

ADDENDUM NO. 03

Date: 9 September 2024

To: ALL BIDDERS OF RECORD

From: Frankfurt-Short-Bruza Associates, P.C.

5801 N. Broadway Ext., Suite 500

Oklahoma City, OK 73118

Subject: KELL169014: Construct Corrosion Control Facility, TX/ANG, JBSA Lackland, San Antonio, TX

FSB Project No.: 20190320

NOTE: This Addendum forms a part of the Contract Documents and modifies the Original Documents dated 2 August 2024. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

ATTACHMENTS

Items in this addendum take precedence over the original bid documents. Items not specifically revised remain in effect. This addendum consists of (3) pages and the following attachments:

Specifications:

01 14 00 – WORK RESTRICTIONS
08 34 16.10 – HORIZONTAL ROLLING STEEL DOORS
09 06 00 – SCHEDULE OF FINISHES

Drawings:

C 000 CHEET INDEX

G-002 – SHEET INDEX
G-201 – SPECIAL INSPECTIONS
G-202 – SPECIAL INSPECTIONS
G-203 – SPECIAL INSPECTIONS
A101 – FLOOR PLAN
A103 – ROOF PLAN
A104 – HANGAR BAY FLOOR PAINT STRIPING PLAN
A201 – BUILDING ELEVATIONS
A500 – DETAILS
A501 – DETAILS
S-001 – GENERAL NOTES
SB102 – SLAB PLAN
SB506 – FOUNDATION DETAILS
SB507 – FOUNDATION DETAILS

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PN KELL169014

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SECTION 01 14 00

WORK RESTRICTIONS 11/22, CHG 2: 05/24

PART 1 GENERAL

1.1 SUBMITTALS

Government approval is required for submittals with a "G" classification. Submittals not having a "G" classification are for Contractor Quality Control approval. Submittals with an "S" are for inclusion in the Sustainability eNotebook, in conformance with Section 01 33 29 SUSTAINABILITY REPORTING. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

List of Contact Personnel; G

1.2 SPECIAL SCHEDULING REQUIREMENTS

A. Permission to interrupt any Activity roads, railroads, or utility service must be requested in writing a minimum of 15 calendar days prior to the desired date of interruption.

1.3 CONTRACTOR ACCESS AND USE OF PREMISES

1.3.1 Activity Regulations

Ensure that Contractor personnel employed on the Activity become familiar with and obey Activity regulations including safety, fire, traffic and security regulations. Keep within the limits of the work and avenues of ingress and egress. Wear appropriate personal protective equipment (PPE) in designated areas. Do not enter any restricted areas unless required to do so and until cleared for such entry. Ensure all Contractor equipment, include delivery vehicles, are clearly identified with their company name.

1.3.1.1 Subcontractors and Personnel Contacts

Provide a list of contact personnel of the Contractor and subcontractors including addresses and telephone numbers for use in the event of an emergency. As changes occur and additional information becomes available, correct and change the information contained in previous lists.

1.3.1.2 No Smoking Policy

Smoking is prohibited within and outside of all buildings on installation, except in designated smoking areas. This applies to existing buildings, buildings under construction and buildings under renovation. Discarding tobacco materials other than into designated tobacco receptacles is considered littering and is subject to fines. The Contracting Officer will identify designated smoking areas.

1.3.2 Working Hours

Regular working hours will consist of a period, between 6:30 a.m. and 5:00 p.m., Tuesday through Friday, and 7:00 a.m. to 11:00 p.m. on Saturday,

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excluding Government holidays. Regular working hours must consist of a period between 7:30 a.m. and 4:00 p.m., Tuesday through Friday.

1.3.3 Work Outside Regular Hours

Work outside regular working hours requires Contracting Officer approval. Make application 15 calendar days prior to such work to allow arrangements to be made by the Government for inspecting the work in progress, giving the specific dates, hours, location, type of work to be performed, contract number and project title. Based on the justification provided, the Contracting Officer may approve work outside regular hours. During periods of darkness, the different parts of the work must be lighted in a manner approved by the Contracting Officer. Make utility cutovers after normal working hours or on Saturdays, Sundays, and Government holidays unless directed otherwise.

1.3.4 Occupied and Existing Buildings

The existing buildings and their contents must be kept secure at all times. Provide temporary closures as required to maintain security as directed by the Contracting Officer.

The Government will remove and relocate other Government property in the areas of the buildings scheduled to receive work.

1.3.5 Utility Cutovers and Interruptions

- 1. Make utility cutovers and interruptions after normal working hours or on Saturdays, Sundays, and Government holidays. Conform to procedures required in paragraph WORK OUTSIDE REGULAR HOURS.
- 2. Ensure that new utility lines are complete, except for the connection, before interrupting existing service.
- 3. Interruption to water, sanitary sewer, storm sewer, telephone service, electric service, air conditioning, heating, fire alarm, compressed air, and natural gas are considered utility cutovers pursuant to the paragraph WORK OUTSIDE REGULAR HOURS.

1.4 SECURITY REQUIREMENTS

Contract Clause FAR 52.204-2 Security Requirements and Alternate II.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

Not Used

-- End of Section --

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SECTION 08 34 16.10

HORIZONTAL ROLLING STEEL DOORS 11/21

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)

AISC 325 (2017) Steel Construction Manual

AISC 360 (2016) Specification for Structural Steel

Buildings

AMERICAN IRON AND STEEL INSTITUTE (AISI)

AISI SG03-3 (2002; Suppl 2001-2004; R 2008)

Cold-Formed Steel Design Manual Set

AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING (ASNT)

ANSI/ASNT CP-189 (2020) ASNT Standard for Qualification and

Certification of Nondestructive Testing

Personnel

AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE)

ASCE 7-16 (2017; Errata 2018; Supp 1 2018) Minimum

Design Loads and Associated Criteria for

Buildings and Other Structures

AMERICAN WELDING SOCIETY (AWS)

AWS D1.1/D1.1M (2020; Errata 1 2021) Structural Welding

Code - Steel

AWS D1.8/D1.8M (2016) Structural Welding Code—Seismic

Supplement

ASTM INTERNATIONAL (ASTM)

ASTM A36/A36M (2019) Standard Specification for Carbon

Structural Steel

ASTM A123/A123M (2017) Standard Specification for Zinc

(Hot-Dip Galvanized) Coatings on Iron and

Steel Products

ASTM A325 (2014) Standard Specification for

Structural Bolts, Steel, Heat Treated, 120/105 ksi Minimum Tensile Strength

ASTM A449 (2014; R 2020) Standard Specification for Hex Cap Screws, Bolts, and Studs, Steel, Heat Treated, 120/105/90 ksi Minimum

Tensile Strength, General Use

ASTM A653/A653M (2023) Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or

Zinc-Iron Alloy-Coated (Galvannealed) by

the Hot-Dip Process

ASTM A1008/A1008M (2023) Standard Specification for Steel,

Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Solution Hardened, and Bake Hardenable

ASTM A1011/A1011M (2023) Standard Specification for Steel

Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength

ASTM C920 (2018) Standard Specification for

Elastomeric Joint Sealants

ASTM E84 (2023) Standard Test Method for Surface

Burning Characteristics of Building

Materials

NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)

NEMA ICS 1 (2022) Standard for Industrial Control and

Systems: General Requirements

NEMA ICS 2 (2000; R 2020) Industrial Control and

Systems Controllers, Contactors, and

Overload Relays Rated 600 V

NEMA ICS 6 (1993; R 2016) Industrial Control and

Systems: Enclosures

NEMA MG 1 (2021) Motors and Generators

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 70 (2023; ERTA 7 2023; TIA 23-15) National

Electrical Code

NFPA 220 (2024) Standard on Types of Building

Construction

NFPA 409 (2022) Standard on Aircraft Hangars

U.S. DEPARTMENT OF DEFENSE (DOD)

MIL-R-5001 (1992, Rev B) Rubber Cellular Sheet,

Molded And Hand-Built Shapes; Latex Foam

MIL-STD-889 (2021; Rev D) Galvanic Compatibility of

	Electrically Conductive Materials
UFC 1-200-01	(2022; with Change 3, 2024) DoD Building Code
UFC 3-101-01	(2020; with Change 4, 2024) Architecture
UFC 3-301-01	(2023; with Change 1, 2023) Structural Engineering
UFC 4-010-06	(2023) Cybersecurity of Facility-Related Control Systems

UNDERWRITERS LABORATORIES (UL)

UL 489	(2016; Rev 2019) UL Standard for Safety Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures
UL 506	(2017; Reprint Jan 2022) UL Standard for Safety Specialty Transformers

1.2 SUBMITTALS

Government approval is required for submittals with a "G" or "S" classification. Submittals not having a "G" or "S" classification are for Contractor Quality Control approval. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Manufacturer's Qualifications; G

Installer's Qualifications; G

SD-02 Shop Drawings sealed by the Door Manufacturer's Registered Professional Engineer

Horizontal Rolling Steel Doors; G

 $\mbox{SD-05}$ Design Data sealed by the Door Manufacturer's Registered Professional Engineer

Horizontal Rolling Steel Doors; G

Door Compliance Matrix; G

SD-10 Operation and Maintenance Data

Horizontal Rolling Steel Doors, Data Package 2; G

1.3 DESIGN REQUIREMENTS

1.3.1 Door Design and Components

The Horizontal Rolling Steel Door system described in the construction documents are representative of a commercially available door. Design and provide the door to fit within the space allocated and in accordance with the criteria specified herein. Design doors to operate properly without

binding, interference, or damage to weather stripping or the adjacent structure. Door must be of limited combustible construction in accordance with NFPA 220 and NFPA 409.

Submit Calculations sealed by the door manufacturer's registered professional engineer for review.

Submit drawings showing details of construction, installation, and operation; size, shapes, and thickness of materials; joints and connections; reinforcing; hardware; mechanical devices; electrical devices; and design and detail data for work of other trades affected by these door system(s).

Submit a Door Compliance Matrix which references each specification requirement and the corresponding document and page number where compliance may be verified by the reviewer.

1.3.1.1 Steel Door Components

Design all supporting, steel bracing and framing steel members in accordance with the specified loads and the requirements of AISC 325 and AISC 360. Design all cold formed steel in accordance with AISI SG03-3. Weld steel in accordance with the AWS D1.1/D1.1M Standards.

1.3.2 Loads

Design the door for the loads in accordance with UFC 1-200-01, UFC 3-301-01 and all other applicable criteria.

1.3.2.1 Wind Loads

In the closed position, design the entire door system to withstand the component and cladding wind pressures as indicated by the Engineer of Record for a Partially Enclosed building, based upon the indicated design wind velocity, geometry and other factors. Design all elements of the door's components and cladding to withstand both the highest positive and negative pressures based upon the actual tributary area from the wind, as indicated.

In addition, design the entire door system to be both fully open and fully operational for wind velocities up to 77 mph. Calculate the applicable component and cladding wind pressures, including importance factor, and utilize the controlling wind pressures or utilize a positive and negative wind pressure of 15 psf on the surface of the door, whichever is greater.

Submit complete Calculations sealed by the door manufacturer's registered professional engineer for review.

1.3.3 Deflections

For any door member, the deflection due to design wind load shall not exceed the member's length divided by 120.

Design Doors as a system to withstand a minimum of 150 percent of both the upward and downward deflections of the door header structure, or as recommended by the door manufacturer. The total anticipated service level maximum vertical deflections which may be experienced during the life of the door and building are 3 inches upwards and 6 inches downwards.

For cantilevered truss structures, the camber to accommodate anticipated deadload is 6 inches downward.

Submit design drawings and structural including detail drawings to accommodate deflections described.

1.3.4 Door Structure and Connections

Design connections at top and bottom guide rails to withstand both the positive and negative design wind pressures and seismic loads and blast loads as required by the construction documents. Utilize the governing design loads in accordance with ASCE 7-16 load combinations.

1.3.5 Primary and Secondary Door Members and Connections

Design primary door members and their connections with hot-rolled steel members only. Design complete vertical and lateral load paths, including interconnection system load path from pickup bracket or cable system through the door bracing, to both the top and bottom door leaf members.

Pick Up Brackets for group doors: Connection of the bracket to the door will not use the torsion resistance of the frame to resist loading.

1.3.6 Wind Girt Members and Connections

Cold-formed members are not permitted for use in primary or secondary (main) framing of the door leaf and bracing. In addition, face skin finish materials cannot be utilized as part of the lateral force resisting system, including diaphragm action.

Door manufacturer may utilize cold-formed steel infill members as wind girts to support the cladding. If utilized, cold-formed members may be not be thinner than 14 GA in material thickness.

1.3.7 Cybersecurity

Design all control systems (including systems separate from a utility monitoring and control system) in accordance with UFC 4-010-06 and as required by Section 25 05 11.01 CYBERSECURITY FOR LOW IMPACT HVAC CONTROL SYSTEMS, 25 05 11.02 CYBERSECURITY FOR LOW IMPACT LIGHTING CONTROL SYSTEMS AND 25 05 11.04 CYBERSECURITY FOR MODERATE IMPACT FIRE PROTECTION CONTROL SYSTEMS. Implement cybersecurity requirements to mitigate vulnerabilities to all facility-related control systems.

1.4 QUALITY ASSURANCE

1.4.1 Manufacturer's Qualifications

Use a horizontal rolling steel door product from a manufacturer who is regularly engaged in the design, fabrication, erection, and service of horizontal rolling steel doors of type, complexity, and size required for this project. The manufacturer must have at least 5 years of similar horizontal rolling steel door design experience. Similar doors must have comparable function and design including size, configuration, type of use, retractable or moving elements, safety features, controls, and other key engineering elements as the door being specified. It is acceptable to show that a series of similar doors collectively meet all comparable elements to the door being specified, although not necessarily individually. Manufacturer must submit written evidence on similar past

door designs and installations listing the name, location, contact information of owners, installation dates, overall sizes, features, and other relevant information for experience and qualifications evaluation. Only manufacturers who can submit this evidence of actual installations where the products have proven practical, durable, and require a minimum of maintenance, will be qualified under this specification.

1.4.2 Installer's Qualifications

A manufacturer's representative, skilled and experienced in the erection of horizontal rolling steel steel doors of the type specified herein, is required to supervise installation of the door system(s) in accordance with approved shop drawings. For each installer submit written evidence of similar past door installations listing the name, locations, contact information of owners, installation dates, overall sizes, features, and other relevant information for experience and qualifications evaluation.

1.4.3 Warranty

Provide a three-year warranty for all mechanical and electrical components against defects in material and workmanship beginning on the date of Project Acceptance.

1.5 DELIVERY, STORAGE, AND HANDLING

Deliver materials which are not shop installed on the doors in original rolls, packages, containers, boxes, or crates bearing the manufacturer's name, brand, and model number. Store materials and equipment in dry locations with adequate ventilation, free from dust and water, and so as to permit access for inspection and handling. Handle doors carefully to prevent damage. Remove damaged items that cannot be restored to like-new condition and provide new items.

PART 2 PRODUCTS

2.1 HORIZONTAL ROLLING STEEL DOORS

2.1.1 Structural Steel

AISC 360 and ASTM A36/A36M.

2.1.2 Formed Steel

AISI SG03-3.

2.1.3 Galvanized Steel

Hot dipped galvanized frames in accordance with ASTM A123/A123M.

2.1.4 Sheet Steel

ASTM A1011/A1011M hot-rolled steel sheet, commercial quality, ASTM A1008/A1008M cold-rolled steel sheet, commercial quality.

2.1.5 Galvanized Sheet Steel

 ${\tt ASTM}$ ${\tt A653/A653M},$ coating designation G 90 galvanized steel sheet, commercial quality.

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2.1.6 Exterior Covering

Insulated Metal Wall Panels as specified in Section 07 42 63 FABRICATED WALL PANEL ASSEMBLIES.

2.1.7 Interior Covering

Preformed metal liner panel is specified in Section 07 42 63 FABRICATED WALL PANEL ASSEMBLIES with factory finish equal to the manufacturer's standard PVDF fluoropolymer. Provide interior panel full height of door.

2.1.8 Exterior Envelope

2.1.8.1 Insulation

Provide insulation that:

- a. Contains no asbestos;
- b. Is permanently secured in place behind the exterior covering; and
- c. Has a flame spread rating of 75 or less and a smoke-developed rating of 100 or less when tested in accordance with ASTM E84.

Do not use cellular plastics as exposed finish material. Design the doors to have an air-to-air U value of not more than and a sound transmission class (STC) of not less than. To Match U-Value of Building Envelope.

Batt or blanket insulation as specified in Section 07 21 16 MINERAL FIBER BLANKET INSULATION.

Submit design drawings and U value calculations.

2.1.8.1.1 Air Barrier

The door manufacturer is responsible for the delegated requirement to design, provide and inspect the door cladding portion of the Air Barrier in accordance with UFC 3-101-01.

- a. When the door system is fully open, all door system components will be outside of the required clearance area for the door opening.
- b. When the door system is fully closed the door system will seal and form a portion of the building's exterior envelope.

The door manufacturer is responsible for the delegated requirement to design, provide and inspect the door flashings and weather stripping for their ability to seal to form a portion of the Air Barrier in accordance with UFC 3-101-01.

2.1.9 Hardware

Provide door hardware to accommodate all design loads specified. Provide top guide rollers, bottom wheels, interleaf bumpers, tractor pulls, track cleaners, and top bumpers as required for a complete and operational installation.

2.1.9.1 Wheel Assemblies

Provide steel plate bottom wheels having a minimum tread diameter as required for the actual wheel loading. Construct wheel assemblies to permit removal of the wheel without removing the door leaf from its position on the rail.

- a. Treads: Machine wheel treads concentric with bearing seats. The clear distance between flanges not exceeding the width of the rail by more than 1/8 inch at the tread nor more than 1/4 inch at the edge of the flange. Machine internal bearing seats accurately for a press fit. Heat treat wheels 18 inches or greater in diameter to obtain a rim hardness of 320 Brinnel.
- b. Wheel bearings: Provide tapered roller or spherical bearings, either internal or cartridge type, arranged so that both horizontal and vertical loads are transferred to the rail only through the bearing. Provide bearings tightly sealed and equipped with high-pressure grease fittings.

2.1.9.2 Top Guide Rollers

Provide top guide rollers of suitable size and capacity for satisfactory performance under the design load conditions. In addition, provide the top guide roller type matching the top guide system to be used.

2.1.9.2.1 Vertical Floating Head Top Guide Rollers

Provide top-roller assemblies to:

- a. Move up and down within the specified positive and negative deflection of the roof in the vicinity of the door opening;
- b. Allow easy removal through the top of the guide system; and
- c. Include both horizontal and vertical rollers built into a frame which is connected in such a manner as to transmit the specified wind loads from the door to the building structure and to prevent disengagement of the door from the top guide; and
- d. Provide vertical floating head top guide rollers that use floating type head.

2.1.10 Personnel Doors

Personnel doors are not required within these Hangar doors.

The door manufacturer is responsible for providing structural frames and electrical interlock for personnel doors.

2.1.10.1 Doors and Frames

Specified in Section 08 11 13 STEEL DOORS AND FRAMES.

2.1.10.2 Hardware for Personnel Doors

Specified in Section 08 71 00 DOOR HARDWARE.

2.1.10.3 Electrical Interlock

Provide each personnel door with an electrical interlock switch to prevent motor operation of the leaf or group in which it is located when the personnel door is open. Provide an identified indicator light at each door leaf control station indicating when the personnel door is in the open position. The intent of this requirement is to prevent any other door leaf from bypassing the door leaf with an open personnel door.

2.1.11 Weather Stripping

Provide adjustable and readily replaceable material. Provide on vertical edges, sills, and heads to afford a weathertight installation. Weather stripping is bulb type.

Provide minimum double edge weather stripping between door leaf panels.

2.1.11.1 Rubber

Provide flexible weather stripping on vertical edges and sills. Provide clearance between metal parts on vertical edges of leaves and between leaves and jambs which are to be weather-stripped as indicated, or a minimum of 2 inches whichever is greater. Use either flap-type, two-ply, EPDM or double flap, single or dual opposed solid neoprene material.

For flap-type weather stripping, provide a two-ply cloth-inserted EPDM material with a minimum thickness of 1/8 inch and retained continuously for its full length and secured with rust-resistant fasteners spaced no more than 12 inches on center.

For double flap weather stripping, provide extruded neoprene with heavy center section attached at 12 inches on center.

2.1.11.2 Metallic

Form head weather stripping material between each leaf and the top guide system of not thinner than 18 gage galvanized sheet steel or flap-type, cloth-inserted neoprene, as indicated.

2.1.11.3 Head Flashing

Provide with the top guide system specified in Section 05 12 00 STRUCTURAL STEEL. Provide cloth-inserted neoprene weathering fastened to top of door leaves to engage the head flashing when doors are closed. Head flashing type is dictated by top guide system and top guide head type.

2.1.11.3.1 Hanging Head Flashing

Provide head flashing secured to top guide structure so as not to obstruct path of door movement.

2.1.11.3.2 Floating Head Flashing

Provide head flashing secured to top guide heads and travel with the guide heads as the guide system deflects under live load. Provide adequate clearance such that when the floating flashing moves, it does not crash into the door structure.

2.1.11.3.3 Fixed Head Flashing

Provide head flashing secured to the door structure and extending vertically upward until it creates an overlapping seal with the top guide structure. Select dimensions such that the top guide roller will contact the guide structure before the head flashing so that it does not drag during operation.

2.1.12 Fasteners

Fasteners are selected by the hangar door manufacturer in order to develop the full strength of the connection required. Bolted structural connections require ASTM A325 or ASTM A449 bolts. Bolt finish is zinc plated.

2.1.13 Sealant

Single-component or multicomponent elastomeric type conforming to ASTM C920, Type S or M, Grade NS, Class 12.5, Use NT. Provide a sealant that has been tested on the types of substrate to which it will be applied.

2.1.14 Primer

Zinc-Rich Epoxy Primer in accordance with Section 09 96 00 HIGH-PERFORMANCE COATINGS.

2.1.15 Variable Frequency Drives

Provide a variable frequency drive (VFD) in NEMA ICS 1, Type 4 enclosures equipped with access door-controlled, UL 489 Molded Case Circuit Breaker (MCCB) with a through-the-door disconnect switch. The control system includes but is not limited to a VFD equipped with overload and undervoltage protection, relays and timing devices as required, control circuit transformers, and a numbered terminal strip. Provide a control circuit transformer capable of reducing the voltage in the control circuits to 120 volts or less, and conforms to UL 506.

2.1.16 Electrical

Provide conduit, wire, flexible cables, boxes, devices, and accessories, and install trolley duct, under Section 26 20 00 INTERIOR DISTRIBUTION SYSTEM. If permanent electrical power is not available when door installation is complete, provide temporary power in accordance with distribution system requirements in Section 26 20 00 INTERIOR DISTRIBUTION SYSTEM, for testing and adjusting the doors.

Submit the door manufacturer's complete schematic wiring diagram, field wiring diagram, and a complete physical location drawing showing the location of controls with the runs of conduit, size of conduit, number and size of wires in each conduit, location of junction boxes, and full details of control mountings.

2.1.16.1 Electrical Classification

This building and these doors are required to adhere to a Class 1 Division 2 electrical classification to a height of 18 inches feet as shown in the Contract Drawings.

2.2 FABRICATION

2.2.1 Doors

2.2.1.1 Frames and Framing

Provide welded or bolted construction in door leaves. Design joints to develop 100 percent of the strength of the framing members. Provide continuous vertical members throughout the height of the door. When required, prepare splices to facilitate field assembly in accordance with standard practice. Provide frames and framing members true to dimensions and square in all directions; no bowed leaves, warped, or out of line in the vertical or horizontal plane of the door opening by more than 1/8 inch in 20 feet. Provide diagonal bracing so that the completed leaf assembly will be braced to withstand shipping, assembly, and operational loads. Grind smooth any exposed welds and welds which interfere with the installation of various parts such as cover sheets. Prepare, prime, and coat structural framing and miscellaneous steel as specified in the paragraph FINISHES.

2.2.1.2 Exterior Covering and Interior Liner Sheets

Fasten flat sheets to the frame either by edge welding, plug welding, or threaded fasteners at no greater than 12 inches on center. The maximum area where flat sheets are attached as either exterior covering or interior liner sheets cannot exceed 25 square feet. Make edges of exterior sheets weathertight with sealant.

2.2.2 Locking Devices

Do not provide locking devices on motor-operated doors.

2.2.3 Tractor Pulls

Provide tractor pulls so that leaves can be towed by a tractor or similar equipment in the event of power failure. Design the tractor pull for drive force to tow door or 5000 pounds whichever is greater. Provide a minimum 3/8 inch thickness steel plate.

2.2.4 Track Cleaners

Provide a device to clear debris from the rail head and wheel flange grooves as the leaf is moved.

2.2.5 Insulation

Secure insulation to doors with clips, studs, or adhesive. Protect insulation within 8 feet of floor with steel liner sheets secured to framing 12 inches on center at edges with hot dipped galvanized, self-tapping screws.

2.2.6 Interconnection of Door Leaves

2.2.6.1 Cable System for Group Doors

The minimum size for the cable which interconnects the leaves is 3/8 inch; provide cables containing either improved plow steel with lubricated hemp centers or wire rope cores. Sheaves over which the cables operate have a diameter of at least 18 cable diameters and either sealed ball- or

roller-type bearings or graphite bronze bearings of a sufficient capacity for the operating loads. Grease fittings are provided for the sheave bearings unless permanently lubricated bearings are used. Operate cable sheave systems such that the lead door travels at 60 feet per minute.

2.3 OPERATION

2.3.1 Door Types

Provide unidirectional as indicated door type. Provide Floating Group Anchored Groupdoors. Floating Group doors are interconnected by cable sheaves. Anchored Group doors are interconnected by cable sheaves

2.3.1.1 Anchored Group Doors

Provide a traction-drive operating unit located in the lead leaf of the group and driving one or more wheels of the lead leaf. If connected by cable sheaves, design the leaves in each group to start to moving at the same time and arrive at their fully open or fully closed positions simultaneously. Provide necessary cables, fittings, sheaves, housings, guards, anchors, and miscellaneous hardware. Provide doors that require operating personnel to walk with the leaf as it moves. See operator requirements for cable sheave doors.

2.3.1.1.1 Push Buttons for Anchored Group Doors

Each group is controlled by a two-button push button station marked "OPEN" and "CLOSE" mounted near the inside leading edge of the lead leaf.

2.3.1.1.2 Lever Arm Type Limit Switches

Provide for anchored group doors to stop the travel of each group in the fully open and fully closed positions. Provide limit switches with:

- a. Positive acting, snap action, lever arm type with actuating cams designed with sufficient overtravel to permit the group to come to a complete stop without over traveling the limit switches.
- b. Mounted on the leaves, and the actuating cams mounted either on the top guides or on adjacent door leaves.

2.3.1.1.3 Safety Edges

Provide fail-safe safety edges on the leading edge of the drive leaf of anchored group doors.

2.3.1.1.4 Warning Device

Provide a clearly audible signal and clearly visible LED flashing light on each group of leaves.

2.3.2 Operating Units

Design each operating unit to move its lead leaf at a speed of approximately 60 feet per minute at zero wind load conditions. Design the operating units to consist of either a separate motor and gear reducer or a gearhead motor, high-speed shaft brake, and necessary roller chains and sprockets. Provide the systems with overload protection for the drive units and a means for emergency tractor towing operation.

- a. Provide NEMA MG 1, high-starting torque, reversible type motors with sufficient horsepower and torque output to operate the leaves in either direction from any position under zero wind load conditions at not more than 75 percent of their rated capacity. Motors shall operate on current voltage of the characteristics indicated at not more that 3600 rpm. Provide drip-proof type motor enclosures or NEMA totally-enclosed, fan-cooled (TEFC) type. Design motors using a minimum service factor of 1.2.
- b. Provide gear reduction units that allow a reversal of effort through the gears without damage to the units.
- c. Provide operating mechanisms covered on the interior of the leaf by a hinged 16 gage flat steel cover.

2.3.3 Braking Systems

Design braking systems to ensure stoppage of the leaves under normal, dry rail conditions within the safety edge overtravel limit. Provide either a magnetic, spring-set, solenoid-released brake or hydraulic type braking systems. Provide a hand release to release the brake when it becomes necessary to move the leaf with an outside force. Provide an automatic reset type hand release so that the brake will be operable during subsequent electrical operation of the door.

2.3.4 Controls

Provide doors controlled by constant pressure push buttons mounted on the door leaves. Removing pressure from the button shall stop the movement of the leaves. Provide control equipment conforming to NEMA ICS 1 and NEMA ICS 2. Provide mushroom head type interior push buttons, mounted in heavy-duty, oil-tight enclosures conforming to NEMA ICS 6, Type 4, except that enclosure for the VFD with disconnect switch requires Type 12 for interior application . Provide watertight enclosures for exterior push buttons conforming to NEMA ICS 6, Type 4.

2.3.5 Limit Switches

Provide limit switches to prevent overtravel and bumping. Safety edges are not to be used as limit switches.

Submit in accordance with Section 01 78 23 OPERATION AND MAINTENANCE DATA. Include wiring and control diagrams.

2.3.6 Safety Edges

Provide fail-safe safety edges on door leaves from one inch above the floor to the top of the door leaf. For leaves 12 inches thick (including siding) or less, provide a single run of safety edge the full width of door. For leaves over 12 inches thick (including siding,) provide a double run of safety edge spaced to provide the maximum degree of safety in stopping the leaves. For leaves over 12 inches thick (including siding) provide a double run of safety edges on the outer edge of each side of door leaf covering no less than 80 percent of leaf.

a. Design: Provide safety edges to provide a minimum of 3-1/2 inches of overtravel after actuation until solid resistance is met and door motion comes to a complete stop. If door requires more than 3-1/2

inches to come to a complete stop, provide additional overtravel built into safety edge the distance required for door motion to come to a complete stop. Use pneumatic or electric safety edges.

- b. Specs: Use sensing edges of reinforced polyvinyl chloride cover or other Government-approved material with chemical resistance to diesel and JP-4 fuel, hydraulic fluids, SAE-30 oil and salt water. Use cover that provides hermetic seal for weather and moisture resistant protection of internal foam and contact elements. Internal foam may be polyurethane and/or latex foam in accordance with military specification MIL-R-5001, medium density. Use natural gum rubber hose, plugged on one end or other Government -approved materials and design to perform the switching function when the sensing edge encounters an obstruction along any portion of its active length.
- c. Operation: Verify that actuation of the safety edge on leading edge of a group of leaves stops movement of the group. Actuation of a safety edge locks out the motor control in the direction of travel until reset, but shall permit the door to be reversed away from the obstruction which tripped the safety edge. Design safety edges to reset by moving doors away from the obstruction. Design the lower portion of the safety edges to a height of approximately 5 feet to be independently removable for convenience in servicing or repair. The remainder of the edge may be in one piece up to a maximum of 20 feet.

d. Door Edge Protection

- (1) Bumper(s): Protect each door leaf edge provided with a safety edge with a spring type bumper(s). Design bumper to absorb 150 percent of the door drive force when door is pushed in an emergency. For continuous safety edges, extend bumpers to the sides. For sectional safety edges, the bumper can interrupt the safety edge for a distance not greater than 12 inches.
- (2) Tow Bar(s): Provide rigid tow bar for each door leaf edge provided with a safety edge. Design rigid tow bar assembly for 150 percent of the door drive force when door is pushed or pulled in an emergency. Provide swivel connection at door end and hook pintle hitch at opposite end.
- e. Keyed bypass: Provide a keyed bypass to the door controls to render the safety edges in a temporary "repair" mode, if necessary. The door drive shall be restored from its "fail safe" mode by activation of the keyed bypass.

2.3.6.1 Electrical Safety Edges

Connect the safety edge in series with the necessary relays and resistors to make the system complete. The service shall be not more than 24 volts and the circuit shall be normally energized so that the malfunction of any of the component parts will make the door inoperative. Wire sensing edges to provide for control reliable 4-wire operation of door so that any power loss to the sensing edges is experienced, then the door becomes inoperable until power is restored and a reset operation is initiated. Install sensing edges to operate through a normally energized relay so that when the sensing edge is compressed the relay contacts open. Install relay contacts to also open if any component in the sensing edge control circuit is broken so as to break continuity. Use 24 volts electrical service to the control circuit. Ensure service to the sensing edge does not exceed a

nominal 24 volts. Install a large red indicator light and/or a loud siren, to be simultaneously activated with the actuation of any sensing edge, to indicate the presence of an obstruction.

2.3.6.2 Pneumatic Safety Edges

Pneumatic safety edges operate by means of displaced air actuating air switches. Provide a minimum of one air switch for each 20 feet of vertical edge. Provide a pneumatic sensing hose utilizing a natural gum rubber with a 3/4 inch inside diameter. Provide electrical service to the air switch no more than 120V. Locate all air switches, associated wire, and conduit above 18 inches minimum above the floor.

2.3.7 Warning Device

Provide warning device that complies to the following:

- a. Operate when the push button is actuated for movement of the door in either direction;
- b. Sound 5 seconds before the door moves, and while the door is moving; and
- c. Be distinctly different than the fire alarm and be a minimum of 100 dB within 30 feet.

2.3.8 Emergency Operation

Provide doors constructed and equipped so that they can be operated-manually or by tractors from the ground level in case of power failure. Design the manual operation of doors to avoid damage to safety edges.

2.3.9 Electrical Work

It is the door manufacturer's responsibility to provide the proper electrical equipment and controls built in accordance with the latest NEMA ICS 1, NEMA ICS 2, and NEMA ICS 6 standards. Provide equipment, control circuits, and safety edge circuits that conform to NFPA 70. Where located 18 inches or less above the floor, meet the requirements to be explosion-proof as defined in NFPA 70, Article 513. Provide mannual or automatic control devices necessary for motor operation of the doors, including push button stations, limit switches, variable frequency drive with UL 489 MCCB motor circuit protection, control circuit transformers, relays, timing devices, warning devices, and trolley ducts with collectors or trolleys.

2.3.9.1 Electrical Cables

Provide festoon flexible cables with support system or cable reels with Type SO cable with strain relief connections and support system in accordance with the door manufacturer's approved drawings and wiring diagrams.

2.3.9.2 Door Pocket Safety Device

Provide illuminated push/pull emergency stop button for bi-parting and unidirectional doors at the pockets where the doors stack together.

2.4 FINISHES

2.4.1 Ferrous Metal

Clean, prepare, and coat all exposed and non-exposed ferrous metal surfaces as part of the Section 09 96 00 HIGH-PERFORMANCE COATINGS work, including all requirements, submittals, certifications, testing, and inspections required by Section 09 96 00 HIGH-PERFORMANCE COATINGS. Do not coat finished bearing surfaces. Alternate coating systems or products will not be considered. Prepare surface and apply coatings in the shop, following all temperature, humidity, and testing requirements listed in the Section 09 96 00 HIGH-PERFORMANCE COATINGS. After installation of the door, prep and touch up surfaces damaged during assembly and installation of the door. Prep and coat unfinished ferrous metal accessories such as bolts and brackets.

2.4.2 Factory-Finished Panels

Provide galvanized G90 per ASTM A653/A653M on all factory-finished ferrous metal panels to be exposed to the interior or exterior.

2.5 SIGNAGE

Provide a placard sign immediately adjacent to all control panels explaining how to operate the door and indicating the below notices. The Notice posts the service level wind speed which corresponds to the ultimate wind speed used in design of the open/operational door in paragraph WIND LOADS.

a. Notice:

(1) Horizontal Rolling Steel Doors must be closed and not operated when wind speeds above 60 mph are expected.

PART 3 EXECUTION

3.1 ERECTION

Provide all work associated with these door systems under the direct supervision and control of the fabricator for safety, control of product liability, and Engineer of Record responsibilities. Coordinate the erection of the doors with the work of other trades. Coordinate the design, fabrication and erection of the door systems and adjust for actual camber, fabrication, and erection tolerances of the surrounding framing. Verify the door system as installed within the erected superstructure accommodates the required upward and downward deflections of the top guide system including required factor of safety. Ensure that all steel support, bracing and framing members are furnished and accurately installed. Coordinate electrical work, including locations of all panels, equipment, motors and other components for required clearances, access and routing of power.

3.1.1 Assembly

Assemble and install the doors and accessories in accordance with the manufacturer's recommendations and installation manual. Provide additional supports as necessary for attachment of guides, brackets, doors, and operation mechanisms. After erection is complete and before touch-up field painting is applied, thoroughly clean all abraded surfaces,

field welds, and field bolts; coat in accordance with the paragraph FINISHES.

3.1.2 Cleaning

Clean both the interior and exterior of doors after the completion of erection.

3.1.3 Control Panel Installation

Locate all door control panel indoors, adjacent to the door opening, and with an unobstructed line of sight for the entire door opening. Provide all conduit entries into the bottom of the control panel. Mount control panels and provide three phase power to each control panel.

3.2 PROTECTIVE COATINGS

3.2.1 Cleaning

After fabrication, clean all metal surfaces thoroughly of all mill scale, rust, oil, grease and other foreign substances. Apply rust-preventive primer to all steel parts immediately after cleaning.

3.2.2 Shop Painting

After cleaning, coat with primer all steel surfaces other than machine-finished parts. Keep paint off finished bearing surfaces. Before assembly, prime surfaces that will be inaccessible after assembly. Handle painted materials with care to avoid scraping and breaking the protective film. Ferrous metal surfaces that will be exposed after fabrication will be shop coated and touch-up painted in the field in accordance with the paragraph FINISHES.

3.2.3 Metal Protection

Provide in accordance with Chapter 4 of UFC 1-200-01 when door system is in a corrosion prone location or where door system components use dissimilar metals. If dissimilar metals are used, also provide in accordance with MIL-STD-889. Provide added corrosion protection to the design such as, but not limited to, the following. Where aluminum will contact dissimilar metals, protect against galvanic action by painting contact surfaces with primer or by applying sealant or tape recommended by manufacturer for this purpose. Where aluminum will contact masonry or concrete, protect against corrosion by painting contact surfaces with bituminous coating.

3.3 WELDS

3.3.1 Visual Inspection

Furnish the services of AWS-certified welding inspectors for fabrication and erection inspection and testing and verification inspections in accordance with AWS D1.1/D1.1M. Perform visual inspections on 100 percent of all welds with a Certified Welding Inspector. Document this inspection in the weld inspection report.

Inspect proper preparation, size, gaging location, and acceptability of all welds; identification marking; operation and current characteristics of welding sets in use.

3.3.2 Nondestructive Testing

Perform nondestructive testing in accordance with AWS D1.1/D1.1M and AWS D1.8/D1.8M. Perform ultrasonic testing in accordance with Table 6.2 of AWS D1.1/D1.1M. Test 50 percent of all welds, with sampling representative of all weld types and locations for the entire door system and for the duration of the fabrication schedule. All personnel performing NDT are required to be certified in accordance with ANSI/ASNT CP-189 in the method of testing being performed. Submit certificates showing compliance with ANSI/ASNT CP-189 for all NDT technicians. If more than 10 percent of welds made by a welder contain defects identified by testing, then all groove welds made by that welder are required to be tested by ultrasonic testing, and all fillet welds made by that welder are required to be inspected by magnetic particle testing (MT) or dye penetrant testing (PT). When groove welds made by an individual welder are required to be tested, magnetic particle or dye penetrant testing may be used only in areas inaccessible to ultrasonic testing. Retest all repaired areas. Submit weld inspection report.

3.4 ELECTRICAL WORK

NFPA 70. Provide all conduit, wiring, and mounting of controls in accordance with Section 26 20 00 INTERIOR DISTRIBUTION SYSTEM.

Door manufacturer to coordinate with the qualified, licensed electrical contractor who will provide and install all 208 3-phase supply power to all components (such as Main, auxiliary, controllers, panels, motors, etc.) which require this low voltage supply power. The qualified, licensed electrical contractor will provide and install all conduit for the control level power under the review and approval of the door manufacturer. Either the qualified, licensed electrical contractor or a factory authorized technician may provide and install all wiring for control level power under the review and approval of the door manufacturer in accordance with the approved construction submittals.

3.5 ACCEPTANCE TESTING PROCEDURE AND REPORT

Submit an Acceptance Testing Procedure for approval, which includes coordination with Section 01 91 00.15 BUILDING COMMISSIONING for such items as door position switches which interact with HVAC controls. After Government approval, perform the testing and submit a report of the results. Provide acceptance testing for the entire door system, including every component, performed by the door manufacturer and suppliers. The following subparagraphs are included in the acceptance testing.

3.5.1 General

Upon completion of installation, including work by other trades, lubricate, adjust, and test doors to verify operation on accordance with manufacturer's product data. Final adjustments will be made by the manufacturer's authorized representative. Adjust and re-test the doors until the entire installation is fully operational and acceptable. Acceptance testing consists of operating each door open and closed (one cycle) ten times successfully and consecutively within a nine-hour time interval in accordance with manufacturer's recommended time interval between open/close cycles. Provide the Contracting Officer's Representative a copy of the final acceptance testing report with

completed tests.

3.6 PERSONNEL TRAINING

Provide a 4-hour on-site training session for the Government's door operating personnel and maintenance. Attendees may include base personnel such as facility users, fire department and others. In the training, outline door safety, normal operation, emergency operation, troubleshooting, maintenance, and repair guidelines.

-- End of Section --

NGBJV/TX CORROSION CONTROL FACILITY KELLY FIELD ANNEX

Addendum #3 - 09/09/2024 PN KELL169014 B-3 SUBMISSION, 09 SEPTEMBER, 2024

SECTION 09 06 00

SCHEDULES FOR FINISHES 08/22

PART 1 GENERAL

1.1 SUMMARY

THE FINAL MATERIAL AND COLOR SCHEDULE SHALL BE A DELEGATED DESIGN BY THE CONTRACTOR'S LICENSED ARCHITECT AND INTERIOR DESIGNER. FINISH MATERIALS MUST MEET SALIENT CHARACTERISTICS OUTLINED IN CONSTRUCTION DOCUMENTS. FINISH MATERIALS MUST BE COORDINATED IN COLOR, PATTERN AND QUALITY.

FINISH NAME AND DESCRIPTION IN THIS SCHEDULE AND OTHER SPECIFICATION SECTIONS ARE EXAMPLES INTENDED TO INDICATE COLOR, PATTERN, DESIGN INTENT, AND QUALITY OF MATERIALS. THEY ARE NOT INTENDED TO LIMIT CHOICE OF MANUFACTURERS FOR EQUAL PRODUCTS. FINAL COLOR AND PATTERN SELECTIONS ARE BY CONTRACTOR'S LICENSED ARCHITECT AND INTERIOR DESIGNER AND WILL BE APPROVED BY THE DESIGNER OF RECORD AND THE GOVERNMENT'S REPRESENTATIVE.

THE "FINISH" LISTED IN THIS SCHEDULE FOR FINISHES ARE FOR COLOR AND QUALITY REPRESENTATION ONLY.

This section covers only the color of exterior and interior materials and products that are exposed to view in the finished construction. The word "color", as used herein, includes surface color and pattern. Requirements for quality, product specifications, and method of installation are covered in other appropriate sections of the specifications. Specific locations where the various materials are required are shown on the drawings if not identified in this specification. Items not designated for color in this section may be specified in other sections. When color is not designated for items, propose a color for approval.

1.2 CONTRACTOR COLOR BOARDS

Contractor will submit actual color boards to include all finish color samples specified on the project, prior to the submittal and approval of individual finish submittals. The DOR must review and approve the color boards to verify overall building finish coordination and aesthetic. Color boards must be prepared by professional interior designers or architects with significant interior design experience. Qualification of designers is based on education, experience and examination. Interior designers or architects must have completed a program accredited by the Council for Interior Design Accreditation (CIDA) or equal accreditation program of academic training in interior design. In addition, the interior designer or architect must also have attained National Council for Interior Design Qualification (NCIDQ) certification or state licensure, certification or registration and must not be affiliated with a furniture dealership, vendor or manufacturer.

1.2.1 SUBMITTALS

Submit the following in accordance with Section 01 3300 SUBMITTAL PROCEDURES.

NGBJV/TX CORROSION CONTROL FACILITY KELLY FIELD ANNEX

Addendum #3 - 09/09/2024

PN KELL169014

B-3 SUBMISSION, 09 SEPTEMBER, 2024

Contractor Color Boards: G, DOR

Submit 5 3 sets of color boards, 30 days after the Contractor is given Notice to Proceed. Color boards must reflect all actual finish textures, patterns and colors required for this contract. Materials shall be labeled with the finish type, manufacturer's name, pattern and color reference.

Samples shall be on size 8-1/2 by 11 inch boards with a maximum spread of size 25-1/2 by 33 inches for foldouts. Samples for this color board are required in addition to samples requested in other specification sections.

PART 2 PRODUCTS

2.1 COLOR SCHEDULE

The color information provided in the following paragraphs lists the colors, patterns and textures for exterior and interior finishes, including both factory applied and field applied colors. In the case of difference between the drawings and specifications, colors identified in this specification govern.

2.2 EXTERIOR FINISHES

2.2.1 Exterior Walls

Exterior wall colors apply to exterior wall surfaces including recesses at entrances and projecting vestibules. When applicable, paint conduit to closely match the adjacent surface color. Provide wall colors to match the colors listed below.

2.2.1.1 Brick

Modular Brick - Color to match existing base brick

2.2.1.2 Mortar

Color to match existing base mortar

2.2.1.3 Metal Wall Panels, Hardware, and Associated Trim

- 1. FWP1 (exterior face): color TBD
- 2. FWP1 (interior face): color TBD
- 3. FBP1 (exterior and interior face): manufacturer's standard primer color.

2.2.1.4 Translucent Fiberglass Wall Panels

TFWP1: (exterior face) Crystal, (interior face) Crystal

Exposed Aluminum: color to match FWP1

2.2.2 Exterior Trim

Provide exterior trim to match the colors listed below.

2.2.2.1 Steel Doors and Door Frames

PT2: Tricorn Black, Semi Gloss or equal

2.2.3 Exterior Roof

Apply roof color to exterior roof surfaces including sheet metal flashings and copings, snow guards, mechanical units, mechanical penthouses, roof trim, pipes, conduits, electrical appurtenances, and similar items. Provide roof color to match the colors listed below.

2.2.3.1 Metal

SSMR1: color TBD

2.2.3.2 Penetrations

Match roof in color.

2.3 INTERIOR FINISHES

2.3.1 Interior Floor Finishes

Provide flooring materials to match the colors listed below.

2.3.1.1 Carpet (Modular Tile)

12 inch x 36 inch, brick ashlar installation. Carpet must match physical characteristics as outlined in 09 68 00 CARPETING.

2.3.1.2 Static-Control Carpet

SDT1: Static Control Flooring / Pearl White, 12 inch x 12 inch, or equal

2.3.1.3 Vinyl Composition Tile

VCT1: Gray, 12 inch x 12 inch, or equal.

2.3.1.4 Porcelain Tile

PRC1: 12 inch \times 24 inch, unpolished, or equal. PRC1 must meet physical characteristics in Section 09 30 10 CERAMIC, QUARRY AND GLASS TILING.

2.3.1.5 Grout

GR1: Charcoal or equal

2.3.1.6 Transition Strips

- 1. Resilient: Dolphin or equal
- 2. Aluminum: Clear Anodized

2.3.1.7 Entrance Flooring

EF1: Color Ebony, 24 inch x 24 inch or equal.

2.3.1.8 Concrete

CONC1: Clear Penetrating Sealer

2.3.1.9 Industrial Floor Coating

Base Bid: EP1: 3-part Epoxy Flooring, white. EP1 must meet salient characteristics in Section 09 67 23.15 FUEL RESISTANT RESINOUS FLOORING, 3-COAT

Bid Option EP2: 5-part Epoxy Flooring, white. EP2 must meet salient characteristics in Section 09 67 23.16 FUEL RESISTANT RESINOUS FLOORING, 5-COAT

2.3.2 Interior Base Finishes

Provide base materials to match the colors listed below.

2.3.2.1 Resilient Base and Moldings

RB1: Standard rubber base, 4" standard cove toe, Black.

2.3.2.2 Porcelain Tile

PRB1: Cove Base 6 inch x 12 inch, color to match wall tile.

2.3.2.3 Grout

GR1: Charcoal.

2.3.2.4 Integral Cove Base

Base Bid: EP1: 3-part Epoxy Flooring, White.

Bid Option: EP2: 5-part Epoxy Flooring, White.

2.3.3 Interior Wall Finishes

Apply interior wall color to the entire wall surface, including reveals, vertical furred spaces and columns, grilles, diffusers, electrical and access panels, and piping and conduit adjacent to wall surfaces unless otherwise specified. Paint items not specified in other paragraphs to match adjacent wall surface. Provide wall materials to match the colors listed below.

2.3.3.1 Paint

PT1: Amazing Gray, Eggshell.

2.3.3.2 Vinyl Wall Covering WC1

Writeable, magnetic wall covering: white.

2.3.3.3 Porcelain Tile

PRC2: 12 inch x 24 inch unpolished.

2.3.3.4 Grout

GR1: Charcoal.

2.3.4 Interior Ceiling Finishes

Apply ceiling colors to ceiling surfaces including soffits, furred down areas, grilles, diffusers, registers, and access panels. In addition, apply ceiling color to joists, underside of roof deck, and conduit and piping where joists and deck are exposed and required to be painted. Provide ceiling materials to match the colors listed below.

2.3.4.1 Acoustical Tile and Grid

Manufacturers Standard Color, White, Angled Tegular, 24 inch x 24 inch, 15/16 grid inch or equal.

2.3.4.2 Acoustical Ceiling Grid, open, ACG2

Acoustical ceiling grid, 24 by 24 inches, painted 360 black (all sufaces painted)

2.3.4.3 Paint (Ceilings)

PT3: Pure White, Flat.

2.3.4.4 Paint (Soffits)

PT3: Pure White, Flat.

2.3.4.5 Metal Deck

PT3: Pure White, Flat.

2.3.4.6 Structural Framing

PT3: Pure White, Flat.

2.3.5 Interior Trim

Provide interior trim to match the colors listed below.

2.3.5.1 Steel Doors

PT2: Black, Semi Gloss.

2.3.5.2 Steel Door Frames

PT2: Black, Semi Gloss.

2.3.5.3 Steel Windows (mullion, muntin, sash, trim, and stool)

PT2: Black, Semi Gloss.

2.3.5.4 Aluminum Doors and Door Frames

Clear Anodized.

- 2.3.5.5 Aluminum Windows (mullion, muntin, sash, trim, and stool)
 Clear Anodized.
- 2.3.5.6 Window Sills

 SSM1: Elegant Gray or equal.
- 2.3.5.7 Fire Extinguisher Cabinets
 White
- 2.3.5.8 Handrails

 PT2: Black, Semi Gloss or equal
- 2.3.5.9 Ladders

 PT2: Black, Semi Gloss or equal

2.3.6 Interior Window Treatment

2.3.7 Interior Miscellaneous

- Provide window treatments to match the colors listed below.
- 2.3.6.1 Window Shades

 RS1: Color TBD. Visible Light Transmittance 5%, manual operation.
- Provide miscellaneous items to match the colors listed below.
- 2.3.7.2 Plastic Laminate

 PLAM1: Florence Walnut, Fine Velvet Finish or equal
- 2.3.7.3 Solid Surfacing Material

 SSM1: Elegant Gray or equal
- 2.3.7.4 Window Sills (Solid Surface)

 Elegant Gray or equal

Corner Guards

2.3.7.5

- CG1: Stainless Steel, 3 1//2 inch legs, 48 inch high, or equal

2.3.7.8 Signage Background Color SG2

734 Dark Gray

2.3.7.9 Signage Frame SG3

101 Satin Aluminum

2.3.7.10 Lockers

TBD, selected from manufacturer's standard colors

2.3.7.11 Benches

TBD

2.3.7.12 Wall Switch Handles and Standard Receptacle Bodies

Stainless Steel

2.3.7.13 Electrical Device Cover Plates

Stainless Steel

2.3.7.14 Electrical Panels

Match adjacent surface

2.3.7.15 Shower Curtain

White

2.3.7.16 Shower Wall Kits, Trim

White

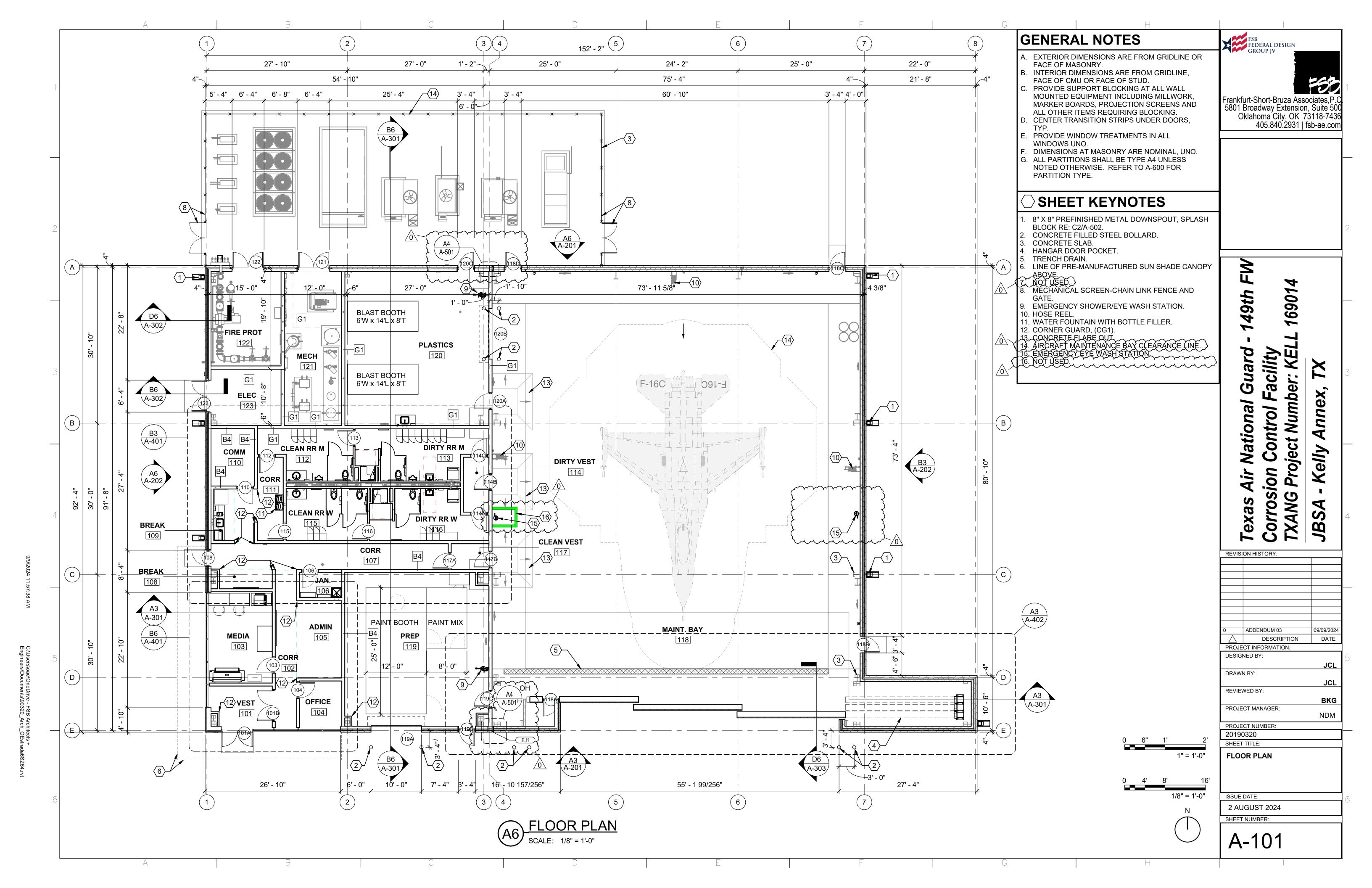
2.3.8 Shower Pan

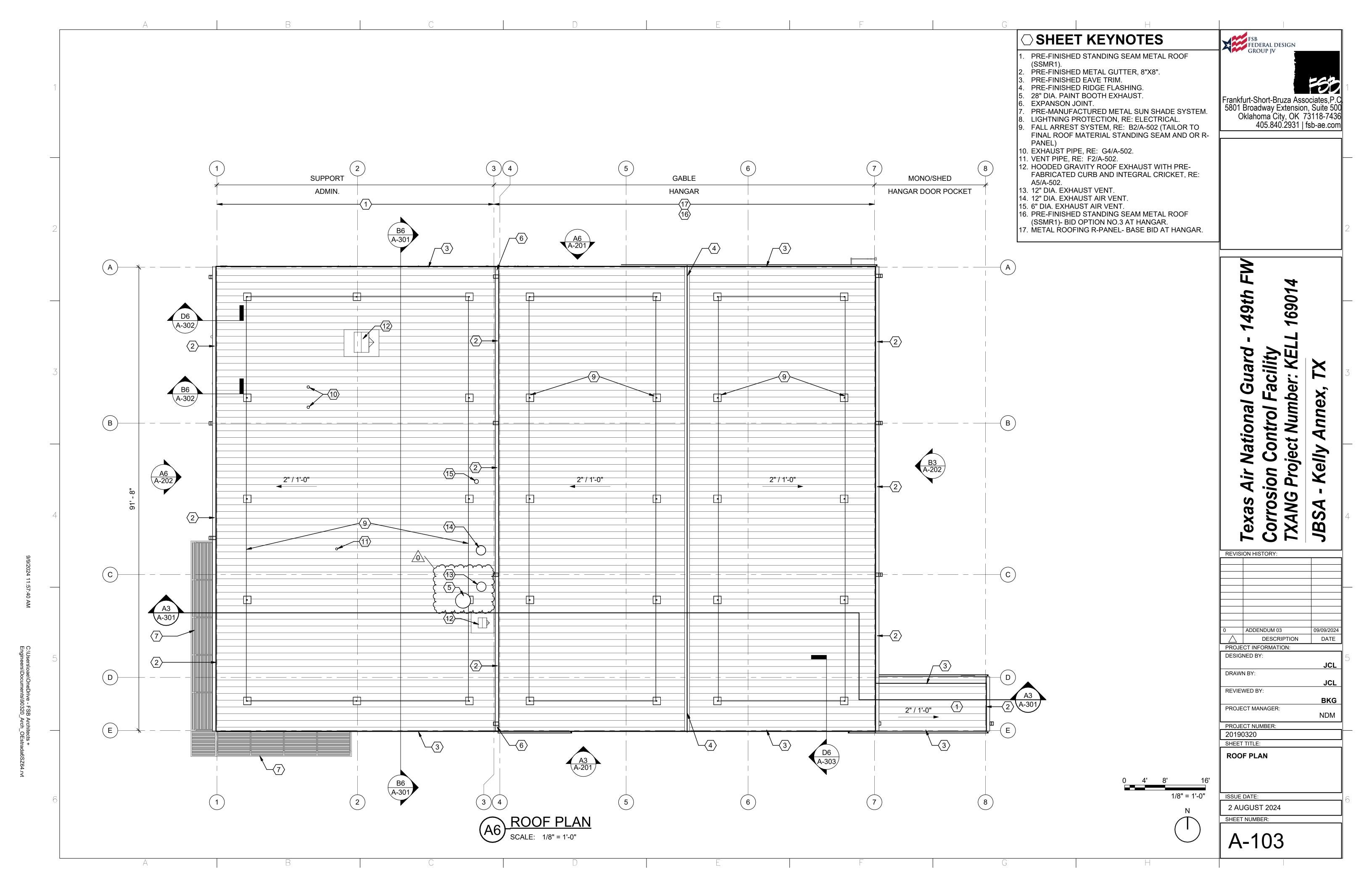
Terrazzo Shower Pan, as selected from manufacturer's full range of colors.

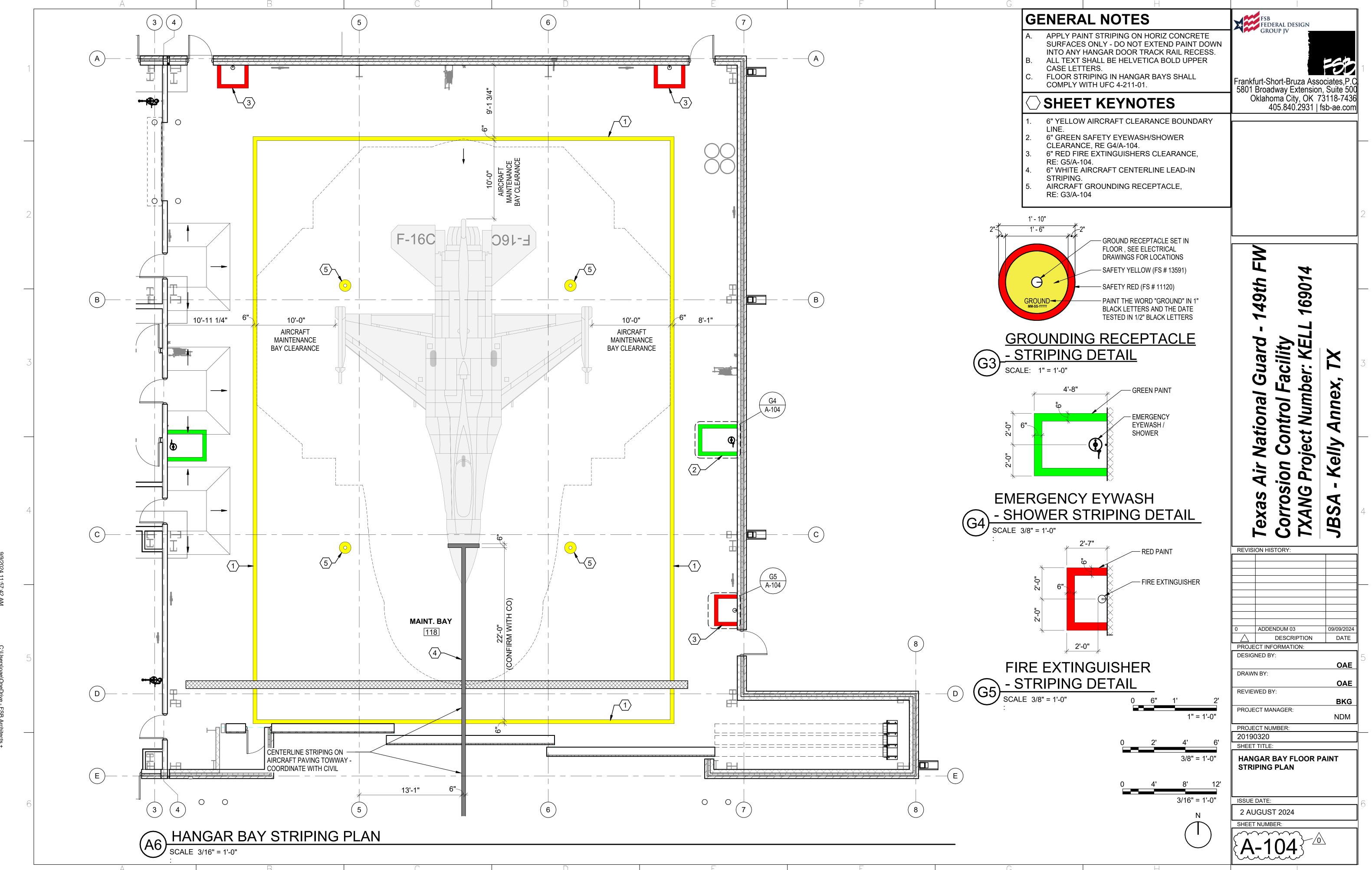
PART 3 EXECUTION

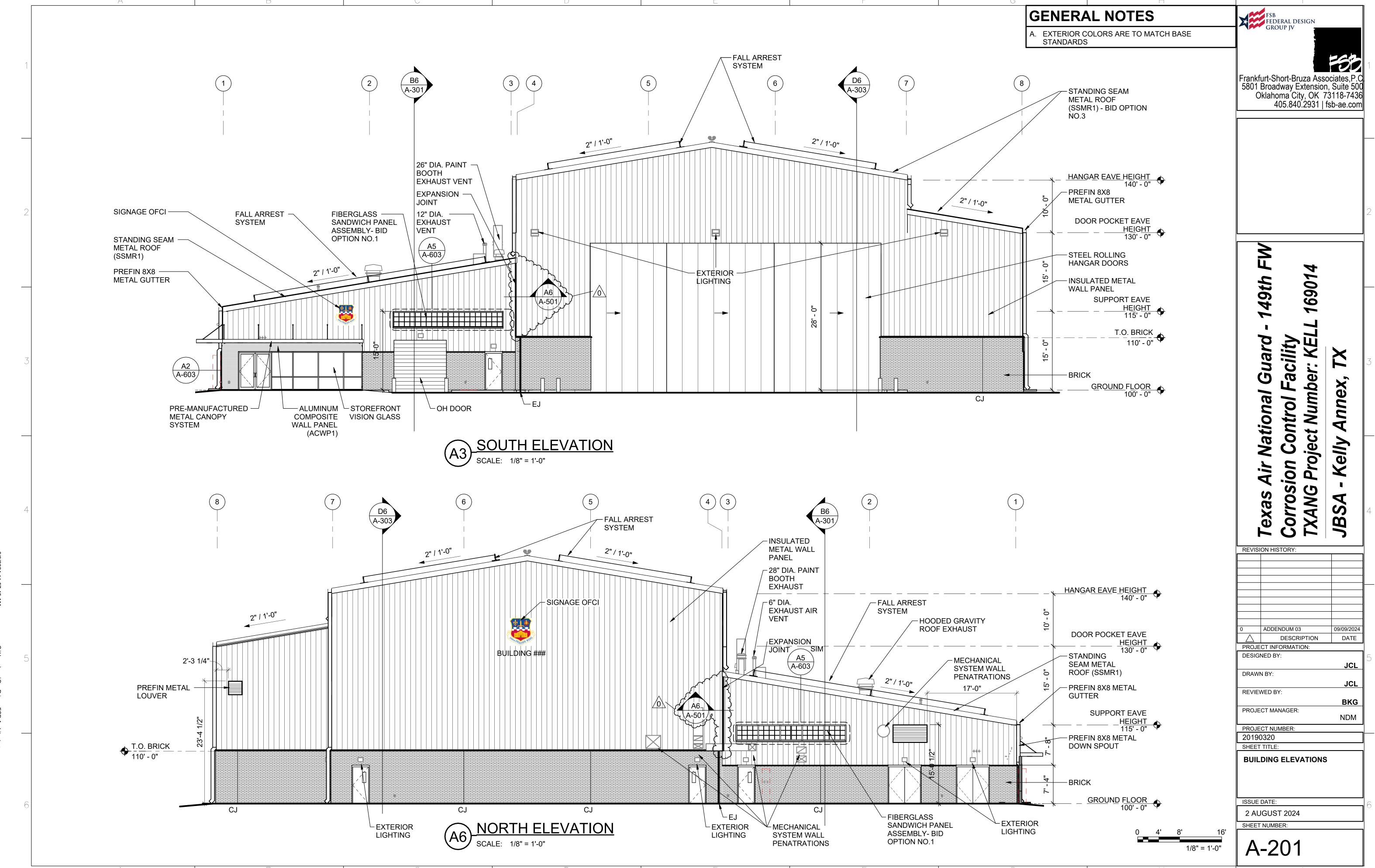
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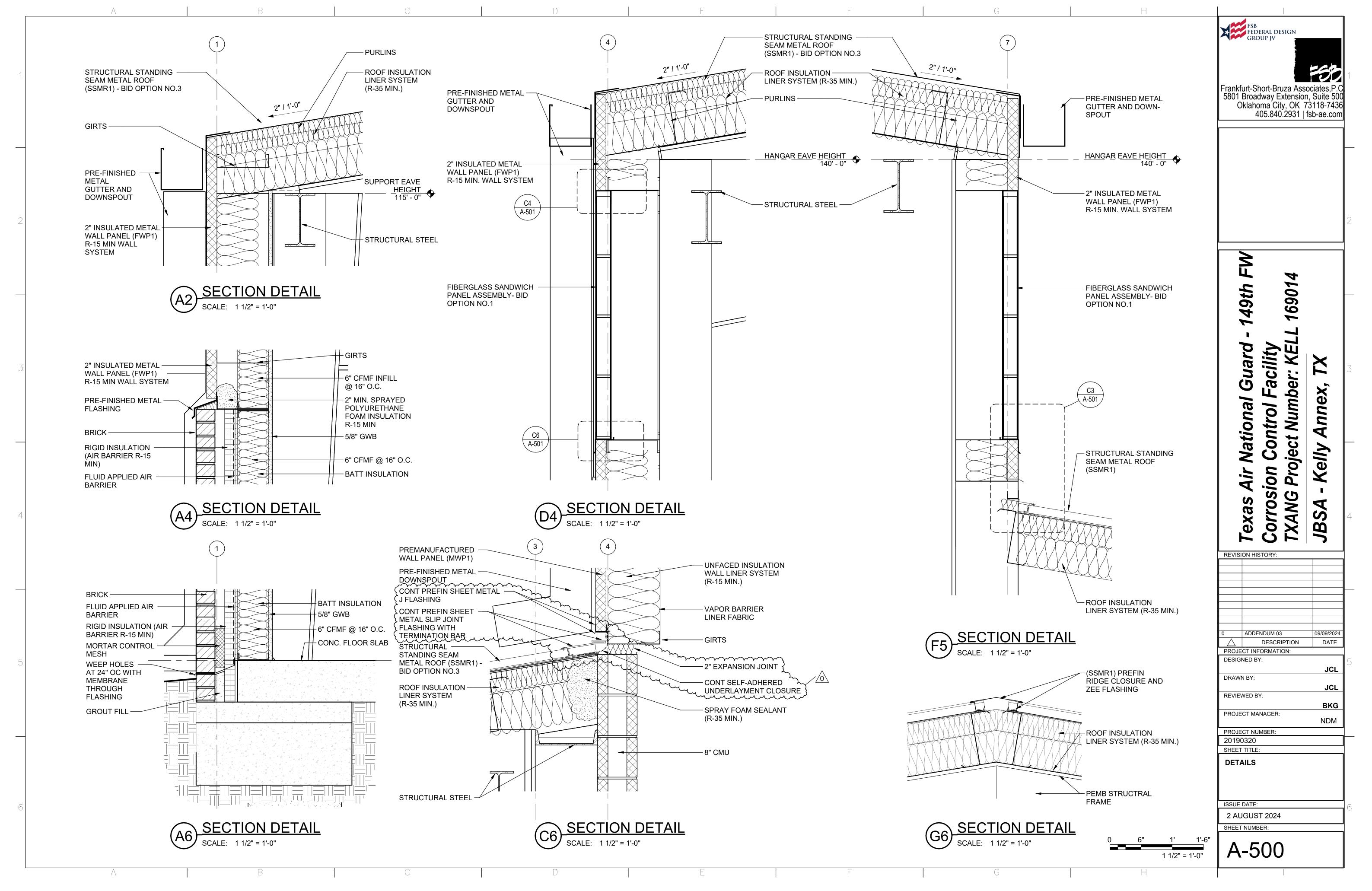
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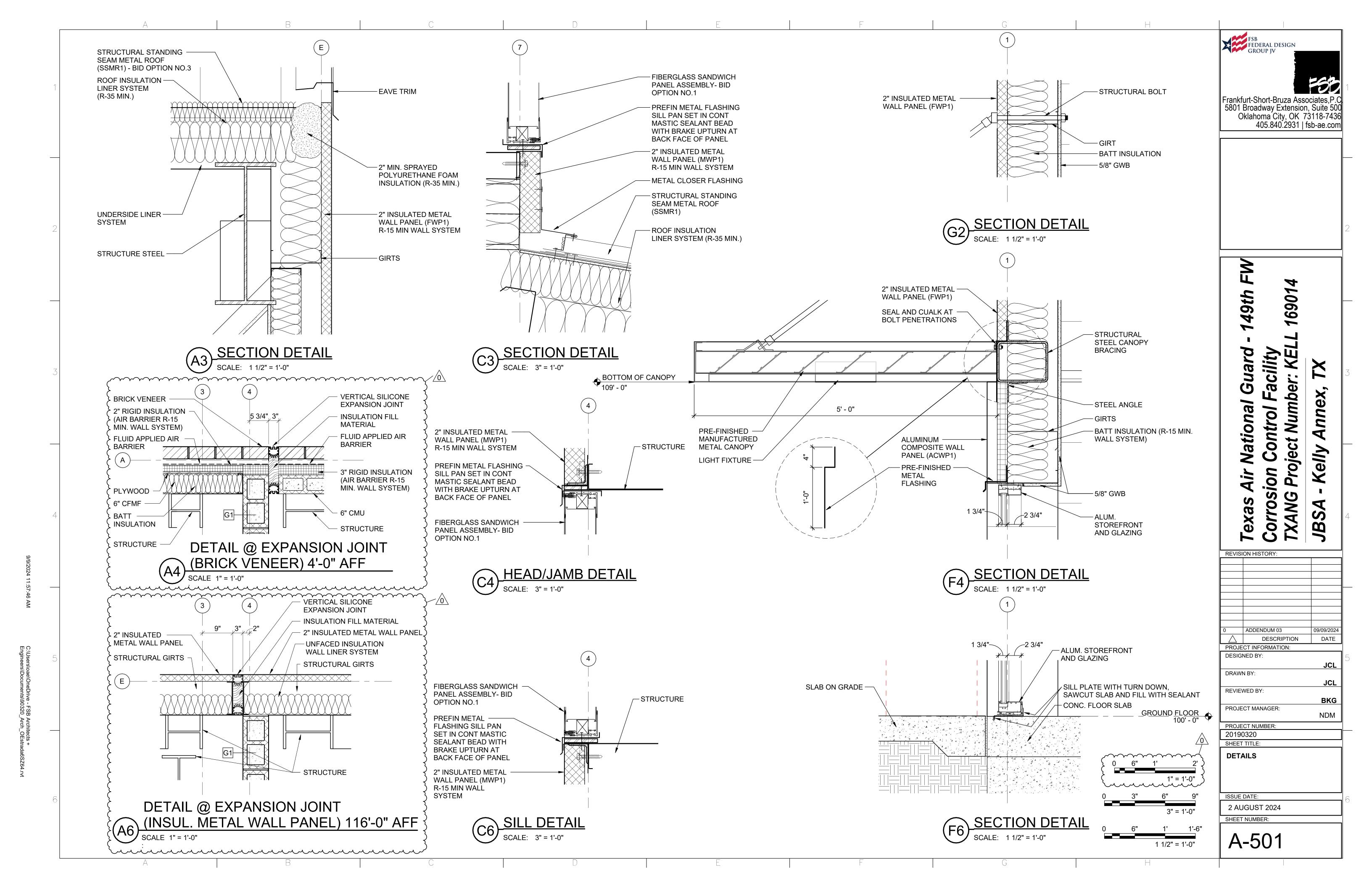


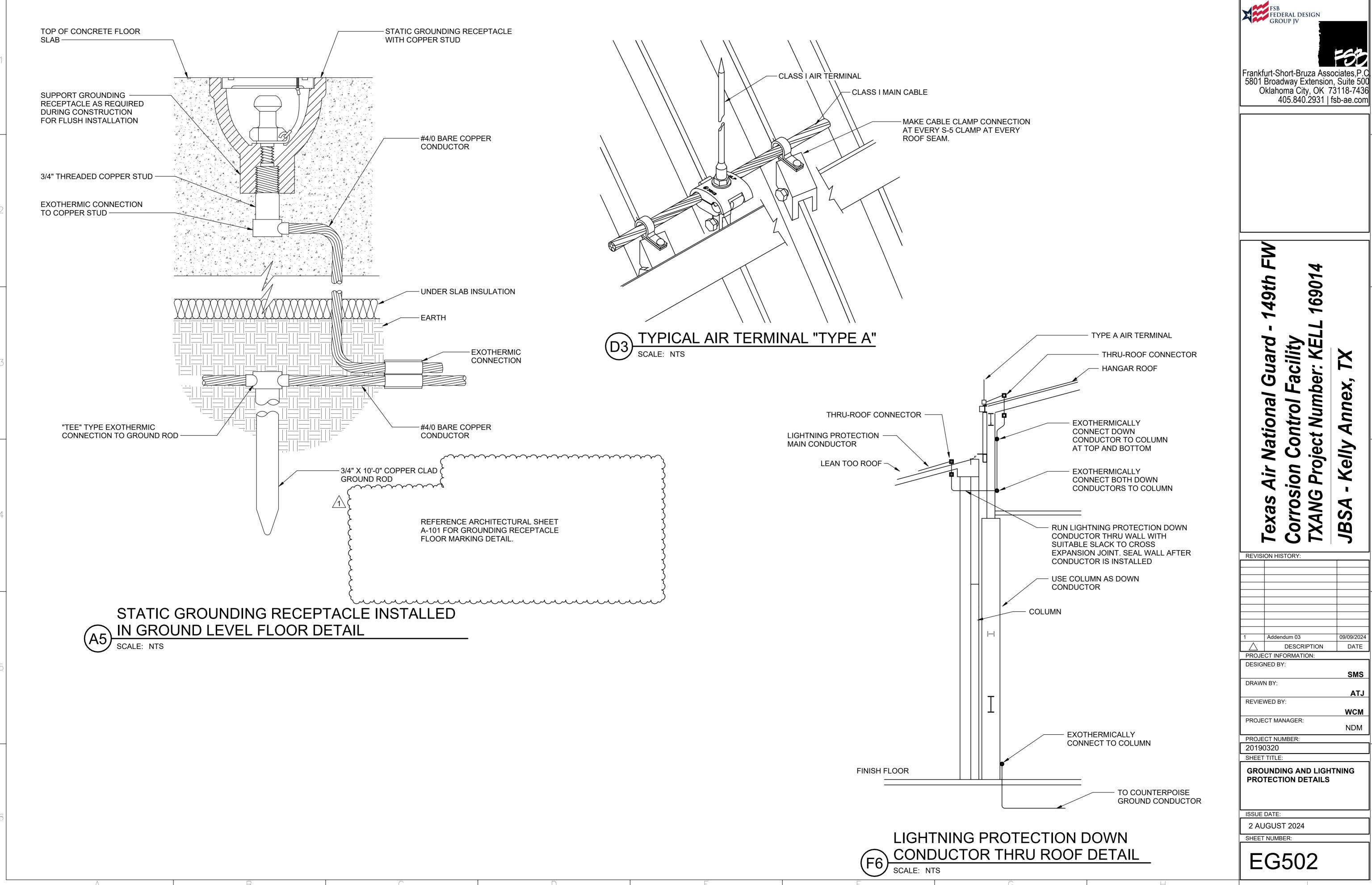




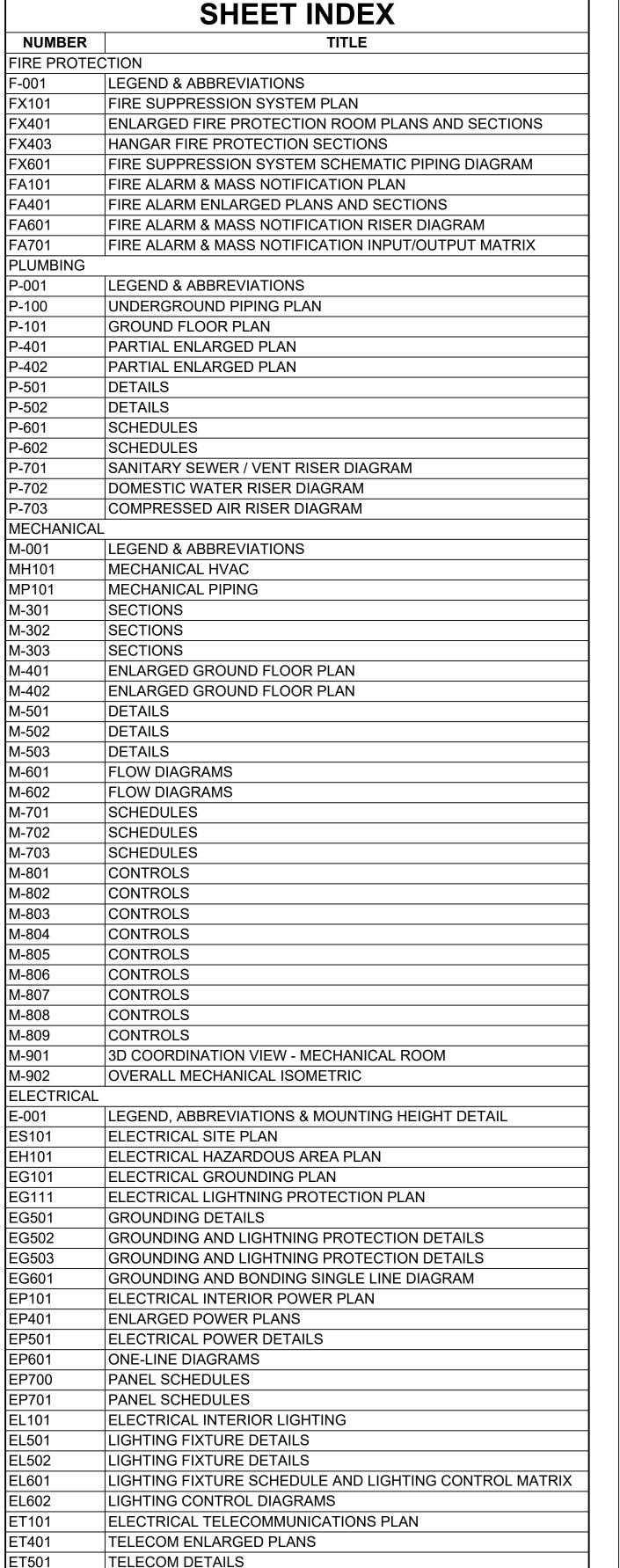








SHEET INDEX NUMBER TITLE GENERAL COVER SHEET G-001 SHEET INDEX G-201 CODE COMPLIANCE AND LIFE SAFETY FLOOR PLAN
SPECIAL INSPECTIONS G-202 SPECIAL INSPECTIONS G-203 SPECIAL INSPECTIONS ACCESS AND STAGING PLAN STORMWATER POLLUTION PREVENTION PLAN STORMWATER POLLUTION PREVENTION DETAILS C-301 REMOVAL PLAN C-401 PROPOSED PLAN C-402 TYPICAL SECTION AND PAVEMENT DETAILS C-403 JOINTING PLAN C-404 PAVEMENT JOINTING DETAILS C-405 STAKING PLAN C-501 GRADING PLAN C-601 UTILITY PLAN C-602 DRAINAGE SCHEDULE AND DETAILS C-603 DRAINAGE DETAILS C-604 SANITARY DETAILS C-605 SANITARY SCHEDULE AND DETAILS C-606 SANITARY OIL-WATER SEPARATOR DETAILS C-607 WATER DETAILS C-608 WATER DETAILS C-609 WATER DETAILS **STRUCTURAL** S-001 GENERAL NOTES S-002 GENERAL NOTES S-003 TYPICAL DETAILS S-004 TYPICAL DETAILS S-005 TYPICAL DETAILS SB101 FOUNDATION PLAN SB102 SLAB PLAN FOUNDATION DETAILS SB502 FOUNDATION DETAILS SB503 FOUNDATION DETAILS SB504 FOUNDATION DETAILS SB505 FOUNDATION DETAILS FOUNDATION DETAILS FOUNDATION DETAILS FOUNDATION DETAILS
SCHEMATIC LOW ROOF FRAMING PLAN SCHEMATIC HIGH ROOF FRAMING PLAN FRAMING DETAILS SF701 ISOMETRIC ISOMETRIC SF702 ARCHITECTURE A-100 LEGEND & ABBREVIATIONS FLOOR PLAN REFLECTED CEILING PLAN ROOF PLAN HANGAR BAY FLOOR PAINT STRIPING PLAN A-201 BUILDING ELEVATIONS A-202 BUILDING ELEVATIONS BUILDING SECTIONS AND AIR BARRIER A-301 A-302 WALL SECTIONS A-303 WALL SECTIONS A-401 ENLARGED PLAN A-402 ENLARGED PLAN INTERIOR ELEVATIONS A-500 DETAILS A-501 DETAILS A-502 DETAILS A-503 MILLWORK DETAILS A-600 DOOR SCHEDULES AND PARTITION TYPES A-601 DOOR DETAILS A-602 ROOM FINISH SCHEDULE A-603 GLAZING SCHEDULE INTERIORS FURNITURE PLAN IG-101 SIGNAGE PLAN SIGNAGE DETAILS AND ELEVATIONS IG-501



TELECOM RISER DIAGRAM



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PROJECT MANAGER:						
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REVISION HISTORY:

PROJECT MANAGER:	NDM
PROJECT NUMBER:	
20190320	
SHEET TITLE:	
SHEET INDEX	
ISSUE DATE:	

G-002

2 AUGUST 2024

SHEET NUMBER:

- THIS STATEMENT OF SPECIAL INSPECTIONS IS INCLUDED AS REQUIRED BY SECTION 1704.3 OF THE 2021 INTERNATIONAL BUILDING CODE (IBC).
- SPECIAL INSPECTIONS SHALL CONFORM TO CHAPTER 17 OF THE 2021 IBC AND OTHER APPLICABLE STANDARDS AS SUMMARIZED HEREIN GENERAL REQUIREMENTS ARE LISTED BELOW AND IN THE ATTACHED SCHEDULE OF SPECIAL INSPECTIONS TABLES. SPECIAL INSPECTIONS DO NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL SPECIAL INSPECTION OR TESTING REQUIREMENTS. IF CONFLICTING REQUIREMENTS ARE FOUND BETWEEN THE SPECIFICATIONS AND THE SCHEDULES OF SPECIAL INSPECTIONS. THE MOST STRINGENT PROVISION SHALL CONTROL UNLESS DIRECTED OTHERWISE IN WRITING BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
- THE OWNER SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PROVIDE SPECIAL INSPECTIONS AND TESTS FOR THIS PROJECT.
- EACH SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTATE COMPETENCE. TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION, FOR THE INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. PRIOR TO THE START OF CONSTRUCTION, EACH SPECIAL INSPECTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO THE AUTHORITY HAVING JURISDICTION DEMONSTRATING THEIR COMPETENCE AND RELEVANT EXPERIENCE OR TRAINING. EXPERIENCE OR TRAINING SHALL BE CONSIDERED RELEVENT WHEN THE DOCUMENTED EXPERIENCE OR TRAINING IS RELATED IN COMPLEXITY TO THE SAME TYPE OF SPECIAL INSPECTION ACTIVITIES FOR PROJECTS OF SIMILAR COMPLEXITY AND MATERIAL QUALITIES.
- THE CONTRACTOR SHALL GRANT AND MAINTAIN ACCESS FOR THE SPECIAL INSPECTOR. THE CONSTRUCTION OR WORK FOR WHICH SPECIAL INSPECTION OR TESTING IS REQUIRED SHALL REMAIN ACCESSIBLE AND EXPOSED FOR SPECIAL INSPECTION OR TESTING PURPOSES UNTIL COMPLETION OF THE REQUIRED SPECIAL INSPECTION OR TESTING.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING REASONABLE NOTICE TO THE SPECIAL INSPECTOR(S) REGARDING WHEN ELEMENTS OF THE PROJECT WILL BE READY FOR EFFICIENT IMPLEMENTATION OF SPECIAL INSPECTIONS.
- THE CONTRACTOR SHALL PROVIDE ACCESS TO THE LATEST VERSION OF ALL APPROVED PLANS AND SHOP DRAWINGS FOR THE SPECIAL INSPECTOR'S USE IN PERFORMING SPECIAL INSPECTIONS.
- APPROVED SPECIAL INSPECTORS SHALL KEEP RECORDS OF THEIR SPECIAL INSPECTIONS AND TESTS. THE SPECIAL INSPECTOR SHALL SUBMIT REPORTS OF SPECIAL INSPECTIONS AND TESTS TO THE AUTHORITY HAVING JURISDICTION AND TO THE REGISTERED DESIGN PROFESSIONALS IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED OR TESTED WAS OR WAS NOT COMPLETED IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE AUTHORITY HAVING JURISDICTION AND TO THE REGISTERED DESIGN PROFESSIONALS IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND TESTS, AND CORRECTION OF DISCREPANCIES, SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON PRIOR TO THE START OF WORK BY THE OWNER OR OWNER'S AUTHORIZED AGENT TO THE AUTHORITY HAVING JURISDICTION.
- SPECIAL INSPECTION OF FABRICATED ITEMS: WHERE FABRICATION OF STRUCTURAL, LOAD-BEARING, OR LATERAL LOAD-RESISTING MEMBERS OR ASSEMBLIES IS BEING CONDUCTED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTION OF THE FABRICATED ITEMS SHALL BE PERFORMED DURING FABRICATION, EXCEPT WHERE THE FABRICATOR HAS BEEN APPROVED TO PERFORM WORK WITHOUT SPECIAL INSPECTIONS IN ACCORDANCE WITH THE FOLLOWING CRITERIA:
- A SPECIAL INSPECTIONS DURING FABRICATION ARE NOT REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. APPROVAL SHALL BE BASED ON REVIEW OF THE FABRICATOR'S WRITTEN FABRICATION PROCEDURES AND QUALITY CONTROL MANUALS THAT PROVIDE A BASIS FOR CONTROL OF MATERIALS AND WORKMANSHIP, WITH PERIODIC AUDITING OF FABRICATION AND QUALITY CONTROL PRACTICES BY AN APPROVED AGENCY OR THE AUTHORITY HAVING JURISDICTION
- B AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE OWNER OR OWNER 'S AUTHORIZED AGENT FOR SUBMITTAL TO THE AUTHORITY HAVING JURISDICTION AS SPECIFIED IN 2021 IBC SECTION 1704.5 STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS
- SUBMITTALS TO THE AUTHORITY HAVING JURISDICTION: IN ADDITION TO THE SUBMITTAL OF REPORTS OF SPECIAL INSPECTIONS AND TESTS IN ACCORDANCE WITH 2021 IBC SECTION 1704.2.4, REPORTS AND CERTIFICATES SHALL BE SUBMITTED BY THE OWNER OR THE OWNER'S AUTHORIZED AGENT TO THE AUTHORITY HAVING JURISDICTION FOR EACH OF THE FOLLOWING, AS APPLICABLE:
- A CERTIFICATES OF COMPLIANCE FOR THE FABRICATION OF STRUCTURAL, LOAD-BEARING, OR LATERAL LOAD RESISTING MEMBERS OR ASSEMBLIES ON THE PREMISES OF AN APPROVED FABRICATOR IN ACCORDANCE WITH 2021 IBC SECTION 1704.2.5.1.
- B CERTIFICATES OF COMPLIANCE FOR THE SEISMIC QUALIFICATION OF NONSTRUCTURAL COMPONENTS, SUPPORTS, AND ATTACHMENTS IN ACCORDANCE WITH 2021 IBC SECTION 1705.14.2.
- C CERTIFICATES OF COMPLIANCE FOR DESIGNATED SEISMIC SYSTEMS IN ACCORDANCE WITH 2021 IBC SECTION 1705.14.3.
- D CERTIFICATES OF COMPLIANCE FOR OPEN WEB STEEL JOISTS AND JOIST GIRDERS IN ACCORDANCE WITH 2021 IBC SECTION 2207.5.
- E REPORTS OF MATERIAL PROPERTIES VERIFYING COMPLIANCE WITH THE REQUIREMENTS OF AWS D1.4 FOR WELDABILITY OF REINFORCING BARS COMPLYING WITH A STANDARD OTHER THAN ASTM A706 THAT ARE TO BE WELDED.
- F REPORTS OF MILL TESTS FOR REINFORCING BARS COMPLYING WITH ASTM A615 AND USED TO RESIST EARTHQUAKE-INDUCED FLEXURAL OR AXIAL FORCES IN SPECIAL MOMENT FRAMES, SPECIAL STRUCTURAL WALLS, OR COUPLING BEAMS CONNECTING SPECIAL STRUCTURAL WALLS OF SEISMIC FORCE-RESISTING SYSTEMS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY B. C. D. E. OR F.
- 12 THE INSPECTION TYPES DEFINED BELOW, AS APPLICABLE, ARE SPECIFIED IN THE ATTACHED SCHEDULE OF SPECIAL INSPECTION TABLES:
- A "OBSERVE" SHALL MEAN TO INSPECT THE ITEM(S) ON AN INTERMITTENT, PERIODIC BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. FREQUENCY OF OBSERVATIONS SHALL BE ADEQUATE TO CONFIRM THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE DOCUMENTS. IN THE EVENT THAT OBSERVATIONS DETERMINE THAT THE MATERIALS AND / OR WORKMANSHIP ARE NOT IN CONFORMANCE WITH THE APPLICABLE DOCUMENTS, ADDITIONAL INSPECTIONS SHALL BE PERFORMED TO DETERMINE THE EXTENT OF
- B "PERFORM" SHALL MEAN TO PERFORM THE TASK FOR EACH ITEM OR ELEMENT PRIOR TO FINAL ACCEPTANCE.
- C "CONTINUOUS" SHALL MEAN CONSTANT, CONTINUOUS MONITORING OF THE TASK(S) BY A SPECIAL INSPECTOR OVER THE DURATION OF PERFORMANCE OF THE TASK(S).
- D "DOCUMENT" SHALL MEAN TO DOCUMENT IN A REPORT OR OTHER WRITTEN DOCUMENTATION. IN ADDITION TO ALL OTHER REQUIRED REPORTS. THAT THE WORK HAS OR HAS NOT BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

	STRUCTURAL MAS	ONRY CONSTRU	CTION LEVEL 2 RISK CATEGORY I, II OR III
	TASK	INSPECTION TYPE	DESCRIPTION
	PRIOR TO CONSTRUCTION, VERIFY THE	FOLLOWING ARE	E IN COMPLIANCE WITH 2021 IBC 1705.4 AND TMS 602-16 TABLE 3.
1	COMPLIANCE OF SUBMITTALS	OBSERVE	
2	NET AREA COMPRESSIVE STRENGTH OF MASONRY (f'm)	OBSERVE	
	DURING CONSTRUCTION, VERIFY THE F	OLLOWING ARE	IN COMPLIANCE WITH 2021 IBC 1705.4 AND TMS 602-16 TABLE 3.
3	SELF-CONSOLIDATING GROUT	OBSERVE	SLUMP FLOW VISUAL STABILITY INDEX (VSI)
	AS CONSTRUCTION BEGINS, VERIFY THE	FOLLOWING AR	E IN COMPLIANCE WITH 2021 IBC 1705.4 AND TMS 602-16 TABLE 4.
4	SITE-PREPARED MORTAR	OBSERVE	VERIFY PROPORTIONS.
5	REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS	OBSERVE	TYPE, GRADE, AND SIZE.
6	SAMPLE PANEL CONSTRUCTION	OBSERVE	
	PRIOR TO GROUTING, VERIFY THE FO	LLOWING ARE IN	N COMPLIANCE WITH 2021 IBC 1705.4 AND TMS 602-16 TABLE 4.
7	GROUT SPACE	OBSERVE	
8	REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS	OBSERVE	
9	SITE-PREPARED GROUT	OBSERVE	VERIFY PROPORTIONS.
	DURING CONSTRUCTION, VERIFY THE F	OLLOWING ARE	IN COMPLIANCE WITH 2021 IBC 1705.4 AND TMS 602-16 TABLE 4.
10	MATERIALS AND PROCEDURES	OBSERVE	VERIFY PERFORMED IN ACCORDANCE WITH THE APPROVED SUBMITTALS.
11	MASONRY UNITS AND MORTAR JOINTS	OBSERVE	VERIFY PLACEMENT.
12	STRUCTURAL MEMBERS	OBSERVE	VERIFY SIZE AND LOCATION.
13	ANCHORS AND OTHER ANCHORAGE	OBSERVE	TYPE, SIZE, AND LOCATION VERIFY OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION
14	WELDING OF REINFORCEMENT	CONTINUOUS	VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706 INSPECT IN ACCORDANCE WITH AWS D1.4
15	PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY	OBSERVE	COLD WEATHER PROCEDURES HOT WEATHER PROCEDURES
16	GROUT PLACEMENT	CONTINUOUS	VERIFY PREPARATION, PROCEDURES, AND TECHNIQUES.
17	GROUT AND MORTAR SPECIMENS	OBSERVE	VERIFY THE TEST SPECIMENS ARE PREPARED BY QUALIFIED TECHNICIANS

	GEOTECHNICAL SOILS INSPECTION		
	TASK	INSPECTION TYPE	DESCRIPTION
	DURING CONSTRUCTION, \	/ERIFY THE FOLL	OWING ARE IN COMPLIANCE WITH 2021 IBC 1705.6.
1	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS	OBSERVE	ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY
2	VERIFY EXCAVATIONS	OBSERVE	EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL
3	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	OBSERVE	
4	DURING FILL PLACEMENT VERIFY USE OF PROPER MATERIALS AND PROCEDURES IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT.	CONTINUOUS	MATERIALS, DENSITIES, AND LIFT THICKNESSES
5	PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT THE SITE HAS BEEN PREPARED PROPERLY	OBSERVE	DURING FILL PLACEMENT, THE SPECIAL INSPECTOR SHALL VERIFY THAT PROPER MATERIALS AND PROCEDURES ARE USED IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT.



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REVISI	ON HISTORY:			
1	ADDENDUM 03	09/09/2024		
	DESCRIPTION	DATE		
PROJECT INFORMATION:				
DESIGNED BY:				

CGH DRAWN BY:

CGH

BJW

NDM

PROJECT MANAGER:

PROJECT NUMBER: 20190320

SHEET TITLE:

REVIEWED BY:

SPECIAL INSPECTIONS

ISSUE DATE:

2 AUGUST 2024

SHEET NUMBER:

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	STRUCTURAL CONCRETE CONSTRUCTION, INCLUDING COMPOSITE DECK				
	TASK	INSPECTION TYPE	DESCRIPTION		
	VERIFY THE FOLI	OWING ARE IN C	COMPLIANCE WITH 2021 IBC TABLE 1705.3.		
1	INSTALLATION OF FORMWORK	OBSERVE	VERIFY SHAPE, LOCATION, AND DIMENSIONS OF MEMBER BEING FORMED.		
2	INSTALLATION OF REINFORCEMENT, INCLUDING PRESTRESSING TENDONS	OBSERVE	BONDED REINFORCEMENT SHALL BE FREE OF UNACCEPTABLE RUST AND ICE, MUD, OIL, OR OTHER DELETERIOUS COATINGS THAT DECREASE BOND TYPE, GRADE, AND SIZE LOCATION, ORIENTATION, SPACING, AND CLEARANCES PROPER PLACEMENT OF HOOKS, BENDS, TIES, STIRRUPS, AND SUPPLEMENTAL REINFORCEMENT LAP LENGTHS, STAGGER, AND OFFSETS PROVIDED ALL MECHANICAL CONNECTIONS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND / OR EVALUATION REPORT		
3	REINFORCING BAR WELDING, SINGLE PASS FILLET 5/16" MAXIMUM	OBSERVE	VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706 INSPECT IN ACCORDANCE WITH AWS D1.4		
4	REINFORCING BAR WELDING, ALL OTHER WELDS	CONTINUOUS	VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706 INSPECT IN ACCORDANCE WITH AWS D1.4		
5	CAST-IN-PLACE ANCHORS	OBSERVE	PRIOR TO PLACEMENT OF CONCRETE: • TYPE, GRADE, AND SIZE • LOCATIONS, SPACING, AND CLEARANCES • LENGTH AND EXTENT OR DEPTH OF EMBEDMENT		
6	POST-INSTALLED MECHANICAL ANCHORS	OBSERVE	TYPE, GRADE, AND SIZE LOCATIONS, SPACING, CLEARANCES, AND EDGE DISTANCES LENGTH AND EXTENT OR DEPTH OF EMBEDMENT		
7	POST-INSTALLED ADHESIVE ANCHORS	OBSERVE	VERIFY MINIMUM AGE, TEMPERATURE, AND MOISTURE CONDITION AT THE TIME OF ANCHOR INSTALLATION OF THE CONCRETE SUBSTRATE HOLE DRILLING AND PREPARATION REQUIREMENTS TYPE, GRADE, AND SIZE LOCATIONS, SPACING, CLEARANCES, AND EDGE DISTANCES LENGTH AND EXTENT OR DEPTH OF EMBEDMENT INSTALLATION IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND OR EVALUATION REPORT PROOF LOADING, IF REQUIRED BY CONTRACT DOCUMENTS		
8	POST-INSTALLED ADHESIVE ANCHORS INSTALLED IN A HORIZONTAL OR UPWARD INCLINED ORIENTATION AND RESIST SUSTAINED TENSION LOADS	CONTINUOUS	ALL ITEMS LISTED FOR TASK NO. 7 ABOVE INSTALLER CERTIFIED IN ACCORDANCE WITH AN APPLICABLE ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM		
9	VERIFY USE OF REQUIRED MIX DESIGN	OBSERVE	VERIFY THAT ALL MIXES USED COMPLY WITH THE APPROVED CONSTRUCTION DOCUMENTS.		
10	FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	CONTINUOUS	AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE STRENGTH TEST SPECIMENS, VERIFY THESE TESTS ARE PERFORMED BY QUALIFIED TECHNICIANS.		
11	INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	CONTINUOUS	SEGREGATION AND / OR CONTAMINATION AVOIDED DURING CONVEYANCE AND DEPOSITING PROPER CONSOLIDATION		
12	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	OBSERVE	CURING PROCEDURES AND TEMPERATURE COLD WEATHER PROTECTION HOT WEATHER PROTECTION		
13	PRESTRESSED CONCRETE	CONTINUOUS	APPLICATION OF PRESTRESSING FORCES GROUTING OF BONDED PRESTRESSING TENDONS		

	STRUCTURAL BRICK VENEER MASONRY LEVEL 1 RISK CATEGORY I, II OR III				
TASK		INSPECTION TYPE	DESCRIPTION		
	PRIOR TO CONSTRUCTION, VERIFY THE FOLLOWING ARE IN COMPLIANCE WITH 2021 IBC 1705.4 AND TMS 602-16 TABLE 3.				
1	COMPLIANCE OF SUBMITTALS	OBSERVE			

	STRUCTURAL OPEN-WEB STEEL JOISTS AND JOIST GIRDERS				
TASK		INSPECTION TYPE	DESCRIPTION		
	VERIFY THE FOLLOWING ARE IN COMPLIANCE WITH 2021 IBC 1705.2.3.				
1	VERIFY INSTALLATION	OBSERVE	MEMBER SIZES AND LOCATIONS END CONNECTIONS, WELDED OR BOLTED BRIDGING, HORIZONTAL AND / OR DIAGONAL		

	STRUCTURAL COLD-FORMED METAL DECK PLACEMENT			
	TASK	INSPECTION TYPE	DESCRIPTION	
	PRIOR TO DECK PLACEMENT, VERIFY THE FOLLOWI	NG ARE IN COMF	PLIANCE WITH 2021 IBC 1705.2.2 AND SDI QA/QC-2017 APPENDIX 1 TABLE 1.1.	
1	VERIFY COMPLIANCE OF MATERIALS (DECK AND ALL DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS	PERFORM	PROFILES MATERIAL PROPERTIES BASE METAL THICKNESS	
2	ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES	DOCUMENT		
	DURING DECK PLACEMENT, VERIFY THE FOLLOWIN	NG ARE IN COMP	LIANCE WITH 2021 IBC 1705.2.2 AND SDI QA/QC-2017 APPENDIX 1 TABLE 1.2	
3	VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION DOCUMENTS	PERFORM		
4	VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILL CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS	PERFORM		
5	ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES	DOCUMENT		
	AFTER DECK PLACEMENT, VERIFY THE FOLLOWIN	G ARE IN COMPL	IANCE WITH 2021 IBC 1705.2.2 AND SDI QA/QC-2017 APPENDIX 1 TABLE 1.3	
6	WELDING PROCEDURE SPECIFICATION (WPS) AVAILABLE	OBSERVE		
7	MANUFACTURERS CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	OBSERVE		
8	MATERIAL IDENTIFICATION	OBSERVE	TYPE AND GRADE.	
9	CHECK WELDING EQUIPMENT	OBSERVE		

	STRUCTURAL	COLD-FORMED I	METAL DECK MECHANICAL FASTENING
	TASK	INSPECTION TYPE	DESCRIPTION
BEF	FORE MECHANICAL FASTENING, VERIFY THE FOLLO	WING ARE IN CO	DMPLIANCE WITH 2021 IBC 1705.2.2 AND SDI QA/QC-2017 APPENDIX 1 TABLE 1.6.
1	MANUFACTURER INSTALLATION INSTRUCTIONS FOR FASTENERS AVAILABLE	OBSERVE	
2	PROPER TOOLS FOR FASTENER INSTALLATION AVAILABLE	OBSERVE	
3	PROPER STORAGE PROVIDED FOR FASTENERS	OBSERVE	
DU	RING MECHANICAL FASTENING, VERIFY THE FOLLO	WING ARE IN CO	DMPLIANCE WITH 2021 IBC 1705.2.2 AND SDI QA/QC-2017 APPENDIX 1 TABLE 1.7
4	FASTENERS POSITIONED AS REQUIRED	OBSERVE	
5	FASTENERS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS	OBSERVE	
AF	TER MECHANICAL FASTENING, VERIFY THE FOLLO	WING ARE IN CO	MPLIANCE WITH 2021 IBC 1705.2.2 AND SDI QA/QC-2017 APPENDIX 1 TABLE 1.8
6	INSTALLATION OF SUPPORT FASTENERS	PERFORM	TYPE SPACING INSTALLATION
7	INSTALLATION OF SIDELAP FASTENERS	PERFORM	TYPE SPACING INSTALLATION
8	INSTALLATION OF PERIMETER FASTENERS	PERFORM	TYPE SPACING INSTALLATION
9	REPAIR ACTIVITIES	PERFORM	
10	ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS	DOCUMENT	



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149th FW 169014 osion Control Facility NG Project Number: KELL Annex, Kelly REVISION HISTORY:

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ADDENDUM 03	09/09/2024		
DESCRIPTION	DATE		
PROJECT INFORMATION:			
DESIGNED BY:			
	CGH		
	CT INFORMATION:		

DRAWN BY: CGH

NDM

REVIEWED BY: PROJECT MANAGER:

PROJECT NUMBER:

20190320 SHEET TITLE:

SPECIAL INSPECTIONS

ISSUE DATE:

2 AUGUST 2024

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STRUCTURAL STEEL BOLTING					
	TASK	INSPECTION TYPE	DESCRIPTION		
	PRIOR TO BOLTING, VERIFY THE FOLLOWING ARE IN COMPLIANCE WITH 2021 IBC 1705.2.1 AND AISC 360-16 TABLE N5.6-1.				
1	MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	PERFORM			
2	FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	OBSERVE			
3	PROPER FASTENERS SELECTED FOR JOINT DETAIL	OBSERVE	TYPE AND GRADE. LENGTH (IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)		
4	PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	OBSERVE			
5	CONNECTING ELEMENTS, INCLUDING APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	OBSERVE			
6	PROTECTED STORAGE PROVIDED	OBSERVE	BOLTS, NUTS, AND WASHERS OTHER FASTENER COMPONENTS		
7	PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	OBSERVE			
	DURING BOLTING, VERIFY THE FOLLOW	ING ARE IN COM	MPLIANCE WITH 2021 IBC 1705.2.1 AND AISC 360-16 TABLE N5.6-2.		
8	FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS POSITIONED AS REQUIRED	OBSERVE			
9	JOINT BROUGHT TO SNUG-TIGHT CONDITION PRIOR TO PRETENSIONING OPERATION	OBSERVE			
10	FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	OBSERVE			
11	FASTENERS PRETENSIONED IN ACCORDANCE WITH RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	OBSERVE			
AFTER BOLTING, VERIFY THE FOLLOWING ARE IN COMPLIANCE WITH 2021 IBC 1705.2.1 AND AISC 360-16 TABLE N5.6-3.					
12	ACCEPTANCE OR REJECTION OF ALL BOLTED CONNECTIONS	DOCUMENT			

		INSPECTION	STEEL WELDING
	TASK	TYPE	DESCRIPTION
	PRIOR TO WELDING, VERIFY THE FOLLO	WING ARE IN CO	MPLIANCE WITH 2021 IBC 1705.2.1 AND AISC 360-16 TABLE N5.4-1.
1	VERIFY THE WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	OBSERVE	WELDING BY WELDERS, WELDING OPERATORS, AND TACK WELDERS WHO AF QUALIFIED IN CONFORMANCE WITH REQUIREMENTS.
2	VERIFY THAT THE WELDING PROCEDURE SPECIFICATIONS (WPS) ARE AVAILABLE	PERFORM	
3	VERIFY THAT THE MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES ARE AVAILABLE	PERFORM	
4	VERIFY MATERIAL IDENTIFICATION	OBSERVE	TYPE AND GRADE.
5	WELDER IDENTIFICATION SYSTEM	OBSERVE	THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.
6	FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)	OBSERVE	JOINT PREPARATION DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) CLEANLINESS (CONDITION OF STEEL SURFACES) TACKING (TACK WELD QUALITY AND LOCATION) BACKING TYPE AND FIT (IF APPLICABLE)
7	CONFIGURATION AND FINISH OF ACCESS HOLES	OBSERVE	
8	FIT-UP OF FILLET WELDS	OBSERVE	DIMENSIONS (ALIGNMENT, GAPS AT ROOT) CLEANLINESS (CONDITION OF STEEL SURFACES) TACKING (TACK WELD QUALITY AND LOCATION)
	DURING WELDING, VERIFY THE FOLLOW	/ING ARE IN COM	MPLIANCE WITH 2021 IBC 1705.2.1 AND AISC 360-16 TABLE N5.4-2.
9	CONTROL AND HANDLING OF WELDING CONSUMABLES	OBSERVE	PACKAGING ELECTRODE ATMOSPHERIC EXPOSURE CONTROL
10	NO WELDING OVER CRACKED TACK WELDS	OBSERVE	
11	ENVIRONMENTAL CONDITIONS	OBSERVE	WIND SPEED WITHIN LIMITS MOISTURE / PRECIPITATION TEMPERATURE
12	WELDING PROCEDURE SPECIFICATIONS (WPS) FOLLOWED	OBSERVE	SETTINGS ON WELDING EQUIPMENT TRAVEL SPEED SELECTED WELDING MATERIALS SHIELDING GAS TYPE AND FLOW RATE PREHEAT APPLIED INTERPASS TEMPERATURE MAINTAINED (MINIMUM AND MAXIMUM) PROPER POSITION (F, V, H, OH) INTERMIX OF FILLER METALS AVOIDED
13	WELDING TECHNIQUES	OBSERVE	INTERPASS AND FINAL CLEANING EACH PASS WITHIN PROFILE LIMITATIONS EACH PASS MEETS QUALITY REQUIREMENTS
	AFTER WELDING, VERIFY THE FOLLOW	ING ARE IN COM	IPLIANCE WITH 2021 IBC 1705.2.1 AND AISC 360-16 TABLE N5.4-3.
14	WELDS CLEANED	OBSERVE	VEDIEV CONFORM TO THE RECUIRE SECTION OF THE SECTIO
16	SIZE, LENGTH, AND LOCATION OF ALL WELDS WELDS MEET VISUAL ACCEPTANCE CRITERIA	PERFORM	VERIFY CONFORM TO THE REQUIREMENTS OF THE DETAIL DRAWINGS. CRACK PROHIBITION WELD AND BASE-METAL FUSION CRATER CROSS SECTION WELD PROFILE WELD SIZE UNDERCUT POROSITY
17	ARC STRIKES	PERFORM	
18	K-AREA	PERFORM	WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES, OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 INCHES OF THE WELD.
19	WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES	PERFORM	AFTER ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES, AS DEFINED II AISC 360-16 SECTIONS A3.1C AND A3.1D RESPECTIVELY, ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS.
20	BACKING REMOVED, WELD TABS REMOVED AND FINISHED, AND FILLET WELDS ADDED, WHERE REQUIRED	PERFORM	
21	NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT APPROVAL OF THE EOR	OBSERVE	
22	REPAIR ACTIVITIES	PERFORM	
23	ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	DOCUMENT	



149th FW 169014 as Air National Guard -rosion Control Facility NG Project Number: KELL Corros REVISION HISTORY:

1	ADDENDUM 03	09/09/2024			
	DESCRIPTION	DATE			
PROJE	CT INFORMATION:				
DESIG	DESIGNED BY:				
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		CGH			
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	N BY:				

JBS/

NDM

PROJECT NUMBER: 20190320

SHEET TITLE: SPECIAL INSPECTIONS

ISSUE DATE:

2 AUGUST 2024

SB508 - FOUNDATION DETAILS

EG502 - GROUNDING AND LIGHTNING PROTECTION DETAILS

MODIFICATIONS TO THE SPECIFICATIONS

- ITEM 01.1-1 Refer to attached Specification Section 01 14 00 WORK RESTRICTIONS, dated 9 September 2024:
 - A. Specification Section 01 14 00 is hereby **revised and re-issued** in its entirety to revise the working hours section 1.3.2.
 - Replace Section 01 14 00 dated 2 August 2024 with attached revised Specification Section 01 14 00 dated 9 September 2024.
- ITEM 01.1-2 Refer to attached Specification Section 08 34 16.10 HORIZONTAL ROLLING STEEL DOORS, dated 9 September 2024:
 - A. Specification Section 08 34 16.10 is hereby revised and re-issued in its entirety to revise section 2.1.8.1.
 - Replace Section 08 34 16.10 dated 2 August 2024 with attached revised Specification Section 08 34 16.10 dated 9 September 2024.
- ITEM 01.1-3 Refer to attached Specification Section 09 06 00 SCHEDULE OF FINISHES, dated 9 September 2024:
 - A. Specification Section 09 06 00 is hereby **revised and re-issued** in its entirety to revise change the number of color boards.
 - Replace Section 09 06 00 dated 2 August 2024 with attached revised Specification Section 09 06 00 dated 9 September 2024.

MODIFICATIONS TO THE DRAWINGS

- ITEM 01.2-1 Refer to attached Sheet G-002 SHEET INDEX, dated 9 September 2024:
 - A. Sheet G-002 is hereby revised and re-issued in its entirety to add additional sheets.
 - Replace Sheet G-002 dated 2 August 2024 with attached revised Sheet G-002 dated 9 September 2024.
- ITEM 01.2-2 Refer to attached Sheet G-201 SPECIAL INSPECTIONS, dated 9 September 2024:
 - A. Sheet G-201 is hereby **issued** in its entirety to provide direction.
- ITEM 01.2-3 Refer to attached Sheet G-202 SPECIAL INSPECTIONS, dated 9 September 2024:
 - A. Sheet G-202 is hereby **issued** in its entirety to provide direction.
- ITEM 01.2-4 Refer to attached Sheet G-203 SPECIAL INSPECTIONS, dated 9 September 2024:
 - A. Sheet G-203 is hereby **issued** in its entirety to provide direction.
- ITEM 01.2-5 Refer to attached Sheet A101 FLOOR PLAN, dated 9 September 2024:
 - A. Sheet A101 is hereby **revised and re-issued** in its entirety to revise keynotes.
 - Replace Sheet A101 dated 2 August 2024 with attached revised Sheet A101 dated 9 September 2024.
- ITEM 01.2-6 Refer to attached Sheet A103 ROOF PLAN, dated 9 September 2024:
 - A. Sheet A-103 is hereby **revised and re-issued** in its entirety to revise exhaust penetrations.
 - Replace Sheet A-103 dated 2 August 2024 with attached revised Sheet A-103 dated 9 September 2024.
- ITEM 01.2-7 Refer to attached Sheet A104 HANGAR BAY FLOOR PAINT STRIPING PLAN, dated 9 September 2024:
 - A. Sheet A-104 is hereby **issued** in its entirety.
- ITEM 01.2-8 Refer to attached Sheet A201 BUILDING ELEVATIONS, dated 9 September 2024:
 - A. Sheet A-201 is hereby **revised and re-issued** in its entirety to add section cuts.

- Replace Sheet A-201 dated 2 August 2024 with attached revised Sheet A-201 dated 9 September 2024.
- ITEM 01.2-9 Refer to attached Sheet A500 DETAILS, dated 9 September 2024:
 - A. Sheet A-500 is hereby **revised and re-issued** in its entirety to revise detail section.
 - Replace Sheet A-500 dated 2 August 2024 with attached revised Sheet A-500 dated 9 September 2024.
- ITEM 01.2-10 Refer to attached Sheet A501 DETAILS, dated 9 September 2024:
 - A. Sheet A-501 is hereby **revised and re-issued** in its entirety to add new detail sections.
 - Replace Sheet A-501 dated 2 August 2024 with attached revised Sheet A-501 dated 9 September 2024.
- ITEM 01.2-11 Refer to attached Sheet S-001 GENERAL NOTES, dated 9 September 2024:
 - A. Sheet S-001 is hereby **revised and re-issued** in its entirety to revise SOILS/FOUNDATION NOTE 3.
 - Replace Sheet S-001 dated 2 August 2024 with attached revised Sheet S-001 dated 9 September 2024.
- ITEM 01.2-12 Refer to attached Sheet SB102 SLAB PLAN, dated 9 September 2024:
 - A. Sheet SB102 is hereby revised and re-issued in its entirety to revise Slab Plan Note.
 - Replace Sheet SB102 dated 2 August 2024 with attached revised Sheet SB102 dated 9 September 2024.
- ITEM 01.2-13 Refer to attached Sheet SB506 FOUNDATION DETAILS, dated 9 September 2024:
 - A. Sheet SB506 is hereby revised and re-issued in its entirety to revise section details.
 - Replace Sheet SB506 dated 2 August 2024 with attached revised Sheet SB506 dated 9 September 2024.
- ITEM 01.2-14 Refer to attached Sheet SB507 FOUNDATION DETAILS, dated 9 September 2024:
 - A. Sheet SB507 is hereby **revised and re-issued** in its entirety to add new section details.
 - Replace Sheet SB507 dated 2 August 2024 with attached revised Sheet SB507 dated 9 September 2024.
- ITEM 01.2-15 Refer to attached Sheet SB508 FOUNDATION DETAILS, dated 9 September 2024:
 - A. Sheet SB508 is hereby **issued** in its entirety.
- ITEM 01.2-16 Refer to attached Sheet EG502 GROUNDING AND LIGHTNING PROTECTION DETAILS, dated 9 September 2024:
 - A. Sheet EG502 is hereby **revised and re-issued** in its entirety to remove static grounding receptacle plan view.
 - Replace Sheet EG502 dated 2 August 2024 with attached revised Sheet EG502 dated 9 September 2024.