018
phase: BID DOCUMENTS
drawing number: E601

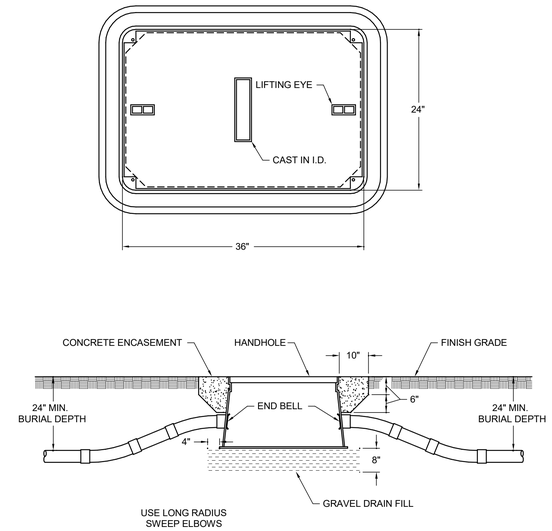
11/15/2018 12:27:33 PM

REFERENCE NOTES: (APPLICABLE TO LIGHTING CONTROL DIAGRAM)

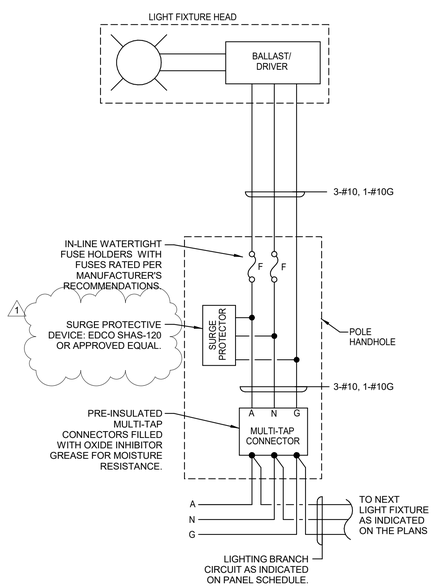
1. 20A, 120V DIGITAL TIME SWITCH, SPDT, 120V CONTACTS. TORK MODEL DGM100A OR APPROVED EQUAL. MOUNT ADJACENT LIGHTING CONTACTOR. SHALL INCLUDE THE FOLLOWING FEATURES: INTEGRAL MANUAL OVERRIDE SWITCH, 7-DAY, PROGRAMMABLE, 32 SET POINTS, DAYLIGHT SAVINGS TIME AUTO ADJUST.
2. NEMA LIGHTING CONTACTOR, 30A PER POLE RATED, MULTI-POLE (AS REQUIRED), ELECTRICALLY OPERATED MECHANICALLY HELD, 120V COIL, NEMA 1 ENCLOSURE. PROVIDE QUANTITY AS REQUIRED TO CONTROL CIRCUITS SHOWN ON DRAWINGS.
3. PHOTOCELL, WALL-MOUNTED FACING NORTH. TORK MODEL EPC1 OR APPROVED EQUAL.
4. 0-10V WALL DIMMERS INSTALLED ADJACENT CONTACTOR - ONE PER CIRCUIT. LABEL DIMMERS ACCORDINGLY.



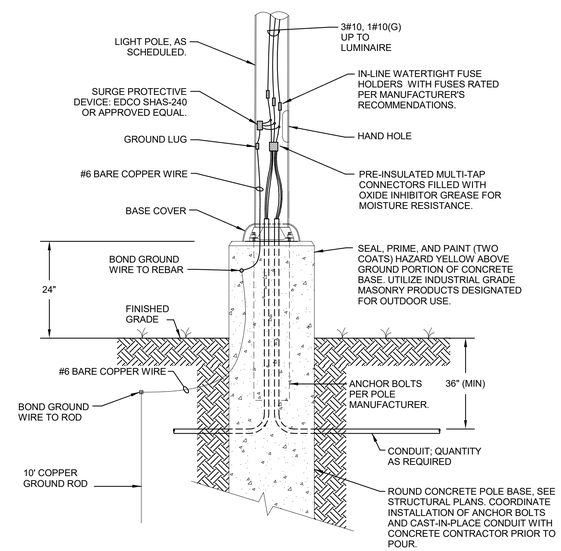

## 1 LIGHTING CONTROL SCHEMATIC - EXTERIOR LIGHTING
E802 N.T.S.




## 2 TYPICAL UNDERGROUND PULLBOX INSTALLATION DETAIL
E802 N.T.S.




## 3 POLE BASE WIRING DIAGRAM
E802 N.T.S.




LIGHT POLE FOUNDATION GENERAL NOTES:

1. POLE SHAFT SHALL MEET AASHTO LTS SPECIFICATION FOR 140mph BASIC WIND SPEED, 25 YEAR RECURRENCE INTERVAL, SUPPORTING ARMS AND LUMINAIRES AS SCHEDULED.
2. REFER TO STRUCTURAL AND CIVIL PLANS FOR ADDITIONAL CONDUIT INSTALLATION DETAILS AND INFORMATION.

## 4 LIGHT POLE BASE DETAIL
E802 N.T.S.


MOSES ENGINEERS
CONSULTING ENGINEERS
909 Poydras Street, Suite 2150
New Orleans, Louisiana 70112-1034
Tel. 504-586-1725
Fax 855-327-4815

SIZELER THOMPSON BROWN ARCHITECTS
REGIONAL DESIGN GROUP, LLC
300 LAFAYETTE STREET, SUITE 200
NEW ORLEANS, LOUISIANA 70130
(504) 523-6472 FAX (504) 529-1181


Revisions

| No. | Description | Date |
|---|---|---|
| 1 | Addendum #2 | 11/15/2018 |

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

ELECTRICAL DETAILS

seal: STATE OF LOUISIANA — JEFFERY LAMBERT, License No. 37172 — PROFESSIONAL ENGINEER

project number: 21238.00

date: OCTOBER 15, 2018

phase: BID DOCUMENTS

drawing number: E802

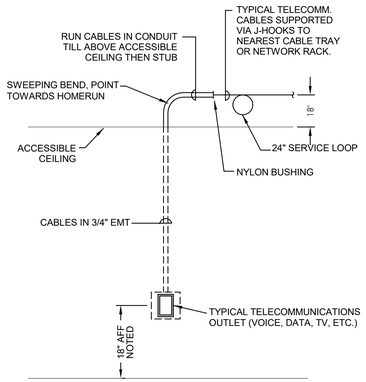
11/15/2018 11:05:43 AM

## GENERAL NOTES
(COMMUNICATIONS RISER DIAGRAM)

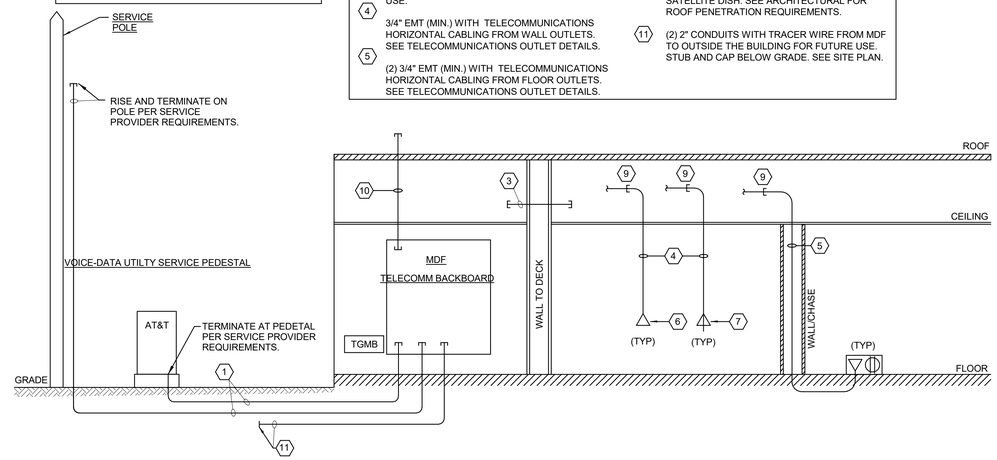
1. CONDUIT RUNS SHALL NOT EXCEED 295 FEET FROM OUTLET BOX TO BACKBOARD.
2. UTILIZE SWEEPING GRC BENDS ON 90'S OF VOICE-DATA AND CATV SERVICE RACEWAYS.
3. COORDINATE VOICE-DATA AND CATV SERVICE RACEWAY TERMINATION LOCATIONS AND INSTALLATION REQUIREMENTS WITH SERVICE PROVIDERS PRIOR TO ROUGH-IN.
2. COORDINATE WITH VOICE-DATA AND CATV SERVICE PROVIDERS THRU OWNER FOR INSTALLATION OF SERVICE CABLES.

## REFERENCE NOTES
(COMMUNICATIONS RISER DIAGRAM)

1. (1) 2" CONDUIT FOR CATV SERVICE. RUN CONDUITS 48" (MIN.) BELOW GRADE FROM FROM MDF TO TELCOMMUNICATIONS UTILITY POLE.
2. (1) 4" CONDUIT FOR VOICE-DATA FIBER SERVICE. RUN CONDUITS 48" (MIN.) BELOW GRADE FROM FROM MDF TO TELCOMMUNICATIONS UTILITY PEDESTAL.
3. 4" SLEEVES THROUGH WALLS AS REQUIRED TO ALLOW PASSAGE OF CABLES THROUGH WALLS THAT GO UP TO CEILING DECK. INSTALL (2) TWO ADDITIONAL 4" SPARE SLEEVES FOR FUTURE USE.
4. 3/4" EMT (MIN.) WITH TELECOMMUNICATIONS HORIZONTAL CABLING FROM WALL OUTLETS. SEE TELECOMMUNICATIONS OUTLET DETAILS.
5. (2) 3/4" EMT (MIN.) WITH TELECOMMUNICATIONS HORIZONTAL CABLING FROM FLOOR OUTLETS. SEE TELECOMMUNICATIONS OUTLET DETAILS.
6. TYPICAL COMMUNICATIONS OUTLET. SEE TELECOMM. OUTLET DETAIL.
7. TYPICAL TV OUTLET. SEE TELECOMM. OUTLET DETAIL.
8. TYPICAL FLOOR POWER / COMMUNICATIONS COMBO OUTLET.
9. RUN CONDUIT TO NEAREST ACCESSIBLE CEILING AND TERMINATE IN NYLON BUSHINGS OR INSULATED THROAT.
10. (2) 2" CONDUITS TO ROOF FOR FUTURE SATELLITE DISH. SEE ARCHITECTURAL FOR ROOF PENETRATION REQUIREMENTS.
11. (2) 2" CONDUITS WITH TRACER WIRE FROM MDF TO OUTSIDE THE BUILDING FOR FUTURE USE. STUB AND CAP BELOW GRADE. SEE SITE PLAN.




2 TELECOMMUNICATIONS OUTLET INSTALLATION DETAIL
E805 N.T.S.




1 TELECOMMUNICATIONS RISER DIAGRAM
E805 N.T.S.

COMMUNICATIONS OUTLET (CO) NOMENCLATURE*

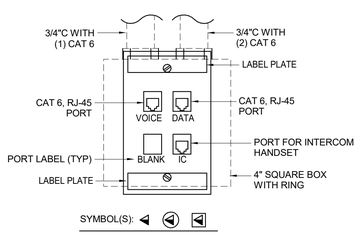
PPA - 105 - A

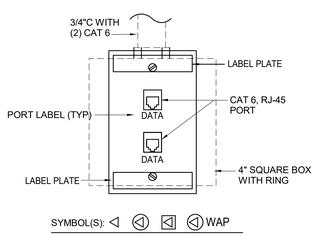
SOURCE PATCH PANEL IDENTIFIER — OUTLET ROOM NUMBER — OUTLET IDENTIFIER (ROOMS WITH TWO OR MORE OUTLETS ONLY)

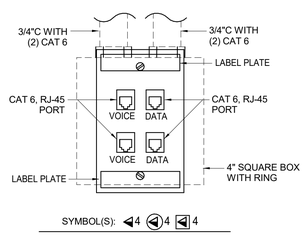
EXAMPLE

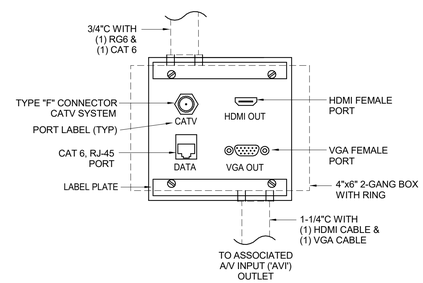
PPA-105-A INDICATES OUTLET "A" LOCATED IN ROOM 105 AND SERVED BY PATCH PANEL PPA

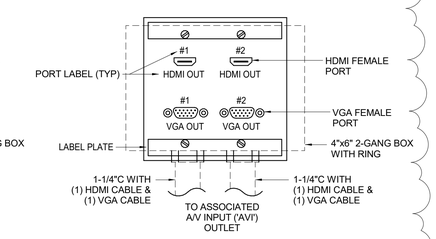
*COORDINATE WITH OWNER'S IT TECHNICHIAN(S) PRIOR TO COMMENCING WORK FOR EXACT LABELING NOMENCLATURE REQUIREMENTS.

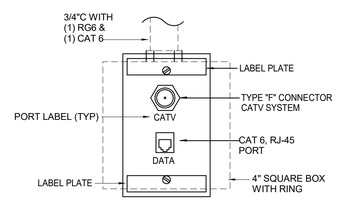


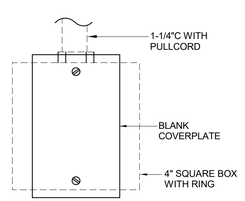



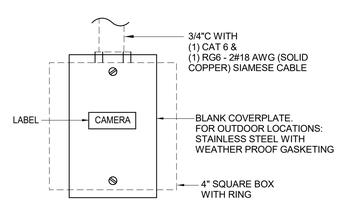



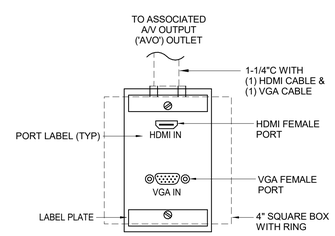




3 TELECOMMUNICATIONS OUTLET DETAILS
E805 N.T.S.


MOSES ENGINEERS
CONSULTING ENGINEERS
909 Poydras Street, Suite 2150
New Orleans, Louisiana 70112-1034
Tel. 504-586-1725
Fax 855-327-4815

SIZELER THOMPSON BROWN ARCHITECTS
SIZELER THOMPSON BROWN ARCHITECTS
REGIONAL DESIGN GROUP, LLC
300 LAFAYETTE STREET, SUITE 200
NEW ORLEANS, LOUISIANA 70130
(504) 523-6472 FAX (504) 529-1181


Revisions

| No. | Description | Date |
|---|---|---|
| 1 | Addendum #2 | 11/15/2018 |

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

ELECTRICAL DETAILS

seal: STATE OF LOUISIANA — JEFFERY LAMBERT — License No. 37172 — PROFESSIONAL ENGINEER

project number: 21238.00

date: OCTOBER 15, 2018

phase: BID DOCUMENTS

drawing number: E805