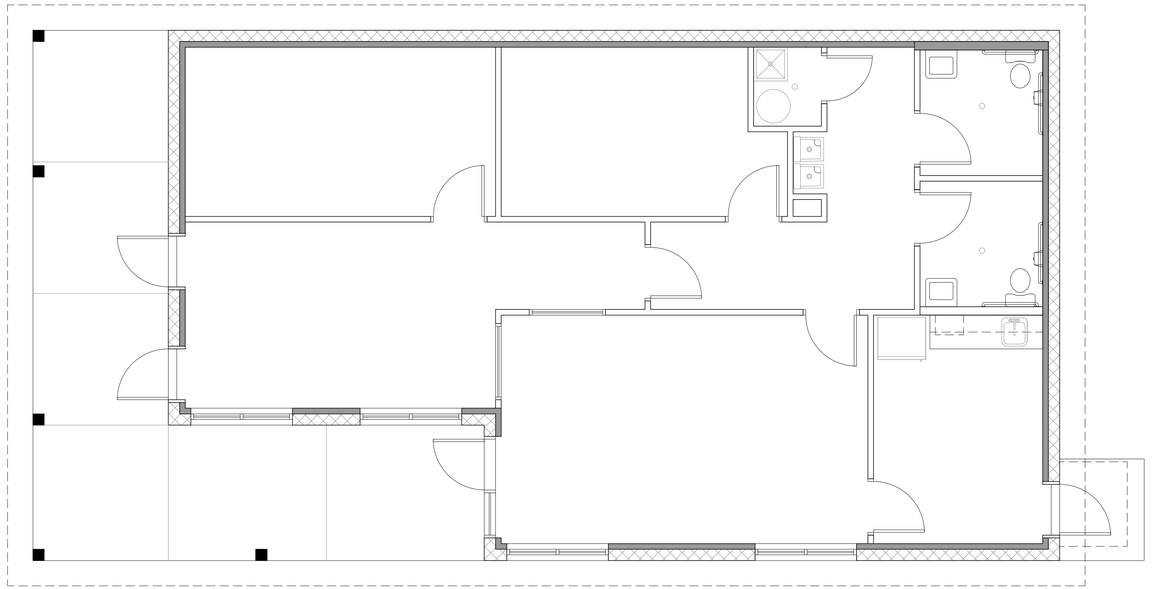
CF INDUSTRIES - BLUE SAPPHIRE PROJECT

NEW GUARDHOUSE BUILDING

39018 LA-3089 DONALDSONVILLE, LOUISIANA 70346

OWNER:
CF INDUSTRIES
CONTRACTOR:
TBD



PROJECT DATA:

PROJECT DESCRIPTION:

THE PROJECT CONSISTS OF A GROUND UP 1,500 SF CMU BUILDING WITH AN ARCHITECTURAL STANDING SEAM METAL PANEL ROOFING SYSTEM. THE BUILDING WILL BE USED AS GUARDHOUSE FOR CF INDUSTRIES

APPLICABLE CODES:

-INTERNATIONAL BUILDING CODE (IBC), 2021 ED.
-NATIONAL ELECTRIC CODE - NFPA 70, 2020 ED.
-INTERNATIONAL MECHANICAL CODE (IBC), 2021
-LOUISIANA STATE PLUMBING CODE, 2021

-CONSTRUCTION TYPE:
IBC - IIB (NON-SPRINKLERED)

-OCCUPANCY CLASSIFICATION:
IBC = BUSINESS GROUP B - (OFFICE)

PLUMBING IBC 2021:
WATER CLOSETS
BUSINESS = 1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50
LAVATORIES
BUSINESS = 1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80

REQUIREMENTS FOR BUILDING DESIGN:

WIND LOAD = CF INDUSTRIES STANDARD
1. WIND SPEED (Vult) & FACTOR
-135 MPH
-Kzt = 1.0 and Kd = 1.0
-Kz = As per Table 27.3-1 (ASCE7-10 Exposure Category C)
2. RISK Catagory: III
3. WIND Exposure Catagory: C

SEISMIC REQUIREMENTS - CF INDUSTRIES STANDARDS
1. RISK Category: III
2. Seismic Importance Factor: 1.25
3. Site Class: E
4. Seismic Design Category: C

SYMBOL LEGEND:

- ℄ - CENTER LINE
- BREAK LINE
- 1 / A - COLUMN GRID
- ROOM NAME / XXX - ROOMNAME & NUMBER
- X - WINDOW TAG
- 111A - DOOR NUMBER TAG
- 1 - KEYNOTE / GENERAL NOTE
- X/AX.X.X - INTERIOR/EXTERIOR ELEVATION
- 0'-0" F.F. - ELEVATION TAG (BUILDING SECTION)
- FE - FIRE EXTINGUISHER (CODE PLAN)
- EXIT - EXIT SIGN (CODE PLAN)
- DETAIL TAG (WALL SECTION) / ENLARGED PLAN (PLAN) / WALL SECTION (BUILDING SECTION) — X/AX.XX SIM.
- REVISION CLOUD — A
- X/AX.X.X - BUILDING SECTION (PLAN)
- X/AX.X.X - BUILDING SECTION (ELEVATION) / WALL SECTION (PLAN) / ROOF DETAIL (ROOF PLAN) / HEAD, JAMB & SILL DETAIL (DOOR & WINDOW TYPES)
- PT-X - WALL PARTITION (PLAN)

DRAWING TITLE — X/X"=1'-0" (X)

PLAN:

DRAWING INDEX:

T0.01 TITLE SHEET / INDEX (PROJECT)

ARCHITECTURAL DRAWINGS:
A0.01 SUPPLEMENTAL INFORMATION
A0.02 GENERAL SPECIFICATIONS
A0.03 GENERAL SPECIFICATIONS
A1.02 FLOOR PLAN / MILLWORK
A1.03 REFLECTED CEILING PLAN
A1.04 ROOF PLAN / FRAMING PLAN
A1.05 FINISH PLAN
A2.01 EXTERIOR ELEVATIONS
A3.01 BUILDING SECTIONS
A3.02 WALL SECTIONS / P-TYPES
A6.01 SCHEDULES

ELECTRICAL DRAWINGS:
E1.1 ELECTRICAL LEGENDS & NOTES
E2.1 POWER PLAN
E3.1 LIGHTING PLAN
E4.1 RISER DIAGRAM & PANEL SCHEDULE

MECHANICAL DRAWINGS:
M0.01 MECHANICAL NOTES
M2.10 MECHANICAL PLAN
M3.0 MECHANICAL DETAIL

PLUMBING DRAWINGS:
P0.01 PLUMBING NOTES
P2.10 PLUMBING PLAN
P2.20 SANITARY PLAN
P3.0 RISER DIAGRAM
P4.0 PLUMBING DETAILS

STRUCTURAL DRAWINGS:
S0.1 GENERAL NOTES
S1.1 FOUNDATION AND SLAB PLAN
S1.2 STRUCTURAL WALL PLAN
S1.3 ROOF FRAMING PLAN
S2.1 FOUNDATION DETAILS
S2.2 TYPICAL DETAILS

MKE ARCHITECTS
MKE ARCHITECTS
9800 Airline Highway, Suite 217
Baton Rouge , Louisiana 70816
Office: 225-412-0046
www.mkearchitects.com
Contact: Kirk Edwards, AIA

Consultants Information:

Mechanical and Electrical:
GSE, INC.
1816 Pass Road
Gulfport, MS 39501
(228)864-5050
Contact: Dylan Wade, PE

Structural:
GSE, INC.
1816 Pass Road
Gulfport, MS 39501
(228)864-5050
Contact: Ahmad Omar, PE

Project Title:
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BLUE SAPPHIRE
GUARD SHACK.

Project Location:
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DONALDSONVILLE, LA 70346

Sheet Revisions:

No.	Date	Description

Sheet Name:
TITLE SHEET

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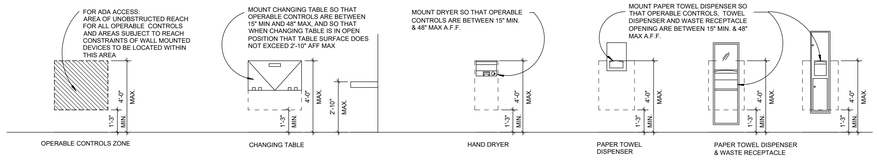
Project Number:
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Document Phase:
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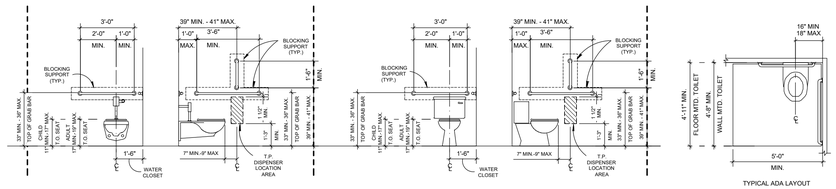
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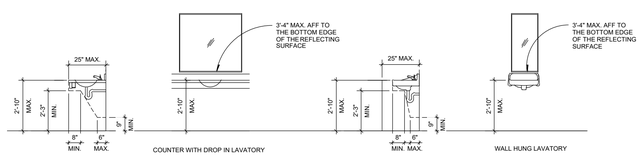
TYPICAL ADA RESTROOM REQUIREMENTS

N.T.S. 8



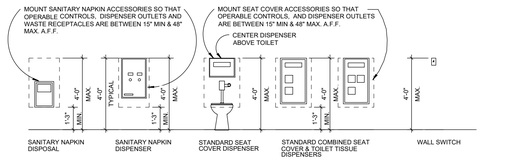
TYPICAL ADA RESTROOM REQUIREMENTS

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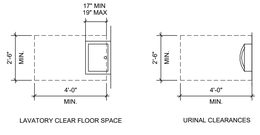
TYPICAL ADA RESTROOM REQUIREMENTS

N.T.S. 6



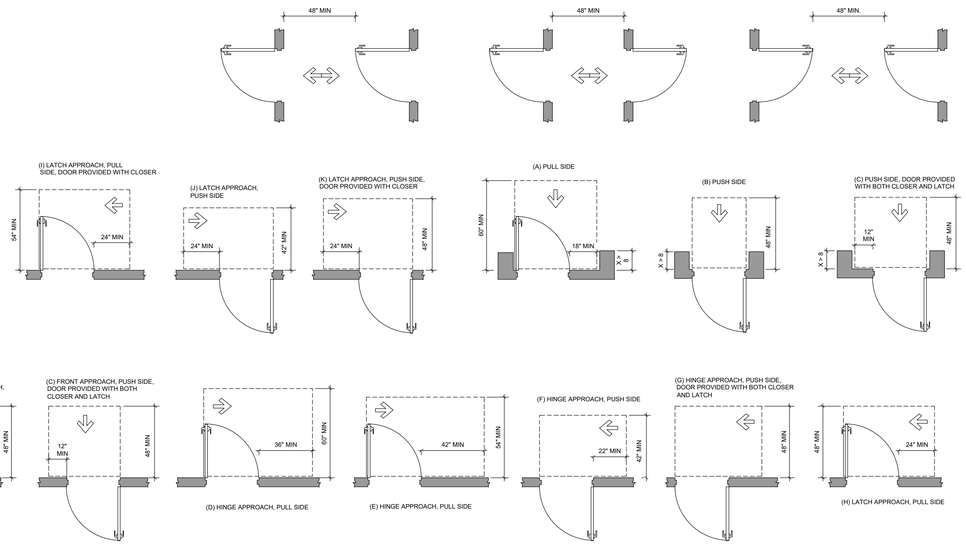
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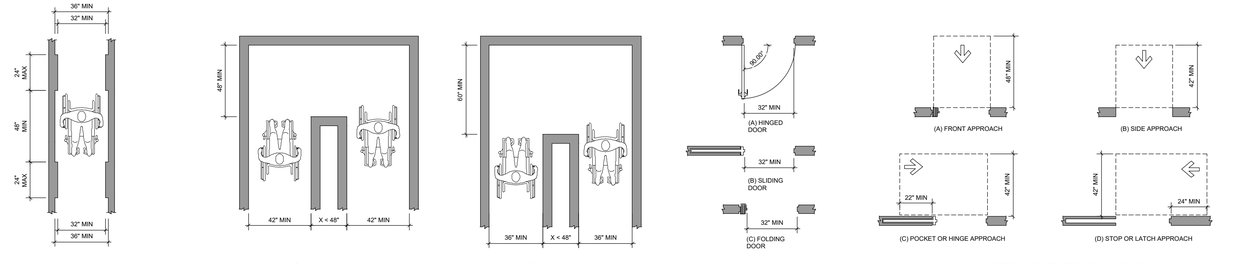
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N.T.S. 4



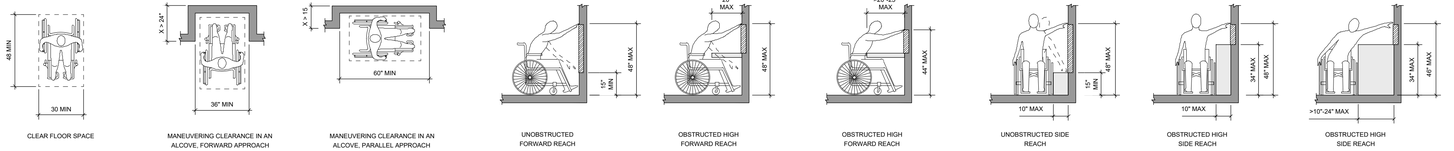
TYPICAL ADA DOOR REQUIREMENTS

N.T.S. 2



TYPICAL ADA CLEARANCE REQUIREMENTS

N.T.S. 1



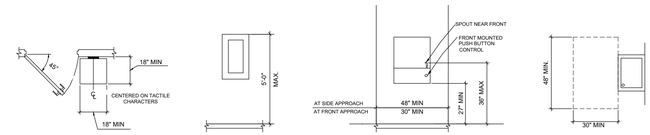
GENERAL SHEET NOTES:

-Provide access for persons with disabilities in accordance with the ADA-ABA Accessibility Guidelines, July 23, 2004 (also known as the 2010 Standards).

-Where signage identifies permanent rooms or spaces OR EXITS, the signage shall comply with Sections 703.1 -703.5 (raised characters, Braille, visual characteristics, height).

-Thresholds shall comply with requirements of this section regarding changes in level. (Not more than 1/2" height and beveled if over 1/4")

-Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 309.4. Hardware shall not require tight grasping, tight pinching, or twisting of the wrist to operate.



TYPICAL ADA MOUNTING REQUIREMENTS

N.T.S. 3

MKE ARCHITECTS
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9800 Airline Highway, Suite 217
Baton Rouge , Louisiana 70816
Office: 225-412-0048
www.mkearchitects.com
Contact: Kirk Edwards, AIA

Consultants Information:

Mechanical and Electrical:
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GENERAL PROJECT SPECIFICATIONS:

SECTION 061000 - ROUGH CARPENTRY

PART 1 - GENERAL

RELATED DOCUMENTS

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

SUMMARY

Section Includes:

Fire-Retardant-Treated Materials

QUALITY ASSURANCE

Testing Agency Qualifications: For testing agency providing classification marking for fire- retardant treated material, an inspection agency acceptable to authorities having jurisdiction that periodically performs inspections to verify that the material bearing the classification marking is representative of the material tested.

DELIVERY, STORAGE, AND HANDLING

Stack wood products flat with spacers beneath and between each bundle to provide air circulation. Protect wood products from weather by covering with waterproof sheeting, securely anchored. Provide for air circulation around stacks and under coverings.

PART 2 - PRODUCTS

FIRE-RETARDANT-TREATED MATERIALS

General: Where fire-retardant-treated materials are indicated, materials shall comply with requirements in this article, that are acceptable to authorities having jurisdiction, and with fire- test-response characteristics specified as determined by testing identical products per test method indicated by a qualified testing agency.

Fire-Retardant-Treated Lumber and Plywood by Pressure Process: Products with a flame-spread index of 25 or less when tested according to ASTM E 84, and with no evidence of significant progressive combustion when the test is extended an additional 20 minutes, and with the flame front not extending more than 10.5 feet (3.2 m) beyond the centerline of the burners at any time during the test.

Treatment shall not promote corrosion of metal fasteners.
Exterior Type: Treated materials shall comply with requirements specified above for fire- retardant-treated lumber and plywood by pressure process after being subjected to accelerated weathering according to ASTM D 2898. Use for exterior locations and where indicated.
Interior Type A: Treated materials shall have a moisture content of 28 percent or less when tested according to ASTM D 3201 at 92 percent relative humidity. Use where exterior type is not indicated.
Design Value Adjustment Factors: Treated lumber shall be tested according to ASTM D 5664 and design value adjustment factors shall be calculated according to ASTM D 6841

Kiln-dry lumber after treatment to maximum moisture content of 19 percent. Kiln-dry plywood after treatment to maximum moisture content of 15 percent.

Identify fire-retardant-treated wood with appropriate classification marking of qualified testing agency.

For exposed lumber indicated to receive a stained or natural finish, omit marking and provide certificates of treatment compliance issued by testing agency

For exposed items indicated to receive a stained or natural finish, chemical formulations shall not bleed through, contain colorants, or otherwise adversely affect finishes.

Framing for raised platforms.

SECTION 064116 - PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS

PART 1 - GENERAL

-1.1 SUMMARY
A. Section Includes:
1. Plastic-laminate-faced architectural cabinets.
2. Wood furring, blocking, shims, and hanging strips for installing plastic-laminate-faced architectural cabinets unless concealed within other construction before cabinet installation.

-1.2 ACTION SUBMITTALS
A. Product Data: For each type of product
B. Shop Drawings: Show location of each item, dimensioned plans and elevations, large-scale details, attachment devices, and other components.
C. Samples:
1. Plastic laminates, for each color, pattern, and surface finish.
2. Thermoset decorative panels, for each color, pattern, and surface finish.
-1.3 INFORMATIONAL SUBMITTALS
A. Woodwork Quality Standard Compliance Certificates: AWI Quality Certification Program certificates
-1.4 QUALITY ASSURANCE
A. Fabricator Qualifications:Certified participant in AWI's Quality Certification Program
B. Installer Qualifications: Certified participant in AWI's Quality Certification Program

-1.5 FIELD CONDITIONS
A. Environmental Limitations: Do not deliver or install cabinets until building is enclosed, wet work is complete, and HVAC system is operating and maintaining temperature and relative humidity at occupancy levels during the remainder of the construction period.

PART 2 - PRODUCTS

-2.1 ARCHITECTURAL CABINET FABRICATORS
A. Fabricators: Subject to compliance with requirements for fabricator quality assurance

-2.2 PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS
A. Quality Standard: Unless otherwise indicated, comply with the "Architectural Woodwork Standards" for grades of architectural plastic-laminate cabinets indicated for construction, finishes, installation, and other requirements.
B. Grade: Custom
C. Type of Construction: Frameless (Tenant to confirm)
D. Cabinet, Door, and Drawer Front Interface Style: Flush overlay (Tenant to confirm)
E. Reveal Dimension: 1/2 inch
F. High-Pressure Decorative Laminate: NEMA LD 3, grades as indicated or if not indicated, as required by woodwork quality standard.
G. Laminate Cladding for Exposed Surfaces:
1. Horizontal Surfaces: Grade HGS.
2. Postformed Surfaces: Grade HGP.
3. Vertical Surfaces: Grade HGS
4. Pattern Direction: Vertically for drawer fronts, doors, and fixed panels or Horizontally for drawer fronts, doors, and fixed panels (Tenant to confirm pattern direction after laminate is selected)
H. Materials for Semiexposed Surfaces:
1. Surfaces Other Than Drawer Bodies: (Refer to Drawings)
2. Drawer Sides and Backs: (Refer to Drawings)
3. Drawer Bottoms: (Refer to Drawings)
I. Dust Panels: 1/4-inch (6.4-mm) plywood or tempered hardboard above compartments and drawers unless located directly under tops.
J. Colors, Patterns, and Finishes: Provide materials and products that result in colors and textures of exposed laminate surfaces complying with the following requirements:
1. As indicated by laminate manufacturer's designations.
2. As selected by Tenant from laminate manufacturer's full range in the following categories:
a. Solid colors, gloss or matte finish.
b. Solid colors with core same color as surface, gloss or matte finish.
c. Wood grains, gloss or matte finish.
d. Patterns, gloss or matte finish.

-2.3 WOOD MATERIALS
A. Wood Products: Provide materials that comply with requirements of referenced quality standard for each type of woodwork and quality grade specified unless otherwise indicated.
1. Wood Moisture Content: 5 to 10 percent.
B. Composite Wood and Agrifiber Products: Provide materials that comply with requirements of referenced quality standard for each type of woodwork and quality grade specified unless otherwise indicated.
1. Medium-Density Fiberboard: ANSI A208.2,
2. Softwood Plywood: DOC PS 1
3. Veneer-Faced Panel Products (Hardwood Plywood): HPVA HP-1.
4. Thermoset Decorative Panels: Particleboard or medium-density fiberboard finished with thermally fused, melamine-impregnated decorative paper and complying with requirements of NEMA LD 3, Grade VGL, for test methods 3.3, 3.4, 3.6, 3.8, and 3.10.

-2.4 FIRE-RETARDANT-TREATED MATERIALS
A. Fire-Retardant-Treated Materials, General: Where fire-retardant-treated materials are indicated, use materials complying with requirements in this article that are acceptable to authorities having jurisdiction and with fire-test-response characteristics specified as determined by testing identical products per test method indicated by a qualified testing agency.
1. Identify fire-retardant-treated materials with appropriate classification marking of qualified testing agency in the form of removable paper label or imprint on surfaces that will be concealed from view after installation.
B. Fire-Retardant-Treated Lumber and Plywood: Products with a flame-spread index of 25 or less when tested according to ASTM E 84, with no evidence of significant progressive combustion when the test is extended an additional 20 minutes, and with the flame front not extending more than 10.5 feet (3.2 m) beyond the centerline of the burners at any time during the test.
1. Kiln dry lumber and plywood after treatment to a maximum moisture content of 19 and 15 percent, respectively.

-2.5 CABINET HARDWARE AND ACCESSORIES
A. General: Provide cabinet hardware and accessory materials associated with architectural cabinets
B. Frameless Concealed Hinges (European Type): BHMA A156.9, B01602 (As identified in Drawings / Confirm selection with Tenant)

C. Wire Pulls: Back mounted, solid metal (As identified in Drawings / Confirm selection with Tenant)
D. Adjustable Shelf Standards and Supports: (As identified in Drawings / Confirm selection with Tenant)
E. Shelf Rests: BHMA A156.9, B04013; metal.
F. Drawer Slides: BHMA A156.9.
1. Grade 1 and Grade 2: Side mounted; full-extension type; zinc-plated steel with polymer rollers.
2. Grade 1HD-100 and Grade 1HD-200: Side mounted; full-extension type; zinc-platedsteel ball-bearing slides.
3. For drawers not more than 3 inches (75 mm) high and not more than 24 inches (600 mm)wide, provide Grade 2.
4. For drawers more than 3 inches (75 mm) high but not more than 6 inches (150 mm) high and not more than 24 inches (600 mm) wide, provide Grade 1
5. For drawers more than 6 inches (150 mm) high or more than 24 inches (600 mm) wide, provide Grade 1HD-100.
6. For computer keyboard shelves, provide Grade 1.
7. For trash bins not more than 20 inches (500 mm) high and 16 inches (400 mm) wide, provide Grade 1HD-200.
D. Door Locks: BHMA A156.11, E07121.
E. Drawer Locks: BHMA A156.11, E07041.
F. Door and Drawer Silencers: BHMA A156.16, L03011.
G. Exposed Hardware Finishes: For exposed hardware, provide finish that complies with BHMA A156.18 for BHMA finish number indicated.
1. Satin Chromium Plated: BHMA 626 for brass or bronze base; BHMA 652 for steel base.
2. Bright Chromium Plated: BHMA 625 for brass or bronze base; BHMA 651 for steel base.
3. Satin Stainless Steel: BHMA 630.
4. (Tenant to make Final Selection / provide finish samples to Tenant for approval)

-2.6 MISCELLANEOUS MATERIALS
A. Furring, Blocking, Shims, and Hanging Strips: Softwood or hardwood lumber, kiln dried to less than 15 percent moisture content.
B. Anchors: Select material, type, size, and finish required for each substrate for secure anchorage. Provide metal expansion sleeves or expansion bolts for post-installed anchors. Use nonferrousmetal or hot-dip galvanized anchors and inserts at inside face of exterior walls and at floors.
C. Adhesive for Bonding Plastic Laminate: Per Manufacturers Recommendation.
1. Adhesive for Bonding Edges: Per Manufacturers Recommendation

-2.7 FABRICATION
A. Complete fabrication, including assembly and hardware application, to maximum extent possible before shipment to Project site. Disassemble components only as necessary for shipment and installation. Where necessary for fitting at site, provide ample allowance for scribing, trimming, and fitting.
B. Shop-cut openings to maximum extent possible to receive hardware, appliances, electrical work, and similar items. Locate openings accurately and use templates or roughing-in diagrams to produce accurately sized and shaped openings. Sand edges of cutouts to remove splinters and burrs.

PART 3 - EXECUTION

-3.1 PREPARATION
A. Before installation, condition cabinets to average prevailing humidity conditions in installation areas.

-3.2 INSTALLATION
A. Grade: Install cabinets to comply with same grade as item to be installed.
B. Install cabinets level, plumb, true, and straight. Shim as required with concealed shims. Install level and plumb to a tolerance of 1/8 inch in 96 inches (3 mm in 2400 mm).
C. Scribe and cut cabinets to fit adjoining work, refinish cut surfaces, and repair damaged finish at cuts.
D. Anchor cabinets to anchors or blocking built in or directly attached to substrates. Secure with countersunk, concealed fasteners and blind nailing. Use fine finishing nails or finishing screws for exposed fastening, countersunk and filled flush with woodwork.
E. Cabinets: Install without distortion so doors and drawers fit openings properly and are accurately aligned. Adjust hardware to center doors and drawers in openings and to provide unencumbered operation. Complete installation of hardware and accessory items as indicated.
1. Install cabinets with no more than 1/8 inch in 96-inch (3 mm in 2400-mm) sag, bow, or other variation from a straight line.
2. Fasten wall cabinets through back, near top and bottom, and at ends not more than 16 inches (400 mm) o.c. with No. 10 wafer-head screws sized for not less than 1-1/2-inch (38-mm) penetration into wood framing, blocking, or hanging strips or No. 10 waferhead sheet metal screws through metal backing or metal framing behind wall finish or toggle bolts through metal backing or metal framing behind wall finish.

DIVISION 09 - FINISHES

SECTION 092900 - GYPSUM BOARD

-1.1 SUMMARY
A. Section Includes:
1. Interior gypsum board.
2. Drywall finishing (joint type and compound treatment)

-1.2 QUALITY ASSURANCE
A. Gypsum Board Terminology standard: GA 305 by Gypsum Association.
B. Single-source responsibility: obtain gypsum board products from a single manufacturer, or from manufacturers recommended by the prime manufacturer of gypsum boards.

-1.3 DELIVERY, STORAGE AND HANDLING
A. Deliver materials in original packages, containers or bundles bearing brand name and indentification of manufactuer or supplier.
B. Store materials inside under cover and keep them dry and protected against weather, condensation, direct sunlight, construction traffic, and other potential causes of damage. Stack panels flat and supported on risers on a flat platform to prevent sagging.
C. Handle gypsum board to prevent damage to edges, ends, or surfaces. Protect metal corner beads and trim from being bent or damaged.
D. Moisture- and Mold-Resistant Gypsum Board: ASTM C 1396/C 1396M. With moisture- and mold-resistant core and paper surfaces.
1. Core: 5/8 inch (15.9 mm), Type X, unless otherwise indicated.
2. Long Edges: Tapered.
3. Mold Resistance: ASTM D 3273, score of 10

-1.4 FIELD CONDITIONS
A. Environmental Limitations: Comply with ASTM C 840 requirements or gypsum board manufacturer's written recommendations, whichever are more stringent.
B. Do not install panels that are wet, those that are moisture damaged, and those that are mold damaged.
1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

PART 2 - PRODUCTS

-2.1 GYPSUM BOARD, GENERAL
A. Size: Provide maximum lengths and widths available that will minimize joints in each area and that correspond with support system indicated.

-2.2 INTERIOR GYPSUM BOARD
A. Manufacturers: Subject to compliance with requirements of the following or equal:
1. Georgia-Pacific Gypsum LLC.
2. National Gypsum Company.
3. USG Corporation.

-2.3 TRIM ACCESSORIES
A. Interior Trim: ASTM C 1047.
1. Material: Galvanized or aluminum-coated steel sheet or rolled zinc .
2. Shapes:
a. Cornerbead.
b. L-Bead: L-shaped; exposed long flange receives joint compound.
c. U-Bead: J-shaped; exposed short flange does not receive joint compound.
d. Expansion (control) joint.
B. Aluminum Trim: Extruded accessories of profiles and dimensions indicated.
1. Manufacturers: Subject to compliance with requirements, provide products by one of the following or equal:
a. Fry Reglet Corp.
b. Gordon, Inc.
c. Pittcon Industries.
2. Aluminum: Alloy and temper with not less than the strength and durability properties of ASTM B 221 (ASTM B 221M), Alloy 6063-T5.
3. Finish: Corrosion-resistant primer compatible with joint compound and finish materials specified .

-2.4 JOINT TREATMENT MATERIALS
A. General: Comply with ASTM C 475/C 475M.
B. Joint Tape:
1. Interior Gypsum Board: Paper.
C. Joint Compound for Interior Gypsum Board: For each coat use formulation that is compatible with other compounds applied on previous or for successive coats.
1. Prefilling: At open joints, rounded or beveled panel edges, and damaged surface areas, use setting-type taping compound.
2. Embedding and First Coat: For embedding tape and first coat on joints, fasteners, and trim flanges, use setting-type taping compound.
a. Use setting-type compound for installing paper-faced metal trim accessories.
3. Fill Coat: For second coat, use setting-type, sandable topping compound.
4. Finish Coat: For third coat, use setting-type, sandable topping compound.
5. Skim Coat: For final coat of Level 5 finish, use drying-type, all-purpose compound .

-2.5 AUXILIARY MATERIALS
A. General: Provide auxiliary materials that comply with referenced installation standards and manufacturer's written recommendations.
B. Steel Drill Screws: ASTM C 1002, unless otherwise indicated.
1. Use screws complying with ASTM C 954 for fastening panels to steel members from 0.033 to 0.112 inch (0.84 to 2.84 mm) thick.

PART 3 - EXECUTION

-3.1 EXAMINATION
A. Examine areas and substrates including welded hollow-metal frames and framing, with Installer present, for compliance with requirements and other conditions affecting performance.
B. Examine panels before installation. Reject panels that are wet, moisture damaged, and mold damaged.
C. Proceed with installation only after unsatisfactory conditions have been corrected.

-3.2 APPLYING AND FINISHING PANELS, GENERAL
A. Comply with ASTM C 840.

-3.3 APPLYING INTERIOR GYPSUM BOARD
A. Install interior gypsum board in the following locations:
1. Type X: As indicated on Drawings .
2. Moisture- and Mold-Resistant Type: All locations unless otherwise indicated on drawings. .
B. Single-Layer Application:
1. On partitions/walls, apply gypsum panels vertically (parallel to framing) unless otherwise indicated or required by fire-resistance-rated assembly, and minimize end joints.
a. Stagger abutting end joints not less than one framing member in alternate courses of panels.
2. Fastening Methods: Apply gypsum panels to supports with steel drill screws.

-3.4 INSTALLING TRIM ACCESSORIES
A. General: For trim with back flanges intended for fasteners, attach to framing with same fasteners used for panels. Otherwise, attach trim according to manufacturer's written instructions.
B. Control Joints: Install control joints according to ASTM C840 and in specific locations approved by Architect for visual effect.
C. Interior Trim: Install in the following locations:
1. Cornerbead: Use at outside corners unless otherwise indicated.
2. L-Bead: Use use where work is tightly abutted to other work, and install special kerf-type where other work is kerfed to receive long leg of L-type trim.
3. U-Bead: Use where panel edge is exposed, revealed, gasketed, or sealant filled.

-3.5 FINISHING GYPSUM BOARD
A. General: Treat gypsum board joints, interior angles, edge trim, control joints, penetrations, fastener heads, surface defects, and elsewhere as required to prepare gypsum board surfaces for decoration. Promptly remove residual joint compound from adjacent surfaces.
B. Prefill open joints and damaged surface areas.
C. Apply joint tape over gypsum board joints, except for trim products specifically indicated as not intended to receive tape.
D. Gypsum Board Finish Levels: Finish panels to levels indicated below and according to ASTM C 840:
1. Level 4: At panel surfaces that will be exposed to view unless otherwise indicated .

MKE ARCHITECTS
MKE ARCHITECTS
9800 Airline Highway, Suite 217
Baton Rouge , Louisiana 70816
Office: 225-412-0048
www.mkearchitects.com
Contact: Kirk Edwards, AIA

Consultants Information:

Mechanical and Electrical:
GSE, INC.
1816 Pass Road
Gulfport, MS 39501
(228)864-5050
Contact: Dylan Wade, PE

Structural:
GSE, INC.
1816 Pass Road
Gulfport, MS 39501
(228)864-5050
Contact: Ahmad Omar, PE

Project Title:
CF INDUSTRIES
BLUE SAPPHIRE
GUARD SHACK.

Project Location:
39018 LA-3089
DONALDSONVILLE, LA 70346

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GENERAL PROJECT SPECIFICATIONS:

(CONTINUED)
SECTION 092900 - GYPSUM BOARD

-3.6 PROTECTION
A. Protect adjacent surfaces from drywall compound and promptly remove from floors and other non-drywall surfaces.Repair surfaces stained, marred, or otherwise damaged during drywall application.
B. Protect installed products from damage from weather, condensation, direct sunlight, construction, and other causes during remainder of the construction period.
C. Remove and replace panels that are wet, moisture damaged, and mold damaged.
1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
2. Indications that panels are mold damaged include, but are not limited to, fuzzy or slotchy surface contamination and discoloration.

SECTION 095113 - ACOUSTICAL PANEL CEILINGS

PART 1 - GENERAL

-1.1 SUMMARY
A. Section includes acoustical panels and exposed suspension systems for ceilings.

-1.2 MAINTENANCE MATERIAL SUBMITTALS
A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
1. Acoustical Ceiling Panels: Full-size panels equal to 2 percent of quantity installed.
2. Suspension-System Components: Quantity of each exposed component equal to 2 percent of quantity installed.
3. Hold-Down Clips: Equal to 2 percent of quantity installed.
4. Impact Clips: Equal to 2 percent of quantity installed.

-1.3 DELIVERY, STORAGE, AND HANDLING
A. Deliver acoustical panels, suspension-system components, and accessories to Project site in original, unopened packages and store them in a fully enclosed, conditioned space where they will be protected against damage from moisture, humidity, temperature extremes, direct sunlight, surface contamination, and other causes.
B. Before installing acoustical panels, permit them to reach room temperature and a stabilized moisture content.
C. Handle acoustical panels carefully to avoid chipping edges or damaging units in any way.

-1.4 FIELD CONDITIONS
A. Environmental Limitations: Do not install acoustical panel ceilings until spaces are enclosed and weatherproof, wet work in spaces is complete and dry, work above ceilings is complete, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.

PART 2 - PRODUCTS

-2.1 PERFORMANCE REQUIREMENTS
A. Surface-Burning Characteristics: Comply with ASTM E 84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
1. Flame Spread Index: Comply with ASTM E 1264 for Class A materials
2. Smoke-Developed Index: 50 or less

-2.2 ACOUSTICAL PANELS, GENERAL
A. Source Limitations:
1. Acoustical Ceiling Panel: Obtain each type from single source from single manufacturer.
2. Suspension System: Obtain each type from single source from single manufacturer.
B. Source Limitations: Obtain each type of acoustical ceiling panel and supporting suspension system from single source from single manufacturer.
C. Glass-Fiber-Based Panels: Made with binder containing no urea formaldehyde.
D. Acoustical Panel Standard: Provide manufacturer's standard panels of configuration indicated that comply with ASTM E 1264 classifications as designated by types, patterns, acoustical ratings, and light reflectances unless otherwise indicated.
1. Mounting Method for Measuring NRC: Type E-400; plenum mounting in which face of test specimen is 15-3/4 inches (400 mm) away from test surface according to ASTM E 795.
E. Acoustical Panel Colors and Patterns: Match appearance characteristics indicated for each product type.
1. Where appearance characteristics of acoustical panels are indicated by referencing pattern designations in ASTM E 1264 and not manufacturers' proprietary product designations, provide products selected by Owner from each manufacturer's full range that comply with requirements indicated for type, pattern, color, light reflectance, acoustical performance, edge detail, and size.

-2.4 ACOUSTICAL PANELS
A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
B. Basis-of-Design Product: Subject to compliance with requirements, provide product by one of the following or approved equivalent: (OWNERTO MAKE FINAL SELECTION)
1. Armstrong World Industries, Inc. – “1732 LAY-IN PANEL”
C. Classification: Provide tiles complying with ASTM E 1264 for type, form, and pattern as follows:
1. Type and Form: Type I, Cellulose base with painted finish.
2. Pattern: As indicated by manufacturer’s designation.
D. Color: White
E. LR: Not less than .80
F. NRC: Not less than 0.55, Type E-400 mounting according to ASTM E 795.
G. CAC: Not less than 35
H. Edge/Joint Detail: Square
I. Thickness: 3/4 inch
J. Modular Size: 48 by 24 inches (610 by 610 mm
K. Broad Spectrum Antimicrobial Fungicide and Bactericide Treatment: Provide acoustical panels treated with manufacturer's standard antimicrobial formulation that inhibits fungus, mold, mildew, and gram-positive and gram-negative bacteria and showing no mold, mildew, or bacterial growth when tested according to ASTM D 3273 and evaluated according to ASTM D 3274 or ASTM G 21.

-2.6 METAL SUSPENSION SYSTEMS, GENERAL
A. Metal Suspension-System Standard: Provide manufacturer's standard direct-hung metal suspension systems of types, structural classifications, and finishes indicated that comply with applicable requirements in ASTM C 635/C 635M.
1. High-Humidity Finish: Comply with ASTM C 635/C 635M requirements for "Coating Classification for Severe Environment Performance" where high-humidity finishes are indicated.
B. Attachment Devices: Size for five times the design load indicated in ASTM C 635/C 635M, Table 1, "Direct Hung," unless otherwise indicated. Comply with seismic design requirements.
1. Anchors in Concrete: Anchors of type and material indicated below, with holes or loops for attaching hangers of type indicated and with capability to sustain, without failure, a load equal to five times that imposed by ceiling construction, as determined by testing according to ASTM E 488 or ASTM E 1512 as applicable, conducted by a qualified testing and inspecting agency.
a. Corrosion Protection: Carbon-steel components zinc plated to comply with ASTM B 633, Class Fe/Zn 5 (0.005 mm) for Class SC 1 service condition.
b. Corrosion Protection: Stainless-steel components complying with ASTM F 593 and ASTM F 594, Group 1 Alloy 304 or 316 for bolts; Alloy 304 or 316 for anchor.
c. Corrosion Protection: Components fabricated from nickel-copper-alloy rods complying with ASTM B 164 for UNS No. N04400 alloy.
C. Wire Hangers, Braces, and Ties: Provide wires complying with the following requirements:
1. Zinc-Coated, Carbon-Steel Wire: ASTM A 641/A 641M, Class 1 zinc coating, soft temper.
2. Stainless-Steel Wire: ASTM A 580/A 580M, Type 304, nonmagnetic.
3. Nickel-Copper-Alloy Wire: ASTM B 164, nickel-copper-alloy UNS No. N04400.
4. Size: Select wire diameter so its stress at three times hanger design load (ASTM C 635/C 635M, Table 1, "Direct Hung") will be less than yield stress of wire, but provide not less than 0.106-inch- (2.69-mm-) diameter wire.
D. Hanger Rods: Mild steel, zinc coated or protected with rust-inhibitive paint.
E. Angle Hangers: Angles with legs not less than 7/8 inch (22 mm) wide; formed with 0.04-inch- (1-mm-) thick, galvanized-steel sheet complying with ASTM A 653/A 653M, G90 (Z275) coating designation; with bolted connections and 5/16-inch-(8-mm-) diameter bolts.
F. Hold-Down Clips: Where indicated, provide manufacturer's standard hold-down clips spaced 24 inches (610 mm) o.c. on all cross tees.
G. Impact Clips: Where indicated, provide manufacturer's standard impact-clip system designed to absorb impact
forces against acoustical panels.

-2.7 METAL SUSPENSION SYSTEM
A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following, basis of design product:
1. Armstrong World Industries, Inc.
B. Wide-Face, Capped, Double-Web,Steel Suspension System: Main and cross runners roll formed from cold-rolled steel sheet; prepainted, electrolytically zinc coated, or hot-dip galvanized according to ASTM A 653/A 653M, not less than G30 (Z90) coating designation; with prefinished 15/16-inch- (24-mm-) wide metal caps on flanges.
1. Structural Classification: Intermediate-duty system.
2. Face Design: Flat, flush.
3. Cap Material: Steel or aluminum cold-rolled sheet.
4. Cap Finish: Painted white.

-2.8 METAL EDGE MOLDINGS AND TRIM
A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
1. Armstrong World Industries, Inc.
2. Fry Reglet Corporation.
3. USG Interiors, Inc.; Subsidiary of USG Corporation.
B. Roll-Formed, Sheet-Metal Edge Moldings and Trim: Type and profile indicated or, if not indicated, manufacturer's standard moldings for edges and penetrations that comply with seismic design requirements; formed from sheet metal of same material, finish, and color as that used for exposed flanges of suspension-system runners.
1. Provide manufacturer's standard edge moldings that fit acoustical panel edge details and suspension systems indicated and that match width and configuration of exposed runners unless otherwise indicated.
2. For lay-in panels with reveal edge details, provide stepped edge molding that forms reveal of same depth and width as that formed between edge of panel and flange at exposed suspension member.
3. For circular penetrations of ceiling, provide edge moldings fabricated to diameter required to fit penetration exactly.
C. Extruded-Aluminum Edge Moldings and Trim: Where indicated, provide manufacturer's extruded-aluminum edge moldings and trim of profile indicated or referenced by manufacturer's designations, including splice plates, corner pieces, and attachment and other clips, complying with seismic design requirements and the following:
1. Aluminum Alloy: Alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated, and with not less than the strength and durability properties of aluminum extrusions complying with ASTM B 221 (ASTM B 221M) for Alloy and Temper 6063-T5.
2. Clear Anodic Finish: AAMA 611, AA-M12C22A31, Class II, 0.010 mm or thicker.
3. Baked-Enamel or Powder-Coat Finish: Minimum dry film thickness of 1.5 mils (0.04 mm). Comply with ASTM C 635/C 635M and coating manufacturer's written instructions for cleaning, conversion coating, and applying and baking finish.

PART 3 - EXECUTION

-3.1 EXAMINATION
A. Examine substrates, areas, and conditions, including structural framing to which acoustical panel ceilings attach or abut, with Installer present, for compliance with requirements specified in this and other Sections that affect ceiling installation and anchorage and with requirements for installation tolerances and other conditions affecting performance of acoustical panel ceilings.
B. Examine acoustical panels before installation. Reject acoustical panels that are wet, moisture damaged, or mold damaged.
C. Proceed with installation only after unsatisfactory conditions have been corrected.

-3.2 PREPARATION
A. Measure each ceiling area and establish layout of acoustical panels to balance border widths at opposite edges of each ceiling. Avoid using less-than-half-width panels at borders, and comply with layout shown on reflected ceiling plans.

-3.3 INSTALLATION
A. General: Install acoustical panel ceilings to comply with ASTM C 636/C 636M and seismic design requirements indicated, according to manufacturer's written instructions and CISCA's "Ceiling Systems Handbook."
B. Suspend ceiling hangers from building's structural members and as follows:
1. Install hangers plumb and free from contact with insulation or other objects within ceiling plenum that are not part of supporting structure or of ceiling suspension system.
2. Splay hangers only where requiredto miss obstructions; offset resulting horizontal forces by bracing,countersplaying, or other equally effective means.
3. Where width of ducts and other construction within ceiling plenum produces hanger spacings that interfere with location of hangers at spacings required to support standard suspension-system members, install supplemental suspension members and hangers in form of trapezes or equivalent devices.
4. Secure wire hangers to ceiling-suspension members and to supports above with a minimum of three tight turns. Connect hangers directly either to structures or to inserts, eye screws, or other devices that are secure and appropriate for substrate and that will not deteriorate or otherwise fail due to age, corrosion, or elevated temperatures.
5. Secure flat, angle, channel, and rod hangers to structure, including intermediate framing members, by attaching to inserts, eye screws, or other devices that are secure and appropriate for both the structure to which hangers are attached and the type of hanger involved. Install hangers in a manner that will not cause them to deteriorate or fail due to age, corrosion, or elevated temperatures.
6. When steel framing does not permit installation of hanger wires at spacing required, install carrying channels or other supplemental support for attachment of hanger wires.
7. Do not attach hangers to steel deck tabs.
8. Do not attach hangers to steel roof deck. Attach hangers to structural members.
9. Space hangers not more than 48 inches (1200 mm) o.c. along each member supported directly from hangers unless otherwise indicated; provide hangers not more than 8 inches (200 mm) from ends of each member.
10. Size supplemental suspension members and hangers to support ceiling loads within performance limits established by referenced standards and publications.
C. Secure bracing wires to ceiling suspension members and to supports with a minimum of four tight turns. Suspend bracing from building's structural members as required for hangers, without attaching to permanent metal forms, steel deck, or steel deck tabs. Fasten bracing wires into concrete with cast-in-place or postinstalled anchors.
D. Install edge moldings and trim of type indicated at perimeter of acoustical ceiling area and where necessary to conceal edges of acoustical panels.
1. Apply acoustical sealant in a continuous ribbon concealed on back of vertical legs of moldings before they are installed.
2. Screw attach moldings to substrate at intervals not more than 16 inches (400 mm) o.c. and not more than 3 inches (75 mm) from ends, leveling with ceiling suspension system to a tolerance of 1/8 inch in 12 feet (3.2 mm in 3.6 m). Miter corners accurately and connect securely.
3. Do not use exposed fasteners, including pop rivets, on moldings and trim.
E. Install suspension-system runners so they are square and securely interlocked with one another. Remove and replace dented, bent, or kinked members.
F. Install acoustical panels with undamaged edges and fit accurately into suspension-system runners and edge moldings. Scribe and cut panels at borders and penetrations to provide a neat, precise fit.
1. Arrange directionally patterned acoustical panels as follows:
a. As indicated on reflected ceiling plans.
2. For square-edged panels, install panels with edges fully hidden from view by flanges of suspension-system runners and moldings.
3. For reveal-edged panels on suspension-system runners, install panels with bottom of reveal in firm contact with top surface of runner flanges.
4. For reveal-edged panels on suspension-system members with box-shaped flanges, install panels with reveal surfaces in firm contact with suspension-system surfaces and panel faces flush with bottom face of runners.
5. Paint cut edges of panel remaining exposed after installation; match color of exposed panel surfaces using coating recommended in writing for this purpose by acoustical panel manufacturer.
6. Install hold-down clips in areas indicated, in areas required by authorities having jurisdiction, and for fireresistance ratings; space as recommended by panel manufacturer's written instructions unless otherwise indicated.

-3.4 CLEANING
A. Clean exposed surfaces of acoustical panel ceilings, including trim, edge moldings, and suspension-system members. Comply with manufacturer's written instructions for cleaning and touchup of minor finish damage.Remove and replace ceiling components that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage

SECTION 066400 - PLASTIC PANELING

PART 1 - GENERAL

-1.1 SUMMARY
A. Section includes plastic sheet paneling.

-1.2 ACTION SUBMITTALS
A. Product Data: For each type of product.
B. Samples: For plastic paneling and trim accessories.

-1.3 QUALITY ASSURANCE
A. Testing Agency: Acceptable to authorities having jurisdiction

PART 2 - PRODUCTS

-2.1 PLASTIC SHEET PANELING
A. Glass-Fiber-Reinforced Plastic Paneling: Gelcoat-finished, glass-fiber-reinforced plastic panels complying with ASTM D 5319
1. Surface-Burning Characteristics: As follows when tested by a qualified testing agency according to ASTM E 84. Identify products with appropriate markings of applicable testing agency.
a. Flame-Spread Index: 25 Class A
b. Smoke-Developed Index: 450 or less.
2. Nominal Thickness: Not less than 0.12 inch
3. Surface Finish: Smooth
4. Color: White

2.2 ACCESSORIES
A. Trim Accessories: Manufacturer's standard one-piece vinyl extrusions designed to retain and cover edges of panels. Provide division bars, inside corners, outside corners, and caps as needed to conceal edges.
1. Color: Match panels
B. Sealant: Mildew-resistant sealant recommended by plastic paneling manufacturer and complying with requirements in Section 079200 "Joint Sealants."

PART 3 - EXECUTION
3.1 PREPARATION
A. Clean substrates of substances that could impair adhesive bond, including oil, grease, dirt, and dust.
B. Condition panels by unpacking and placing in installation space before installation according to manufacturer's written recommendations.
C. Lay out paneling before installing. Locate panel joints to provide equal panels at ends of walls not less than half the width of full panels

3.2 INSTALLATION
A. Install plastic paneling according to manufacturer's written instructions.
B. Install panels in a full spread of adhesive.
C. Install trim accessories with adhesive
D. Fill grooves in trim accessories with sealant before installing panels, and bed inside corner trim in a bead of sealant.
E. Maintain uniform space between panels and wall fixtures. Fill space with sealant.
F. Remove excess sealant and smears as paneling is installed. Clean with solvent recommended by sealant manufacturer and then wipe with clean dry cloths until no residue remains.

END OF SECTION 066400

MKE ARCHITECTS
MKE ARCHITECTS
9800 Airline Highway, Suite 217
Baton Rouge , Louisiana 70816
Office: 225-412-0048
www.mkearchitects.com
Contact: Kirk Edwards, AIA

Consultants Information:

Mechanical and Electrical:
GSE, INC.
1816 Pass Road
Gulfport, MS 39501
(228)864-5050
Contact: Dylan Wade, PE

Structural:
GSE, INC.
1816 Pass Road
Gulfport, MS 39501
(228)864-5050
Contact: Ahmad Omar, PE

Project Title:
CF INDUSTRIES
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39018 LA-3089
DONALDSONVILLE, LA 70346

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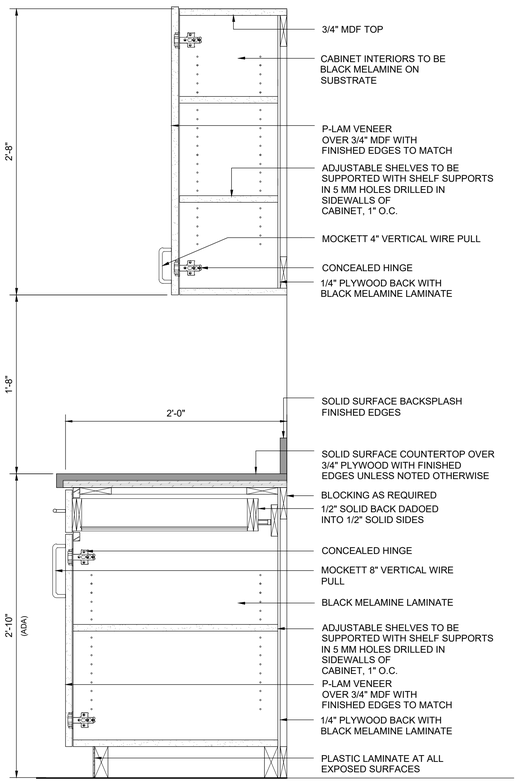
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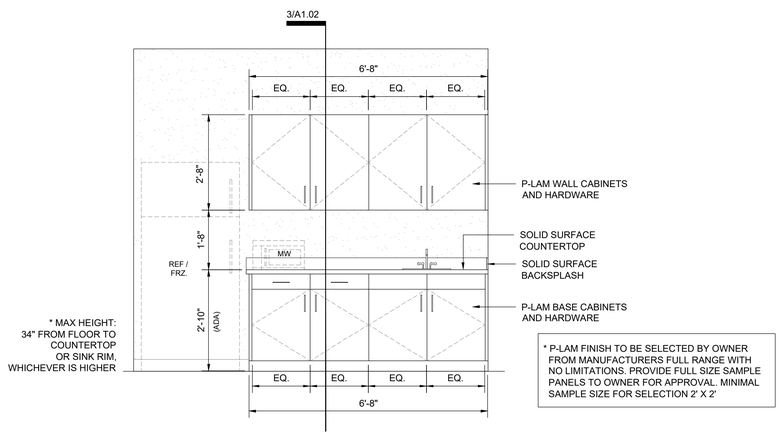
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MILLWORK DETAIL - TYP. 1/2"=1'-0" (3)



* P-LAM FINISH TO BE SELECTED BY OWNER FROM MANUFACTURERS FULL RANGE WITH NO LIMITATIONS. PROVIDE FULL SIZE SAMPLE PANELS TO OWNER FOR APPROVAL. MINIMAL SAMPLE SIZE FOR SELECTION 2' X 2'

BREAKROOM - MILLWORK 1/2"=1'-0" (2)

INTERIOR MILLWORK GENERAL SHEET NOTES:

INTERIOR WOOD MILLWORK AND PLASTIC LAMINATE (P-LAM) FACED CASEWORK SHALL BE PROVIDED AS A DELEGATED DESIGN SYSTEM. CONTRACTOR SHALL RETAIN A QUALIFIED MILLWORK FABRICATOR TO DESIGN, ENGINEER, DETAIL, FABRICATE, AND INSTALL ALL MILLWORK COMPONENTS NECESSARY TO SATISFY THE DESIGN INTENT INDICATED IN THE CONTRACT DOCUMENTS.

ARCHITECTURAL DRAWINGS INDICATE THE GENERAL CONFIGURATION, SIZE, LOCATION, APPEARANCE, AND FUNCTIONAL REQUIREMENTS OF THE MILLWORK ONLY. THE CONTRACTOR AND MILLWORK FABRICATOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION DETAILS, MATERIAL THICKNESSES, JOINERY, FASTENING METHODS, SUPPORT REQUIREMENTS, BRACING, BACKING, HARDWARE, ANCHORAGE, CLEARANCES, TOLERANCES, AND COORDINATION REQUIRED FOR A COMPLETE, CODE-COMPLIANT, AND FUNCTIONAL INSTALLATION.

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO FABRICATION AND SHALL COORDINATE ALL MILLWORK WITH ADJACENT CONSTRUCTION, WALL FINISHES, ELECTRICAL DEVICES, PLUMBING FIXTURES, MECHANICAL SYSTEMS, ACCESSORIES, EQUIPMENT, AND OTHER TRADES. PROVIDE ALL BLOCKING, REINFORCEMENT, SUPPORTS, TRIM, FILLER PANELS, EDGE TREATMENTS, SEALANTS, AND INCIDENTAL COMPONENTS REQUIRED FOR A COMPLETE INSTALLATION WHETHER OR NOT SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS.

OWNER SHALL MAKE FINAL SELECTION OF PLASTIC LAMINATE COLORS, PATTERNS, TEXTURES, HARDWARE FINISHES, AND OTHER EXPOSED FINISH MATERIALS FROM MANUFACTURER'S FULL RANGE OF AVAILABLE OPTIONS UNLESS OTHERWISE NOTED. CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS, FINISH SAMPLES, AND PRODUCT DATA FOR OWNERS REVIEW PRIOR TO FABRICATION.

ARCHITECT'S REVIEW OF SHOP DRAWINGS IS FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT ONLY AND SHALL NOT RELIEVE THE CONTRACTOR OR MILLWORK FABRICATOR OF RESPONSIBILITY FOR DIMENSIONS, QUANTITIES, FABRICATION METHODS, STRUCTURAL ADEQUACY, CODE COMPLIANCE, COORDINATION, OR INSTALLATION REQUIREMENTS.

GENERAL SHEET NOTE: CMU WALLS:
CMU WALL DIMENSIONS SHOWN ON THE DRAWINGS ARE INTENDED TO ESTABLISH DESIGN INTENT ONLY. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND SHALL LAYOUT CMU WALLS TO OPTIMIZE BLOCK MODULES, MAINTAIN REQUIRED OPENING SIZES, AND MINIMIZE CUT BLOCKS. MINOR ADJUSTMENTS TO WALL LENGTHS, OPENING LOCATIONS, AND CONTROL JOINT LOCATIONS MAY BE MADE AS REQUIRED TO ACCOMMODATE STANDARD CMU MODULES WITHOUT IMPACTING THE DESIGN INTENT OR FUNCTION OF THE BUILDING. CONTRACTOR SHALL COORDINATE ALL FOUNDATION WALLS, FOOTINGS, THICKENED SLABS, DOWELS, ANCHOR BOLTS, AND RELATED STRUCTURAL ELEMENTS TO MATCH THE FINAL CMU WALL LAYOUT. ANY FOUNDATION MODIFICATIONS REQUIRED TO ACCOMMODATE THE FINAL CMU MODULE LAYOUT SHALL BE INCLUDED AS PART OF THE WORK. COORDINATE ALL MODIFICATIONS WITH THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.

GENERAL SHEET NOTE: CMU CONTROL JOINTS:
CMU CONTROL JOINT LOCATIONS HAVE BEEN DETERMINED BY THE STRUCTURAL ENGINEER. REFER TO THE STRUCTURAL DRAWINGS FOR ALL CONTROL JOINT LOCATIONS, DETAILS, REINFORCING REQUIREMENTS, AND ASSOCIATED FOUNDATION COORDINATION. THE STRUCTURAL DRAWINGS SHALL GOVERN IN THE EVENT OF ANY CONFLICT WITH THE ARCHITECTURAL DRAWINGS.

CMU WALL PENETRATION NOTE:
LOCATIONS OF OPENINGS, SLEEVES, RECESSES, EMBEDS, AND PENETRATIONS IN CMU WALLS SHALL BE COORDINATED WITH AND APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY ALL REQUIRED PENETRATIONS WITH THE OWNER AND APPLICABLE TRADES PRIOR TO INSTALLATION. FINAL LOCATIONS OF ALL CMU WALL PENETRATIONS SHALL BE CONFIRMED BY THE OWNER IN THE FIELD BEFORE ANY CUTTING, CORING, OR MASONRY CONSTRUCTION COMMENCES. ANY MODIFICATIONS REQUIRED TO ACCOMMODATE OWNER-DIRECTED FIELD CHANGES SHALL BE COORDINATED WITH THE STRUCTURAL ENGINEER AND SHALL NOT BE MADE WITHOUT APPROPRIATE REVIEW AND APPROVAL.

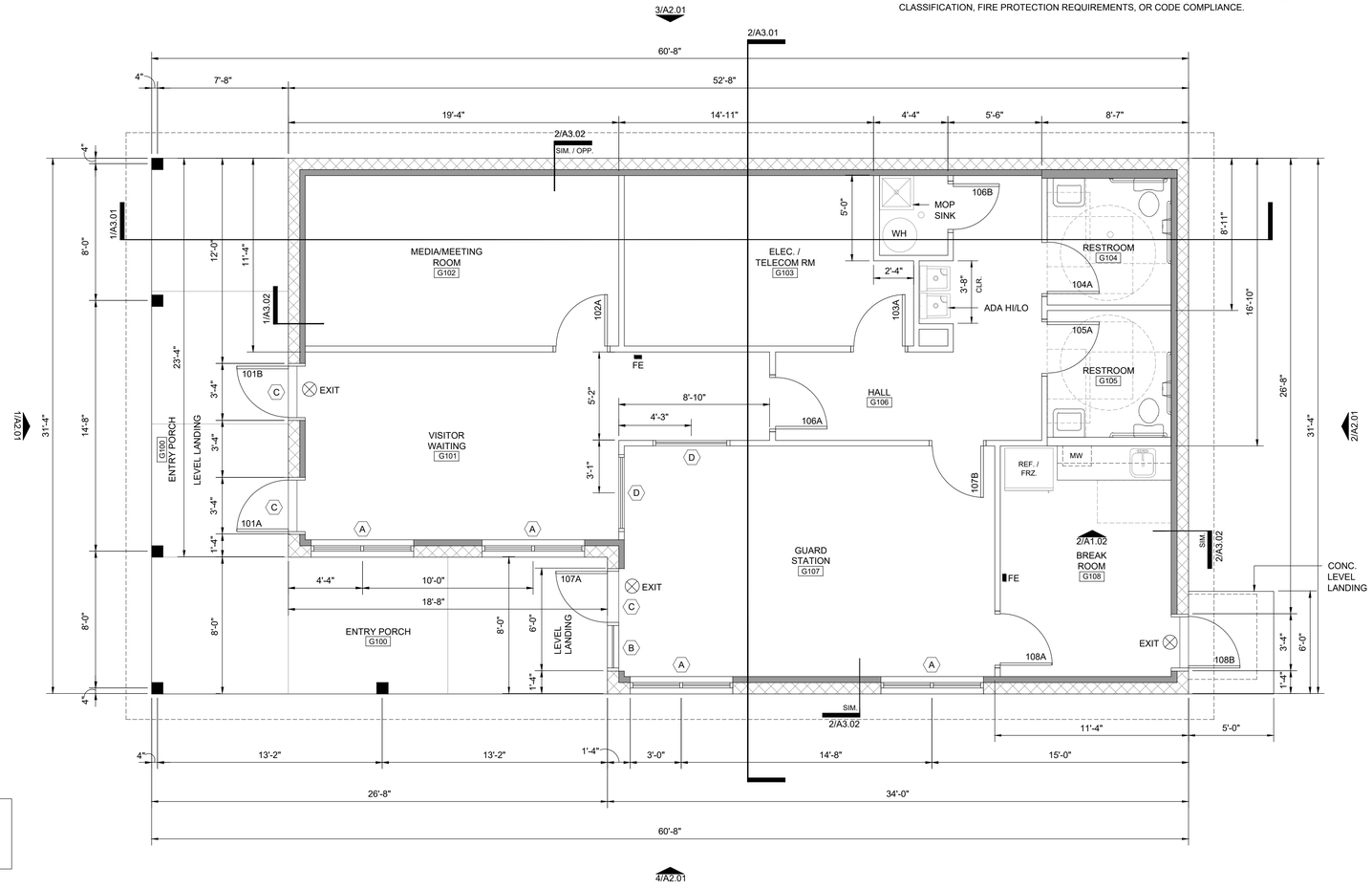
GENERAL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL CURRENT INTERNATIONAL BUILDING CODES, ZONING ORDINANCES AND STATE FIRE MARSHALL REGULATIONS.
2. PROVIDE ACCESSIBILITY FOR THE PHYSICALLY HANDICAPPED CONFORMING TO ALL CURRENT ADA-ABA GUIDELINES AND STANDARDS.
3. ADA RESTROOMS SHALL BE CONSTRUCTED AND EQUIPPED TO CONFORM WITH ALL CURRENT ADA-ABA REGULATIONS.
4. EXIT DOORS SHALL NOT BE LOCKED DURING PERIODS OF OCCUPANCY FROM EGRESS SIDE.
5. PROVIDE SAFETY GLAZING AT HAZARDOUS LOCATIONS TO CONFORM WITH CHAPTER 24 OF THE I.B.C. AND ALL OTHER APPLICABLE CODES.
6. INTERIOR FINISHES SHALL COMPLY WITH CHAPTER 8 AND TABLE 803.11 OF THE IBC 2015 EDITION.

   CLASS A: = FLAME SPREAD INDEX 0-25; SMOKE DEVELOPED INDEX 0-450
   CLASS B: = FLAME SPREAD INDEX 26-75; SMOKE DEVELOPED INDEX 0-450
   CLASS C: = FLAME SPREAD INDEX 76-200; SMOKE DEVELOPED INDEX 0-450

   -BUSINESS: NONSPRINKLERED
   -INTERIOR EXIT STAIRWAYS AND RAMPS AND EXIT PASSAGEWAYS: CLASS A
   -CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND RAMPS: CLASS B
   -ROOMS AND ENCLOSED SPACES: CLASS C
7. ALL INSULATION AND INSULATION ASSEMBLIES SHALL HAVE A SMOKE DEVELOPED FACTOR OF LESS THAN 450. CONCEALED & EXPOSED INSULATION SHALL HAVE A FLAME SPREAD RATING OF 0-25.
8. ALL DRAFTSTOPPING TO COMPLY WITH SECTION 717.4 OF THE I.B.C. DRAFTSTOP ALL ATTIC SPACES TO AREAS OF LESS THAN 3000 SQ.FT. DRAFT STOPPING MATERIAL SHALL NOT BE LESS THAN 1/2" GYPSUM BOARD, 1/2" PLYWOOD OR OTHER APPROVED MATERIALS ADEQUATELY SUPPORTED, THE INTEGRITY OF ALL DRAFTSTOPS SHALL BE MAINTAINED.
9. FIRESTOPPING SHALL BE PROVIDED IN WALLS AND PARTITIONS TO CUTOFF ALL CONCEALED DRAFT OPENINGS, BOTH VERT. & HORIZ., AND TO FORM A FIRE BARRIER BETWEEN FLOOR AND ROOF SPACES. ALL OPENINGS AROUND PIPES, DUCTS OR CONDUIT SHALL BE FIRESTOPPED WITH APPROVED MATERIALS, SECURELY FASTENED IN PLACE. FIRESTOPPING SHALL COMPLY WITH SECTION 717.2 OF THE I.B.C.
10. PROVIDE HAND OPERATED FIRE EXTINGUISHERS AS SHOWN ON PLANS AND IN ACCORDANCE WITH NFPA 10.
    -TOP OF FIRE EXTINGUISHER, HAVING A GROSS WEIGHT LESS THAN 40 LBS. SHALL BE NOT MORE THAN 5 FEET ABOVE THE FLOOR, 3-1/2" FEET IF GROSS WEIGHT 40 LBS. OR GREATER.
11. GROUND AND FLOOR SURFACES SHALL BE NON-SLIP UNDER ALL WEATHER CONDITIONS.
12. THRESHOLDS SHALL NOT BE MORE THAN 1/2" IN HEIGHT AND SHALL BE BEVELED IF OVER 1/4" IN HEIGHT. (ADA COMPLIANT)
13. LAVATORIES SHALL BE MOUNTED WITH A CLEARANCE OF AT LEAST 29" FROM THE FLOOR TO THE BOTTOM OF THE APRON. HOT WATER AND DRAIN PIPES SHALL BE INSULATED OR COVERED.
14. MIRRORS SHALL BE MOUNTED WITH THE BOTTOM EDGE NOT MORE THAN 40" FROM THE FLOOR SURFACE.
15. FAUCETS SHALL BE LEVER-OPERATED, PUCH TYPE OR ELECTRONICALLY CONTROLLED.
16. DOOR HARDWARE SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE. LEVER-OPERATED, PUSH-TYPE AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. LOCKS ON DOORS IN MEANS OF EGRESS SHALL NOT REQUIRE THE USE OF A KEY, SPECIAL DEVICE OR SPECIAL KNOWLEDGE TO OPEN IN DIRECTION OF EGRESS.

SUPPLY ROOM GENERAL NOTE:
SUPPLY ROOM IS INTENDED FOR THE STORAGE OF INCIDENTAL OPERATIONAL AND MAINTENANCE SUPPLIES ONLY. THE ROOM IS NOT INTENDED FOR BULK STORAGE OF COMBUSTIBLE MATERIALS AND SHALL CONTAIN ONLY LIMITED QUANTITIES NECESSARY FOR DAILY BUILDING OPERATIONS. THE ROOM SHALL NOT BE USED FOR THE STORAGE OF SIGNIFICANT QUANTITIES OF COMBUSTIBLE, FLAMMABLE, HAZARDOUS, OR HIGH-PILE STORAGE MATERIALS. STORAGE OF MATERIALS SHALL BE LIMITED TO THOSE ASSOCIATED WITH NORMAL BUILDING OPERATIONS AND SHALL REMAIN IN COMPLIANCE WITH APPLICABLE BUILDING, FIRE, LIFE SAFETY, AND APPLICABLE STATE FIRE MARSHAL REQUIREMENTS. OWNER AND CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY PROPOSED CHANGE IN USE OR STORAGE CONTENTS THAT MAY AFFECT OCCUPANCY CLASSIFICATION, FIRE PROTECTION REQUIREMENTS, OR CODE COMPLIANCE.



FLOOR PLAN - 1,500 SF 1/4"=1'-0" (1)

MKE ARCHITECTS
MKE ARCHITECTS
9800 Airline Highway, Suite 217
Baton Rouge , Louisiana 70816
Office: 225-412-0048
www.mkearchitects.com
Contact: Kirk Edwards, AIA

Consultants Information:

Mechanical and Electrical:
GSE, INC.
1816 Pass Road
Gulfport, MS 39501
(228)864-5050
Contact: Dylan Wade, PE

Structural:
GSE, INC.
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(228)864-5050
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Project Location:
39018 LA-3089
DONALDSONVILLE, LA 70346

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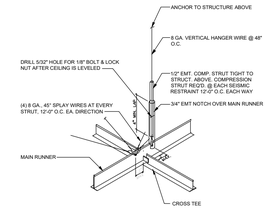
GENERAL RCP SHEET NOTES:

THE REFLECTED CEILING PLAN IS DIAGRAMMATIC AND IS PROVIDED TO ESTABLISH THE ARCHITECTURAL DESIGN INTENT ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE COORDINATION OF ALL CEILING-MOUNTED, CEILING-SUPPORTED, AND ABOVE-CEILING BUILDING COMPONENTS INCLUDING, BUT NOT LIMITED TO, CEILING GRIDS, LIGHT FIXTURES, HVAC DUCTWORK, DIFFUSERS, REGISTERS, GRILLES, SPRINKLER PIPING AND HEADS, FIRE ALARM DEVICES, SPEAKERS, SECURITY DEVICES, ACCESS PANELS, STRUCTURAL MEMBERS, CONDUIT, PIPING, CABLE TRAYS, EQUIPMENT SUPPORTS, AND ALL OTHER RELATED BUILDING SYSTEMS.

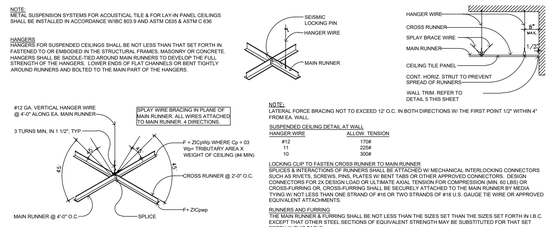
CONTRACTOR SHALL REVIEW AND COORDINATE THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, LOW VOLTAGE, AND EQUIPMENT DRAWINGS PRIOR TO INSTALLATION. CONTRACTOR SHALL VERIFY THAT ALL CEILING SYSTEMS AND BUILDING COMPONENTS CAN BE INSTALLED AS SHOWN AND SHALL IDENTIFY AND RESOLVE ALL CONFLICTS PRIOR TO COMMENCEMENT OF WORK.

CEILING GRID LAYOUTS, LIGHT FIXTURE LOCATIONS, DIFFUSER LOCATIONS, SPRINKLER HEAD LOCATIONS, ACCESS PANEL LOCATIONS, AND OTHER CEILING-MOUNTED DEVICES MAY REQUIRE MINOR FIELD ADJUSTMENTS TO ACCOMMODATE STRUCTURAL ELEMENTS, BUILDING SYSTEMS, AND INSTALLATION REQUIREMENTS. SUCH ADJUSTMENTS SHALL MAINTAIN THE ARCHITECT'S DESIGN INTENT, VISUAL ALIGNMENT, ACCESSIBILITY REQUIREMENTS, CODE COMPLIANCE, AND THE FUNCTIONAL REQUIREMENTS OF ALL BUILDING SYSTEMS.

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE, COORDINATED, AND FUNCTIONAL CEILING INSTALLATION REGARDLESS OF WHETHER ALL COMPONENTS OR CONDITIONS ARE SPECIFICALLY SHOWN ON THE DRAWINGS. ANY CONDITIONS REQUIRING SIGNIFICANT MODIFICATION OF THE ARCHITECTURAL DESIGN INTENT OR DEVIATIONS FROM THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR REVIEW PRIOR TO INSTALLATION. FAILURE TO COORDINATE WORK BETWEEN TRADES SHALL NOT BE BASIS FOR ADDITIONAL COST OR TIME EXTENSIONS.



SUSPENDED STRUT DETAIL N.T.S. 3



SUSPENDED CEILING DETAILS N.T.S. 2

RCP CEILING LEGEND:	
	2X4 ACOUSTICAL CEILING TILE (SECOND LOOK ACT 1 UNLESS OTHERWISE NOTED)
	PRE-FINISHED METAL SOFFIT PANELS AND ASSOCIATED TRIM

RCP FIXTURE LEGEND:	
	2X4 LAY-IN LED FIXTURE
	2X2 LED FIXTURE
	EMERGENCY LIGHT W/APPROVED BATTERY BACKUP
	EXIT LIGHT W/APPROVED BATTERY BACKUP
	EMERGENCY EXTERIOR EXIT LIGHT W/APPROVED BATTERY BACKUP

BASIS OF DESIGN – METAL SOFFIT PANEL SYSTEM: (VENTED)

THE BASIS OF DESIGN FOR THE METAL SOFFIT PANEL SYSTEM IS THE MARQUEE-LOK CONCEALED FASTENER SOFFIT PANEL AS MANUFACTURED BY MBCI, OR APPROVED EQUAL.

SOFFIT PANEL SYSTEM SHALL PROVIDE THE FOLLOWING MINIMUM CHARACTERISTICS:

CONCEALED FASTENER PANEL SYSTEM.
FACTORY-FORMED STEEL OR ALUMINUM CONSTRUCTION, (VENTED) SMOOTH, FLUSH APPEARANCE WITH INTERLOCKING PANEL JOINTS.
MINIMUM 24-GAUGE STEEL THICKNESS OR EQUIVALENT ALUMINUM THICKNESS.
FACTORY-APPLIED PVDF (KYNAR 500® OR HYLAR 5000®) FINISH IN COLOR SELECTED BY OWNER.
COMPLETE SYSTEM INCLUDING ALL REQUIRED TRIM, CLOSURES, SUPPORT MEMBERS, FLASHINGS, AND ACCESSORIES.
SUITABLE FOR EXTERIOR SOFFIT APPLICATIONS AND CAPABLE OF WITHSTANDING PROJECT-SPECIFIC WIND LOAD REQUIREMENTS.
INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

SUBSTITUTION REQUESTS SHALL DEMONSTRATE EQUIVALENT PERFORMANCE, PANEL GEOMETRY, APPEARANCE, MATERIAL QUALITY, FINISH DURABILITY, STRUCTURAL CAPACITY, AND INSTALLATION REQUIREMENTS. ACCEPTANCE OF ALTERNATE PRODUCTS SHALL BE SUBJECT TO REVIEW BY THE ARCHITECT.

BASIS OF DESIGN IS ESTABLISHED TO DEFINE THE MINIMUM QUALITY, PERFORMANCE, APPEARANCE, AND FUNCTIONAL REQUIREMENTS OF THE SYSTEM. ACCEPTANCE OF SUBSTITUTIONS SHALL NOT BE CONSTRUED AS A REDUCTION IN THESE REQUIREMENTS.

VENTED SOFFIT REQUIREMENT: PROVIDE VENTED METAL SOFFIT PANELS AT ALL SOFFIT LOCATIONS UNLESS OTHERWISE NOTED. NET FREE VENTILATION AREA SHALL BE SUFFICIENT TO SATISFY APPLICABLE BUILDING CODE REQUIREMENTS FOR ATTIC AND ROOF CAVITY VENTILATION. CONTRACTOR SHALL COORDINATE VENTED PANEL LOCATIONS, PERCENT OPEN AREA, INSECT SCREENING, AND ASSOCIATED ACCESSORIES WITH THE METAL PANEL MANUFACTURER AND PROJECT CONDITIONS.

WALL AND CEILING FINISHES:

*INTERIOR WALL AND CEILING FINISH MATERIALS:
INTERIOR WALL AND CEILING FINISH MATERIALS SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM E 84 OR UL 723. SUCH INTERIOR FINISH MATERIALS SHALL BE GROUPED IN THE FOLLOWING CLASS IN ACCORDANCE WITHER THEIR FLAME SPREAD AND SMOKE DEVELOPED INDEXES

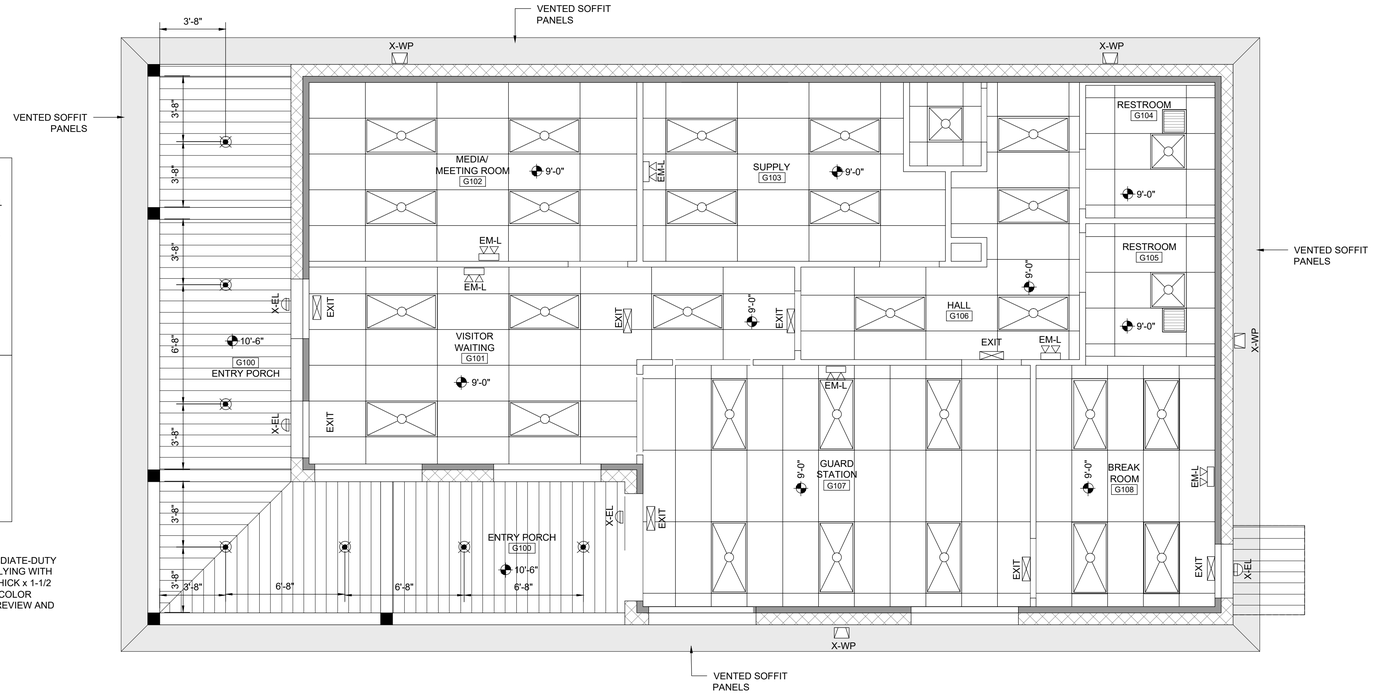
CLASS A: = FLAME SPREAD INDEX 0-25; SMOKE DEVELOPED INDEX 0-450
CLASS B: = FLAME SPREAD INDEX 26-75; SMOKE DEVELOPED INDEX 0-450
CLASS C: = FLAME SPREAD INDEX 76-200; SMOKE DEVELOPED INDEX 0-450

* ACT CEILINGS = "BASIS OF DESIGN"
2' X 4' ARMSTRONG
"1732" LAY-IN PANEL
NRC: 0.55
CAC: 35
SAG RESISTANCE: HUMIGUARD PLUS
FIRE RATING: CLASS A
MATERIAL TYPE: MINERAL FIBER
MOLD/MILDEW: BIOBLOCK
SUSPENSION SYSTEM: 15/16"

*CONTRACTOR TO SUBMIT PHYSICAL SAMPLE TO OWNER FOR FINAL APPROVAL

GENERAL ACT CEILING NOTE:

STYLE: 24" x 48" x 3/4" LAY-IN CEILING TILES WITH INTERMEDIATE-DUTY DOUBLE WEB, DIRECT-HUNG SUSPENSION SYSTEM COMPLYING WITH ASTM C635 OF ELECTRO-GALVANIZED STEEL 0.015 INCH THICK x 1-1/2 INCH HIGH x 15/16 INCH FACE INSTALLED PER ASTM C636. COLOR BY OWNER. SUBMIT PHYSICAL SAMPLES TO OWNER FOR REVIEW AND APPROVAL PRIOR TO PURCHASE.



REFLECTED CEILING PLAN 1/4"=1'-0" 1

MKE ARCHITECTS
MKE ARCHITECTS
9800 Airline Highway, Suite 217
Baton Rouge , Louisiana 70816
Office: 225-412-0048
www.mkearchitects.com
Contact: Kirk Edwards, AIA

Consultants Information:

Mechanical and Electrical:
GSE, INC.
1816 Pass Road
Gulfport, MS 39501
(228)864-5050
Contact: Dylan Wade, PE

Structural:
GSE, INC.
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39018 LA-3089
DONALDSONVILLE, LA 70346

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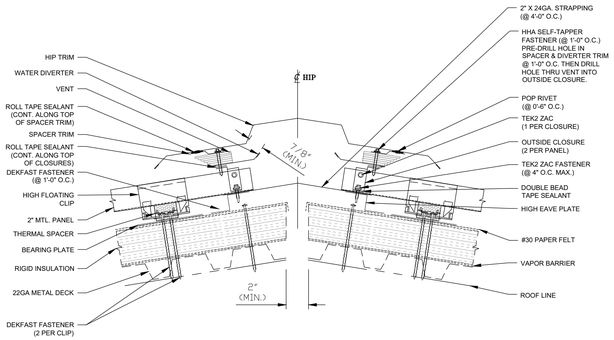
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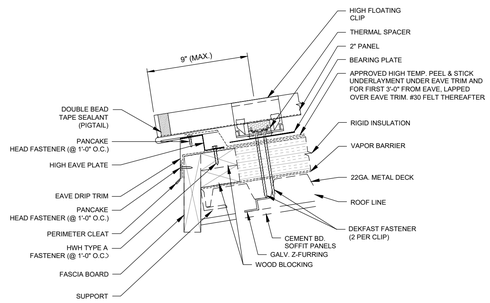
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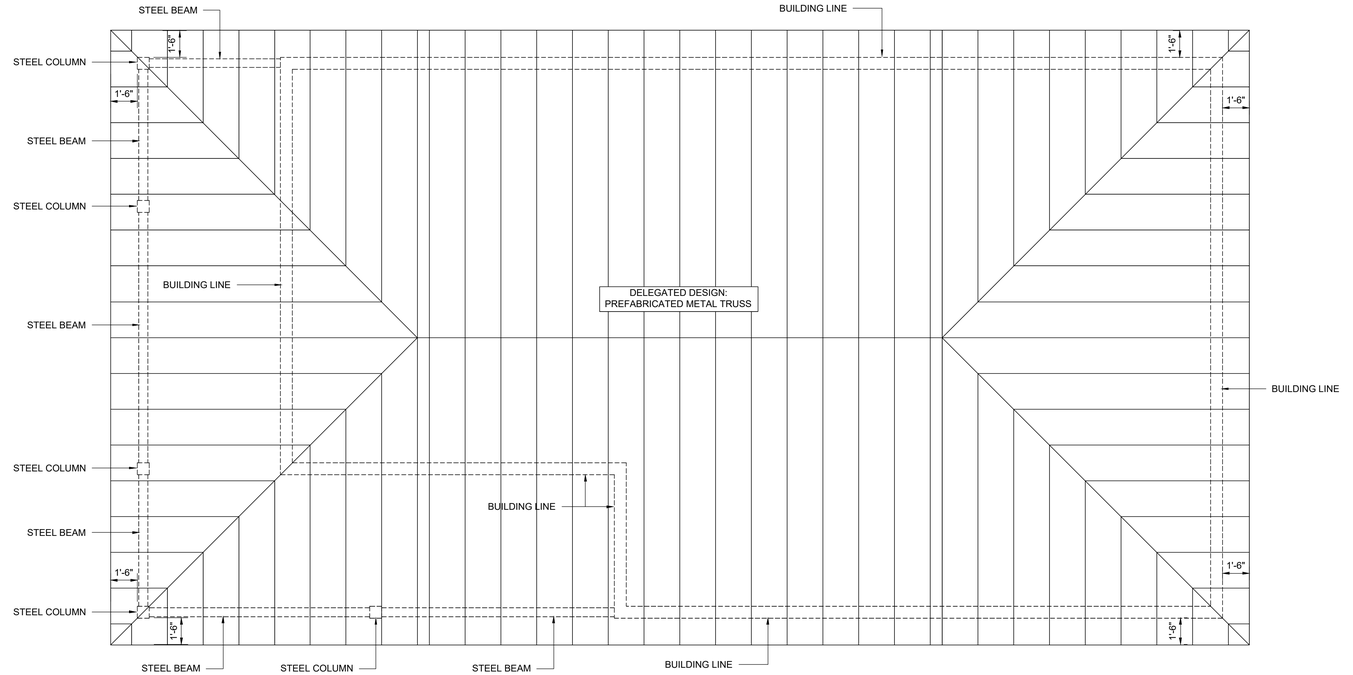
HIP DETAIL

NTS 4



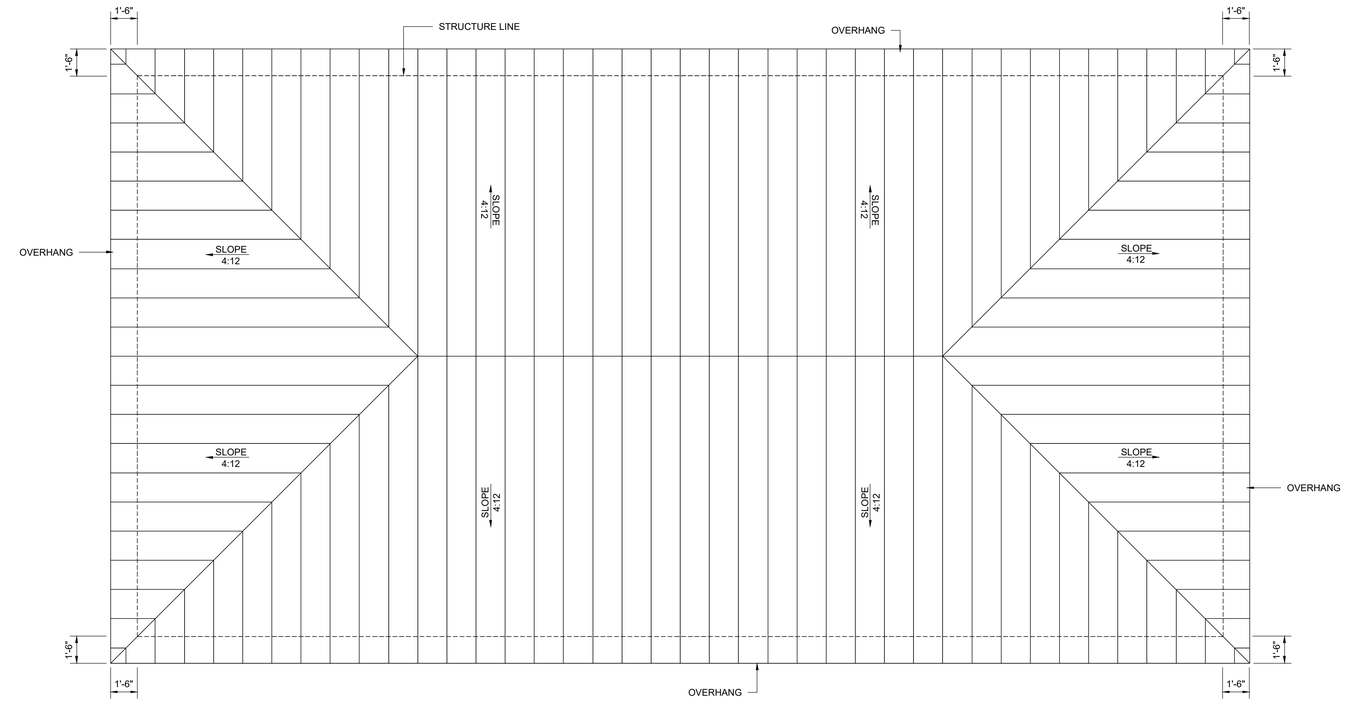
EAVE DRIP TRIM DETAIL

NTS 3



ROOF FRAMING PLAN

1/4"=1'-0" 2



ROOF PLAN

1/4"=1'-0" 1

DELEGATED DESIGN – PRE-ENGINEERED / PREFABRICATED METAL TRUSSES:

THE CONTRACTOR SHALL RETAIN A QUALIFIED PROFESSIONAL ENGINEER LICENSED IN THE PROJECT JURISDICTION TO DESIGN, ENGINEER, DETAIL, AND CERTIFY ALL PREFABRICATED AND/OR PRE-ENGINEERED METAL TRUSSES, CONNECTIONS, BRACING, ANCHORAGE, AND RELATED STRUCTURAL COMPONENTS REQUIRED FOR THE PROJECT.

DELEGATED DESIGN SHALL INCLUDE, BUT NOT BE LIMITED TO:

DESIGN OF ALL METAL TRUSSES, MEMBERS, CONNECTIONS, HANGERS, BEARING CONDITIONS, AND ACCESSORIES.
DESIGN OF ALL TEMPORARY AND PERMANENT BRACING REQUIRED FOR ERECTION AND FINAL IN-SERVICE CONDITIONS.
COORDINATION WITH STRUCTURAL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND OTHER BUILDING SYSTEMS.
DESIGN FOR ALL APPLICABLE DEAD, LIVE, ROOF, WIND, SEISMIC, COLLATERAL, EQUIPMENT, AND OTHER CODE-REQUIRED LOADS.
VERIFICATION OF DEFLECTION LIMITS, SERVICEABILITY REQUIREMENTS, AND STRUCTURAL PERFORMANCE.
DESIGN OF CONNECTIONS AND ANCHORAGE TO SUPPORTING STRUCTURE.
COMPLIANCE WITH ALL APPLICABLE BUILDING CODES, REFERENCED STANDARDS, MANUFACTURER REQUIREMENTS, AND PROJECT-SPECIFIC DESIGN CRITERIA.

SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED, SIGNED, AND SEALED BY THE DELEGATED DESIGN ENGINEER AND SUBMITTED FOR REVIEW PRIOR TO FABRICATION. ARCHITECT/ENGINEER REVIEW IS FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT ONLY AND SHALL NOT RELIEVE THE CONTRACTOR OR DELEGATED DESIGN ENGINEER OF RESPONSIBILITY FOR THE COMPLETENESS, ACCURACY, OR PERFORMANCE OF THE DESIGN.

BASIS OF DESIGN – STANDING SEAM METAL ROOF SYSTEM:

THE BASIS OF DESIGN FOR THE STANDING SEAM METAL ROOF SYSTEM IS A 2-INCH HIGH MAXIMA STANDING SEAM ROOF PANEL OR APPROVED EQUAL.

ROOF PANEL SYSTEM SHALL PROVIDE THE FOLLOWING MINIMUM CHARACTERISTICS:

2-INCH-TALL MECHANICALLY SEAMED STANDING SEAM PROFILE.
FACTORY-FORMED GALVALUME OR GALVANIZED STEEL SUBSTRATE.
MINIMUM 24-GAUGE THICKNESS UNLESS OTHERWISE NOTED.
CONCEALED CLIP FASTENING SYSTEM ALLOWING FOR THERMAL MOVEMENT.
HIGH-WIND UPLIFT RESISTANCE SUITABLE FOR PROJECT LOCATION AND CODE REQUIREMENTS.
WEATHER-TIGHT DESIGN WITH MANUFACTURER'S STANDARD ACCESSORIES, CLOSURES, FLASHINGS, AND TRIM.
FACTORY-APPLIED PVDF (KYNAR 500 OR HYLAR 5000) FINISH IN COLORS SELECTED BY OWNER.
COMPLIANCE WITH APPLICABLE ASTM, IBC, AND LOCAL CODE REQUIREMENTS.

SUBSTITUTION REQUESTS SHALL DEMONSTRATE EQUIVALENT PERFORMANCE, PROFILE HEIGHT, WEATHER RESISTANCE, STRUCTURAL CAPACITY, FINISH QUALITY, WIND UPLIFT RESISTANCE, AND WARRANTY PROVISIONS. ACCEPTANCE OF AN ALTERNATE PRODUCT SHALL BE SUBJECT TO REVIEW BY THE ARCHITECT.

BASIS OF DESIGN IS ESTABLISHED TO DEFINE THE QUALITY, PERFORMANCE, APPEARANCE, AND FUNCTIONAL REQUIREMENTS OF THE SYSTEM. ACCEPTANCE OF SUBSTITUTIONS SHALL NOT BE CONSTRUED AS A REDUCTION IN THESE REQUIREMENTS.

ARCHITECTURAL STANDING SEAM METAL ROOF PANELS NOTE:

* ARCHITECTURAL STANDING SEAM METAL ROOF PANEL REQUIREMENT ABOVE CONDITIONED SPACE TO COMPLY WITH ONE OF THE FOLLOWING:

  1) MINIMUM THREE-YEAR AGED SOLAR REFLECTANCE OF 0.55 AND MINIMUM THREE-YEAR AGED THERMAL EMITTANCE OF 0.75
     OR
  2) THREE-YEAR AGED SOLAR REFLECTANCE INDEX OF 64

* CONTRACTOR AND ROOF MANUFACTURER TO CONFIRM THAT ALL CURRENT STATE AND LOCAL WIND CODES WILL COMPLY WITH MOST RECENT CODE STANDARD. CONFIRM LOCAL WIND SPEED REQUIREMENTS PER LOCAL CODE STANDARDS

MKE ARCHITECTS
MKE ARCHITECTS
9800 Airline Highway, Suite 217
Baton Rouge , Louisiana 70816
Office: 225-412-0048
www.mkearchitects.com
Contact: Kirk Edwards, AIA

Consultants Information:

Mechanical and Electrical:
GSE, INC.
1816 Pass Road
Gulfport, MS 39501
(228)864-5050
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SECTION 096519 - RESILIENT TILE FLOORING (VCT)

VCT NOTES:
-FLOOR TO MEET STANDARDS IDENTIFIED IN SECTION
804 " INTERIOR FLOOR FINISH" IBC 2015
-COLORS AND PATTERNS: AS DETERMINED BY OWNER

PART 1 - GENERAL

-1.1 SUMMARY
A. Section Includes:
1. Vinyl composition floor tile.

-1.2 ACTION SUBMITTALS
A. Product Data: For each type of product.
B. Samples: Full-size units of each color and pattern of floor tile required.

-1.3 CLOSEOUT SUBMITTALS
Maintenance data.

-1.4 QUALITY ASSURANCE
A. Single-Source Responsibility: provide types of flooring and accessories supplied by one manufacturer, including moisture mitigation systems, primers, leveling and patching compounds, and adhesives.
B. Select an installer who is experienced and competent in the installation of Armstrong resilient vinyl composition tile flooring and the use of Armstrong Flooring subfloor preparation products.
1. Engage installers Certified as Selected Manufacturer Certified Installers
2. Confirm installer's certification by requesting their credentials
C. Fire Performance Characteristics: Provide resilient vinyl composition tile flooring with the following fire performance characteristics as determined by testing material in accordance with ASTM test methods indicated below by a certified testing laboratory or other testing agency acceptable to authorities having jurisdiction:
1. ASTM E 648 Critical Radiant Flux of 0.45 watts per sq. cm. or greater, Class I
2. ASTM E 662 (Smoke Generation) Maximum Specific Optical Density of 450 or less
3. CAN/ULC-S102.2 – Flame Spread Rating and Smoke Developed – Results as tested.

-1.5 DELIVERY, STORAGE AND HANDLING
A. Comply with Division 1 Product Requirements Sections
B. Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.
C. Deliver materials in good condition to the jobsite in the manufacturer's original unopened containers that bear the name and brand of the manufacturer, project identification, and shipping and handling instructions.
D. Store materials in a clean, dry, enclosed space off the ground, protected from harmful weather conditions and at temperature and humidity conditions recommended by the manufacturer. Protect adhesives from freezing. Store flooring, adhesives and accessories in the spaces where they will be installed for at least 48 hours before beginning installation.

-1.6 PROJECT CONDITIONS
A. Maintain a minimum temperature in the spaces to receive the flooring and accessories of 65ºF (18ºC) and a maximum temperature of 85ºF (29ºC) for at least 48 hours before, during, and for not less than 48 hours after installation. Thereafter, maintain a minimum temperature of 55ºF (13ºC) in areas where work is completed. Protect all materials from the direct flow of heat from hot-air registers, radiators, or other heating fixtures and appliances. Refer to the Manufacturers Guaranteed Installations Systems manual, for a complete guide on project conditions.

-1.7 LIMITED WARRANTY
A. Resilient Flooring: Submit a written warranty executed by the manufacturer, agreeing to repair or replace resilient flooring that fails within the warranty period.
B. Limited Warranty Period: 5 years
C. Limited Warranty shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and will be in addition to and run concurrent with other warranties made by the Contractor under the requirements of the Contract Documents.
D. For the Limited Warranty to be valid, this product is required to be installed using the appropriate Manufacturers Guaranteed Installation System. Product installed not using the specific instructions from the Guaranteed Installation System will void the warranty.

-1.8 MAINTENANCE
A. Extra Materials: Deliver extra materials to Owner. Furnish extra materials from same production run as products installed. Packaged with protective covering for storage and identified with appropriate labels.
1. Quantity: Furnish quantity of flooring units equal to 10 % of amount installed.
2. Delivery, Storage and Protection: Comply with Owner's requirements for delivery, storage and protection of extra material.

PART 2 - PRODUCTS

-2.1 MANUFACTURER
A. Resilient tile flooring, adhesives and subfloor preparation products and accessories:
1. Manufacturer must have a headquarters in the United States of America

-2.2 PERFORMANCE REQUIREMENTS
A. Fire-Test-Response Characteristics: For resilient tile flooring, as determined by testing identical products according to ASTM E 648 or NFPA 253 by a qualified testing agency.
1. Critical Radiant Flux Classification: Class I, not less than 0.45 W/sq. cm.

-2.3 SOLID VINYL FLOOR TILE
A. PRODUCT: As indicated on Finish Floor Plan and Finish Schedule
B. Tile Standard: ASTM F 1700.
1. Class: As indicated by product designations
2. Type: As indicated by product designations
A. Thickness: Per Manufacturer
B. Size: As indicated on Finish Floor Plan and Finish Schedule
C. Colors and Patterns: As selected by Architect from full range of industry colors.

-2.4 INSTALLATION MATERIALS
A. Trowelable Leveling and Patching Compounds: Latex-modified, portland cement based or blended hydraulic-cement-based formulation provided or approved by floor tile manufacturer for applications indicated.
B. Adhesives: Water-resistant type recommended by floor tile and adhesive manufacturers to suit floor tile and substrate conditions indicated.

PART 3 - EXECUTION

-3.01 MANUFACTURER'S INSTRUCTIONS
A. Compliance: Comply with manufacturer's product data, including technical bulletins, product catalog, installation instructions, and product carton instructions for installation and maintenance procedures as needed.

-3.02 EXAMINATION
A. Site Verification of Conditions: Verify substrate conditions (which have been previously installed under other sections) are acceptable for product installation in accordance with manufacturer's instructions (i.e. moisture tests, bond test, pH test, etc.).
B. Visually inspect flooring materials, adhesives and accessories prior to installation. Flooring material with visual defects shall not be installed and shall not be considered as a legitimate claim.
C. Examine subfloors prior to installation to determine that surfaces are smooth and free from cracks, holes, ridges, and other defects that might prevent adhesive bond or impair durability or appearance of the flooring material.
D. Inspect subfloors prior to installation to determine that surfaces are free from curing, sealing, parting and hardening compounds; residual adhesives; adhesive removers; and other foreign materials that might prevent adhesive bond. Visually inspect for evidence of moisture, alkaline salts, carbonation, dusting, mold, or mildew.
E. Report conditions contrary to contract requirements that would prevent a proper installation. Do not proceed with the installation until unsatisfactory conditions have been corrected.
F. Failure to call attention to defects or imperfections will be construed as acceptance and approval of the subfloor. Installation indicates acceptance of substrates with regard to conditions existing at the time of installation.
G. Concrete Substrates: Prepare according to ASTM F 710.
1. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
2. Remove substrate coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by floor tile manufacturer. Do not use solvents.
3. Alkalinity and Adhesion Testing: Perform tests recommended by floor tile manufacturer. Proceed with installation only after substrate alkalinity falls within range on pH scale recommended by manufacturer in writing, but not less than 5 or more than 10 pH.
4. Moisture Testing: Proceed with installation only after substrates pass testing according to floor tile manufacturer's written recommendations, but not less stringent than the following:
a. Perform anhydrous calcium chloride test according to ASTM F 1869. Proceed with installation only after substrates have maximum moisture-vapor-emission rate of 3 lb of water/1000 sq. ft. in 24 hours.
H. Fill cracks, holes, and depressions in substrates with trowelable leveling and patching compound; remove bumps and ridges to produce a uniform and smooth substrate.
J. Do not install floor tiles until they are the same temperature as the space where they are to be installed. Immediately before installation, sweep and vacuum clean substrates to be covered by resilient floor tile
K. Immediately before installation, sweep and vacuum clean substrates to be covered by resilient floor tile.

-3.04 INSTALLATION OF FLOORING
A. Install flooring in strict accordance with the latest edition of Manufacturers Guaranteed Installation Systems manual. Failure to comply may result in voiding the manufacturer's warranty.
B. Install flooring wall to wall before the installation of floor-set cabinets, casework, furniture, equipment, movable partitions, etc. Extend flooring into toe spaces, door recesses, closets, and similar openings as shown on the drawings.
C. If required, install flooring on pan-type floor access covers. Maintain continuity of color and pattern within pieces of flooring installed on these covers. Adhere flooring to the subfloor around covers and to covers.
D. Scribe, cut, and fit to permanent fixtures, columns, walls, partitions, pipes, outlets, and builtin furniture and cabinets.
E. Install flooring with adhesives, tools, and procedures in strict accordance with the manufacturer's written instructions. Observe the recommended adhesive trowel notching, open times, and working times.
F. Lay out floor tiles from center marks established with principal walls, discounting minor offsets, so tiles at opposite edges of room are of equal width. Adjust as necessary to avoid using cut widths that equal less than one-half tile at perimeter.
G. Match floor tiles for color and pattern by selecting tiles from cartons in the same sequence as manufactured and packaged, if so numbered. Discard broken, cracked, chipped, or deformed tiles
H. Scribe, cut, and fit floor tiles to butt neatly and tightly to vertical surfaces and permanent fixtures including built-in furniture, cabinets, pipes, outlets, and door frames.
J. Extend floor tiles into toe spaces, door reveals, closets, and similar openings. Extend floor tiles to center of door openings.
K. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on floor tiles as marked on substrates. Use chalk or other nonpermanent marking device.
L. Install floor tiles on covers for telephone and electrical ducts, building expansion-joint covers, and similar items in finished floor areas. Maintain overall continuity of color and pattern between pieces of tile installed on covers and adjoining tiles. Tightly adhere tile edges to substrates that abut covers and to cover perimeters.
M. Adhere floor tiles to flooring substrates using a full spread of adhesive applied to substrate to produce a completed installation without open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, and other surface imperfections.

-3.06 CLEANING
A. Perform initial and on-going maintenance according to the latest edition of the maintenance recommendations for the selected product.

-3.07 PROTECTION
A. Protect installed flooring as recommended by the flooring manufacturer against damage from rolling loads, other trades, or the placement of fixtures and furnishings.
B. Cover floor tile until Substantial Completion.

FINISH PLAN GENERAL SHEET NOTE:

FINISH PLANS, FINISH SCHEDULES, AND FINISH LEGENDS ARE INTENDED TO CONVEY THE ARCHITECTURAL DESIGN INTENT ONLY. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS, DIMENSIONS, SUBSTRATES, TRANSITIONS, AND INSTALLATION REQUIREMENTS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL COORDINATE ALL FINISHES WITH DOORS, FRAMES, CASEWORK, MILLWORK, EQUIPMENT, WALL BASES, FLOOR PENETRATIONS, ACCESS PANELS, FLOOR DRAINS, ELECTRICAL DEVICES, PLUMBING FIXTURES, AND OTHER RELATED BUILDING COMPONENTS.

FINAL SELECTION OF FINISH MATERIALS, COLORS, PATTERNS, TEXTURES, SHEENS, AND SIMILAR AESTHETIC CHARACTERISTICS SHALL BE MADE BY THE OWNER FROM THE OPTIONS IDENTIFIED IN THE CONTRACT DOCUMENTS OR AS OTHERWISE APPROVED BY THE ARCHITECT. CONTRACTOR SHALL COORDINATE ALL FINISH SELECTIONS WITH THE OWNER PRIOR TO PROCUREMENT AND INSTALLATION.

CONTRACTOR SHALL PROVIDE ALL REQUIRED TRANSITION STRIPS, TRIM PIECES, EDGE CONDITIONS, CONTROL JOINTS, EXPANSION JOINTS, ACCESSORIES, BACKING, AND PREPARATORY WORK NECESSARY TO ACHIEVE A COMPLETE AND FINISHED INSTALLATION, WHETHER OR NOT SPECIFICALLY INDICATED ON THE DRAWINGS. FINISH MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS AND INDUSTRY STANDARDS.

ANY DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS, FIELD CONDITIONS, OR FINISH MATERIAL REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO INSTALLATION. FINISH INSTALLATION SHALL NOT PROCEED UNTIL SUCH DISCREPANCIES HAVE BEEN RESOLVED.

WALL AND CEILING FINISHES:

*INTERIOR WALL AND CEILING FINISH MATERIALS:
INTERIOR WALL AND CEILING FINISH MATERIALS SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM E 84 OR UL 723. SUCH INTERIOR FINISH MATERIALS SHALL BE GROUPED IN THE FOLLOWING CLASS IN ACCORDANCE WITH THEIR FLAME SPREAD AND SMOKE DEVELOPED INDEXES

CLASS A: = FLAME SPREAD INDEX 0-25; SMOKE DEVELOPED INDEX 0-450

*ALL CEILINGS TO BE CLASS "A"

*ALL CEILINGS IN RESTROOMS / UTILITY TO BE MOISTURE / MOLD / MILDEW / SAG RESISTANT

FLOOR FINISH LEGEND:

	VCT-1 VINYL COMPOSITION TILE INSTALLED PER MANUFACTURES RECOMMENDATION. INSTALL 4" HIGH VINYL WALL BASE TYP. 6" HIGH VINYL WALL BASE IN RESTROOMS COLOR: PER OWNER
	CONC.-1 SEALED CONCRETE

PAINT NOTE:

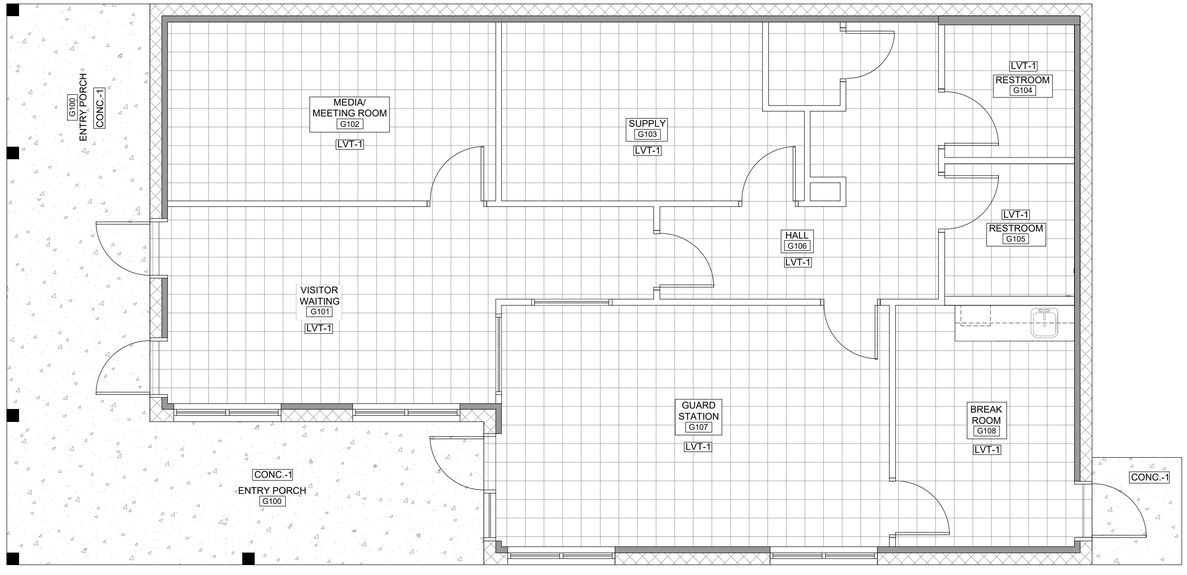
* CONTRACTOR TO PROVIDE A PAINT SCHEDULE PREPARED BY A QUALIFIED PROFESSIONAL COATINGS EXPERT

BASIS OF DESIGN:

EXTERIOR SYSTEMS
A. FERROUS METALS:
1. LOCATION: EXTERIOR HM DOORS, FRAMES, RAILINGS, MISC. STEEL
2. PRIMER: PRO INDUSTRIAL PRO-CRYL UNIVERSAL ACRYLIC PRIMER
3. 2 COATS: SW DTM ACRYLIC COATING SEMI-GLOSS
B. EXPOSED CMU:
1. LOCATION: EXTERIOR WALLS
2. FILLER / PRIMER: LOXON SURFACER
3. 2 COATS: HIGH-BUILD ELASTOMERIC DTM ACRYLIC COATING - SEMI-GLOSS

INTERIOR SYSTEMS
A. EXPOSED CMU:
1. LOCATION: INTERIOR WALLS
2. FILLER/PRIMER: LOXON SURFACER
3. 2 COATS: PM 200 ZERO VOC EGGSHELL ACRYLIC PAINT
B. FERROUS METALS:
1. LOCATION: HM DOORS / FRAMES, STAIRS, RAILS, RAILINGS AND MISC. METALS
C. FERROUS METALS:
1. LOCATION: EXPOSED STRUCTURE AT CEILINGS
2. 2 COATS: SW WATERBORNE ACRYLIC DRY FALL FLAT
D. GALVANIZED METALS:
1. LOCATION: EXPOSED DECKING
2. 2 COATS: SW WATERBORNE ACRYLIC DRY FALL FLAT
E. INTERIOR DRYWALL-WALLS
1. LOCATION: INTERIOR WALLS
2. PRIMER: PROMAR 200 ZERO VOC LATEX PRIMER
3. 2 COATS: PROMAR 200 ZERO VOC ACRYLIC LATEX EGGSHELL

GENERAL PAINT NOTE:
PREPARE CMU SURFACES IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. PROVIDE ONE (1) COAT SHERWIN-WILLIAMS LOXON MASONRY SURFACER OR APPROVED EQUAL. PROVIDE TWO (2) COATS HIGH-BUILD ELASTOMERIC ACRYLIC MASONRY COATING, SEMI-GLOSS FINISH, AT MANUFACTURER'S RECOMMENDED SPREAD RATE TO ACHIEVE REQUIRED DRY FILM THICKNESS. PROVIDE ADDITIONAL COATS AS REQUIRED TO ACHIEVE UNIFORM APPEARANCE AND COMPLETE COVERAGE.



FINISH PLAN

1/4"=1'-0"

1

MKE ARCHITECTS
MKE ARCHITECTS
9800 Airline Highway, Suite 217
Baton Rouge , Louisiana 70816
Office: 225-412-0048
www.mkearchitects.com
Contact: Kirk Edwards, AIA

Consultants Information:

Mechanical and Electrical:
GSE, INC.
1816 Pass Road
Gulfport, MS 39501
(228)864-5050
Contact: Dylan Wade, PE

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ARCHITECTURAL STANDING SEAM METAL ROOF PANELS NOTE:

* ARCHITECTURAL STANDING SEAM METAL ROOF PANEL REQUIREMENT ABOVE CONDITIONED SPACE TO COMPLY WITH ONE OF THE FOLLOWING:

1) MINIMUM THREE-YEAR AGED SOLAR REFLECTANCE OF 0.55 AND MINIMUM THREE-YEAR AGED THERMAL EMITTANCE OF 0.75
OR
2) THREE-YEAR AGED SOLAR REFLECTANCE INDEX OF 64

ARCHITECTURAL MATERIAL KEY:

1 STANDING SEAM METAL ROOF

2 8" PAINTED CMU

BASIS OF DESIGN – STANDING SEAM METAL ROOF SYSTEM:

THE BASIS OF DESIGN FOR THE STANDING SEAM METAL ROOF SYSTEM IS A 2-INCH HIGH MAXIMA STANDING SEAM ROOF PANEL OR APPROVED EQUAL.

ROOF PANEL SYSTEM SHALL PROVIDE THE FOLLOWING MINIMUM CHARACTERISTICS:

2-INCH-TALL MECHANICALLY SEAMED STANDING SEAM PROFILE.
FACTORY-FORMED GALVALUME OR GALVANIZED STEEL SUBSTRATE.
MINIMUM 24-GAUGE THICKNESS UNLESS OTHERWISE NOTED.
CONCEALED CLIP FASTENING SYSTEM ALLOWING FOR THERMAL MOVEMENT.
HIGH-WIND UPLIFT RESISTANCE SUITABLE FOR PROJECT LOCATION AND CODE REQUIREMENTS.
WEATHER-TIGHT DESIGN WITH MANUFACTURER'S STANDARD ACCESSORIES, CLOSURES, FLASHINGS, AND TRIM.
FACTORY-APPLIED PVDF (KYNAR 500 OR HYLAR 5000) FINISH IN COLORS SELECTED BY OWNER.
COMPLIANCE WITH APPLICABLE ASTM, IBC, AND LOCAL CODE REQUIREMENTS.

SUBSTITUTION REQUESTS SHALL DEMONSTRATE EQUIVALENT PERFORMANCE, PROFILE HEIGHT, WEATHER RESISTANCE, STRUCTURAL CAPACITY, FINISH QUALITY, WIND UPLIFT RESISTANCE, AND WARRANTY PROVISIONS. ACCEPTANCE OF AN ALTERNATE PRODUCT SHALL BE SUBJECT TO REVIEW BY THE ARCHITECT.

BASIS OF DESIGN IS ESTABLISHED TO DEFINE THE QUALITY, PERFORMANCE, APPEARANCE, AND FUNCTIONAL REQUIREMENTS OF THE SYSTEM. ACCEPTANCE OF SUBSTITUTIONS SHALL NOT BE CONSTRUED AS A REDUCTION IN THESE REQUIREMENTS.

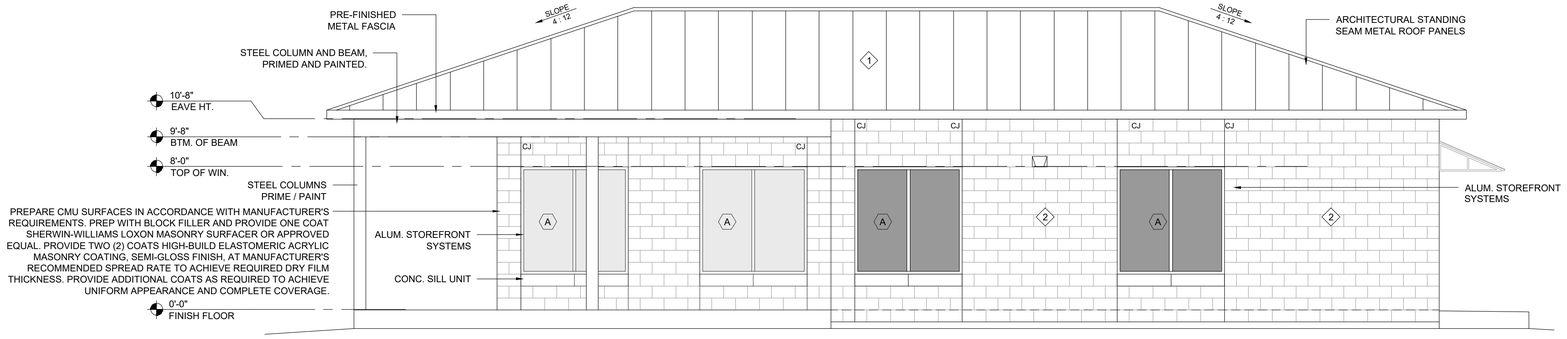
CMU WALL PENETRATION NOTE:
LOCATIONS OF OPENINGS, SLEEVES, RECESSES, EMBEDS, AND PENETRATIONS IN CMU WALLS SHALL BE COORDINATED WITH AND APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY ALL REQUIRED PENETRATIONS WITH THE OWNER AND APPLICABLE TRADES PRIOR TO INSTALLATION. FINAL LOCATIONS OF ALL CMU WALL PENETRATIONS SHALL BE CONFIRMED BY THE OWNER IN THE FIELD BEFORE ANY CUTTING, CORING, OR MASONRY CONSTRUCTION COMMENCES. ANY MODIFICATIONS REQUIRED TO ACCOMMODATE OWNER-DIRECTED FIELD CHANGES SHALL BE COORDINATED WITH THE STRUCTURAL ENGINEER AND SHALL NOT BE MADE WITHOUT APPROPRIATE REVIEW AND APPROVAL.

GENERAL SHEET NOTE: CMU WALLS:
CMU WALL DIMENSIONS SHOWN ON THE DRAWINGS ARE INTENDED TO ESTABLISH DESIGN INTENT ONLY. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND SHALL LAYOUT CMU WALLS TO OPTIMIZE BLOCK MODULES, MAINTAIN REQUIRED OPENING SIZES, AND MINIMIZE CUT BLOCKS. MINOR ADJUSTMENTS TO WALL LENGTHS, OPENING LOCATIONS, AND CONTROL JOINT LOCATIONS MAY BE MADE AS REQUIRED TO ACCOMMODATE STANDARD CMU MODULES WITHOUT IMPACTING THE DESIGN INTENT OR FUNCTION OF THE BUILDING. CONTRACTOR SHALL COORDINATE ALL FOUNDATION WALLS, FOOTINGS, THICKENED SLABS, DOWELS, ANCHOR BOLTS, AND RELATED STRUCTURAL ELEMENTS TO MATCH THE FINAL CMU WALL LAYOUT. ANY FOUNDATION MODIFICATIONS REQUIRED TO ACCOMMODATE THE FINAL CMU MODULE LAYOUT SHALL BE INCLUDED AS PART OF THE WORK. COORDINATE ALL MODIFICATIONS WITH THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.

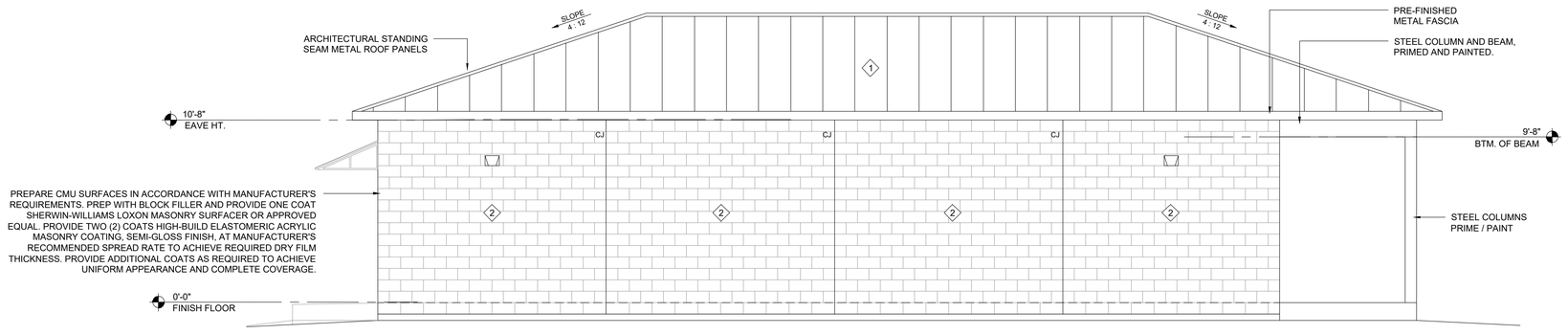
GENERAL SHEET NOTE: CMU CONTROL JOINTS:
CMU CONTROL JOINT LOCATIONS HAVE BEEN DETERMINED BY THE STRUCTURAL ENGINEER. REFER TO THE STRUCTURAL DRAWINGS FOR ALL CONTROL JOINT LOCATIONS, DETAILS, REINFORCING REQUIREMENTS, AND ASSOCIATED FOUNDATION COORDINATION. THE STRUCTURAL DRAWINGS SHALL GOVERN IN THE EVENT OF ANY CONFLICT WITH THE ARCHITECTURAL DRAWINGS.

CMU CONTROL JOINT NOTE:
-CONTRACTOR TO REFER TO STRUCTURAL DOCUMENTS FOR EXACT CONTROL JOINT LOCATIONS WITHIN CMU WALLS

* CONTRACTOR AND ROOF MANUFACTURER TO CONFIRM THAT ALL CURRENT STATE AND LOCAL WIND CODES WILL COMPLY WITH MOST RECENT CODE STANDARD. CONFIRM LOCAL WIND SPEED REQUIREMENTS PER LOCAL CODE STANDARDS



EXTERIOR ELEVATIONS -SIDE — 1/4"=1'-0" (4)

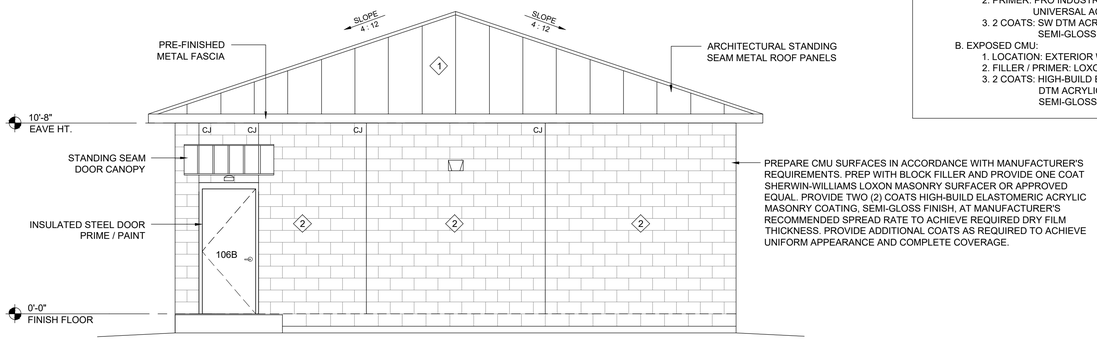


EXTERIOR ELEVATIONS - SIDE — 1/4"=1'-0" (3)

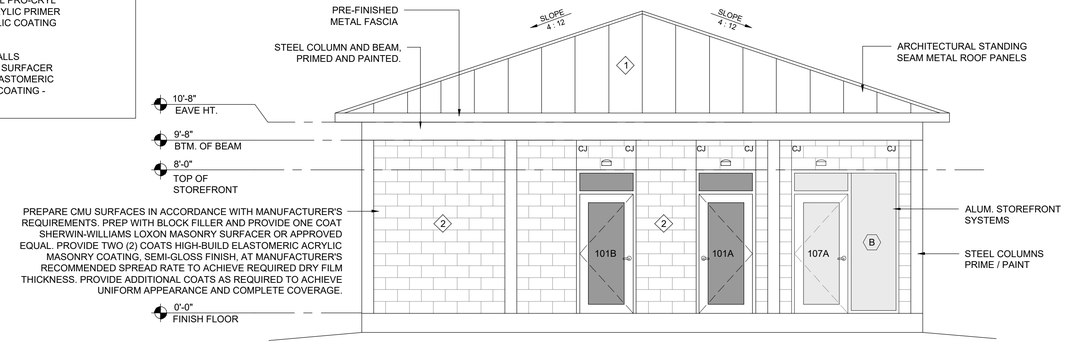
PAINT NOTE:

* CONTRACTOR TO PROVIDE A PAINT SCHEDULE PREPARED BY A QUALIFIED PROFESSIONAL COATINGS EXPERT

BASIS OF DESIGN:
EXTERIOR SYSTEMS
A. FERROUS METALS:
1. LOCATION: EXTERIOR HM DOORS, FRAMES, RAILINGS, MISC. STEEL
2. PRIMER: PRO INDUSTRIAL PRO-CRYL UNIVERSAL ACRYLIC PRIMER
3. 2 COATS: SW DTM ACRYLIC COATING SEMI-GLOSS
B. EXPOSED CMU:
1. LOCATION: EXTERIOR WALLS
2. FILLER / PRIMER: LOXON SURFACER
3. 2 COATS: HIGH-BUILD ELASTOMERIC DTM ACRYLIC COATING - SEMI-GLOSS



EXTERIOR ELEVATIONS - REAR — 1/4"=1'-0" (2)



EXTERIOR ELEVATIONS - FRONT — 1/4"=1'-0" (1)

MKE ARCHITECTS
MKE ARCHITECTS
9800 Airline Highway, Suite 217
Baton Rouge , Louisiana 70816
Office: 225-412-0048
www.mkearchitects.com
Contact: Kirk Edwards, AIA

Consultants Information:

Mechanical and Electrical:
GSE, INC.
1816 Pass Road
Gulfport, MS 39501
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Contact: Dylan Wade, PE

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GUARD SHACK.

Project Location:
39018 LA-3089
DONALDSONVILLE, LA 70346

Sheet Revisions:

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Sheet Name:
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DELEGATED DESIGN – PRE-ENGINEERED / PREFABRICATED METAL TRUSSES:

THE CONTRACTOR SHALL RETAIN A QUALIFIED PROFESSIONAL ENGINEER LICENSED IN THE PROJECT JURISDICTION TO DESIGN, ENGINEER, DETAIL, AND CERTIFY ALL PREFABRICATED AND/OR PRE-ENGINEERED METAL TRUSSES, CONNECTIONS, BRACING, ANCHORAGE, AND RELATED STRUCTURAL COMPONENTS REQUIRED FOR THE PROJECT.

DELEGATED DESIGN SHALL INCLUDE, BUT NOT BE LIMITED TO:

DESIGN OF ALL METAL TRUSSES, MEMBERS, CONNECTIONS, HANGERS, BEARING CONDITIONS, AND ACCESSORIES.
DESIGN OF ALL TEMPORARY AND PERMANENT BRACING REQUIRED FOR ERECTION AND FINAL IN-SERVICE CONDITIONS.
COORDINATION WITH STRUCTURAL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND OTHER BUILDING SYSTEMS.
DESIGN FOR ALL APPLICABLE DEAD, LIVE, ROOF, WIND, SEISMIC, COLLATERAL, EQUIPMENT, AND OTHER CODE-REQUIRED LOADS.
VERIFICATION OF DEFLECTION LIMITS, SERVICEABILITY REQUIREMENTS, AND STRUCTURAL PERFORMANCE.
DESIGN OF CONNECTIONS AND ANCHORAGE TO SUPPORTING STRUCTURE.
COMPLIANCE WITH ALL APPLICABLE BUILDING CODES, REFERENCED STANDARDS, MANUFACTURER REQUIREMENTS, AND PROJECT-SPECIFIC DESIGN CRITERIA.

SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED, SIGNED, AND SEALED BY THE DELEGATED DESIGN ENGINEER AND SUBMITTED FOR REVIEW PRIOR TO FABRICATION. ARCHITECT/ENGINEER REVIEW IS FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT ONLY AND SHALL NOT RELIEVE THE CONTRACTOR OR DELEGATED DESIGN ENGINEER OF RESPONSIBILITY FOR THE COMPLETENESS, ACCURACY, OR PERFORMANCE OF THE DESIGN.

DELEGATED DESIGN – COLD-FORMED METAL FRAMING :

THE CONTRACTOR SHALL RETAIN A QUALIFIED PROFESSIONAL ENGINEER LICENSED IN THE PROJECT JURISDICTION TO PROVIDE DELEGATED DESIGN SERVICES FOR ALL NON-LOAD-BEARING AND LOAD-BEARING COLD-FORMED METAL FRAMING SYSTEMS, INCLUDING BUT NOT LIMITED TO EXTERIOR WALL FRAMING, INTERIOR PARTITION FRAMING, SOFFITS, BULKHEADS, FURRED WALLS, PARAPETS, EQUIPMENT SUPPORT FRAMING, AND ALL ASSOCIATED BRACING, CONNECTIONS, AND ANCHORAGE.

DELEGATED DESIGN SHALL INCLUDE, BUT NOT BE LIMITED TO:

MEMBER SIZING, SPACING, AND GAUGE SELECTION.
DESIGN OF ALL BRACING, DEFLECTION TRACKS, CLIPS, CONNECTIONS, AND ANCHORAGE.
DESIGN FOR APPLICABLE WIND, SEISMIC, DEAD, LIVE, AND CLADDING LOADS.
COORDINATION WITH STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND ARCHITECTURAL REQUIREMENTS.
DESIGN OF OPENING FRAMING, HEADERS, JAMBS, SILLS, AND REINFORCEMENTS REQUIRED FOR DOORS, WINDOWS, LOUVERS, ACCESS PANELS, AND EQUIPMENT PENETRATIONS.
VERIFICATION OF DEFLECTION CRITERIA REQUIRED FOR FINISHES, CLADDING, GYPSUM BOARD, AND GLAZING SYSTEMS.
COMPLIANCE WITH THE CONTRACT DOCUMENTS, APPLICABLE BUILDING CODES, AISI STANDARDS, ASTM STANDARDS, AND MANUFACTURER REQUIREMENTS.

DELEGATED DESIGN CALCULATIONS AND SHOP DRAWINGS SHALL BE PREPARED, SIGNED, AND SEALED BY THE DELEGATED DESIGN ENGINEER AND SUBMITTED FOR REVIEW PRIOR TO FABRICATION OR INSTALLATION. REVIEW BY THE ARCHITECT OR ENGINEER OF RECORD IS FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT ONLY AND SHALL NOT RELIEVE THE CONTRACTOR OR DELEGATED DESIGN ENGINEER OF RESPONSIBILITY FOR THE COMPLETENESS, ACCURACY, OR PERFORMANCE OF THE DESIGN.

BASIS OF DESIGN – STANDING SEAM METAL ROOF SYSTEM:

THE BASIS OF DESIGN FOR THE STANDING SEAM METAL ROOF SYSTEM IS A 2-INCH HIGH MAXIMA STANDING SEAM ROOF PANEL OR APPROVED EQUAL.

ROOF PANEL SYSTEM SHALL PROVIDE THE FOLLOWING MINIMUM CHARACTERISTICS:

2-INCH-TALL MECHANICALLY SEAMED STANDING SEAM PROFILE.
FACTORY-FORMED GALVALUME OR GALVANIZED STEEL SUBSTRATE.
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CONCEALED CLIP FASTENING SYSTEM ALLOWING FOR THERMAL MOVEMENT.
HIGH-WIND UPLIFT RESISTANCE SUITABLE FOR PROJECT LOCATION AND CODE REQUIREMENTS.
WEATHER-TIGHT DESIGN WITH MANUFACTURER'S STANDARD ACCESSORIES, CLOSURES, FLASHINGS, AND TRIM.
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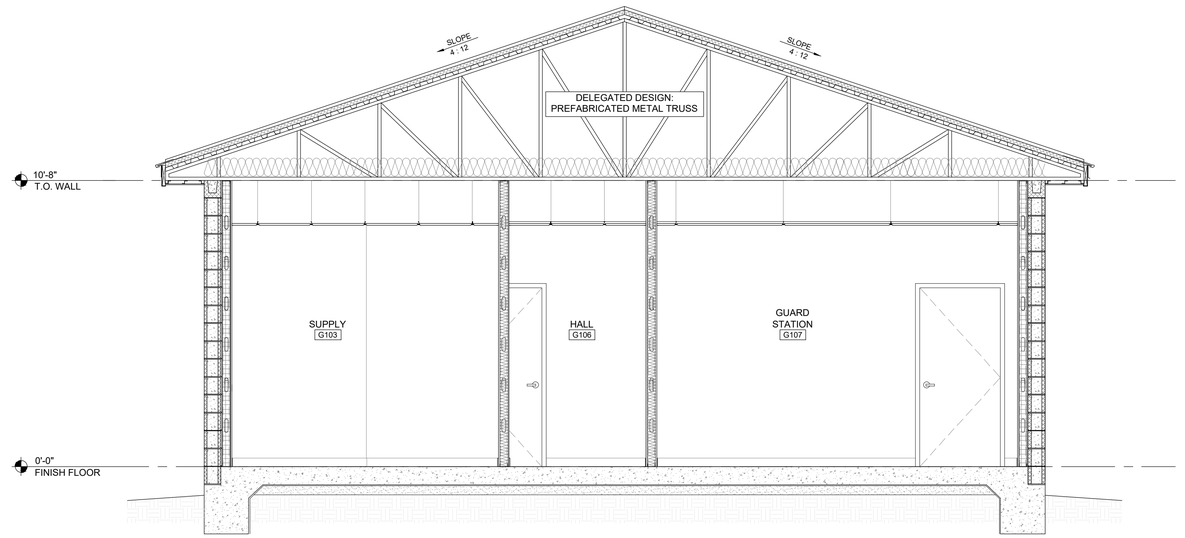
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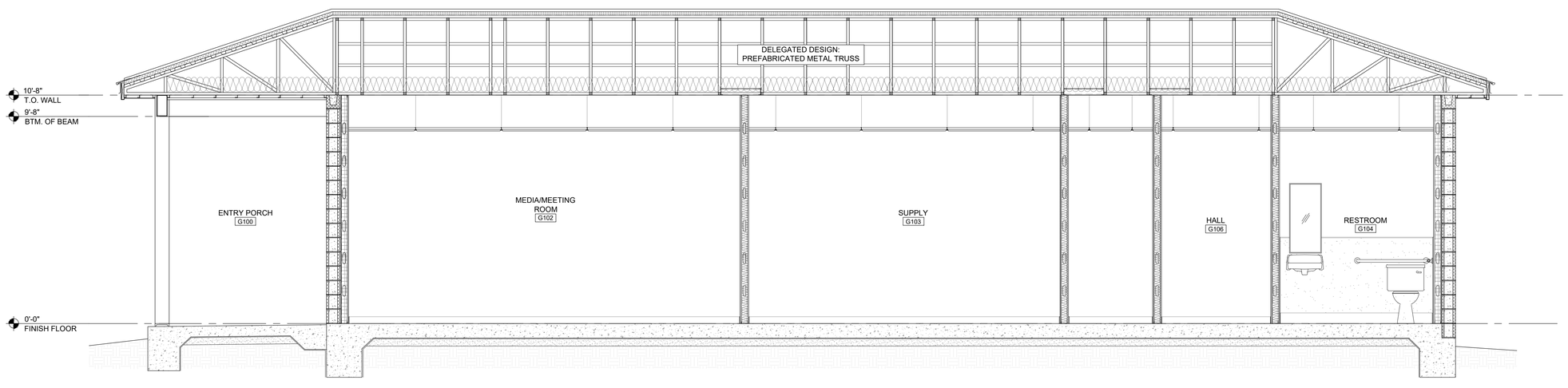
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* ATTIC VENTILATION SHALL BE PROVIDED AS PER SECTION 1203 OF 2021 IBC

*DRAFTSTOP ATTICS INTO AREAS OF LESS THAN 3000 SQ.FT.



BUILDING SECTIONS 3/8"=1'-0" (2)



BUILDING SECTIONS 3/8"=1'-0" (1)

MKE ARCHITECTS
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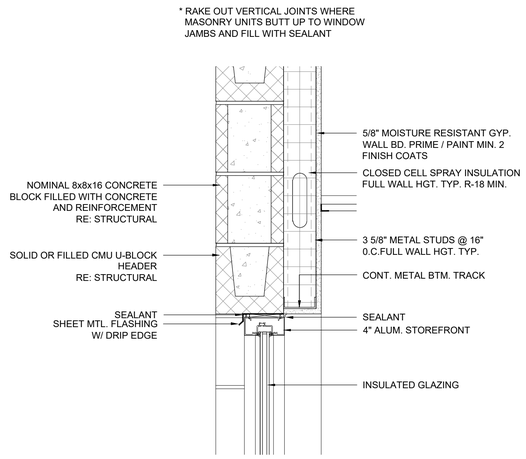
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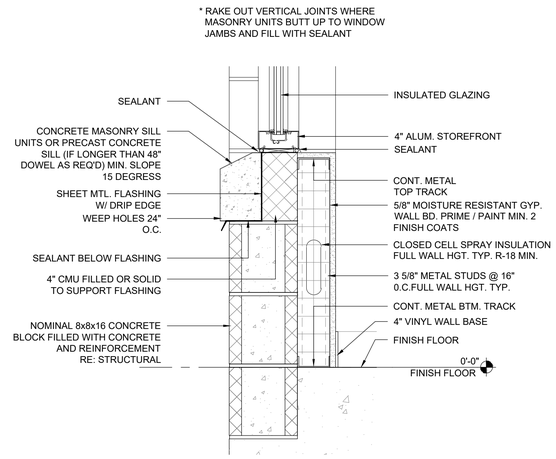
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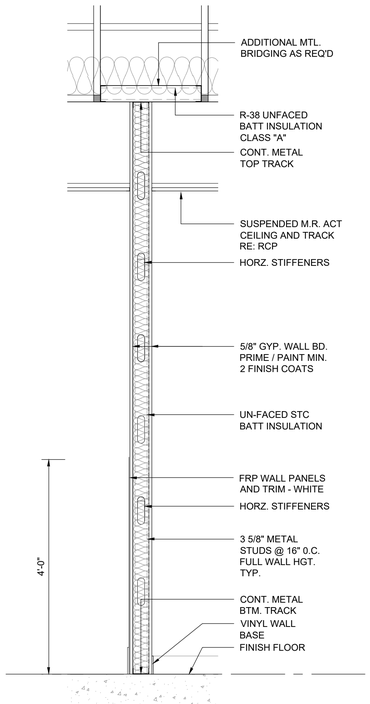
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HEAD DETAIL 1-1/2"=1'-0" (7)

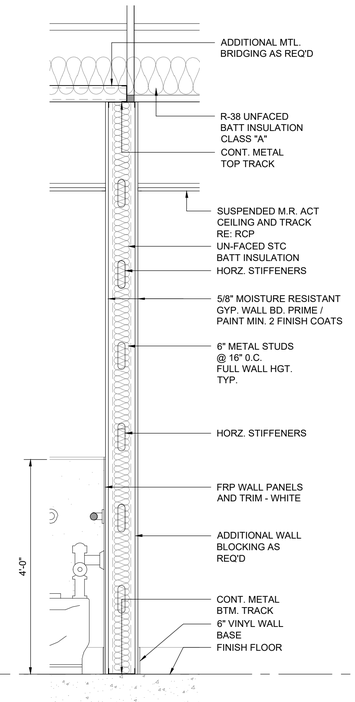


SILL DETAIL 1-1/2"=1'-0" (6)



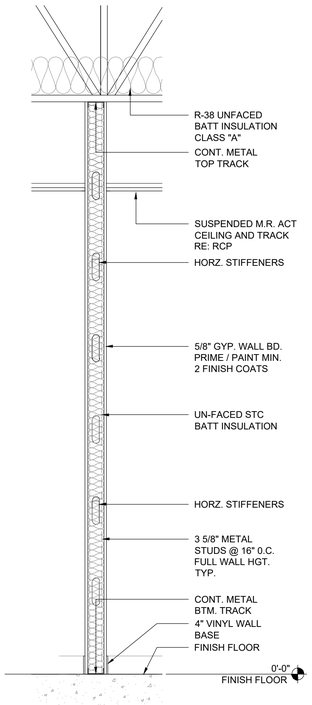
* FRP TO BE INSTALLED UP TO 4' ON INTERIOR JANITOR CLST. & RESTROOM WALLS

P-TYPE 3 3/4"=1'-0" (5)



* FRP TO BE INSTALLED UP TO 4' ON INTERIOR RESTROOM WALLS

P-TYPE 2 3/4"=1'-0" (4)



P-TYPE 1 3/4"=1'-0" (3)

DELEGATED DESIGN – COLD-FORMED METAL FRAMING :

THE CONTRACTOR SHALL RETAIN A QUALIFIED PROFESSIONAL ENGINEER LICENSED IN THE PROJECT JURISDICTION TO PROVIDE DELEGATED DESIGN SERVICES FOR ALL NON-LOAD-BEARING AND LOAD-BEARING COLD-FORMED METAL FRAMING SYSTEMS, INCLUDING BUT NOT LIMITED TO EXTERIOR WALL FRAMING, INTERIOR PARTITION FRAMING, SOFFITS, BULKHEADS, FURRED WALLS, PARAPETS, EQUIPMENT SUPPORT FRAMING, AND ALL ASSOCIATED BRACING, CONNECTIONS, AND ANCHORAGE.

DELEGATED DESIGN SHALL INCLUDE, BUT NOT BE LIMITED TO:

MEMBER SIZING, SPACING, AND GAUGE SELECTION.
DESIGN OF ALL BRACING, DEFLECTION TRACKS, CLIPS, CONNECTIONS, AND ANCHORAGE.
DESIGN FOR APPLICABLE WIND, SEISMIC, DEAD, LIVE, AND CLADDING LOADS.
COORDINATION WITH STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND ARCHITECTURAL REQUIREMENTS.
DESIGN OF OPENING FRAMING, HEADERS, JAMBS, SILLS, AND REINFORCEMENTS REQUIRED FOR DOORS, WINDOWS, LOUVERS, ACCESS PANELS, AND EQUIPMENT PENETRATIONS.
VERIFICATION OF DEFLECTION CRITERIA REQUIRED FOR FINISHES, CLADDING, GYPSUM BOARD, AND GLAZING SYSTEMS.
COMPLIANCE WITH THE CONTRACT DOCUMENTS, APPLICABLE BUILDING CODES, AISI STANDARDS, ASTM STANDARDS, AND MANUFACTURER REQUIREMENTS.

DELEGATED DESIGN CALCULATIONS AND SHOP DRAWINGS SHALL BE PREPARED, SIGNED, AND SEALED BY THE DELEGATED DESIGN ENGINEER AND SUBMITTED FOR REVIEW PRIOR TO FABRICATION OR INSTALLATION. REVIEW BY THE ARCHITECT OR ENGINEER OF RECORD IS FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT ONLY AND SHALL NOT RELIEVE THE CONTRACTOR OR DELEGATED DESIGN ENGINEER OF RESPONSIBILITY FOR THE COMPLETENESS, ACCURACY, OR PERFORMANCE OF THE DESIGN.

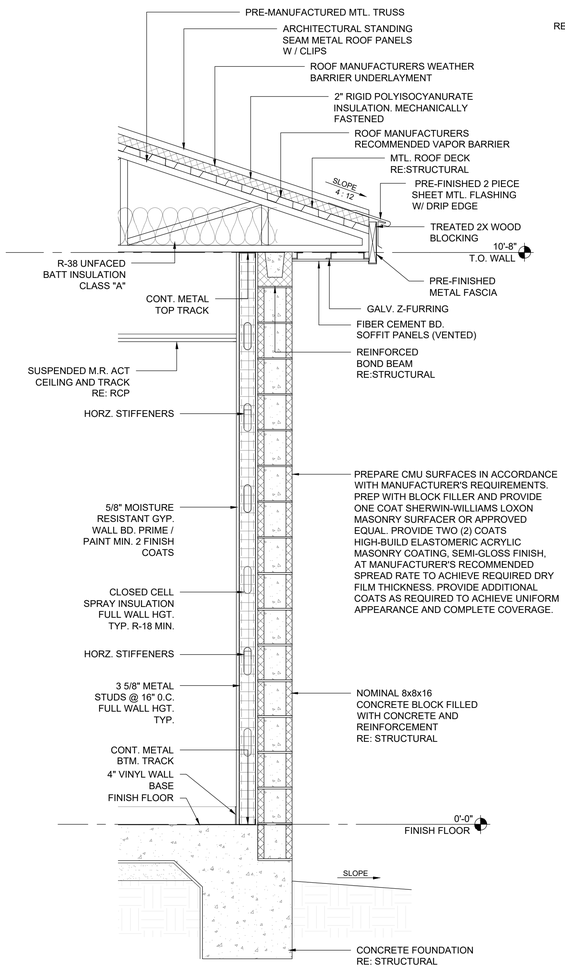
DELEGATED DESIGN – PRE-ENGINEERED / PREFABRICATED METAL TRUSSES:

THE CONTRACTOR SHALL RETAIN A QUALIFIED PROFESSIONAL ENGINEER LICENSED IN THE PROJECT JURISDICTION TO DESIGN, ENGINEER, DETAIL, AND CERTIFY ALL PREFABRICATED AND/OR PRE-ENGINEERED METAL TRUSSES, CONNECTIONS, BRACING, ANCHORAGE, AND RELATED STRUCTURAL COMPONENTS REQUIRED FOR THE PROJECT.

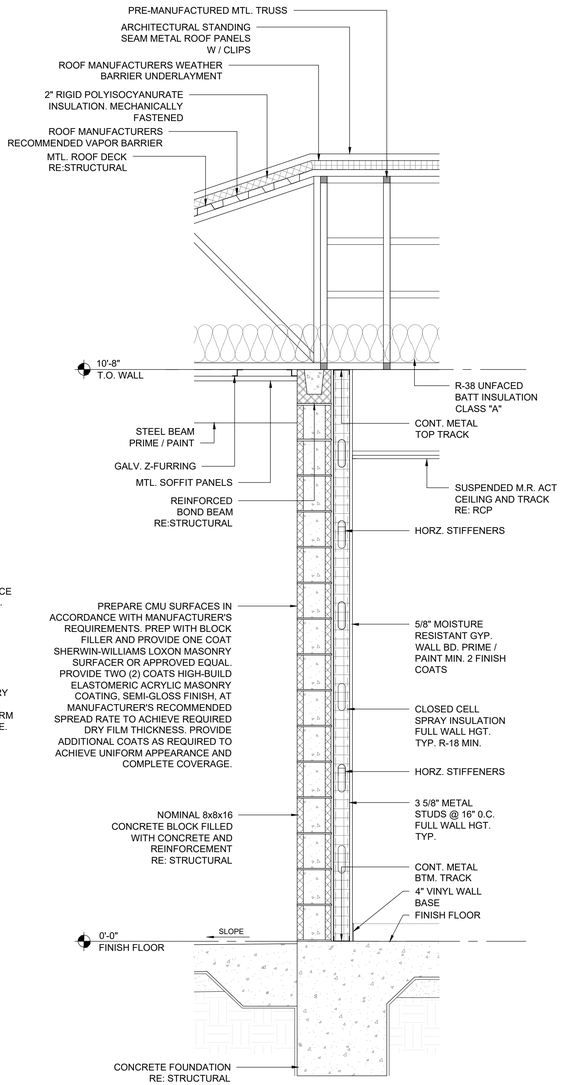
DELEGATED DESIGN SHALL INCLUDE, BUT NOT BE LIMITED TO:

DESIGN OF ALL METAL TRUSSES, MEMBERS, CONNECTIONS, HANGERS, BEARING CONDITIONS, AND ACCESSORIES.
DESIGN OF ALL TEMPORARY AND PERMANENT BRACING REQUIRED FOR ERECTION AND FINAL IN-SERVICE CONDITIONS.
COORDINATION WITH STRUCTURAL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND OTHER BUILDING SYSTEMS.
DESIGN FOR ALL APPLICABLE DEAD, LIVE, ROOF, WIND, SEISMIC, COLLATERAL, EQUIPMENT, AND OTHER CODE-REQUIRED LOADS.
VERIFICATION OF DEFLECTION LIMITS, SERVICEABILITY REQUIREMENTS, AND STRUCTURAL PERFORMANCE.
DESIGN OF CONNECTIONS AND ANCHORAGE TO SUPPORTING STRUCTURE.
COMPLIANCE WITH ALL APPLICABLE BUILDING CODES, REFERENCED STANDARDS, MANUFACTURER REQUIREMENTS, AND PROJECT-SPECIFIC DESIGN CRITERIA.

SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED, SIGNED, AND SEALED BY THE DELEGATED DESIGN ENGINEER AND SUBMITTED FOR REVIEW PRIOR TO FABRICATION. ARCHITECT/ENGINEER REVIEW IS FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT ONLY AND SHALL NOT RELIEVE THE CONTRACTOR OR DELEGATED DESIGN ENGINEER OF RESPONSIBILITY FOR THE COMPLETENESS, ACCURACY, OR PERFORMANCE OF THE DESIGN.



WALL SECTION 3/4"=1'-0" (2)



WALL SECTION 3/4"=1'-0" (1)

MKE ARCHITECTS
MKE ARCHITECTS
9800 Airline Highway, Suite 217
Baton Rouge , Louisiana 70816
Office: 225-412-0048
www.mkearchitects.com
Contact: Kirk Edwards, AIA

Consultants Information:

Mechanical and Electrical:
GSE, INC.
1816 Pass Road
Gulfport, MS 39501
(228)864-5050
Contact: Dylan Wade, PE

Structural:
GSE, INC.
1816 Pass Road
Gulfport, MS 39501
(228)864-5050
Contact: Ahmad Omar, PE

Project Title:
CF INDUSTRIES
BLUE SAPPHIRE
GUARD SHACK.

Project Location:
39018 LA-3089
DONALDSONVILLE, LA 70346

Sheet Revisions:

No.	Date	Description

Sheet Name:
WALL SECTIONS / P-TYPES

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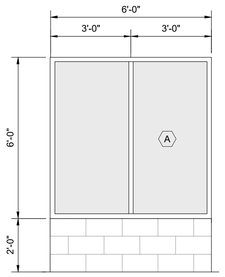
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JUNE 5, 2026

Document Phase:
CONSTRUCTION DOCUMENTS

Sheet Number:
A3.02

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DELEGATED DESIGN – DOOR HARDWARE:

THE CONTRACTOR SHALL RETAIN A QUALIFIED DOOR HARDWARE CONSULTANT AND/OR PROFESSIONAL DESIGNER EXPERIENCED IN COMMERCIAL DOOR HARDWARE SYSTEMS TO PROVIDE DELEGATED DESIGN SERVICES FOR ALL DOOR HARDWARE REQUIRED FOR THE PROJECT.

DELEGATED DESIGN SHALL INCLUDE, BUT NOT BE LIMITED TO:

PREPARATION OF A COMPLETE DOOR HARDWARE SCHEDULE FOR ALL OPENINGS.
SELECTION OF LOCKSETS, LATCHES, HINGES, CLOSERS, EXIT DEVICES, ELECTRIFIED HARDWARE, ACCESS CONTROL COMPONENTS, STOPS, HOLDERS, WEATHERSTRIPPING, THRESHOLDS, AND ALL ASSOCIATED ACCESSORIES.
VERIFICATION OF COMPLIANCE WITH ALL APPLICABLE BUILDING CODE, FIRE CODE, ACCESSIBILITY, EGRESS, LIFE SAFETY, SECURITY, AND FIRE-RATED OPENING REQUIREMENTS.
COORDINATION OF HARDWARE REQUIREMENTS WITH DOOR TYPES, FRAME TYPES, FIRE RATINGS, SECURITY SYSTEMS, ACCESS CONTROL SYSTEMS, AND ELECTRICAL REQUIREMENTS.
VERIFICATION OF REQUIRED PANIC HARDWARE, FIRE EXIT HARDWARE, SELF-CLOSING DEVICES, POSITIVE LATCHING REQUIREMENTS, AND ACCESSIBILITY FEATURES.
COORDINATION OF ELECTRIFIED HARDWARE, POWER SUPPLIES, CARD READERS, DOOR POSITION SWITCHES, REQUEST-TO-EXIT DEVICES, AND RELATED SECURITY COMPONENTS WITH THE ELECTRICAL AND LOW-VOLTAGE SYSTEMS.
PREPARATION OF COMPLETE HARDWARE CUT SHEETS, SHOP DRAWINGS, WIRING DIAGRAMS, AND OPENING-BASED HARDWARE SETS.
COMPLIANCE WITH MANUFACTURER REQUIREMENTS, APPLICABLE INDUSTRY STANDARDS, AND THE CONTRACT DOCUMENTS.

THE DELEGATED DESIGNER SHALL VERIFY THAT ALL HARDWARE SELECTIONS ARE COMPATIBLE WITH THE DOOR, FRAME, AND WALL CONSTRUCTION PROVIDED AND SHALL IDENTIFY ANY REQUIRED REINFORCEMENTS, BLOCKING, POWER REQUIREMENTS, OR SPECIAL CONDITIONS NECESSARY FOR A COMPLETE AND FUNCTIONAL INSTALLATION.

COMPLETE DOOR HARDWARE SCHEDULES, SHOP DRAWINGS, AND SUPPORTING DOCUMENTATION SHALL BE SUBMITTED FOR REVIEW PRIOR TO PROCUREMENT OR INSTALLATION. REVIEW BY THE ARCHITECT OR ENGINEER OF RECORD IS FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT ONLY AND SHALL NOT RELIEVE THE CONTRACTOR OR DELEGATED DESIGNER OF RESPONSIBILITY FOR THE COMPLETENESS, ACCURACY, CODE COMPLIANCE, OR PERFORMANCE OF THE DOOR HARDWARE SYSTEM.

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL HARDWARE NECESSARY TO ACHIEVE A COMPLETE, CODE-COMPLIANT, SAFE, SECURE, AND FULLY OPERABLE OPENING, WHETHER OR NOT SPECIFICALLY IDENTIFIED IN THE CONTRACT DOCUMENTS

DELEGATED DESIGN – STOREFRONT, GLAZED OPENINGS, AND ALUMINUM FRAMED GLAZING SYSTEMS:

THE CONTRACTOR SHALL RETAIN A QUALIFIED PROFESSIONAL ENGINEER LICENSED IN THE PROJECT JURISDICTION TO PROVIDE DELEGATED DESIGN SERVICES FOR ALL EXTERIOR AND INTERIOR STOREFRONT SYSTEMS, CURTAIN WALLS, GLAZED PARTITIONS, BORROWED-LITES, SIDELITES, TRANSACTION WINDOWS, WINDOW WALLS, ALUMINUM-FRAMED GLAZING SYSTEMS, ENTRANCE SYSTEMS, AND ASSOCIATED COMPONENTS INDICATED IN THE CONTRACT DOCUMENTS.

DELEGATED DESIGN SHALL INCLUDE, BUT NOT BE LIMITED TO:

DESIGN OF ALL FRAMING MEMBERS, MULLIONS, TRANSOMS, REINFORCEMENTS, CONNECTIONS, ANCHORAGE, AND SUPPORT SYSTEMS.
DESIGN OF ALL GLAZING SYSTEMS, INCLUDING GLASS TYPE, THICKNESS, SAFETY GLAZING REQUIREMENTS, INSULATING GLASS UNITS, AND EDGE CONDITIONS.
DESIGN TO RESIST APPLICABLE DEAD LOADS, LIVE LOADS, WIND LOADS, SEISMIC LOADS, IMPACT LOADS, AND BUILDING MOVEMENT.
VERIFICATION OF COMPLIANCE WITH APPLICABLE DEFLECTION LIMITS, SERVICEABILITY REQUIREMENTS, AND PERFORMANCE CRITERIA.
DESIGN OF ENTRANCE DOORS, FRAMING REINFORCEMENTS, HARDWARE REINFORCEMENTS, AND ASSOCIATED COMPONENTS REQUIRED FOR A COMPLETE SYSTEM.
COORDINATION OF STOREFRONT AND GLAZING SYSTEMS WITH STRUCTURAL FRAMING, EXTERIOR WALL SYSTEMS, INTERIOR PARTITIONS, CEILING SYSTEMS, WATERPROOFING, FLASHING, SEALANTS, ACCESS CONTROL SYSTEMS, AND ADJACENT CONSTRUCTION.
DESIGN OF ALL MOVEMENT JOINTS, EXPANSION JOINTS, SLIP CONNECTIONS, AND CONNECTION DETAILS REQUIRED TO ACCOMMODATE STRUCTURAL DEFLECTION, BUILDING MOVEMENT, THERMAL EXPANSION, AND DIFFERENTIAL MOVEMENT OF ADJACENT MATERIALS.
DESIGN OF ALL REQUIRED STRUCTURAL SUPPORTS, BLOCKING, BACKING, AND REINFORCEMENTS NECESSARY FOR A COMPLETE AND FUNCTIONAL INSTALLATION.
COORDINATION OF ALL GLAZING, FRAMING, ANCHORAGE, AND CONNECTION DETAILS WITH FIELD CONDITIONS PRIOR TO FABRICATION.
COMPLIANCE WITH ALL APPLICABLE BUILDING CODES, ACCESSIBILITY REQUIREMENTS, ASTM STANDARDS, AAMA STANDARDS, GANA RECOMMENDATIONS, AND MANUFACTURER REQUIREMENTS.

THE DELEGATED DESIGNER SHALL VERIFY COMPATIBILITY OF THE GLAZING SYSTEMS WITH ALL ADJACENT CONSTRUCTION AND SHALL IDENTIFY ANY REQUIRED REINFORCEMENTS, STRUCTURAL SUPPORTS, BLOCKING, OR SPECIAL CONDITIONS REQUIRED FOR A COMPLETE INSTALLATION.

DELEGATED DESIGN CALCULATIONS AND SHOP DRAWINGS SHALL BE PREPARED, SIGNED, AND SEALED BY THE DELEGATED DESIGN ENGINEER AND SUBMITTED FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS SHALL IDENTIFY ALL MEMBER SIZES, GLAZING TYPES, CONNECTIONS, ANCHORAGE, REINFORCEMENTS, MOVEMENT JOINTS, AND PERFORMANCE CRITERIA.

REVIEW BY THE ARCHITECT OR ENGINEER OF RECORD IS FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT ONLY AND SHALL NOT RELIEVE THE CONTRACTOR OR DELEGATED DESIGN ENGINEER OF RESPONSIBILITY FOR THE COMPLETENESS, ACCURACY, CODE COMPLIANCE, STRUCTURAL ADEQUACY, WEATHER PERFORMANCE, OR OVERALL PERFORMANCE OF THE GLAZING SYSTEMS.

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE, CODE-COMPLIANT, WEATHERTIGHT, STRUCTURALLY ADEQUATE, AND FULLY FUNCTIONAL SYSTEM WHETHER OR NOT EVERY COMPONENT IS SPECIFICALLY IDENTIFIED IN THE CONTRACT DOCUMENTS.

FINAL STOREFRONT CONFIGURATION, MULLION LOCATIONS, JOINT LOCATIONS, ANCHORAGE, AND CONNECTION DETAILS SHALL BE COORDINATED WITH FIELD CONDITIONS AND ADJACENT CONSTRUCTION BY THE CONTRACTOR AND DELEGATED DESIGN ENGINEER PRIOR TO FABRICATION."

EXTERIOR ALUM. STOREFRONT SPECIFICATIONS:

MANUFACTURER: KAWNEER OR EQUAL
PRODUCT: KAWNEER TRIFAB VG 451T

CONSTRUCTION:
- 2" SIGHTLINE
- 4 1/2" DEPTH
- CENTER GLAZING SYSTEM
- SUPPLIER TO VERIFY ALL WIND LOAD AND DEFLECTION CRITERIA AND PROVIDE ALL ACCESSORIES AND REINFORCEMENT AS REQ'D BY APPLICABLE CODES AND FOR A COMPLETE INSTALLATION
- PROVIDE STEEL INSERTS WHERE REQUIRED TO ACHIEVE COMPLIANCE WITH LOCAL CODES
- SUPPLIER TO PROVIDE AND INSTALL ANY REQ'D BRAKE METAL PANELS AS REQ'D TO COVER ANY STRUCTURE, FRAMING, OR ADJACENT / INTERVENING CONSTRUCTION
- PROVIDE CONT. EXTRUDED THERMALY BROKEN HEAD RECEPTOR AT EACH FRAMING UNIT
- WHERE ALUMINUM WILL CONTACT DISSIMILAR METALS, PROTECT AGAINST GALVANIC REACTIONS BY PAINTING CONTACT SURFACES WITH PRIMER OR BY APPLYING SEALANT OR TAPE PER MANUF. SPEC'S
- FINISH TO BE ARCHITECTURAL CLASS OR EQUAL
- COLOR: TO BE DETERMINED BY ARCHITECT AT LATER DATE
- SUPPLIER TO VERIFY SYSTEM MEETS ALL LOCAL CODES REQ'D

*WINDOW / GLAZING PERFORMANCE NOTES:
(MINIMUM REQUIREMENTS)

-ALUM. FRAME WITH THERMAL BREAK
-MAX-U-FACTOR = 0.25
-MAX SHGC = 0.25
-SOLARBAN 70 OPTIGRAY + CLEAR OR EQUAL

INTERIOR ALUM. STOREFRONT SPECIFICATIONS:

MANUFACTURER: KAWNEER OR EQUAL
PRODUCT: KAWNEER TRIFAB VG 450

CONSTRUCTION:
- 2" SIGHTLINE
- 2 1/4" DEPTH
- FRONT GLAZING SYSTEM
- PROVIDE STEEL INSERTS WHERE REQUIRED TO ACHIEVE COMPLIANCE WITH LOCAL CODES
- SUPPLIER TO PROVIDE AND INSTALL ANY REQ'D BRAKE METAL PANELS AS REQ'D TO COVER ANY STRUCTURE, FRAMING, OR ADJACENT / INTERVENING CONSTRUCTION
- WHERE ALUMINUM WILL CONTACT DISSIMILAR METALS, PROTECT AGAINST GALVANIC REACTIONS BY PAINTING CONTACT SURFACES WITH PRIMER OR BY APPLYING SEALANT OR TAPE PER MANUF. SPEC'S
- FINISH TO BE ARCHITECTURAL CLASS OR EQUAL
- COLOR: TO BE DETERMINED BY ARCHITECT AT LATER DATE
- SUPPLIER TO VERIFY SYSTEM MEETS ALL LOCAL CODES REQ'D

DOOR SCHEDULE:

NO.	WIDTH	HEIGHT	THICK	DESCRIPTION
101A	3'-0"	6'-8"	STN.	ALUM. STOREFRONT DOOR W/ AUTO CLOSER / ADA THRESHOLD
101B	3'-0"	6'-8"	STN.	ALUM. STOREFRONT DOOR W/ AUTO CLOSER / ADA THRESHOLD
102A	3'-0"	6'-8"	1 3/4"	HM DOOR / PAINT
103A	3'-0"	6'-8"	1 3/4"	HM DOOR / PAINT
104A	3'-0"	6'-8"	1 3/4"	HM DOOR / PAINT / AUTO CLOSER
105A	3'-0"	6'-8"	1 3/4"	HM DOOR / PAINT / AUTO CLOSER
106A	3'-0"	6'-8"	1 3/4"	HM DOOR / PAINT
106B	3'-0"	7'-0"	1 3/4"	HM DOOR / PAINT
107A	3'-0"	6'-8"	STN.	ALUM. STOREFRONT DOOR W/ AUTO CLOSER / ADA THRESHOLD
107B	3'-0"	6'-8"	1 3/4"	HM DOOR / PAINT
108A	3'-0"	6'-8"	1 3/4"	HM DOOR / PAINT
108B	3'-0"	7'-0"	1 3/4"	INSULATED METAL DOOR W/ AUTO CLOSER / PAINT

EXTERIOR WINDOW SCHEDULE:

MARK	WIDTH	HEIGHT	DESCRIPTION
A	6'-0"	6'-0"	ALUM. INSULATED W/ THERMAL BREAK / FIXED GLASS / LOW-E
B	2'-8"	8'-0"	ALUM. INSULATED W/ THERMAL BREAK / FIXED GLASS / LOW-E
C	3'-4"	1'-4"	ALUM. INSULATED W/ THERMAL BREAK / FIXED GLASS / LOW-E

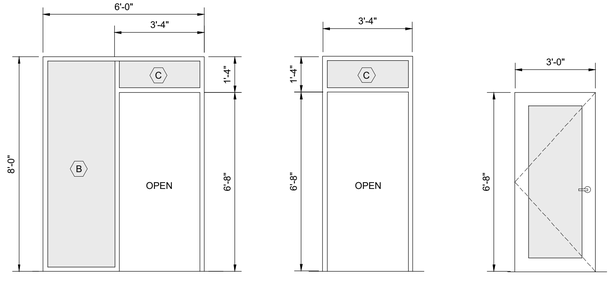
INTERIOR WINDOW SCHEDULE:

MARK	WIDTH	HEIGHT	DESCRIPTION
D	4'-6"	4'-0"	ALUM. / INTERIOR GLAZING / CLEAR

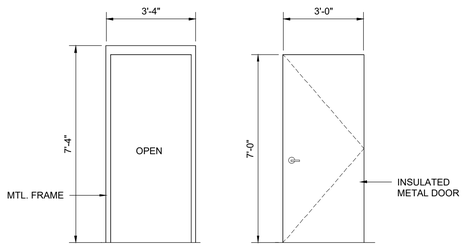
* SUBMIT PHYSICAL SAMPLE TO OWNER FOR APPROVAL
* COMPLY WITH ALL CURRENT ADA STANDARDS REQUIRED BY FEDERAL AND LOCAL CODES

HARDWARE NOTE:

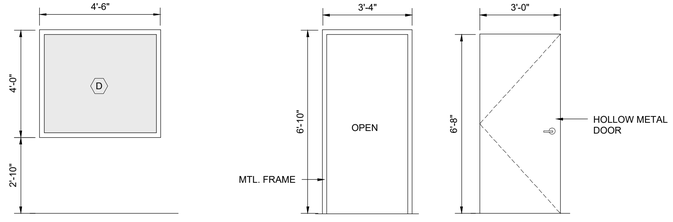
DOOR HARDWARE SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE. LEVER-OPERATED, PUSH-TYPE AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. LOCKS ON DOORS IN MEANS OF EGRESS SHALL NOT REQUIRE THE USE OF A KEY, SPECIAL DEVICE OR SPECIAL KNOWLEDGE TO OPEN IN DIRECTION OF EGRESS.



EXTERIOR STOREFRONT SYSTEMS — 3/8"=1'-0" — 5

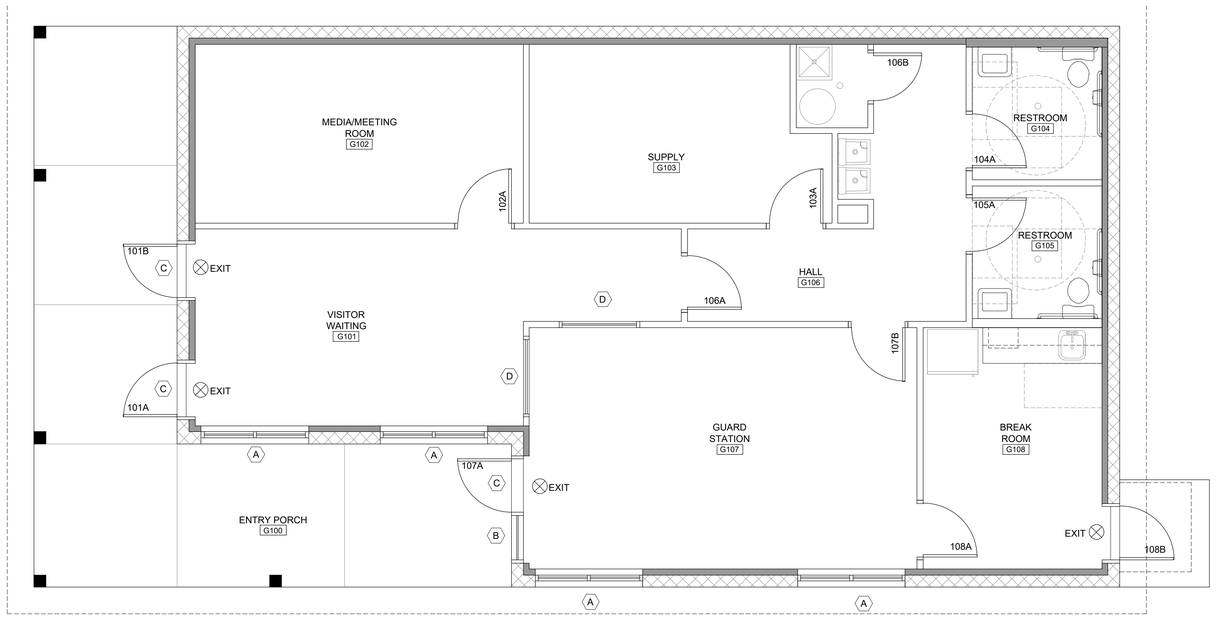


EXTERIOR DOORS / FRAMES — 3/8"=1'-0" — 4



INTERIOR STOREFRONT WINDOWS — 3/8"=1'-0" — 3

INTERIOR DOORS / FRAMES — 3/8"=1'-0" — 2



REFERENCE PLAN — 1/4"=1'-0" — 1

MKE ARCHITECTS
MKE ARCHITECTS
9800 Airline Highway, Suite 217
Baton Rouge , Louisiana 70816
Office: 225-412-0048
www.mkearchitects.com
Contact: Kirk Edwards, AIA

Consultants Information:

Mechanical and Electrical:
GSE, INC.
1816 Pass Road
Gulfport, MS 39501
(228)864-5050
Contact: Dylan Wade, PE

Structural:
GSE, INC.
1816 Pass Road
Gulfport, MS 39501
(228)864-5050
Contact: Ahmad Omar, PE

Project Title:
CF INDUSTRIES
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Project Location:
39018 LA-3089
DONALDSONVILLE, LA 70346

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No.	Date	Description

Sheet Name:
DOOR / WINDOW SCHEDULES

Seal

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Document Phase:
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Sheet Number:
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