Architects Design Group
AR94944

ADDENDUM #3

Name of Project: **Idaho Falls Community Policing Facility –**
Site plan, Main Building & Auxiliary Building
ADG Project Number: 1047

Issue Date: **March 17, 2022**
Architect of Record: **Architects Design Group, Inc.**
Assoc. Architect: **NBW Architects, P.A.**
Owner: **City of Idaho Falls, Idaho**
Subject: **Addendum #3 – Bid Issue clarifications**

This addendum is issued to clarify the original Drawings and Revise and Add to the Project Manual & Specifications and is hereby made a part of the Contract Documents.

RECEIPT OF THIS ADDENDUM SHALL BE ACKNOWLEDGED ON THE BID FORM.

PLEASE INSERT THIS ADDENDUM IN THE PROJECT MANUAL AND DRAWINGS.

Any proposals that do not include this signed addendum shall be considered Non-Responsive.

The following items are to be incorporated into the contract documents; all other provisions of the documents will remain unless specifically modified by this document.

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2. Project Manuals
3. Drawings

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1. ATTENTION ITEMS: These items are being called to your attention for information or clarification only and do not necessarily represent any changes in the bid documents:

General:

1. Bid Opening date is extended to Wednesday, March 23, 2022, at 2:00pm local time.
2. **Web based project management software:** Contractor can recommend software to be coordinated with owner for team use (no preference identified though Procore is utilized by the design team).

Architecture & Interiors clarifications:

3. *Question regarding door & frame STC ratings references:*
   Response: Refer to the description under door hardware sets in the specifications for doors with STC ratings and their assemblies. See Addendum #1, Spec Section 08 71 00 – 44 & 45.
4. *Question regarding door & frame ballistic rating references:*
   Response: Refer to the description under door hardware sets in the specifications for doors with ballistic ratings and their assemblies. See Addendum #1, Spec Section 08 71 00 – 35 & 36.
5. **FF&E Note:** High density mobile storage systems for evidence, narcotic storage, firearms storage oversized evidence storage, mobile record storage, non-sworn and sworn lockers is FF&E by owner, Basis of Design is SpaceSaver. Refer to A153 Equipment Schedule and A163 Furniture Schedule for responsibility clarifications (OPOI, OPCI, CPCI).

Electrical clarifications:

6. Occupancy Sensor type $OS1 does not required 0-10 Volt dimming conductors from the switch to the lights.

Technology questions & clarifications:

7. *The specification states that the integrator will have an office within 150 miles. Is this accurate?*
   Response: Specification says ‘ it is preferred to be within 150 miles. This is to ensure that service calls on completed system can be in a timely manner. Unless there are extenuating circumstances, TLC does not feel it is in the project’s best interest to remove this qualification.
8. *The specification requires an employee with AMX certification. Is this required? There is no AMX product.*
   Response: No. The installer on site doing the work should have a certification for the system being installed. Reference spec section 1.3, B and D.
9. Several products within the scope are end of life. How should these be dealt with?
   Response: Installer should use the Manufacturer’s recommended replacement product. If no such recommendation exists, provide recommendation as part of product data submittal.
10. *Who is responsible for providing floor boxes?*
    Response: Electrician typically, but that is a means and methods by GC. Consult with GC prior to purchasing.
11. *The line drawings show the touch panels connecting directly to the systems control processor and not the owner network. Is this appropriate? Neurilink would recommend the touch panels and processers linked through a VLAN or AV network for monitoring and maintenance.*
    Response: Intent of design was to minimize the AV system’s impact to the network. If you feel that the owner would be best served by providing a POE switch in lieu of injector for maintenance and expansion, TLC does not object.

12. *The specifications call for projectors and screens. These are not seen on any drawings. The training spaces are equipped with 2X2 video walls. Please advise.*
    Response: Follow drawings.
13. *The training spaces will not function as designed. There is a video matrix sending signal to NVX devices. The system will not function. Please advise.*
    Response: Unsure where this condition is seen. System is based on all-in-one room solutions and matrix switchers. Any NVX included in error. Please price the appropriate DM receiver/scaler.
14. *Displays in private offices and gym are not talked about within the specifications. Are these included in the AV scope?*
    Response: TV displays are owner provided owner installed. See sheet A-153.
15. Will the system monitoring be done with Crestron fusion or XIO?
    Response: No.
16. *Rooms 164 and 168 are not included in the line drawings. Please advise.*
    Response: TV displays are owner provided owner installed. See sheet A-153.
17. *What is the desired paging system? The specification speaks to IED and the drawings QSYS. Please advise.*
    Response: QSYS. QSYS Core 110F to act as paging core and DSP core.
18. *There are no inputs (microphone or music) attached to the input of the paging system. Please advise.*
    Response: Input to be done using VoIP and dial tone control.

2. PROJECT MANUALS: (Modify or Add Section to Contract Manual as noted below):

PROJECT MANUAL – OWNERS INSTRUCTIONS TO BIDDERS

- DOCUMENT 00 11 13 – ADVERTISEMENT FOR BIDS – **Modified:**
  - At 1.2A, Bid Date extended to **March 23, 2022**
  - At 1.3A, **"**No bids may be withdrawn for a period of **30 days…"**

PROJECT MANUALS, VOLUME 1 AND 2 PROJECT SPECIFICATIONS

- 00 00 00B - Table of Contents - **Modified:** "Revised ADD-03" for tracking; added " see ADD-03 narrative" to reference additional clarifications to the sections as noted below.
- 01 91 13 – General Commissioning Requirements – **Added.**
- 05 40 00 – Cold Formed Metal Framing **– Modified: Removed** P1.2B Shop Drawings.
- 07 22 00 – Roof Insulation – **Modified:** At P1.2A and P2.2, **added** "Cover Board"
- 07 42 13.23 – Metal Composite Material Panels – P2.2A1 Manufacturers **add** "d. Alfrex FR Metal Composite Material"
- 07 42 93 – Metal Soffit Panels – **DELETE** this section.
- 08 44 13 – Glazed Aluminum Curtain Walls – P2.2A-1 Manufacturers **add** "c. Tubelite".
- 09 65 16 – Resilient Sheet Flooring – P2.2A product **add** "4. Mondo, 5. Flexco ".
- 09 65 19 – Resilient Tile Flooring – P2.2A product **add** "4. Mannington Mills".
- 13 34 19 – Metal Building Systems – **Modified:** At P2.1A Manufacturers **add** 7. Alliance Steel Building Systems, 8. CECO"; At P2.7 Metal Wall and Liner Panels **added** to Products.

3. DRAWINGS: (Modified or Add Sheet to Contract Drawings as noted below):

CIVIL PACKAGE

- C.2.0 Overall Existing Conditions & Demolition – **Modified:** Clarified demolition items.

MAIN BUILDING

- A-002 Enlarged Site Plans – **Clarified:** metal screen wall location (see 35/A320 for additional information).
- A-011 Site Details – **Modified:** Added stainless steel bollard detail 2B; clarified 2A Bollard call-out.
- A-012 Site Details – **Modified**: At detail 07 Entrance Sign Detail, **remove** "backlit" lighting from the address lettering "701 Northgate Mile"
- A-101 Lower Floor Plan, Overall – **Modified:** Clarified P9 partition in Room 112.
- A-111 Reflected Ceiling Plan, Lower Level – **Modified:** added note for locker mechanical exhaust drywall shafts to be P8A froom top of lockers to underside of deck.
- A-162 Furniture Plan Upper – **Clarification**: Replaced (2) CG29A. Revised layout of desks CG10 and CG8.
- A-163 Furniture Schedule - **Clarification**: Revised CG29 quantity. Added CG29A.
- A-312 Exterior Wall Sections – **Clarification:** specialty ceiling note clarification
- A-320 Exterior Wall Sections – **Clarification:** wall section note clarification
- A-321 Exterior & Interior Wall Sections – **Clarification:** wall section note clarification
- A-330 Roof + Vertical Details – **Clarification:** wall detail note clarification
- A-332 Roof + vertical Details – **Clarification:** window header note clarification
- A-511 Window Details – **Modified:** window detail note clarifications
- A-521 Specialty Window Details – **Modified** to Hollow Metal window frame.
- A-603 Door Schedule / Stairs – Gate & Door Elevations – **Modified: G175 revised to STL.**

- ID-101 Finish Floor Plan, Level 1 - **Modified** to show sealed concrete on Stair 002 treads. **Modified** Floor Finish Legend to show added EF-2 floor finish. Modified the Vehicle Examination Bay to be EF-2. Added Floor Finish Transition Sections.
- ID-102 Finish Floor Plan, Level 1 Area A - **Modified** to show sealed concrete on Stair 002 treads. Modified Floor Finish Legend to show added EF-2 floor finish. Modified the Vehicle Examination Bay to be EF-2.
- ID-103 Finish Floor Plan, Level 1 Area B - **Modified** to show sealed concrete on Stair 002 treads. **Modified** Floor Finish Legend to show added EF-2 floor finish.
- ID-104 Finish Floor Plan, Level 2 - **Modified** to show sealed concrete on Stair 002 treads. **Modified** Floor Finish Legend to show added EF-2 floor finish. Added Floor Finish Transition Sections.
- ID-105 Finish Floor Plan, Level 2, Area A - **Modified** to show sealed concrete on Stair 002 treads. **Modified** Floor Finish Legend to show added EF-2 floor finish.
- ID-106 Finish Floor Plan, Level 2, Area B - **Modified** to show sealed concrete on Stair 002 treads. **Modified** Floor Finish Legend to show added EF-2 floor finish.
- ID-201 Interior Elevations - **Modified** Elevation #13 base to be EF-2.
- ID-400 Interior Finish Legend - **Modified** DR-1 Finish to be Textured Gloss to have AEON finish. **Modified** sealed concrete comments, to include stairs. **Removed** TR-2, added note that it is not used.
- ID-401 Interior Finish Legend - **Modified** to show the new Epoxy flooring and cove base, with the correct textures.
- ID-403 Interior Finish Schedule - **Modified** to show sealed concrete on Stair 002 treads and **modified** the base to be RB-2, added comment for Stair 002, to refer to page A-421 for stair details.

Modified Room Finish Schedule to show second epoxy flooring and base in the Vehicle Examination Bay, to be non-skid texture, not 2 clear coats.

- M-601 Mechanical Schedules – **Modified**: Added additional approved manufacturers for exhaust fans, louvers, unit heaters, air devices, energy recovery units, and duct heaters.
- P-601 Plumbing Schedules – **Modified**: Added additional approved manufacturers for expansion tank, water softener, and plumbing fixtures.

- E-001 Site Electrical Plan – **Modified:** Added Idaho Falls Power sectionalizing cabinet and fiber junction box.
- E-300 One- line Diagram – **Modified:** Changed feeder from XFMR to CT cabinet from 8 - 4" to 5 - 4" conduits.
- **Lighting Approved Alternates:**
  - Wattstopper Controls
  - Hubbell Controls

AUXILIARY BUILDING

- AB A-101 – **Modified:** Interior elevation marks and section marks updated
- AB A-301 – **Modified:** added metal liner panel
- AB A-303 – **Modified:** added metal liner panel
- AB A-310 – **Modified:** added metal liner panel
- AB A-311 – **Modified:** wall section notes updated as shown

END OF ADDENDUM #3

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DOCUMENT 00 1113 - ADVERTISEMENT FOR BIDS

1.1 PROJECT INFORMATION

A. Notice to Bidders: Qualified bidders may submit bids for project as described in this Document. Submit bids according to the Instructions to Bidders.

Regulatory Requirements: State of Idaho Public Works laws shall govern submittal, opening, and award of bids. Minimum bidder requirements include a Idaho Public Works License at time of bid.

B. Project Identification: Police Headquarters & Auxiliary Building for City of Idaho Falls, Idaho.

Project Location: West side of Northgate Mile; addressed as 775 Northgate Mile and 316 Elva St Idaho Falls, Idaho.

C. Owner: City of Idaho Falls, Idaho.

Owner's Representative: Chris Canfield, Assistant Public Works Director, 380 Constitution Way, P.O. Box 50220, Idaho Falls, Idaho 83405-0220, Telephone: (208) 612-8259, Cell: (208) 201-5695, Fax: (208) 612-8570, Email: ccanfield@idahofallsidaho.gov.

D. Associate Architect (local): NBW Architects, P.A., 990 John Adams Parkway, P.O. Box 2212, Idaho Falls, Idaho 83403. Telephone: 208-522-8779. Fax: 208-522-8785. Architect of Record: Architects Design Group, 333 N. Knowles Ave., Winter Park, FL 32789. Telephone: 407-647-1706. Fax: 407-605-5525.

E. Project Description:

Project consists of construction for a new 2 story police headquarters (main building) with workspace for patrol, forensics, interviews, climate-controlled evidence, vehicle inspections & storage including a sally port with K-9 unit. Staff amenities include physical agility, lockers, conference and meeting spaces, workspace, break areas and exterior courtyard. The building will consist of concrete masonry exterior, steel framing, insulated roofing, glazing and curtainwall entrance systems including concrete foundation, concrete floor slabs, complete HVAC, plumbing, electrical, lighting, AV, security, and information technology systems.

Project includes construction of a new 1 story pre-engineered metal building (auxiliary building) for vehicle storage and SWAT workspaces and storages. This building will include an insulated envelope, concrete foundation, concrete floor slab, concrete aprons, complete HVAC, plumbing, electrical, lighting, security and information technology systems.

Other project amenities included are a back-up generator, landscaping elements, equipment enclosures, outside storage building, secured perimeter access gates, open parking for staff and the public with provisions for future electric vehicle charging stations. Sitework to include water, sewer, gas, and technology systems. Project includes power service from source to the buildings.

Project cost range is anticipated to be under $20 million.

F. Construction Contract: Bids will be received for the following Work:

General Contract (all trades).

1.2 BID SUBMITTAL AND OPENING

A. Owner will receive sealed lump sum bids until the bid time and date at the location given below. Owner will consider bids prepared in compliance with the Instructions to Bidders issued by Owner, and delivered as follows:

Bid Date: **March ~~21~~ 23, 2022.**
Bid Time: **2:00 p.m.,** local time.
Location: Idaho Falls Public Works, 380 Constitution Way, Idaho Falls, Idaho 83402.
The opening and reading of the bids will be available through a live virtual meeting on March 21, 2022 at 2:00 p.m.

B. Bids will be thereafter publicly opened and read aloud.

1.3 BID SECURITY

A. Bid security shall be submitted with each bid in the amount of 5 percent of the bid amount. No bids may be withdrawn for a period of ~~45~~ **30 days** after opening of bids. Owner reserves the right to reject any and all bids and to waive informalities and irregularities.

1.4 PRE-BID MEETING

A. Prebid Meeting: A Prebid meeting for all bidders will be held via virtual meeting on Thursday February 24, 2022, at 2:00 **p.m.**, local time. Prospective prime bidders are requested to attend. To receive login credentials, please send bidders contact information to nbw@nbwarchitects.com or call NBW Architects at 208-522-8779 and provide the information.

1.5 DOCUMENTS

A. Printed Procurement and Contracting Documents: Obtain at cost on Thursday February 10, 2022, by contacting Architect. Documents will be provided to prime bidders only; only complete sets of documents will be issued.
Shipping: Additional shipping charges may apply.

B. Online Procurement and Contracting Documents: Prime Bidders will obtain access on Thursday, February 10, 2022, via website: https://nbwarchitects.com or contacting NBW Architects 208-522-8779. Online access to bid sets will be available at that time. It is the responsibility of the bidders to provide their contact information to nbw@nbwarchitects.com or call NBW Architects at 208-522-8779. The contact information is needed for all future updates and virtual meeting information.

C. Viewing Procurement and Contracting Documents: Contract documents will be available for on Thursday, February 10 , 2022, at the following locations below:
NBW Architects, P.A, 990 John Adams Parkway, Idaho Falls, ID 83401
https://nbwarchitects.com/

1.6 TIME OF COMPLETION [AND LIQUIDATED DAMAGES]

A. Successful bidder shall begin the Work on receipt of the Notice to Proceed and shall complete the Work within the Contract Time. Work is subject to liquidated damages.

1.7 BIDDER'S QUALIFICATIONS

A. Bidders must be properly licensed under the laws governing their respective trades and be able to obtain insurance and bonds required for the Work. A Performance Bond, separate Labor and Material Payment Bond, and Insurance in a form acceptable to Owner will be required of the successful Bidder.

1.8 NOTIFICATION

A. This Advertisement for Bids document is issued by City of Idaho Falls Public Works.

END OF DOCUMENT 00 1113

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Idaho Falls Police Department
Idaho Falls, ID
Addendum - 03

Note: Project Manual covers both buildings unless specifically noted: (Main Bldg.) or (Auxiliary Bldg.)

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PART 1 – GENERAL REQUIREMENTS

1.1 RELATED WORK

1.1.1 All other sections in Division 21, 22, and 23.
1.1.2 Specification Section 220800 – "General Commissioning Requirements"
1.1.3 Specification Section 260800 – "Electrical Systems Commissioning
1.1.4 Specification Section 230800 – "Mechanical Systems Commissioning"

1.2 COMMISSIONING AGENT OF RECORD

1.2.1 Company: The Commissioning Agent contracted directly with the Idaho Falls City will be UNVC a DBA of CMB Consultants LC. The contractors or any of their sub contractors are not responsible to hire the commissioning agent for this project.

1.2.2 Project Manager: Daniel Hansen will be the Project Manager throughout the entire commissioning process.

1.3 DESCRIPTION

1.3.1 The purpose of the commissioning process is to provide the Owner/operator of the facility with a high level of assurance that the mechanical and associated electrical systems have been installed in the prescribed manner and operate within the performance guidelines set in the design intent. The Commissioning Authority (CxA) will provide the Owner with an unbiased, objective view of the systems installation, operation, and performance. This process is not to take away or reduce the responsibility of the design professionals or installing contractors to provide a finished product. Commissioning is intended to enhance the quality of system start-up and aid in the orderly transfer of systems to beneficial use by the owner. The CxA will be a member of the construction team, cooperating and coordinating all commissioning activities with the design professionals, construction manager, contractors, subcontractors, manufacturers, and equipment suppliers.

1.4 SCOPE

1.4.1 Systems commissioning shall include a demonstration by the Contractor with the assistance of the CxA of each piece of equipment to comply with the Construction Documents (CD). The commissioning process will demonstrate that each piece of equipment is performing and operating per the CDs.

1.4.2 Systems Commissioning shall be conducted with representatives from the following entities (the required participants shall be confirmed with the commissioning agent prior to scheduling the commissioning).

1.4.2.1 General Contractor
1.4.2.2 Mechanical Contractor
1.4.2.3 BMS or ATC Contractor

1.4.2.4 Factory Authorized Service Personnel for all major pieces of equipment. This is not a sales representative but an authorized technician certified to work on the piece of equipment.
1.4.2.5 Water Treatment Contractor
1.4.2.6 Electrical Contractor
1.4.2.7 Test and Balance Contractor
1.4.2.8 Owner's Representative
1.4.2.9 Electrical Engineer
1.4.2.10 Mechanical Engineer
1.4.2.11 Architectural Team

1.4.3 Submittals

1.4.3.1 The CxA will need access to each submittal in Division 22, 23, and 26.

1.4.4 Action Log

1.4.4.1 An Action Log will be kept by the CxA. This log will identify issues, defects, improper installations, and deficiencies of the installation and design. The Action Log will have the issue, a potential resolution, the sub contractor responsible, the date the issue was found, and the CxA who found the issue.
1.4.4.2 The Action Log will be immediately addressed every week by the contractor. If an issue lags beyond four (4) weeks the CxA will request from the Owner a reduction in payment for services by the contractor.
1.4.4.3 When an item is completed and addressed by the contractor or sub contractor responsible, the party responsible shall sign off and deliver to the CxA for review. The sign off shall include how the contractor addressed the issue and the date in which the contractor addressed the issue. If the issue has not been addressed after re-inspection the contractor shall be liable for the CxA time and efforts as outlined later in this specification.

1.4.5 Construction Checklists, Pre Functional and Functional Testing Checklists, and Startup Checklists

1.4.5.1 The CxA will develop construction checklists that will be executed by the contractor in their spec division. The contractors and subcontractors shall review the checklists for compliance with the ability of their individual systems. If the contractor or subcontractors do not provide comments to the CxA then the CxA will assume their procedures will not harm nor deteriorate the individual systems. If a problem occurs during testing that causes a piece of equipment or system to malfunction, damage, or any other failure and the contractor or subcontractor has not in writing opposed such tests, then the contractor or subcontractor shall be liable for any damages and delays.
1.4.5.2 The contractor shall fill out checklists called Contractor Readiness checklists. These shall be delivered in the commissioning plan and shall be used to show the CxA that the contractor is ready for Functional Testing (FPT).
1.4.5.3 Startup Sheets shall be delivered to the CxA. The contractor responsible for the piece of equipment is also responsible for delivering those startup sheets to the CxA.

1.4.5.4 Pre-Functional testing shall be completed by the contractor. The forms will be created by the CxA.

1.4.5.5 Functional Testing shall be completed by the contractor. The forms will be created by the CxA.

1.4.5.6 Should any of the aforementioned requirements not be met on the date that the commissioning process commences and/or if deficiencies are observed during the commissioning process, the commissioning will be considered a failure and the deficiencies will be required to be remedied and then addressed in writing prior to requesting a date for re-commissioning. There will be no additional costs allowed to the Contractor for re-commissioning sessions as may be required to address issues that are found to be in non-compliance with the requirements of this specification. The contractor shall be responsible for the CxA additional time due to absence of the member as outlined later in this specification.

1.4.6 Current Facility Requirements and Operations and Maintenance Document

1.4.6.1 The contractors and subcontractors shall prepare a document that contains the following pieces of information. This document shall include the following:

1.4.6.1.1 A sequence of operations for the building
1.4.6.1.2 The building occupancy schedule
1.4.6.1.3 Equipment run-time schedules
1.4.6.1.4 Setpoints for all equipment
1.4.6.1.5 Set lighting levels throughout the building
1.4.6.1.6 Minimum outside air requirements
1.4.6.1.7 Any changes in schedules or setpoints for different seasons, days of the week, and times of day
1.4.6.1.8 A systems narrative describing the mechanical systems and equipment
1.4.6.1.9 A preventative maintenance plan for building equipment described in the systems narrative
1.4.6.1.10 The document shall be delivered to the CxA by the contractor in a Microsoft Word (.doc or .docx) format.

1.4.7 Systems Manual

1.4.7.1 The contractors and subcontractors shall prepare a document that contains the following pieces of information. This document shall include the following:

1.4.7.1.1 Construction record documents and specifications
1.4.7.1.2 Approved submittals
1.4.7.1.3 As-built drawings
1.4.7.1.4 As-built sequence of operation
1.4.7.1.5 Original setpoints for all systems commissioned
1.4.7.1.6 Recommended schedule for sensor recalibration
1.4.7.1.7 Equipment operations and maintenance manuals
1.4.7.1.8 Equipment preventive maintenance schedules
1.4.7.1.9 Confirmation of completed training for the Owner and occupants

1.5 SYSTEMS TO BE COMMISSIONED

1.5.1 This list is not intended to be exhaustive. All Divisions 22, 23, and 26 equipment and any equipment, piping, balancing, controls, etc. that are defined in the entire cumulative sections of Divisions 22, 23, and 26 will go through commissioning. The list below is a representative sample of items that are typically commissioned.

1.5.1.1 All electrical systems including power (emergency and normal), lighting controls, fire alarm, security, and audio/visual.
1.5.1.2 All building HVAC systems and controls.
1.5.1.3 All building plumbing systems.

1.6 COORDINATION

1.6.1 The CxA shall receive a copy of all construction documents, addenda, change orders, and appropriate approved submittals and shop drawings directly from the Contractor.

1.6.2 The CxA will disseminate written information and documents to all responsible parties relative to the nature and extent of the communication.

1.6.3 The CxA is primarily responsible to the Owner, and as such, will regularly apprise the Architect, the Contractor, and the Owner of progress, pending problems and/or disputes, and will provide regular status reports on progress with each system. Any potential change in the contractual and/or financial obligations of the Owner (credits, change orders, schedule changes, etc.) shall be identified and quantified as soon as possible.

1.6.4 The CxA will coordinate the schedule of commissioning activities with the construction schedule. It is possible that some procedures will be completed before an entire system is completed.

1.7 SCHEDULE

1.7.1 Final Commissioning will not commence on the individual pieces of equipment, Test and Balance, Controls, and other mechanical systems until the Contractor Readiness Forms are delivered to the CxA.

1.7.2 Pre-Functional Commissioning will commence during the progress of the project. Contractor Readiness checklists do not typically have to be filled out for the contractor to check out these systems.

1.7.3 Completion and acceptance of systems commissioning shall be a condition of Substantial Completion. The building shall be considered 'not ready to utilize for its intended use' until such time that systems commissioning is successfully completed.

1.7.3.1 In the event that Substantial Completion is given by the Owner to the Contractor and Commissioning is not complete, then the Warranty period for all pieces of mechanical systems shall not begin until the CxA gives their final Commissioning Report.

1.8 MISCELLANEOUS CONTRACTOR RESPONSIBILITIES

1.8.1 Means and Methods: The contractor is solely responsible for the means and methods of construction. While the CxA will assist in construction, the final responsibility rests solely on the General and Installation Contractor.

1.8.2 Special Tools and Equipment: While the CxA retains tools in accordance with NEBB BSC Procedural Standards, any specialized tools to test the equipment shall be provided to the CxA and used by the Contractor to prove compliance with the Construction Documents.

PART 2 – PRODUCTS

(NOT USED)

PART 3 – EXECUTION

3.1 CONTRACTOR READINESS CHECKLISTS

3.1.1 Contractor Readiness Checklists (CRC) will be delivered by the CxA to the contracting team for the contracting team to fill out. The purpose of the CRCs is to inform the CxA of the readiness of the contractor to begin Functional Testing on a particular system.

3.1.2 The CxA will not begin 20% of Sequence testing Functional Testing of the system or any equipment until the CRCs are received. While some systems can be tested without a complete system, the CxA will have the final say on which can and cannot begin Functional Testing based on the completeness of the project.

3.1.3 If the contractor delivers the CRC and the CxA finds the system is not functional, then the contractor shall be liable for cost incurred by the CxA.

3.2 PRE FUNCTIONAL CHECKLISTS

3.2.1 The Pre Functional Checklists will be developed by the CxA and delivered to the contruction team.

3.2.2 The Pre Functional Checklists shall be reviewed by the contractors and subcontractors and will be executed by the contractor.

3.2.3 The CxA will review 100% of mechanical, plumbing, and electrical systems checklists upon contractor completing them.

3.3 FUNCTIONAL PERFORMANCE CHECKLISTS

3.3.1 The contractor will execute Functional Performance Testing checklists that the CxA creates. The CxA will execute 20% of the sequence of operations testing for the HVAC systems.

3.3.2 The CxA will develop and document the commissioning procedures to be used. These will be delivered to the contractor and are called the Procedural Standards. Included are performance checklists and performance test data sheets for each system based on actual system configuration. These procedures shall be reviewed by the appropriate contractors and subcontractors for technical depth, clarity of documentation, and completeness. Emphasis will be placed on testing procedures that will determine actual system performance and compliance with the design intent.

3.3.3 The CxA will determine the acceptance procedures for each system within the Divisions as required. The acceptance procedures will incorporate the commissioning standards and successful testing results as referred to throughout the specifications.

3.3.4 The appropriate contractor and vendor(s) shall be informed of what tests are to be performed and the expected results. Whereas some test results and interpretations may not become evident until the actual tests are performed, all parties shall have a reasonable understanding of the requirements.

3.3.5 Acceptance procedures will confirm the performance of systems to the extent of the design intent. When a system is accepted, the Owner will be assured that the system is complete, works as intended, is correctly documented, and operator training has been performed.

3.3.6 During the functional performance testing, the BMS or ATC contractor shall be in attendance to set up the CxA on the controls system and be in attendance throughout the Sequence of Operation checks.

3.3.7 The CxA will review 100% and test 20% of all mechanical sequences.

3.4 TRENDING

3.4.1 A minimum Four (4) weeks of “Clean” trending (no mechanical, software, control loop or Building Management System “BMS” failures) shall be provided on “Any” or “All” BMS systems and points as directed by the CxA. It is intended that the clean trending be completed by Substantial Completion. Trends shall be coincident at 15 minute intervals with a cache able to handle four weeks of trending on a rollover basis.

3.4.2 Trending shall be submitted in a graphical Microsoft 2020 Format including all data submitted in the Excel workbook.

3.4.2.1 ALL points shall be trended and submitted in the above format and as outlined by the CxA. Contractor shall submit during submittal process what shall be trended per each graph to show functionality.

3.4.3 If the BMS contractor has the ability to setup the trends in their system and the CxA is allowed full access and the graphs and trends are able to come through on the CxA computer from a remote site, then paragraph 3.11.3 shall be fulfilled through this paragraph. The CxA will review the trends after the four weeks of clean trending.

3.5 OPERATION AND MAINTENANCE MANUALS

3.5.1 The contractor responsible for Mechanical O&Ms shall deliver electronic copies of those O&M to the CxA at 50% billable completion of installed mechanical systems. The O&M manuals shall include installation requirements and maintenance requirements.

3.5.1.1 The 50% mechanical billable draw will be held up by the Owner at the request of the CxA if the O&M Manuals are not delivered.

3.5.2 The final O&M Manual will be reviewed by the CxA before delivery to the Owner. Any deficiencies will be noted and the contractor shall remedy before final delivery.

3.5.3 The final O&M must be delivered to the Owner before training shall commence and it shall be one of the requirements for Substantial Completion.

3.6 REPEATED WORK, TESTING, AND REVIEWS

3.6.1 Contractor shall, at no additional cost to the Owner, repeat the complete verification test procedure for each test for which acceptable results are not achieved. Repeat tests until acceptable results are achieved.

3.6.2 Contractor shall compensate the Owner for costs incurred as the result of tests, reviews, or inspections repeated. This includes the costs for the CxA, Design Architect, Design Engineers, and Owner's personnel for billed costs (including travel expenses) for the extraordinary participation of the Owner's Representative, Architect, CxA or Owner's staff.

3.6.3 All retesting, inspection, or review of equipment or re-reviewing of startup sheets or re-reviewing of test and balance or re-reviewing of controls or re-reviewing of submittals shall be billed at an hourly rate of $250 per hour with a minimum of 6 hours billed per session.

END OF SECTION

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SECTION 05 40 00 - COLD-FORMED METAL FRAMING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Exterior non-load-bearing wall framing.

1.2 ACTION SUBMITTALS

A. Product Data: For the following:

1. Cold-formed steel framing materials.
2. Exterior non-load-bearing wall framing.
3. Vertical deflection clips.
4. Single deflection track.
5. Double deflection track.
6. Drift clips.
7. Post-installed anchors.
8. Power-actuated anchors.

~~B. Shop Drawings:~~

~~1. Include layout, spacings, sizes, thicknesses, and types of cold-formed steel framing; fabrication; and fastening and anchorage details, including mechanical fasteners.~~
~~2. Indicate reinforcing channels, opening framing, supplemental framing, strapping, bracing, bridging, splices, accessories, connection details, and attachment to adjoining work.~~

1.3 INFORMATIONAL SUBMITTALS

1.4 QUALITY ASSURANCE

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Cold-Formed Steel Framing Standards: Unless more stringent requirements are indicated, framing complies with AISI S100 and AISI S240.

2.2 COLD-FORMED STEEL FRAMING MATERIALS

A. Framing Members, General: Comply with for conditions indicated.

B. Steel Sheet for Vertical Deflection Clips: ASTM A653/A653M, structural steel, zinc coated, of grade and coating as follows:

1. Grade: 33 .
2. Coating: G60 .

2.3 EXTERIOR NON-LOAD-BEARING WALL FRAMING

A. Steel Studs: Manufacturer's standard C-shaped steel studs, of web depths indicated, punched, with stiffened flanges, and as follows:

1. Minimum Base-Metal Thickness: 0.0329 inch .
2. Flange Width: 1-5/8 inches .

B. Steel Track: Manufacturer's standard U-shaped steel track, of web depths indicated, unpunched, with unstiffened flanges, and matching minimum base-metal thickness of steel studs.

C. Vertical Deflection Clips, Exterior: Manufacturer's standard bypass clips, capable of accommodating upward and downward vertical displacement of primary structure through positive mechanical attachment to stud web.

1. Product as indicated in the drawings, or equivalent as approved.

2.4 FRAMING ACCESSORIES

A. Provide accessories of manufacturer's standard thickness and configuration, unless otherwise indicated.

2.5 ANCHORS, CLIPS, AND FASTENERS

A. Steel Shapes and Clips: ASTM A36/A36M, zinc coated by hot-dip process according to ASTM A123/A123M.

B. Anchor Bolts: ASTM F1554, Grade 36 , threaded carbon-steel headless, hooked bolts, carbon-steel nuts, and flat, hardened-steel washers; zinc coated by hot-dip process according to ASTM A153/A153M, Class C .

C. Post-Installed Anchors: Fastener systems with bolts of same basic metal as fastened metal, if visible, unless otherwise indicated; with working capacity greater than or equal to the design load, according to an evaluation report acceptable to authorities having jurisdiction, based on ICC-ES AC58 or ICC-ES AC308 as appropriate for the substrate.

1. Uses: Securing cold-formed steel framing to structure.
2. Type: adhesive anchor.
3. Material for Interior Locations: Carbon-steel components zinc plated to comply with ASTM B633 or ASTM F1941, Class Fe/Zn 5, unless otherwise indicated.

D. Power-Actuated Anchors: Fastener systems with working capacity greater than or equal to the design load, according to an evaluation report acceptable to authorities having jurisdiction, based on ICC-ES AC70.

E. Mechanical Fasteners: ASTM C1513, corrosion-resistant-coated, self-drilling, self-tapping, steel drill screws.

1. Head Type: Low-profile head beneath sheathing; manufacturer's standard elsewhere.

2.6 MISCELLANEOUS MATERIALS

PART 3 - EXECUTION

3.1 PREPARATION

A. Install load-bearing shims or grout between the underside of load-bearing wall bottom track and the top of foundation wall or slab at locations with a gap larger than 1/4 inch to ensure a uniform bearing surface on supporting concrete or masonry construction.

B. Install sill sealer gasket at the underside of wall bottom track or rim track and at the top of foundation wall or slab at stud or joist locations.

3.2 INSTALLATION, GENERAL

A. Cold-formed steel framing may be shop or field fabricated for installation, or it may be field assembled.

B. Install cold-formed steel framing according to AISI S200, AISI S202, and manufacturer's written instructions unless more stringent requirements are indicated.

C. Install cold-formed steel framing and accessories plumb, square, and true to line, and with connections securely fastened.

D. Install framing members in one-piece lengths unless splice connections are indicated for track or tension members.

E. Install temporary bracing and supports to secure framing and support loads equal to those for which structure was designed. Maintain braces and supports in place, undisturbed, until entire integrated supporting structure has been completed and permanent connections to framing are secured.

F. Do not bridge building expansion joints with cold-formed steel framing. Independently frame both sides of joints.

G. Install insulation, specified in Section 07 21 00 "Thermal Insulation," in framing-assembly members, such as headers, sills, boxed joists, and multiple studs at openings, that are inaccessible on completion of framing work.

H. Fasten hole-reinforcing plate over web penetrations that exceed size of manufacturer's approved or standard punched openings.

3.3 INSTALLATION OF INTERIOR NON-LOAD-BEARING WALL FRAMING

A. Install continuous tracks sized to match studs. Align tracks accurately and securely anchor to supporting structure.

B. Fasten both flanges of studs to top and bottom track unless otherwise indicated. Space studs as follows:

1. Stud Spacing: 16 inches unless indicated otherwise on Drawings. . 16.

C. Set studs plumb, except as needed for diagonal bracing or required for nonplumb walls or warped surfaces and similar requirements.

D. Isolate non-load-bearing steel framing from building structure to prevent transfer of vertical loads while providing lateral support.

1. Install single deep-leg deflection tracks and anchor to building structure.
2. Install double deep-leg deflection tracks and anchor outer track to building structure.
3. Connect vertical deflection clips to studs and anchor to building structure.
4. Connect drift clips to cold-formed steel metal framing and anchor to building structure.

E. Install horizontal bridging in wall studs, spaced vertically in rows indicated on Shop Drawings but not more than 48 inches apart. Fasten at each stud intersection.

F. Install miscellaneous framing and connections, including stud kickers, web stiffeners, clip angles, continuous angles, anchors, and fasteners, to provide a complete and stable wall-framing system.

3.4 INSTALLATION TOLERANCES

A. Install cold-formed steel framing level, plumb, and true to line to a maximum allowable tolerance variation of 1/8 inch in 10 feet and as follows:

1. Space individual framing members no more than plus or minus 1/8 inch from plan location. Cumulative error are not to exceed minimum fastening requirements of sheathing or other finishing materials.

3.5 REPAIRS

A. Galvanizing Repairs: Prepare and repair damaged galvanized coatings on fabricated and installed cold-formed steel framing with galvanized repair paint according to ASTM A780/A780M and manufacturer's written instructions.

END OF SECTION 05 40 00

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SECTION 07 22 00 - ROOF INSULATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Provide labor, materials, and equipment necessary for complete installation of roof insulation for roofing as indicated on the Drawings and specified herein. Specification includes the following:

1. Roof insulation.
2. **Cover Board.**

1.3 SUBMITTALS

A. Product data.

1. Roof insulation
2. Fasteners

B. Shop Drawings: Include plans, sections, details, and attachments to other Work.

1. Layout and thickness of insulation.
2. Insulation fastening patterns for corner, perimeter, and field-of-roof locations.

1.4 QUALITY ASSURANCE

A. Preinstallation Conference: Conduct conference at the Project site.

B. Roof system shall be designed to meet wind-loading requirements for Building Code with the Supplement. Refer to Structural Drawings for wind velocity and “Importance Factor” requirements.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver products in manufacturer's original packaging, dry, undamaged, with seals and labels intact.

B. Protect roof insulation materials from physical damage and from deterioration by sunlight, moisture, soiling, and other sources. Store in a dry location. Comply with insulation manufacturer's written instructions for handling, storing, and protecting during installation.

1.6 WARRANTY

A. Insulation shall be included as a covered component of the roofing warranty.

1. Refer to section 07 54 19 “Polyvinyl-Chloride (PVC) Roofing,” for warranty requirements.

PART 2 - PRODUCTS

2.1 MATERIALS

A. General: Preformed roof insulation boards from manufacturer's standard sizes suitable for application, of thicknesses indicated and that produce FM Global-approved roof insulation.

B. Polyisocyanurate Board Insulation: ASTM C1289, Type II, Class 1, Grade 3, felt or glass-fiber mat facer on both major surfaces.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

a. Carlisle SynTec Incorporated.
b. Firestone Building Products.
c. GAF.
d. Johns Manville; a Berkshire Hathaway company.

2. Total LTTR Minimum R-value: As indicated.
3. Compressive Strength: 25 pounds per square inch minimum.
4. Board Size: 4’ x 8’ maximum

C. Tapered Insulation: Provide factory-tapered insulation boards fabricated to slope of 1/4 inch per 12 inches unless otherwise indicated.

D. Provide preformed saddles, crickets, tapered edge strips, and other insulation shapes where indicated for sloping to drain. Fabricate to slopes indicated.

E. Crickets shall have a minimum slope of 1/2 inch per 12 inches.

F. Fasteners: Metal fasteners and the insulation shall be approved by the roofing manufacturer to assure that required conditions are met to provide a manufacturer's roof warranty. The type of fastener shall be appropriate for the substrate to achieve maximum withdraw and anti-corrosion characteristics. The manufacturer approved fasteners shall also meet the following requirements:

1. FM 4470 SPRI Corrosion Test Procedure for Roofing Fasteners. To pass, the fasteners shall not accumulate more that 15 percent red rust after the "required number cycles" in the Kesternich cabinet.

a. The required number of cycles is as currently recommended by FM and SPRI, but in no case shall it be less than 15.

2.2 INSULATION ACCESSORIES

A. General: Roof insulation accessories recommended by insulation manufacturer for intended use and compatibility with roofing.

B. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Global 4470, designed for fastening roof insulation to substrate, and acceptable to roofing system manufacturer.

C. Insulation Adhesive: Insulation manufacturer's recommended adhesive formulated to attach roof insulation to another insulation layer.

1. Modified asphaltic, asbestos-free, cold-applied adhesive.
2. Bead-applied, low-rise, one-component or multicomponent urethane adhesive.
3. Full-spread spray-applied, low-rise, two-component urethane adhesive.

D. Cover Board: ASTM C1177/C1177M, glass-mat, water-resistant gypsum board or ASTM C1278/C1278M fiber-reinforced gypsum board.

1. 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:

a. Georgia-Pacific Gypsum LLC.
b. National Gypsum Company.
c. USG Corporation.

2. Thickness: 1/2-Inch.
3. Surface Finish: Unprimed.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements and other conditions affecting performance of the Work:

1. Verify that wood blocking, curbs, and nailers are securely anchored to roof deck at penetrations and terminations and that nailers match thicknesses of insulation.

3.2 INSULATION INSTALLATION

A. Coordinate installing roofing system components so insulation is not exposed to precipitation or left exposed at the end of the workday.

B. Comply with insulation manufacturer's instructions and recommendations for the handling, installation, and bonding or anchorage or insulation to substrate.

C. Installation Over Metal Decking:

1. Install base layer of insulation with end joints staggered not less than 12 inches in adjacent rows and with long joints continuous at right angle to flutes of decking.

a. Locate end joints over crests of decking.
b. Where installing composite and noncomposite insulation in two or more layers, install noncomposite board insulation for bottom layer and intermediate layers, if applicable, and install composite board insulation for top layer.
c. Trim insulation neatly to fit around penetrations and projections, and to fit tight to intersecting sloping roof decks.
d. Make joints between adjacent insulation boards not more than 1/4 inch in width.
e. At internal roof drains, slope insulation to create a square drain sump with each side equal to the diameter of the drain bowl plus 24 inches.

1) Trim insulation so that water flow is unrestricted.

f. Fill gaps exceeding 1/4 inch with insulation.
g. Cut and fit insulation within 1/4 inch of nailers, projections, and penetrations.
h. Loosely lay base layer of insulation units over substrate.
i. Mechanically attach base layer of insulation using mechanical fasteners specifically designed and sized for fastening specified board-type roof insulation to metal decks.

1) Fasten insulation to resist specified uplift pressure at corners, perimeter, and field of roof.

2. Install upper layers of insulation and tapered insulation with joints of each layer offset not less than 12 inches from previous layer of insulation.

a. Staggered end joints within each layer not less than 24 inches in adjacent rows.
b. Install with long joints continuous and with end joints staggered not less than 12 inches in adjacent rows.
c. Trim insulation neatly to fit around penetrations and projections, and to fit tight to intersecting sloping roof decks.
d. Make joints between adjacent insulation boards not more than 1/4 inch in width.
e. At internal roof drains, slope insulation to create a square drain sump with each side equal to the diameter of the drain bowl plus 24 inches.

    1) Trim insulation so that water flow is unrestricted.

f. Fill gaps exceeding 1/4 inch with insulation.
g. Cut and fit insulation within 1/4 inch of nailers, projections, and penetrations.
h. Loosely lay each layer of insulation units over substrate.
i. Adhere each layer of insulation to substrate using adhesive according to Requirements of the Building Code:

    1) Set each layer of insulation in ribbons of bead-applied insulation adhesive, firmly pressing and maintaining insulation in place.
    2) Set each layer of insulation in a uniform coverage of full-spread insulation adhesive, firmly pressing and maintaining insulation in place.

3.3 INSTALLATION OF COVER BOARDS

A. Install cover boards over insulation with long joints in continuous straight lines with end joints staggered between rows. Offset joints of insulation below a minimum of 6 inches in each direction.

1. Trim cover board neatly to fit around penetrations and projections, and to fit tight to intersecting sloping roof decks.
2. At internal roof drains, conform to slope of drain sump.

a. Trim cover board so that water flow is unrestricted.

3. Cut and fit cover board tight to nailers, projections, and penetrations.
4. Adhere cover board to substrate using adhesive as required by the Building Code, as follows:

a. Set cover board in a uniform coverage of full-spread insulation adhesive, firmly pressing and maintaining insulation in place.

~~3.3~~**3.4** PROTECTING AND CLEANING

A. Correct deficiencies in or remove insulation that does not comply with requirements, repair substrates, and repair or reinstall insulation to a condition free of damage and deterioration prior to installation of roofing.

END OF SECTION 07 22 00

SECTION 13 34 19 - METAL BUILDING SYSTEMS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:

1. Structural-steel framing.
2. Foamed-insulation-core metal wall panels.
3. Metal roof panels.
4. Metal wall panels.
5. Thermal insulation.
6. Accessories.

1.3 DEFINITIONS

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

1.4 COORDINATION

A. Coordinate sizes and locations of concrete foundations and casting of anchor-rod inserts into foundation walls and footings. Anchor rod installation, concrete, reinforcement, and formwork requirements are specified in Section 03 30 00 "Cast-in-Place Concrete."

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

1.5 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1. Review methods and procedures related to metal building systems including, but not limited to, the following:

a. Condition of foundations and other preparatory work performed by other trades.
b. Structural load limitations.
c. Construction schedule. Verify availability of materials and erector's personnel, equipment, and facilities needed to make progress and avoid delays.
d. Required tests, inspections, and certifications.
e. Unfavorable weather and forecasted weather conditions and impact on construction schedule.

2. Review methods and procedures related to metal roof panel assemblies including, but not limited to, the following:

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

3. Review methods and procedures related to metal wall panel assemblies including, but not limited to, the following:

a. Compliance with requirements for support conditions, including alignment between and attachment to structural members.
b. Structural limitations of girts and columns during and after wall panel installation.
c. Flashings, special siding details, wall penetrations, openings, and condition of other construction that will affect metal wall panels.
d. Temporary protection requirements for metal wall panel assembly during and after installation.
e. Wall observation and repair after metal wall panel installation.

1.6 ACTION SUBMITTALS

A. Product Data: For each type of metal building system component.

1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for the following:

a. Foamed-insulation-core metal wall panels.
b. Thermal insulation and vapor-retarder facings.

B. Shop Drawings: Indicate components by others. Include full building plan, elevations, sections, details and the following:

1. Anchor-Rod Plans: Submit anchor-rod plans and templates before foundation work begins. Include location, diameter, and minimum required projection of anchor rods required to attach metal building to foundation. Indicate column reactions at each location.
2. Structural-Framing Drawings: Show complete fabrication of primary and secondary framing; include provisions for openings. Indicate welds and bolted connections, distinguishing between shop and field applications. Include transverse cross-sections.
3. Metal Roof and Wall Panel Layout Drawings: Show layouts of panels including methods of support. Include details of edge conditions, joints, panel profiles, corners, anchorages, clip spacing, trim, flashings, closures, and special details. Distinguish between factory- and field-assembled work; show locations of exposed fasteners.

    a. Show roof-mounted items including roof hatches, equipment supports, pipe supports and penetrations, lighting fixtures, and items mounted on roof curbs.
    b. Show wall-mounted items including personnel doors, vehicular doors, windows, louvers, and lighting fixtures.

4. Accessory Drawings: Include details of the following items, at a scale of not less than 1-1/2 inches per 12 inches:

    a. Flashing and trim.
    b. Gutters.
    c. Downspouts.

C. Samples for Initial Selection: For units with factory-applied finishes.

D. Samples for Verification: For the following products:

1. Panels: Nominal 12 inches long by actual panel width. Include fasteners, closures, and other exposed panel accessories.
2. Flashing and Trim: Nominal 12 inches long. Include fasteners and other exposed accessories.
3. Vapor-Retarder Facings: Nominal 6-inch-square Samples.
4. Accessories: Nominal 12-inch-long Samples for each type of accessory.

E. Delegated Design Submittals: For metal building systems.

1. Include analysis data indicating compliance with performance requirements and design data signed and sealed by the qualified professional engineer responsible for their preparation.

1.7 INFORMATIONAL SUBMITTALS

A. Qualification Data: For erector, manufacturer, and land surveyor.

B. Welding certificates.

C. Letter of Design Certification: Signed and sealed by a qualified professional engineer. Include the following:

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

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

E. Material Test Reports: For each of the following products:

1. Structural steel including chemical and physical properties.
2. Bolts, nuts, and washers including mechanical properties and chemical analysis.
3. Tension-control, high-strength, bolt-nut-washer assemblies.
4. Shop primers.
5. Nonshrink grout.

F. Source quality-control reports.

G. Field quality-control reports.

H. Surveys: Show final elevations and locations of major members. Indicate discrepancies between actual installation and the Contract Documents. Have surveyor who performed surveys certify their accuracy.

I. Sample Warranties: For special warranties.

1.8 CLOSEOUT SUBMITTALS

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

1.9 QUALITY ASSURANCE

A. Manufacturer Qualifications: A qualified manufacturer.

1. Accreditation: Manufacturer's facility accredited according to IAS AC472, "Accreditation Criteria for Inspection Programs for Manufacturers of Metal Building Systems."
2. Engineering Responsibility: Preparation of comprehensive engineering analysis and Shop Drawings by a professional engineer who is legally qualified to practice in jurisdiction where Project is located.

B. Erector Qualifications: An experienced erector who specializes in erecting and installing work similar in material, design, and extent to that indicated for this Project and who is acceptable to manufacturer.

C. Welding Qualifications: Qualify procedures and personnel according to the following:

1. AWS D1.1/D1.1M, "Structural Welding Code - Steel."
2. AWS D1.3, "Structural Welding Code - Sheet Steel."

D. Land Surveyor Qualifications: A professional land surveyor who practices in jurisdiction where Project is located and who is experienced in providing surveying services of the kind indicated.

E. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for materials and execution.

1. Build mockups for typical wall metal panel including accessories.

a. Size: 48 inches long by 48 inches.

2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.

1.10 DELIVERY, STORAGE, AND HANDLING

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

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

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

D. Protect foam-plastic insulation as follows:

1. Do not expose to sunlight, except to extent necessary for period of installation and concealment.

2. Protect against ignition at all times. Do not deliver foam-plastic insulation materials to Project site before installation time.
3. Complete installation and concealment of foam-plastic materials as rapidly as possible in each area of construction.

1.11 FIELD CONDITIONS

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

1.12 WARRANTY

A. Special Warranty on Metal Panel Finishes: Manufacturer agrees to repair finish or replace metal panels that show evidence of deterioration of factory-applied finishes within specified warranty period.

1. Exposed Panel Finish: Deterioration includes, but is not limited to, the following:

a. Color fading more than 5 Hunter units when tested according to ASTM D2244.
b. Chalking in excess of a No. 8 rating when tested according to ASTM D4214.
c. Cracking, checking, peeling, or failure of paint to adhere to bare metal.

2. Finish Warranty Period: 20 years from date of Substantial Completion.

B. Special Weathertightness Warranty for Standing-Seam Metal Roof Panels: Manufacturer agrees to repair or replace standing-seam metal roof panel assemblies that leak or otherwise fail to remain weathertight within specified warranty period.

1. Warranty Period: 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. American Buildings Company; a Nucor Company.
2. Butler Manufacturing Company; a division of BlueScope Buildings North America, Inc.
~~3. Dean Steel Buildings, Inc.~~
~~4. Trident Building Systems, Inc.~~

3. **Alliance Steel, Inc.**
4. **Ceco Building Systems; part of the Cornerstone Building Brands.**
5. Varco-Pruden Buildings; a division of BlueScope Buildings North America, Inc.
6. Behlen Building Systems.

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

2.2 SYSTEM DESCRIPTION

A. Provide a complete, integrated set of mutually dependent components and assemblies that form a metal building system capable of withstanding structural and other loads, thermally induced movement, and exposure to weather without failure or infiltration of water into building interior.

B. Primary-Frame Type:

1. Rigid Clear Span: Solid-member, structural-framing system without interior columns.

C. End-Wall Framing:

1. Manufacturer's standard, for buildings not required to be expandable, consisting of primary frame, capable of supporting one-half of a bay design load, and end-wall columns.

D. Secondary-Frame Type: Manufacturer's standard purlins and joists and exterior-framed (bypass) girts.

E. Eave Height: As indicated on the Drawings.

F. Bay Spacing: As indicated on Drawings.

G. Roof Slope: As indicated on Drawings.

H. Roof System: Standing-seam, vertical-rib, metal roof panels.

I. Exterior Wall System: Concealed-fastener, flush-profile, foamed-insulation-core metal wall panels.

J. Exterior Wall System: Concealed-fastener, flush-profile, metal wall panels.

2.3 PERFORMANCE REQUIREMENTS

A. Delegated Design: Engage a qualified professional engineer to design metal building, slab and foundation systems.

B. Structural Performance: Metal building systems to withstand the effects of gravity loads and the following loads and stresses within limits and under conditions indicated according to procedures in MBMA's "Metal Building Systems Manual."

1. Design Loads: As indicated on Drawings.
2. Deflection and Drift Limits:

a. Design metal building system assemblies to withstand serviceability design loads without exceeding deflections and drift limits recommended in AISC Steel Design Guide No. 3 "Serviceability Design Considerations for Steel Buildings."
b. No greater than the following:

1) Purlins and Rafters: Vertical deflection of 1/240 of the span.
2) Girts: Horizontal deflection of 1/120 of the span.
3) Metal Roof Panels: Vertical deflection of 1/240 of the span.
4) Metal Wall Panels: Horizontal deflection of 1/180 of the span.
5) Design secondary-framing system to accommodate deflection of primary framing and construction tolerances, and to maintain clearances at openings.
6) Lateral Drift: Maximum of 1/100 of the building height.

C. Seismic Performance: Metal building system to withstand the effects of earthquake motions determined according to ASCE/SEI 7.

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

1. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.

E. Fire-Resistance Ratings: Where assemblies are indicated to have a fire-resistance rating, provide metal panel assemblies identical to those of assemblies tested for fire resistance per ASTM E119 or ASTM E108 by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.

1. Indicate design designations from UL's "Fire Resistance Directory," FM Global's "Approval Guide," or from the listings of another qualified testing agency.

F. Fire Propagation Characteristics: Exterior wall assemblies containing foam plastics pass NFPA 285 fire test.

G. Structural Performance for Metal Roof and Wall Panels: Provide metal panel systems capable of withstanding the effects of the following loads, based on testing according to ASTM E1592:

1. Wind Loads: As indicated on Drawings.

H. Air Infiltration for Metal Roof Panels: Air leakage of not more than 0.06 cfm/sq. ft. when tested according to ASTM E1680 or ASTM E283 at the following test-pressure difference:

1. Test-Pressure Difference: 6.24 lbf/sq. ft..

I. Air Infiltration for Metal Wall Panels: Air leakage of not more than 0.06 cfm/sq. ft. when tested according to ASTM E283 at the following test-pressure difference:

1. Test-Pressure Difference: 6.24 lbf/sq. ft..

J. Water Penetration for Metal Roof Panels: No water penetration when tested according to ASTM E1646 or ASTM E331 at the following test-pressure difference:

1. Test-Pressure Difference: 6.24 lbf/sq. ft..

K. Water Penetration for Metal Wall Panels: No water penetration when tested according to ASTM E331 at the following test-pressure difference:

1. Test-Pressure Difference: 6.24 lbf/sq. ft..

2.4 STRUCTURAL-STEEL FRAMING

A. Structural Steel: Comply with AISC 360, "Specification for Structural Steel Buildings."

B. Bolted Connections: Comply with RCSC's "Specification for Structural Joints Using High-Strength Bolts."

C. Cold-Formed Steel: Comply with AISI's "North American Specification for the Design of Cold-Formed Steel Structural Members" for design requirements and allowable stresses.

D. Primary Framing: Manufacturer's standard primary-framing system, designed to withstand required loads and specified requirements. Primary framing includes transverse and lean-to frames; rafters, rake, and canopy beams; sidewall, intermediate, end-wall, and corner columns; and wind bracing.

1. General: Provide frames with attachment plates, bearing plates, and splice members. Factory drill for field-bolted assembly. Provide frame span and spacing indicated.

a. Slight variations in span and spacing may be acceptable if necessary to comply with manufacturer's standard, as approved by Architect.

2. Rigid Clear-Span Frames: I-shaped frame sections fabricated from shop-welded, built-up steel plates or structural-steel shapes. Interior columns are not permitted.
3. Frame Configuration: One-directional, sloped.
4. Exterior Column: Tapered.
5. Rafter: Uniform depth or Tapered.

E. End-Wall Framing: Manufacturer's standard primary end-wall framing fabricated for field-bolted assembly to comply with the following:

1. End-Wall and Corner Columns: I-shaped sections fabricated from structural-steel shapes; shop-welded, built-up steel plates; or C-shaped, cold-formed, structural-steel sheet.
2. End-Wall Rafters: C-shaped, cold-formed, structural-steel sheet; or I-shaped sections fabricated from shop-welded, built-up steel plates or structural-steel shapes.

F. Secondary Framing: Manufacturer's standard secondary framing, including purlins, girts, eave struts, flange bracing, base members, gable angles, clips, headers, jambs, and other miscellaneous structural members. Unless otherwise indicated, fabricate framing from either cold-formed, structural-steel sheet or roll-formed, metallic-coated steel sheet, prepainted with coil coating, to comply with the following:

1. Purlins:

a. C- or Z-shaped sections; fabricated from built-up steel plates, steel sheet, or structural-steel shapes; minimum 2-1/2-inch-wide flanges.

1) Depth: As needed to comply with system performance requirements.

2. Girts: C- or Z-shaped sections; fabricated from built-up steel plates, steel sheet, or structural-steel shapes. Form ends of Z-sections with stiffening lips angled 40 to 50 degrees from flange, with minimum 2-1/2-inch-wide flanges.

a. Depth: As indicated on Drawings.

3. Eave Struts: Unequal-flange, C-shaped sections; fabricated from built-up steel plates, steel sheet, or structural-steel shapes; to provide adequate backup for metal panels.
4. Flange Bracing: Minimum 2-by-2-by-1/8-inch structural-steel angles or 1-inch-diameter, cold-formed structural tubing to stiffen primary-frame flanges.
5. Sag Bracing: Minimum 1-by-1-by-1/8-inch structural-steel angles.
6. Base or Sill Angles: Manufacturer's standard base angle, minimum 3-by-2-inch, fabricated from zinc-coated (galvanized) steel sheet.
7. Purlin and Girt Clips: Manufacturer's standard clips fabricated from steel sheet. Provide galvanized clips where clips are connected to galvanized framing members.
8. Framing for Openings: Channel shapes; fabricated from cold-formed, structural-steel sheet or structural-steel shapes. Frame head and jamb of door openings and head, jamb, and sill of other openings.
9. Miscellaneous Structural Members: Manufacturer's standard sections fabricated from cold-formed, structural-steel sheet; built-up steel plates; or zinc-coated (galvanized) steel sheet; designed to withstand required loads.

G. Bracing: Provide adjustable wind bracing using any method as follows:

1. Rods: ASTM A36/A36M; ASTM A572/A572M, Grade 50; or ASTM A529/A529M, Grade 50; minimum 1/2-inch-diameter steel; threaded full length or threaded a minimum of 6 inches at each end.
2. Cable: ASTM A475, minimum 1/4-inch-diameter, extra-high-strength grade, Class B, zinc-coated, seven-strand steel; with threaded end anchors.
3. Angles: Fabricated from structural-steel shapes to match primary framing, of size required to withstand design loads.
4. Rigid Portal Frames: Fabricated from shop-welded, built-up steel plates or structural-steel shapes to match primary framing; of size required to withstand design loads.
5. Fixed-Base Columns: Fabricated from shop-welded, built-up steel plates or structural-steel shapes to match primary framing; of size required to withstand design loads.
6. Diaphragm Action of Metal Panels: Design metal building to resist wind forces through diaphragm action of metal panels.

H. Anchor Rods: Headed anchor rods as indicated in Anchor Rod Plan for attachment of metal building to foundation.

I. Materials:

1. W-Shapes: ASTM A992/A992M; ASTM A572/A572M, Grade 50 or 55; or ASTM A529/A529M, Grade 50 or 55.
2. Channels, Angles, M-Shapes, and S-Shapes: ASTM A36/A36M; ASTM A572/A572M, Grade 50 or 55; or ASTM A529/A529M, Grade 50 or 55.
3. Plate and Bar: ASTM A36/A36M; ASTM A572/A572M, Grade 50 or 55; or ASTM A529/A529M, Grade 50 or 55.
4. Steel Pipe: ASTM A53/A53M, Type E or S, Grade B.
5. Cold-Formed Hollow Structural Sections: ASTM A500, Grade B or C, structural tubing.
6. Structural-Steel Sheet: Hot-rolled, ASTM A1011/A1011M, Structural Steel (SS), Grades 30 through 55, or High-Strength Low-Alloy Steel (HSLAS) or High-Strength Low-Alloy Steel with Improved Formability (HSLAS-F), Grades 45 through 70; or cold-rolled, ASTM A1008/A1008M, Structural Steel (SS), Grades 25 through 80, or HSLAS, Grades 45 through 70.
7. Metallic-Coated Steel Sheet: ASTM A653/A653M, SS, Grades 33 through 80, or HSLAS or HSLAS-F, Grades 50 through 80; with G60 coating designation; mill phosphatized.
8. Metallic-Coated Steel Sheet Prepainted with Coil Coating: Steel sheet, metallic coated by the hot-dip process and prepainted by the coil-coating process to comply with ASTM A755/A755M.

    a. Zinc-Coated (Galvanized) Steel Sheet: ASTM A653/A653M, SS, Grades 33 through 80, or HSLAS or HSLAS-F, Grades 50 through 80; with G90 coating designation.
    b. Aluminum-Zinc Alloy-Coated Steel Sheet: ASTM A792/A792M, SS, Grade 50 or 80; with Class AZ50 coating.

9. Non-High-Strength Bolts, Nuts, and Washers: ASTM A307, Grade A, carbon-steel, hex-head bolts; ASTM A563 carbon-steel hex nuts; and ASTM F844 plain (flat) steel washers.

    a. Finish: Hot-dip zinc coating, ASTM F2329, Class C.

10. High-Strength Bolts, Nuts, and Washers, Grade A325: ASTM F3125/F3125M, Type 1, heavy-hex steel structural bolts; ASTM A563, Grade DH, heavy-hex carbon-steel nuts; and ASTM F436/F436M, Type 1, hardened carbon-steel washers.

    a. Finish: Hot-dip zinc coating, ASTM F2329, Class C.

11. High-Strength Bolts, Nuts, and Washers, Grade A490: ASTM F3125/F3125M, Type 1, heavy-hex steel structural bolts; ASTM A563, Grade DH, heavy-hex carbon-steel nuts; and ASTM F436/F436M, Type 1, hardened carbon-steel washers; all with plain finish.
12. Tension-Control, High-Strength Bolt-Nut-Washer Assemblies: ASTM F3125/F3125M, Grade F1852, Type 1, heavy-hex head assemblies consisting of steel structural bolts with splined ends; ASTM A563, Grade DH, heavy-hex carbon-steel nuts; and ASTM F436/F436M, Type 1 hardened carbon-steel washers.

    a. Finish: Mechanically deposited zinc coating, ASTM B695, Class 50.

13. Unheaded Anchor Rods: ASTM F1554, Grade 36.

    a. Configuration: Straight.
    b. Nuts: ASTM A563 heavy-hex carbon steel.
    c. Plate Washers: ASTM A36/A36M carbon steel.
    d. Washers: ASTM F436 hardened carbon steel.
    e. Finish: Hot-dip zinc coating, ASTM F2329, Class C.

14. Headed Anchor Rods: ASTM F1554, Grade 36.

    a. Configuration: Straight.
    b. Nuts: ASTM A563 heavy-hex carbon steel.
    c. Plate Washers: ASTM A36/A36M carbon steel.
    d. Washers: ASTM F436 hardened carbon steel.
    e. Finish: Hot-dip zinc coating, ASTM F2329, Class C.

15. Threaded Rods: ASTM A36/A36M or ASTM A307, Grade A.

    a. Nuts: ASTM A563 heavy-hex carbon steel.
    b. Washers: ASTM A36/A36M carbon steel.
    c. Finish: Hot-dip zinc coating, ASTM F2329, Class C.

J. Finish: Factory primed. Apply specified primer immediately after cleaning and pretreating.

1. Clean and prepare in accordance with SSPC-SP2.
2. Coat with manufacturer's standard primer. Apply primer to primary and secondary framing to a minimum dry film thickness of 1 mil.

    a. Prime secondary framing formed from uncoated steel sheet to a minimum dry film thickness of 0.5 mil on each side.

2.5 METAL ROOF PANELS

A. Standing-Seam, Vertical-Rib, Metal Roof Panels: Formed with vertical ribs at panel edges and intermediate stiffening ribs symmetrically spaced between ribs; designed for sequential installation by mechanically attaching panels to supports using concealed clips located under one side of panels and engaging opposite edge of adjacent panels.

1. Material: Zinc-coated (galvanized) or aluminum-zinc alloy-coated steel sheet, 0.024-inch nominal uncoated steel thickness. Prepainted by the coil-coating process to comply with ASTM A755/A755M.
2. Basis-of-Design Product and Manufacturer; MBCI Double-Lok.

    a. Exterior Finish: Two-coat fluoropolymer.
    b. Color: As selected by Architect from manufacturer's full range.

3. Clips: One-piece fixed to accommodate thermal movement.
4. Joint Type: Mechanically seamed.
5. Panel Coverage: 24 inches.
6. Panel Height: 3 inches.

B. Roof Insulation: Refer to Section 07 22 00 “Roof Insulation.”

2.6 METAL WALL PANELS

A. Refer to Section 07 42 13.23 “Metal Composite Material Panels.”

2.7 METAL WALL AND LINER PANELS

A. Exposed-Fastener, Tapered-Rib, Metal Wall Panels: Formed with raised, trapezoidal major ribs and intermediate stiffening ribs symmetrically spaced between major ribs; designed to be installed by lapping side edges of adjacent panels and mechanically attaching panels to supports using exposed fasteners inside laps.

1. Material: Zinc-coated (galvanized) or aluminum-zinc alloy-coated steel sheet, 0.018-inch nominal uncoated steel thickness. Prepainted by the coil-coating process to comply with ASTM A755/A755M.

a. Exterior Finish: Two-coat fluoropolymer.
b. Color: As selected by Architect from manufacturer's full range.

2. Major-Rib Spacing: 12 inches o.c.
3. Panel Coverage: 36 inches.
4. Panel Height: 1.25 inches.

~~2.7~~**2.8** FOAMED-INSULATION-CORE METAL WALL PANELS

A. Concealed-Fastener, Foamed-Insulation-Core Flush-Profile, Metal Wall Panels: Formed with vertical panel edges and flush surface; with flush joint between panels; with 1-inch-wide flange for attaching interior finish; designed to be installed by lapping and interconnecting side edges of adjacent panels and mechanically attaching through panel to supports using concealed fasteners and factory-applied sealant in side laps.

1. Material: Zinc-coated (galvanized) or aluminum-zinc alloy-coated steel sheet, 0.024-inch nominal uncoated steel thickness. Prepainted by the coil-coating process to comply with ASTM A755/A755M.
2. Basis-of-Design Product and Manufacturer; MBCI CF Light Mesa.

    a. Exterior Finish: Fluoropolymer.
    b. Color: As selected by Architect from manufacturer's full range.

3. Panel Coverage: 42 inches.
4. Panel Thickness: 2.5 inches.
5. Insulation Core: Modified polyisocyanurate or polyurethane foam using a non-CFC blowing agent, foamed-in-place or board type, with maximum flame-spread and smoke-developed indexes of 25 and 450, respectively.

    a. Closed-Cell Content: 90 percent when tested according to ASTM D6226.
    b. Density: 2.0 to 2.6 lb/cu. ft. when tested according to ASTM D1622.
    c. Compressive Strength: Minimum 20 psi when tested according to ASTM D1621.
    d. Shear Strength: 26 psi when tested according to ASTM C273/C273M.

6. Fire-Test-Response Characteristics: Class A according to ASTM E108.
7. Surface-Burning Characteristics: Flame-spread index of 25 or less and a smoke-developed index of 450 or less, per ASTM E84.

B. Finishes:

1. Exposed Coil-Coated Finish:

    a. Two-Coat Fluoropolymer: AAMA 621. Fluoropolymer finish containing not less than 70 percent PVDF resin by weight in both color coat and clear topcoat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.

2. Concealed Finish: Apply pretreatment and manufacturer's standard white or light-colored acrylic or polyester backer finish, consisting of prime coat and wash coat with a minimum total dry film thickness of 0.5 mil.

~~2.8~~**2.9** METAL SOFFIT PANELS

A. Refer to Section 07 42 93 “Metal Soffit Panels.”

~~2.9~~**2.10** THERMAL INSULATION

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. Bay Insulation Systems; a division of Bay Industries.

B. Faced Metal Building Insulation: ASTM C991, Type II, glass-fiber-blanket insulation; 0.5-lb/cu. ft. density; 2-inch- wide, continuous, vapor-tight edge tabs; with a flame-spread index of 25 or less.

1. Nonreflective Faced: Type II (blankets with nonreflective membrane covering), Category 1 (membrane is a vapor retarder), Class A (membrane-faced surface with a flame-spread index of 25 or less).

C. Vapor-Retarder Tape: Pressure-sensitive tape of type recommended by vapor-retarder manufacturer for sealing joints and penetrations in vapor retarder.

~~2.10~~**2.11**ACCESSORIES

A. General: Provide accessories as standard with metal building system manufacturer and as specified. Fabricate and finish accessories at the factory to greatest extent possible, by manufacturer's standard procedures and processes. Comply with indicated profiles and with dimensional and structural requirements.

1. Form exposed sheet metal accessories that are without excessive oil-canning, buckling, and tool marks and that are true to line and levels indicated, with exposed edges folded back to form hems.

B. Roof Panel Accessories: Provide components required for a complete metal roof panel assembly including copings, fasciae, corner units, ridge closures, clips, sealants, gaskets, fillers, closure strips, and similar items. Match material and finish of metal roof panels unless otherwise indicated.

1. Closures: Provide closures at eaves and ridges, fabricated of same material as metal roof panels.
2. Clips: Manufacturer's standard, formed from stainless steel sheet, designed to withstand negative-load requirements.
3. Cleats: Manufacturer's standard, mechanically seamed cleats formed from stainless steel sheet or nylon-coated aluminum sheet.
4. Backing Plates: Provide metal backing plates at panel end splices, fabricated from material recommended by manufacturer.

5. Closure Strips: Closed-cell, expanded, cellular, rubber or crosslinked, polyolefin-foam or closed-cell laminated polyethylene; minimum 1-inch-thick, flexible closure strips; cut or premolded to match metal roof panel profile. Provide closure strips where indicated or necessary to ensure weathertight construction.
6. Thermal Spacer Blocks: Where metal panels attach directly to purlins, provide thermal spacer blocks of thickness required to provide 1-inch standoff; fabricated from extruded polystyrene.

C. Wall Panel Accessories: Provide components required for a complete metal wall panel assembly including copings, fasciae, mullions, sills, corner units, clips, sealants, gaskets, fillers, closure strips, and similar items. Match material and finish of metal wall panels unless otherwise indicated.

1. Closures: Provide closures at eaves and rakes, fabricated of same material as metal wall panels.
2. Backing Plates: Provide metal backing plates at panel end splices, fabricated from material recommended by manufacturer.
3. Closure Strips: Closed-cell, expanded, cellular, rubber or crosslinked, polyolefin-foam or closed-cell laminated polyethylene; minimum 1-inch-thick, flexible closure strips; cut or premolded to match metal wall panel profile. Provide closure strips where indicated or necessary to ensure weathertight construction.

D. Flashing and Trim: Zinc-coated (galvanized) or aluminum-zinc alloy-coated steel sheet, 0.018-inch nominal uncoated steel thickness, prepainted with coil coating; finished to match adjacent metal panels.

1. Provide flashing and trim as required to seal against weather and to provide finished appearance. Locations include, but are not limited to, eaves, rakes, corners, bases, framed openings, ridges, fasciae, and fillers.
2. Opening Trim: Zinc-coated (galvanized) or aluminum-zinc alloy-coated steel sheet, 22 gauge nominal uncoated steel thickness, prepainted with coil coating. Trim head and jamb of door openings, and head, jamb, and sill of other openings.

E. Gutters: Zinc-coated (galvanized) or aluminum-zinc alloy-coated steel sheet, 0.018-inch nominal uncoated steel thickness, prepainted with coil coating; finished to match roof fascia and rake trim. Match profile of gable trim, complete with end pieces, outlet tubes, and other special pieces as required. Fabricate in minimum 96-inch-long sections, sized according to SMACNA's "Architectural Sheet Metal Manual."

1. Gutter Supports: Fabricated from same material and finish as gutters.
2. Strainers: Bronze, copper, or aluminum wire ball type at outlets.

F. Downspouts: Zinc-coated (galvanized) or aluminum-zinc alloy-coated steel sheet, 0.018-inch nominal uncoated steel thickness, prepainted with coil coating; finished to match metal wall panels. Fabricate in minimum 10-foot-long sections, complete with formed elbows and offsets.

1. Mounting Straps: Fabricated from same material and finish as gutters.

G. Pipe Flashing: Premolded, EPDM pipe collar with flexible aluminum ring bonded to base.

H. Materials:

1. Fasteners: Self-tapping screws, bolts, nuts, self-locking rivets and bolts, end-welded studs, and other suitable fasteners designed to withstand design loads. Provide fasteners with heads matching color of materials being fastened by means of plastic caps or factory-applied coating.
2. Fasteners for Metal Roof Panels:

    a. Self-drilling or self-tapping, zinc-plated, hex-head carbon-steel screws, with a stainless steel cap or zinc-aluminum-alloy head and EPDM sealing washer.
    b. Self-drilling, Type 410 stainless steel or self-tapping, Type 304 stainless steel or zinc-alloy-steel hex washer head, with EPDM washer under heads of fasteners bearing on weather side of metal panels.

3. Fasteners for Metal Wall Panels:

    a. Self-drilling, Type 410 stainless steel or self-tapping, Type 304 stainless steel or zinc-alloy-steel hex washer head.

4. Fasteners for Flashing and Trim: Blind fasteners or self-drilling screws with hex washer head.
5. Blind Fasteners: High-strength aluminum or stainless steel rivets.
6. Corrosion-Resistant Coating: Cold-applied asphalt mastic, compounded for 15-mil dry film thickness per coat. Provide inert-type noncorrosive compound free of asbestos fibers, sulfur components, and other deleterious impurities.
7. Nonmetallic, Shrinkage-Resistant Grout: ASTM C1107/C1107M, factory-packaged, nonmetallic aggregate grout, noncorrosive, nonstaining, mixed with water to consistency suitable for application and a 30-minute working time.
8. Metal Panel Sealants:

    a. Sealant Tape: Pressure-sensitive, 100 percent solids, gray polyisobutylene-compound sealant tape with release-paper backing. Provide permanently elastic, nonsag, nontoxic, nonstaining tape of manufacturer's standard size.
    b. Joint Sealant: ASTM C920; one part elastomeric polyurethane or polysulfide; of type, grade, class, and use classifications required to seal joints in metal panels and remain weathertight; and as recommended by metal building system manufacturer.

~~2.11~~**2.12** FABRICATION

A. General: Design components and field connections required for erection to permit easy assembly.

1. Mark each piece and part of the assembly to correspond with previously prepared erection drawings, diagrams, and instruction manuals.
2. Fabricate structural framing to produce clean, smooth cuts and bends. Punch holes of proper size, shape, and location. Members to be free of cracks, tears, and ruptures.

B. Tolerances: Comply with MBMA's "Metal Building Systems Manual" for fabrication and erection tolerances.

C. Primary Framing: Shop fabricate framing components to indicated size and section, with baseplates, bearing plates, stiffeners, and other items required for erection welded into place. Cut, form, punch, drill, and weld framing for bolted field assembly.

1. Make shop connections by welding or by using high-strength bolts.
2. Join flanges to webs of built-up members by a continuous, submerged arc-welding process.
3. Brace compression flange of primary framing with steel angles or cold-formed structural tubing between frame web and purlin web or girt web, so flange compressive strength is within allowable limits for any combination of loadings.
4. Weld clips to frames for attaching secondary framing if applicable, or punch for bolts.
5. Shop Priming: Prepare surfaces for shop priming according to SSPC-SP 2. Shop prime primary framing with specified primer after fabrication.

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

1. Make shop connections by welding or by using non-high-strength bolts.
2. Shop Priming: Prepare uncoated surfaces for shop priming according to SSPC-SP 2. Shop prime uncoated secondary framing with specified primer after fabrication.

E. Metal Panels: Fabricate and finish metal panels at the factory to greatest extent possible, by manufacturer's standard procedures and processes, as necessary to fulfill indicated performance requirements. Comply with indicated profiles and with dimensional and structural requirements.

1. Provide panel profile, including major ribs and intermediate stiffening ribs, if any, for full length of metal panel.

~~2.12~~**2.13** SOURCE QUALITY CONTROL

A. Special Inspection: Owner will engage a qualified special inspector to perform source quality control inspections and to submit reports.

1. Accredited Manufacturers: Special inspections will not be required if fabrication is performed by an IAS AC472-accredited manufacturer approved by authorities having jurisdiction to perform such Work without special inspection.

    a. After fabrication, submit copy of certificate of compliance to authorities having jurisdiction, certifying that Work was performed according to Contract requirements.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with erector present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

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

1. Engage land surveyor to perform surveying.

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

3.2 PREPARATION

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

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

3.3 ERECTION OF STRUCTURAL FRAMING

A. Erect metal building system according to manufacturer's written instructions and drawings.

B. Do not field cut, drill, or alter structural members without written approval from metal building system manufacturer's professional engineer.

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

D. Base and Bearing Plates: Clean concrete- and masonry-bearing surfaces of bond-reducing materials, and roughen surfaces prior to setting plates. Clean bottom surface of plates.

1. Set plates for structural members on wedges, shims, or setting nuts as required.
2. Tighten anchor rods after supported members have been positioned and plumbed. Do not remove wedges or shims but, if protruding, cut off flush with edge of plate before packing with grout.
3. Promptly pack grout solidly between bearing surfaces and plates so no voids remain. Neatly finish exposed surfaces; protect grout and allow to cure. Comply with manufacturer's written installation instructions for shrinkage-resistant grouts.

E. Align and adjust structural framing before permanently fastening. Before assembly, clean bearing surfaces and other surfaces that will be in permanent contact with framing. Perform necessary adjustments to compensate for discrepancies in elevations and alignment.

1. Level and plumb individual members of structure.
2. Make allowances for difference between temperature at time of erection and mean temperature when structure will be completed and in service.

F. Primary Framing and End Walls: Erect framing level, plumb, rigid, secure, and true to line. Level baseplates to a true even plane with full bearing to supporting structures, set with double-nutted anchor bolts. Use grout to obtain uniform bearing and to maintain a level base-line elevation. Moist-cure grout for not less than seven days after placement.

1. Make field connections using high-strength bolts installed according to RCSC's "Specification for Structural Joints Using High-Strength Bolts" for bolt type and joint type specified.

    a. Joint Type: Snug tightened or pretensioned as required by manufacturer.

G. Secondary Framing: Erect framing level, plumb, rigid, secure, and true to line. Field bolt secondary framing to clips attached to primary framing.

1. Provide rake or gable purlins with tight-fitting closure channels and fasciae.
2. Locate and space wall girts to suit openings such as doors and windows.
3. Provide supplemental framing at entire perimeter of openings, including doors, windows, louvers, and other penetrations of roof and walls.

H. Steel Joists: Install joists and accessories plumb, square, and true to line; securely fasten to supporting construction according to SJI's "Standard Specifications and Load Tables for Steel Joists and Joist Girders," joist manufacturer's written instructions, and requirements in this Section.

1. Before installation, splice joists delivered to Project site in more than one piece.
2. Space, adjust, and align joists accurately in location before permanently fastening.
3. Install temporary bracing and erection bridging, connections, and anchors to ensure that joists are stabilized during construction.
4. Joint Installation:

    a. Bolt joists to supporting steel framework using carbon-steel bolts unless otherwise indicated.
    b. Bolt joists to supporting steel framework using high-strength structural bolts unless otherwise indicated. Comply with RCSC's "Specification for Structural Joints Using High-Strength Bolts" for high-strength structural bolt installation and tightening requirements.
    c. Weld joist seats to supporting steel framework.

5. Install and connect bridging concurrently with joist erection, before construction loads are applied. Anchor ends of bridging lines at top and bottom chords if terminating at walls or beams.

I. Bracing: Install bracing in roof and sidewalls where indicated on erection drawings.

1. Tighten rod and cable bracing to avoid sag.
2. Locate interior end-bay bracing only where indicated.

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

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

3.4 METAL PANEL INSTALLATION, GENERAL

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

B. Examination: Examine primary and secondary framing to verify that structural-panel support members and anchorages have been installed within alignment tolerances required by manufacturer.

1. Examine roughing-in for components and systems penetrating metal panels, to verify actual locations of penetrations relative to seams before metal panel installation.

C. General: Anchor metal panels and other components of the Work securely in place, with provisions for thermal and structural movement.

1. Field cut metal panels as required for doors, windows, and other openings. Cut openings as small as possible, neatly to size required, and without damage to adjacent metal panel finishes.

    a. Field cutting of metal panels by torch is not permitted unless approved in writing by manufacturer.

2. Install metal panels perpendicular to structural supports unless otherwise indicated.
3. Flash and seal metal panels with weather closures at perimeter of openings and similar elements. Fasten with self-tapping screws.
4. Locate and space fastenings in uniform vertical and horizontal alignment.
5. Locate metal panel splices over structural supports with end laps in alignment.
6. Lap metal flashing over metal panels to allow moisture to run over and off the material.

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

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

1. Seal metal panel end laps with double beads of tape or sealant the full width of panel. Seal side joints where recommended by metal panel manufacturer.
2. Prepare joints and apply sealants to comply with requirements in Section 07 92 00 "Joint Sealants."

3.5 METAL ROOF PANEL INSTALLATION

A. General: Provide metal roof panels of full length from eave to ridge unless otherwise indicated or restricted by shipping limitations.

1. Install ridge caps as metal roof panel work proceeds.
2. Flash and seal metal roof panels with weather closures at eaves and rakes. Fasten with self-tapping screws.

B. Standing-Seam Metal Roof Panels: Fasten metal roof panels to supports with concealed clips at each standing-seam joint, at location and spacing and with fasteners recommended by manufacturer.

1. Install clips to supports with self-drilling or self-tapping fasteners.
2. Install pressure plates at locations indicated in manufacturer's written installation instructions.
3. Snap Joint: Nest standing seams and fasten together by interlocking and completely engaging factory-applied sealant.

4. Seamed Joint: Crimp standing seams with manufacturer-approved motorized seamer tool so that clip, metal roof panel, and factory-applied sealant are completely engaged.
5. Rigidly fasten eave end of metal roof panels and allow ridge end free movement for thermal expansion and contraction. Predrill panels for fasteners.
6. Provide metal closures at peaks rake edges each side of ridge caps.

C. Metal Fascia Panels: Align bottom of metal panels and fasten with blind rivets, bolts, or self-drilling or self-tapping screws. Flash and seal metal panels with weather closures where fasciae meet soffits, along lower panel edges, and at perimeter of all openings.

D. Metal Roof Panel Installation Tolerances: Shim and align metal roof panels within installed tolerance of 1/4 inch in 20 feet on slope and location lines and within 1/8-inch offset of adjoining faces and of alignment of matching profiles.

3.6 METAL WALL PANEL INSTALLATION

A. General: Install metal wall panels in orientation, sizes, and locations indicated on Drawings. Install panels perpendicular to girts, extending full height of building, unless otherwise indicated. Anchor metal wall panels and other components of the Work securely in place, with provisions for thermal and structural movement.

1. Unless otherwise indicated, begin metal panel installation at corners with center of rib lined up with line of framing.
2. Shim or otherwise plumb substrates receiving metal wall panels.
3. When two rows of metal panels are required, lap panels 4 inches minimum.
4. When building height requires two rows of metal panels at gable ends, align lap of gable panels over metal wall panels at eave height.
5. Rigidly fasten base end of metal wall panels and allow eave end free movement for thermal expansion and contraction. Predrill panels.
6. Flash and seal metal wall panels with weather closures at eaves and rakes, and at perimeter of all openings. Fasten with self-tapping screws.
7. Install screw fasteners in predrilled holes.
8. Install flashing and trim as metal wall panel work proceeds.
9. Apply elastomeric sealant continuously between metal base channel (sill angle) and concrete, and elsewhere as indicated on Drawings; if not indicated, as necessary for waterproofing.
10. Align bottom of metal wall panels and fasten with blind rivets, bolts, or self-drilling or self-tapping screws.
11. Provide weatherproof escutcheons for pipe and conduit penetrating exterior walls.

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

C. Installation Tolerances: Shim and align metal wall panels within installed tolerance of 1/4 inch in 20 feet, noncumulative; level, plumb, and on location lines; and within 1/8-inch offset of adjoining faces and of alignment of matching profiles.

3.7 THERMAL INSULATION INSTALLATION

A. General: Install insulation concurrently with metal panel installation, in thickness indicated to cover entire surface, according to manufacturer's written instructions.

1. Set vapor-retarder-faced units with vapor retarder toward warm side of construction unless otherwise indicated. Do not obstruct ventilation spaces except for firestopping.
2. Tape joints and ruptures in vapor retarder, and seal each continuous area of insulation to the surrounding construction to ensure airtight installation.
3. Install factory-laminated, vapor-retarder-faced blankets straight and true in one-piece lengths, with both sets of facing tabs sealed, to provide a complete vapor retarder.
4. Install blankets straight and true in one-piece lengths. Install vapor retarder over insulation, with both sets of facing tabs sealed, to provide a complete vapor retarder.

B. Blanket Roof Insulation: Comply with the following installation method:

1. Two-Layers-between-Purlin-with-Spacer-Block Installation: Extend insulation and vapor retarder between purlins. Carry vapor-retarder-facing tabs up and over purlin, overlapping adjoining facing of next insulation course and maintaining continuity of retarder. Install layer of filler insulation over first layer to fill space between purlins formed by thermal spacer blocks. Hold in place with bands and crossbands below insulation.

a. Thermal Spacer Blocks: Where metal roof panels attach directly to purlins, install thermal spacer blocks.

C. Blanket Wall Insulation: Extend insulation and vapor retarder over and perpendicular to top flange of secondary framing. Hold in place by metal wall panels fastened to secondary framing.

1. Retainer Strips: Install retainer strips at each longitudinal insulation joint, straight and taut, nesting with secondary framing to hold insulation in place.

3.8 ACCESSORY INSTALLATION

A. General: Install accessories with positive anchorage to building and weathertight mounting, and provide for thermal expansion. Coordinate installation with flashings and other components.

1. Install components required for a complete metal roof panel assembly, including trim, copings, ridge closures, seam covers, flashings, sealants, gaskets, fillers, closure strips, and similar items.
2. Install components for a complete metal wall panel assembly, including trim, copings, corners, seam covers, flashings, sealants, gaskets, fillers, closure strips, and similar items.

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

B. Flashing and Trim: Comply with performance requirements, manufacturer's written installation instructions, and SMACNA's "Architectural Sheet Metal Manual." Provide concealed fasteners where possible, and set units true to line and level. Install work with laps, joints, and seams that will be permanently watertight and weather resistant.

1. Install exposed flashing and trim that is without excessive oil-canning, buckling, and tool marks and that is true to line and levels indicated, with exposed edges folded back to form hems. Install sheet metal flashing and trim to fit substrates and to result in waterproof and weather-resistant performance.
2. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim. Space movement joints at a maximum of 10 feet with no joints allowed within 24 inches of corner or intersection. Where lapped or bayonet-type expansion provisions cannot be used or would not be sufficiently weather resistant and waterproof, form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with mastic sealant (concealed within joints).

C. Gutters: Join sections with riveted-and-soldered or lapped-and-sealed joints. Attach gutters to eave with gutter hangers spaced as required for gutter size, but not more than 36 inches o.c. using manufacturer's standard fasteners. Provide end closures and seal watertight with sealant. Provide for thermal expansion.

D. Downspouts: Join sections with 1-1/2-inch telescoping joints. Provide fasteners designed to hold downspouts securely 1 inch away from walls; locate fasteners at top and bottom and at approximately 60 inches o.c. in between.

1. Provide elbows at base of downspouts to direct water away from building.
2. Tie downspouts to underground drainage system indicated.

E. Pipe Flashing: Form flashing around pipe penetration and metal roof panels. Fasten and seal to panel as recommended by manufacturer.

3.9 FIELD QUALITY CONTROL

A. Special Inspections: Owner will engage a qualified special inspector to perform field quality control special inspections and to submit reports.

B. Product will be considered defective if it does not pass tests and inspections.

C. Prepare test and inspection reports.

3.10 CLEANING AND PROTECTION

A. Repair damaged galvanized coatings on galvanized items with galvanized repair paint according to ASTM A780/A780M and manufacturer's written instructions.

B. Remove and replace glass that has been broken, chipped, cracked, abraded, or damaged during construction period.

C. Touchup Painting:

1. After erection, promptly clean, prepare, and prime or reprime field connections, rust spots, and abraded surfaces of prime-painted structural framing, bearing plates, and accessories.

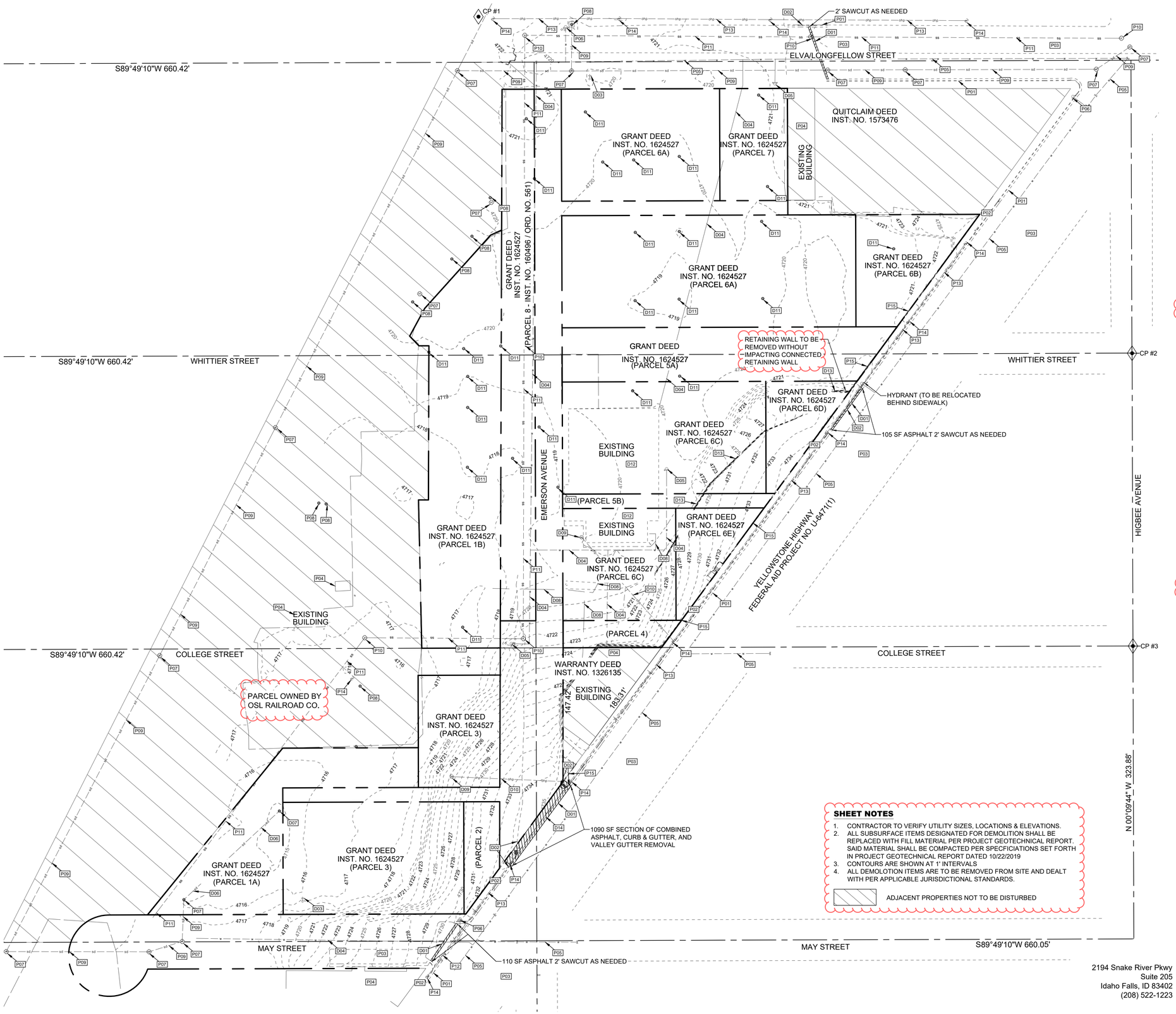
a. Clean and prepare surfaces by SSPC-SP 2, "Hand Tool Cleaning," or by SSPC-SP 3, "Power Tool Cleaning."
b. Apply a compatible primer of same type as shop primer used on adjacent surfaces.

2. Cleaning and touchup painting are specified in Section 09 91 00 "Painting."

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

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

END OF SECTION 13 34 19



BASIS OF BEARING:

PER CITY OF IDAHO FALLS 2004 COORDINATE SYSTEM WHICH COINCIDES WITH IDAHO E-ZONE STATE PLANE NAD 83 CENTRAL MERIDIAN

SURVEY NOTE:

THIS SITE PLAN CONFORMS TO AN ACTUAL SURVEY THAT WAS PERFORMED ON THE GROUND BY A LICENSED LAND SURVEYOR IN AND FOR THE STATE OF IDAHO. IT IS THE OWNER'S RESPONSIBILITY TO CONSTRUCT ALL STRUCTURES SHOWN ON THIS SITE PLAN IN ACCORDANCE WITH SAID SURVEY.

CONTROL POINTS: ◆ CP#

CP#1
ELEV: 4721.85'
N: 669856.7984'
E: 692916.5758'
FOUND: IRON ROD

CP#2
ELEV: 4726.05'
N: 669484.4363'
E: 693639.3532'
FOUND: IRON ROD

CP#3
ELEV: 4739.15'
N: 669160.5233'
E: 693640.3057'
FOUND: IRON ROD

- VERTICAL CONTROL DATUM BASED ON NAVD88
- ELEVATIONS SHOWN ARE GPS OBSERVED ELEVATIONS

PROTECT IN PLACE KEYNOTES:

- P01 EXISTING CURB & GUTTER
- P02 EXISTING SIDEWALK
- P03 EXISTING ASPHALT
- P04 EXISTING BUILDING
- P05 EXISTING WATER LINE
- P06 EXISTING FIRE HYDRANT
- P07 EXISTING STORM DRAIN STRUCTURE
- P08 EXISTING STORM DRAIN INLET
- P09 EXISTING STORM DRAIN LINE
- P10 EXISTING SANITARY SEWER MANHOLE
- P11 EXISTING SANITARY SEWER LINE
- P12 EXISTING VALLEY GUTTER
- P13 EXISTING OVERHEAD POWER LINE
- P14 EXISTING POWER POLE
- P15 EXISTING RETAINING WALL

DEMOLITION KEYNOTES:

*SEE SHEET NOTE 4 FOR DEMOLITION REQUIREMENTS

- D01 EXISTING ASPHALT
- D02 EXISTING CURB & GUTTER
- D03 EXISTING LIGHT POLE
- D04 EXISTING WATER LINE
- D05 EXISTING HYDRANT
- D06 ABANDON IN PLACE STORM DRAIN
- D07 ABANDON IN PLACE STORM DRAIN STRUCTURE
- D08 EXISTING GAS LINE
- D09 EXISTING POWER POLE
- D10 EXISTING OVERHEAD POWER
- D11 EXISTING STORM DRAIN INLET
- D12 EXISTING BUILDING
- D13 EXISTING RETAINING WALL
- D14 EXISTING VALLEY GUTTER

SHEET NOTES

1. CONTRACTOR TO VERIFY UTILITY SIZES, LOCATIONS & ELEVATIONS.
2. ALL SUBSURFACE ITEMS DESIGNATED FOR DEMOLITION SHALL BE REPLACED WITH FILL MATERIAL PER PROJECT GEOTECHNICAL REPORT. SAID MATERIAL SHALL BE COMPACTED PER SPECIFICIATIONS SET FORTH IN PROJECT GEOTECHNICAL REPORT DATED 10/22/2019
3. CONTOURS ARE SHOWN AT 1' INTERVALS
4. ALL DEMOLOTION ITEMS ARE TO BE REMOVED FROM SITE AND DEALT WITH PER APPLICABLE JURISDICTIONAL STANDARDS.

ADJACENT PROPERTIES NOT TO BE DISTURBED

DISCLAIMER

UNSEEN RESIDUAL PRODUCT MAY REMAIN ON SITE, INCLUDING LEFTOVER CONCRETE AND ABANDONED UTILITIES. CONCRETE STRUCTURES MAY HAVE BEEN PRIOR REMOVED LEAVING BEHIND CONCRETE PILES, DEBRIS, AND ABANDONED FOUNDATIONS. AREAS OF UNCONTROLLED FILL NEED TO BE MITIGATED TO REDUCE SEVERE SETTLING AND UNRESOLVED FUTURE PROBLEMS. EXISTING DETAILS INCLUDING ITEMS TO BE PROTECTED AND DEMOLISHED HAVE BEEN LABELED TO THE BEST OF OUR KNOWLEDGE BASED ON AN OFFICIAL SITE SURVEY AND RELAYED DETAILS.

PRELIMINARY
NOT FOR CONSTRUCTION

2194 Snake River Pkwy
Suite 205
Idaho Falls, ID 83402
(208) 522-1223

HORROCKS ENGINEERS

0 50' 100'
SCALE: 1" = 50'

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Rodney McManus, LEED AP
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Stamp:

IDAHO FALLS POLICE HEADQUARTERS

775 NORTHGATE MILE,
IDAHO FALLS, ID 83401

Project No.
ID-2562-2007

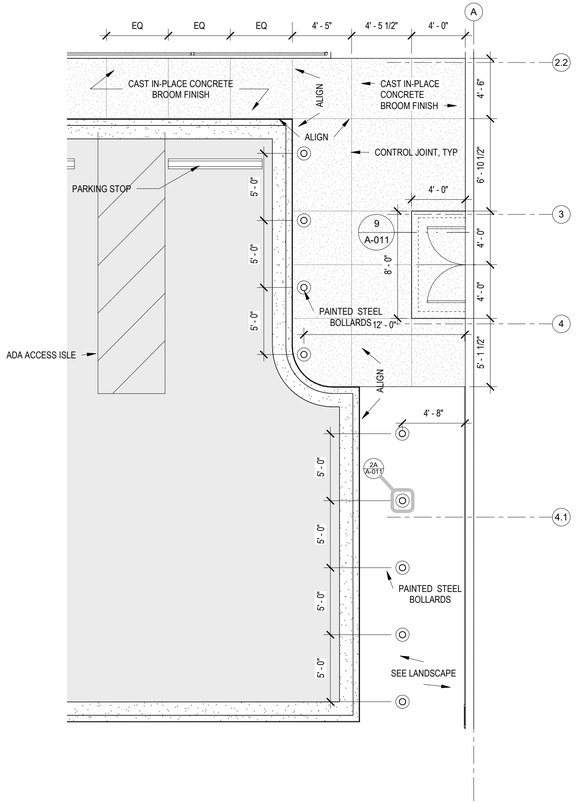
Revisions:
2-28-22 - ADDENDUM #1
3-9-22 - ADDENDUM #2
3-17-22 - ADDENDUM #3

BID SET

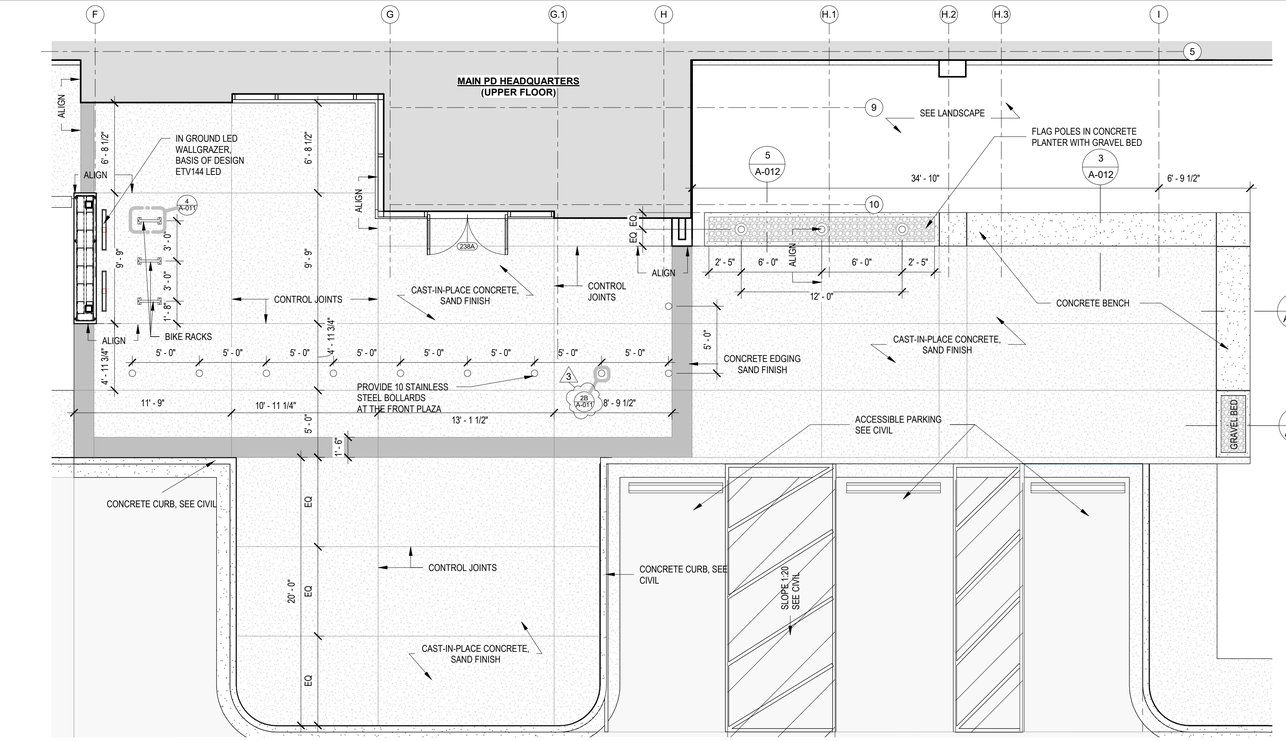
Issue Date: 12/23/2021
Design by: JTS
Drawn by: JTS
Checked by: LTS

OVERALL EXISTING CONDITIONS & DEMOLITION

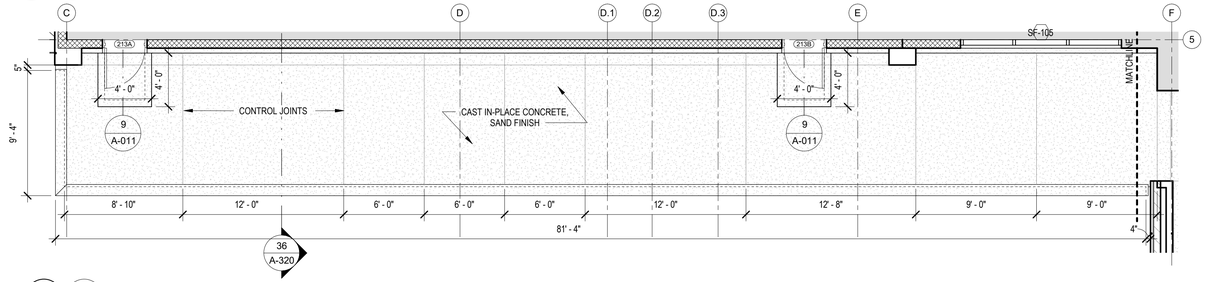
C.2.0



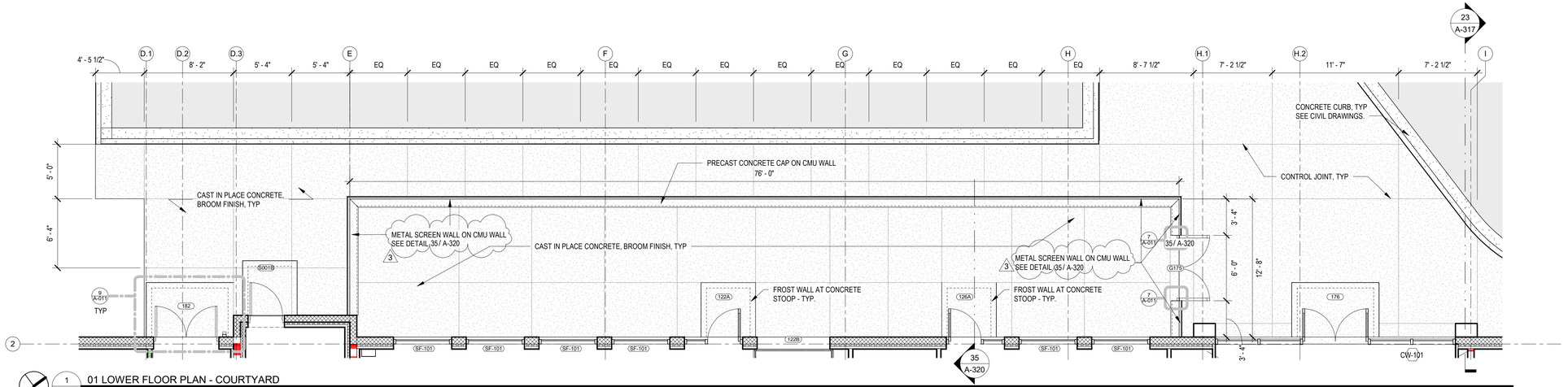
4 A-002 PUBLIC EVIDENCE PARKING 3/16" = 1'-0"



3 A-002 02 UPPER FLOOR PLAN - FRONT PLAZA -AREA A 3/16" = 1'-0"



2 A-002 02 UPPER FLOOR PLAN - FRONT PLAZA- AREA B 3/16" = 1'-0"



1 A-002 01 LOWER FLOOR PLAN - COURTYARD 3/16" = 1'-0"

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Signature and Seal:

LICENSED ARCHITECT AR-986743
2022.03.17
IAN A. REEVES, STATE OF IDAHO

IDAHO FALLS POLICE HEADQUARTERS

IDAHO FALLS, ID

Project No.
1047-20

Revisions:
3 2022.03.17 ADDENDUM #3

BID ISSUE

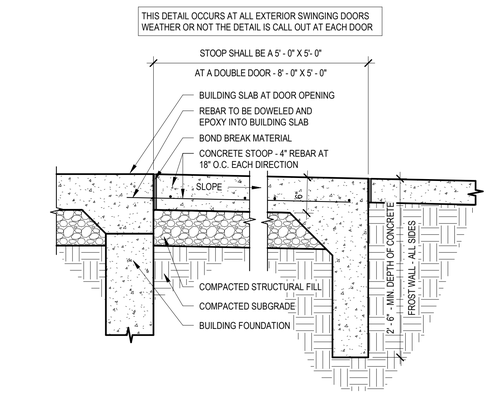
Issue Date:
2022.02.10

Drawn by: GT
Checked by: Checker

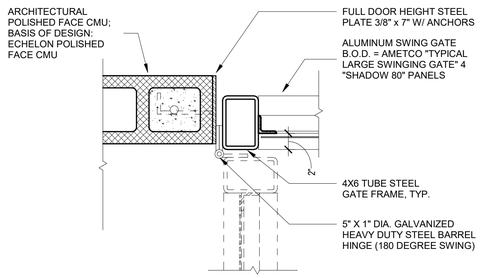
Project North:

ENLARGED SITE PLANS

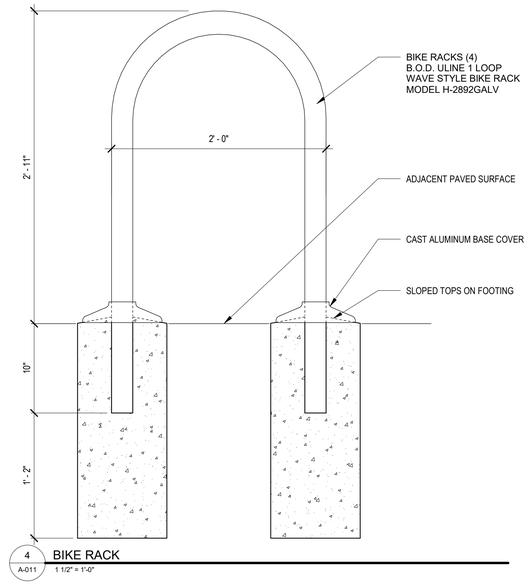
A-002



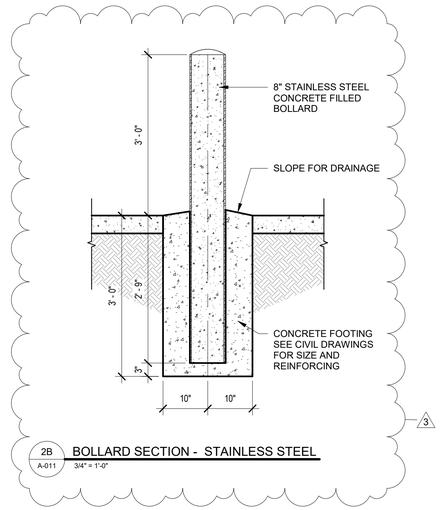
9 A-011 CONCRETE STOOP 1" = 1'-0"



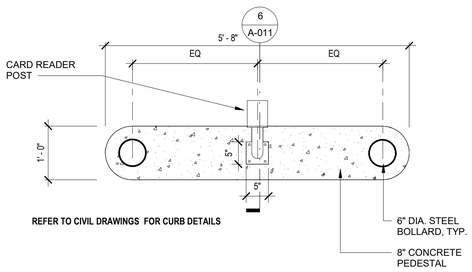
7 A-011 GATE JAMB HINGE SIDE 1 1/2" = 1'-0"



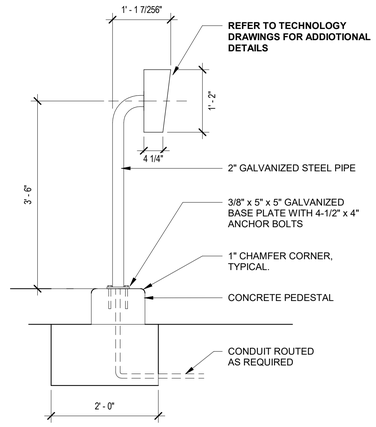
4 A-011 BIKE RACK 1 1/2" = 1'-0"



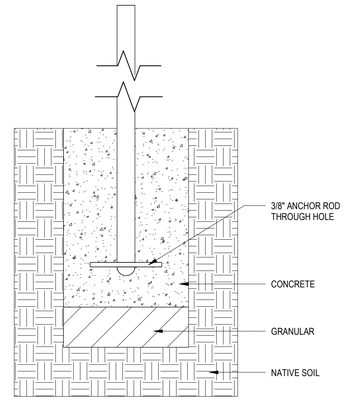
2B A-011 BOLLARD SECTION - STAINLESS STEEL 3/4" = 1'-0"



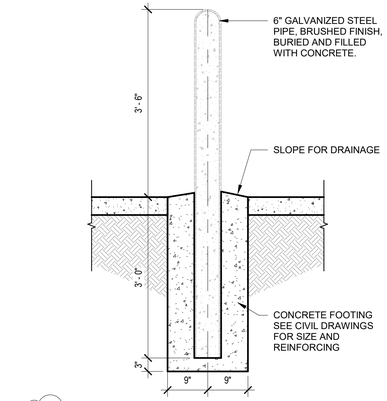
8 A-011 CARD READER PLAN 3/4" = 1'-0"



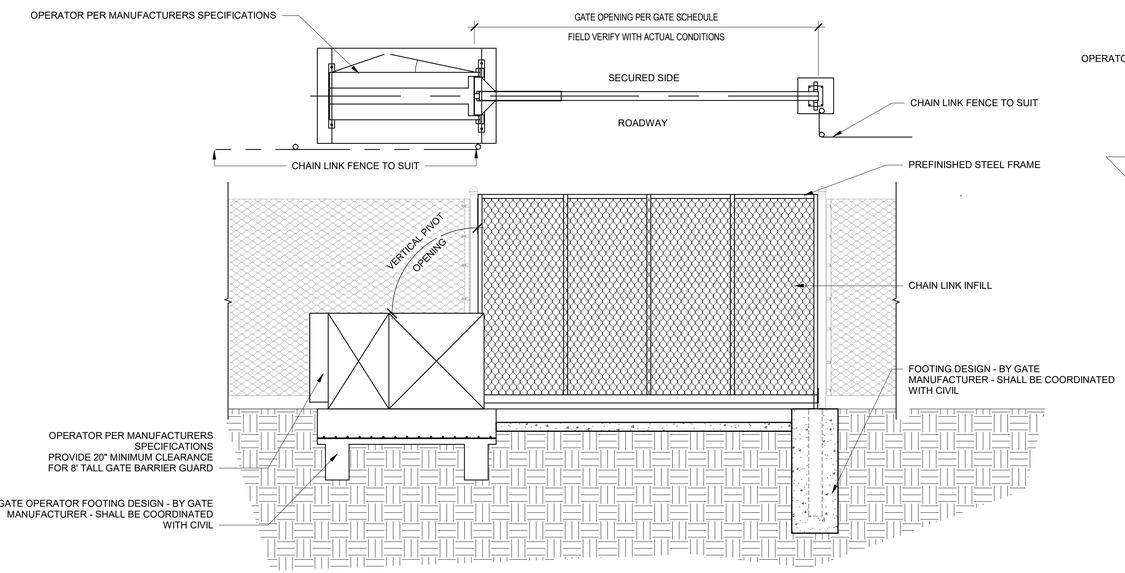
6 A-011 CARD READER SECTION 3/4" = 1'-0"



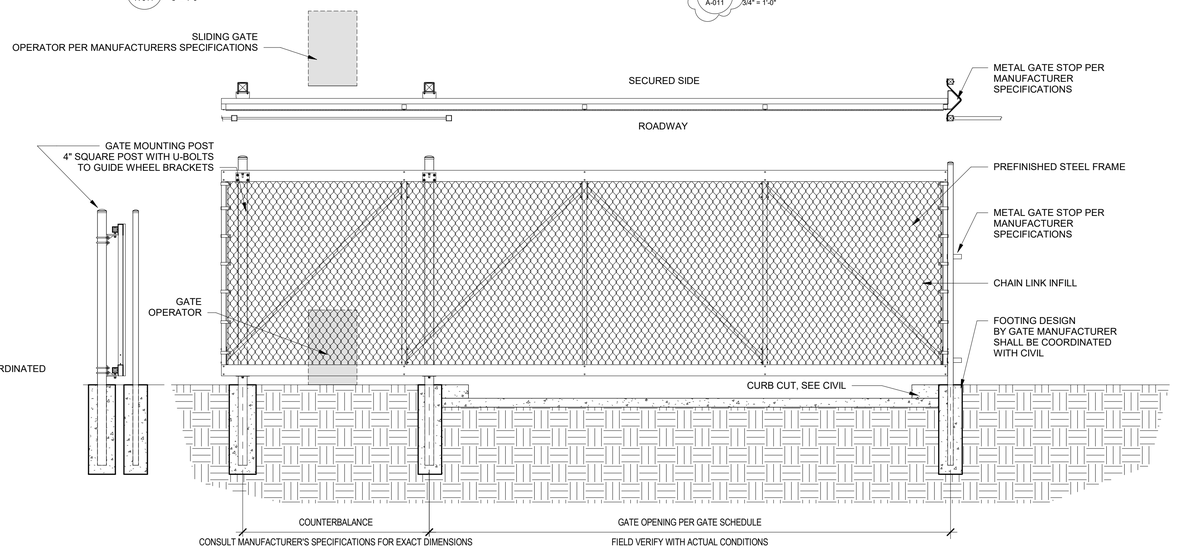
3 A-011 IN GROUND MOUNT 3" = 1'-0"



2A A-011 BOLLARD SECTION 3/4" = 1'-0"



5 A-011 VERTICAL PIVOT VEHICULAR GATE 3/8" = 1'-0"



1 A-011 CANTILEVER SLIDING GATE DETAIL 3/8" = 1'-0"

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2022.03.17
IAN A. REEVES, STATE OF IDAHO

IDAHO FALLS POLICE HEADQUARTERS

IDAHO FALLS, ID

Project No. 1047-20

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3 2022.03.17 ADDENDUM #3

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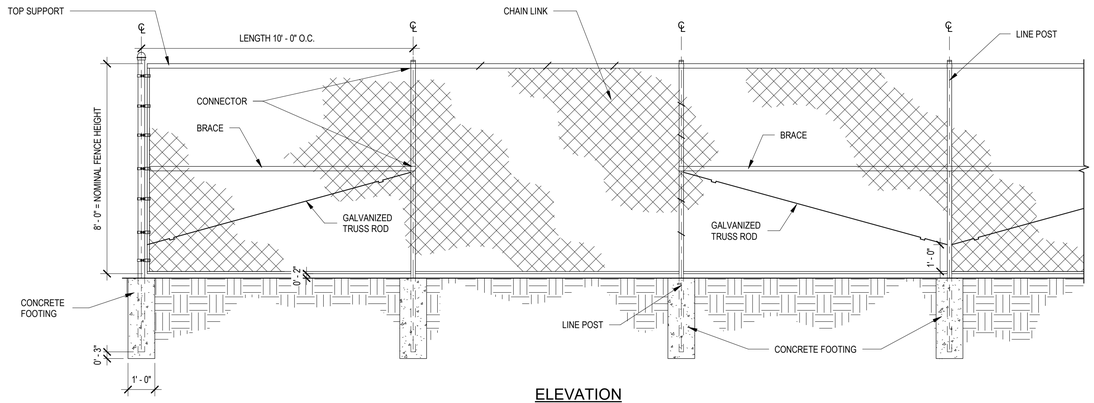
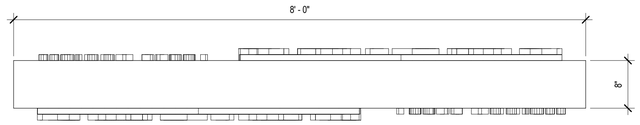
SITE DETAILS

A-011

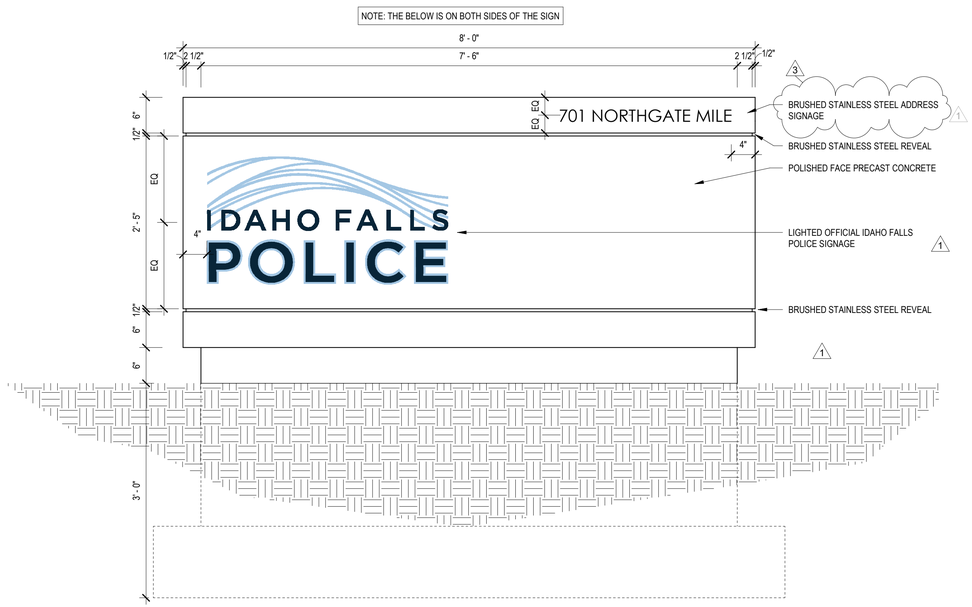


ELEVATION

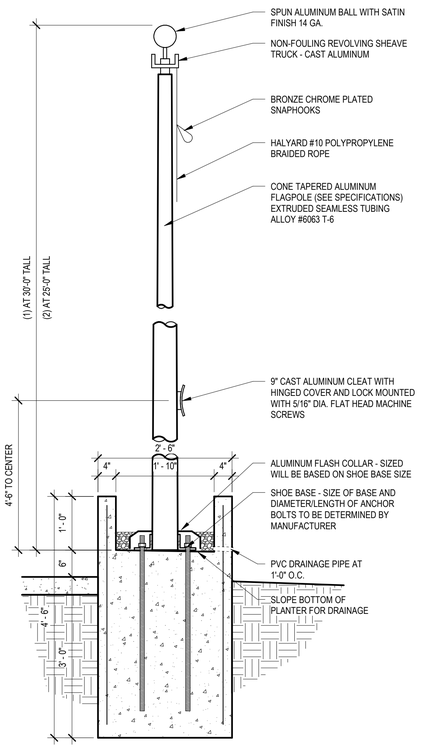
6 A-012 FENCE CHAIN LINK DETAIL AT PERIMETER
3/8" = 1'-0"



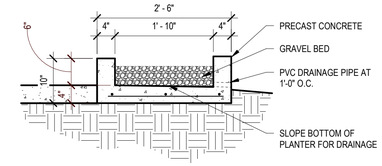
8 A-012 ENTRANCE SIGN PLAN
1" = 1'-0"



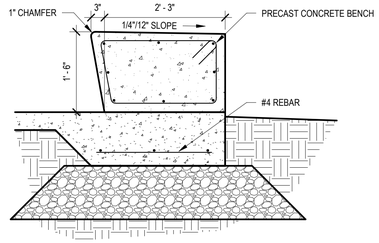
7 A-012 ENTRANCE SIGN DETAIL
1" = 1'-0"



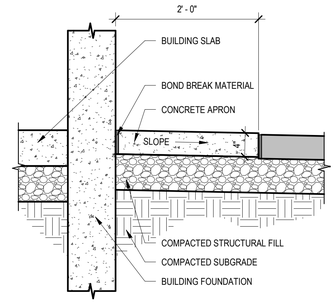
5 A-012 SITE SECTION
3/4" = 1'-0"



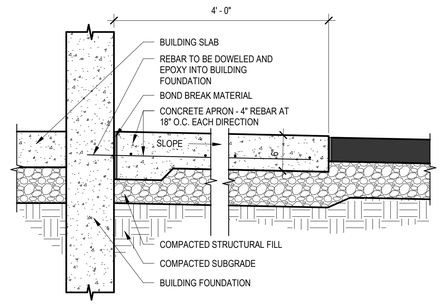
4 A-012 SITE SECTION
3/4" = 1'-0"



3 A-012 SITE SECTION
3/4" = 1'-0"



2 A-012 SITE SECTION
1" = 1'-0"



1 A-012 SITE SECTION
1" = 1'-0"

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IDAHO FALLS, ID

Project No.
1047-20

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3	2022.03.17	ADDENDUM #3

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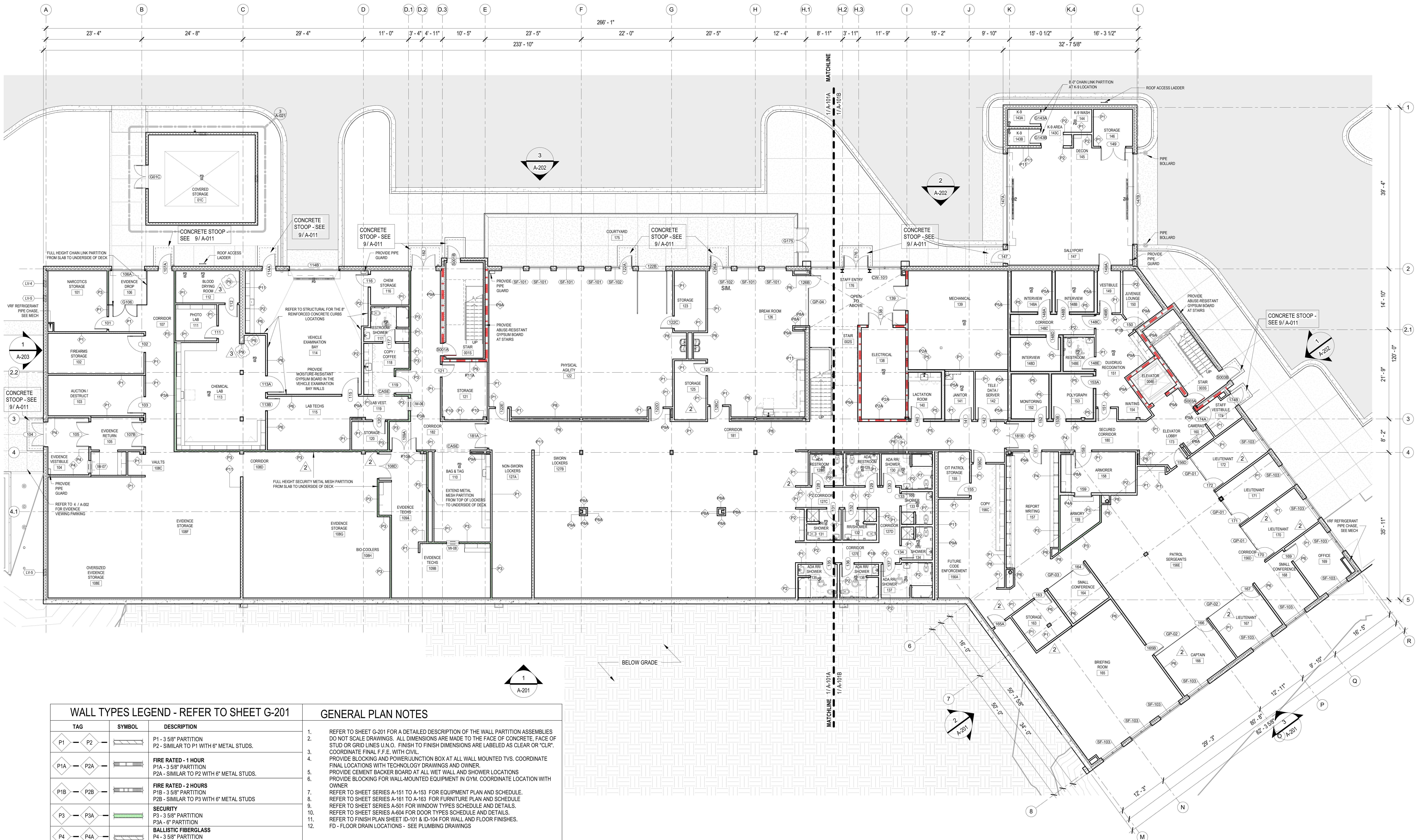
SITE DETAILS

A-012



WALL TYPES LEGEND - REFER TO SHEET G-201

TAG	SYMBOL	DESCRIPTION
P1 — P2		P1 - 3 5/8" PARTITION P2 - SIMILAR TO P1 WITH 6" METAL STUDS.
P1A — P2A		**FIRE RATED - 1 HOUR** P1A - 3 5/8" PARTITION P2A - SIMILAR TO P2 WITH 6" METAL STUDS.
P1B — P2B		**FIRE RATED - 2 HOURS** P1B - 3 5/8" PARTITION P2B - SIMILAR TO P3 WITH 6" METAL STUDS
P3 — P3A		**SECURITY** P3 - 3 5/8" PARTITION P3A - 6" PARTITION
P4 — P4A		**BALLISTIC FIBERGLASS** P4 - 3 5/8" PARTITION P4A - 6" PARTITION
P5 — P5A		**ACOUSTIC RATED PARTITION** P5 - 3 5/8" METAL STUD P5A - SIMILAR TO P5 WITH 6" METAL STUD
P6 — P6A		**SOUND REDUCTION PARTITION** P5 - 3 5/8" METAL STUD P5A - SIMILAR TO P5 WITH 6" METAL STUD
P7 — P8 P9 — P10		**FURRING** P7- 6" " METAL STUD P7A - 3 5/8" PARTIAL HEIGHT P8 - 3 5/8" METAL STUD P8A - 2 1/2" PARTIAL HEIGHT P9 - 2 1/2" METAL STUD P9A - 2 1/2" PARTIAL HEIGHT P10 - 1 5/8" METAL STUD P10A - 1 5/8" PARTIAL HEIGHT
P11 — P11A		**INTERIOR CMU WALL** P11 - 8" NOMINAL CMU P11A - 8" NOMINAL CMU FIRE RATED

GENERAL PLAN NOTES

1. REFER TO SHEET G-201 FOR A DETAILED DESCRIPTION OF THE WALL PARTITION ASSEMBLIES
2. DO NOT SCALE DRAWINGS. ALL DIMENSIONS ARE MADE TO THE FACE OF CONCRETE, FACE OF STUD OR GRID LINES U.N.O. FINISH TO FINISH DIMENSIONS ARE LABELED AS CLEAR OR "CLR".
3. COORDINATE FINAL F.F.E. WITH CIVIL.
4. PROVIDE BLOCKING AND POWER/JUNCTION BOX AT ALL WALL MOUNTED TVS. COORDINATE FINAL LOCATIONS WITH TECHNOLOGY DRAWINGS AND OWNER.
5. PROVIDE CEMENT BACKER BOARD AT ALL WET WALL AND SHOWER LOCATIONS
6. PROVIDE BLOCKING FOR WALL-MOUNTED EQUIPMENT IN GYM. COORDINATE LOCATION WITH OWNER
7. REFER TO SHEET SERIES A-151 TO A-153 FOR EQUIPMENT PLAN AND SCHEDULE.
8. REFER TO SHEET SERIES A-161 TO A-163 FOR FURNITURE PLAN AND SCHEDULE
9. REFER TO SHEET SERIES A-501 FOR WINDOW TYPES SCHEDULE AND DETAILS.
10. REFER TO SHEET SERIES A-604 FOR DOOR TYPES SCHEDULE AND DETAILS.
11. REFER TO FINISH PLAN SHEET ID-101 & ID-104 FOR WALL AND FLOOR FINISHES.
12. FD - FLOOR DRAIN LOCATIONS - SEE PLUMBING DRAWINGS

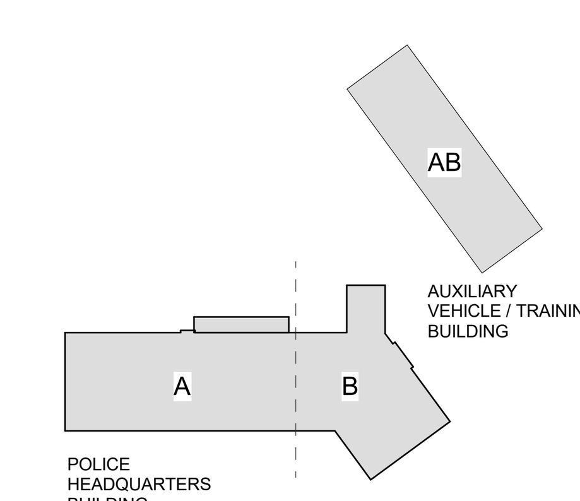
WINDOW TYPES LEGEND

TAG	DESCRIPTION
EW-#	EXTERIOR WINDOW SYSTEMS
IW-#	INTERIOR WINDOW SYSTEMS
SF-#	STOREFRONT SYSTEMS
CW-#	CURTAIN WALL SYSTEMS
GP-#	GLASS PARTITION SYSTEMS

DOOR LEGEND

TAG	DESCRIPTION
###	DOOR SYSTEM

1 A-101 LOWER FLOOR PLAN - OVERALL
3/32" = 1'-0"



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1047-20

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2	2022.03.09	ADDENDUM #2
3	2022.03.17	ADDENDUM #3

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2022.02.10

Drawn by: GT
Checked by: Checker

Project North:

LOWER FLOOR PLAN - OVERALL

A-101

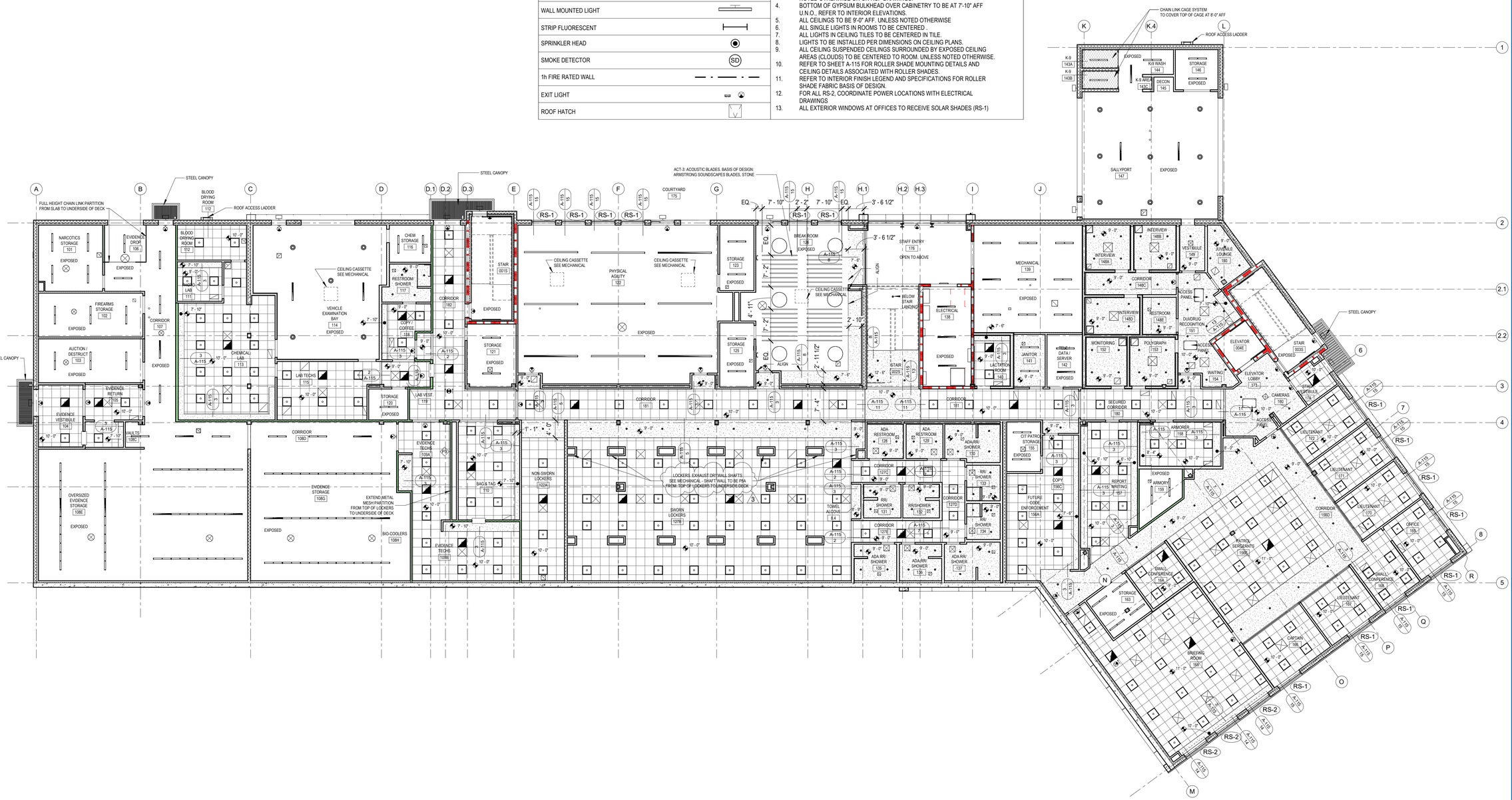
CEILING PLAN LEGEND

CEILING MOUNTED PROJECTOR	
CEILING HEIGHT	
2 x 2 TROFFER	
2 x 4 TROFFER	
SUPPLY AIR REGISTER	
RETURN AIR REGISTER	
EXHAUST AIR REGISTER	
PENDANT FLUORESCENT	
STRIP RECESSED FLUORESCENT LIGHT	
RECESSED LIGHT FIXTURE	
WALL MOUNTED LIGHT	
STRIP FLUORESCENT	
SPRINKLER HEAD	
SMOKE DETECTOR	SD
1h FIRE RATED WALL	
EXIT LIGHT	
ROOF HATCH	

2x2 ACOUSTICAL CEILING GRID	RS-1 SINGLE SOLAR SHADE, MANUAL
SPECIALTY CEILING	RS-2 DUAL SOLAR SHADE, MOTORIZED
GYPSUM BOARD CEILING	
EXPOSED STRUCTURE	

GENERAL NOTES

1. ALL EXPOSED STRUCTURE AND VISIBLE ITEMS ABOVE 12'-0" AFF (UTILITY, DUCT WORK, PIPING, ETC) TO BE PAINTED PER THE FINISHED SCHEDULED. REFER TO INTERIOR DRAWINGS FOR MORE INFORMATION.
2. MOISTURE RESISTANT CEMENT WALL BOARD TO BE USED IN WET LOCATIONS (SHOWERS AND BATHROOMS).
3. BULKHEADS OVER WALL-HUNG CABINETRY TO BE 1'-3" DEEP, UNLESS NOTED OTHERWISE ON ON RCP DRAWINGS.
4. BOTTOM OF GYPSUM BULKHEAD OVER CABINETRY TO BE AT 7'-10" AFF U.N.O.. REFER TO INTERIOR ELEVATIONS.
5. ALL CEILINGS TO BE 9'-0" AFF. UNLESS NOTED OTHERWISE
6. ALL SINGLE LIGHTS IN ROOMS TO BE CENTERED .
7. ALL LIGHTS IN CEILING TILES TO BE CENTERED IN TILE.
8. LIGHTS TO BE INSTALLED PER DIMENSIONS ON CEILING PLANS.
9. ALL CEILING SUSPENDED CEILINGS SURROUNDED BY EXPOSED CEILING AREAS (CLOUDS) TO BE CENTERED TO ROOM. UNLESS NOTED OTHERWISE.
10. REFER TO SHEET A-115 FOR ROLLER SHADE MOUNTING DETAILS AND CEILING DETAILS ASSOCIATED WITH ROLLER SHADES.
11. REFER TO INTERIOR FINISH LEGEND AND SPECIFICATIONS FOR ROLLER SHADE FABRIC BASIS OF DESIGN.
12. FOR ALL RS-2, COORDINATE POWER LOCATIONS WITH ELECTRICAL DRAWINGS
13. ALL EXTERIOR WINDOWS AT OFFICES TO RECEIVE SOLAR SHADES (RS-1)



1 LOWER REFLECTED CEILING PLAN - OVERALL
A-111 3/32" = 1'-0"

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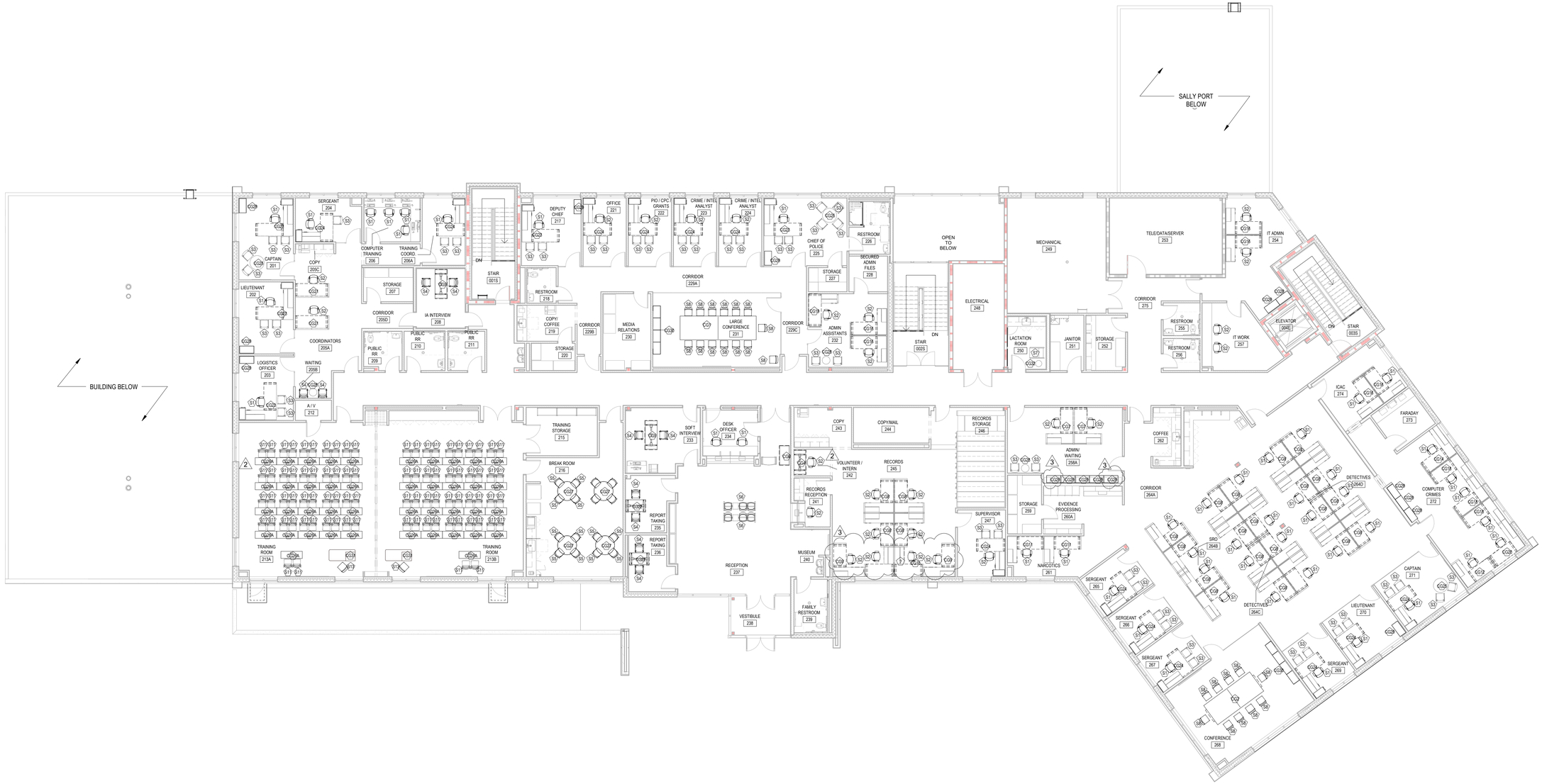
REFLECTED CEILING PLAN - LOWER LEVEL

A-111



1 A-162 FURNITURE PLAN - UPPER LEVEL
3/32" = 1'-0"

Architects Design Group

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Project North:

FURNITURE PLAN - UPPER

A-162

FURNITURE SCHEDULE - NOT IN CONTRACT

TAG	QTY	RESPONSIBILITY	DESCRIPTION	REQUIREMENTS
CG1	1	OPOI	CONFERENCE TABLE - 16' W	POWER AND DATA TO TABLE
CG2	1	OPOI	CONFERENCE TABLE - 12' W	
CG3	2	OPOI	CONFERENCE TABLE - 6' W	POWER AND DATA TO TABLE
CG4	5	OPOI	INTERVIEW TABLE - 5' W	
CG5	3	OPOI	INTERVIEW TABLE - 6' W	
CG6	1	OPOI	SECURITY TABLE - 4' W	
CG7	2	OPOI	L-SHAPED WORKSTATION WITH PRIVACY PANELS	POWER AND DATA TO WORKSTATION
CG8	24	OPOI	L-SHAPED WORKSTATION WITH PRIVACY PANELS	POWER AND DATA TO WORKSTATION
CG9	2	OPOI	L-SHAPED WORKSTATION WITH PRIVACY PANELS	POWER AND DATA TO WORKSTATION
CG10	2	OPOI	L-SHAPED WORKSTATION WITH PRIVACY PANELS	POWER AND DATA TO WORKSTATION
CG11	2	OPOI	L-SHAPED WORKSTATION WITH PRIVACY PANELS	POWER AND DATA TO WORKSTATION
CG12	3	OPOI	L-SHAPED WORKSTATION WITH PRIVACY PANELS	POWER AND DATA TO WORKSTATION
CG13	2	OPOI	L-SHAPED WORKSTATION WITH PRIVACY PANELS	POWER AND DATA TO WORKSTATION
CG14	3	OPOI	L-SHAPED WORKSTATION WITH PRIVACY PANELS	POWER AND DATA TO WORKSTATION
CG15	2	OPOI	L-SHAPED WORKSTATION WITH PRIVACY PANELS	POWER AND DATA TO WORKSTATION
CG16	10	OPOI	L-SHAPED WORKSTATION WITH PRIVACY PANELS	POWER AND DATA TO WORKSTATION
CG17	8	OPOI	L-SHAPED WORKSTATION WITH PRIVACY PANELS	POWER AND DATA TO WORKSTATION
CG18	5	OPOI	L-SHAPED WORKSTATION WITH PRIVACY PANELS	POWER AND DATA TO WORKSTATION
CG19	1	OPOI	L-SHAPED WORKSTATION WITH PRIVACY PANELS	POWER AND DATA TO WORKSTATION
CG20	1	OPOI	L-SHAPED WORKSTATION WITH PRIVACY PANELS	POWER AND DATA TO WORKSTATION
CG21	2	OPOI	RECTANGULAR WORKSTATION WITH WITH PRIVACY PANELS	POWER AND DATA TO WORKSTATION
CG22	2	OPOI	REPORT TABLE - 4' W	
CG23	7	OPOI	LARGE L-SHAPED DESK	POWER AND DATA TO DESK
CG24	17	OPOI	L-SHAPED DESK	POWER AND DATA TO DESK
CG25	4	OPOI	ROUND OFFICE TABLE	
2 CG26A	42	OPOI	TRAINING TABLE, 18" X 54"	POWER AND DATA TO TABLE
CG26B	19	OPOI	TRAINING TABLE, 18" X 54", NO MODESTY	POWER AND DATA TO TABLE
CG27	10	OPOI	DINING TABLE	
CG28	3	OPOI	SIDE TABLE	
CG29 3	21	OPOI	LATERAL FILE, 4 DRAWERS - 36" W x 18" D	
3 CG30	2	OPOI	CREDENZA	
CG31	3	OPOI	LECTERN	A/V INTEGRATION, POWER AND DATA TO LECTERN
CG32	2	OPOI	2 LACTATION SIDE TABLE	
S1	99	OPOI	FLEXIBLE OR ARMLESS TASK CHAIR	
S2 2	88	OPOI	TASK CHAIR	
S3	61	OPOI	GUEST CHAIR	
S4 2	23	OPOI	INTERVIEW CHAIR	
S5	40	OPOI	DINING CHAIR	
S6	2	OPOI	2 TANDEM SEATING, WITH ATTACHED TABLE	
S7	2	OPOI	QUIET ROOM LOUNGE CHAIR	
S8	36	OPOI	CONFERENCE CHAIR	
S9	2	OPOI	STOOL TASK CHAIR - CHEMICAL LAB	
S10	1	OPOI	BENCH	
S11	122	OPOI	TRAINING CHAIR	
S12	1	OPOI	STOOL TASK CHAIR - COUNTER HEIGHT	
S13 2	3	OPOI	STOOL TASK CHAIR ARMLESS - COUNTER HEIGHT	
2 S14	3	OPOI	STOOL TASK CHAIR ARMLESS WITH SOFT CASTERS - COUNTER HEIGHT	

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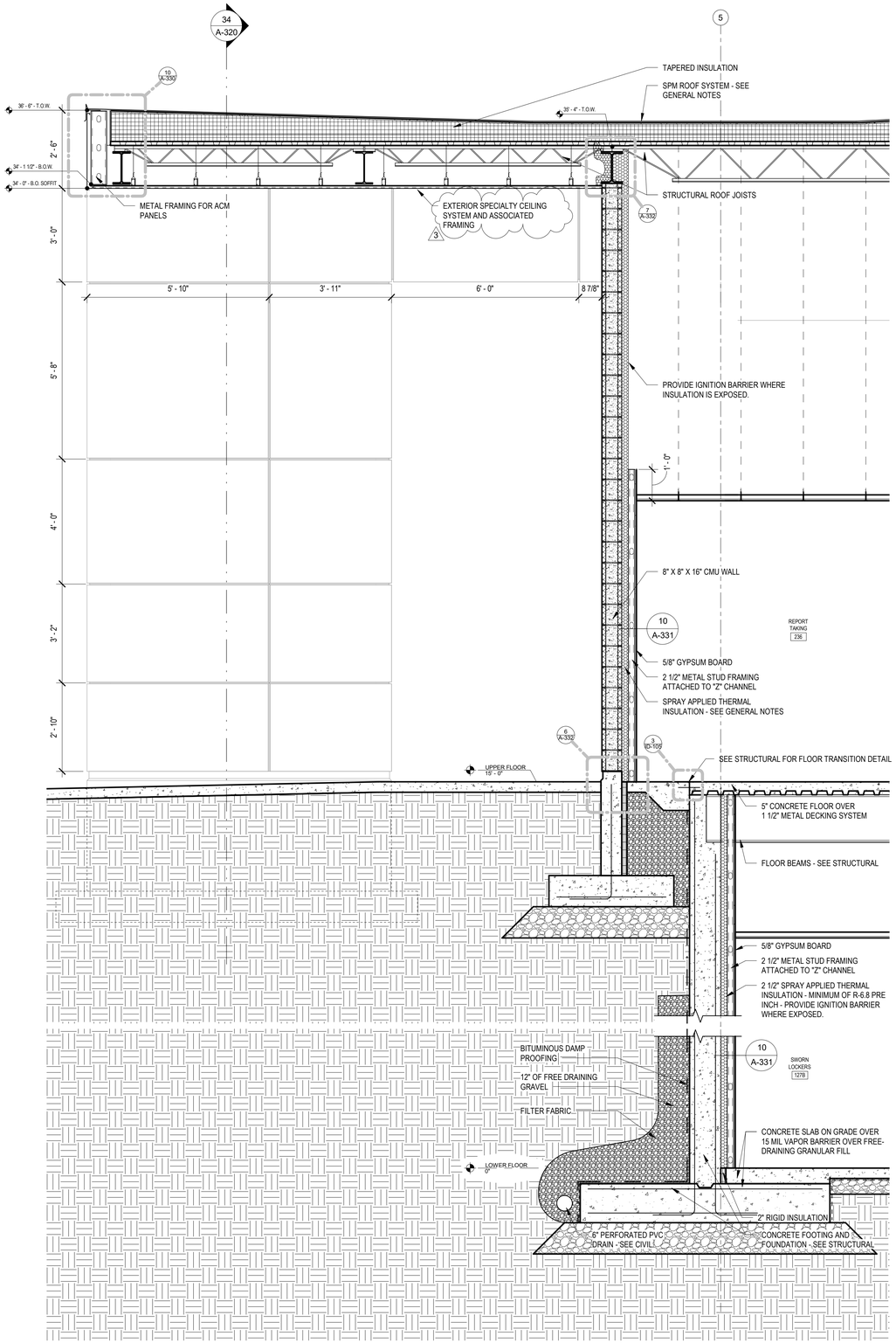
2022.02.10

Drawn by: NG
Checked by: Checker

FURNITURE SCHEDULE

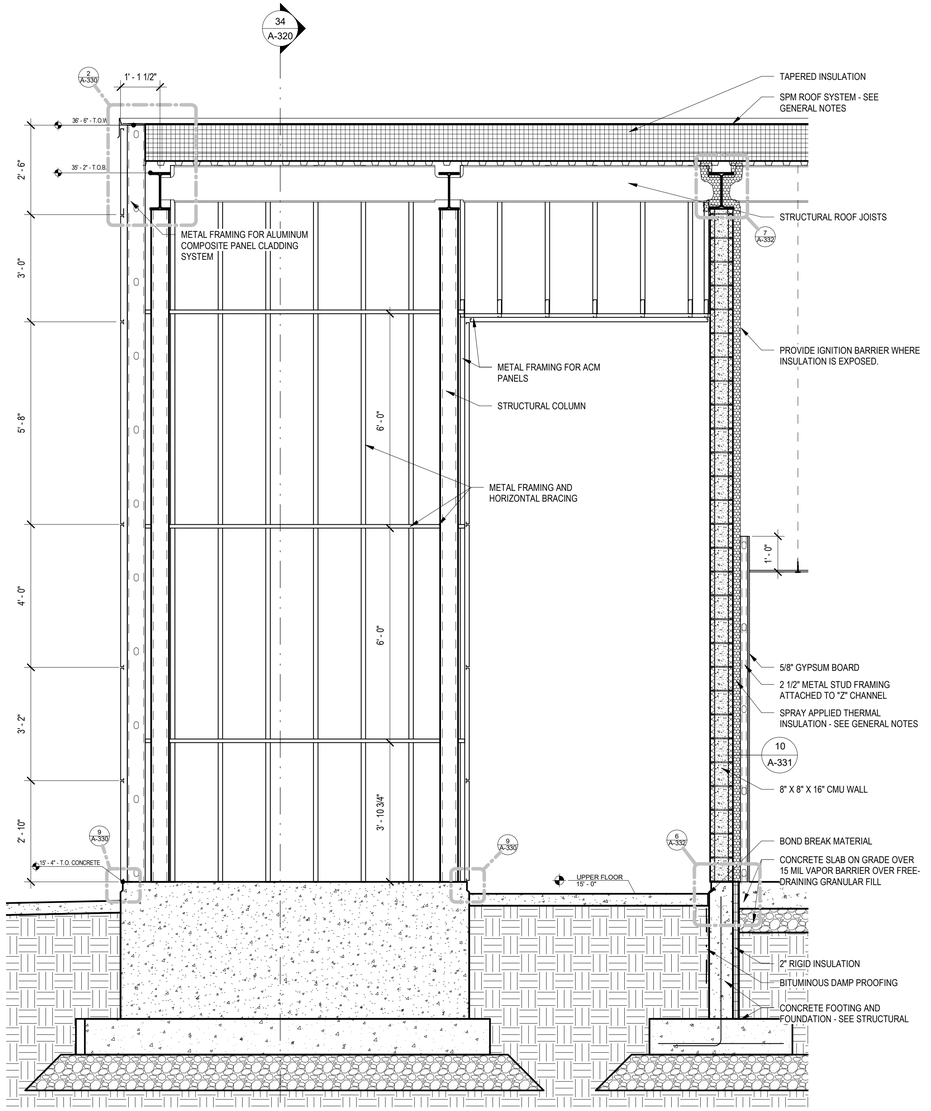
A-163



6 A-312 WALL SECTION
1/2" = 1'-0"

WALL SECTION GENERAL NOTES

1. ALL EXPOSED STRUCTURAL STEEL SHALL BE PAINTED.
2. LIQUID APPLIED WEATHER BARRIER SHALL BE APPLIED TO ALL PLYWOOD ON BUILD-OUTS AND ON MASONRY WALLS BEHIND THE ALUMINUM PANEL CLADDING SYSTEM. AN EXTERIOR SEALANT SHALL BE APPLIED TO ALL EXPOSED CMU.
3. PROVIDE BOND BREAK MATERIAL BETWEEN CONCRETE SLAB-ON-GRADE AND CONCRETE/MASONRY WALLS.
4. THE REQUIRED METAL STUD THICKNESS FOR THE ALUMINUM PANEL CLADDING SYSTEM SHALL BE VERIFIED WITH THE ALUMINUM PANEL MANUFACTURER. SEE SPECIFICATION OF MINIMUM THICKNESS.
5. COMPACTED STRUCTURAL FILL AND FREE-DRAINING GRANULAR FILL ARE FOR REFERENCE ONLY. SEE THE GEOTECHNICAL ENGINEERING REPORT FOR FOOTING AND SLAB SUBGRADE REQUIREMENTS.
6. SPRAY APPLIED THERMAL INSULATION - 2 1/2" SPRAY APPLIED THERMAL INSULATION OR R-17 MINIMUM - WHERE EXPOSED, PROVIDE COMPATIBLE IGNITION BARRIER PER MANUFACTURERS REQUIREMENTS.
7. SPM ROOF SYSTEM - SINGLE PLY MEMBRANE ROOF OVER 1/2" COVER BOARD OVER RIGID INSULATION (R-32 MIN.) OVER METAL DECKING.
8. ACM PANELS - ALUMINUM COMPOSITE PANEL CLADDING SYSTEM (NON INSULATING - DRY SEAL)



5 A-312 WALL SECTION
1/2" = 1'-0"

Architects Design Group

Ian A. Reeves, A.I.A.
Susan M. Gantt, A.I.A., LEED AP
Rodney McManus, LEED AP
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Signature and Seal:

LICENSED ARCHITECT
AR-986743
2022.03.17
IAN A. REEVES
STATE OF IDAHO

IDAHO FALLS POLICE HEADQUARTERS

IDAHO FALLS, ID

Project No.
1047-20

Revisions:
3 2022.03.17 ADDENDUM #3

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EXTERIOR WALL SECTIONS

A-312

WALL SECTION GENERAL NOTES

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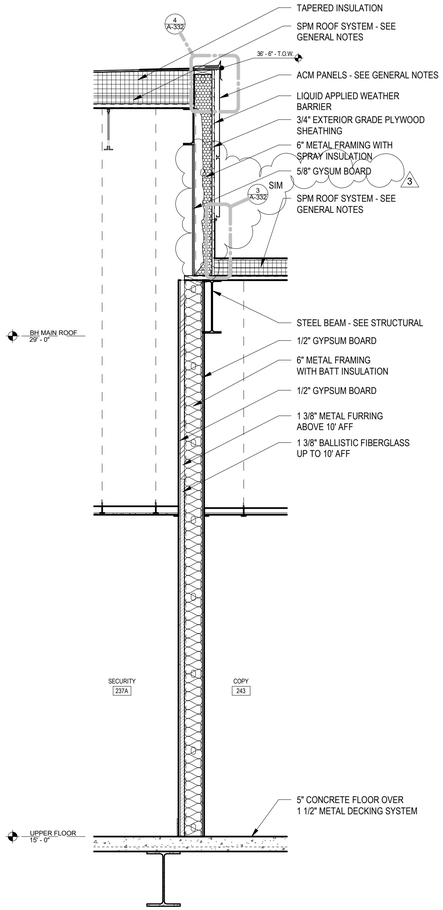
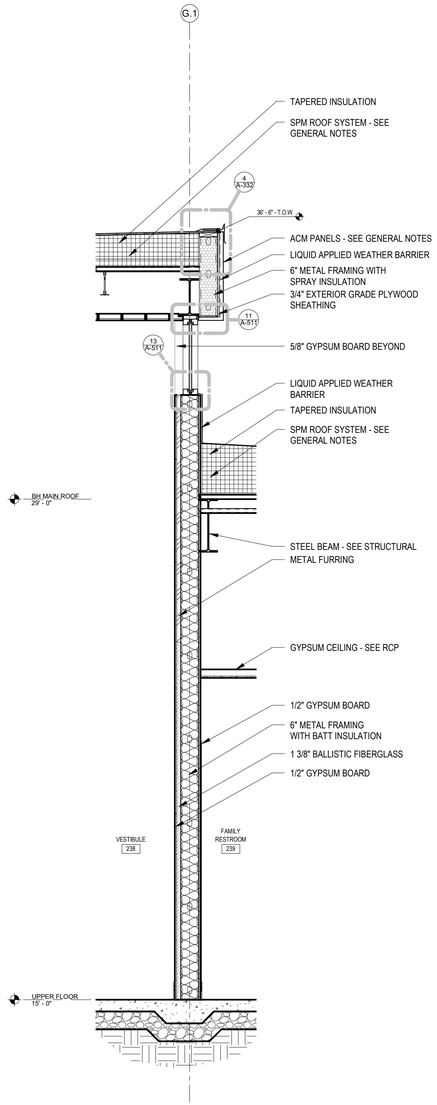
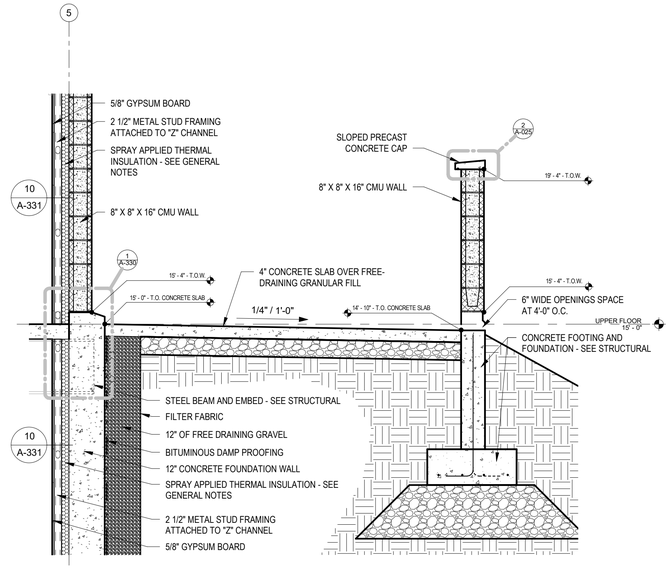


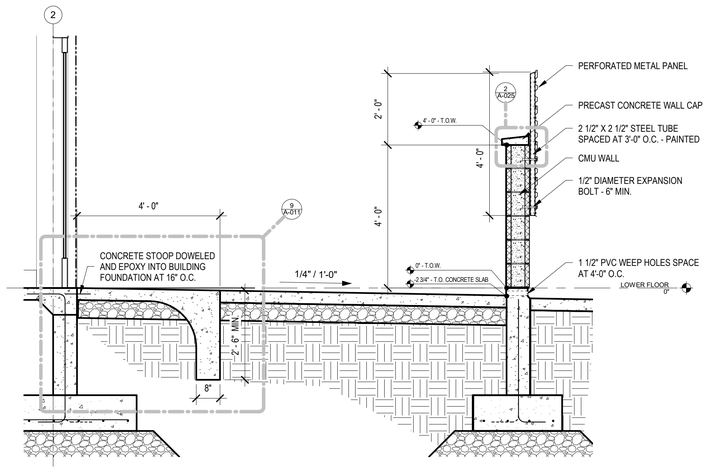
38 A-320 WALL SECTION
1/2" = 1'-0"



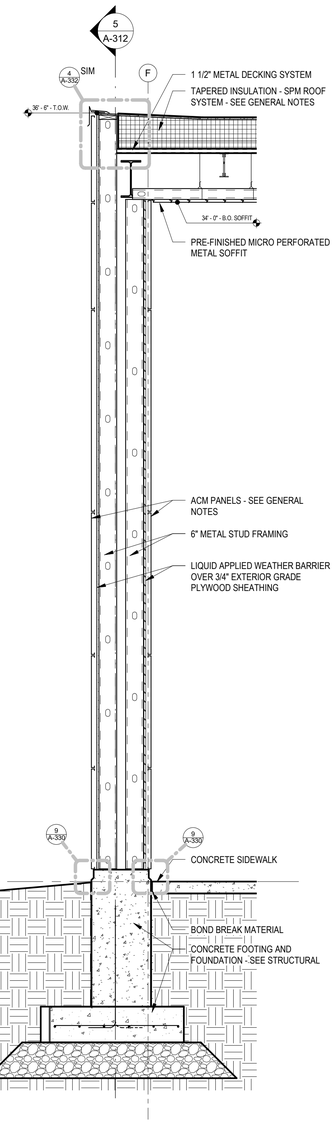
37 A-320 WALL SECTION
1/2" = 1'-0"



36 A-320 WALL SECTION
1/2" = 1'-0"



35 A-320 WALL SECTION
1/2" = 1'-0"



34 A-320 WALL SECTION
1/2" = 1'-0"

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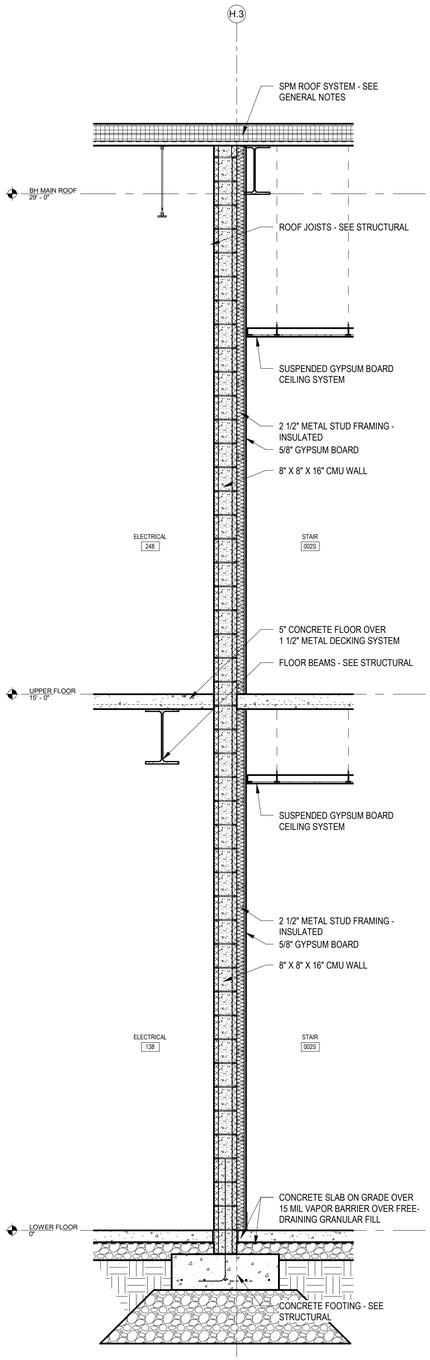
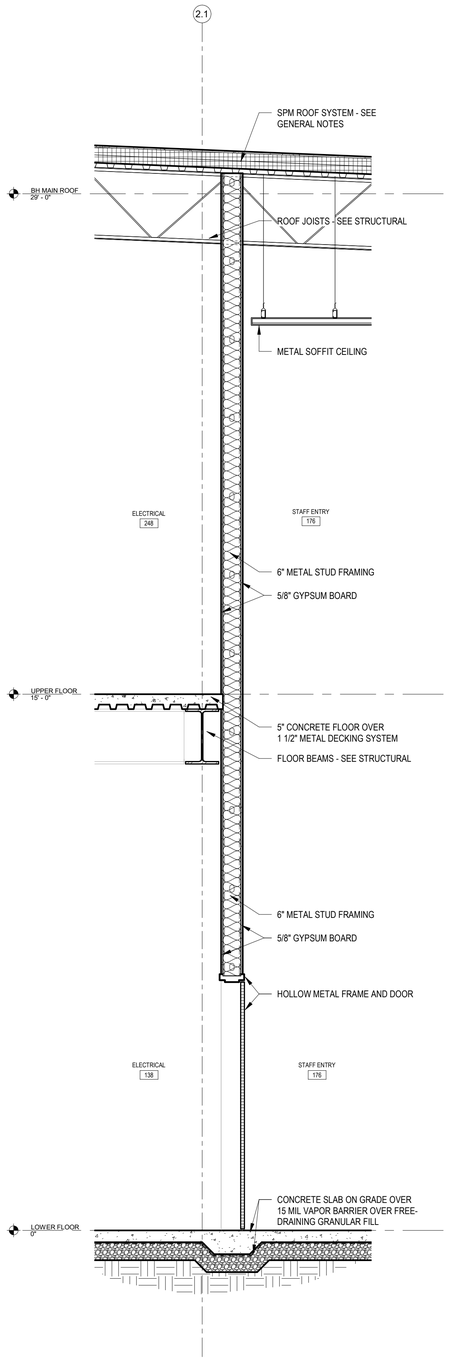
EXTERIOR WALL SECTIONS

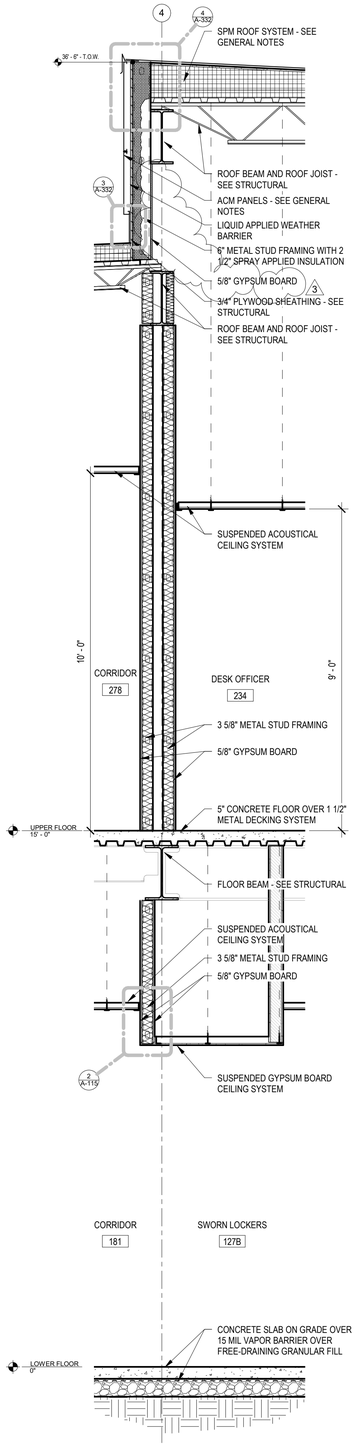
A-320



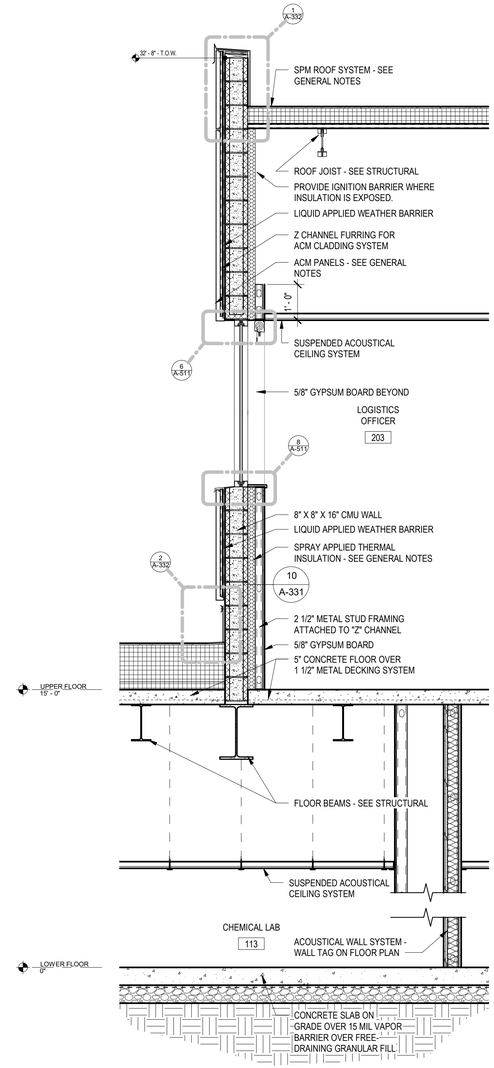
42 A-321 WALL SECTION
1/2" = 1'-0"



41 A-321 WALL SECTION
1/2" = 1'-0"



40 A-321 WALL SECTION
1/2" = 1'-0"



39 A-321 WALL SECTION
1/2" = 1'-0"

WALL SECTION GENERAL NOTES

1. ALL EXPOSED STRUCTURAL STEEL SHALL BE PAINTED.
2. LIQUID APPLIED WEATHER BARRIER SHALL BE APPLIED TO ALL PLYWOOD ON BUILD-OUTS AND ON MASONRY WALLS BEHIND THE ALUMINUM PANEL CLADDING SYSTEM. AN EXTERIOR SEALANT SHALL BE APPLIED TO ALL EXPOSED CMU.
3. PROVIDE BOND BREAK MATERIAL BETWEEN CONCRETE SLAB-ON-GRADE AND CONCRETE/MASONRY WALLS.
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EXTERIOR AND INTERIOR WALL SECTIONS

A-321

WALL DETAILS GENERAL NOTES

1. REFERENCE ALUMINUM COMPOSITE PANEL CLADDING MANUFACTURER'S STANDARD DETAILS. ALL FRAMING FOR ACM PANEL BUILD-OUTS SHALL BE FRAMED AT 24" O.C. ALL PLYWOOD SHEATHING SHALL BE TREATED EXTERIOR GRADE PLYWOOD.
2. REFERENCE SINGLE PLY MEMBRANE MANUFACTURER'S STANDARD DETAILS.
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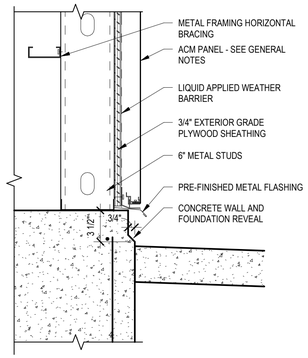
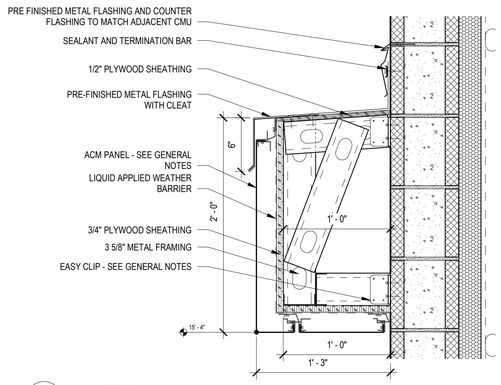
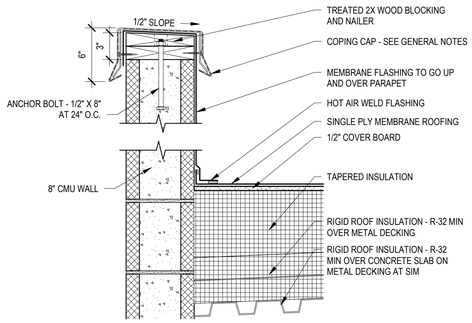
4. EASY CLIP - 2" X 2" X 5 1/2" EASY CLIP D-SERIES D685 (CLARKDIETRICH OR SIMILAR) WITH (2) 1/4"x1 3/4" HILTI KWIK-CONCRETE SCREWS INTO MASONRY WALL AND (4) #10 SCREWS INTO STEEL FRAMING AT EACH STEEL FRAME (24" O.C.). VERIFY WITH STRUCTURAL DRAWINGS.
5. REFERENCE WALL SECTIONS AND ROOF PLAN FOR TOP OF WALL/MASONRY/CONCRETE ELEVATIONS.
6. GRAVEL STOP DRIP EDGE - PVC WELDABLE METAL GRAVEL STOP DRIP EDGE WITH PRE-FINISHED BREAK METAL (TO MATCH ALUMINUM PANEL COLOR) CLIPPED TO WELDABLE DRIP EDGE.
7. COPING CAP - PRE-FINISHED METAL COPING COVER (12' LENGTHS) - 8" WIDE CONCEALED SPLICE PLATE AT EACH JOINT.
8. ACM PANEL - ALUMINUM COMPOSITE PANEL CLADDING SYSTEM (NON INSULATING - DRY SEAL). THE REVEAL BETWEEN PANELS SHALL BE 3/4".
9. 2 1/2" METAL STUD SHALL BE ATTACHED TO THE MASONRY WILL WITH METAL CLIPS ("Z" CHANNEL) AT 4'-0" O.C. VERTICALLY.



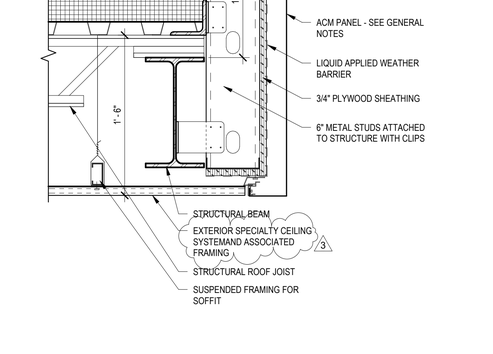
9 A-330 WALL DETAIL
1 1/2" = 1'-0"



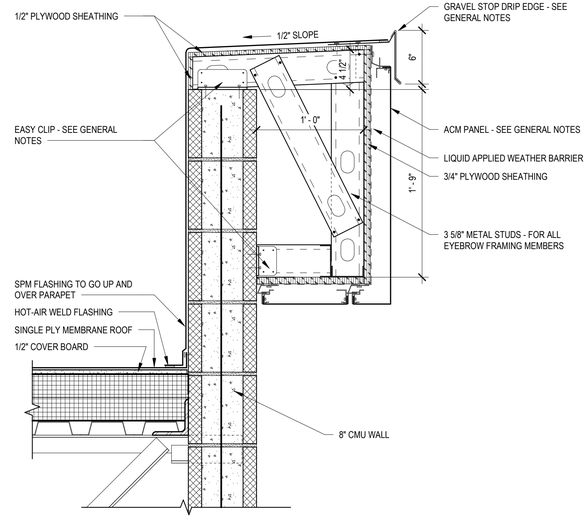
6 A-330 WALL DETAIL
1 1/2" = 1'-0"



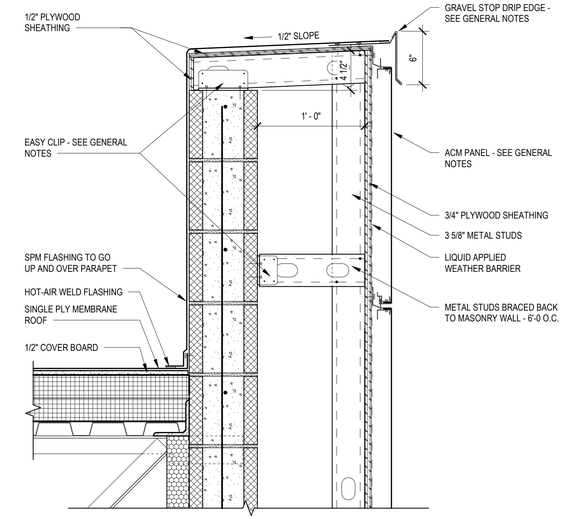
3 A-330 WALL DETAIL
1 1/2" = 1'-0"



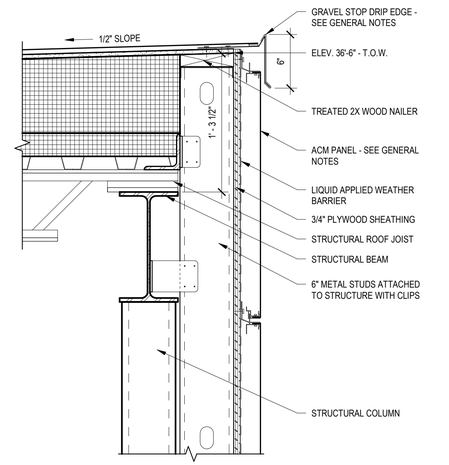
11 A-330 WALL DETAIL
1 1/2" = 1'-0"



8 A-330 WALL DETAIL
1 1/2" = 1'-0"

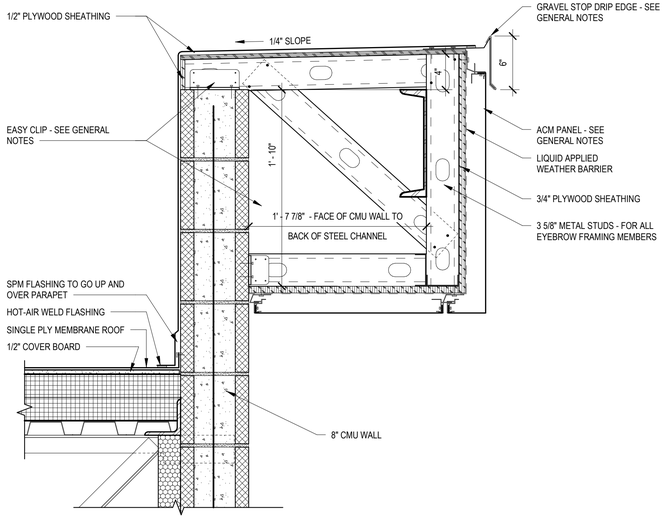


5 A-330 WALL DETAIL
1 1/2" = 1'-0"

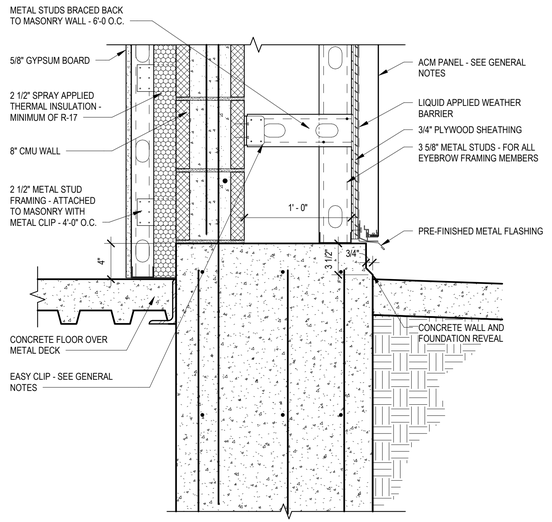


2 A-330 WALL DETAIL
1 1/2" = 1'-0"

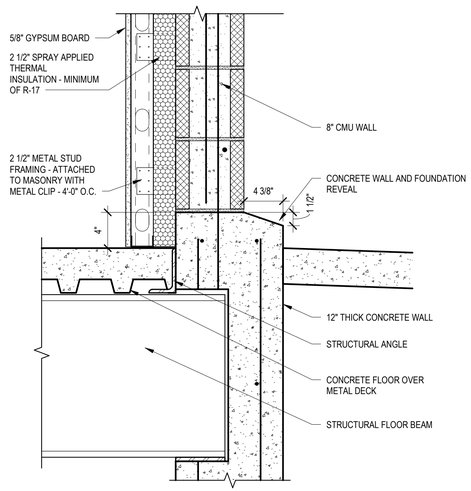
10 A-330 WALL DETAIL
1 1/2" = 1'-0"



7 A-330 WALL DETAIL
1 1/2" = 1'-0"



4 A-330 WALL DETAIL
1 1/2" = 1'-0"



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ROOF + VERTICAL DETAILS

A-330

WALL DETAILS GENERAL NOTES

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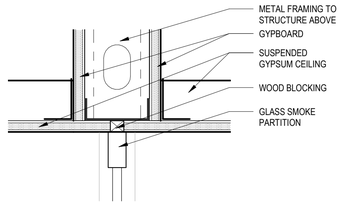
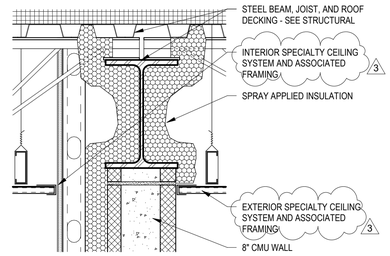
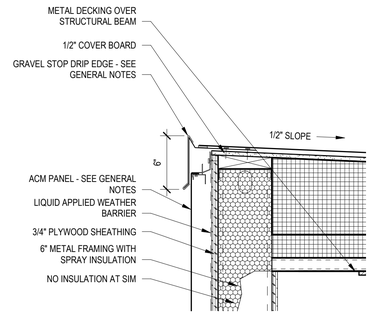


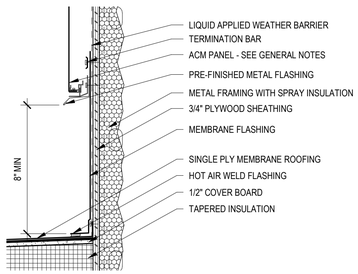
9 A-332 SMOKE PARTITION HEAD
3" = 1'-0"



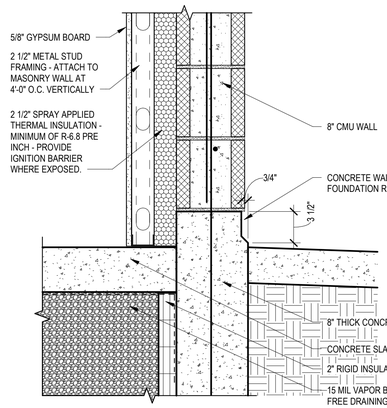
7 A-332 WINDOW HEADER
1 1/2" = 1'-0"



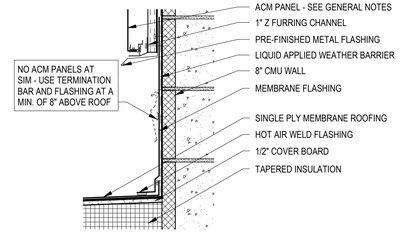
4 A-332 WALL DETAIL
1 1/2" = 1'-0"



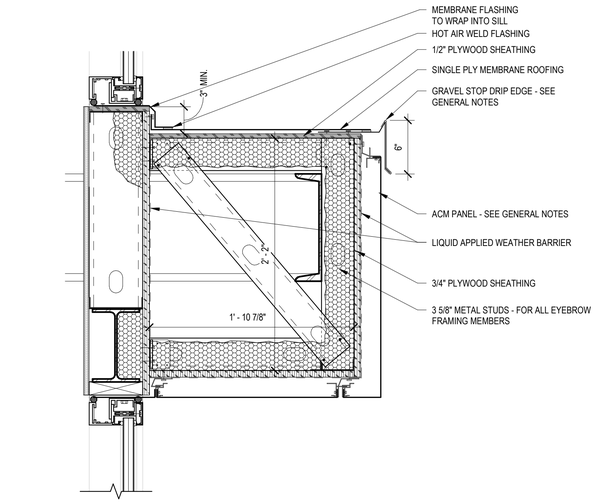
3 A-332 FLASHING DETAIL
1 1/2" = 1'-0"



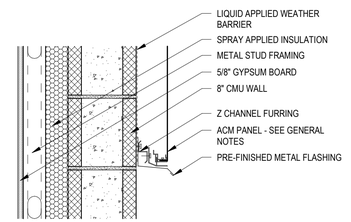
6 A-332 WALL DETAIL
1 1/2" = 1'-0"



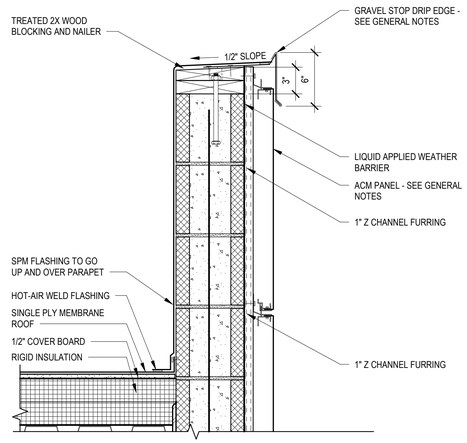
2 A-332 FLASHING DETAIL
1 1/2" = 1'-0"



8 A-332 WALL DETAIL
1 1/2" = 1'-0"



5 A-332 WALL DETAIL
1 1/2" = 1'-0"



1 A-332 PARAPET WALL DETAIL
1 1/2" = 1'-0"

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LICENSED ARCHITECT AR-986743
2022.03.17
IAN A. REEVES, STATE OF IDAHO

IDAHO FALLS POLICE HEADQUARTERS

IDAHO FALLS, ID

Project No.
1047-20

Revisions:

3	2022.03.17	ADDENDUM #3

BID ISSUE

Issue Date:
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Drawn by: BTH/DGW
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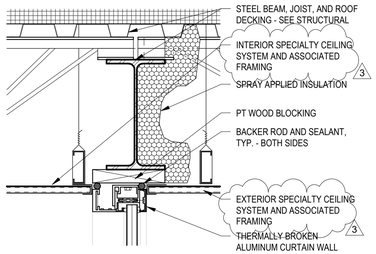
ROOF + VERTICAL DETAILS

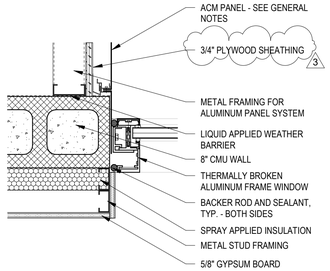
A-332

WALL DETAILS GENERAL NOTES

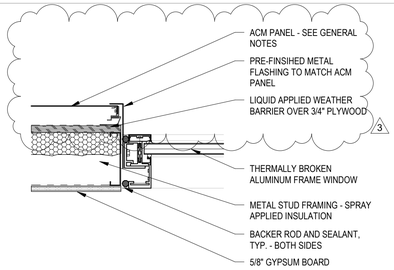
1. REFERENCE ALUMINUM COMPOSITE PANEL CLADDING MANUFACTURER'S STANDARD DETAILS. ALL FRAMING FOR ACM PANEL BUILD-OUTS SHALL BE FRAMED AT 24" O.C. ALL PLYWOOD SHEATHING SHALL BE TREATED EXTERIOR GRADE PLYWOOD.
2. REFERENCE SINGLE PLY MEMBRANE MANUFACTURER'S STANDARD DETAILS.
3. LIQUID APPLIED WEATHER BARRIER SHALL BE APPLIED TO ALL PLYWOOD ON BUILD-OUTS AND ON MASONRY WALLS BEHIND THE ALUMINUM PANEL CLADDING SYSTEM. AN EXTERIOR SEALANT SHALL BE APPLIED TO ALL EXPOSED CMU.
4. EASY CLIP - 2" X 2" X 5 1/2" EASY CLIP D-SERIES D685 (CLARKDIETRICH OR SIMILAR) WITH (2) 1/4"x1 3/4" HILTI KWIK-CONCRETE SCREWS INTO MASONRY WALL AND (4) #10 SCREWS INTO STEEL FRAMING AT EACH STEEL FRAME (24" O.C.). VERIFY WITH STRUCTURAL DRAWINGS.
5. REFERENCE WALL SECTIONS AND ROOF PLAN FOR TOP OF WALL/MASONRY/CONCRETE ELEVATIONS.
6. GRAVEL STOP DRIP EDGE - PVC WELDABLE METAL GRAVEL STOP DRIP EDGE WITH PRE-FINISHED BREAK METAL (TO MATCH ALUMINUM PANEL COLOR) CLIPPED TO WELDABLE DRIP EDGE.
7. COPING CAP - PRE-FINISHED METAL COPING COVER (12' LENGTHS) - 8" WIDE CONCEALED SPLICE PLATE AT EACH JOINT.
8. ACM PANEL - ALUMINUM COMPOSITE PANEL CLADDING SYSTEM (NON INSULATING - DRY SEAL). THE REVEAL BETWEEN PANELS SHALL BE 3/4".
9. 2 1/2" METAL STUD SHALL BE ATTACHED TO THE MASONRY WILL WITH METAL CLIPS ("Z" CHANNEL) AT 4'-0" O.C. VERTICALLY.



20 A-511 WINDOW HEADER
1 1/2" = 1'-0"



15 A-511 WINDOW JAMB
1 1/2" = 1'-0"



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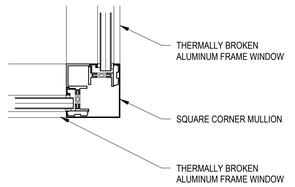

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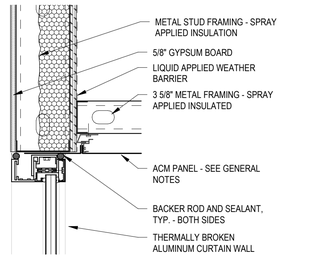

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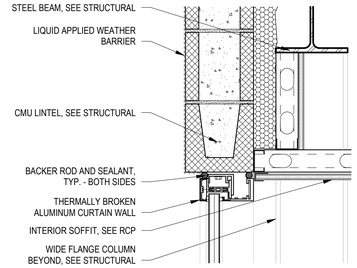

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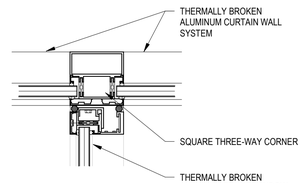
1 1/2" = 1'-0"



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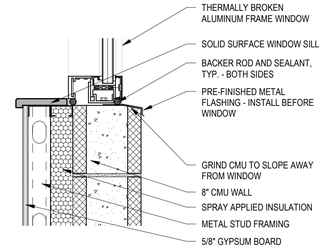
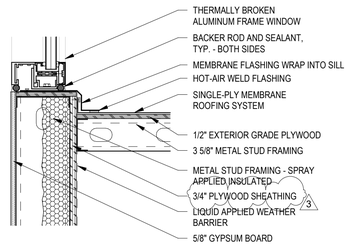
1 1/2" = 1'-0"



4 A-511 WINDOW SILL
1 1/2" = 1'-0"



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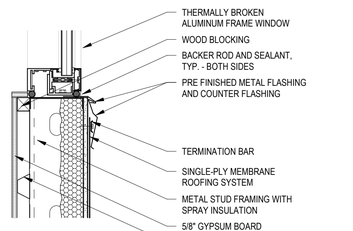

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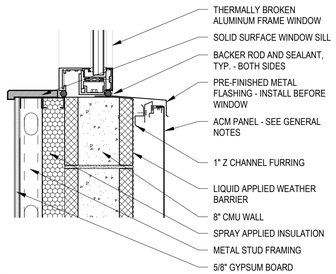

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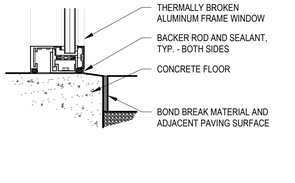

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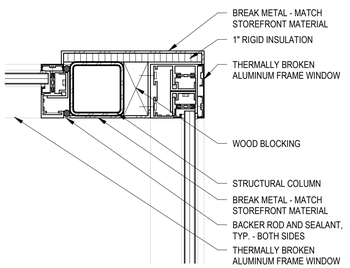

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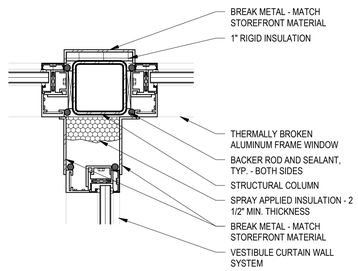

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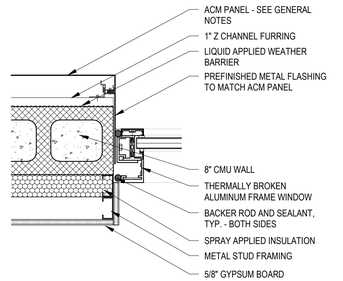

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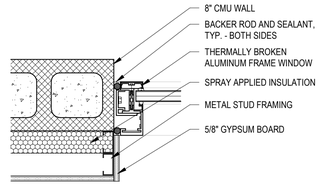
1 1/2" = 1'-0"



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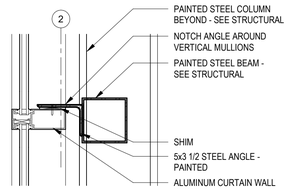
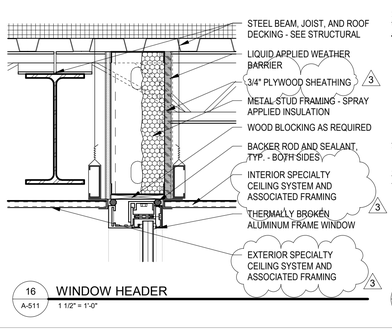
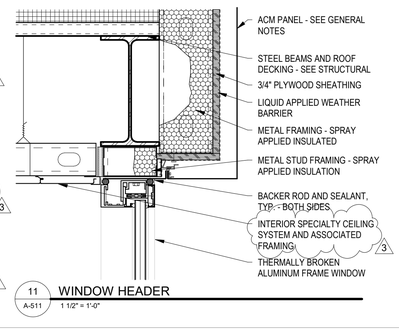
1 1/2" = 1'-0"



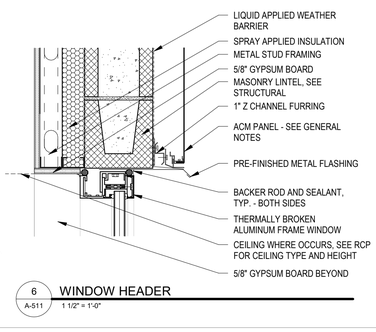
21 A-511 Detail 5
1 1/2" = 1'-0"



16 A-511 WINDOW HEADER
1 1/2" = 1'-0"



11 A-511 WINDOW HEADER
1 1/2" = 1'-0"



6 A-511 WINDOW HEADER
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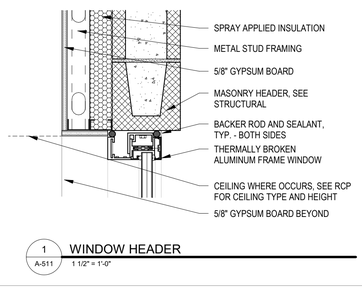

1 A-511 WINDOW HEADER
1 1/2" = 1'-0"

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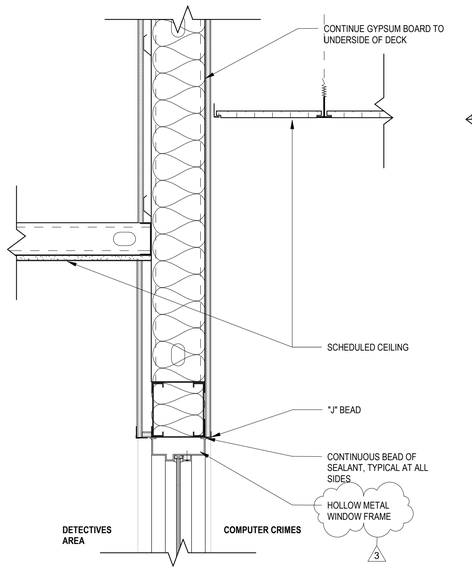
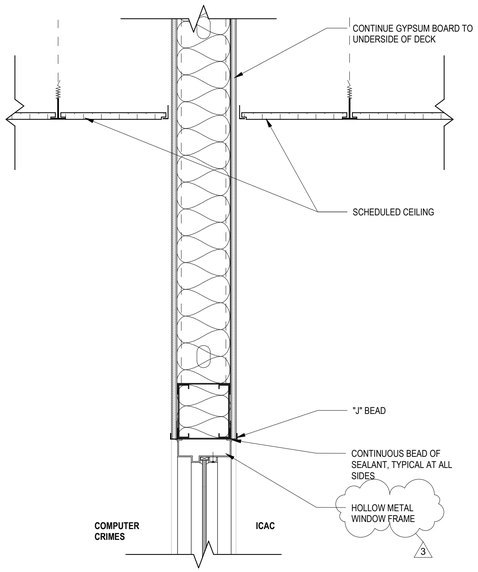
WINDOW DETAILS

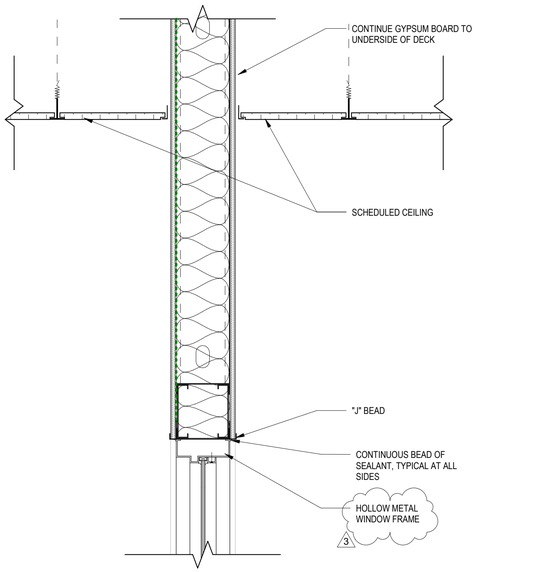
A-511



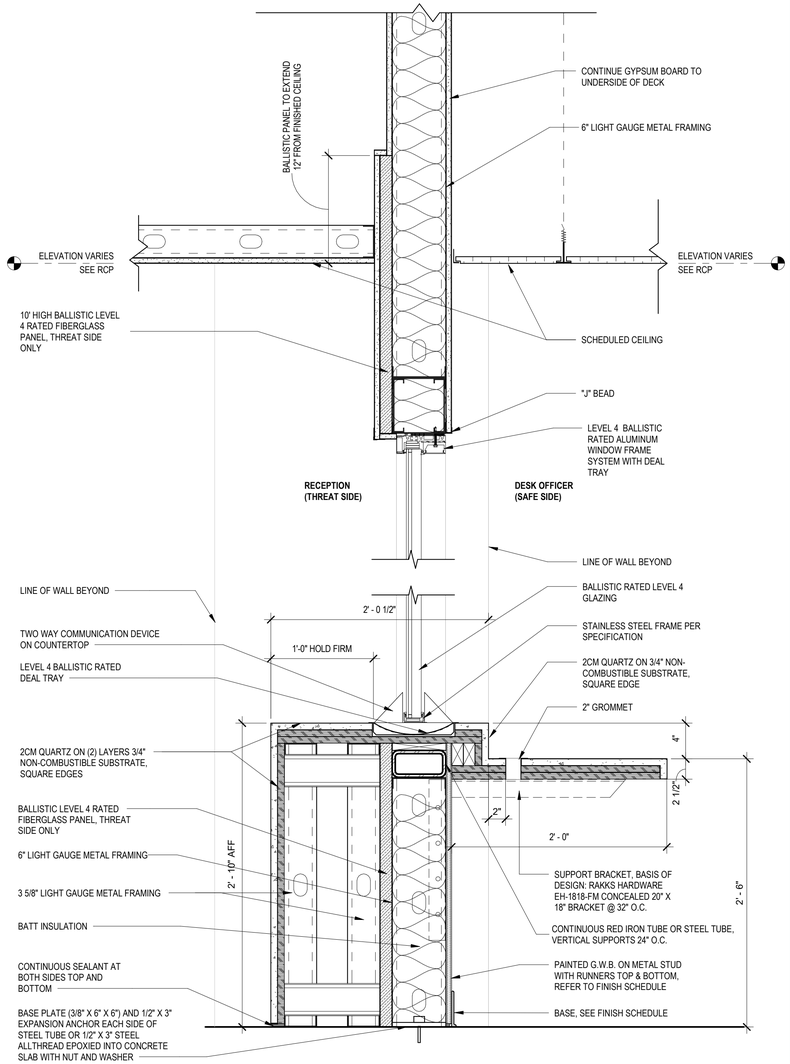
4 A-521 WINDOW DETAIL - IW-04 - ACOUSTICAL PARTITION
1 1/2" = 1'-0"



3 A-521 COMPUTER CRIMES AND ICAC WINDOW DETAIL - IW-05
1 1/2" = 1'-0"



2 A-521 WINDOW DETAIL - IW-06/ IW-08 - SECURITY WALL
1 1/2" = 1'-0"



1 A-521 ADA RECEPTION COUNTER WINDOW DETAIL AT DESK OFFICER AND RECORDS RECEPTION - IW-01/ IW-03
1 1/2" = 1'-0"

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SPECIALTY WINDOW DETAILS

A-521

DOOR SCHEDULE - STAIRS

DOOR						FRAME								
DOOR NO.	DOOR TYPE	WIDTH	HEIGHT	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FIRE RATING	HEAD	JAMB	SILL	ACCESS CONTROL	HARDWARE SET	COMMENTS
S001A	F	3' - 0"	7' - 0"	WD	PT	F2	HM	PT	60 MIN	7/A-611	6/A-611	5/A-611	CR	14.0	
S001B	F	3' - 0"	7' - 0"	HM	PT	F2	HM	PT		10/A-611	9/A-611	8/A-611		12.0	
S001C	F	3' - 0"	7' - 0"	WD	PT	F2	HM	PT	60 MIN	7/A-611	6/A-611	5/A-611	CR	15.0	
S002S	DBL AG1	6' - 0"	7' - 2"	GLZ	-	-	-	-		*	*	*	CR	55.0	*PER DOOR MANUFACTURER
S003A	F	3' - 0"	7' - 0"	WD	PT	F2	HM	PT	60 MIN	7/A-611	6/A-611	5/A-611	CR	14.0	
S003B	F	3' - 0"	7' - 0"	HM	PT	F2	HM	PT		10/A-611	9/A-611	8/A-611		12.0	
S003C	F	3' - 0"	7' - 0"	WD	PT	F2	HM	PT	60 MIN	7/A-611	6/A-611	5/A-611	CR	15.0	

DOOR SCHEDULE - GATES

DOOR						FRAME								
DOOR NO.	DOOR TYPE	WIDTH	HEIGHT	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FIRE RATING	HEAD	JAMB	SILL	ACCESS CONTROL	HARDWARE SET	COMMENTS
G01A	DBL - GATE 1	12' - 0"	12' - 0"	CHAIN LINK	STL		STL							67.0	
G01B	GATE 1	10' - 0"	12' - 0"	CHAIN LINK	STL	-	STL	PT						67.0	
G01C	DBL L	5' - 8"	7' - 0"	HM	PT	F2	HM	PT					CK	7.0	
G011	GATE 1	3' - 0"	7' - 0"	CHAIN LINK	STL	-	STL						CR	68.0	
G011A	GATE 3	26' - 0"	8' - 0"	CHAIN LINK	STL	-	STL						CK	66.0	SEE DETAIL 1/A-011
G012	GATE 1	3' - 0"	7' - 0"	CHAIN LINK	STL	-	STL						CR	68.0	
G012A	GATE 4	30' - 0"	8' - 0"	CHAIN LINK	STL	-	STL						CK	66.0	SEE DETAIL 5/A-011
G013	GATE 1	3' - 0"	7' - 0"	CHAIN LINK	STL	-	STL						CR	68.0	
G013A	GATE 4	30' - 0"	8' - 0"	CHAIN LINK	STL	-	STL						CK	66.0	SEE DETAIL 5/A-011
G106	DBL - GATE 1	6' - 0"	7' - 0"	CHAIN LINK	STL		STL	-					CK	63.0	
G143A	GATE 1	3' - 0"	7' - 0"	CHAIN LINK	STL		STL	-						63.0	
G143B	GATE 1	3' - 0"	7' - 0"	CHAIN LINK	STL		STL	-						63.0	
G175	GATE 2	6' - 0"	5' - 10"	STL 3	PT		STL 3	PT						64.0	

GENERAL NOTES

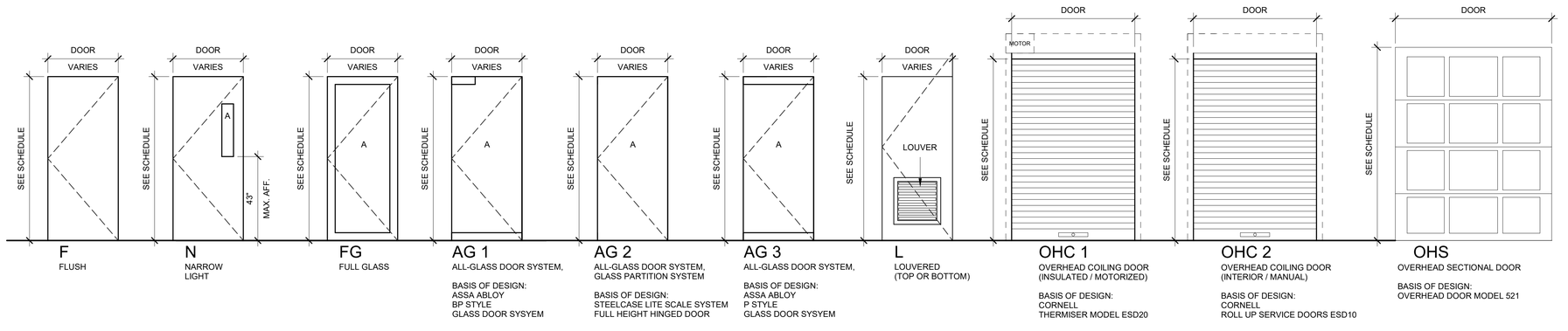
1. REFER TO FINISH SCHEDULE FOR ALL FINISH MATERIAL AND FINISH LOCATIONS
2. HOLLOW METAL FRAMES IN CMU/CONCRETE WALLS TO BE BITUMINOUS BACK COATED AND GROUT FILLED. PROVIDE CONDUIT RACEWAYS FOR ELECTRONIC WIRING PRIOR TO FRAME GROUTING. PROVIDE ADDITIONAL STIFFENING / SUPPORT AS RECOMMENDED BY THE DOOR / FRAME MANUFACTURER.
3. REFER TO TECHNOLOGY SHEETS FOR EXACT LOCATIONS OF CARD READERS.
4. ALL DOORS TO BE 1 3/4" UNLESS NOTED OTHERWISE.
5. FIELD VERIFY ALL DIMENSIONS.
6. FIRE RATED GLAZING SHALL NOT BE WIRED GLASS.
7. SOUND ATTENUATED DOORS TO HAVE A MINIMUM STC 50 RATING UNLESS NOTED OTHERWISE.
8. FOR SOUND ATTENUATED DOORS DO NOT UNDERCUT MORE THAN 3/4". SEE SPECIFICATIONS.
9. CONTRACTOR TO COORDINATE DOORS & FRAMES WITH HARDWARE, SECURITY DEVICES, POWER AND RELATED ITEMS TO ENSURE COMPLETE INSTALLATION AND FUNCTIONAL OPERATION.
10. ALL MOTORIZED OVERHEAD COILING DOORS TO HAVE MANUAL OVERRIDE.
11. REFER TO SITE PLAN SHEET A-001 FOR GATE LOCATIONS

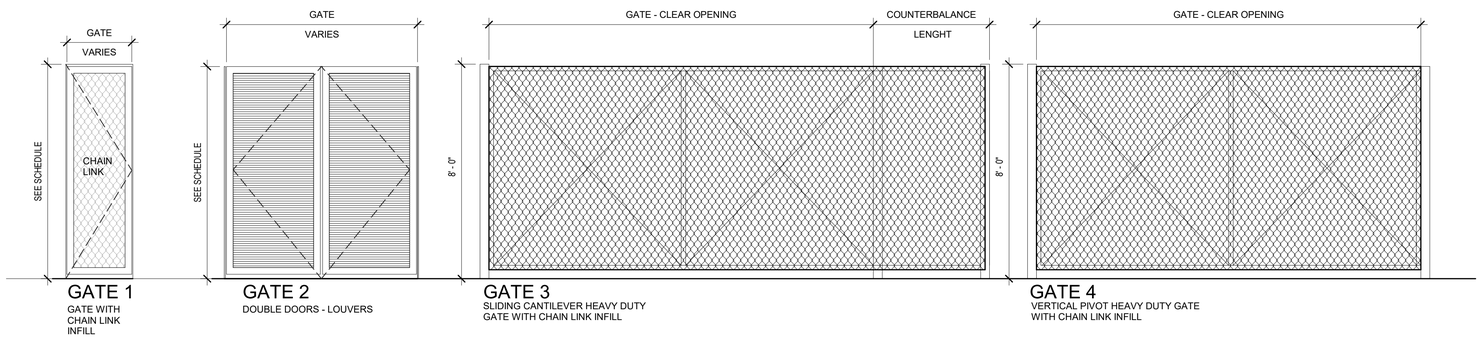
DOOR SCHEDULE ABBREVIATIONS

AL	=	ALUMINUM
ANOD	=	ANODIZED
BR	=	BIOMETRIC READER ACCESS CONTROL
CR	=	CARD READER ACCESS CONTROL
CK	=	CARD READER KEY PAD ACCESS CONTROL
DBL	=	DOUBLE DOORS
DPS	=	DOOR POSITION SWITCH
EM	=	ELECTRIC MORTISE LOCK
F	=	FLUSH
FG	=	FULL GLASS
FR	=	FIRE RATED
G	=	GATE
GLZ	=	GLAZING
HM	=	HOLLOW METAL
L	=	LOUVER
MTL	=	METAL, SEE MANUFACTURER NOTES
N/A	=	NOT APPLICABLE
OHC	=	OVERHEAD COILING DOOR
OHSD	=	OVERHEAD SECTIONAL DOOR
PLAM	=	PLASTIC LAMINATE
PT	=	PAINT
STL	=	GALVANIZED STEEL
SC	=	SOLID CORE WOOD DOOR
SG	=	SLIDE GATE
STC	=	SOUND TRANSMISSION COEFFICIENT
WD	=	WOOD
X	=	INDICATES LABEL, CLOSER OR ELECT. LOCK IS INCLUDED

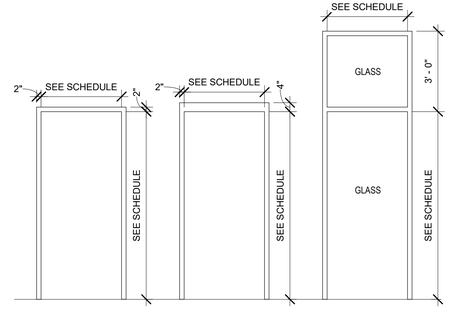
GLAZING MATERIAL TYPES

A. SAFETY GLASS; CLEAR, FULLY TEMPERED
B. 1 HR FIRE-RATED GLAZING MATERIAL
C. BULLET RESISTANT GLAZING; UL 752 LEVEL IV (SPSA)





DOOR ELEVATIONS
3/8" = 1'-0"



BASIS OF DESIGN:
KAWNEER 1620UT

DOOR FRAME ELEVATIONS
3/8" = 1'-0"

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DOOR SCHEDULE - STAIRS / GATES & DOOR ELEVATIONS

A-603

WALL FINISH TREATMENT LEGEND

- WG — WALL PROTECTION RAIL OR STRIP
- CG-1 — STAINLESS-STEEL CORNER GUARD
- CG-2 — VINYL CORNER GUARD
- P-- — WALL FINISH TAG
- 'SUPER-GRAPHIC' LOCATIONS, REFER TO ELEVATIONS, (N.I.C.)
- SEALED CONCRETE - CONTROL JOINTS - REFER TO STRUCTURAL DRAWINGS

WALL FINISH & WINDOW TREATMENT GENERAL NOTES

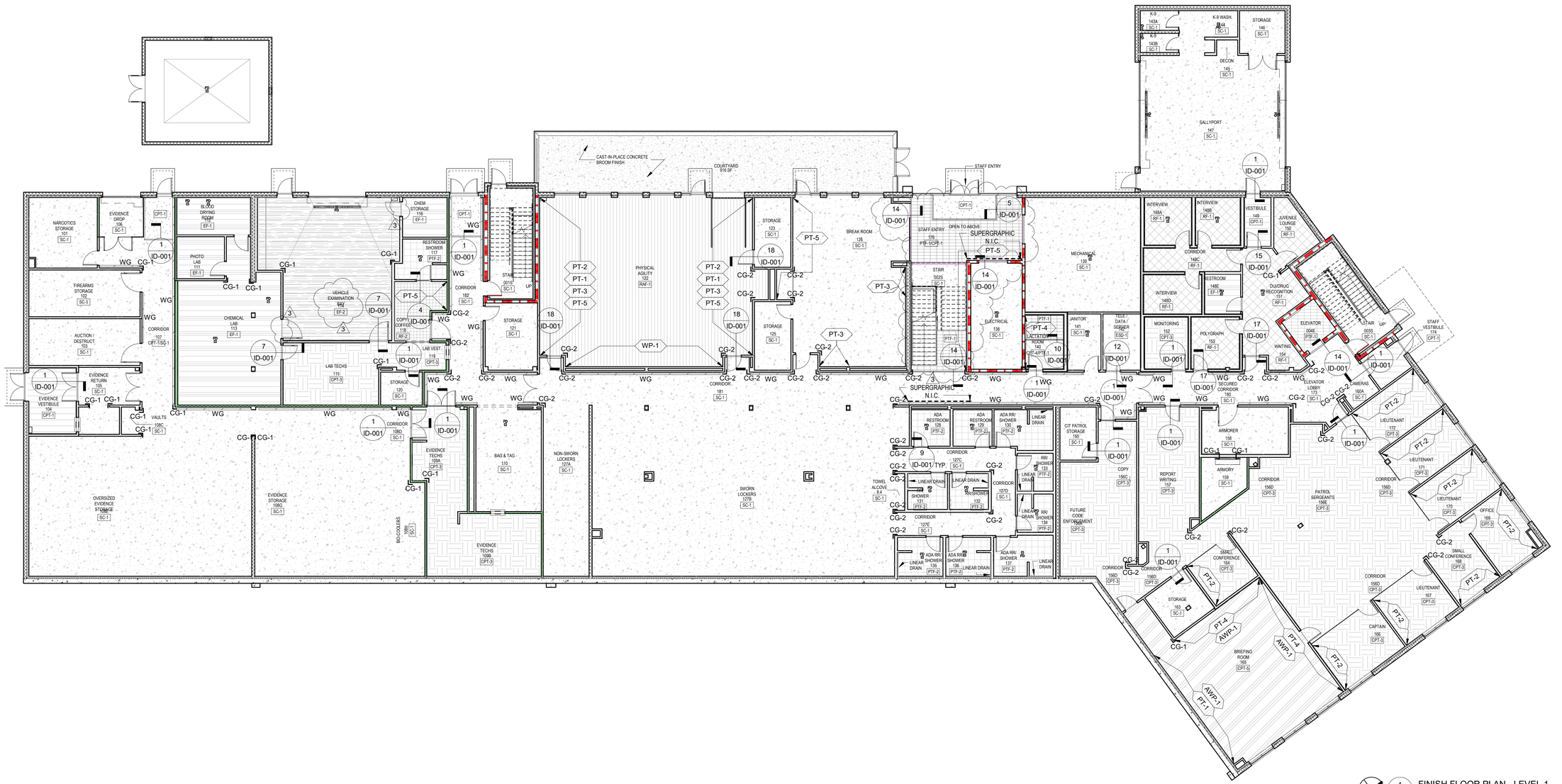
1. ALL EXPOSED STRUCTURE AND COLUMNS TO BE PAINTED PER FINISHED SCHEDULE, REFER TO INTERIOR FINISH LEGEND, SHEET ID-401 AND ID-402, FOR COLOR.
2. PROVIDE CORNER GUARDS AT ALL OUTSIDE CORNERS IN MAIN CORRIDORS
3. REFER TO INTERIOR FINISH LEGEND FOR COLOR / FINISHES.

FLOOR FINISH LEGEND:

- CPT-1: WALK-OFF CARPET
- CPT-2: CARPET TILE
- CPT-3: CARPET TILE
- CPT-4: CARPET TILE
- CPT-5: CARPET TILE
- EF-1: EPOXY
- EF-2: EPOXY (3)
- ESD-1: ELECTROSTATIC DISSIPATIVE VINYL
- PTF-1: PORCELAIN TILE
- PTF-2: PORCELAIN TILE
- PTF-3: PORCELAIN TILE
- RAF-1: RUBBER ATHLETIC FLOORING
- RF-1: RESILIENT VINYL FLOORING
- RF-2: RESILIENT VINYL FLOORING
- SC-1: SEALED CONCRETE

GENERAL NOTES:

1. REFER TO SHEETS ID-101, ID-102, ID-103, ID-104, ID-105, ID-106, AB ID-107, ID-401, ID-402, ID-403, ID-404, AND AB ID-405 FOR FINISH INFORMATION.
2. FD - FLOOR DRAINS, COORDINATE LOCATION WITH FLOOR FINISHES
3. PROVIDE LINEAR DRAINS IN ALL ROLL-IN SHOWERS
4. REFER TO SHEETS, ID-001, ID-101, ID-104 AND FINISH LEGEND FOR FLOOR TRANSITION TYPES.
5. ALL HATCHES ON FINISH FLOOR LEGEND ARE REPRESENTATIVE ONLY AND DO NOT REFLECT INSTALLATION PATTERNS. FOR INSTALLATION PATTERNS REFER TO THE INTERIOR FINISH LEGENDS ON SHEETS, ID-400, ID-401 AND ID-402.



1 ID-101 FINISH FLOOR PLAN - LEVEL 1
3/32" = 1'-0"

Architects Design Group
Ian A. Reeves, A.I.A.
Susan M. Gantt, A.I.A., LEED AP
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Signature and Seal:

LICENSED ARCHITECT AR-986743
2022.03.17
IAN A. REEVES, STATE OF IDAHO

IDAHO FALLS POLICE HEADQUARTERS

IDAHO FALLS, ID

Project No.
1047-20

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Checked by: Checker

Project North:

FINISH FLOOR PLAN - LEVEL 1

ID-101

WALL FINISH TREATMENT LEGEND

WG	WALL PROTECTION RAIL OR STRIP
CG-1	STAINLESS-STEEL CORNER GUARD
CG-2	VINYL CORNER GUARD
P--	WALL FINISH TAG
	'SUPER-GRAPHIC' LOCATIONS, REFER TO ELEVATIONS, (N.I.C.)
	SEALED CONCRETE - CONTROL JOINTS - REFER TO STRUCTURAL DRAWINGS

WALL FINISH & WINDOW TREATMENT GENERAL NOTES

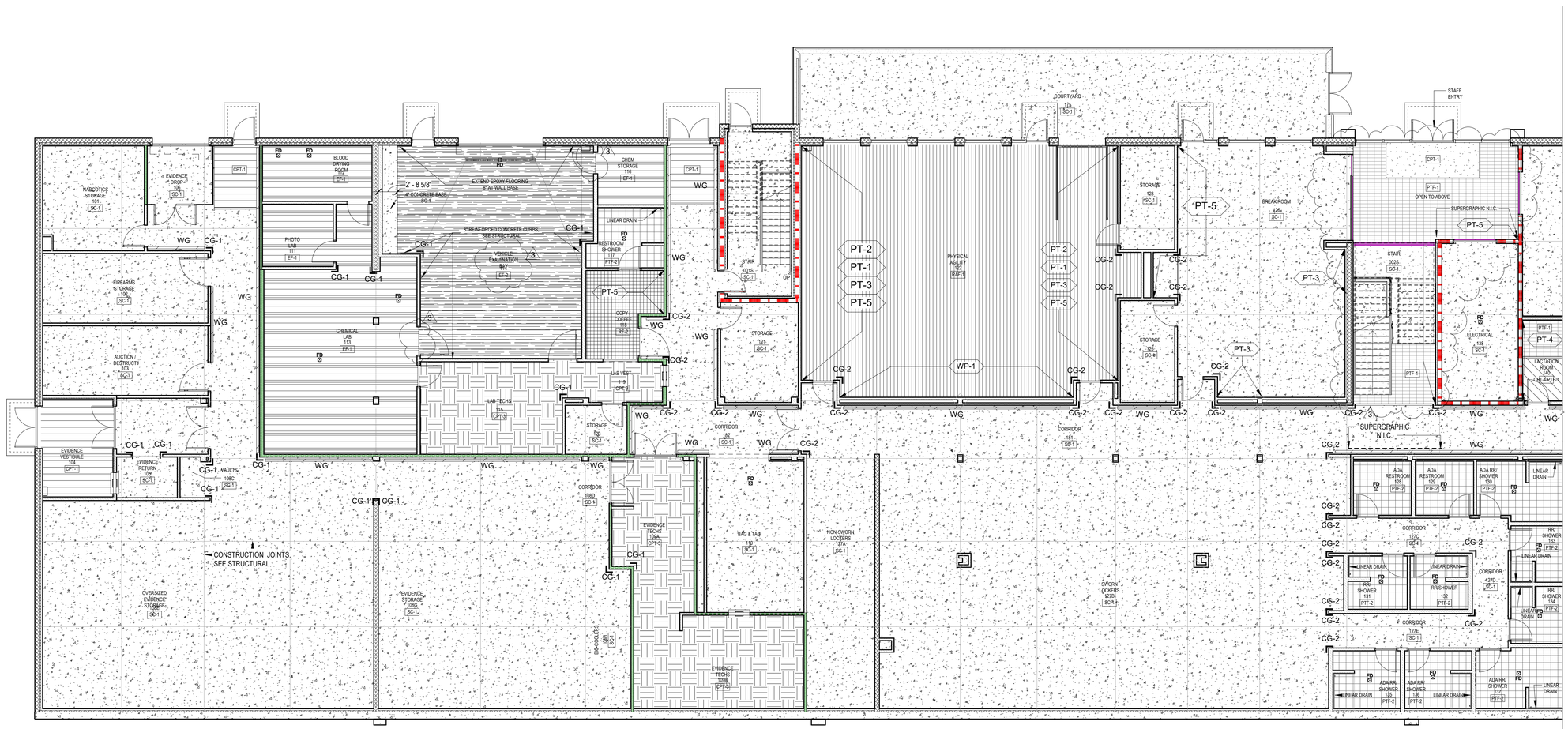
1. ALL EXPOSED STRUCTURE AND COLUMNS TO BE PAINTED PER FINISHED SCHEDULE, REFER TO INTERIOR FINISH LEGEND, SHEET ID-401 AND ID-402, FOR COLOR
2. PROVIDE CORNER GUARDS AT ALL OUTSIDE CORNERS IN MAIN CORRIDORS
3. REFER TO INTERIOR FINISH LEGEND FOR COLOR / FINISHES.

FLOOR FINISH LEGEND:

- CPT-1: WALK-OFF CARPET
- CPT-2: CARPET TILE
- CPT-3: CARPET TILE
- CPT-4: CARPET TILE
- CPT-5: CARPET TILE
- EF-1: EPOXY
- EF-2: EPOXY
- ESD-1: ELECTROSTATIC DISSIPATIVE VINYL
- PTF-1: PORCELAIN TILE
- PTF-2: PORCELAIN TILE
- PTF-3: PORCELAIN TILE
- RAF-1: RUBBER ATHLETIC FLOORING
- RF-1: RESILIENT VINYL FLOORING
- RF-2: RESILIENT VINYL FLOORING
- SC-1: SEALED CONCRETE

GENERAL NOTES:

1. REFER TO SHEETS ID-101, ID-102, ID-103, ID-104, ID-105, ID-106, AB ID-107, ID-401, ID-402, ID-403, ID-404, AND AB ID-405 FOR FINISH INFORMATION.
2. FD - FLOOR DRAINS, COORDINATE LOCATION WITH FLOOR FINISHES
3. PROVIDE LINEAR DRAINS IN ALL ROLL-IN SHOWERS
4. REFER TO SHEETS, ID-001, ID-101, ID-104 AND FINISH LEGEND FOR FLOOR TRANSITION TYPES.
5. ALL HATCHES ON FINISH FLOOR LEGEND ARE REPRESENTATIVE ONLY AND DO NOT REFLECT INSTALLATION PATTERNS. FOR INSTALLATION PATTERNS REFER TO THE INTERIOR FINISH LEGENDS ON SHEETS, ID-400, ID-401 AND ID-402.



1 ID-102 FINISH FLOOR PLAN - LEVEL 1 - AREA A
1/8" = 1'-0"

Architects Design Group
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FINISH FLOOR PLAN - LEVEL 1 - AREA A

ID-102

1 FINISH FLOOR PLAN - LEVEL 1 - AREA B
ID-103 1/8" = 1'-0"

FLOOR FINISH LEGEND:

- CPT-1: WALK-OFF CARPET
- CPT-2: CARPET TILE
- CPT-3: CARPET TILE
- CPT-4: CARPET TILE
- CPT-5: CARPET TILE
- EF-1: EPOXY
- EF-2: EPOXY (3)
- ESD-1: ELECTROSTATIC DISSIPATIVE VINYL
- PTF-1: PORCELAIN TILE
- PTF-2: PORCELAIN TILE
- PTF-3: PORCELAIN TILE
- RAF-1: RUBBER ATHLETIC FLOORING
- RF-1: RESILIENT VINYL FLOORING
- RF-2: RESILIENT VINYL FLOORING
- SC-1: SEALED CONCRETE

GENERAL NOTES:

1. REFER TO SHEETS ID-101, ID-102, ID-103, ID-104, ID-105, ID-106, AB ID-107, ID-401, ID-402, ID-403, ID-404, AND AB ID-405 FOR FINISH INFORMATION.
2. FD - FLOOR DRAINS, COORDINATE LOCATION WITH FLOOR FINISHES
3. PROVIDE LINEAR DRAINS IN ALL ROLL-IN SHOWERS
4. REFER TO SHEETS, ID-001, ID-101, ID-104 AND FINISH LEGEND FOR FLOOR TRANSITION TYPES.
5. (1) ALL HATCHES ON FINISH FLOOR LEGEND ARE REPRESENTATIVE ONLY AND DO NOT REFLECT INSTALLATION PATTERNS. FOR INSTALLATION PATTERNS REFER TO THE INTERIOR FINISH LEGENDS ON SHEETS, ID-400, ID-401 AND ID-402.

WALL FINISH TREATMENT LEGEND

- WG — WALL PROTECTION RAIL OR STRIP
- CG-1 — STAINLESS-STEEL CORNER GUARD
- CG-2 — VINYL CORNER GUARD
- P-- — WALL FINISH TAG
- 'SUPER-GRAPHIC' LOCATIONS, REFER TO ELEVATIONS, (N.I.C.)
- SEALED CONCRETE - CONTROL JOINTS - REFER TO STRUCTURAL DRAWINGS

WALL FINISH & WINDOW TREATMENT GENERAL NOTES

1. ALL EXPOSED STRUCTURE AND COLUMNS TO BE PAINTED PER FINISHED SCHEDULE. REFER TO INTERIOR FINISH LEGEND, SHEET ID-401 AND ID-402, FOR COLOR
2. PROVIDE CORNER GUARDS AT ALL OUTSIDE CORNERS IN MAIN CORRIDORS
3. REFER TO INTERIOR FINISH LEGEND FOR COLOR / FINISHES.

Architects Design Group
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2022.03.17
IAN A. REEVES, STATE OF IDAHO

IDAHO FALLS POLICE HEADQUARTERS

IDAHO FALLS, ID

Project No.
1047-20

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Project North:

FINISH FLOOR PLAN - LEVEL 1 - AREA B

ID-103

WALL FINISH TREATMENT LEGEND

WG	WALL PROTECTION RAIL OR STRIP
CG-1	STAINLESS-STEEL CORNER GUARD
CG-2	VINYL CORNER GUARD
P--	WALL FINISH TAG
	'SUPER-GRAPHIC' LOCATIONS, REFER TO ELEVATIONS, (N.I.C.)
	SEALED CONCRETE - CONTROL JOINTS - REFER TO STRUCTURAL DRAWINGS

WALL FINISH & WINDOW TREATMENT GENERAL NOTES

1. ALL EXPOSED STRUCTURE AND COLUMNS TO BE PAINTED PER FINISHED SCHEDULE, REFER TO INTERIOR FINISH LEGEND, SHEET ID-401 AND ID-402, FOR COLOR
2. PROVIDE CORNER GUARDS AT ALL OUTSIDE CORNERS IN MAIN CORRIDORS
3. REFER TO INTERIOR FINISH LEGEND FOR COLOR / FINISHES.

FLOOR FINISH LEGEND:

- CPT-1: WALK-OFF CARPET
- CPT-2: CARPET TILE
- CPT-3: CARPET TILE
- CPT-4: CARPET TILE
- CPT-5: CARPET TILE
- EF-1: EPOXY
- EF-2: EPOXY (3)
- ESD-1: ELECTROSTATIC DISSIPATIVE VINYL
- PTF-1: PORCELAIN TILE
- PTF-2: PORCELAIN TILE
- PTF-3: PORCELAIN TILE
- RAF-1: RUBBER ATHLETIC FLOORING
- RF-1: RESILIENT VINYL FLOORING
- RF-2: RESILIENT VINYL FLOORING
- SC-1: SEALED CONCRETE

GENERAL NOTES:

1. REFER TO SHEETS ID-101, ID-102, ID-103, ID-104, ID-105, ID-106, AB ID-107, ID-401, ID-402, ID-403, ID-404, AND AB ID-405 FOR FINISH INFORMATION.
2. FD - FLOOR DRAINS, COORDINATE LOCATION WITH FLOOR FINISHES
3. PROVIDE LINEAR DRAINS IN ALL ROLL-IN SHOWERS
4. REFER TO SHEETS, ID-001, ID-101, ID-104 AND FINISH LEGEND FOR FLOOR TRANSITION TYPES.
5. ALL HATCHES ON FINISH FLOOR LEGEND ARE REPRESENTATIVE ONLY AND DO NOT REFLECT INSTALLATION PATTERNS. FOR INSTALLATION PATTERNS REFER TO THE INTERIOR FINISH LEGENDS ON SHEETS, ID-400, ID-401 AND ID-402.

1 ID-104 FINISH FLOOR PLAN - LEVEL 2
3/32" = 1'-0"

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2022.03.17
IAN A. REEVES, STATE OF IDAHO

IDAHO FALLS POLICE HEADQUARTERS

IDAHO FALLS, ID

Project No.
1047-20

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Project North:

FINISH FLOOR PLAN - LEVEL 2

ID-104

WALL FINISH TREATMENT LEGEND

- WG — WALL PROTECTION RAIL OR STRIP
- CG-1 — STAINLESS-STEEL CORNER GUARD
- CG-2 — VINYL CORNER GUARD
- P-- — WALL FINISH TAG
- 'SUPER-GRAPHIC' LOCATIONS, REFER TO ELEVATIONS, (N.I.C.)
- SEALED CONCRETE - CONTROL JOINTS - REFER TO STRUCTURAL DRAWINGS

WALL FINISH & WINDOW TREATMENT GENERAL NOTES

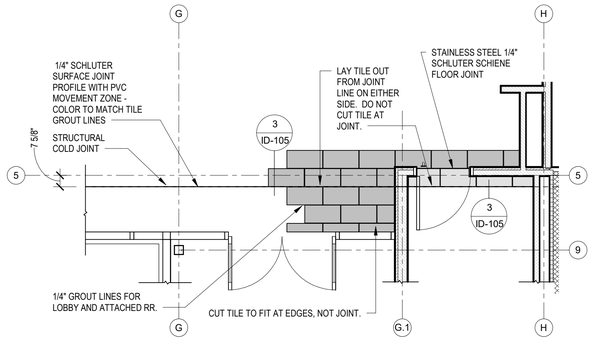
1. ALL EXPOSED STRUCTURE AND COLUMNS TO BE PAINTED PER FINISHED SCHEDULE, REFER TO INTERIOR FINISH LEGEND, SHEET ID-401 AND ID-402, FOR COLOR.
2. PROVIDE CORNER GUARDS AT ALL OUTSIDE CORNERS IN MAIN CORRIDORS
3. REFER TO INTERIOR FINISH LEGEND FOR COLOR / FINISHES.

FLOOR FINISH LEGEND:

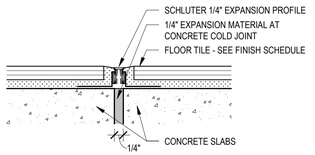
- CPT-1: WALK-OFF CARPET
- CPT-2: CARPET TILE
- CPT-3: CARPET TILE
- CPT-4: CARPET TILE
- CPT-5: CARPET TILE
- EF-1: EPOXY
- EF-2: EPOXY
- ESD-1: ELECTROSTATIC DISSIPATIVE VINYL
- PTF-1: PORCELAIN TILE
- PTF-2: PORCELAIN TILE
- PTF-3: PORCELAIN TILE
- RAF-1: RUBBER ATHLETIC FLOORING
- RF-1: RESILIENT VINYL FLOORING
- RF-2: RESILIENT VINYL FLOORING
- SC-1: SEALED CONCRETE

GENERAL NOTES:

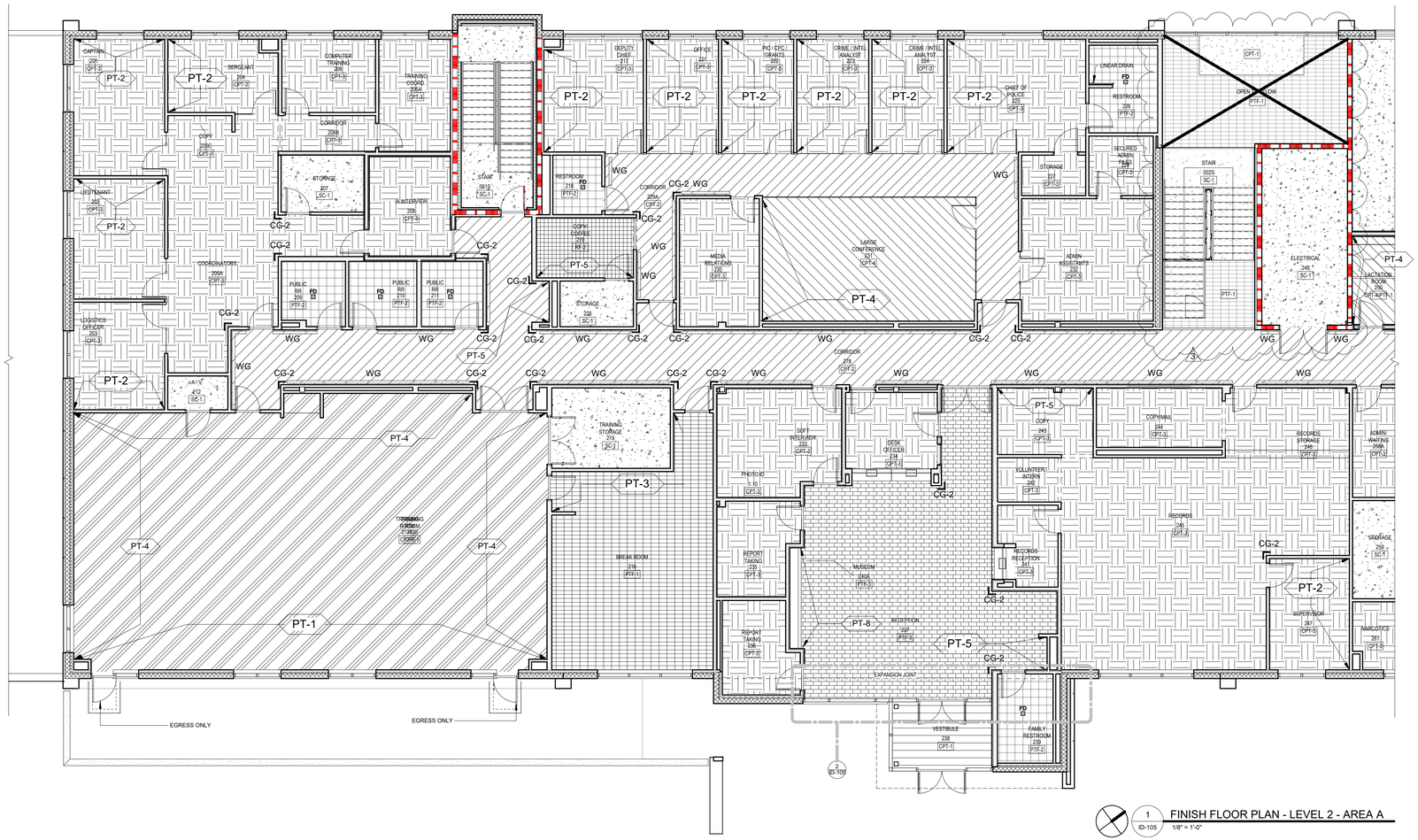
1. REFER TO SHEETS ID-101, ID-102, ID-103, ID-104, ID-105, ID-106, AB ID-107, ID-401, ID-402, ID-403, ID-404, AND AB ID-405 FOR FINISH INFORMATION.
2. FD - FLOOR DRAINS, COORDINATE LOCATION WITH FLOOR FINISHES
3. PROVIDE LINEAR DRAINS IN ALL ROLL-IN SHOWERS
4. REFER TO SHEETS, ID-001, ID-101, ID-104 AND FINISH LEGEND FOR FLOOR TRANSITION TYPES.
5. (1) ALL HATCHES ON FINISH FLOOR LEGEND ARE REPRESENTATIVE ONLY AND DO NOT REFLECT INSTALLATION PATTERNS. FOR INSTALLATION PATTERNS REFER TO THE INTERIOR FINISH LEGENDS ON SHEETS, ID-400, ID-401 AND ID-402.



2 ID-105 — LOBBY JOINT AND TILE DIAGRAM
1/4" = 1'-0"



3 ID-105 — DETAIL
6" = 1'-0"



1 ID-105 — FINISH FLOOR PLAN - LEVEL 2 - AREA A
1/8" = 1'-0"

Architects Design Group
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2022.03.17
IAN A. REEVES, STATE OF IDAHO

IDAHO FALLS POLICE HEADQUARTERS

IDAHO FALLS, ID

Project No.
1047-20

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Project North:

FINISH FLOOR PLAN - LEVEL 2 - AREA A

ID-105

FLOOR FINISH LEGEND:

- CPT-1: WALK-OFF CARPET
- CPT-2: CARPET TILE
- CPT-3: CARPET TILE
- CPT-4: CARPET TILE
- CPT-5: CARPET TILE
- EF-1: EPOXY
- EF-2: EPOXY (3)
- ESD-1: ELECTROSTATIC DISSIPATIVE VINYL
- PTF-1: PORCELAIN TILE
- PTF-2: PORCELAIN TILE
- PTF-3: PORCELAIN TILE
- RAF-1: RUBBER ATHLETIC FLOORING
- RF-1: RESILIENT VINYL FLOORING
- RF-2: RESILIENT VINYL FLOORING
- SC-1: SEALED CONCRETE

GENERAL NOTES:

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3. PROVIDE LINEAR DRAINS IN ALL ROLL-IN SHOWERS
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(1)

WALL FINISH TREATMENT LEGEND

- WG — WALL PROTECTION RAIL OR STRIP
- CG-1 — STAINLESS-STEEL CORNER GUARD
- CG-2 — VINYL CORNER GUARD
- P-- — WALL FINISH TAG
- 'SUPER-GRAPHIC' LOCATIONS, REFER TO ELEVATIONS, (N.I.C.)
- SEALED CONCRETE - CONTROL JOINTS - REFER TO STRUCTURAL DRAWINGS

WALL FINISH & WINDOW TREATMENT GENERAL NOTES

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2. PROVIDE CORNER GUARDS AT ALL OUTSIDE CORNERS IN MAIN CORRIDORS
3. REFER TO INTERIOR FINISH LEGEND FOR COLOR / FINISHES.

1 ID-106 FINISH FLOOR PLAN - LEVEL 2 - AREA B
1/8" = 1'-0"

Architects Design Group
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IDAHO FALLS POLICE HEADQUARTERS

IDAHO FALLS, ID

Project No.
1047-20

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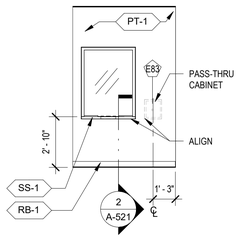
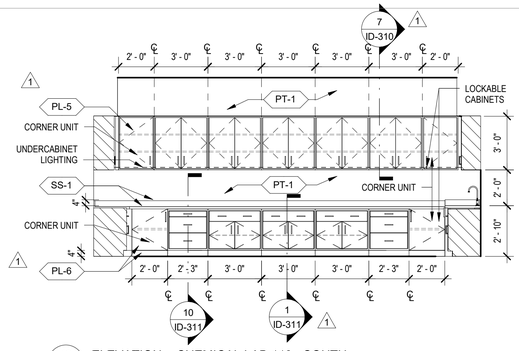
Project North:

FINISH FLOOR PLAN - LEVEL 2 - AREA B

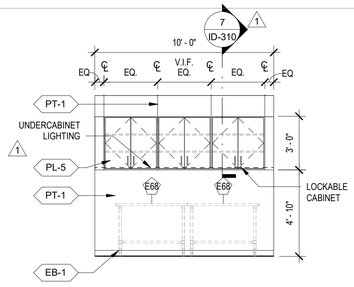
ID-106



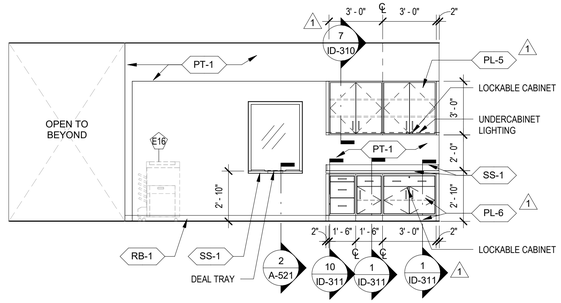
15 ID-201 ELEVATION - LAB VEST 119 - SOUTH 1/4" = 1'-0"



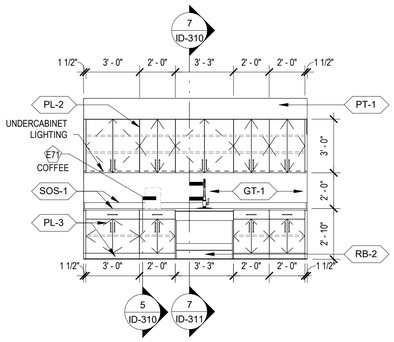
12 ID-201 ELEVATION - CHEMICAL LAB 113 - SOUTH 1/4" = 1'-0"



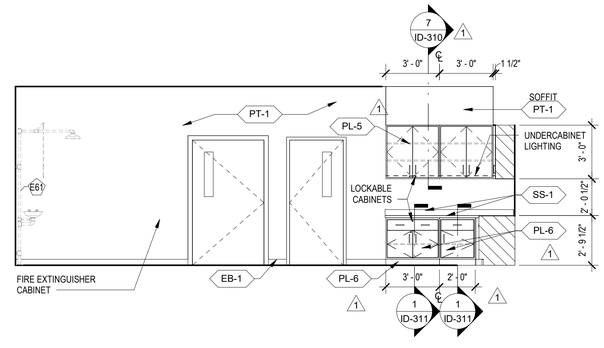
8 ID-201 ELEVATION - PHOTO LAB 111 - NORTH 1/4" = 1'-0"



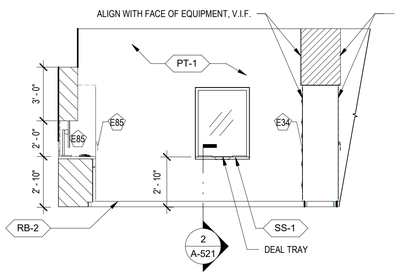
4 ID-201 ELEVATION - EVIDENCE TECHS 109B - NORTH 1/4" = 1'-0"



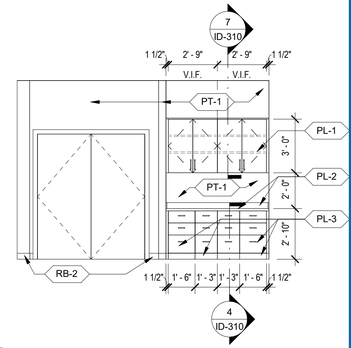
14 ID-201 ELEVATION - COPY/COFFEE 118 - WEST 1/4" = 1'-0"



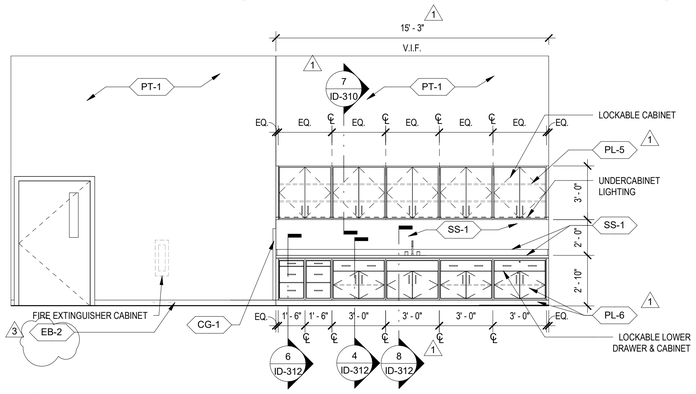
11 ID-201 ELEVATION - CHEMICAL LAB 113 - EAST 1/4" = 1'-0"



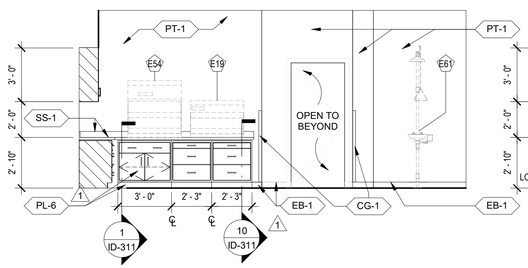
7 ID-201 ELEVATION - BAG & TAG 110 - SOUTH 1/4" = 1'-0"



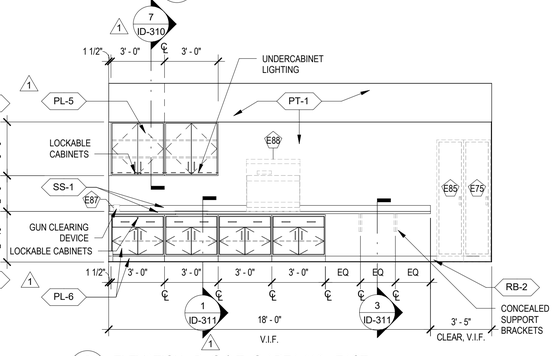
3 ID-201 ELEVATION - EVIDENCE RETURN 105 - EAST 1/4" = 1'-0"



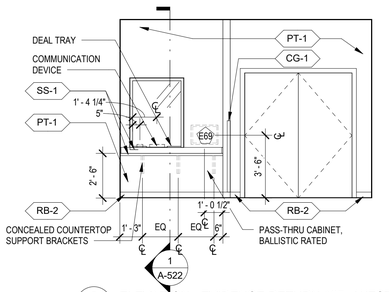
13 ID-201 ELEVATION - VEHICLE EXAMINATION BAY 114 - WEST 1/4" = 1'-0"



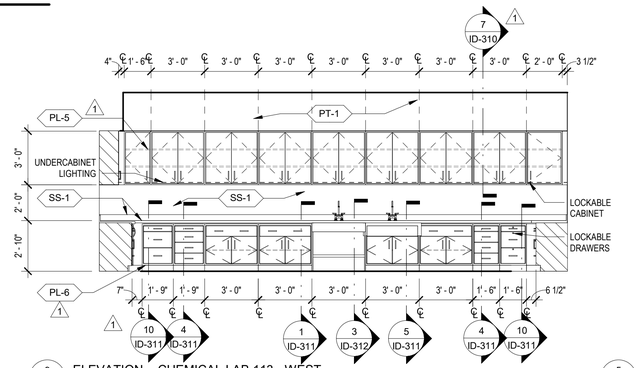
10 ID-201 ELEVATION - CHEMICAL LAB 113 - NORTH 1/4" = 1'-0"



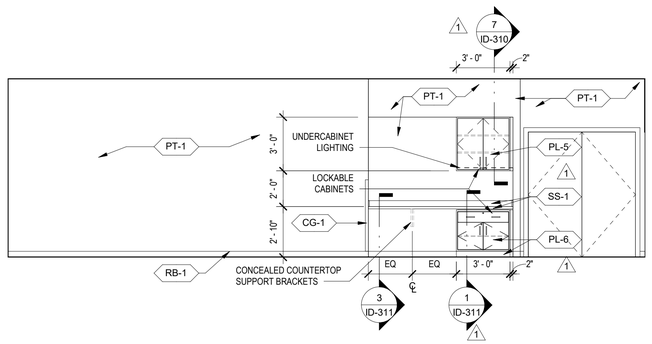
6 ID-201 ELEVATION - BAG & TAG AREA 110 - EAST 1/4" = 1'-0"



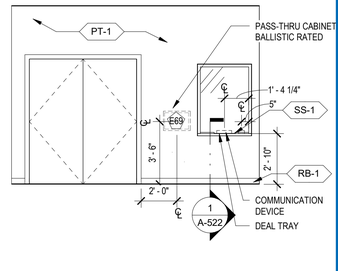
2 ID-201 ELEVATION - EVIDENCE RETURN 105 - WEST 1/4" = 1'-0"



9 ID-201 ELEVATION - CHEMICAL LAB 113 - WEST 1/4" = 1'-0"



5 ID-201 ELEVATION - EVIDENCE TECHS 109A - WEST 1/4" = 1'-0"



1 ID-201 ELEVATION - EVIDENCE VESTIBULE 104 - EAST 1/4" = 1'-0"

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2022.03.17
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IDAHO FALLS POLICE HEADQUARTERS

IDAHO FALLS, ID

Project No.
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INTERIOR ELEVATIONS

ID-201

INTERIOR FINISH LEGEND - CD PAGE 1

FINISH TAG	MATERIAL	MANUFACTURER	STYLE	COLOR / FINISH	SIZE	COMMENTS
033545	**Sealed Concrete Finishing**					
SC-1	Sealed Concrete Finishing	L.M. Scofield Co.	-	Clear / Matte	-	Sally Port, General storage rooms, stairs, K-9, Courtyard, Elec/Mech, Janitor, Elev. Machine & stairs 3
064116	**High-Pressure Plastic Laminate**					
PL-1	Plastic Laminate	Nevamar	Neutral Gray	S6012T, Standard HPL 1	-	Upper cabinets 1
PL-2	Plastic Laminate	Nevamar	Frappe	LN6001T, Standard HPL 1	-	Dry Countertops; Upper Cabinets at Breakrooms and Copy/Coffee where there are sinks; Grain to run vertical 1
PL-3	Plastic Laminate	Nevamar	Maritime Gray	S6027T, Standard HPL 1	-	Base cabinets; Restroom vanity shrouds, Training, Breakrooms, Labs and Armory 1
PL-4	Plastic Laminate	Wilsonart	Silver Velvet Traceless	15503-31	-	Reception
1 PL-5	Plastic Laminate	Nevamar	Neutral Gray	S6012T, ChemGuard HPL	-	Upper cabinets; Labs & Armory
1 PL-6	Plastic Laminate	Nevamar	Maritime Gray	S6027T, ChemGuard HPL	-	Base cabinets; Labs and Armory
123616	**Stainless Steel**					
SS-1	Stainless Steel	OnePointe Solutions	Type 316	Stainless Steel	-	Armory, Labs, & Evidence Backsplashes 1
123661	**Solid Polymer Fabrication**					
SOS-1	Solid Surface	Livingstone	Sea Peal	L719, Polished	2 cm	Reception, Breakroom, Copy/Coffee, Lactation & Training Room countertops & 4" backsplashes
081416	**Flush High-Pressure Laminate-Faced Doors**					
DR-1	Flush Laminate-Finished Doors	VT Industries-Wilsonart	Heritage Collection / High-Pressure Laminate Finish (HPL) 3	Limber Maple 10734-07; Gloss Textured finish with AEON scuff-resistant finish	Refer to Door Schedule	AEON scuff-resistant finish
093000	**Tiling**					
PTF-1	Porcelain Tile Floor	Atlas Concorde	Fray	Smoke	12" x 24" x 9mm thick	Field tile in Elevator, Break Rooms, Staff Entry, Water Fountains; Ashlar Installation, 1/8" grout joint, sanded. Grout: Laticrete #45 Raven. 1
PTF-2	Porcelain Tile Floor	Ceramic Technics	Fiorano, Basaltina	Light Grey, Natural	12" x 24" x 10mm thick	Flooring in Restrooms; Stacked pattern, 1/8" grout joint, sanded. Grout: Laticrete #24 Natural Grey
PTF-3	Porcelain Tile Floor	Atlas Concorde	Fray	Gray	12" x 24" x 9mm thick	Reception; Ashlar Installation, 1/4" grout joint, sanded. Grout: Laticrete #78 Sterling Silver
PTB-1	Porcelain Tile Base	Atlas Concorde	Fray	Smoke	6" x 12" x 9mm thick, coved	Elevator, Break Rooms, Staff Entry, Water Fountains; Ashlar Installation; 1/8" grout joint, sanded. Grout: Laticrete #45 Raven. 1
PTB-2	Porcelain Tile Base	Ceramic Technics	Fiorano, Basaltina	Light Grey, Natural	6" x 12" x 10mm thick, coved	Restrooms, Stacked Pattern; 1/8" grout joint, sanded. Grout: Laticrete # 24 Natural Grey
PTB-3	Porcelain Tile Base	Atlas Concorde	Fray	Gray	6" x 12" x 9mm thick, coved	Reception, Ashlar Installation; 1/4" grout joint, sanded. Grout: Laticrete #78 Sterling Silver
PTW-1	Porcelain Wall Tile	Ceramic Technics	Fiorano, Basaltina	White, Natural	12" x 24" x 10mm thick	Restroom Walls; Stacked pattern, 1/8" grout joint, unsanded. Grout: Laticrete #89 Smoke Grey.
093000	**Glass Tile**					
GT-1	Glass Mosaic Tile	Mosaic Tile Outlet	Staggered Brick	MTO0616 Blue, Yellow; Glossy	1" x 2"	Breakroom & Copy/Coffee backsplash, Ashlar Installation; install above the countertop backsplash. Install TR-1 at exposed edges.
093050	**Tile Setting Accessories**					
TR-1	Finishing Edge Protection Trim	Schluter	Jolly - A100ACGB	Brushed Chrome Anodized Alum.	3/8"	To finish exposed edges of wall tile at Restrooms & Break Rooms Backsplash edges at Armory, Labs & Evidence
3 TR-2	-	-	-	-	-	Not used
TR-3	Stainless Steel Trim	Schluter	TREP-SE/S/B	Brushed Chrome Anodized Alum.	TBD at time of Installation	Tiled Stairs; Backfill cavities
TR-4	Stainless Steel Trim	Schluter	Reno Ramp-K	Brushed Chrome Anodized Alum.	TBD at time of Installation	Concrete to Concrete transitions; Backfill cavities
TR-5	Stainless Steel Trim	Schluter	Schiene	Brushed Chrome Anodized Alum.	TBD at time of Installation	Lobby Tile Flooring to Walk-Off Carpet
TR-6	Stainless Steel Trim	Schluter	DILEX-EKE	PG, Classic Grey	TBD at time of Installation	Restroom Shower Inside Corners-PTW-1
TR-7	Stainless Steel Trim	Schluter	Quadec	Brushed Chrome Anodized Alum.	TBD at time of Installation	Restroom Shower Outside Corners with Caps

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INTERIOR FINISH LEGEND

ID-400

INTERIOR FINISH LEGEND - CD PAGE 2

FINISH TAG	MATERIAL	MANUFACTURER	STYLE	COLOR / FINISH	SIZE	COMMENTS
095423	**Acoustical Metal Ceilings**					
AMC-1	Acoustical Metal Ceiling	Armstrong Ceiling	MetalWorks Linear Classics, Square Edge with extended flange, M1 Unperforated	5493 Effects Sesame FXSE2	8" x 96" x 5/8"	Exterior Ceiling, refer to A-112 for location 2
2 AMC-2	Acoustical Metal Ceiling	Armstrong Ceiling	MetalWorks Linear Classics, 0.70 NRC Square Edge with extended flange, M2 Perforations	5493 Effects Sesame FXSE	8" x 96" x 5/8"	Interiors Ceilings: Staff Entry, Reception, and Vestibule 238
095113	**Acoustical Ceiling Tile**					
ACT-1	Acoustical Ceiling Tile	Rockfon	Alaska, NRC 0.90, Square Tegular Narrow Edge, Fine Texture, 9/16" Suspension Grid SLN Tempra	White	24" x 24" x 3/4"	General Corridors and Office Areas, Conference & Briefing Rooms 2
2 ACT-2	Acoustical Ceiling	Armstrong Ceiling	Soundscapes, Blades; Linear Acoustical Panels, Fine Texture, 15/16" Prelude XL; Vertical Panel Rectangular	7193; Stone, SE	94"W x 16"H x 2" thick	Breakroom 126
096536	**Resilient Flooring - ESD**					
ESD-1	Electrostatic-Dissipative Vinyl Tile	Roppe	StatProtect	Cumulus White 750	24" x 24" x 1/8" thick	IT, Tele/Data Server Rooms, & Faraday
096513	**Resilient Wall Base**					
RB-1	Rubber Base	Roppe	Pinnacle (Type TS)	Dark Gray 150	4", 1/8" thick straight	Straight base at carpet
RB-2	Rubber Base	Roppe	Pinnacle (Type TS)	Dark Gray 150	4", 1/8" thick coved	Resilient and concrete flooring
RB-3	Rubber Base	Roppe	Pinnacle (Type TS)	Black 100	4", 1/8" thick coved	Physical Agility & Defensive Tactics
RA-1	Rubber Transition Strips	Johnsonite/Tarkett	Slim Line Transition, SLT-20-J	Charcoal WG, 20	TBD at Time of Installation	Carpet to Sealed Concrete
RA-2	Rubber Transition Strips	Johnsonite/Tarkett	Wheeled Traffic Transition, CTA-20-K	Charcoal WG, 20	TBD at Time of Installation	Porcelain Tile to Sheet Vinyl
RA-3	Rubber Transition Strips	Johnsonite/Tarkett	Reducer, CRS-20-A	Charcoal WG, 20	TBD at Time of Installation	Carpet to Epoxy
RA-4	Rubber Transition Strips	Johnsonite/Tarkett	Slim Line Transition, SLT-20-F	Charcoal WG, 20	TBD at Time of Installation	Porcelain Tile to Carpet Tile
RA-5	Rubber Transition Strips	Johnsonite/Tarkett	Reducer, RRS-20-C	Charcoal WG, 20	TBD at Time of Installation	ESD to Concrete
RA-6	Rubber Transition Strips	Johnsonite/Tarkett	T-Molding, CE-40-C	Black B, 40	TBD at Time of Installation	Carpet to Rubber Athletic Flooring
RA-7	Rubber Transition Strips	Johnsonite/Tarkett	Wheeled Traffic Transition, CTA-20-PL	Charcoal WG, 20	TBD at Time of Installation	Porcelain Tile to Concrete
RA-8	Rubber Transition Strips	Johnsonite/Tarkett	Slim Line Transition, SLT-20-A	Charcoal WG, 20	TBD at Time of Installation	Carpet to Sheet Vinyl
RA-9	Rubber Transition Strips	Johnsonite/Tarkett	Reducer, RRS-20-C	Charcoal WG, 20	TBD at Time of Installation	Resilient Flooring to Epoxy
RA-10	Rubber Transition Strips	Johnsonite/Tarkett	Reducer, RRS-20-C	Charcoal WG, 20	TBD at Time of Installation	Resilient Flooring to Concrete
RA-11	Rubber Transition Strips	Johnsonite/Tarkett	Reducer, CRS-40-B	Black B, 40	TBD at Time of Installation	Rubber Athletic Flooring to Concrete
096516	**Resilient Sheet Flooring**					
RF-1	Resilient Flooring	FlexiFlor	Rubber Sheet Flooring	Twilight 772, Smooth	39" W x 16-30yds L x 1/8" thickness	Interview, Soft Interview, Interview Waiting, Report Taking Rooms, Juvenile Lounge, Polygraph & DUI Drug Recog.; Seams to be heat welded, color to match.
RF-2	Resilient Flooring	FlexiFlor	Rubber Sheet Flooring	Gray Dawn 746, Smooth	39" W x 16-30yds L x 1/8" thickness	Copy Coffee and Lacation Rooms; Seams to be heat welded, color to match.
096566	**Resilient Athletic Flooring**					
RAF-1	Rubber Athletic Flooring	eCORE Commercial	ECOnights	Big Bang Blue 629A	23" x 23" x 8mm thick	Physical Agility
3 **096723**	**Resinous Flooring**					
EF-1	Epoxy (Quartz) Flooring	Sherwin Williams	Resuflor Deco Quartz BC23, Ceramic Carpet System #400, 2 coats of clear sealer	Meteor Shower	1/8" thick	Chemical Lab, Chemical Storage, Photo Lab, & Blood Drying
EF-2	Epoxy (Quartz) Flooring	Sherwin Williams	Resuflor Deco Quartz BC23, Ceramic Carpet System #400, 5190 Fine Non-Skid Texture	Meteor Shower	1/8" thick	Vehicle Examination
EB-1	Epoxy (Quartz) Cove Base	Sherwin Williams	Resuflor Deco Quartz BC23, Ceramic Carpet System #400, 2 coats of clear sealer	Meteor Shower	4" high, w/ 3/4" radius cove	Chemical Lab, Chemical Storage, Photo Lab, & Blood Drying
EB-2	Epoxy (Quartz) Cove Base	Sherwin Williams	Resuflor Deco Quartz BC23, Ceramic Carpet System #400, 5190 Fine Non-Skid Texture	Meteor Shower	4" high, w/ 3/4" radius cove	Vehicle Examination

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IDAHO FALLS, ID

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INTERIOR FINISH LEGEND

ID-401

FINISH SCHEDULE - LEVEL 1

ROOM #	ROOM NAME	FLOOR FINISH	BASE FINISH	NORTH WALL FINISH	SOUTH WALL FINISH	EAST WALL FINISH	WEST WALL FINISH	CEILING FINISH	COMMENTS
01C	COVERED STORAGE	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
001S	STAIR	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
002S	STAIR	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	GYP/PT-6	SEALED CONCRETE TREADS, REFER TO ARCHITECTURAL DETAILS ON A-421
003S	STAIR	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
004E	ELEVATOR	PTF-1	PTB-1	-	-	-	-	-	REFER TO FINISH LEGEND FOR ELEVATOR CAB FINISHES
8.4	TOWEL ALCOVE	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	GYP/PT-6	
101	NARCOTICS STORAGE	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
102	FIREARMS STORAGE	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
103	AUCTION / DESTRUCT	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
104	EVIDENCE VESTIBULE	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
105	EVIDENCE RETURN	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	ACT-1, GYP/PT-6	
106	EVIDENCE DROP	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
107	CORRIDOR	CPT-1/SC-1	RB-1/RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
108C	VAULTS	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
108D	CORRIDOR	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
108E	OVERSIZED EVIDENCE STORAGE	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
108F	EVIDENCE STORAGE	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
108G	EVIDENCE STORAGE	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
108H	BIO-COOLERS	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
109A	EVIDENCE TECHS	CPT-3	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1, GYP/PT-6	
109B	EVIDENCE TECHS	CPT-3	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1, GYP/PT-6	
110	BAG & TAG	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	ACT-1, GYP/PT-6	
111	PHOTO LAB	EF-1	EB-1	PT-1	PT-1	PT-1	PT-1	ACT-1, GYP/PT-6	
112	BLOOD DRYING ROOM	EF-1	EB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
113	CHEMICAL LAB	EF-1	EB-1	PT-1	PT-1	PT-1	PT-1	ACT-1, GYP/PT-6	
114	VEHICLE EXAMINATION BAY	EF-2	EB-2	PT-1	PT-1	PT-1	P-1	EXP/PM-2	
115	LAB TECHS	CPT-3	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
116	CHEM STORAGE	EF-1	EB-1	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
117	RESTROOM/ SHOWER	PTF-2	PTB-2	PTW-1/PT-1	PT-1	PTW-1/PT-1	PTW-1/PT-1	GYP/PT-9	
118	COPY / COFFEE	RF-2	RB-2	PT-1	PT-1	PT-1/PT-5	PT-1	ACT-1, GYP/PT-6	
119	LAB VEST.	CPT-3	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
120	STORAGE	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
121	STORAGE	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
122	PHYSICAL AGILITY	RAF-1	WP-1/RB-3	PT-2	PT-2/WP-1	PT-1/PT-2/PT-3/PT-5	PT-1/PT-2/PT-3/PT-5	EXP/PM-2	WP-1, 22"H AT WEIGHTS WALL
123	STORAGE	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
125	STORAGE	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
126	BREAK ROOM	SC-1	RB-2	PT-1	PT-1/PT-3	PT-1/PT-3	PT-1/PT-5	EXP/PM-2, GYP/PT-6, ACT-3	
127A	NON-SWORN LOCKERS	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	ACT-1 & GYP/PT-6	
127B	SWORN LOCKERS	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	ACT-1 & GYP/PT-6	
127C	CORRIDOR	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	ACT-1	
127D	CORRIDOR	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	ACT-1	
127E	CORRIDOR	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	ACT-1	
128	ADA RESTROOM	PTF-2	PTB-2	PTW-1/PT-1	PT-1	PTW-1/PT-1	PT-1	GYP/PT-9	
129	ADA RESTROOM	PTF-2	PTB-2	PTW-1/PT-1	PT-1	PT-1	PTW-1/PT-1	GYP/PT-9	
130	ADA RR/ SHOWER	PTF-2	PTB-2	PTW-1/PT-1	PTW-1/PT-1	PTW-1/PT-1	PTW-1/PT-1	GYP/PT-9	
131	RR/ SHOWER	PTF-2	PTB-2	PTW-1/PT-1	PTW-1/PT-1	PT-1	PTW-1/PT-1	GYP/PT-9	
132	RR/SHOWER	PTF-2	PTB-2	PTW-1/PT-1	PTW-1/PT-1	PTW-1/PT-1	PT-1	GYP/PT-9	

FINISH SCHEDULE - LEVEL 1

ROOM #	ROOM NAME	FLOOR FINISH	BASE FINISH	NORTH WALL FINISH	SOUTH WALL FINISH	EAST WALL FINISH	WEST WALL FINISH	CEILING FINISH	COMMENTS
133	RR/ SHOWER	PTF-2	PTB-2	PT-1	PTW-1/PT-1	PTW-1/PT-1	PT-1	GYP/PT-9	
134	RR/ SHOWER	PTF-2	PTB-2	PTW-1/PT-1	PT-1	PTW-1/PT-1	PTW-1/PT-1	GYP/PT-9	
135	ADA RR/ SHOWER	PTF-2	PTB-2	PTW-1/PT-1	PTW-1/PT-1	PTW-1/PT-1	PTW-1/PT-1	GYP/PT-9	
136	ADA RR/ SHOWER	PTF-2	PTB-2	PT-1	PTW-1/PT-1	PTW-1/PT-1	PTW-1/PT-1	GYP/PT-9	
137	ADA RR/ SHOWER	PTF-2	PTB-2	PTW-1/PT-1	PTW-1/PT-1	PTW-1/PT-1	PT-1	GYP/PT-9	
138	ELECTRICAL	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
139	MECHANICAL	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
140	LACTATION ROOM	CPT-4/PTF-1	RB-1/PTB-1	PT-1	PT-1	PT-1	PT-4/AWP-2	ACT-1 & GYP/PT-6	
141	JANITOR	SC-1	RB-2	PT-1/FRP-1	PT-1	PT-1	PT-1/FRP-1	GYP/PT-6	
142	TELE / DATA / SERVER	ESD-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
143A	K-9	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
143B	K-9	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
143C	K-9 AREA	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
144	K-9 WASH	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
145	DECON	SC-1	RB-2	PT-1, PT-5, PE-1	PT-1, PT-5, PE-1	PT-1	PT-1	EXP/PM-2	
146	STORAGE	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
147	SALLYPORT	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
148A	INTERVIEW	RF-1	RB-2	PT-1	PT-1	PT-1	PT-1	GYP/PT-6	
148B	INTERVIEW	RF-1	RB-2	PT-1	PT-1	PT-1	PT-1	GYP/PT-6	
148C	CORRIDOR	RF-1	RB-2	PT-1	PT-1	PT-1	PT-1	GYP/PT-6	
148D	INTERVIEW	RF-1	RB-2	PT-1	PT-1	PT-1	PT-1	GYP/PT-6	
148E	RESTROOM	EF-1	EB-1	PTW-1/PT-1	PT-1	PT-1	PTW-1/PT-1	GYP/PT-9	
149	VESTIBULE	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	GYP/PT-6	
150	JUVENILE LOUNGE	RF-1	RB-2	PT-1	PT-1	PT-1	PT-1	GYP/PT-6	
151	DUI/DRUG RECOGNITION	RF-1	RB-2	PT-1	PT-1	PT-1	PT-1	GYP/PT-6	
152	MONITORING	CPT-3	RB-1	PT-1	PT-1	PT-1	PT-1	GYP/PT-6	
153	POLYGRAPH	RF-1	RB-2	PT-1	PT-1	PT-1	PT-1	GYP/PT-6	
154	WAITING	RF-1	RB-2	PT-1	PT-1	PT-1	PT-1	GYP/PT-6	
155	CIT PATROL STORAGE	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
156A	FUTURE CODE ENFORCEMENT	CPT-3	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
156C	COPY	CPT-3	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1, GYP/PT-6	
156D	CORRIDOR	CPT-3	RB-1	PT-1	PT-1	PT-1	PT-1	GYP/PT-6	
156E	PATROL SERGEANTS	CPT-3	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
157	REPORT WRITING	CPT-3	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1 & GYP/PT-6	
158	ARMORER	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	ACT-1, GYP/PT-6	
159	ARMORY	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
160	CAMERAS	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	GYP/PT-6	
163	STORAGE	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	EXP/PM-2	
164	SMALL CONFERENCE	CPT-3	RB-1	PT-1	PT-1	PT-1	PT-2	ACT-1	
165	BRIEFING ROOM	CPT-5	RB-1	PT-4/AWP-1	PT-1	PT-4/AWP-1	PT-1/AWP-1	ACT-1, GYP/PT-6	
166	CAPTAIN	CPT-3	RB-1	PT-1	PT-1	PT-1	PT-2	ACT-1	
167	LIEUTENANT	CPT-3	RB-1	PT-1	PT-1	PT-1	PT-2	ACT-1	
168	SMALL CONFERENCE	CPT-3	RB-1	PT-1	PT-2	PT-1	PT-1	ACT-1	
169	OFFICE	CPT-3	RB-1	PT-1	PT-1	PT-2	PT-1	ACT-1	
170	LIEUTENANT	CPT-3	RB-1	PT-2	PT-1	PT-1	PT-1	ACT-1	
171	LIEUTENANT	CPT-3	RB-1	PT-2	PT-1	PT-1	PT-1	ACT-1	
172	LIEUTENANT	CPT-3	RB-1	PT-2	PT-1	PT-1	PT-1	ACT-1	
173	ELEVATOR LOBBY	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	GYP/PT-6	
174	STAFF VESTIBULE	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
175	COURTYARD	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	-	
176	STAFF ENTRY	PTF-1/CPT-1	PTB-1	PT-1	PT-5	PT-5	PT-1	AMC-2	
180	SECURED CORRIDOR	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	ACT-1 & GYP/PT-6	
181	CORRIDOR	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	ACT-1 & GYP/PT-6	
182	CORRIDOR	SC-1	RB-2	PT-1	PT-1	PT-1	PT-1	ACT-1	

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IDAHO FALLS POLICE HEADQUARTERS

IDAHO FALLS, ID

Project No.
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INTERIOR FINISH SCHEDULE

ID-403

MASTER FAN COIL SCHEDULE (FC)

SIZE	TYPE	SA (CFM)	ESP (IN WC)	TOTAL COOLING (MBH)	SENSIBLE COOLING (MBH)	HEATING (MBH)	ELECTRICAL				DIMENSIONS (IN)			OPER WT (LBS)	MANUFACTURER & MODEL
							MCA	MOCP	VOLT	PH	L	W	H		
Ceiling Mount Units V22B (FC)															
7	CEILING 22	280	N/A	5.4	4.0	6.2	0.38	15	208	1	26	26	12	65	LENNOX V22B
9	CEILING 22	280	N/A	6.9	5.2	8.6	0.38	15	208	1	26	26	12	65	LENNOX V22B
12	CEILING 22	305	N/A	9.2	6.9	9.0	0.53	15	208	1	26	26	12	65	LENNOX V22B
15	CEILING 22	305	N/A	11.6	8.7	13.2	0.53	15	208	1	26	26	12	65	LENNOX V22B
Ceiling Mount Units V33B (FC)															
24	CEILING 33	680	N/A	18.4	13.9	22.6	1.3	15	208	1	38	38	12	90	LENNOX V33B
48	CEILING 33	1100	N/A	36.9	27.8	42.6	2.2	15	208	1	38	38	12	90	LENNOX V33B
Ducted Outdoor Air Units VOSB (FC)															
96	DUCTED OSA	1300	1.0	27.9	27.7	55.8	5.2	15	208	1	39	57	20	350	LENNOX VOSB
Ducted Units VMDB (FC)															
7	DUCTED	260	0.3	5.4	4.0	6.2	1.2	15	208	1	20	40	9	60	LENNOX VMDB
12	DUCTED	440	0.5	9.2	6.9	9.0	2.2	15	208	1	26	40	11	90	LENNOX VMDB
15	DUCTED	535	0.5	11.6	8.7	13.2	3.2	15	208	1	32	50	11	120	LENNOX VMDB
18	DUCTED	600	0.5	13.8	10.4	16.4	3.2	15	208	1	32	50	11	120	LENNOX VMDB
24	DUCTED	800	0.5	18.4	13.9	22.6	3.2	15	208	1	32	50	11	120	LENNOX VMDB
30	DUCTED	1070	0.5	23.0	17.4	23.4	5	15	208	1	34	52	12	150	LENNOX VMDB
36	DUCTED	1200	0.5	27.6	20.9	32.0	5	15	208	1	34	52	12	150	LENNOX VMDB
48	DUCTED	1370	0.5	36.9	27.8	42.6	5	15	208	1	34	52	12	150	LENNOX VMDB
Wall Mounted VWMB (FC)															
18	WALL	380	N/A	13.8	10.4	16.4	0.42	15	208	1	39	14	13	55	LENNOX VWMB
24	WALL	530	N/A	18.4	13.9	22.6	0.52	15	208	1	39	14	13	55	LENNOX VWMB
30	WALL	600	N/A	23.0	17.4	23.4	0.65	15	208	1	39	14	13	55	LENNOX VWMB

ELECTRIC WALL HEATER (EH)

MARK	LOCATION	TYPE	CFM	EAT (°F)	MOUNTING	# STEPS	ELECTRICAL			DIMENSIONS			MANUFACTURER & MODEL	NOTES
							VOLT	PH	KW	D	W	H		
EH-1	EVIDENCE VESTIBULE	WALL	160	70	SURFACE	1	208	1	5	2	15	20	INDEECO WCI	1-4
EH-2	STAIR 001S	WALL	160	70	SURFACE	1	208	1	5	2	15	20	INDEECO WCI	1-4
EH-3	STAIRS 003S	WALL	160	70	SURFACE	1	208	1	5	2	15	20	INDEECO WCI	1-4
EH-4	STAFF VESTITBULE	WALL	160	70	SURFACE	1	208	1	3	2	30	20	INDEECO WCI	1-4
EH-5	VESTIBULE	WALL	160	70	SURFACE	1	208	1	5	2	15	20	INDEECO WCI	1-4

NOTES:
1. QMARK, INDEECO, AND MARKEL ARE APPROVED MANUFACTURERS. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN.
2. PROVIDE WITH MOUNTING BRACKET.
3. PROVIDE 24V RELAY WITH TRANSFORMER AND BMS READY TERMINAL STRIP.
4. COLOR BY ARCHITECT.

HEAT PUMP (HP)

MARK	LOCATION SERVED	SIZE	COOLING (MBH)	EER	IEER	HEATING (MBH)	COP	ELECTRICAL			OPER WT (LBS)	DIMENSIONS			MANUFACTURER & MODEL
								VOLTAGE/PHASE	MCA	MOP		D	W	H	
HP-1	BUILDING	360	315	10.3	20.3	325	3.4	460/3	43x3	45x3	4500	260	50	126	LENNOX VRB LA
HP-2	BUILDING	360	315	10.3	20.3	325	3.4	460/3	43x3	45x3	4500	260	50	126	LENNOX VRB LA
HP-3	BUILDING	360	315	10.3	20.3	325	3.4	460/3	43x3	45x3	4500	260	50	126	LENNOX VRB LA
HP-4	BUILDING	360	315	10.3	20.3	325	3.4	460/3	43x3	45x3	4500	260	50	126	LENNOX VRB LA
HP-5	IT	312	240	11.1	22.1	N/A	N/A	460/3	43+43+27.5	45+45+30	4500	245	51	126	LENNOX VPB
HP-6	HRV	288	195	11.3	22.4	168	3.8	460/3	27.5+39.5+43	30+40+45	4500	214	34	96	LENNOX VPB LA
HP-7	HRV	288	195	11.3	22.4	168	3.8	460/3	27.5+39.5+43	30+40+45	4500	214	34	96	LENNOX VPB LA

NOTES:
- OUTDOOR COOLING DB = 100, INDOOR COOLING DB/WB = 75/63, OUTDOOR HEATING DB = -13, INDOOR HEATING DB = 70, COP AT 47 DEGREES
- LVM CENTRALIZED CONTROLLER FOR BUILDING, PROGRAMMABLE WIRED CONTROLLER (VOSTAT51P) FOR EACH FAN COIL UNIT. HAIL GUARD KIT, LOW AMBIENT COOLING KIT TO -10 DEGREES (KIT NOT REQUIRED FOR HP-6 & HP-7). ISOLATION VALVES ON EACH MODULE, AND 24" STANDS FOR EACH OUTDOOR UNIT
- VRB LA: LOW AMBIENT HEAT RECOVERY WITH HEATED BASE PAN - HEATING TO -22 DEGREES. VPB: HEAT PUMP. VPB LA: LOW AMBIENT HEAT PUMP WITH HEATED BASE PAN - HEATING TO -22 DEGREES
- LENNOX, SAMSUNG, LG, DAIKIN, MITSUBISHI ARE APPROVED MANUFACTURERS.

MODE SELECTION BOX (MSB)

MARK	MIN # OF PORTS	ELECTRICAL				DIMENSIONS (IN)			OPER WT (LBS)	CORR FC UNITS	MANUFACTURER & MODEL
		MCA	MOCP	VOLT	PH	D	W	H			
MSB-1.1	8	0.9	15	208	1	48	28	13	215	1.1-1.7	LENNOX V8MSBB
MSB-1.2	11	1.1	15	208	1	48	28	13	220	1.8-1.17	LENNOX V8MSBB
MSB-2.1	7	0.8	15	208	1	48	28	13	210	2.1-2.6	LENNOX V8MSBB
MSB-2.2	7	0.8	15	208	1	48	28	13	210	2.7-2.12	LENNOX V8MSBB
MSB-2.3	9	0.9	15	208	1	48	28	13	215	2.13-2.20	LENNOX V8MSBB
MSB-3.1	6	0.8	15	208	1	48	28	13	210	3.1-3.5	LENNOX V8MSBB
MSB-3.2	5	0.63	15	208	1	36	28	13	150	3.6-3.9	LENNOX V8MSBB
MSB-3.3	7	0.8	15	208	1	48	28	13	210	3.10-3.15	LENNOX V8MSBB
MSB-4.1	10	1.1	15	208	1	48	28	13	220	4.1-4.9	LENNOX V8MSBB
MSB-4.2	10	0.9	15	208	1	48	28	13	215	4.10-4.15,4.17-4.18, 4.21	LENNOX V8MSBB
MSB-4.3	4	0.63	15	208	1	36	28	13	150	4.16, 4.19- 4.20	LENNOX V8MSBB

NOTES:
- LENNOX, SAMSUNG, LG, DAIKIN, MITSUBISHI ARE APPROVED MANUFACTURERS.
- MAX CAPACITY PER PORT IS 54 MBH. MAX CAPACITY PER MBH IS 290 MBH. FULL PORT ISOLATION VALVES ON EACH PORT. EACH MBH TO HAVE AT LEAST 1 SPARE PORT.

EXHAUST FAN (EF)

MARK	LOCATION	TYPE	CFM	ESP (IN WC)	FAN RPM	MAX SONES	DAMPER (GRAVITY OR MOTOR)	CONTROL METHOD	OPENING SIZE (IN)	EAT (°F)	ELECTRICAL			OPER WT (LBS)	MANUFACTURER & MODEL
											VOLT	PH	HP		
EF-1	COVERED STORAGE	CEILING	150	0.4	1100	6	GRAVITY	BMS	N/A	70	120	1	0.17	15	COOK GC
EF-2	SALLY PORT	CEILING	150	0.4	1100	6	GRAVITY	BMS	N/A	70	120	1	0.17	15	COOK GC
EF-3	NARCOTICS STORAGE	INLINE	450	0.4	1414	5	GRAVITY	BMS	N/A	70	120	1	0.25	60	COOK SQN
EF-4	CHEMICAL LAB	INLINE	625	0.4	1590	7.5	GRAVITY	BMS	N/A	70	120	1	0.25	60	COOK SQN
EF-5	BAG & TAG	INLINE	305	0.4	1551	6.4	GRAVITY	BMS	N/A	70	120	1	0.17	60	COOK SQN

3

NOTES:
- COOK, GREENHECK, PENNBARRY, PANASONIC, AEROVENT, TWIN CITY AND CAPTIVEAIRE ARE APPROVED MANUFACTURERS. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN.
- PROVIDE WITH VIBRATION ISOLATION AND FAN SPEED CONTROLLER.
- PROVIDE VFD OR VARIABLE SPEED MOTOR TO INTERFACE WITH BMS FOR EF-3, 4, AND 5.

LOUVER (LV)

MARK	CFM	MAX VELOCITY (FPM)	MIN FREE AREA (SQ FT)	PRESSURE DROP	DIMENSIONS		MANUFACTURER & MODEL	NOTES
					W	H		
LV-1	8000	800	10	0.09	36	88	RUSKIN ELF375	1,2
LV-2	200	700	0.29	0.09	16	16	RUSKIN ELF375DXH	1,2
LV-3	450	600	0.75	0.09	12	24	RUSKIN ELF375DXH	1,2
LV-4	670	690	0.97	0.10	12	30	RUSKIN ELF375	1,2
LV-5	305	600	0.51	0.09	12	18	RUSKIN ELF375	1,2

NOTES:
1. RUSKIN, GREENHECK, NAILOR, AMERICAN WARMING & VENTILATION CO., NCA MANUFACTURING, POTTORFF AND ARROW UNITED ARE APPROVED MANUFACTURERS.
2. PROVIDE WITH BIRD SCREEN. COLOR BY ARCHITECT.

3

DUCT HEATER (DH)

MARK	AIRFLOW CFM	KW	STAGES	ELECTRICAL		DIMENSIONS		MANUFACTURER & MODEL
				VOLT	PH	W	H	
DH-1	8000	50	3	460	3	32	28	NEPTRONIC DF

- AUTOMATIC THERMAL CUTOUT, AUXILIARY SWITCH, MAGNETIC CONTACTOR, FAN RELAY, BACNET CONTROLLER, SCR CONTROLLER (FIRST STAGE SCR), SUPPLY AND DISCHARGE TEMPERATURE SENSORS
- NEPTRONIC & MARKEL ARE APPROVED MANUFACTURERS.

3

INDIVIDUAL FAN-COIL SCHEDULE (FC)

Mark	SIZE	TYPE	ROOM NUMBER	ROOM NAME
FC-1.1	30	DUCTED	156E	PATROL SERGEANTS
FC-1.2	15	DUCTED	157	REPORT WRITING
FC-1.3	7	CEILING 22	164	SMALL CONFERENCE
FC-1.4	48	DUCTED	165	BRIEFING ROOM
FC-1.5	30	DUCTED	166	CAPTAIN
FC-1.6	12	CEILING 22	169-1	OFFICE-1
FC-1.7	15	DUCTED	171	LIEUTENANT
FC-1.8	12	CEILING 22	254-1	IT ADMIN-1
FC-1.9	36	DUCTED	264C	DETECTIVES
FC-1.10	36	DUCTED	264A	CORRIDOR
FC-1.11	24	DUCTED	267	SERGEANT
FC-1.12	30	DUCTED	268	CONFERENCE
FC-1.13	30	DUCTED	271	CAPTAIN
FC-1.14	24	DUCTED	272-1	COMPUTER CRIMES-1
FC-1.15	24	DUCTED	257	JUVENILE LOUNGE
FC-1.16	30	WALL	253	TELE/DATA/SERVER
FC-1.17	30	WALL	253	TELE/DATA/SERVER
FC-2.1	7	DUCTED	139	MECHANICAL
FC-2.2	7	DUCTED	139	MECHANICAL
FC-2.3	7	DUCTED	139	MECHANICAL
FC-2.4	15	DUCTED	151	DUI/DRUG RECOGNITION
FC-2.5	7	CEILING 22	150	WAITING
FC-2.6	12	DUCTED	158-1	ARMORER-1
FC-2.7	48	DUCTED	002S-2	STAIR-2
FC-2.8	48	DUCTED	002S-2	STAIR-2
FC-2.9	48	DUCTED	241	RECORDS RECEPTION
FC-2.10	48	DUCTED	235	REPORT TAKING
FC-2.11	48	DUCTED	242	VOLUNTEER/INTERN
FC-2.12	36	DUCTED	245	RECORDS
FC-2.13	9	CEILING 22	247	SUPERVISOR
FC-2.14	7	CEILING 22	250	LACTATION ROOM
FC-2.16	9	CEILING 22	258A	ADMIN/ WAITING
FC-2.17	15	DUCTED	260A	EVIDENCE PROCESSING
FC-2.18	12	DUCTED	274	ICAC
FC-2.19	30	WALL	253	TELE/DATA/SERVER
FC-2.20	30	WALL	253	TELE/DATA/SERVER
FC-3.1	48	CEILING 33	122	PHYSICAL AGILITY
FC-3.2	48	CEILING 33	122	PHYSICAL AGILITY
FC-3.3	48	CEILING 33	126	BREAK ROOM
FC-3.4	48	DUCTED	127B	SWORN LOCKERS
FC-3.5	12	DUCTED	127C	CORRIDOR
FC-3.6	7	CEILING 22	140	LACTATION ROOM
FC-3.7	7	CEILING 22	152	MONITORING
FC-3.8	7	DUCTED	151	DUI/DRUG RECOGNITION
FC-3.9	15	DUCTED	156C	COPY
FC-3.10	30	DUCTED	216	BREAK ROOM
FC-3.11	48	DUCTED	221	OFFICE
FC-3.12	24	DUCTED	224	CRIME / INTEL ANALYST
FC-3.13	12	DUCTED	232	ADMIN ASSISTANTS
FC-3.14	18	DUCTED	231	LARGE CONFERENCE
FC-3.15	24	DUCTED	233	SOFT INTERVIEW
FC-4.1	15	DUCTED	102	FIREARMS STORAGE
FC-4.2	18	DUCTED	107	CORRIDOR
FC-4.3	36	DUCTED	108E	OVERSIZED EVIDENCE STORAGE
FC-4.4	12	DUCTED	110	BAG & TAG
FC-4.5	18	DUCTED	113	CHEMICAL LAB
FC-4.6	7	CEILING 22	112	BLOOD DRYING ROOM
FC-4.7	24	CEILING 33	114	VEHICLE EXAMINATION BAY
FC-4.8	18	DUCTED	115	LAB TECHS
FC-4.9	15	DUCTED	121	STORAGE
FC-4.10	15	CEILING 22	201	CAPTAIN
FC-4.11	24	DUCTED	202	LIEUTENANT
FC-4.12	9	CEILING 22	204	SERGEANT
FC-4.13	12	DUCTED	205A	COORDINATORS
FC-4.14	24	DUCTED	206A	TRAINING COORDINATOR
FC-4.15	7	DUCTED	207	STORAGE
FC-4.16	15	DUCTED	278	CORRIDOR
FC-4.17	48	DUCTED	213A	TRAINING ROOM
FC-4.18	48	DUCTED	213B	TRAINING ROOM
FC-4.19	18	DUCTED	230	MEDIA RELATIONS
FC-4.20	12	DUCTED	244	COPY/MAIL
FC-4.21	18	WALL	212	A / V
FC-5.1	24	WALL	138	ELECTRICAL
FC-5.2	30	WALL	142	TELE / DATA / SERVER
FC-5.3	24	DUCTED	278	CORRIDOR
FC-5.5	48	DUCTED	253	TELE/DATA/SERVER
FC-5.6	48	DUCTED	253	TELE/DATA/SERVER
FC-5.7.	48	DUCTED	253	TELE/DATA/SERVER
FC-5.8	30	WALL	248	ELECTRICAL
FC-5.9	24	WALL	138	ELECTRICAL
FC-5.10	48	DUCTED	253	TELE/DATA/SERVER
FC-6.1	96	DUCTED OSA	139	MECHANICAL
FC-6.2	96	DUCTED OSA	139	MECHANICAL
FC-6.3	96	DUCTED OSA	139	MECHANICAL
FC-7.1	96	DUCTED OSA	249	MECHANICAL
FC-7.2	96	DUCTED OSA	249	MECHANICAL
FC-7.3	96	DUCTED OSA	139	MECHANICAL

NOTES:
- LENNOX, SAMSUNG, LG, DAIKIN, MITSUBISHI ARE APPROVED MANUFACTURERS.
- PROVIDE CONDENSATE PUMP, AIR FILTER, CEILING ACCESS PANEL WHEN OVER HARD LID CEILINGS (COORDINATE TYPE AND COLOR WITH ARCHITECT)
- OUTDOOR COOLING DB = 100, INDOOR COOLING DB/WB = 75/63, OUTDOOR HEATING DB = -13, INDOOR HEATING DB = 70.
- ESP INCLUDES EXTERNAL DUCTING ONLY.
- PROVIDE WATER LEVEL DETECTION DEVICE PER UL 508 AT EQUIPMENT OVERFLOW DRAIN TO SHUT DOWN UNIT UPON WATER DETECTION FOR ALL CONCEALED UNITS ABOVE A CEILING.
- DUCTED OSA UNITS: COOLING EAT (DB/WB)=85/60, HEATING EAT (DB)=28. UNITS TO OPERATE TO MAINTAIN 72 DEGREE SA.

AIR DEVICE SCHEDULE

1/250 — AIR DEVICE MARK / CFM

MARK	FLOW TYPE	FACE SIZE	NECK SIZE	CFM RANGE	MAX T.P.	N.C. MAX	THROW	MODEL	NOTES
1	LOUVERED FACE CEILING SUPPLY	15" x 15"	6" Ø	95 - 140	0.08	19	8 - 9	TITUS TDC	1, 2, 3, 4, 5
			8" Ø	141 - 185	0.08	17	9 - 11		
		18" x 18"	8" Ø	186 - 245	0.08	21	11 - 13		
			10" Ø	246 - 305	0.08	19	12 - 14		
			12" Ø	306 - 410	0.10	20	12 - 15		
		24" x 24"	6" Ø	95 - 140	0.08	18	8 - 9		
			8" Ø	141 - 245	0.08	20	10 - 13		
			10" Ø	246 - 305	0.08	19	12 - 14		
			12" Ø	306 - 455	0.08	21	14 - 18		
			14" Ø	456 - 640	0.08	22	17 - 21		
			16" Ø	641 - 840	0.08	21	20 - 24		
2	VERTICAL THROW LOUVERED FACE CEILING SUPPLY	12" x 12"	6" x 6"	60 - 85	0.08	20	7 - 9	TITUS TDCA	1, 2, 3, 4
		15" x 15"	9" x 9"	86 - 170	0.10	20	9 - 14		
		18" x 18"	12" x 12"	170 - 300	0.10	20	14 - 20		
		21" x 21"	15" x 15"	301 - 470	0.10	18	20 - 25		
		24" x 24"	18" x 18"	471 - 675	0.10	19	25 - 31		
		27" x 27"	21" x 21"	676 - 920	0.10	20	31 - 38		
		30" x 30"	24" x 24"	921 - 1200	0.10	21	20 - 25		
3	SQUARE PLAQUE CEILING SUPPLY	12" x 12"	6" Ø	0 - 100	0.08	12	6 - 8	TITUS OMNI	2, 3, 4
			8" Ø	101 - 175	0.10	10	8 - 11		
		24" x 24"	6" Ø	80 - 200	0.07	21	4 - 9		
			8" Ø	201 - 295	0.08	20	8 - 12		
			10" Ø	296 - 385	0.08	15	11 - 13		
			12" Ø	386 - 465	0.08	12	13 - 15		
			14" Ø	466 - 640	0.11	14	13 - 17		
4	DUCT MOUNTED ROUND PLAQUE SUPPLY	14" Ø	6" Ø	80 - 170	0.08	19	6 - 8	TITUS R-OMNI	2, 4
		18" Ø	8" Ø	171 - 335	0.08	20	6 - 8		
		23" Ø	10" Ø	336 - 490	0.08	23	7 - 9		
		27" Ø	12" Ø	491 - 550	0.05	22	11 - 12		
		32" Ø	14" Ø	551 - 800	0.04	23	10 - 12		
7	PLENUM SLOT DIFFUSER	24" x 4"	6" Ø	70 - 125	0.08	19	15 - 19	TITUS TBD-10	1, 2, 4, 8
		24" x 4"	8" Ø	126 - 170	0.08	24	18 - 23		
		48" x 4"	8" Ø	171 - 230	0.09	18	23 - 27		
		48" x 4"	10" Ø	231 - 285	0.09	21	27 - 31		
		48" x 4"	12" Ø	286 - 370	0.09	25	31 - 35		
8	WALL SUPPLY	8" x 8"	6"x 6"	0-150	0.08	19	11-18	TITUS 272R	1, 2, 4, 6
		10" x 8"	8" x 6"	151 - 210	0.08	21	13-21		
		12" x 8"	10" x 6"	211 - 270	0.08	23	20 - 23		
		14" x 8"	12" x 6"	271 - 330	0.08	23	23 - 26		
		16" x 8"	14" x 6"	331 - 385	0.08	24	26 - 28		
		14" x 10"	12" x 8"	386 - 455	0.08	25	27 - 30		
		14" x 12"	12" x 10"	456 - 505	0.06	22	30 - 32		
		14" x 14"	12" x 12"	506 - 615	0.06	23	32 - 35		
		16" x 16"	14" x 14"	616 - 855	0.06	24	35 - 42		
		20" x 18"	18" x 16"	856-1000	0.07	47	10 - 20		
9	SPIRAL DUCT MOUNTED SUPPLY	14" x 5"	12" x 3"	40 - 70	0.10	14	7 - 9	TITUS S300FS	2, 4, 6, 7
		14" x 6"	12" x 4"	71 - 125	0.10	15	9 - 11		
		14" x 8"	12" x 6"	126 - 195	0.10	17	11 - 14		
		14" x 10"	12" x 8"	196 - 260	0.10	18	14 - 16		
		14" x 12"	12" x 10"	261 - 330	0.10	19	16 - 18		
		14" x 14"	12" x 12"	331 - 440	0.10	20	18 - 21		
10	WALL RETURN OR EXHAUST	12" x 8"	10" x 6"	0 - 205	0.10	20	N/A	TITUS 355RL	1, 2
		14" x 10"	12" x 8"	206 - 300	0.10	20			
		20" x 14"	18" x 12"	301 - 745	0.10	20			
		24" x 18"	22" x 16"	746 - 1130	0.09	20			
		24" x 22"	22" x 20"	1131 - 1450	0.08	20			
11	CEILING EGGCRATE RETURN OR EXHAUST	8" x 8"	6" x 6"	0 - 135	0.08	17	N/A	TITUS 50R	1, 2, 3
		12" x 12"	10" x 10"	136 - 415	0.08	18			
		16" x 16"	14" x 14"	416 - 855	0.08	19			
		20" x 20"	18" x 18"	856 - 1450	0.08	19			
		24" x 12"	22" x 10"	0 - 960	0.08	19			
		24" x 24"	22" x 22"	961 - 2200	0.08	20			
12	CEILING EGGCRATE TRANSFER	8" x 8"	6" x 6"	0 - 80	0.03	10	N/A	TITUS 50R	1, 2, 3
		12" x 12"	10" x 10"	81 - 240	0.03	10			
		16" x 16"	14" x 14"	241 - 495	0.03	10			
		20" x 20"	18" x 18"	496 - 835	0.03	10			
		24" x 12"	22" x 10"	0 - 555	0.03	10			
		24" x 24"	22" x 22"	556 - 1260	0.03	10			
15	FLOWBAR	7" X 64"	12" Ø	725	0.09	10	24	TITUS FL	11

*REFER TO FLOOR PLANS FOR THROW PATTERN INDICATED BY ARROWS (3-WAY, 2-WAY, OR 1-WAY). SUPPLY AIR DEVICE INTENDED TO BE 4-WAY THROW IF ARROWS ARE NOT PRESENT.

**NOT ALL AIR DEVICES IN THE AIR DEVICE SCHEDULE ARE USED.

NOTES:
1. PROVIDE FRAME COMPATIBLE WITH CEILING OR WALL TYPE. VERIFY FRAME TYPE OF ALL AIR DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLAN BEFORE ORDERING. COLOR BY ARCHITECT.
2. TITUS, CARNES, NAILOR, PRICE, METALAIRE, TUTTLE, BAILEY AND KRUEGER ARE APPROVED MANUFACTURERS. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN. 3
3. ONLY 24" x 24" OR 24" x 12" FACE SIZE AIR DEVICES TO BE USED IN LAY-IN GRID CEILINGS. VERIFY CEILING TYPE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
4. THROW VALUE RANGE IS FOR TERMINAL VELOCITIES OF 50 FPM BASED ON THE CFM RANGE. THROW VALUES BASED ON ISOTHERMAL CONDITIONS.
5. FACE SIZE TO CORRESPONDING CORE SIZE - 15"x15" FACE : 9"x9" CORE, 18"x18" FACE: 12"x12" CORE, 24"x24" FACE: 18"x18" CORE.
6. DOUBLE DEFLECTION GRILLE. PERFORMANCE IS BASED ON 22.5 DEGREE DEFLECTION.
7. PROVIDE ASD-AIR SCOOP DAMPER/ EXTRACTOR. MAX DUCT DIAMETER = 36". MIN DUCT DIAMETER : NECK SIZE HEIGHT - 6":3", 8":4", 10":6", 12":8", 14":10", 16":12".
8. (2) 1" SLOTS WITH TWO-WAY AIR PATTERN.
9. AMERICAN ALDES IS APPROVED MANUFACTURER. DUCT PRESSURE MUST BE BETWEEN 0.2" AND 0.8" (POSITIVE FOR SUPPLY AND NEGATIVE FOR EXHAUST).
10. PROVIDE OPPOSED BLADE DAMPER WITH SET/ TAMPER RESISTANT SCREW.
11. (1) 3" SLOT WITH JETTHROW PATTERN CONTROLLERS. MULTIPLE 5' LENGTHS FOR CONTINUOUS APPEARANCE.

GAS UNIT HEATER (UH)

MARK	INPUT (MBH)	MIN EFF	CFM	VOLT	PH	FLA	MOCP	DIMENSIONS (IN)			OPER WT (LBS)	MANUFACTURER & MODEL
								L	W	H		
UH-1	45	82	700	120	1	3.7	15	27	41	17	95	REZNOR UBZ

NOTES:
- SEPARATED COMBUSITON, HIGH STATIC BLOWER, 2-STAGE GAS VALVE, 4" VENT AND 4" COMBUSTION AIR, VERTICAL COMBUSTION AIR/VENT KIT WITH CONCENTRIC ADAPTOR, HANGING KIT, BMS READY TERMINAL STRIP.
- REZNOR AND MODINE ARE APPROVED MANUFACTURERS.

3

ENERGY RECOVERY VENTILATOR (ERV)

MARK	SUPPLY		EXHAUST		WINTER				SUMMER				ELECTRICAL			DIMENSIONS (IN)			OPER WT (LBS)	MANUFACTURER & MODEL
					SUPPLY		EXHAUST		SUPPLY		EXHAUST									
	AIRFLOW (CFM)	ESP (IN WC)	AIRFLOW (CFM)	ESP (IN WC)	EAT (DB/WB)(°F)	LAT (DB/WB)(°F)	EAT (DB/WB)(°F)	LAT (DB/WB)(°F)	EAT (DB/WB)(°F)	LAT (DB/WB)(°F)	EAT (DB/WB)(°F)	LAT (DB/WB)(°F)	VOLT	PHASE	FLA	L	W	H		
ERV-1	8000	1	6000	1.5	-10/-10	45/38	70/50	-4/-4	95/60	81/59	75/59	93/60	460	3	21.6	188	82	88	8600	SWEGON

NOTES: 3
- SWEGON, TEMPEFF, COOK, TEMTROL, DAIKIN AND LG ARE APPROVED MANUFACTURERS.
- DOUBLE WALL CONSTRUCTION WITH MINERAL WOOL INSULATION,HINGED ACCESS DOORS INTO EVERY SECTION, FAN ISOLATION, SUPPLY AND EXHAUST FAN VFD, ENTHALPY WHEEL WITH VFD, MERV 8 SUPPLY AND EXHAUST FILTER, MERV 11 SUPPLY FINAL FILTER, ISOLATION DAMPERS, SINGLE POINT ELECTRICAL.
- REFER TO SEQUENCE OF OPERATION FOR CONTROL REQUIREMENTS.
- UNIT WILL OPERATE AT DECREASED AIRFLOWS OF 3,900 CFM EXHAUST AND 3,900 CFM SUPPLY. ENSURE UNIT IS CAPABLE OF STABLE OPERATION AT DECREASED AIRFLOWS. MANUFACTURER TO ENSURE DEFROST STRATEGY IS ACCEPTABLE AT ALL CONDITIONS.

MAXIMUM SOUND CRITERIA FOR ERV

FREQUENCY BAND	63	125	250	500	1K	2K	4K	8K		ALL	
TO SUPPLY AIR DUCT	84	79	81	83	80	79	77	77	dB	86	Db(A)
TO OUTDOOR AIR DUCT	79	78	79	67	59	57	56	59	dB	72	Db(A)
TO EXTRACT AIR DUCT	77	76	77	65	57	55	54	57	dB	71	Db(A)
TO EXHAUST AIR DUCT	82	77	79	81	78	77	75	75	dB	84	Db(A)
TO SURROUNDINGS	75	67	60	84	49	48	45	48	dB	63	Db(A)

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IDAHO FALLS POLICE HEADQUARTERS

IDAHO FALLS, ID

Project No.
1047-20

Revisions:

3	03/17/2022	Addendum 3

BID ISSUE

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MECHANICAL SCHEDULES

M-601

GAS FIRED WATER HEATER (WH)

MARK	INPUT (MBH)	OUTPUT (MBH)	EFF (%)	FUEL TYPE	CAP (GAL)	RECOVERY (GAL/HR)	TEMP RISE (°F)	FLUE DIA (IN)	FLUE TYPE	DIMENSIONS (IN) H	DIMENSIONS (IN) D	OPER WT (LBS)	MANUFACTURER & MODEL	NOTES
WH-1	200	190	95	NG	100	233	90	4	PVC	72	28	2500	PVI CONQUEST	1,2,3
WH-2	200	190	95	NG	100	233	90	4	PVC	72	28	2500	PVI CONQUEST	1,2,3

NOTES:
1. INTELLIHOT, PVI, RHEEM, NAVIEN, AO SMITH, STATE, AMERICAN, AND LOCHINVAR ARE APPROVED MANUFACTURERS. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN.
2. PROVIDE WITH CONDENSATE NEUTRALIZATION KIT.
3. PROVIDE WITH ELECTRICAL SERVICE OF 120 V, 1 PH, 5 AMPS.

EXPANSION TANK (ET)

MARK	SYSTEM SERVED	WATER TEMP (°F)	TANK VOL (GAL)	ACCEP VOL (GAL)	PRE CHARGE (PSI)	DIMENSIONS (IN) H	DIMENSIONS (IN) D	OPER WT (LBS)	MANUFACTURER & MODEL	NOTES
ET-1	DHW	140	26	17.5	40	34	16	100	WATTS DETA	1,2

NOTES:
1. AMTROL, WATTS, ELBI, AND TACO ARE APPROVED MANUFACTURERS. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN.
2. TO BE SUITABLE FOR POTABLE WATER.

MIXING VALVE (MV)

MARK	FLOW GPM MIN	FLOW GPM MAX	INLET SIZE (IN)	OUTLET SIZE (IN)	DIMENSIONS (IN) L	DIMENSIONS (IN) W	DIMENSIONS (IN) H	MANUFACTURER & MODEL	NOTES
MV-1	1.5	45	2	2	27	8	60	BRADLEY HL	1,2,3

NOTES:
1. ARMSTRONG, ACORN, BRADLEY, LAWLER, AND WATTS ARE APPROVED MANUFACTURERS. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN.
2. PROVIDE WITH HOUSING AND INTERGRAL THERMOSTATS.
3. VALVE TO HAVE A MAX PRESSURE DROP OF 5 PSI AT THE SCHEDULED FLOW RATE.

WATER SOFTENER (WS)

MARK	CONTINUOUS FLOW RATE PER TANK (GPM)	# OF MINERAL TANKS	INLET HARDNESS (GRAINS PER GALLON)	MAX OUTLET HARDNESS (GRAINS/ GAL)	VALVE SIZE (IN)	MAX PD (PSI)	ELECTRICAL VOLT	ELECTRICAL PH	ELECTRICAL MCA	DIMENSIONS D X H (IN) SOFTENER	DIMENSIONS D X H (IN) BRINE	OPER WT (LBS)	MANUFACTURER & MODEL	NOTES
WS-1	87	1	14	3	2	15	120	1	5	30 X 72	30 X 50	1000	WATER TECH SM	1

NOTES:
1. CULLIGAN, WATER TECH, AQUION, COLUMBIA WATER CONDITIONING, NORTH STAR, PACIFIC AND EVOQUA ARE APPROVED MANUFACTURER. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN.

CIRCULATOR PUMP (CP)

MARK	DUTY	GPM	HEAD (FT)	ELECTICAL HP	ELECTICAL VOLT	ELECTICAL PH	OPER WT (LBS)	MANUFACTURER & MODEL	NOTES
CP-1	DHWR	15	15	0.25	120	1	100	GRUNDFOS MAGNA	1,2,3,4
CP-2	DHWR	15	15	0.25	120	1	100	GRUNDFOS MAGNA	1,2,3,4

NOTES:
1. GRUNDFOS, TACO, AND BELL AND GOSSETT ARE APPROVED MANUFACTURERS. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN.
2. PROVIDE WITH AQUASTAT KIT.
3. PUMPS TO ALTERNATE USE.
4. PUMPS TO BE SUITABLE FOR POTABLE WATER.

BOOSTER PUMP (BP)

MARK	TYPE	DUTY	# PUMPS / # REDUNDANT	TOTAL GPM	MINIMUM INLET PRESSURE	MAX OUTLET PRESSURE	MIN EFF (%)	ELECTRICAL HP PER PUMP	ELECTRICAL VOLT	ELECTRICAL PH	OPER WT (LBS)	MANUFACTURER & MODEL	NOTES
BP-1	BOOSTER	DCW	2/1	87	36	80	70	3	480	3	250	GRUNDFOS BOOSTERPAQ	1,2,3,4

NOTES:
1. GRUNDFOS, VC SYSTEMS, TACO, LIBERTY, PATTERSON, AND BELL AND GOSSETT ARE APPROVED MANUFACTURERS. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN.
2. PUMPS TO BE PROVIDED WITH ECM MOTORS. BOOSTER SYSTEM TO BE PROVIDED WITH PRESSURE SENSOR AND CONTROL PANEL TO MAINTAIN PRESSURE SET POINT THROUGH CONTROL PANEL. PROVIDE WITH VERTICAL BLADDER EXPANSION TANK FOR POTABLE WATER WITH REPLACEABLE BLADDER (MAX DESIGN PRESSURE OF 125 PSI, AMTROL, TACO, WATTS, OR APPROVED EQUAL). EXPANSION TANK TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.
3. BOOSTER PUMP TO HAVE A TOTAL OF (2) PUMPS, PROVIDE WITH SINGLE POINT ELECTRICAL. ELECTRICAL TO BE SIZED TO HANDLE ALL PUMPS RUNNING AT THE SAME TIME.
4. CONTRACTOR TO VERIFY WATER PRESSURE COMING INTO BUILDING AND DELIVER UPDATED INFORMATION TO ENGINEER PRIOR TO PURCHASE AND INSTALLATION OF BOOSTER PUMP.

SUMP PUMP (SP)

MARK	DUTY	GPM	HEAD (FT)	HP	ELECTRICAL VOLT	ELECTRICAL PH	OPER WT (LBS)	MANUFACTURER & MODEL	NOTES
SP-1	ELEVATOR PIT	50	15	0.5	120	1	50	STANCOR SV	1,2

NOTES:
1. ZOELLER, LIBERTY, STANCOR, AND GROUNDFOS ARE APPROVED MANUFACTURERS. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN.
2. PROVIDE WITH OIL MINDER CONTROLS.

PLUMBING FIXTURES

MARK	DESCRIPTION	CW	HW	WASTE	VENT	VOLT	NOTES
DN-1	DOWNSPOUT NOZZLE, PERFORATED HINGED COVER	-	-	SEE PLAN	-	-	J.R. SMITH FIG.#1775
E1	EMERGENCY EYE WASH	1/2"	1/2"	1 1/2"	1 1/2"	-	EQUIPMENT BY OTHERS. REFER TO FURNITURE & EQUIPMENT PLANS + SCHEDULE
E7	ICE MAKER	1/2"	-	-	-	120	EQUIPMENT BY OTHERS. REFER TO FURNITURE & EQUIPMENT PLANS + SCHEDULE
E23	DISHWASHER	-	1/2"	-	-	120	EQUIPMENT BY OTHERS. REFER TO FURNITURE & EQUIPMENT PLANS + SCHEDULE
E49	DOG GROOMING TUB	1/2"	1/2"	2"	1 1/2"	-	EQUIPMENT BY OTHERS. REFER TO FURNITURE & EQUIPMENT PLANS + SCHEDULE
E61	EMERGENCY SHOWER AND EYE WASH STATION	1 1/4"	1 1/4"	2"	1 1/2"	-	EQUIPMENT BY OTHERS. REFER TO FURNITURE & EQUIPMENT PLANS + SCHEDULE
EWC-1	INDOOR BI-LEVEL ELECTRIC WATER COOLER, ADA, REFRIGERATED, FILTERED	1/2"	-	1 1/2"	1 1/2"	120	ELKAY LZSTL8WSSP
FD-1	FLOOR DRAIN, TRAP PRIMER CONNECTION, VANDAL-PROOF SECURED TOP	-	-	2"	1 1/2"	-	ZURN Z415S-DP
FS-1	FLOOR SINK, VERIFY GRATE SIZE W/ FLOOR SINK APPLICATION	-	-	3"	1 1/2"	-	ZURN Z1910
FS-2	FLOOR SINK, VERIFY GRATE SIZE W/ FLOOR SINK APPLICATION	-	-	4"	2"	-	ZURN Z1901
FUD-1	FUNNEL DRAIN WITH P-TRAP	-	-	3"	2"	-	ZURN Z1019
HB-1	AUTO DRAIN, NON-FREEZE WALL HYDRANT W/ INTEGRAL VACUUM BREAKER, 3/4" HOSE CONNECTION, "T" HANDLE KEY, BREAKER PLATE	3/4"	-	-	-	-	ZURN Z1321-C
HB-2	HOT & COLD WALL HYDRANT W/ INTEGRAL VACUUM BREAKER, 3/4" HOSE CONNECTION, "T" HANDLE KEY, BREAKER PLATE	3/4"	3/4"	-	-	-	WOODFORD B22
L-1	LAVATORY, WALL MOUNTED LAVATORY, ADA, BATTERY-POWERED FAUCET, MIXING VALVE (ASSE 1070), DRAIN ASSEMBLY	1/2"	1/2"	1 1/2"	1 1/2"	-	BASIN: ZURN Z5360-PED FAUCET: ZURN Z6915-XL MIXING VALVE: LEONARD 270-LF SET AT 110°F
RD-1	12" DIAMETER COMBINATION MAIN ROOF AND OVERFLOW DRAIN WITH LOW SILHOUETTE DOMES AND DOUBLE TOP-SET DECK PLATE	-	-	SEE PLAN	-	-	ZURN Z164
RH-1	ROOF HYDRANT, NO DRAIN LINE, BACKFLOW PREVENTOR, ROOF FLUSH MOUNT, 3/4" HOSE CONNECTION.	3/4"	-	-	-	-	PRIER P-RH1
S-1	BREAKROOM SINK, ADA, SINGLE COMPARTMENT, W/ FAUCET, DRAIN ASSEMBLY, 1/2 HP GARBAGE DISPOSER W/ CORD AND PLUG.	1/2"	1/2"	2"	1 1/2"	120	BASIN: ELKAY ELUHAD281655 FAUCET: ELKAY LKGT4083 DRAIN: ELKAY LK99 GARBAGE DISPOSER: BADGER 5
S-2	SINK, ADA, SINGLE COMPARTMENT, DRAIN ASSEMBLY, W/ FAUCET	1/2"	1/2"	2"	1 1/2"	-	BASIN: ELKAY ELUHAD211555PD FAUCET: ELKAY LKGT4083 DRAIN: ELKAY LK99
S-3	INTEGRAL SINK, 23-1/2"L X 18-1/4"W X 5-3/8"D	1/2"	1/2"	2"	1 1/2"	-	BASIS OF DESIGN: ONEPOINTE FAUCET: ZURN Z826U4-XL
S-4	INTEGRAL SINK 39"L X 18"W X 12"D	1/2"	1/2"	2"	1 1/2"	-	BASIS OF DESIGN: ONEPOINTE FAUCET: ZURN Z826U4-XL
SH-1	SHOWER, PRESSURE BALANCING MIXING VALVE, TEMPERATURE LIMIT STOPS, SHOWER PAN, SHOWER HEAD, DRAIN ASSEMBLY	1/2"	1/2"	2"	1 1/2"	-	TRIM & VALVE: DELTA T14267-LHD (LESS SHOWER HEAD), R10000-UNWS SHOWER HEAD: DELTA RP48590 LINEAR DRAIN: ZURN ZS880
SH-2	ADA, ROLL-IN SHOWER, PRESSURE BALANCING MIXING VALVE, TEMPERATURE LIMIT STOPS, TUB SPOUT, SHOWER HEAD, HAND HELD SHOWER W/ SHOWER HEAD, DIVERTER VALVE, DRAIN ASSEMBLY	1/2"	1/2"	2"	1 1/2"	-	TRIM & VALVE: DELTA T14267-LHD (LESS SHOWER HEAD), R10000-UNWS SHOWER HEAD: DELTA RP48590 HAND HELD SHOWER: DELTA 55424 LINEAR DRAIN: ZURN ZS880
SH-3	ADA, ROLL-IN SHOWER, PRESSURE BALANCING MIXING VALVE, TEMPERATURE LIMIT STOPS, TUB SPOUT, SHOWER HEAD, HAND HELD SHOWER W/ SHOWER HEAD, DIVERTER VALVE, DRAIN ASSEMBLY, VERIFY FINAL PAN SIZE	1/2"	1/2"	2"	1 1/2"	-	TRIM & VALVE: DELTA T14267-LHD (LESS SHOWER HEAD), R10000-UNWS SHOWER HEAD: DELTA RP48590 HAND HELD SHOWER: DELTA 55424 LINEAR DRAIN: ZURN ZS880
SOI-1	500 GALLON SAND/OIL INTERCEPTOR, TRAFFIC RATED COVER	-	-	4"	2"	-	OLDCASTLE PRECAST
SS-1	SERVICE SINK, VACUUM BREAKER FAUCET, HOSE HOLDER, MOP HANGER, WALL GUARD	1/2"	1/2"	3"	2"	-	BASIN: E.L. MUSTEE & SONS 62M FAUCET: E.L. MUSTEE & SONS 63.600A
TD-1	TRENCH DRAIN,TRAFFIC RATED, PROVIDE P-TRAP AT TRENCH DRAIN OUTLET WITH TRAP PRIMER, TRENCH DRAIN COMES IN 80" SECTIONS, REFER TO FLOOR PLAN FOR NUMBER OF SECTIONS	-	-	4"	2"	-	ZURN Z886
WB-1	ICE MAKER WALL BOX, GALVANIZED METAL	1/2"	-	-	-	-	RATED: GUY GRAY FR-12 NOT RATED: GUY GRAY BIM875
WB-2	WASHING MACHINE BOX, GALVANIZED METAL	1/2"	1/2"	2"	1 1/2"	-	RATED: GUY GRAY FR-12 NOT RATED: GUY GRAY B200
WC-1	ADA WATER CLOSET, FLOOR MOUNTED, BATTERY POWERED FLUSH VALVE, W/ OPEN SEAT W/O COVER	1"	-	3"	2"	-	BOWL: KOHLER K-96057 FLUSH VALVE: AMERICAN STANDARD 6065.121.002
WC-2	ADA WATER CLOSET, FLOOR MOUNTED, REMOTE FLUSHOMETER, W/ OPEN SEAT W/O COVER	1"	-	3"	2"	-	BOWL: KOHLER K-96057 FLUSHOMETER: SLOAN ROYAL 952
YD-1	YARD HYDRANT, FREEZELESS W/ BACKFLOW PREVENTOR	1"	-	-	-	-	WOODFORD Y2

*VERIFY ACCEPTANCE OF ALL PLUMBING FIXTURES WITH ARCHITECT, AND OWNER PRIOR TO PURCHASE AND INSTALLATION. ALL FIXTURES TO BE COMMERCIAL GRADE OR BETTER.

NOTES:
1. THE FOLLOWING FLOOR SINK GRATES TO BE INSTALLED FOR THE APPROPRIATE APPLICATION: FULL GRATE: FLOOR SINK WITHOUT INDIRECT DRAIN PIPE. 3/4 GRATE: FLOOR SINK WITH ONE INDIRECT DRAIN PIPE, 1/2 GRATE: FLOOR SINK WITH MULTIPLE INDIRECT DRAIN PIPES, NO GRATE: FLOOR SINK WITH MORE THAN (5) INDIRECT DRAIN PIPES.
2. IN ADDITION TO APPROVED FIXTURE MANUFACTURERS LISTED IN THE SPECIFICATIONS, MURDOCK, WOODFORD, SLOAN, WATTS, AND LAWLER ARE APPROVED MANUFACTURERS.

FIXTURE FLOW RATE

FIXTURE	MAX FLOW RATE
SINKS	2.2 GPM
SHOWER HEADS	2.5 GPM
WATER CLOSETS	1.6 GAL/FLUSH
METERING FAUCETS	0.25 GAL/CYCLE

NOTES:
A. FIXTURES EXCLUDED: CLINICAL SINKS, LAUNDRY TRAYS, AND SERVICE SINKS

ALL EQUIPMENT SELECTED AT SITE ELEVATION (4700') UNLESS NOTED OTHERWISE.

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IDAHO FALLS POLICE HEADQUARTERS

IDAHO FALLS, ID

Project No.
1047-20

Revisions:

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Issue Date:
2022.02.10

Drawn by: **GM**
Checked by: **JJ**

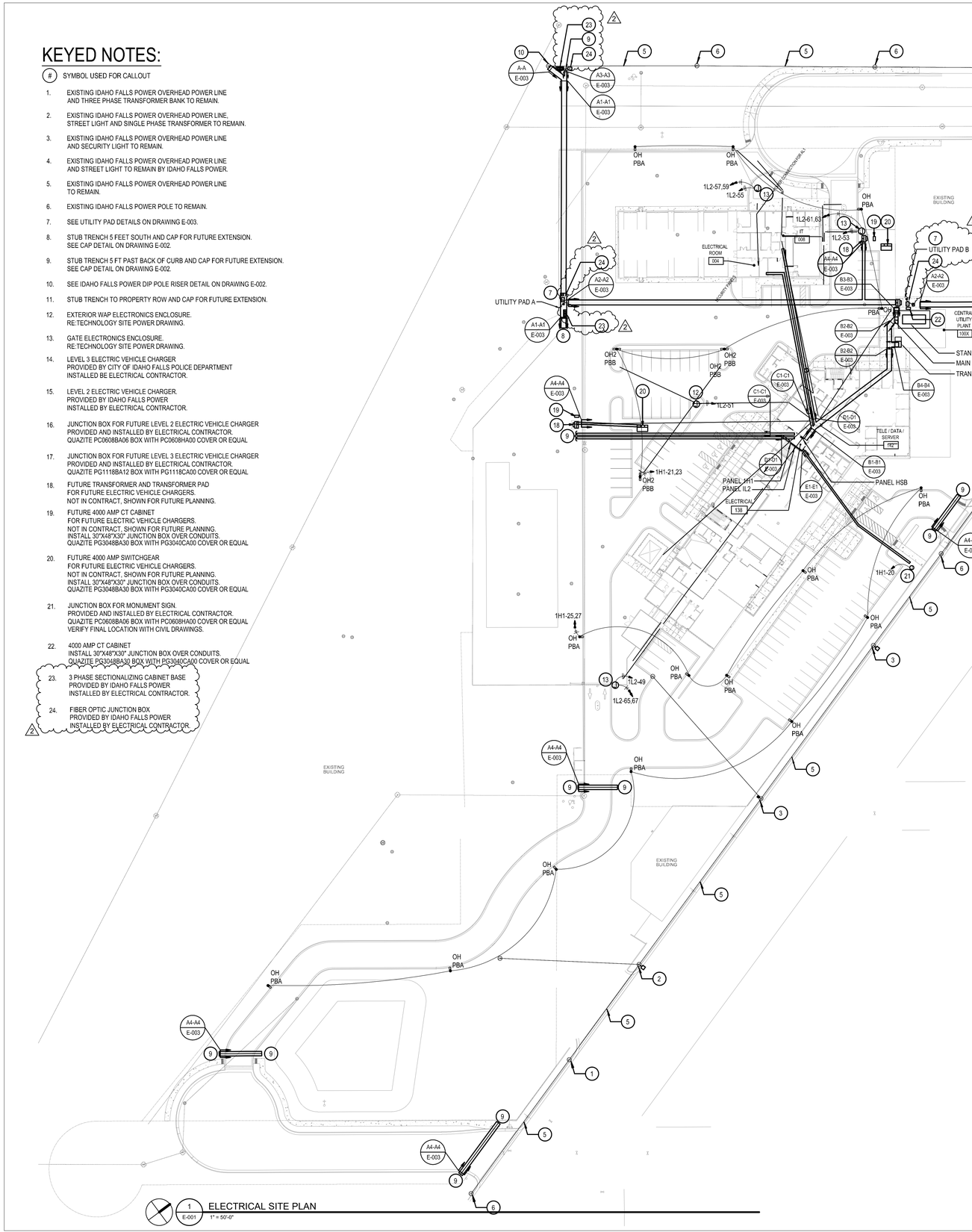
PLUMBING SCHEDULES

P-601

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. EXISTING IDAHO FALLS POWER OVERHEAD POWER LINE AND THREE PHASE TRANSFORMER BANK TO REMAIN.
2. EXISTING IDAHO FALLS POWER OVERHEAD POWER LINE, STREET LIGHT AND SINGLE PHASE TRANSFORMER TO REMAIN.
3. EXISTING IDAHO FALLS POWER OVERHEAD POWER LINE AND SECURITY LIGHT TO REMAIN.
4. EXISTING IDAHO FALLS POWER OVERHEAD POWER LINE AND STREET LIGHT TO REMAIN BY IDAHO FALLS POWER.
5. EXISTING IDAHO FALLS POWER OVERHEAD POWER LINE TO REMAIN.
6. EXISTING IDAHO FALLS POWER POLE TO REMAIN.
7. SEE UTILITY PAD DETAILS ON DRAWING E-003.
8. STUB TRENCH 5 FEET SOUTH AND CAP FOR FUTURE EXTENSION. SEE CAP DETAIL ON DRAWING E-002.
9. STUB TRENCH 5 FT PAST BACK OF CURB AND CAP FOR FUTURE EXTENSION. SEE CAP DETAIL ON DRAWING E-002.
10. SEE IDAHO FALLS POWER DIP POLE RISER DETAIL ON DRAWING E-002.
11. STUB TRENCH TO PROPERTY ROW AND CAP FOR FUTURE EXTENSION.
12. EXTERIOR WAP ELECTRONICS ENCLOSURE. RE:TECHNOLOGY SITE POWER DRAWING.
13. GATE ELECTRONICS ENCLOSURE. RE:TECHNOLOGY SITE POWER DRAWING.
14. LEVEL 3 ELECTRIC VEHICLE CHARGER PROVIDED BY CITY OF IDAHO FALLS POLICE DEPARTMENT INSTALLED BE ELECTRICAL CONTRACTOR.
15. LEVEL 2 ELECTRIC VEHICLE CHARGER. PROVIDED BY IDAHO FALLS POWER INSTALLED BY ELECTRICAL CONTRACTOR.
16. JUNCTION BOX FOR FUTURE LEVEL 2 ELECTRIC VEHICLE CHARGER PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. QUAZITE PC0608BA06 BOX WITH PC0608HA00 COVER OR EQUAL
17. JUNCTION BOX FOR FUTURE LEVEL 3 ELECTRIC VEHICLE CHARGER PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. QUAZITE PG1118BA12 BOX WITH PG1118CA00 COVER OR EQUAL
18. FUTURE TRANSFORMER AND TRANSFORMER PAD FOR FUTURE ELECTRIC VEHICLE CHARGERS. NOT IN CONTRACT, SHOWN FOR FUTURE PLANNING.
19. FUTURE 4000 AMP CT CABINET FOR FUTURE ELECTRIC VEHICLE CHARGERS. NOT IN CONTRACT, SHOWN FOR FUTURE PLANNING. INSTALL 30"X48"X30" JUNCTION BOX OVER CONDUITS. QUAZITE PG3048BA30 BOX WITH PG3040CA00 COVER OR EQUAL
20. FUTURE 4000 AMP SWITCHGEAR FOR FUTURE ELECTRIC VEHICLE CHARGERS. NOT IN CONTRACT, SHOWN FOR FUTURE PLANNING. INSTALL 30"X48"X30" JUNCTION BOX OVER CONDUITS. QUAZITE PG3048BA30 BOX WITH PG3040CA00 COVER OR EQUAL
21. JUNCTION BOX FOR MONUMENT SIGN. PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. QUAZITE PC0608BA06 BOX WITH PC0608HA00 COVER OR EQUAL VERIFY FINAL LOCATION WITH CIVIL DRAWINGS.
22. 4000 AMP CT CABINET INSTALL 30"X48"X30" JUNCTION BOX OVER CONDUITS. QUAZITE PG3048BA30 BOX WITH PG3040CA00 COVER OR EQUAL
23. 3 PHASE SECTIONALIZING CABINET BASE PROVIDED BY IDAHO FALLS POWER INSTALLED BY ELECTRICAL CONTRACTOR.
24. FIBER OPTIC JUNCTION BOX PROVIDED BY IDAHO FALLS POWER INSTALLED BY ELECTRICAL CONTRACTOR.



1 E-001 ELECTRICAL SITE PLAN
1" = 50'-0"

2 E-001 ELECTRICAL SITE PLAN - ELECTRIC VEHICLE CHARGER LOCATIONS
1" = 50'-0"

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Registration No: AR94944

IDAHO FALLS POLICE HEADQUARTERS

IDAHO FALLS, ID

Project No.
1047-20

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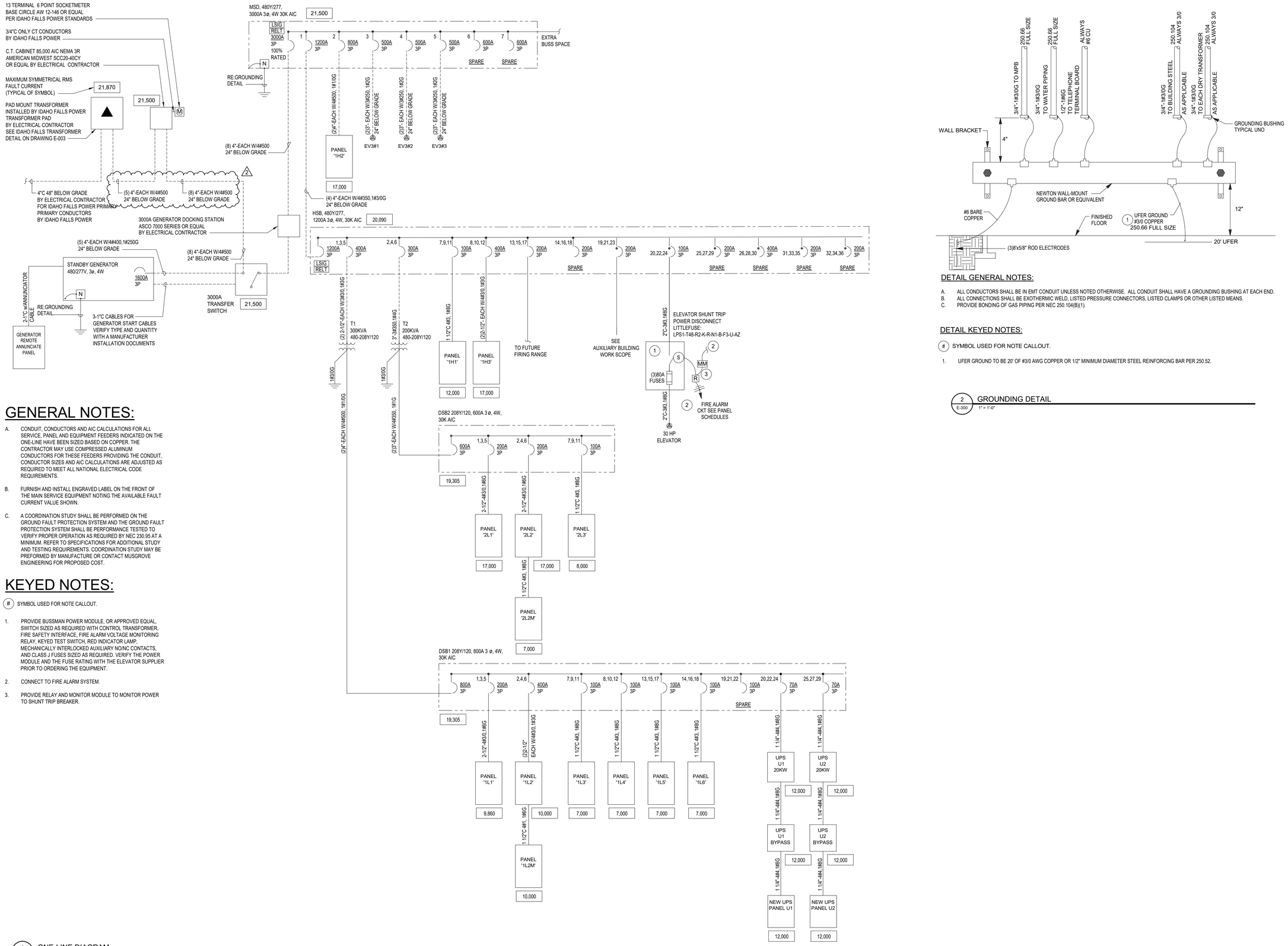
SITE ELECTRICAL PLAN

E-001



DETAIL GENERAL NOTES:

A. ALL CONDUCTORS SHALL BE IN EMT CONDUIT UNLESS NOTED OTHERWISE. ALL CONDUIT SHALL HAVE A GROUNDING BUSHING AT EACH END.
B. ALL CONNECTIONS SHALL BE EXOTHERMIC WELD, LISTED PRESSURE CONNECTORS, LISTED CLAMPS OR OTHER LISTED MEANS.
C. PROVIDE BONDING OF GAS PIPING PER NEC 250.104(B)(1).

DETAIL KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. UFER GROUND TO BE 20' OF #3/0 AWG COPPER OR 1/2" MINIMUM DIAMETER STEEL REINFORCING BAR PER 250.52.

2 / E-300 GROUNDING DETAIL
1" = 1'-0"

GENERAL NOTES:

A. CONDUIT, CONDUCTORS AND AIC CALCULATIONS FOR ALL SERVICE, PANEL AND EQUIPMENT FEEDERS INDICATED ON THE ONE-LINE HAVE BEEN SIZED BASED ON COPPER. THE CONTRACTOR MAY USE COMPRESSED ALUMINUM CONDUCTORS FOR THESE FEEDERS PROVIDING THE CONDUIT, CONDUCTOR SIZES AND AIC CALCULATIONS ARE ADJUSTED AS REQUIRED TO MEET ALL NATIONAL ELECTRICAL CODE REQUIREMENTS.

B. FURNISH AND INSTALL ENGRAVED LABEL ON THE FRONT OF THE MAIN SERVICE EQUIPMENT NOTING THE AVAILABLE FAULT CURRENT VALUE SHOWN.

C. A COORDINATION STUDY SHALL BE PERFORMED ON THE GROUND FAULT PROTECTION SYSTEM AND THE GROUND FAULT PROTECTION SYSTEM SHALL BE PERFORMANCE TESTED TO VERIFY PROPER OPERATION AS REQUIRED BY NEC 230.95 AT A MINIMUM. REFER TO SPECIFICATIONS FOR ADDITIONAL STUDY AND TESTING REQUIREMENTS. COORDINATION STUDY MAY BE PREFORMED BY MANUFACTURE OR CONTACT MUSGROVE ENGINEERING FOR PROPOSED COST.

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. PROVIDE BUSSMAN POWER MODULE, OR APPROVED EQUAL, SWITCH SIZED AS REQUIRED WITH CONTROL TRANSFORMER, FIRE SAFETY INTERFACE, FIRE ALARM VOLTAGE MONITORING RELAY, KEYED TEST SWITCH, RED INDICATOR LAMP, MECHANICALLY INTERLOCKED AUXILIARY NO/NC CONTACTS, AND CLASS J FUSES SIZED AS REQUIRED. VERIFY THE POWER MODULE AND THE FUSE RATING WITH THE ELEVATOR SUPPLIER PRIOR TO ORDERING THE EQUIPMENT.
2. CONNECT TO FIRE ALARM SYSTEM.
3. PROVIDE RELAY AND MONITOR MODULE TO MONITOR POWER TO SHUNT TRIP BREAKER.

1 / E-300 ONE-LINE DIAGRAM
12" = 1'-0"

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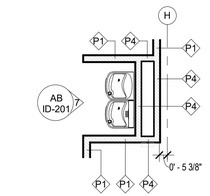
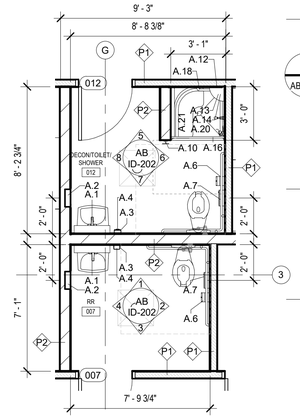
ONE-LINE DIAGRAM

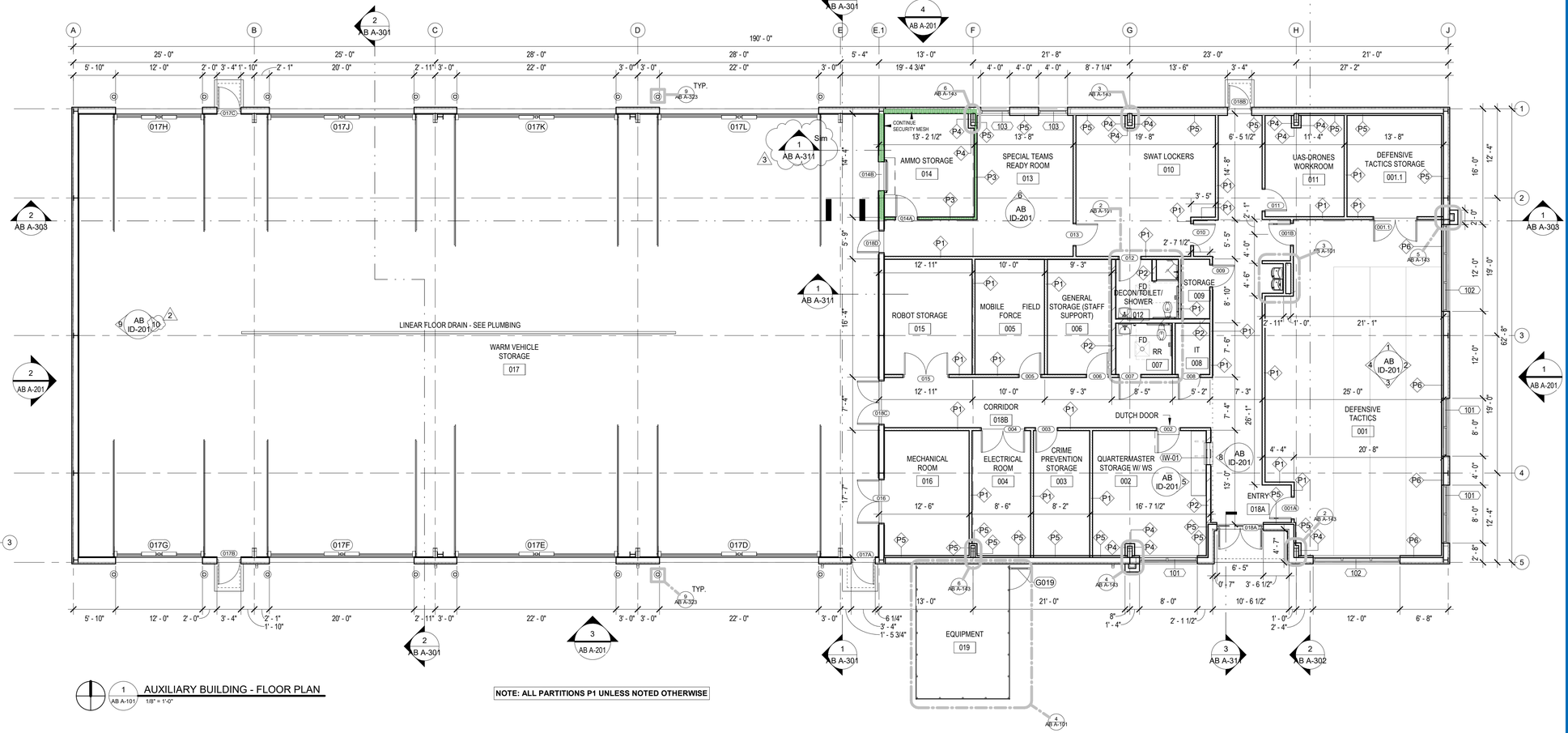
E-300



3 ENLARGED FLOOR PLANS - DF
3 / AB A-101 — 1/4" = 1'-0"

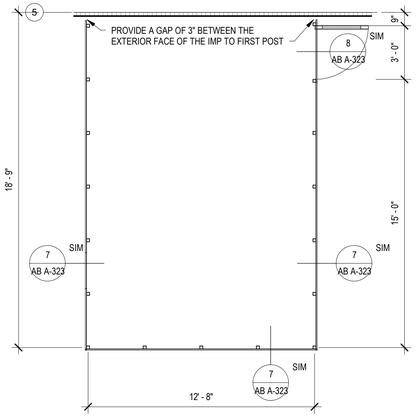


2 ENLARGED FLOOR PLAN - RR
2 / AB A-101 — 1/4" = 1'-0"

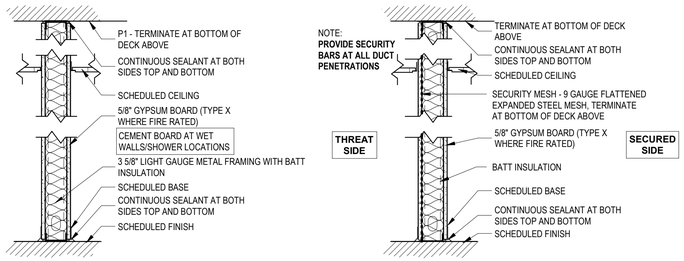


1 AUXILIARY BUILDING - FLOOR PLAN
1 / AB A-101 — 1/8" = 1'-0"

NOTE: ALL PARTITIONS P1 UNLESS NOTED OTHERWISE



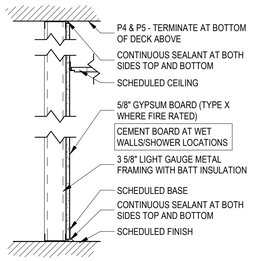
4 MECHANICAL ENCLOSURE
4 / AB A-101 — 1/4" = 1'-0"



P1 **3 5/8" PARTITION** **1"=1'-0"**

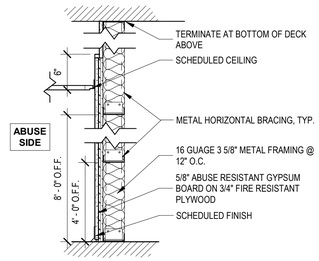
P2 **6" PARTITION** **1"=1'-0"** SIMILAR TO P1 WITH 6" METAL STUDS

P3 **3 5/8" PARTITION - SECURITY WALL** **1"=1'-0"**



P4 **3 5/8" FURRING** **1"=1'-0"**

P5 **2 1/2" FURRING** **1"=1'-0"** SIMILAR TO P7 WITH 2 1/2" METAL STUD



P6 **2 1/2" ABUSE RESISTANT FURRING** **1"=1'-0"** 16 GUAGE 2 1/2" METAL STUDS & HORIZONTAL BRACING

PARTITION TYPES - AUXILIARY
1" = 1'-0"

WALL TYPES LEGEND

TAG	SYMBOL	DESCRIPTION
P1 – P2		P1 - 3 5/8" PARTITION P2 - SIMILAR TO P1 WITH 6" METAL STUDS.
P3		**SECURITY** P3 - 3 5/8" PARTITION
P4 – P5		**FURRING** P4 - 3 5/8" METAL STUD P5 - 2 1/2" METAL STUD
P6		**ABUSE RESISTANT FURRING** P6 - 2 1/2" METAL STUD

DOOR LEGEND

TAG	
###	DOOR SYSTEM

WINDOW TYPES LEGEND

TAG	DESCRIPTION
EW-#	EXTERIOR WINDOW SYSTEMS
IW-#	INTERIOR WINDOW SYSTEMS
SF-#	STOREFRONT SYSTEMS

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2022.03.17
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IDAHO FALLS POLICE HEADQUARTERS - AUXILIARY BUILDING

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1047-20A

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2022.02.10

Drawn by: GT
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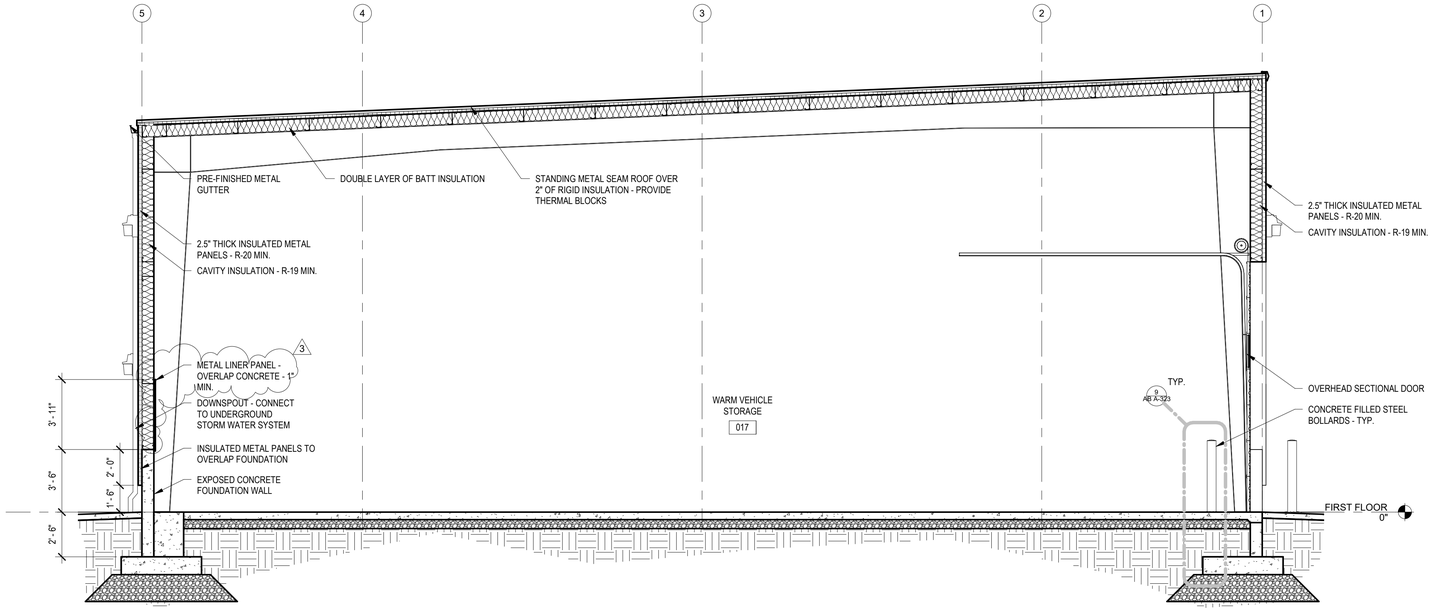
AUXILIARY BUILDING FLOOR PLAN

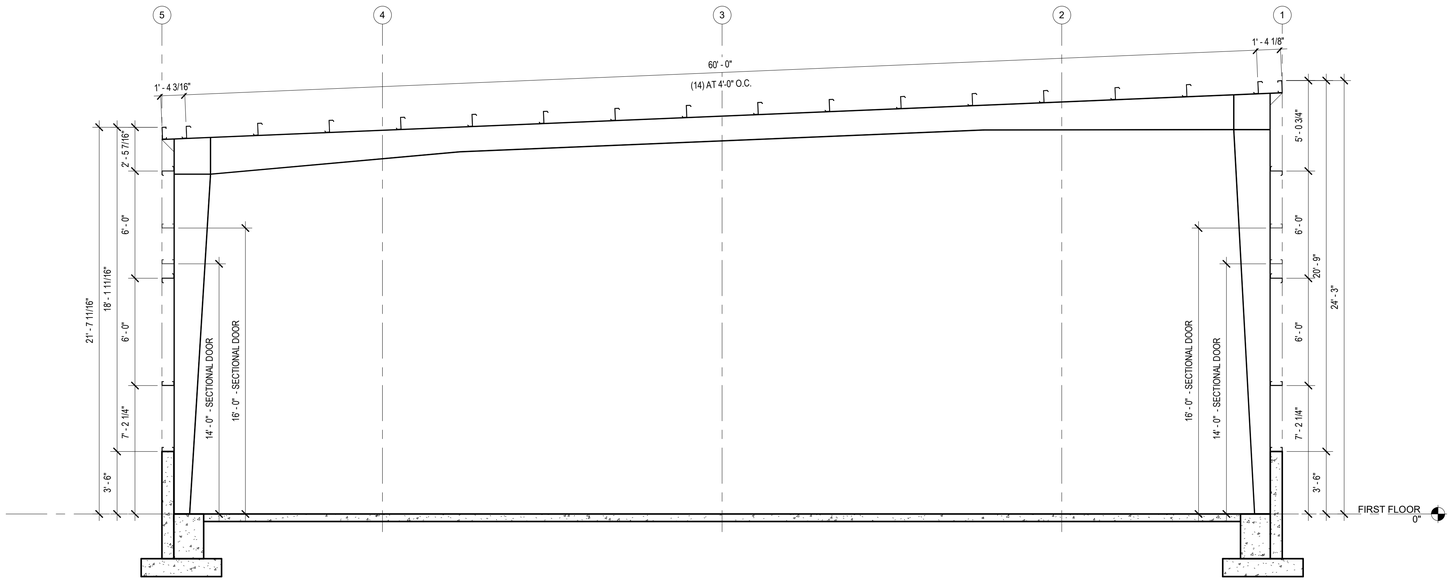
AB A-101

GENERAL SECTION NOTES

1. FOOTING SIZES ARE FOR REFERENCE ONLY.



2 AB A-301 BUILDING SECTION - WARM VEHICLE STORAGE
1/4" = 1'-0"



1 AB A-301 BUIDLING SECTION - STRUCTURE
1/4" = 1'-0"

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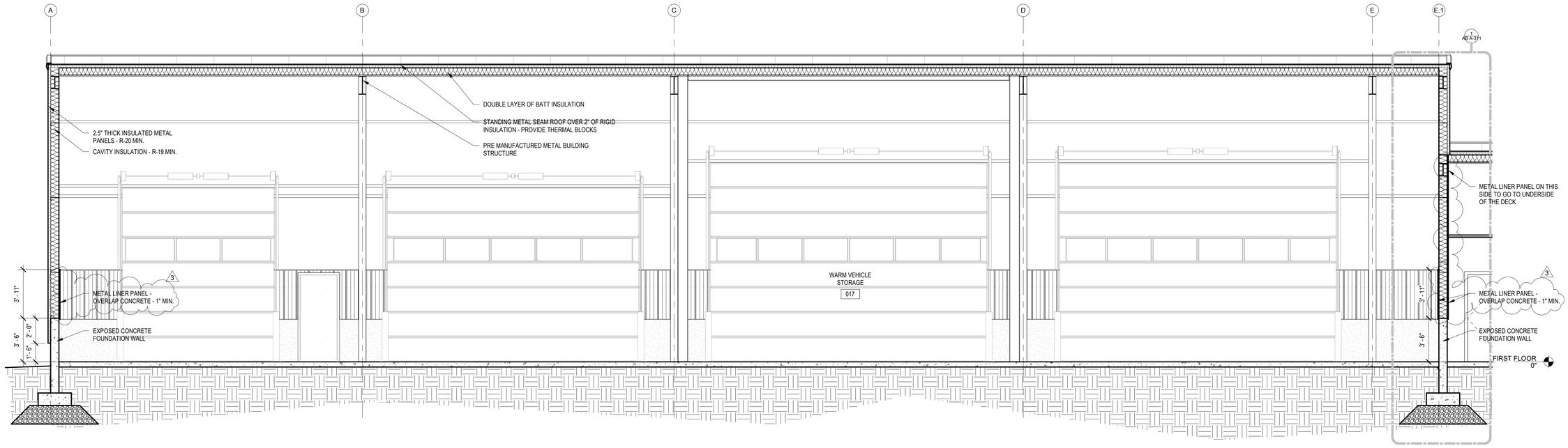
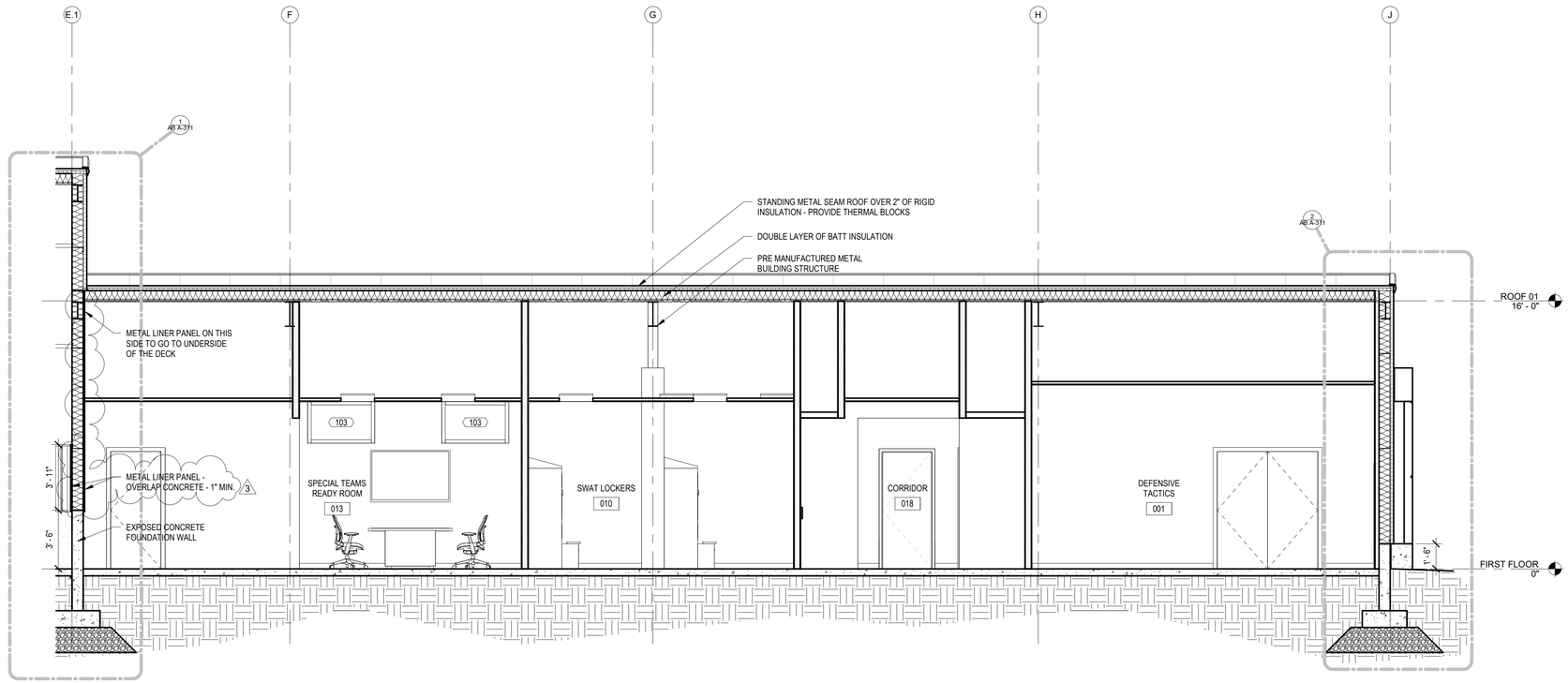
BUILDING SECTIONS

AB A-301



2 AB A-303 BUILDING SECTION -
1/4" = 1'-0"



1 AB A-303 BUILDING SECTION
1/4" = 1'-0"

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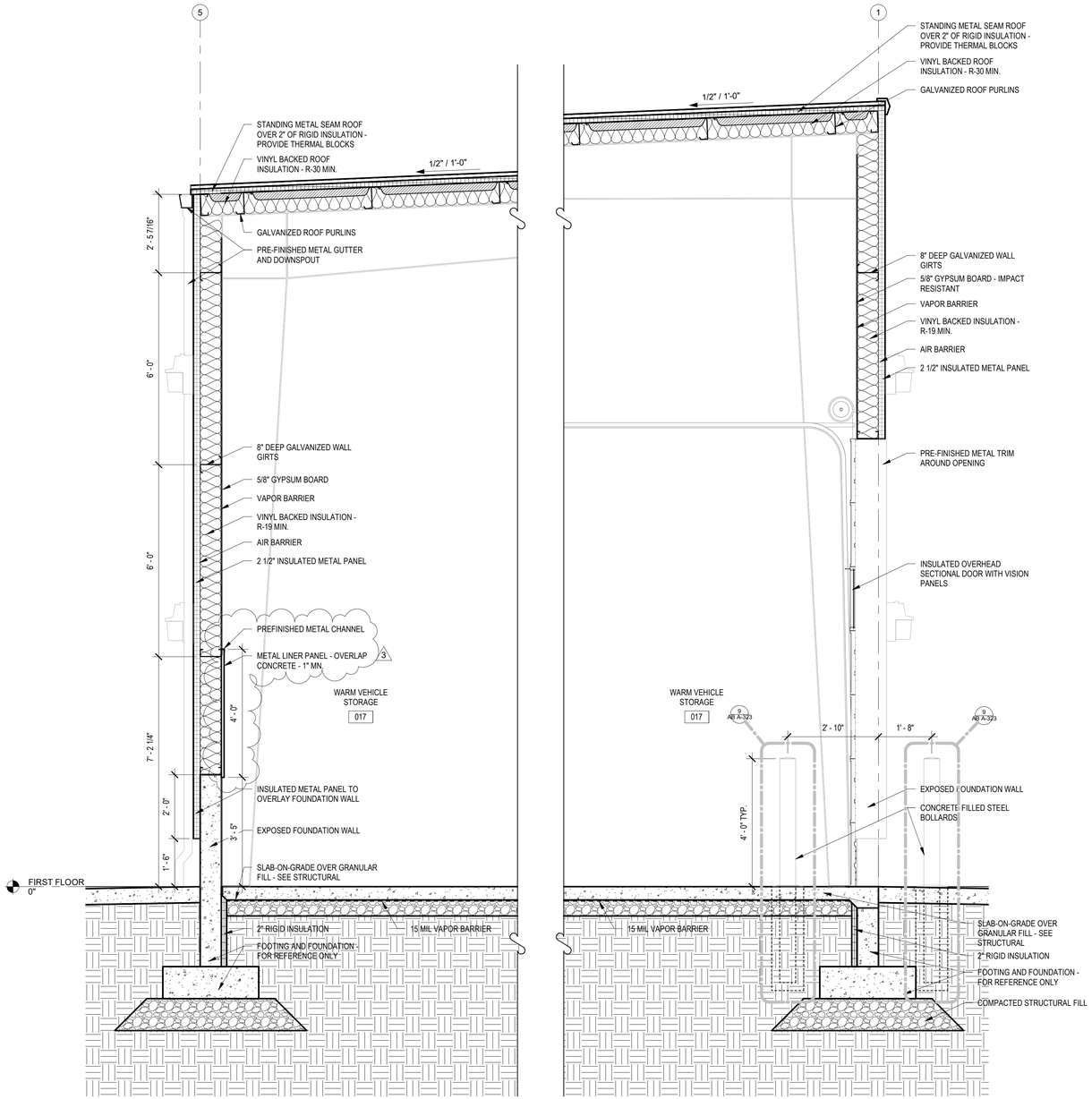
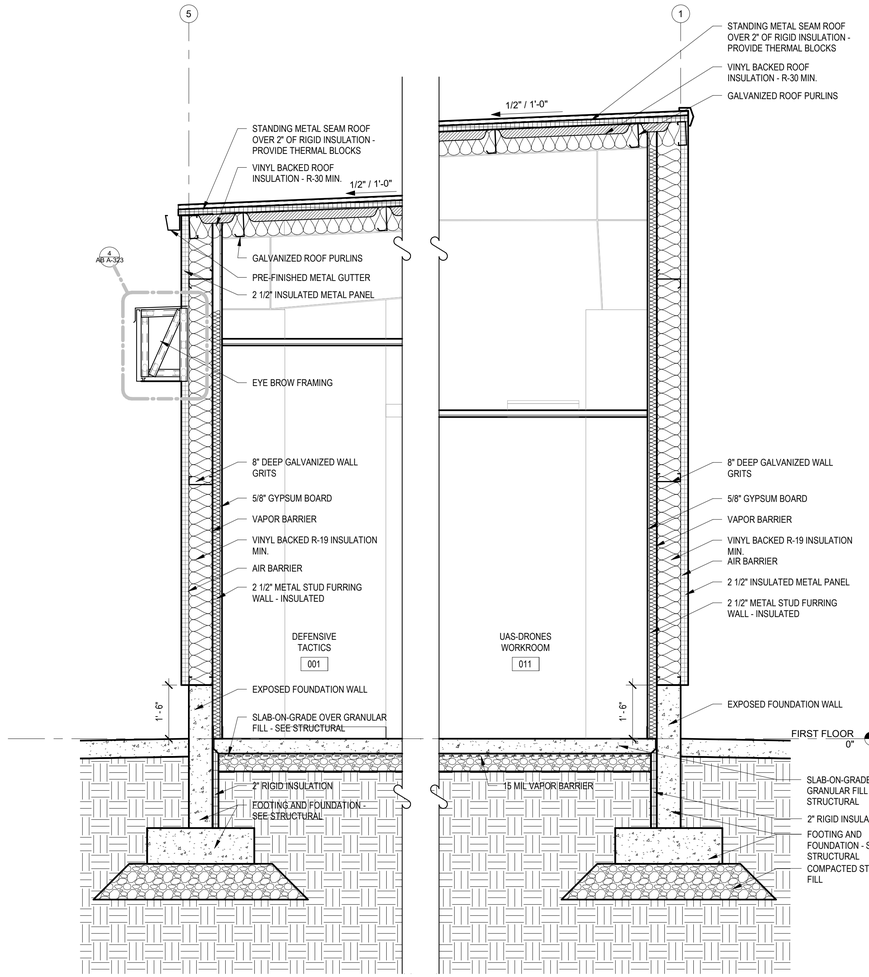
BUILDING SECTIONS

AB A-303



2 AB A-310 WALL SECTION - TALL
1/2" = 1'-0"



1 AB A-310 WALL SECTION - SHORT
1/2" = 1'-0"

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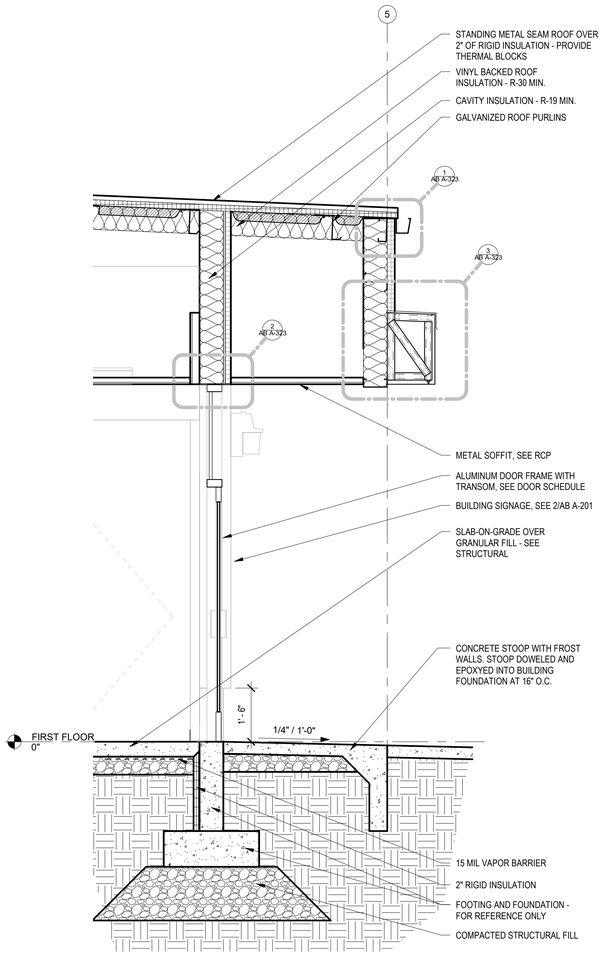
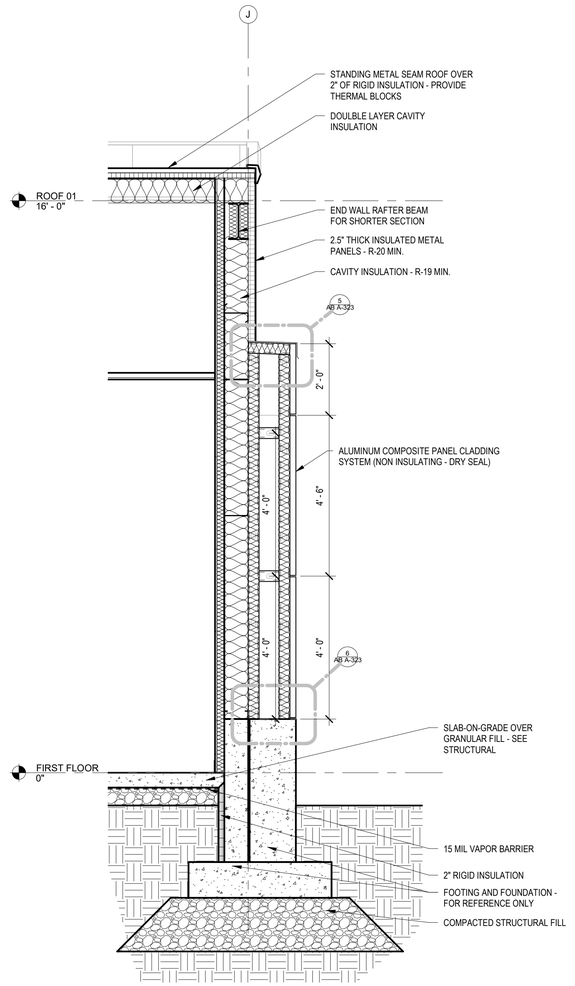
WALL SECTIONS

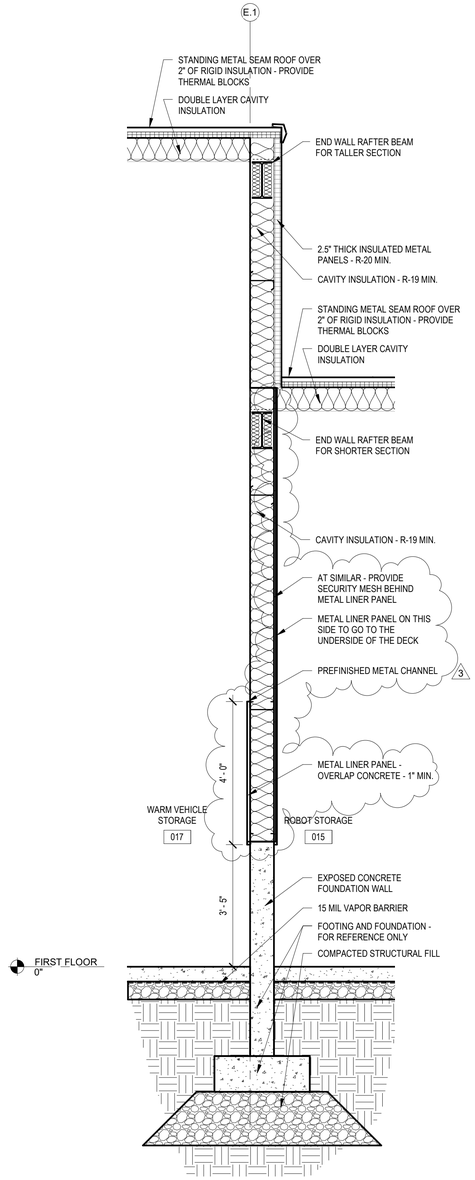
AB A-310



3 AB A-311 WALL SECTION
1/2" = 1'-0"



2 AB A-311 WALL SECTION
1/2" = 1'-0"



1 AB A-311 WALL SECTION - DIVIDING WALL
1/2" = 1'-0"

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Checked by: Checker

WALL SECTIONS

AB A-311