

Date: September 15, 2011

RE: City of Duluth Bid #11-4403
(New Passenger Terminal Bid Package 2B)

Addendum No. 2

TO: Prospective Bidders

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated August 23, 2011. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

1.0 PROJECT MANUAL

1.1 Technical Specifications:

Section 06422 – Flush Wood Paneling:

- Article 2.8: Revise Paragraph C to read: “Finish: Natural finish with clear coat to match Architect’s Control Sample.”

Section 08801 – Interior Glazing:

- Article 1.2: Delete Paragraph C.
- Article 2.2, Paragraph A: Add Sub-paragraph 9: “Vivid Glass, a Forms+Surfaces Company.

Section 10262 – Wall Protection:

- Article 1.2: Revise Paragraph B to read: “Full and partial height stainless steel corner guards.”
- Article 2.3: Add Paragraph D: “Partial height corner guards to be 3’6” high.”

Section 12493 – Blackout Shades:

- Two versions of this section were bound into the Issue for Bid Project Manual. The correct version is attached to this Addendum.

Section 13700

- Paragraph 1.8H3- Revise to read: Card reader controlled access points shall be provided with a door status sensor as indicated on the drawings to detect authorized and un-authorized openings.
- Paragraph 2.3A2- Delete item 2.3A2a.

Section 16415 – Transfer Switches:

- New section to be inserted in its entirety.

2.0 DRAWINGS

Replace drawings listed below with sheets included with this Addendum No. 1

2.1 Volume 2 of 3 – Architectural

- Sheet A001: Added abbreviations for corner guards.
- Sheet A102: Deleted south canopy.
- Sheet A110: Added corner guards. Revised description of railings beneath escalators.
- Sheet A111: Added corner guards. Revised description of railings beneath escalators.
- Sheet A112: Added corner guards.
- Sheet A113: Added corner guards.
- Sheet A114: Added corner guards.
- Sheet A115: Added corner guards.
- Sheet A210: Relocated target for legibility purposes.
- Sheet A211: Added dimensions for gypsum board ceilings.
- Sheet A212: Clarified ceilings in closets. Corrected typographical errors.
- Sheet A214: Added dimensions for gypsum board ceilings. Added ceilings in movable partition pockets.
- Sheet A215: Added dimensions for gypsum board ceilings.
- Sheet A401: Revised gypsum board ceiling in Detail 1.
- Sheet A510: Revised corner guards in Detail 8.
- Sheet A522: Added dimensions at guardrail in Detail 9.
- Sheet A540: Added dimensions at guardrail in Detail 10.
- Sheet A541: Added detail for guardrail.
- Sheet A542: Revised column cover in Detail 3.
- Sheet A611: Clarified toilet accessory designations.
- Sheet A612: Clarified toilet accessory designations.
- Sheet A622: Added notes to Details 10, 11 & 12.

2.2 Volume 3 of 3 – Mechanical, Electrical, Plumbing, Fire Protection

Sheet ET503: Added information regarding Type 2 Access Points.

Sheet ET504: Added hardware to schedule.

3.0 OTHER:

3.1 Work Scope 12.22B – Gate Seating:

Provide four (4) seats in addition to quantity depicted on Furniture Plan Sheets A815 and A816.

END OF ADDENDUM NO. 2

**NEW PASSENGER TERMINAL
DULUTH INTERNATIONAL AIRPORT
DULUTH, MN**

**SECTION 12493 -
BLACKOUT SHADES**

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: Manually operated, roll-up, fabric opaque window shade system for complete blackout of window opening including side and bottom channels, headbox, opacity plates, manual operator, and mounting hardware.

1.3 SUBMITTALS

- A. Submit in accordance with Section 01300 - Submittals:
 - 1. List of proposed products and product data.
 - 2. Shop drawings showing window openings, dimensions, and attachment method.
 - a. Curved or sloped ceiling conditions: Include details for additional supports as necessary for mounting of shade brackets and hardware at sloped windows and/or curved ceiling condition.
 - 3. Samples for selection by Architect:
 - a. Fabrics.
 - b. Metal finishes.
 - 4. Window Shade Schedule listing rooms, field verified window dimensions, quantities, type of shade, fabric, and color.
 - 5. Manufacturer's installation and maintenance instructions.

1.4 SUSTAINABLE DESIGN SUBMITTALS

- A. Section 01361 - Sustainable Design Requirements: Requirements for sustainable design submittals.
- B. Manufacturer's Certificate: Certify products meet or exceed specified sustainable design requirements.
 - 1. Materials Resources Certificates:
 - a. Certify recycled material content for recycled content products.
 - b. Certify source for local and regional materials and distance from Project site.
 - 2. Indoor Air Quality Certificates:
 - a. Certify volatile organic compound content for each interior adhesive and sealant and related primer.

- C. Product Cost Data: Submit cost of products to verify compliance with Project sustainable design requirements. Exclude cost of labor and equipment to install products.
 - 1. Provide cost data for the following products:
 - a. Products with recycled material content.
 - b. Local and regional products.

1.5 QUALITY ASSURANCE

- A. Manufacturer: Company specializing in manufacturing the products specified in this Section with three years documented experience.

1.6 EXTRA MATERIALS

- A. Section 01700 – Contract Closeout: Spare parts and maintenance products.
- B. Supply five percent (5%) of each size, color, and surface finish specified.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Do not deliver window shades until building is enclosed and construction within spaces where shades will be installed is substantially complete.
- B. Deliver products in manufacturer's original, unopened, undamaged containers with labels intact.
- C. Label containers and shades according to Window Shade Schedule.

1.8 WARRANTY

- A. Provide under provisions of Section 01700 - Contract Closeout: 5 years warranty against defects in materials and workmanship for clutch operating mechanism.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Available Manufactures: Subject to compliance with requirements, manufactures offering products that may be incorporated into the Work include, but are not limited to the following:
- B. Approved Manufacturers:
 - 1. MechoShade
 - 2. Draper
 - 3. Lutron

- C. Substitutions: Under provisions of Section 01631.
- D. Size: Refer to Drawings for size and locations.

2.2 OPAQUE WINDOW SHADE SYSTEM

- A. Type: Bead chain and clutch operated, roll-up, fabric, opaque window shade system; LightBloc FlexShade System as manufactured by Draper, Inc.
- B. Specialty sloped shades: Include side guide wires with roller tube (idler rollers) as required to map the movement of shades and precisely follow the window orientation on sloped windows. Refer to drawings for locations and slope angle.
- C. Method of installation: Mounted inside of window opening and extending from head to sill and jamb to jamb.
- D. Operation: Bead chain and clutch operating mechanism allowing shade to stop when chain is released. Designed never to need adjustment or lubrication. Provide preset limit stops to prevent shade from being raised or lowered too far.
 - 1. Clutch mechanism: Fabricated from high carbon steel and molded fiberglass reinforced polyester.
 - 2. Control loop: Stainless steel bead chain hanging at side of window.
 - 3. Chain location: Right hand side when facing window from interior.
- E. Roller: Fabricated from extruded aluminum or steel. Diameter, wall thickness, and material selected by manufacturer to accommodate shade size. Provide with roller idler assembly of molded nylon and zinc-plated steel pin. Sliding pin to allow easy installation and removal of roller.
- F. Headbox: Fabrication from 0.06 inch thick extruded aluminum sections with endcaps and opacity plates.
 - 1. Size: 4-1/8 inches high by 3-1/2 inches wide by length required for shade being provided.
 - 2. L-shaped removable front face and bottom cover and L-shaped back and top.
- G. Endcaps: Stamped steel with universal design suitable for mounting to ceiling, wall, and jamb. Provide size compatible with roller size and fasteners appropriate for installation conditions.
- H. Side Channels: Double chamber fabricated from 0.06 inch thick extruded aluminum sections. One chamber accepts fabric and contains groove for fabric retainer. Other chamber accepts fabric guide and channel locator.
- I. Sill channel: 0.06 inch thick extruded aluminum channel to receive slat bar and prevent light leakage.
- J. Slat bar: Extruded aluminum bar attached to bottom of shade. Bar does not retract into headbox.

- K. Channel locator: Injected molded nylon insert to align side and sill channels with headbox.
- L. Fabric guide: Plated steel transition for fabric rolling into side channel.
- M. Fabric retainer: System designed to prevent disengagement of fabric from side channels due to normal variations of air pressure caused by doors opening, HVAC systems, and temperature differences between room and window well. System consists of horizontal steel stays installed in shade, covered with fabric, and spaced at regular intervals. Grommets installed through stays are held within groove of side channel chamber.
- N. Opacity plates: Steel plates with rubber O rings installed on endcaps to eliminate light leakage.
- O. Exposed aluminum finish: White baked enamel paint.

2.3 FABRIC

- A. Material: Close woven fiberglass base textile with sun-resistant vinyl film bonded to each side, opaque with minimum tensile strength of 190 pounds for warp and 180 pounds for fill; SunBloc Series SB9000 as provided by Draper, Inc.
- B. Color and pattern: As selected by Architect from manufacturer's standard range.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Field verify window dimensions prior to fabrication.
- B. Coordinate requirements for blocking and structural supports to ensure adequate means for installation of window shades.

3.2 INSTALLATION

- A. Install window shades at locations indicated on Drawings and approved Window Shade Schedule.
- B. Comply with shade manufacturer's written instructions.
- C. Install headbox, side channels, and sill channel with sealant specified in Section 07920 - Joint Sealers to eliminate light leaks at perimeter of shade system.
- D. Position shades level, plumb, and at proper height relative to adjacent construction. Secure with fasteners recommended by manufacturer.

3.3 PROTECTING

- A. Clean shade assemblies and protect from damage from construction operations. If damage occurs, remove and replace damaged components or entire unit as required to provide units in their original, undamaged condition.

3.4 SCHEDULE

- A. Refer to Room Finish Schedule for a listing of rooms requiring work of this section.

END OF SECTION 12493

**NEW PASSENGER TERMINAL
DULUTH INTERNATIONAL AIRPORT
DULUTH, MINNESOTA**

SECTION 16415 - TRANSFER SWITCHES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes transfer switches rated 600 V and less and the following items:
 - 1. Automatic transfer switches.
- B. Related Sections include the following:
 - 1. Division 15 Section "Electric-Drive, Horizontal Fire Pumps" for automatic transfer switches furnished with fire pumps.

1.3 SUBMITTALS

- A. Product Data: Include dimensioned plans, sections, and elevations showing minimum clearances, conductor entry provisions, gutter space, installed features and devices, and materials lists.
- B. Wiring Diagrams: Details of wiring for transfer switches and differentiating between manufacturer-installed and field-installed wiring. Show both power and control wiring.
- C. Product Certificates: Signed by manufacturer certifying that products furnished comply with requirements and that switches have been tested for short-circuit closing and withstand ratings applicable to units for Project.
- D. Field Test Reports: Indicate and interpret test results for compliance with performance requirements.
- E. Maintenance Data: For each type of product to include in the maintenance manuals specified in Division 1. Include all features and operating sequences, both automatic and manual. List all factory settings of relays and provide relay-setting and calibration instructions.

1.4 QUALITY ASSURANCE

- A. Testing Agency Qualifications: Testing agency meets OSHA criteria for accreditation of testing laboratories, Title 29, Part 1907, or is a full member company of the InterNational Electrical Testing Association.
 - 1. Testing Agency's Field Supervisor: Person currently certified by the InterNational Electrical Testing Association or National Institute for Certification in Engineering Technologies, to supervise on-site testing specified in Part 3.
- B. Emergency Service: Manufacturer maintains a service center capable of providing emergency maintenance and repairs at Project site with an 8-hour maximum response time.
- C. Source Limitations: Obtain automatic transfer switches from a single manufacturer who assumes responsibility for all components.
- D. Listing and Labeling: Provide transfer switches specified in this Section that are listed and labeled for emergency service under UL 1008.
 - 1. The Terms "Listed" and "Labeled": As defined in the National Electrical Code, Article 100.
- E. Comply with NFPA 70, as amended by state and local codes.
- F. Comply with NFPA 110.
- G. Comply with NEMA ICS 1.
- H. Compy with IEC 947-6-1, IEEE 446, NEMA ICS 10-1993 and UL 508.
- I. UL Compliance: Comply with UL 1008, "Automatic Transfer Switches," unless requirements of these Specifications are stricter.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. ASCO 7000 series
 - 2. GE ZTS
 - 3. Eaton/C-H

2.2 GENERAL TRANSFER-SWITCH PRODUCT REQUIREMENTS

- A. Indicated Current Ratings: Apply as defined in UL 1008 for continuous loading and total system transfer, including tungsten filament loads not exceeding 30 percent of switch ampere rating, unless otherwise noted.

1. Tested Fault-Current Closing and Withstand Ratings: Adequate for duty imposed by protective devices at installation locations in Project under the fault conditions indicated based on testing according to UL 1008.
- B. Where Transfer Switch Includes Internal Protection: Rating of switch and trip unit combination exceeds indicated fault-current value at installation location.
- C. Annunciation and Control Interface Components: Devices at transfer switches for communicating with remote annunciators or annunciator and control panels have communications capability matched with the remote device.
- D. Solid-State Controls: Repetitive accuracy of all settings is plus or minus 2 percent or better over an operating temperature range of minus 20 degrees C to 70 degrees C.
- E. Resistance to Damage by Voltage Transients: Components meet or exceed voltage-surge withstand capability requirements when tested according to ANSI C37.90.1. Components meet or exceed voltage-impulse withstand test of NEMA ICS 1.
- F. Neutral Pole: Switch is of the 3-pole type when interposed in a 3-wire feeder, and of the 4-pole type when interposed in a 4-wire feeder, regardless of any other indication to the contrary. Neutral pole is switched simultaneously with phase poles.
- G. Neutral Terminal: Ampacity and switch rating of neutral path is equal to the rating of the switch, unless otherwise indicated.
- H. Oversize Neutral: Ampacity and switch rating of neutral path through units indicated for installation in feeder with oversize neutral is double the nominal rating of the circuit in which the switch is installed.
- I. Enclosures: General-purpose NEMA 250, Type 1, complying with NEMA ICS 6; UL 508, unless otherwise indicated.
- J. Factory Wiring: Train and bundle factory wiring and label consistent with Shop Drawings, either by color code or by numbered or lettered wire and cable tape markers at terminations.
 1. Designated Terminals: Pressure type suitable for types and sizes of field wiring indicated.
 2. Power-Terminal Arrangement and Field-Wiring Space: Suitable for top, side, or bottom entrance of feeder conductors as indicated.
 3. Control Wiring: Equipped with lugs suitable for connection to terminal strips.
- K. Electrical Operation: Accomplish by a nonfused, momentarily energized solenoid or electric motor-operated mechanism, mechanically and electrically interlocked in both directions.
- L. Switch Characteristics: Designed for continuous-duty repetitive transfer of full-rated current between active power sources.

1. Limitation: Switches using molded-case switch or insulated-case circuit-breaker components and switches using contactors not designed for continuous-duty repetitive switching between active power sources are not acceptable.
2. Switch Action: Double throw; mechanically held in both directions.
3. Switch Contacts: Silver composition for load current switching. Conventional automatic transfer-switch units rated 225 A and greater have separate arcing contacts.

2.3 AUTOMATIC TRANSFER SWITCH

- A. Comply with Level 1 equipment according to NFPA 110.
- B. Switching Arrangement: Double-throw type, incapable of pauses or intermediate position stops during normal functioning, unless otherwise indicated.
- C. Manual Switch Operation: Manually operated under load, with the door closed, and with either or both sources energized. Transfer time is the same as for electrical operation. Control circuit automatically disconnects from electrical operator during manual operation.
- D. Signal-before-Transfer and Retransfer Contacts: A set of normally open/normally closed dry contacts operates in advance of retransfer to normal source and a second set which operates in advance of transfer to the emergency source. Interval is adjustable from 1 to 30 seconds.
- E. Automatic Transfer Switches for Large-Motor Loads: Where supplying elevators or other individual motors 20 HP and larger, operator has a programmed neutral position arranged to provide a midpoint between the 2 working switch positions, with an intentional, time-controlled pause at the midpoint during transfer. The pause is adjustable from 0.5 to 30 seconds minimum and factory set at 0.5 second, unless otherwise indicated. Time delay occurs for both transfer directions. In lieu thereof include factory-wired, internal, in-phase monitor relay. The relay controls transfer to occur when the 2 sources are synchronized in phase. The relay compares phase relationship and frequency difference between the normal and emergency sources and initiates transfer when both sources are within 15 electrical degrees, and only if transfer can be completed within 60 electrical degrees. In-phase transfer is initiated only if both sources are within 2 Hz of nominal frequency and 70 percent or more of nominal voltage.

2.4 AUTOMATIC TRANSFER-SWITCH FEATURES

- A. Voltage sensing for each phase of normal source. Pickup voltage is adjustable from 85 to 100 percent of nominal, and dropout voltage is adjustable from 75 to 98 percent of pickup value. Factory set for pickup at 90 percent and dropout at 85 percent.
- B. Time delay for override of normal-source voltage sensing delays transfer and engine start signals. Adjustable 0 to 6 seconds and factory set at 1 second.

- C. Voltage/Frequency Lockout Relay: Prevents premature transfer to an emergency generator set. Pickup voltage is adjustable from 85 to 100 percent of nominal. Factory set to pickup at 90 percent. Pickup frequency is adjustable from 90 to 100 percent of nominal. Factory set to pickup at 95 percent.
- D. Time Delay for Retransfer to Normal Source: Adjustable from 0 to 30 minutes and factory set at 10 minutes. Provides automatic defeat of the delay on loss of voltage or sustained undervoltage of the emergency source, provided normal supply has been restored.
- E. Test Switch: Simulates normal-source failure.
- F. Switch-Position Pilot Lights: Indicate source to which load is connected.
- G. Source-Available Indicating Lights: Supervise sources via the transfer-switch, normal- and emergency-source sensing circuits.
 - 1. Normal Power Supervision: Green light with nameplate engraved "Normal Source Available."
 - 2. Emergency Power Supervision: Red light with nameplate engraved "Emergency Source Available."
- H. Unassigned Auxiliary Contacts: 4 normally open single-pole, double-throw contacts for each switch position, rated 10 A at 240 V, ac.
- I. Transfer Override Switch: Overrides automatic retransfer control so automatic transfer switch will remain connected to emergency power source regardless of the condition of the normal source. A pilot light indicates override status.
- J. Engine Starting Contacts: 1 isolated, normally closed and 1 isolated, normally open. Contacts are gold flashed or gold plated and rated 10 A at 32 V, dc minimum.
- K. Engine Shutdown Contacts: Time delay adjustable from 0 to 25 minutes; factory set at 5 minutes. Initiates shutdown at remote engine-generator controls after retransfer of load to normal source.
- L. Digital Communication Interface: Mod-bus system interface for all control and monitoring functions.

2.5 FINISHES

- A. Enclosures: Manufacturer's standard enamel over corrosion-resistant pretreatment and primer.

2.6 SOURCE QUALITY CONTROL

- A. Factory Test Components, Assembled Switches, and Associated Equipment: Ensure proper operation. Check transfer time and voltage, frequency, and time-delay settings for compliance with specified requirements. Perform dielectric strength test complying with NEMA ICS 1.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Floor Mounting of Switches: Level and anchor unit to floor.
- B. Identify components according to Division 16 Section "Electrical Identification."

3.2 WIRING TO REMOTE COMPONENTS

- A. For automatic transfer switch(es) include 4 #14 THWN control circuit run in conduit from switch(es) to emergency generator starting and shutdown devices at engine generator control gear. Connect as required.
- B. For automatic transfer switch(es) include 2 #14 voltage sensing circuit run in conduit from switch(es) to Building Management System panel to sense "emergency power." Terminate in outlet box with slack conductors (for extension by others) at panel. Connect to voltage sensing contact at ATS.
- C. Circuitry extensions from transfer switches as described above include extensions from automatic transfer switches furnished by others as part of fire pump controllers.
- D. For automatic transfer switch (es) supplying elevators, include 6 #14 control circuit run in conduit from elevator interface contacts in switch(es) to associated elevator machine room. Terminate in outlet box with slack conductors (for extension by others) adjacent to elevator group controller. Include also 2 #14 run to each hydraulic elevator not supplied through an automatic transfer switch.

3.3 CONNECTIONS

- A. Ground equipment as indicated and required by National Electrical Code.
 - 1. Tighten electrical connectors and terminals according to manufacturer's published torque-tightening values. Where manufacturer's torque values are not indicated, use those specified in UL 486A and UL 486B.

3.4 FIELD QUALITY CONTROL

- A. Testing: Test transfer-switch products by operating them in all modes. Perform tests recommended by manufacturer under the supervision of manufacturer's factory-authorized service representative. Correct deficiencies and report results in writing. Record adjustable relay settings.
- B. Ground-Fault Tests: Coordinate with testing of ground-fault protective devices for power delivery from both sources.

1. Assist in verifying grounding connections and locations and ratings of sensors.
 2. Assist in observing reaction of circuit-interrupting devices when simulated fault current is applied at sensors.
- C. Coordinate tests with tests of generator plant and run them concurrently.
- D. Report results of tests and inspections in writing. Record adjustable relay settings and measured insulation and contact resistances and time delays. Attach a label or tag to each tested component indicating satisfactory completion of tests.

3.5 CLEANING

- A. After completing equipment installation, inspect unit components. Remove paint splatters and other spots, dirt, and debris. Repair damaged finish to match original finish.
- B. Clean equipment internally, on completion of installation, according to manufacturer's written instructions.

3.6 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's personnel to adjust, operate, and maintain transfer switches and related equipment as specified below:
1. Coordinate this training with that for generator equipment.
 2. Train Owner's maintenance personnel on procedures and schedules for starting and stopping, troubleshooting, servicing, and maintaining equipment.
 3. Schedule training with Owner, through Architect, with at least seven days' advance notice.
 4. Provide a minimum of four hours of instruction.

END OF SECTION 16415

ABBREVIATIONS

A.F.F. A.C.T. ADJ. A.E.S.S. A.H.U. ALT. ALUM. APPROX. ARCH. ASPH. AUTO.	ABOVE FINISHED FLOOR ACOUSTIC CEILING TILE ADJACENT ARCH. EXPOSED STL. STRUCT. AIR HANDLER UNIT ALTERNATE ALUMINUM APPROXIMATE ARCHITECTURAL ASPHALT AUTOMATIC	EA. ELEC. E.W.C. EL. ENCL. EQ. EQUIP. EXIST. EXP. JT. EXP. EXT.	EACH ELECTRICAL ELECTRICAL WATER COOLER ELEVATION ENCLOSURE EQUAL EQUIPMENT EXISTING EXPANSION JOINT EXPOSED EXTERIOR	LAM. LAV. L.F. L. PT.	LAMINATED LAVATORY LINEAR FEET LOW POINT	M.O. MATL. MAX. MECH. M.H. MTL. MIN. MISC. MULL. M.U.F.I.D.	MASONRY OPENING MATERIAL MAXIMUM MECHANICAL MAN HOLE METAL MINIMUM MISCELLANEOUS MULLION MULTIPLE USE FLIGHT INFORMATION DISPLAY	R. RECT. REINF. REQD. REV. R.H. R.D. RM.	RADIUS RECTANGULAR REINFORCEMENT REQUIRED REVISION RIGHT HAND ROOF DRAIN ROOM
BM. B.M. BLKG. BD. BOT. BLDG.	BEAM BENCH MARK BLOCKING BOARD BOTTOM BUILDING	FIN. FT. F.E.C.	FEET FINISH FIRE EXTINGUISHER CABINET	F.I.E. F.H.C. F.H.R. FXT. F.I.D. FL. F.D. FLUOR. FR.	FIRE EXTINGUISHER FIRE HOSE CABINET FIRE HOSE RACK FIXTURE FLIGHT INFORMATION DISPLAY FLOOR FLOOR DRAIN FLUORESCENT FRAME	NOM. N.I.C. N.T.S. NO.	NOMINAL NOT IN CONTRACT NOT TO SCALE NUMBER	SC. SCHED. SECT. SHT. SIM. SQ. FT. S.S. STD. STA. STL. STRUCT. SUSP. SYM.	SCALE SCHEDULE SECTION SHEET SIMILAR SQUARE FEET STAINLESS STEEL STANDARD STATION STEEL STRUCTURAL SUSPENDED SYMBOL
C.F.M.F. C.R. CPT. CLG. CL or C.L. C.T. CL. CTR. C.O. COL. COMP. CONC. CONC. BLK. CMU CONN. CONT. C.J. C.B. CG-F CG-P C.W.	COLD-FORMED METAL FRAMING CARD READER CARPET CEILING CENTERLINE CERAMIC TILE CLEAR CENTER CLEAN OUT COLUMN COMPRESSIBLE CONCRETE CONCRETE BLOCK CONCRETE MASONRY UNIT CONNECTION CONTINUOUS CONTROL JOINT CORNER CORNER GUARD-FULL HEIGHT CORNER GUARD-PARTIAL HEIGHT CURTAINWALL	F.E. F.H.C. F.H.R. FXT. F.I.D. FL. F.D. FLUOR. FR. GA. GALV. GYP.BD.	FIRE EXTINGUISHER FIRE HOSE CABINET FIRE HOSE RACK FIXTURE FLIGHT INFORMATION DISPLAY FLOOR FLOOR DRAIN FLUORESCENT FRAME GAUGE GALVANIZED GYPSUM BOARD	HBS HDW. HD. H.P. H.P.C. HT. H.M. HORIZ.	HANDLING BAGGAGE SYSTEM HARDWARE HEAD HIGH POINT HIGH PERFORMANCE COATING HEIGHT HOLLOW METAL HORIZONTAL	PR. P.J. PLAS. PL. PLMBG. PLYWD. P.V.C. PT. LBS. PSI. P.T. PRPTY.	PAIR PANEL JOINT PLASTER PLATE PLUMBING PLYWOOD POLYVINYLCHLORIDE POINT POUNDS POUNDS PER SQUARE INCH PRESSURE TREATED PROPERTY	TEL. THK. TSA TYP.	TELEPHONE THICKNESS TRANSPORTATION SECURITY ADMINISTRATION TYPICAL
DEG. DET. DIA. DIM. DIST. DIV. DR. DN. DWG. D.F.	DEGREE DETAIL DIAMETER DIMENSION DISTANCE DIVIDER DOOR DOWN DRAWING DRINKING FOUNTAIN	I.D. IN. INSUL. INT. JAN. JT.	INCHES INSIDE DIAMETER INSULATION INTERIOR JANITOR JOINT	QTY. Q.T.	QUANTITY QUARRY TILE	W.C. WT. W.W.F. WD. W.P.	WATER CLOSET WEIGHT WELDED WIRE FABRIC WOOD WORKING POINT	XA	EXIT SIGN

PROJECT GENERAL NOTES:

- ALL WORK SHALL CONFORM TO ALL APPLICABLE CODES, STANDARDS AND GOVERNING AUTHORITIES.
- REFER TO CIVIL, ARCHITECTURAL, MECHANICAL, PLUMBING, STRUCTURAL AND ELECTRICAL DRAWINGS FOR COORDINATION OF WORK.
- EACH TRADE CONTRACTOR SHALL VISIT THE SITE AND BECOME KNOWLEDGEABLE OF CONDITIONS THEREIN. EACH TRADE CONTRACTOR SHALL INVESTIGATE, VERIFY AND BE RESPONSIBLE FOR ALL THE REQUIREMENTS OF THE PROJECT AND SHALL NOTIFY THE ARCHITECT AND OWNER OF ANY CONDITIONS REQUIRING INFORMATION BEFORE PROCEEDING WITH THE WORK. EXISTING BUILDING DRAWINGS ARE AVAILABLE FROM THE OWNER FOR REVIEW. THE DOCUMENTS AVAILABLE MAY NOT BE REPRESENTATIVE OF ALL AS-BUILT CONDITIONS
- THE TRADE CONTRACTORS SHALL PROTECT ALL EXISTING SITE ELEMENTS FROM DAMAGE DUE TO ALTERATION AND CONSTRUCTION OPERATIONS AND REPAIR OR REPLACE ELEMENTS DAMAGED DURING THE PROJECT.
- ANY UTILITY SHUT-OFFS AS REQUIRED BY THE CONTRACTOR FOR COMPLETION OF THE WORK SUCH AS ELECTRICAL, WATER, SEWER, TELEPHONE, GAS ETC. MUST BE SCHEDULED WITH THE OWNER 72 HOURS PRIOR TO COMMENCING THE WORK. ALL WORK TO BE DONE IN OFF HOURS OR AT LOW-USE HOURS AS APPROVED BY THE OWNER.
- DRAWINGS ARE TO BE ISSUED TO THE SUBCONTRACTORS IN COMPLETE SETS SO THAT THE EXTENT AND COORDINATION OF THE WORK IS MADE POSSIBLE.
- DETAILS SHOWN ARE INTENDED TO BE INDICATIVE OF THE PROFILES AND TYPE OF DETAILING REQUIRED FOR THE WORK. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE DETAILED.
- WHERE SPECIFIC DIMENSIONS, DETAILS AND DESIGN INTENT CANNOT BE DETERMINED, NOTIFY THE ARCHITECT IN WRITING BEFORE PROCEEDING WITH ANY WORK IN QUESTION.
- DIMENSIONS SHALL GOVERN. DO NOT SCALE DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES, OMISSIONS AND/OR CONFLICTS BEFORE PROCEEDING WITH THE WORK.
- ALL DIMENSIONS SHALL BE VERIFIED ON THE SITE BEFORE PROCEEDING WITH THE WORK. NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES.
- UNLESS NOTED OTHERWISE, ALL WALLS AND PARTITIONS ARE DIMENSIONED TO THE FINISH FACE OF THE METAL FRAMING OR FACE OF C.M.U.
- UNLESS NOTED OTHERWISE, ALL FASTENERS AND FASTENING DEVICES ARE TO BE CONCEALED IN ALL FINISHED SPACES.
- ANY PIPING, DUCTS, CONDUITS, ETC. THAT PENETRATE FIRE-RATED WALLS SHALL BE INSTALLED IN A MANNER THAT WILL PRESERVE THE FIRE INTEGRITY OF THE FLOOR OR WALL. FIRE STOP RATINGS OF WALLS WHERE PENETRATIONS OCCUR, PROVIDE FIRE DAMPERS IN DUCTS PENETRATING FIRE-RATED WALLS TO MEET THE APPLICABLE BUILDING CODES. REFER TO ALL DRAWINGS FOR EXTENT AND FIRE RATING REQUIREMENTS. THE FIRE RATING OF THE FIRESTOP MUST BE EQUAL TO OR GREATER TO THE MINIMUM RATING OF THE FLOOR, ROOF OR WALL ASSEMBLY. ALL FIREPROOFING REPLACEMENT OR INSTALLATION TO BE COMPLETED BY CONTRACTOR PERFORMING THE PENETRATION.
- ALL JOINTS OF ANY ELEMENT OF CONSTRUCTION WHICH ARE REQUIRED TO HAVE A FIRE-RESISTANCE RATING SHALL BE INSTALLED PER THE MANUFACTURER'S PUBLISHED TESTED ASSEMBLIES, SHALL BE TIGHT AND SHALL PREVENT THE PASSAGE OF SMOKE AND FLAME.
- WHERE THE FIRE RATING OF WALLS ARE NOTED ON THE DRAWINGS, THE FIRE RATING SHALL APPLY TO THE ENTIRE PERIMETER ENCLOSURE OF THE ROOM OR SPACE FOR THE FULL LENGTH AND HEIGHT OF AREAS BEING SEPARATED, EXTENDING TO THE UNDERSIDE OF THE FLOOR OR ROOF DECK.
- ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER BY GASKETS OR COATINGS OR BOTH TO AVOID GALVANIC CORROSION ACTION.
- ALL FERROUS METAL WORK LOCATED ON THE EXTERIOR OR IN NON CONDITIONED SPACES (INTERIOR) SHALL BE HOT-DIPPED GALVANIZED (MINIMUM G-90 COATING).
- THE EXTENT OF THE WORK SHOWN ON THE PLANS AND DETAILS REFLECTS THE BEST JUDGMENT OF THE ARCHITECT/ENGINEER. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND ADVISE THE ARCHITECT IN WRITING OF ANY SITUATION THAT WOULD NOT ALLOW HIM TO PROCEED ON THE BASIS OF THESE DOCUMENTS.
- THE ARCHITECT/ENGINEER SELECTION OF MATERIALS AND DETAILS DOES NOT RELIEVE THE CONTRACTOR FROM VERIFYING WITH THE MATERIAL SUPPLIERS THAT THE PROPOSED MATERIALS ARE CORRECT AND PROPER FOR THE INTENDED APPLICATION AND USE.
- THE CONTRACTOR SHALL COORDINATE THE FINAL LOCATIONS OF THE POWER/DATA/COMMUNICATION OUTLETS.
- ALL WORK SHALL CONFORM WITH MINNESOTA ACCESSIBILITY CODE AND THE IAC (SECTIONS 400.310(s) AND 400.310(u)).



Reynolds, Smith and Hills, Inc.
4525 Airport Approach Rd, Ste A
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Structural Engineers:
MBJ CONSULTING ENG.
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TEL: (218) 722-1056 / FAX: (218) 722-9306

M/E/P/F/P Engineers:
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TEL: (203) 792-3000 / FAX: (203) 792-4900

Landscaping Consultants:
APPOLD DESIGN
2432 East First Street, Duluth MN 55812
TEL: (218) 591-5079

ARCHITECTURAL CERTIFICATION
I hereby certify that the architectural plans, specifications or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Architect under the laws of the State of Minnesota.

Print Name: Mark Ip

Signature:

Date: 06-03-10 Reg. No.: 46001

REVISIONS

NO.	DESCRIPTION	DATE
	FOUNDATION PERMIT	6.11.10
1,2,3	NOT CHANGED	
	CONFORMANCE SET	7.12.10
	BUILDING PERMIT	8.16.10
	100% REVIEW	12.15.10
	BID PACKAGE 2A	1.24.11
	BP2A CONFORMANCE SET	5.2.11
	BID PACKAGE 2B REVIEW	7.6.11
	BID PACKAGE 2B	8.23.11
4	BP2B ADDENDUM 2	9.15.11

DATE ISSUED: 09-15-11

REVIEWED BY: SBS/TC

DRAWN BY: MKG/MI

DESIGNED BY: SBS/TC

AEP PROJECT NUMBER

213-1882-091

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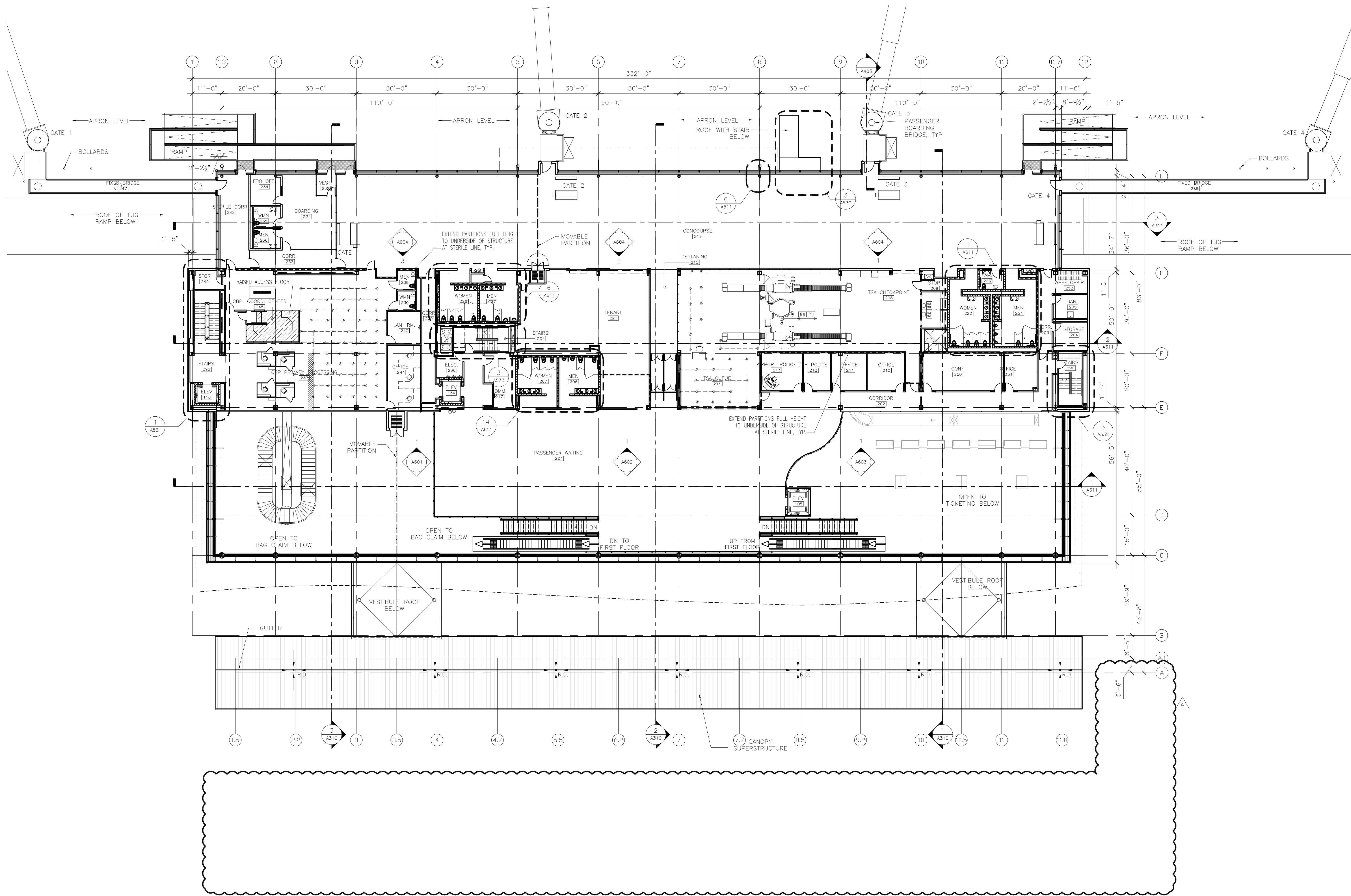
SHEET TITLE

ABBREVIATIONS
AND
GENERAL NOTES

SHEET NUMBER

A001

BID PACKAGE 2B
ADDENDUM 2



1 SECOND LEVEL FLOOR PLAN
1/16" = 1'-0"

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Date: 06-03-10 Reg. No.: 46001

REVISIONS

NO.	DESCRIPTION	DATE
2	NOT CHANGED	
	CONFIRMANCE SET	7.12.10
3	FIN PERMIT REVISIONS	7.23.10
	BUILDING PERMIT	8.16.10
	100% REVIEW	12.15.10
	BID PACKAGE 2A	1.24.11
	BP2A CONFIRMANCE SET	5.2.11
	BID PACKAGE 2B REVIEW	7.6.11
	BID PACKAGE 2B	8.23.11
4	BP2B ADDENDUM 2	9.15.11

DATE ISSUED: 09-15-11

REVIEWED BY: SBS/TC

DRAWN BY: MKG/MI

DESIGNED BY: SBS/TC

AEP PROJECT NUMBER

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SHEET TITLE

**OVERALL
SECOND FLOOR
PLAN**

SHEET NUMBER

A102

**BID PACKAGE 2B
ADDENDUM 2**

CONSULTANTS

Interior Architects:
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Signature: 

Date: 06-03-10 Reg. No.: 46001

REVISIONS

NO.	DESCRIPTION	DATE
	CONFIRMANCE SET	7.12.10
	BUILDING PERMIT	8.16.10
4	BUILDING PERMIT REVISIONS	11.12.10
	100% REVIEW	12.15.10
	BID PACKAGE 2A	1.24.11
5	BP2A ADDENDUM 2	2.25.11
	BP2A CONFIRMANCE SET	5.2.11
	BID PACKAGE 2B REVIEW	7.6.11
	BID PACKAGE 2B	9.23.11
6	BP2B ADDENDUM 2	9.15.11

DATE ISSUED: 09-15-11

REVIEWED BY: SBS/TC

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AEP PROJECT NUMBER

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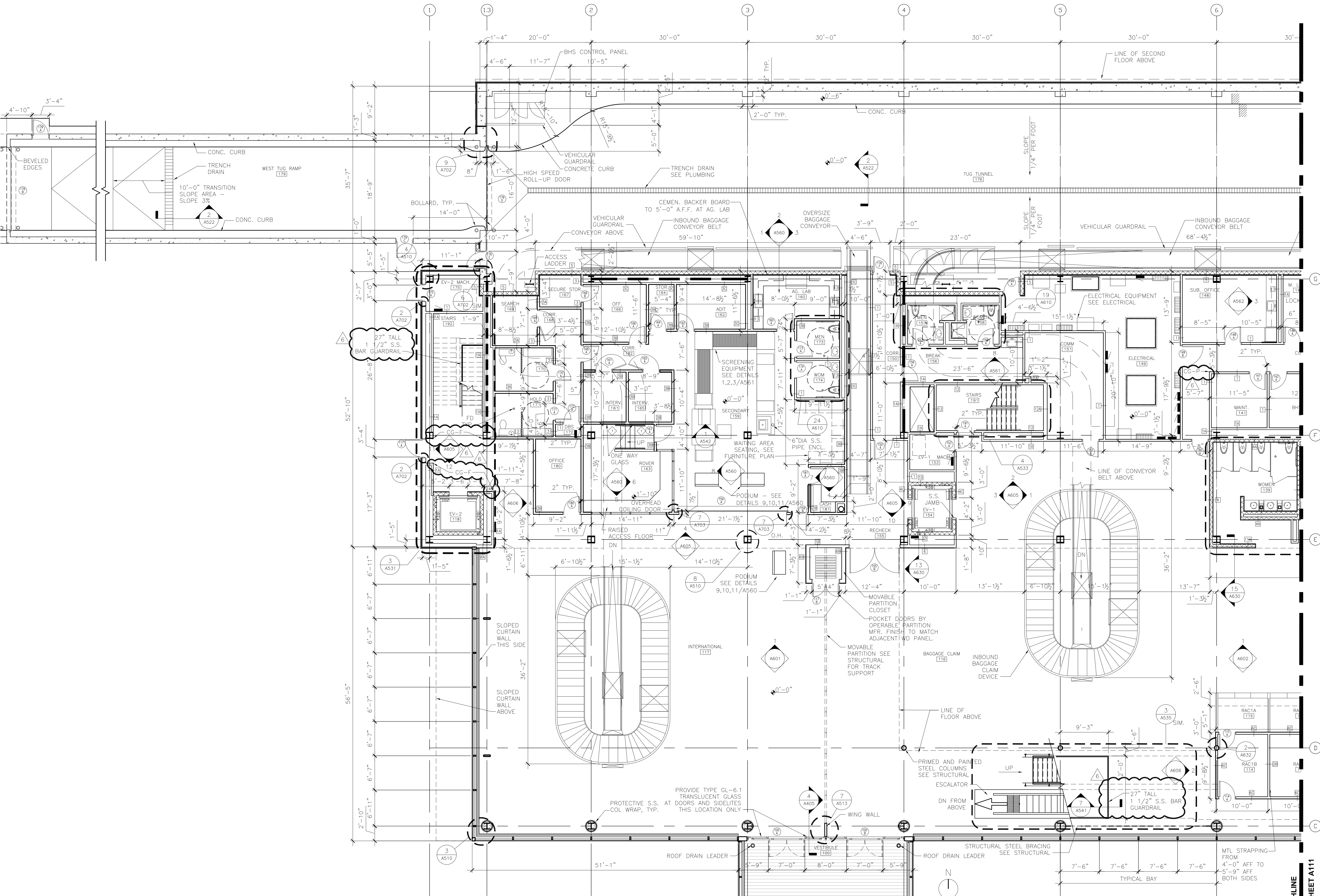
SHEET TITLE

**ENLARGED
FIRST FLOOR
PLAN AREA A**

SHEET NUMBER

A110

**BID PACKAGE 2B
ADDENDUM 2**



NOTE: SEE A301 AND 302 FOR
EXTENT OF WINDOW TREATMENTS

CONSULTANTS

Interior Architects:

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Signature: 

Date: 06-03-10 Reg. No.: 46001

REVISIONS

NO.	DESCRIPTION	DATE
1,2,3	NOT CHANGED	
	CONFIRMANCE SET	7.12.10
	BUILDING PERMIT	8.16.10
4	BUILDING PERMIT REVISIONS	11.12.10
	100% REVIEW	12.15.10
	BID PACKAGE 2A	1.24.11
5	BP2A ADDENDUM 2	2.25.11
	BP2A CONFIRMANCE SET	5.2.11
	BID PACKAGE 2B REVIEW	7.6.11
6	BP2B ADDENDUM 2	9.13.11

DATE ISSUED: 09-15-11

REVIEWED BY: SBS/TC

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AEP PROJECT NUMBER

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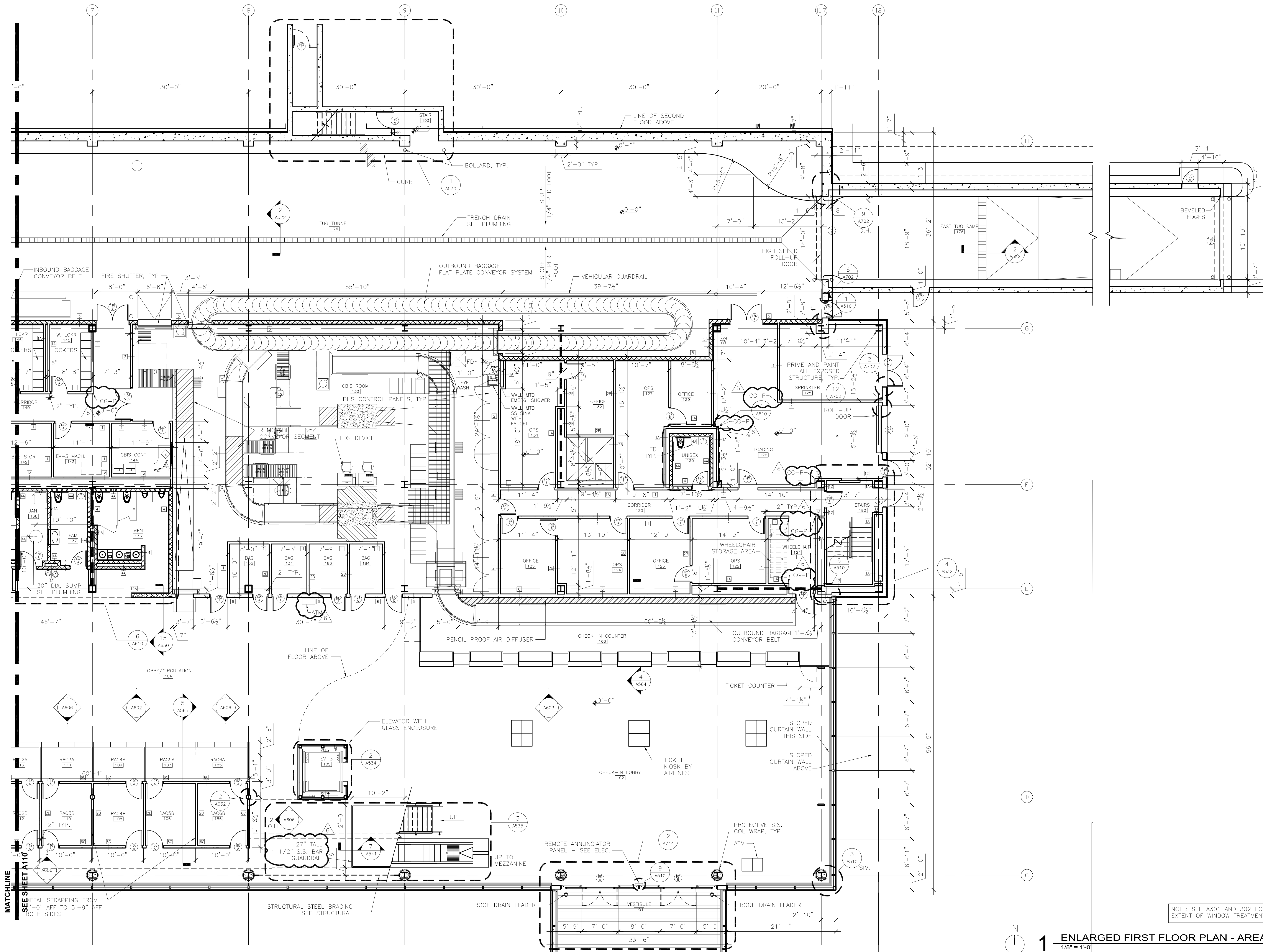
SHEET TITLE

**ENLARGED
FIRST FLOOR
PLAN AREA B**

SHEET NUMBER

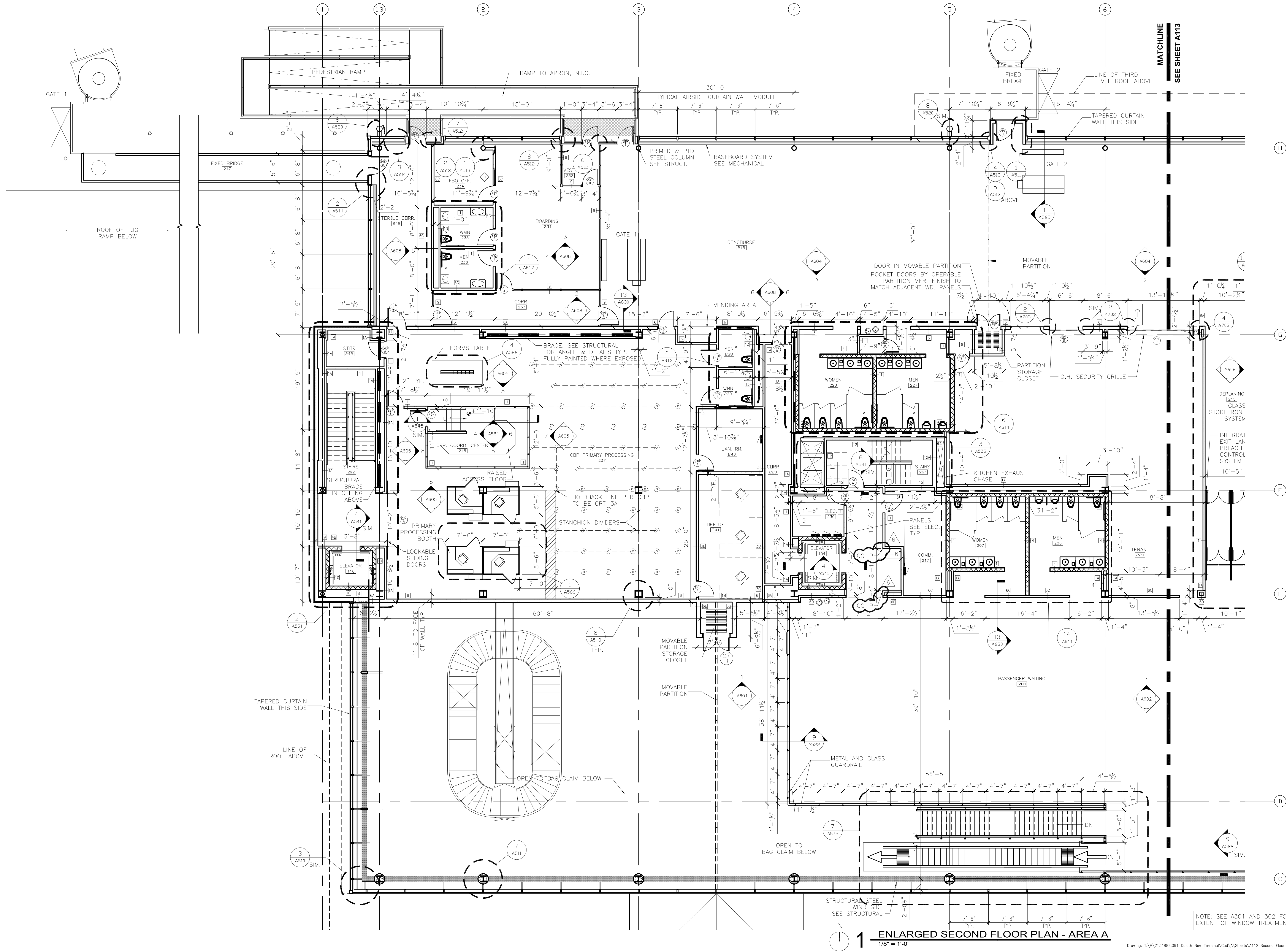
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**BID PACKAGE 2B
ADDENDUM 2**



NOTE: SEE A301 AND 302 FOR
EXTENT OF WINDOW TREATMENTS

1 ENLARGED FIRST FLOOR PLAN - AREA B
1/8" = 1'-0"



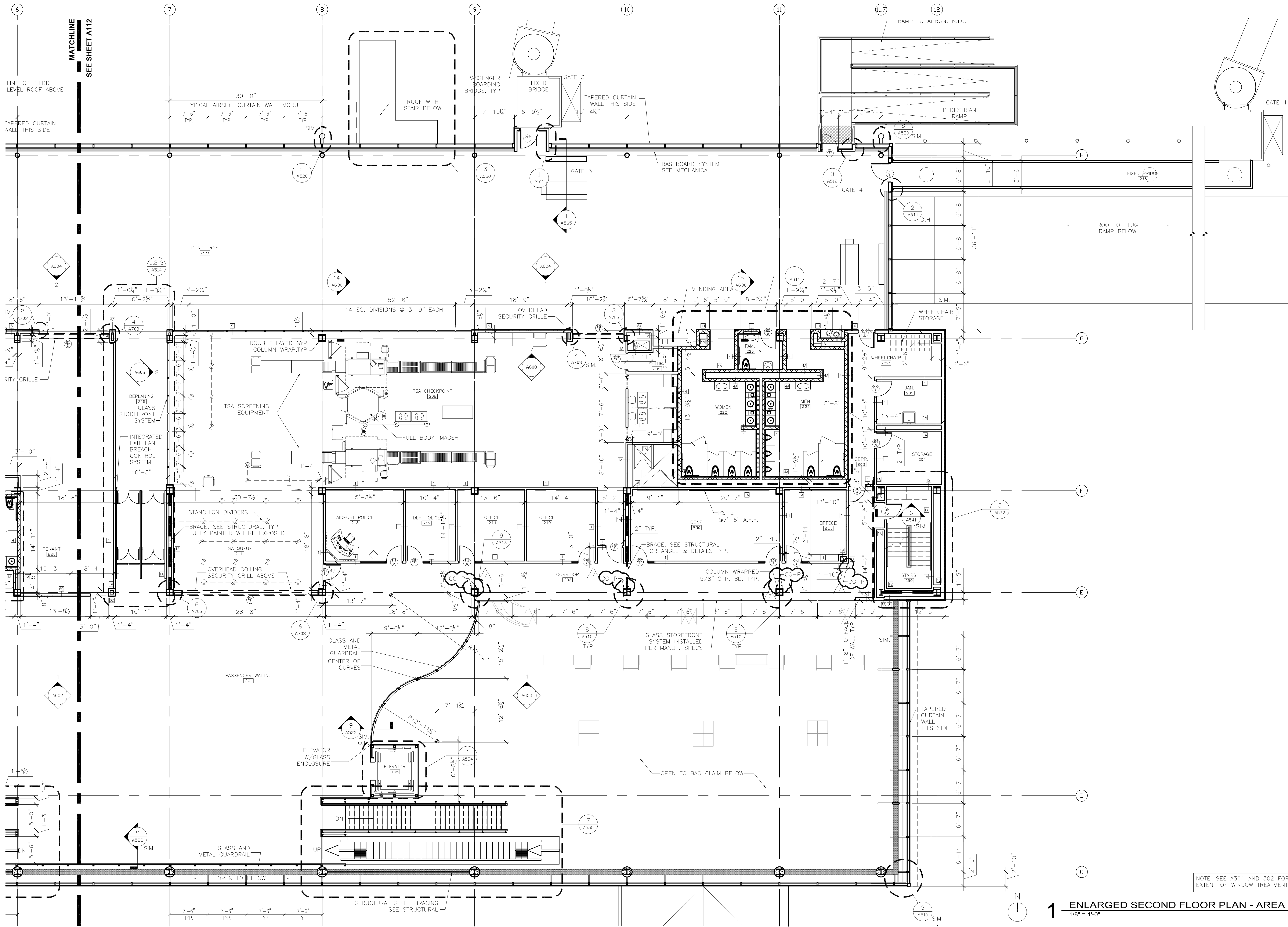
REVISIONS		
NO.	DESCRIPTION	DATE
3	FIN PERMIT REVISIONS	7.23.10
4	BUILDING PERMIT	8.16.10
5	BUILDING PERMIT REVISIONS	11.12.10
6	BUILDING PERMIT REVISIONS	11.24.10
7	100% REVIEW	12.15.10
8	BID PACKAGE 2A	1.24.11
9	BP2A CONFORMANCE SET	5.2.11
10	BID PACKAGE 2B REVIEW	7.6.11
11	BID PACKAGE 2B	8.23.11
12	BP2B ADDENDUM 2	9.15.11

DATE ISSUED: 09-15-11
REVIEWED BY: SBS/TC
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AEP PROJECT NUMBER
213-1882-091
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SHEET TITLE
**ENLARGED
SECOND FLOOR
PLAN AREA A**

SHEET NUMBER
A112
**BID PACKAGE 2B
ADDENDUM 2**



NOTE: SEE A301 AND 302 FOR
EXTENT OF WINDOW TREATMENTS

1 ENLARGED SECOND FLOOR PLAN - AREA B
1/8" = 1'-0"

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Print Name: Mark Ip

Signature:

Date: 06-03-10 Reg. No.: 46001

REVISIONS

NO.	DESCRIPTION	DATE
1	BUILDING PERMIT	8.16.10
4	BUILDING PERMIT REVISIONS	11.12.10
5	BUILDING PERMIT REVISIONS	11.24.10
	100% REVIEW	12.15.10
	BID PACKAGE 2A	1.24.11
	BP2A CONFORMANCE SET	5.2.11
	BID PACKAGE 2B REVIEW	7.6.11
	BID PACKAGE 2B	8.23.11
6	BP2B ADDENDUM 1	9.2.11
7	BP2B ADDENDUM 2	9.15.11

DATE ISSUED: 09-15-11

REVIEWED BY: SBS/TC

DRAWN BY: MKG/MI

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AEP PROJECT NUMBER

213-1882-091

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SHEET TITLE

**ENLARGED
SECOND FLOOR
PLAN AREA B**

SHEET NUMBER

A113

**BID PACKAGE 2B
ADDENDUM 2**

REVISIONS		
NO.	DESCRIPTION	DATE
4	BUILDING PERMIT	8.16.10
4	BUILDING PERMIT REVISIONS	11.12.10
5	CLARIFICATION-01	11.16.10
6	BUILDING PERMIT REVISIONS	11.24.10
1002	REVIEW	12.15.10
BID PACKAGE 2A		1.24.11
BP2A CONFORMANCE SET		5.2.11
BID PACKAGE 2B REVIEW		7.6.11
BID PACKAGE 2B		8.23.11
BP2B ADDENDUM 2		9.13.11

DATE ISSUED: 09-15-11
REVIEWED BY: SBS/TC
DRAWN BY: MKG/MI
DESIGNED BY: SBS/TC

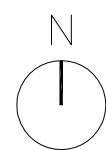
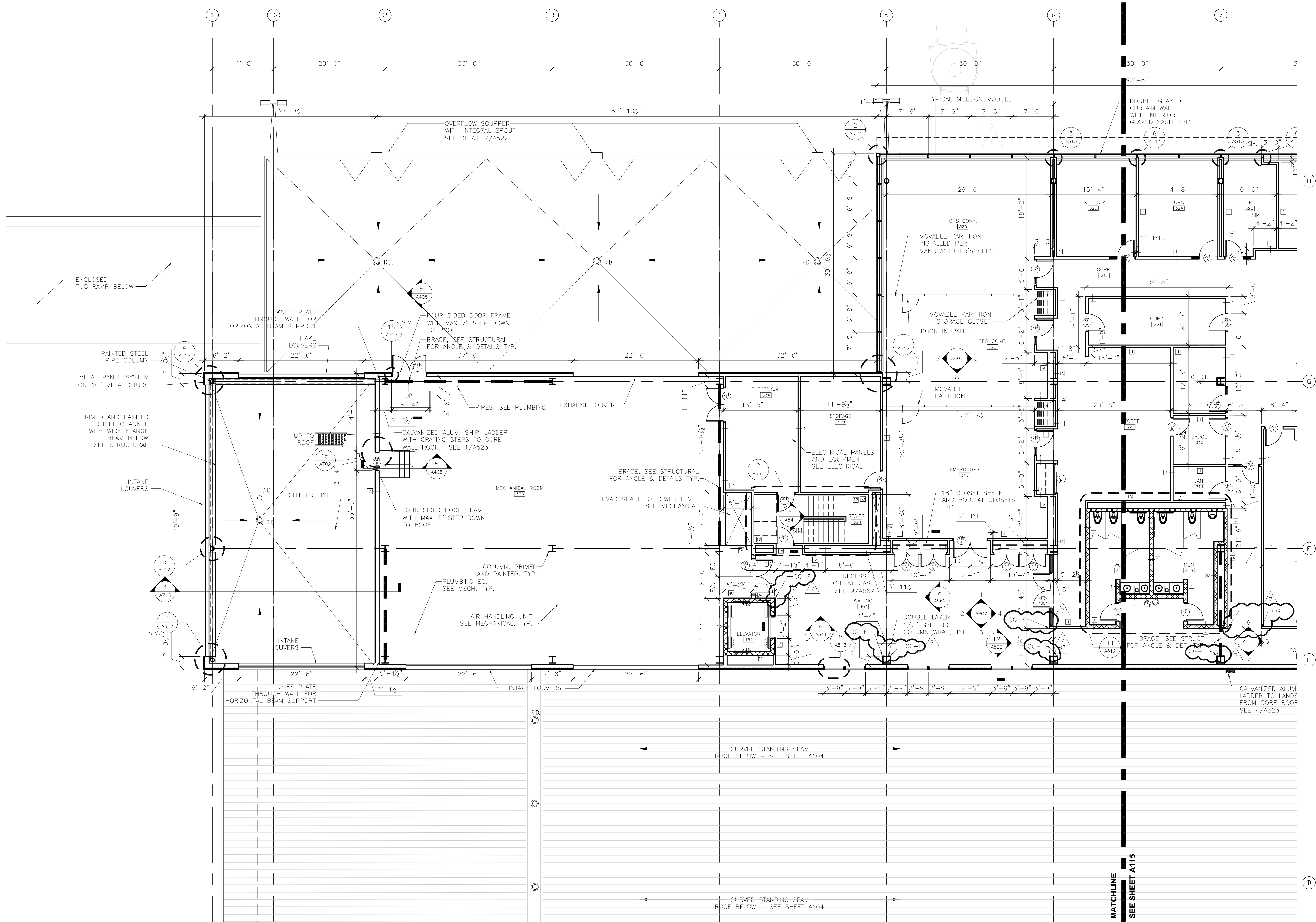
AEP PROJECT NUMBER
213-1882-091

SHEET TITLE
**ENLARGED
THIRD FLOOR
PLAN AREA A**

SHEET NUMBER

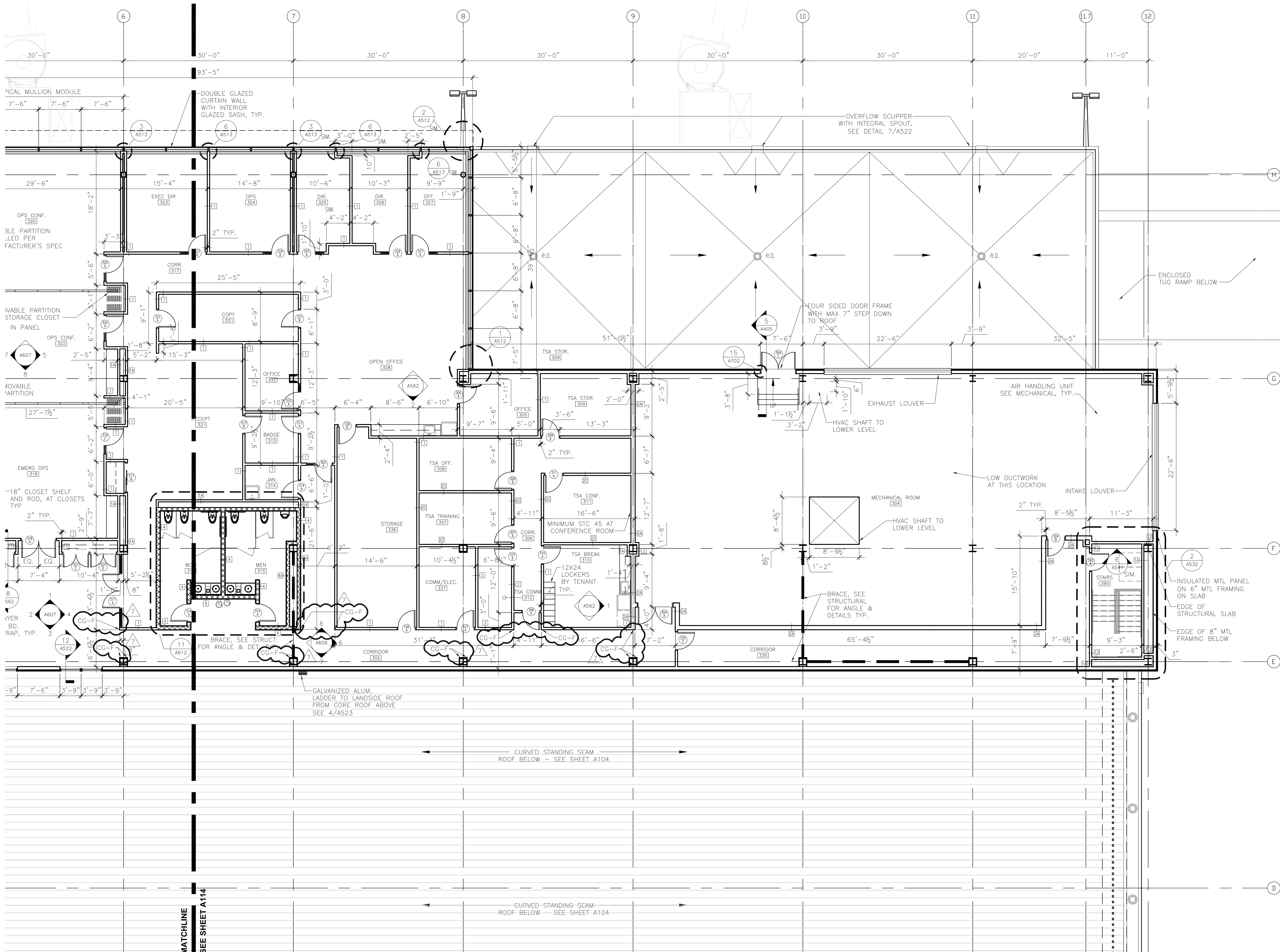
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**BID PACKAGE 2B
ADDENDUM 2**

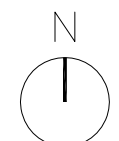


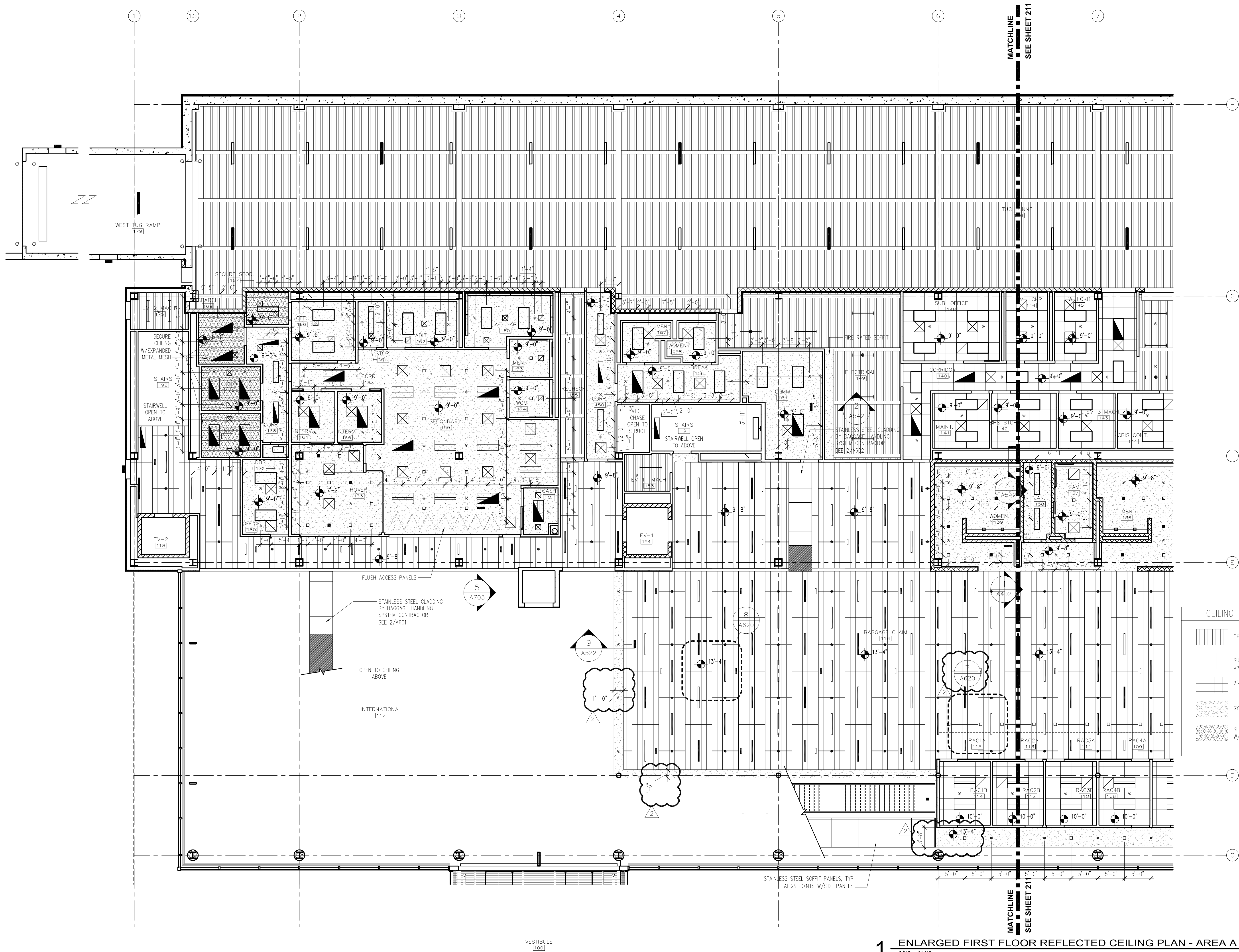
1 ENLARGED THIRD LEVEL FLOOR PLAN - AREA A
1/8" = 1'-0"

NO.	DESCRIPTION	DATE
1	BUILDING PERMIT	8.16.10
4	BUILDING PERMIT REVISIONS	11.12.10
5	CLARIFICATION-010	11.16.10
6	BUILDING PERMIT REVISIONS	11.24.10
1002	REVIEW	12.15.10
BID PACKAGE 2A		1.24.11
BP2A CONFORMANCE SET		5.2.11
BID PACKAGE 2B REVIEW		7.6.11
BID PACKAGE 2B		8.23.11
BP2B ADDENDUM 2		9.15.11



NOTE: SEE A301 AND 302 FOR
EXTENT OF WINDOW TREATMENTS





NO.	DESCRIPTION	DATE
	BUILDING PERMIT	8.16.10
	100% REVIEW	12.15.10
	BID PACKAGE 2A	1.24.11
1	BP2A - ADDENDUM 6	3.11.11
	BP2A CONFORMANCE SET	5.2.11
	BID PACKAGE 2B REVIEW	7.6.11
	BID PACKAGE 2B	8.23.11
2	BP2B ADDENDUM 2	9.15.11

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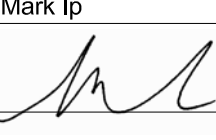
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Date: 06-03-10 Reg. No.: 46001

REVISIONS

NO.	DESCRIPTION	DATE
	BUILDING PERMIT	8.16.10
	100% REVIEW	12.15.10
	BID PACKAGE 2A	1.24.11
	BP2A CONFIRMANCE SET	5.2.11
	BID PACKAGE 2B REVIEW	7.6.11
	BID PACKAGE 2B	8.23.11
1	BP2B ADDENDUM 2	9.15.11

DATE ISSUED: 09-15-11

REVIEWED BY: SBS/TC

DRAWN BY: MKG/MI

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AEP PROJECT NUMBER

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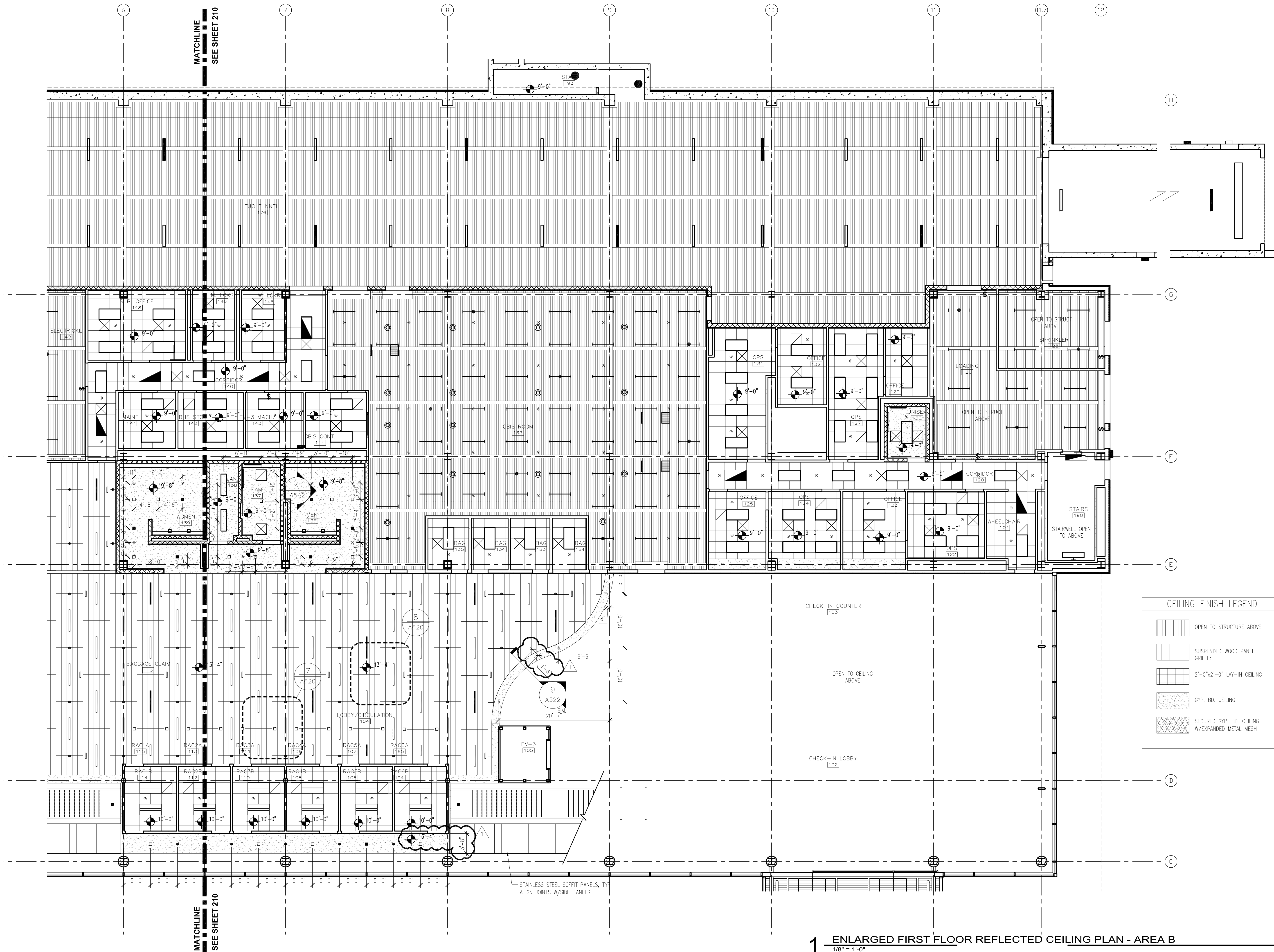
SHEET TITLE

**ENLARGED
FIRST FLOOR
REFLECTED CEILING
PLAN AREA B**

SHEET NUMBER

A211

**BID PACKAGE 2B
ADDENDUM 2**



1 ENLARGED FIRST FLOOR REFLECTED CEILING PLAN - AREA B
1/8" = 1'-0"

CONSULTANTS

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Signature: 

Date: 06-03-10 Reg. No.: 46001

REVISIONS

NO.	DESCRIPTION	DATE
	BUILDING PERMIT	8.16.10
	100% REVIEW	12.15.10
	BID PACKAGE 2A	1.24.11
	BP2A CONFORMANCE SET	5.2.11
	BID PACKAGE 2B REVIEW	7.6.11
	BID PACKAGE 2B	8.23.11
1	BP2B ADDENDUM 2	9.15.11

DATE ISSUED: 09-15-11

REVIEWED BY: SBS/TC

DRAWN BY: MKG/MI

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AEP PROJECT NUMBER

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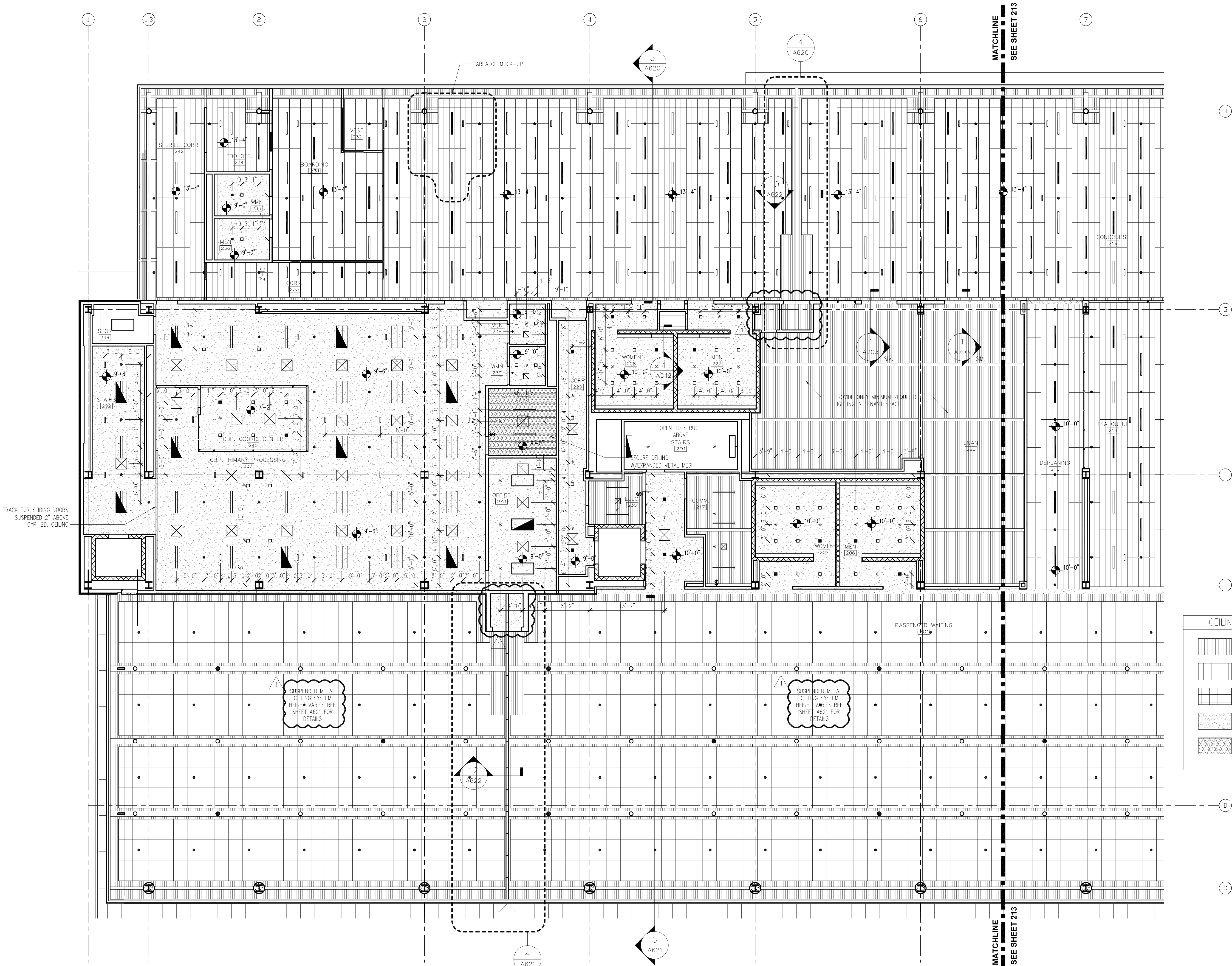
SHEET TITLE

**ENLARGED
SECOND FLOOR
REFLECTED CEILING
PLAN AREA A**

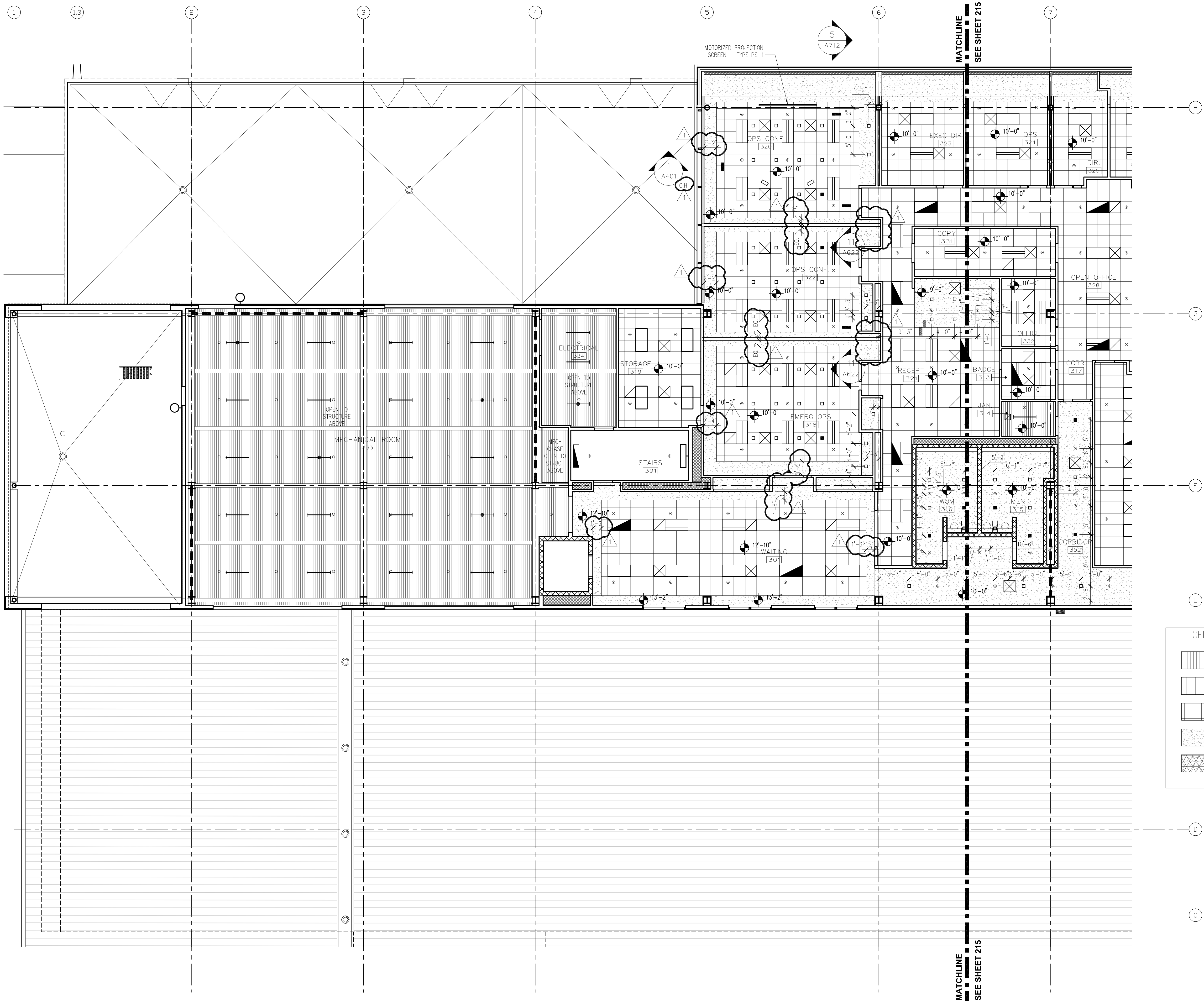
SHEET NUMBER

A212

**BID PACKAGE 2B
ADDENDUM 2**



1 ENLARGED SECOND FLOOR REFLECTED CEILING PLAN - AREA A
1/8" = 1'-0"



CEILING FINISH LEGEND	
	OPEN TO STRUCTURE ABOVE
	SUSPENDED WOOD PANEL GRILLES
	2'-0"x2'-0" LAY-IN CEILING
	GYP. BD. CEILING
	SECURED GYP. BD. CEILING W/EXPANDED METAL MESH

1 ENLARGED THIRD FLOOR REFLECTED CEILING PLAN - AREA A
1/8" = 1'-0"



Reynolds, Smith and Hills, Inc.
4525 Airport Approach Rd, Ste A
Duluth, Minnesota 55811
218-722-1227 Fax: 218-722-1052
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11 E Superior Street Suite 340, Duluth MN 55802
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Structural Engineers:
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TEL: (218) 722-1056 / FAX: (218) 722-9306

M/E/P/F Engineers:
COSENTINI ASSOCIATES INC.
1 South Wacker Drive, 37th Floor, Chicago IL 60606
TEL: (312) 201-7406 / FAX: (312) 201-0031

Baggage Handling Systems Consultants:
BNP ASSOCIATES INC.
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TEL: (203) 792-3000 / FAX: (203) 792-4900

Landscaping Consultants:
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2432 East First Street, Duluth MN 55812
TEL: (218) 591-5079

ARCHITECTURAL CERTIFICATION
I hereby certify that the architectural plans,
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or under my direct supervision and that I am
a duly licensed Professional Architect under
the laws of the State of Minnesota.

Print Name: Mark Ip

Signature:

Date: 06-03-10 Reg. No.: 46001

REVISIONS

NO.	DESCRIPTION	DATE
	BUILDING PERMIT	8.16.10
	100% REVIEW	12.15.10
	BID PACKAGE 2A	1.24.11
	BP2A CONFORMANCE SET	5.2.11
	BID PACKAGE 2B REVIEW	7.6.11
	BID PACKAGE 2B	8.23.11
1	BP2B ADDENDUM 2	9.15.11

DATE ISSUED: 09-15-11

REVIEWED BY: SBS/TC

DRAWN BY: MKG/MI

DESIGNED BY: SBS/TC

AEP PROJECT NUMBER

213-1882-091

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SHEET TITLE

ENLARGED
THIRD FLOOR
REFLECTED CEILING
PLAN AREA A

SHEET NUMBER

A214

BID PACKAGE 2B
ADDENDUM 2

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	BP2A CONFORMANCE SET	5.2.11
	BID PACKAGE 2B REVIEW	7.6.11
	BID PACKAGE 2B	8.23.11
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DATE ISSUED: 09-15-11
REVIEWED BY: SBS/TC
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DESIGNED BY: SBS/TC

AEP PROJECT NUMBER
213-1882-091

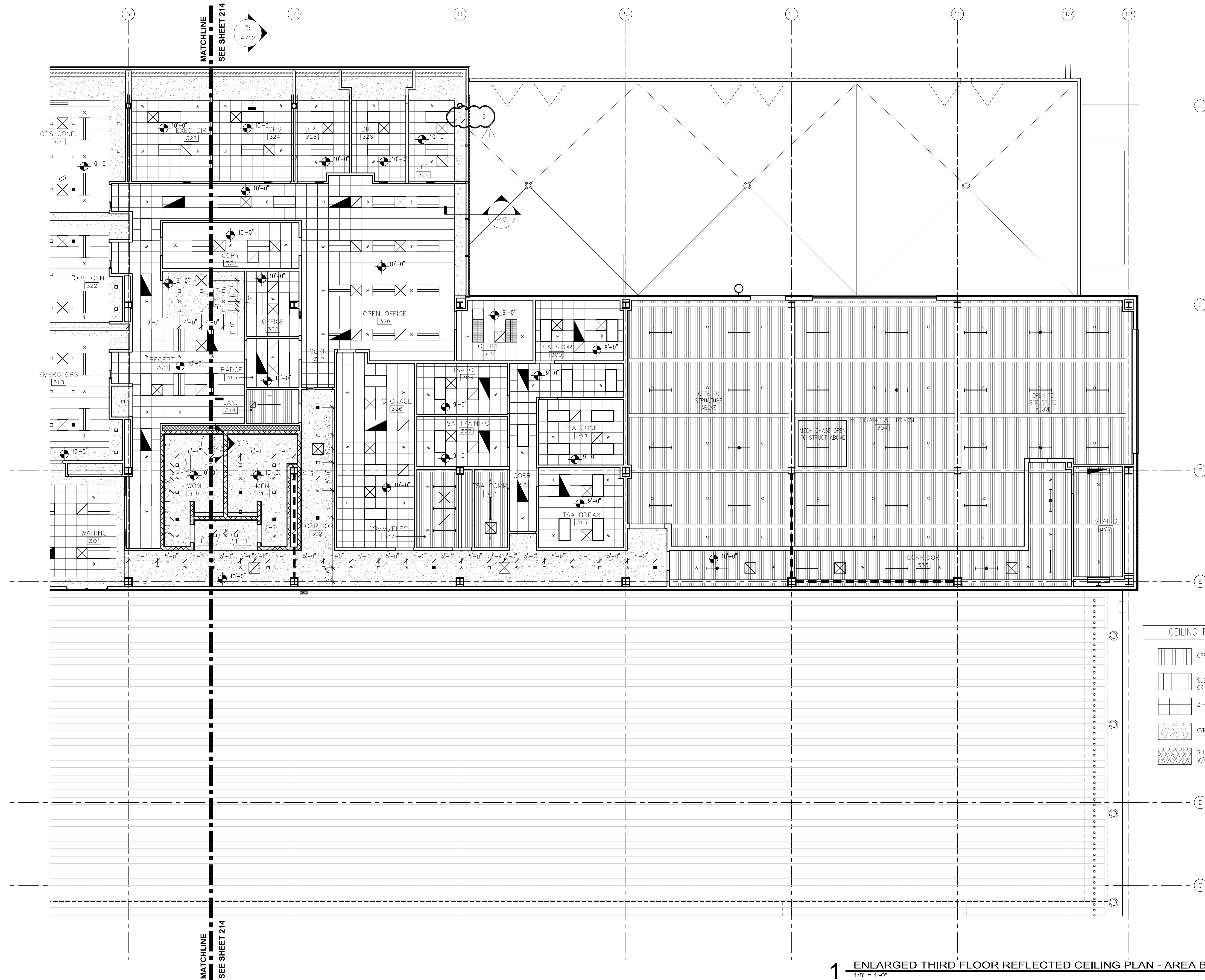
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SHEET TITLE
**ENLARGED
THIRD FLOOR
REFLECTED CEILING
PLAN AREA B**

SHEET NUMBER

A215

**BID PACKAGE 2B
ADDENDUM 2**



1 ENLARGED THIRD FLOOR REFLECTED CEILING PLAN - AREA B
1/8" = 1'-0"

REVISIONS		
NO.	DESCRIPTION	DATE
2,3	NOT CHANGED	
1	CONFIRMANCE SET	7.12.10
4	BUILDING PERMIT REVISIONS	11.12.10
	100% REVIEW	12.15.10
	BID PACKAGE 2A	1.24.11
5	CLARIFICATION-072	1.25.11
	BP2A CONFIRMANCE SET	5.2.11
	BID PACKAGE 2B REVIEW	7.6.11
	BID PACKAGE 2B	8.23.11
6	BP2B ADDENDUM 2	9.15.11

DATE ISSUED: 09-15-11

REVIEWED BY: SBS/TC

DRAWN BY: MKG/MI

DESIGNED BY: SBS/TC

AEP PROJECT NUMBER

213-1882-091

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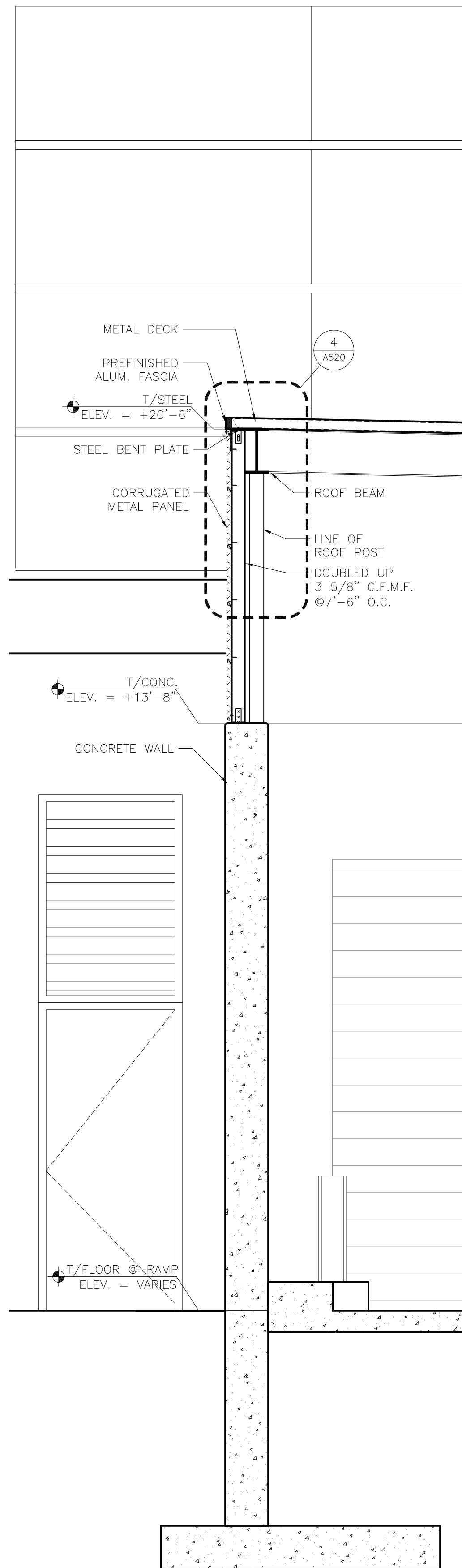
SHEET TITLE

WALL SECTIONS

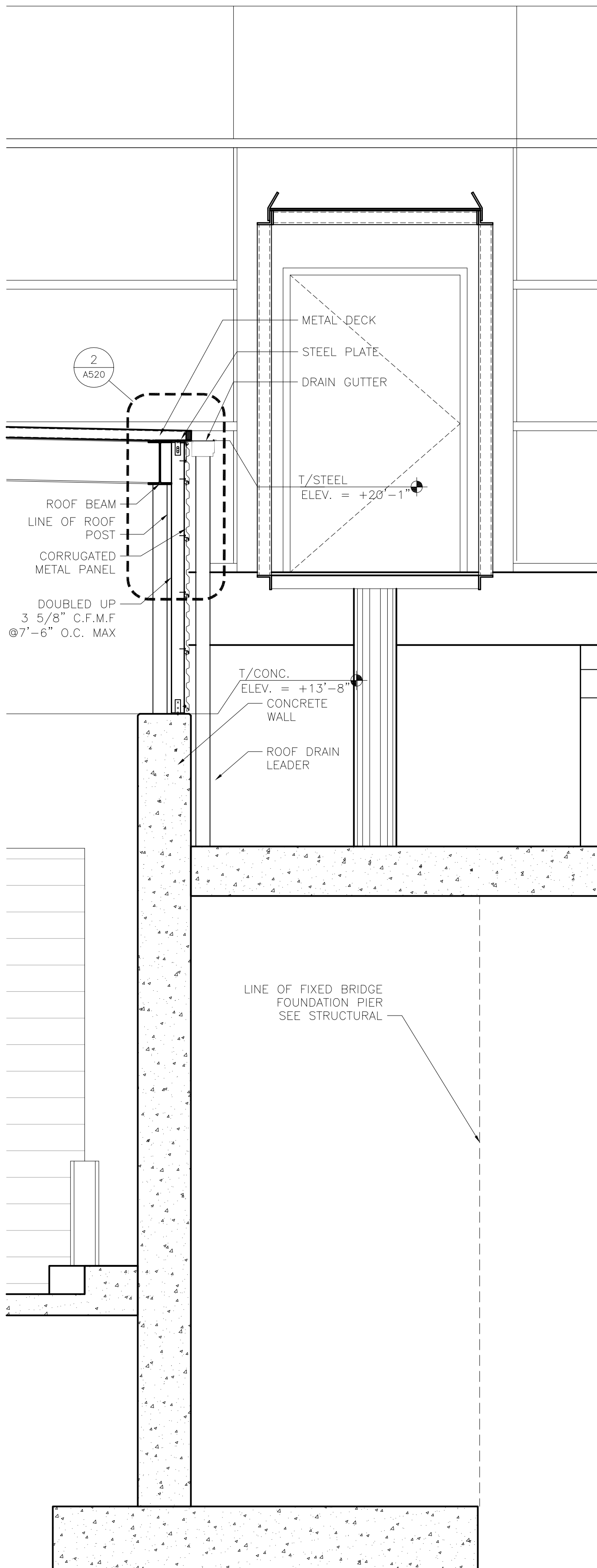
SHEET NUMBER

A401

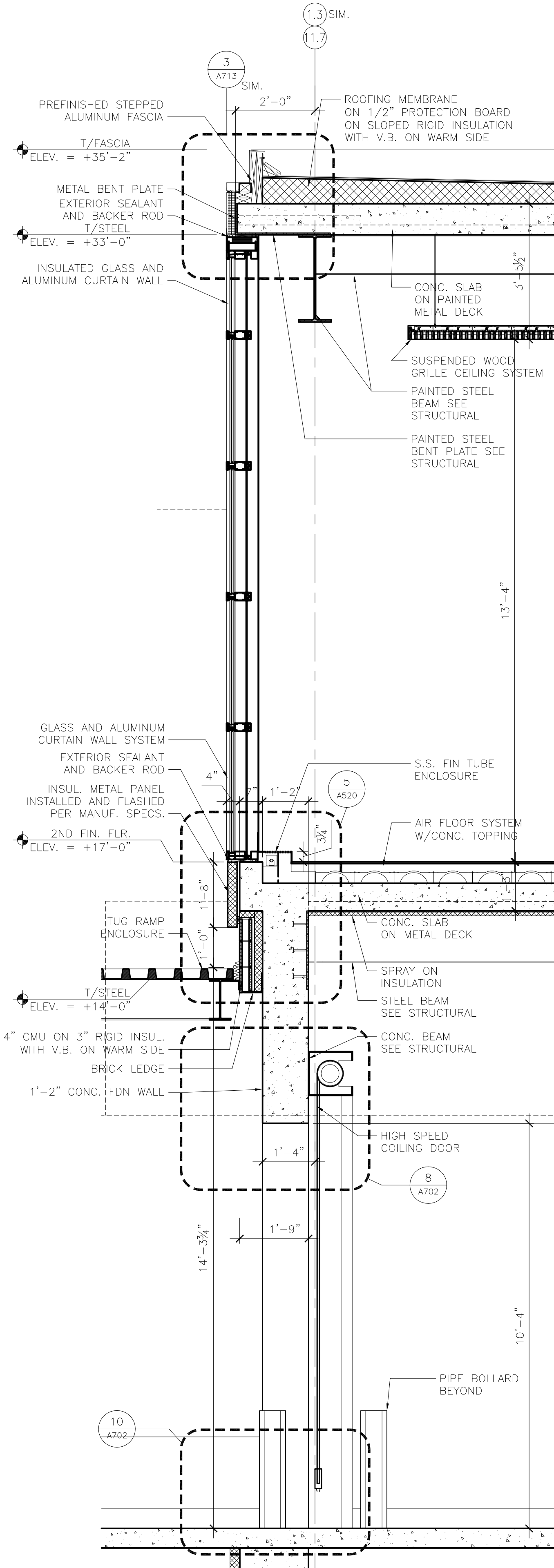
**BID PACKAGE 2B
ADDENDUM 2**



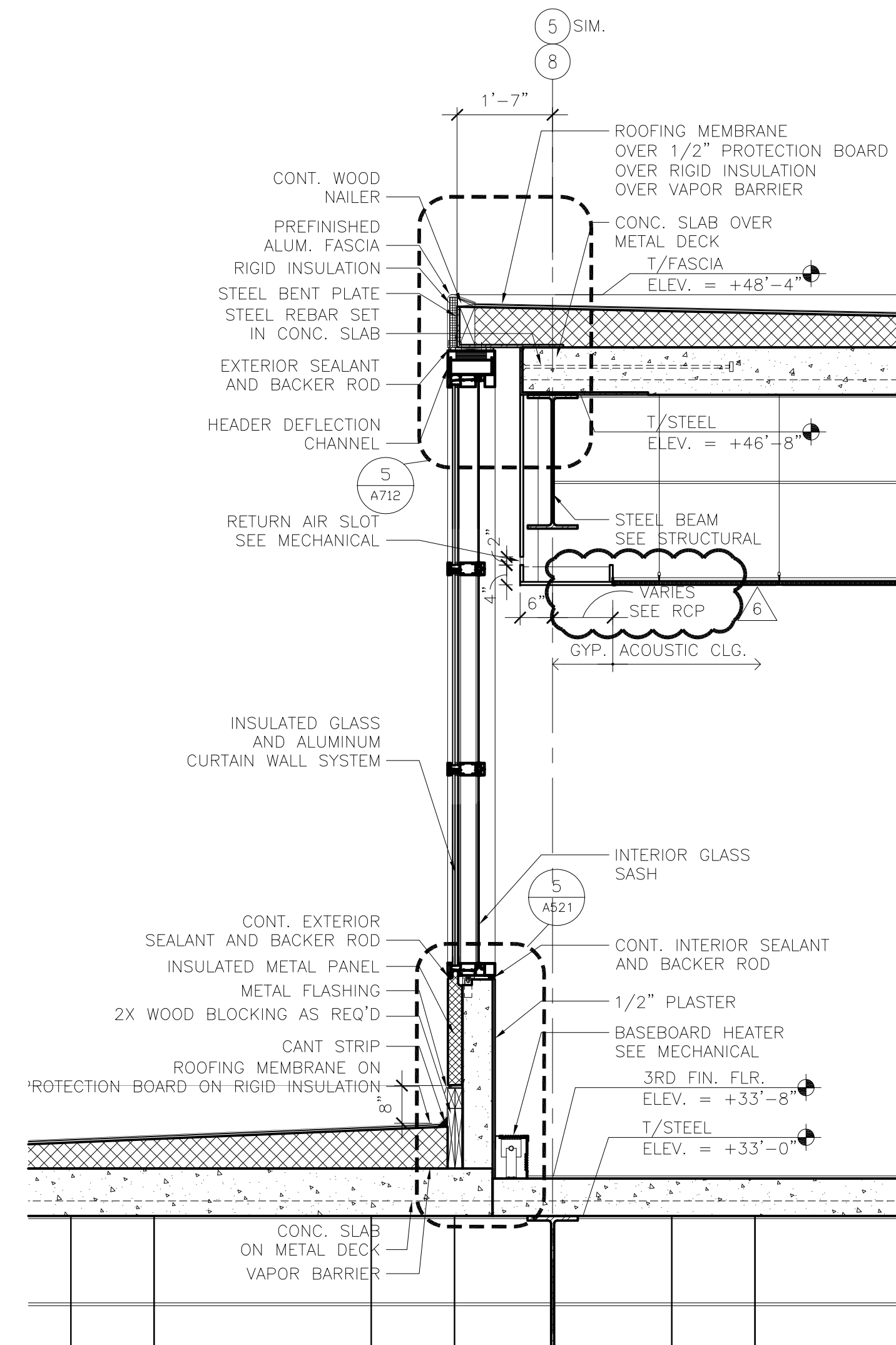
4 WALL SECTION @ TUG TUNNEL
1/2" = 1'-0"



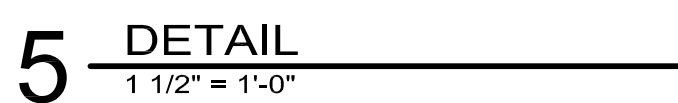
3 WALL SECTION @ TUG TUNNEL
1/2" = 1'-0"



2 WALL SECTION @ CONCOURSE CURTAIN WALL
1/2" = 1'-0"



1 WALL SECTION @ ADMIN CURTAIN WALL
1/2" = 1'-0"



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	BID PACKAGE 2B	8.23.11
5	BP2B ADDENDUM 2	9.15.11

DATE ISSUED: 09-15-11
REVIEWED BY: TC/SBS
DRAWN BY: MG/MI
DESIGNED BY: TC/SBS

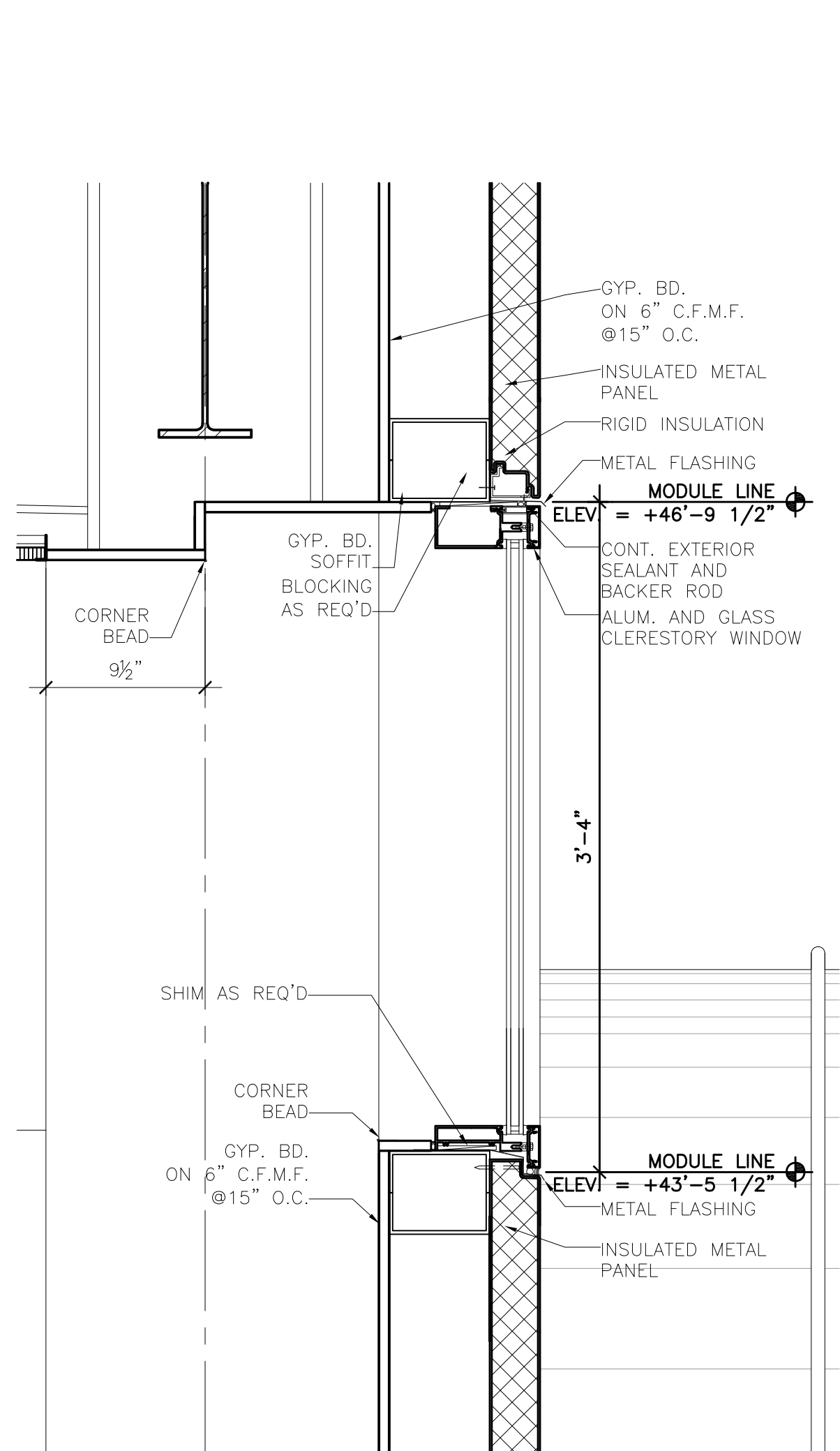
AEP PROJECT NUMBER
213-1882-091
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**SECTION
DETAILS**

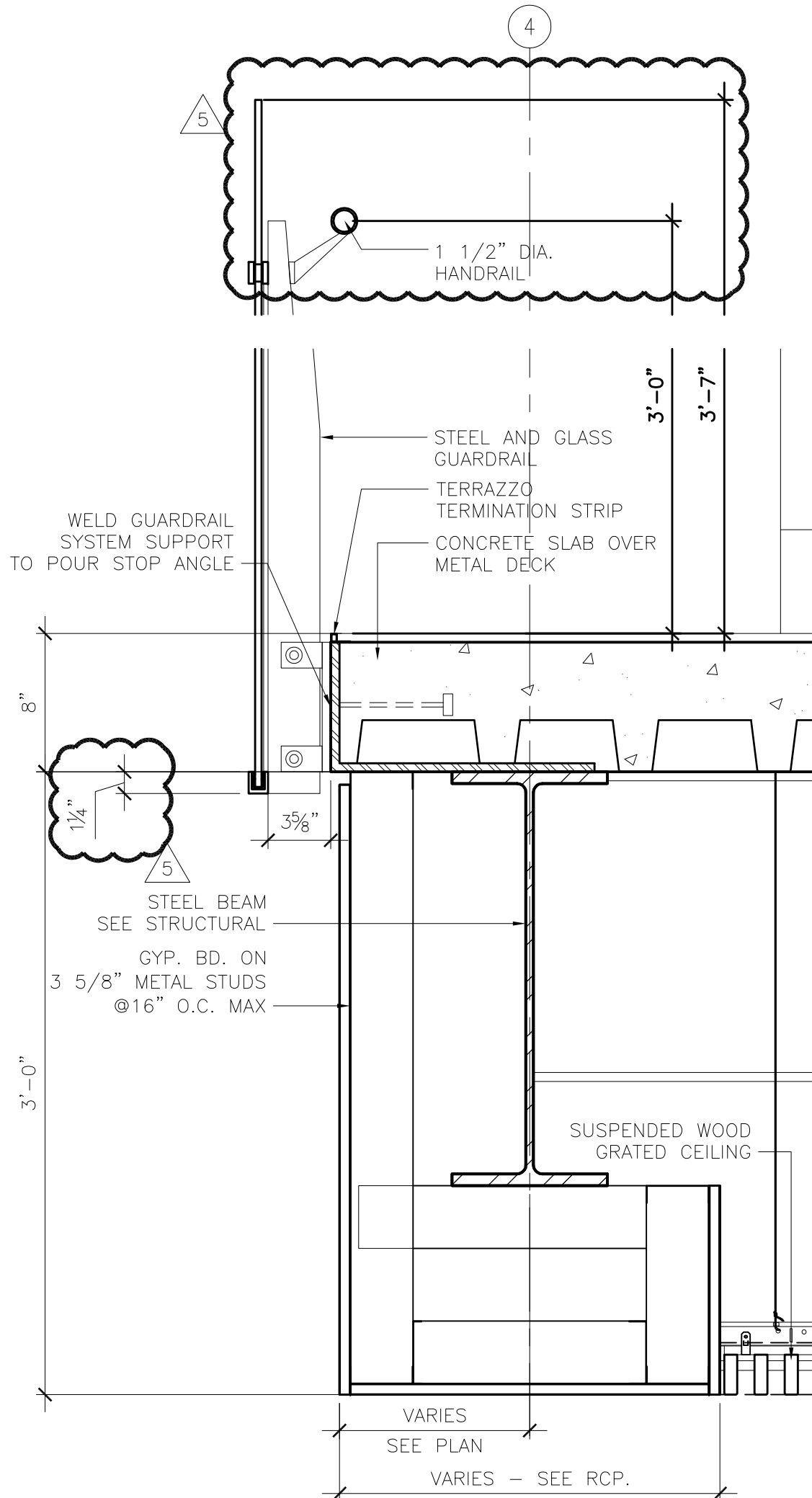
SHEET NUMBER

A522

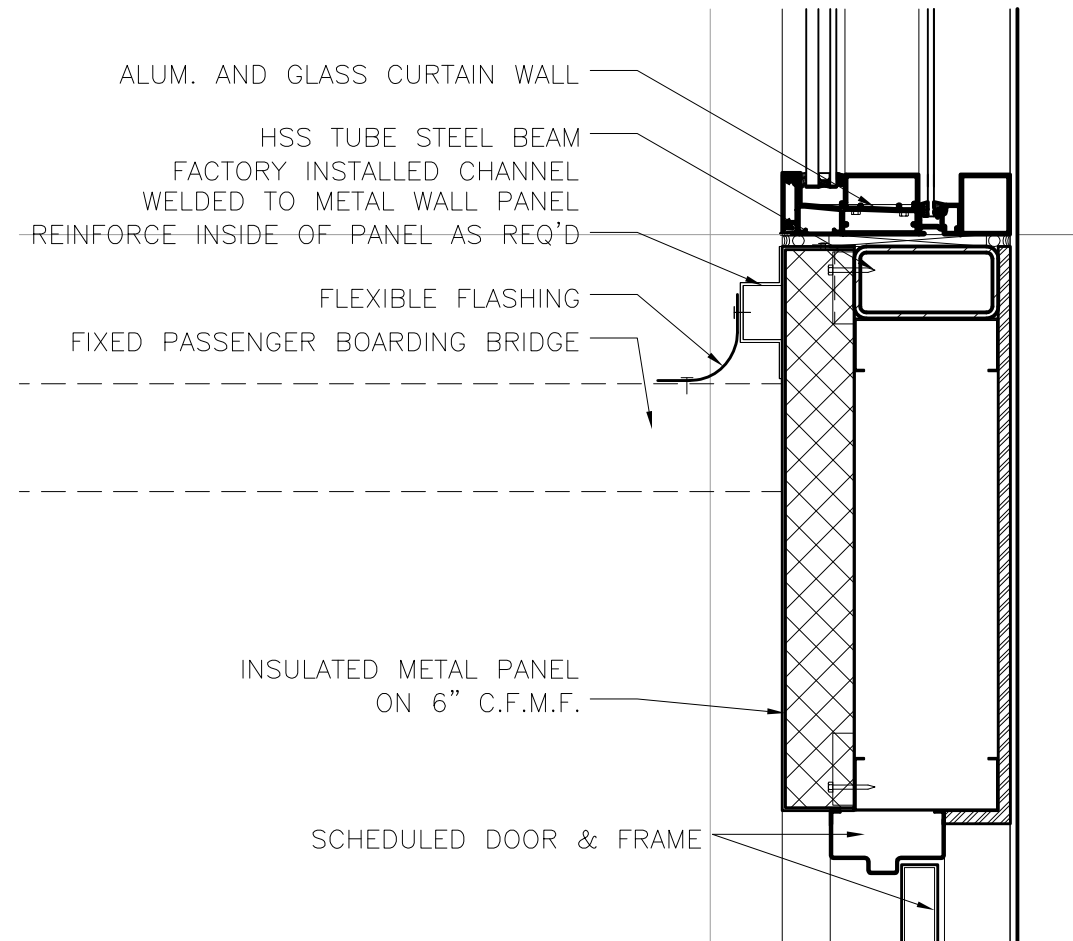
**BID PACKAGE 2B
ADDENDUM 2**



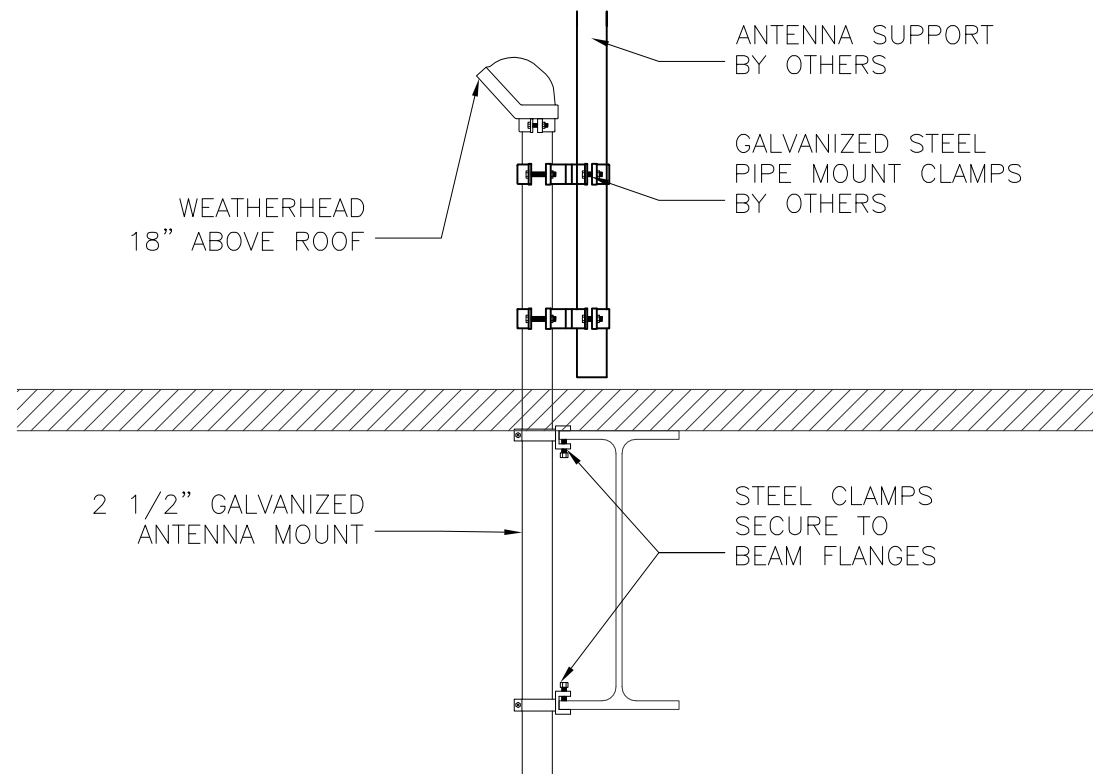
12 SECTION DETAIL @ THIRD FLR CLERESTORY
1 1/2" = 1'-0"



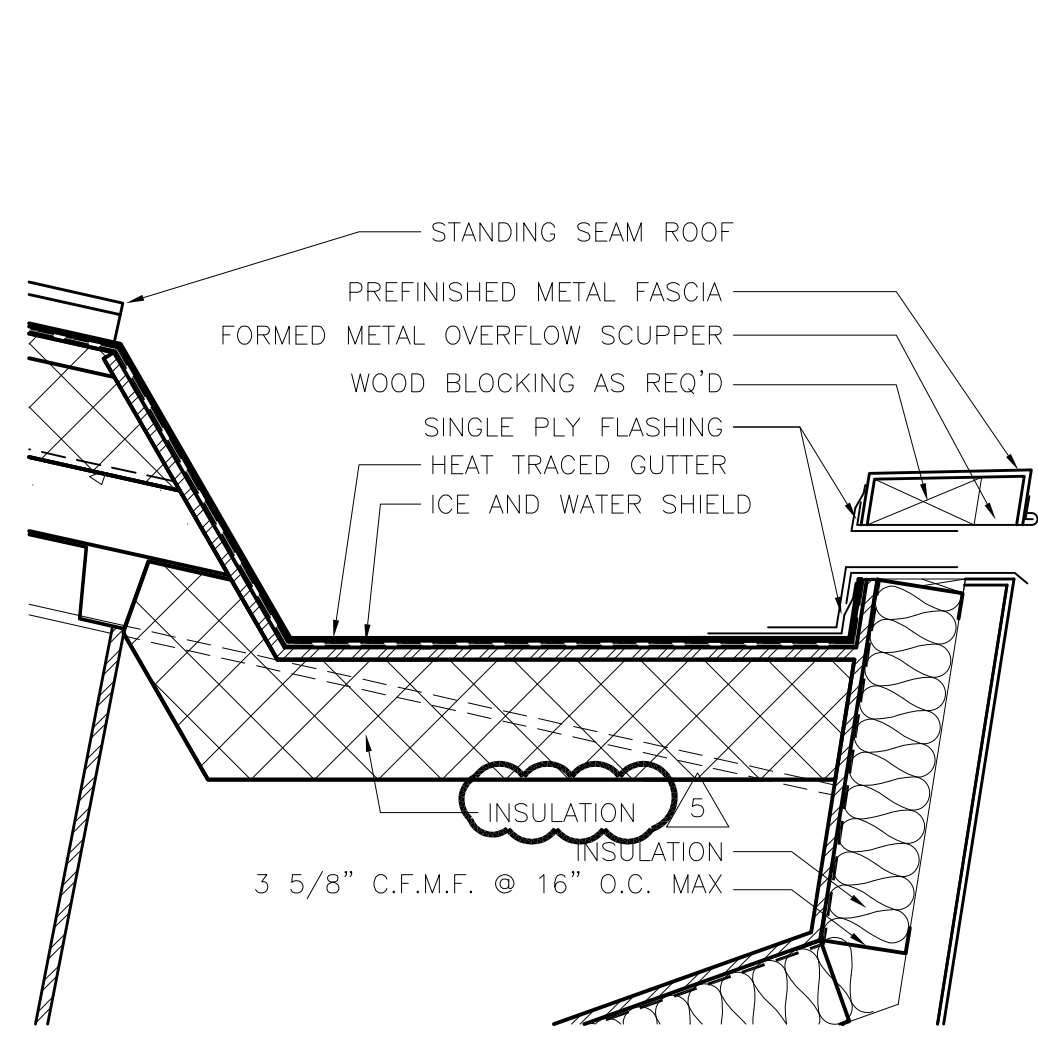
9 SECTION DETAIL @ MEZZANINE
1 1/2" = 1'-0"



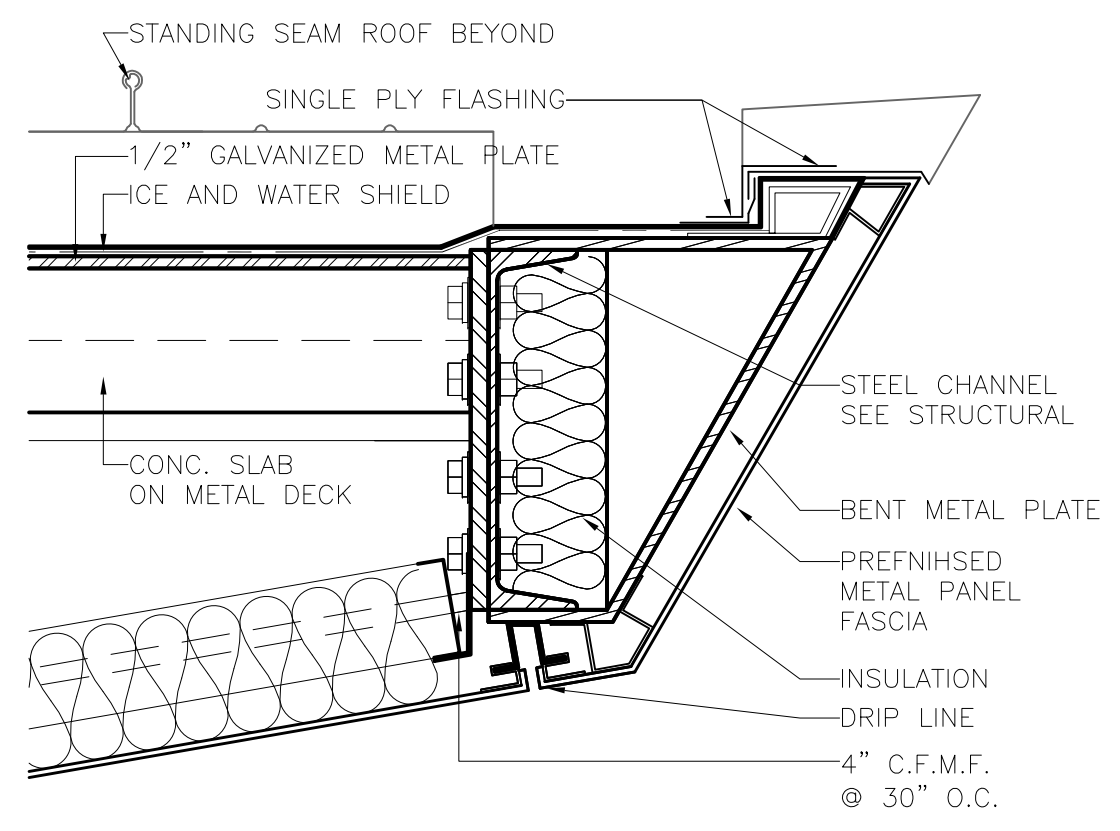
10 SECTION DETAIL @ FIXED BRIDGE
1 1/2" = 1'-0"



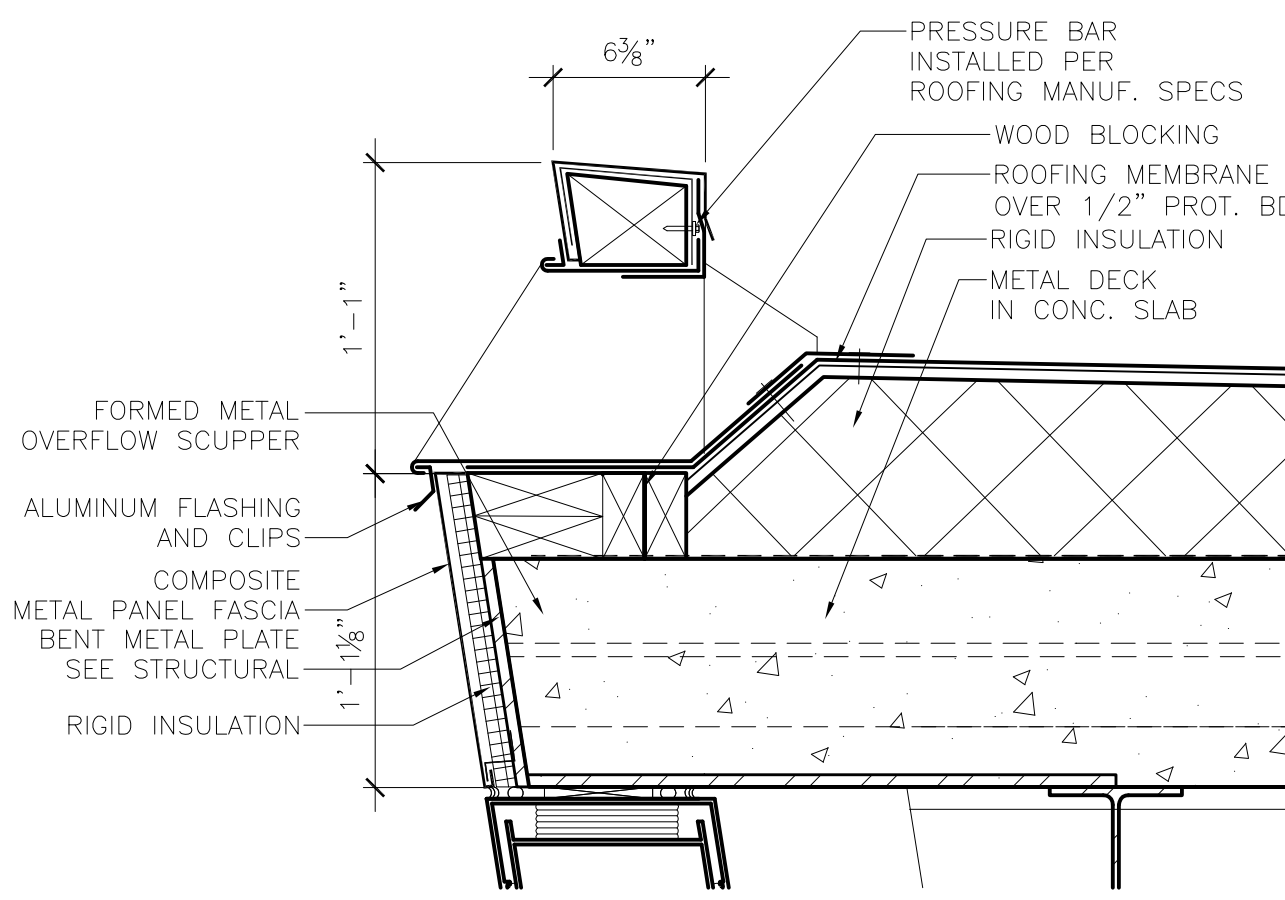
11 ANTENNA SUPPORT DETAIL
NOT TO SCALE



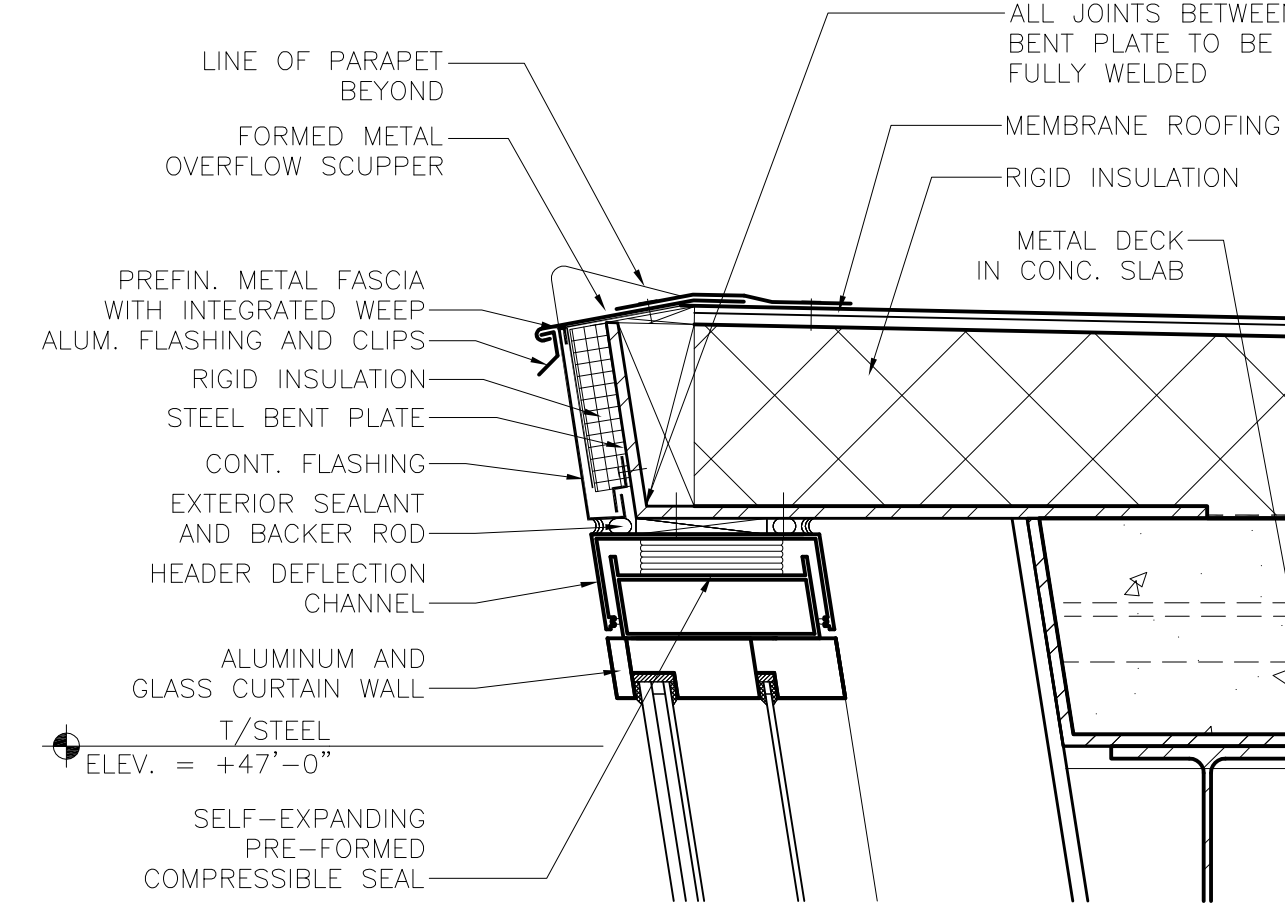
5 SCUPPER DETAIL @ EAST GUTTER
1 1/2" = 1'-0"



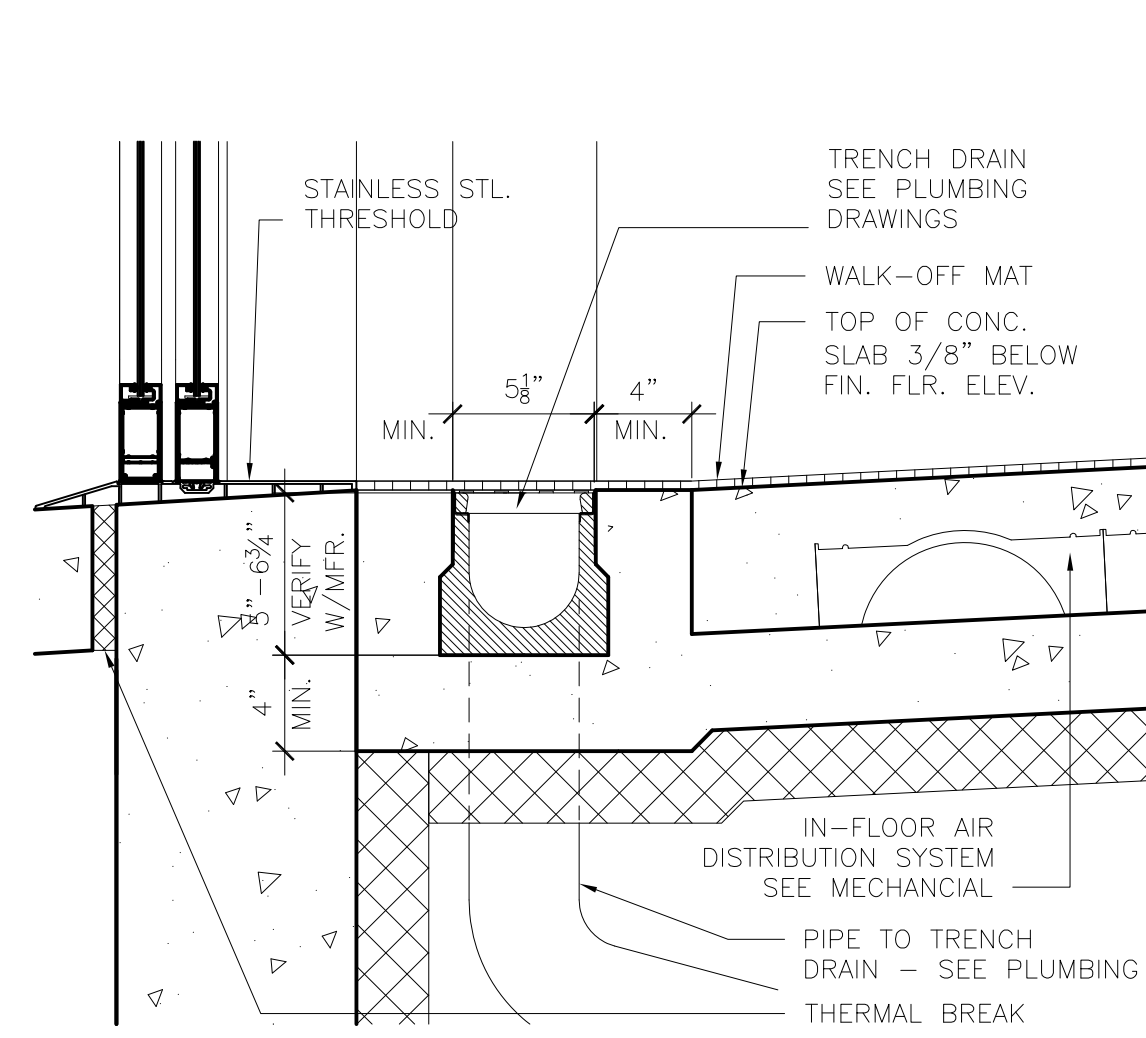
6 SCUPPER DETAIL @ SOUTH GUTTER
1 1/2" = 1'-0"



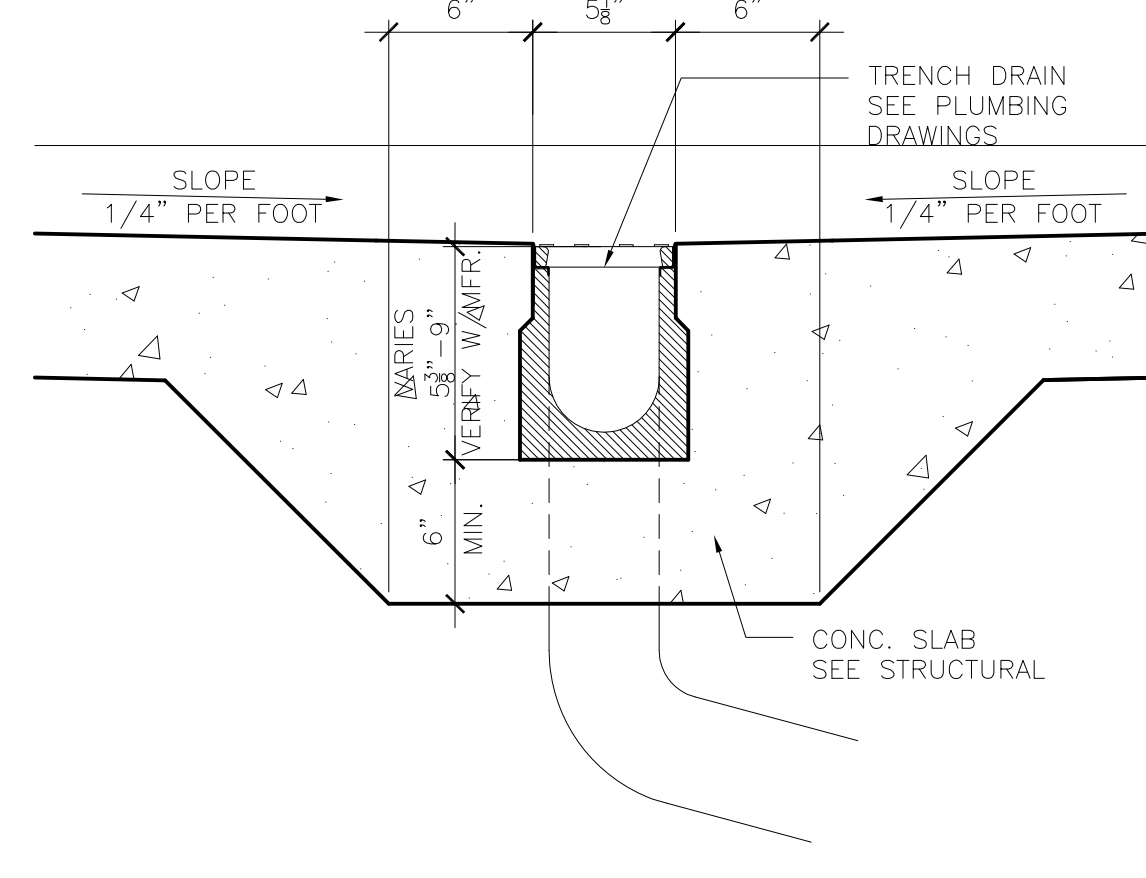
7 SCUPPER DETAIL @ NORTH LOW ROOF
1 1/2" = 1'-0"



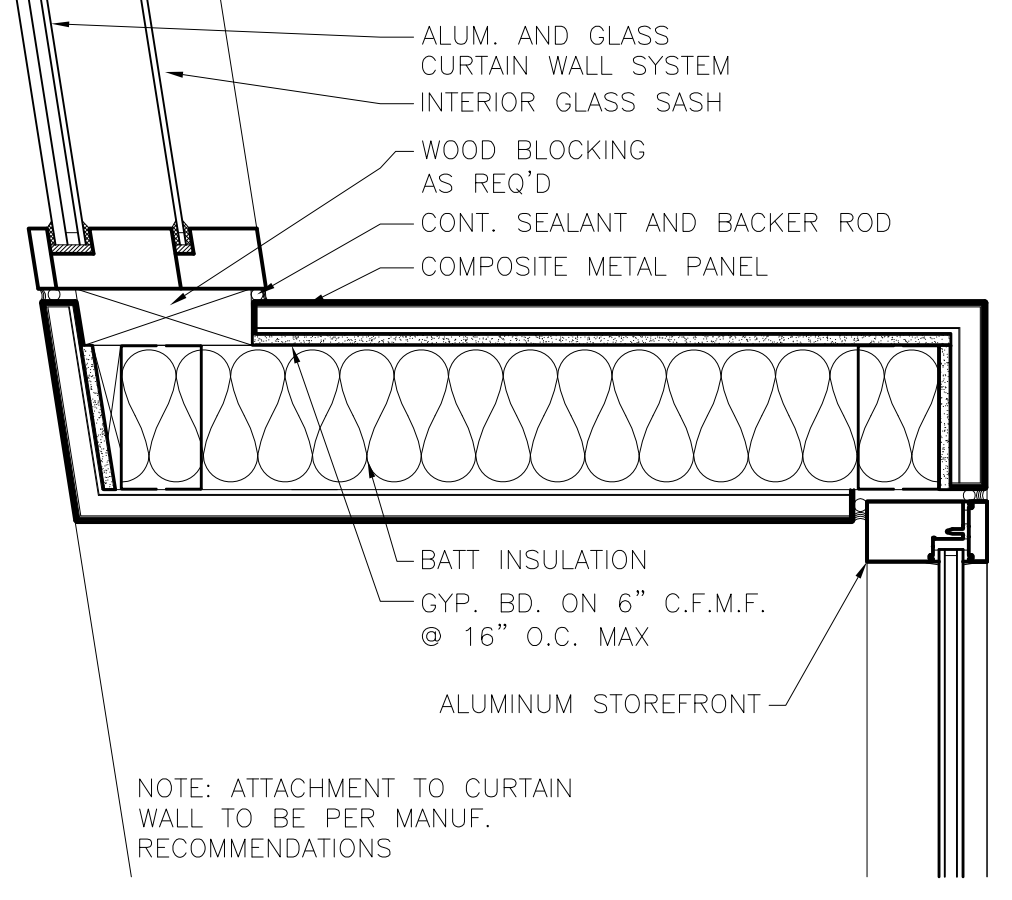
8 SCUPPER DETAIL @ NORTH HIGH ROOF
1 1/2" = 1'-0"



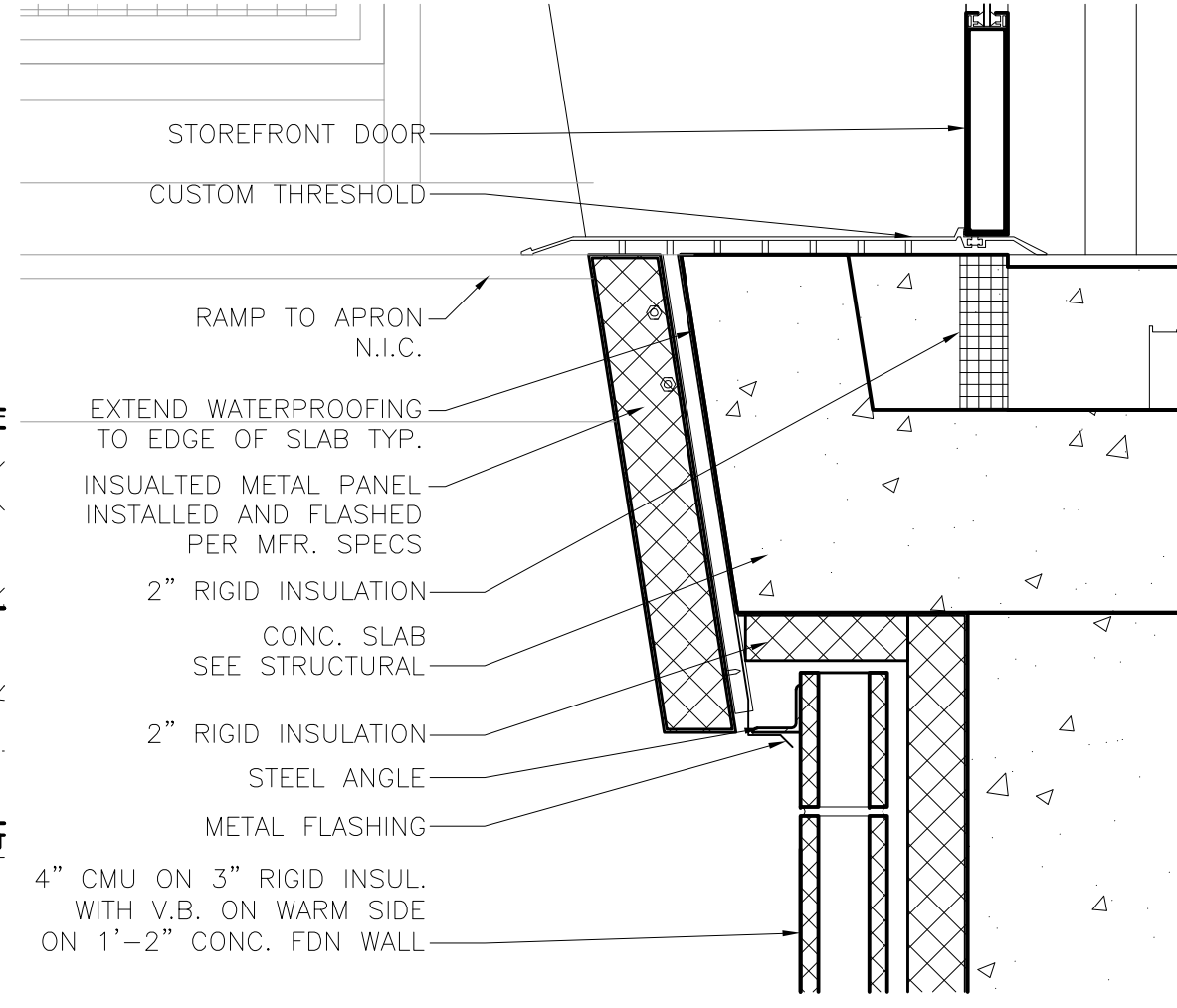
1 DETAIL @ VESTIBULE TRENCH DRAIN
1 1/2" = 1'-0"



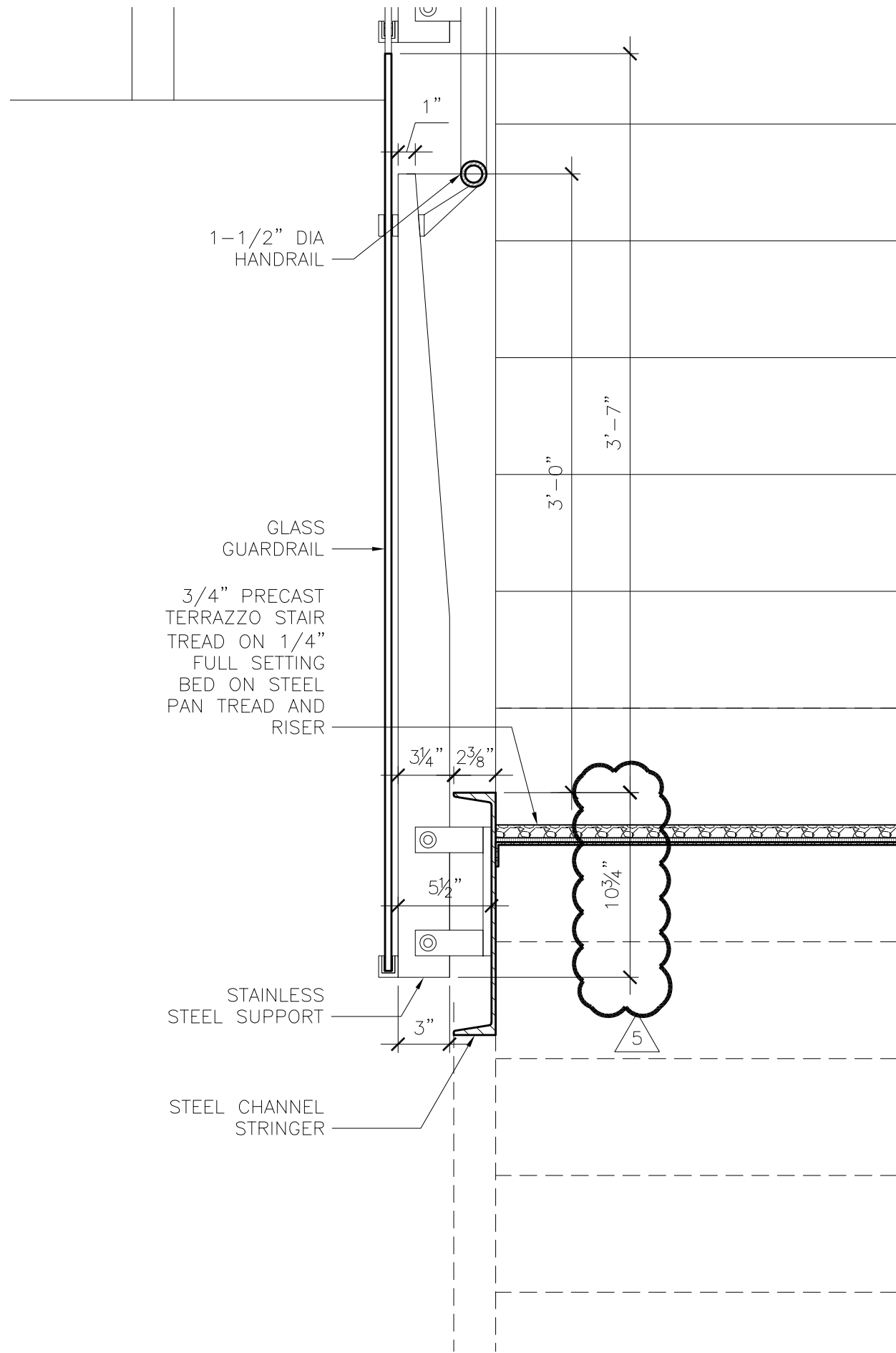
2 DETAIL @ TUG TUNNEL TRENCH DRAIN
1 1/2" = 1'-0"



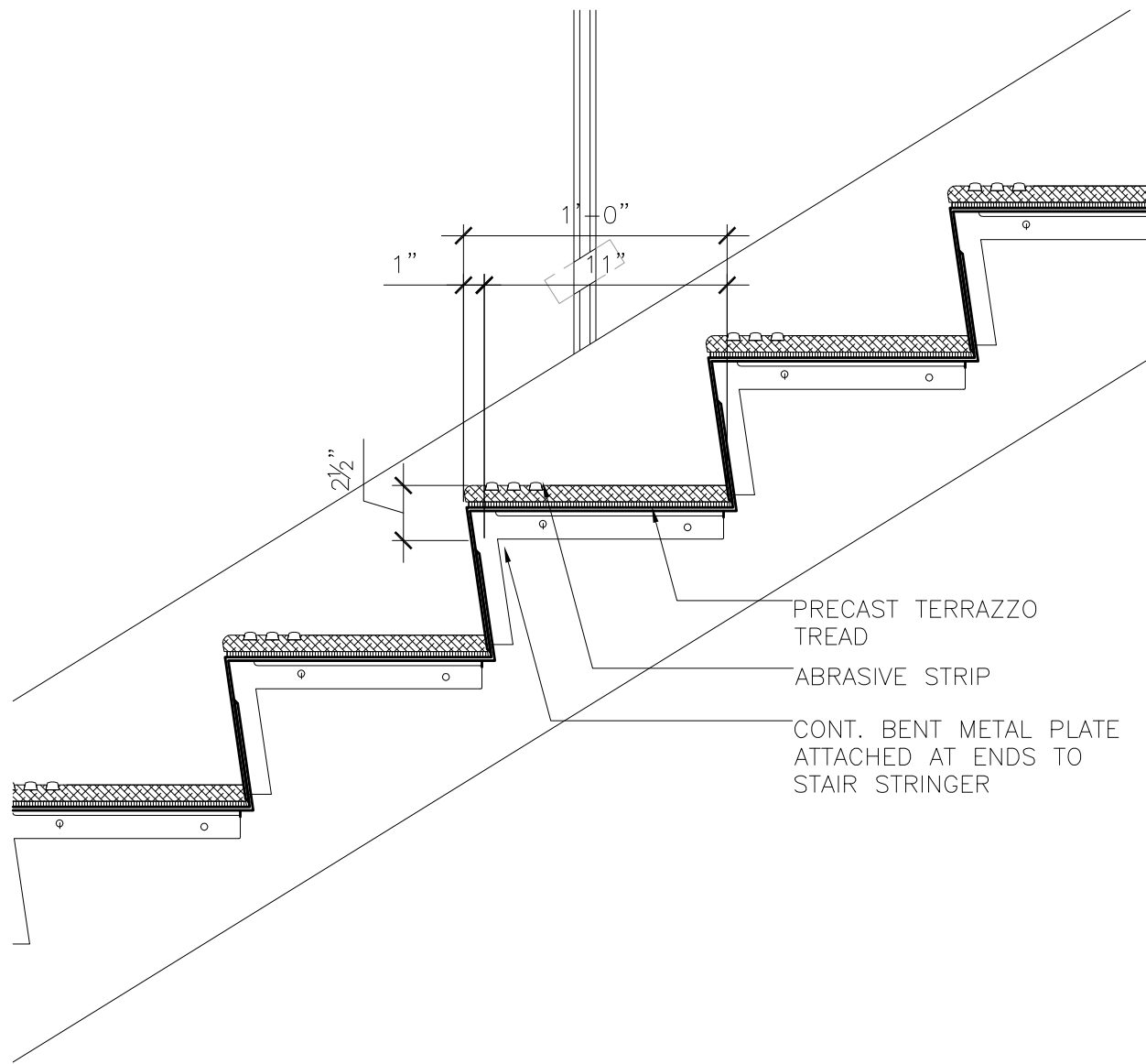
3 DETAIL @ DOOR PORTAL
1 1/2" = 1'-0"



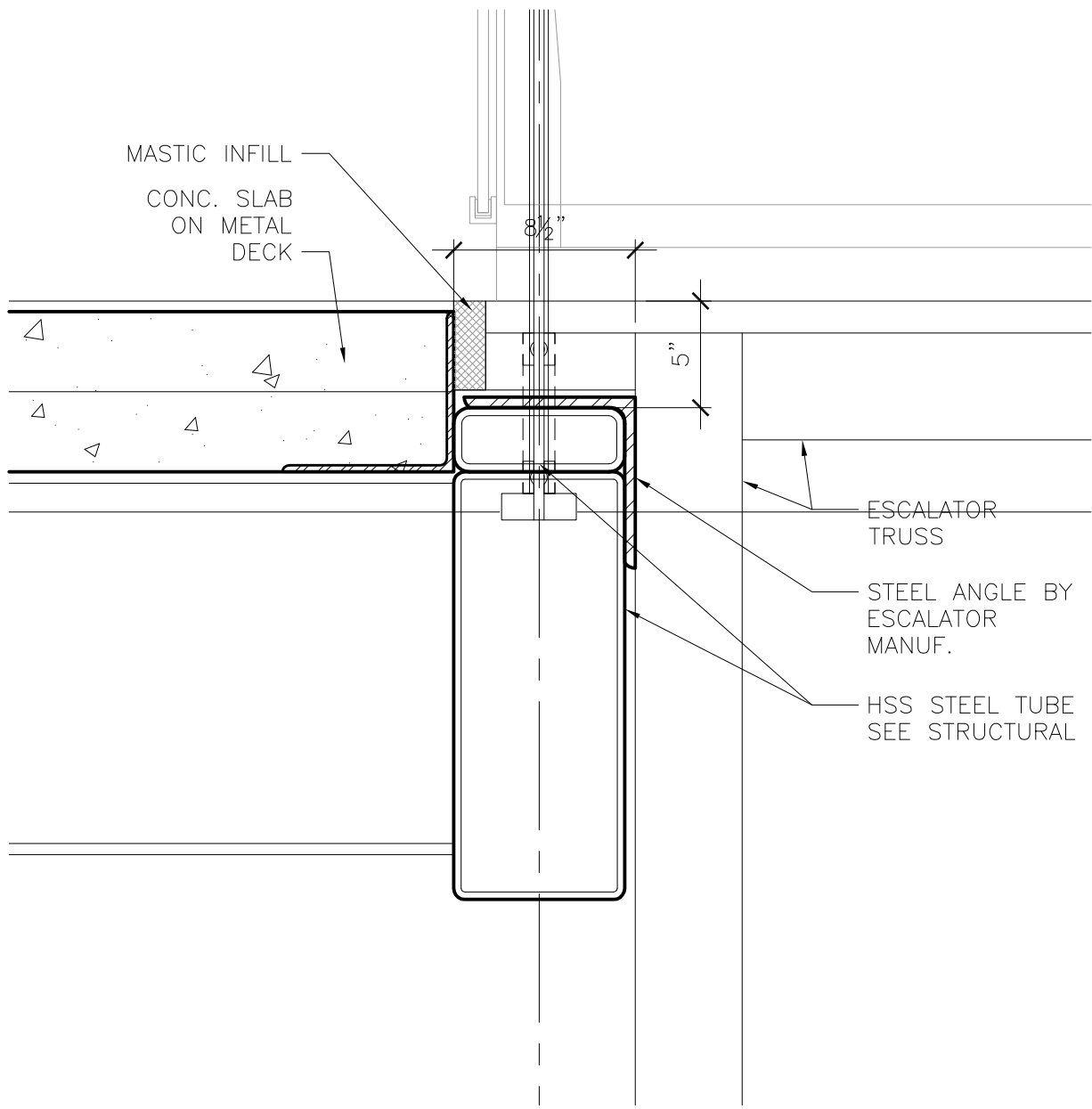
4 DETAIL @ DOOR PORTAL
1 1/2" = 1'-0"



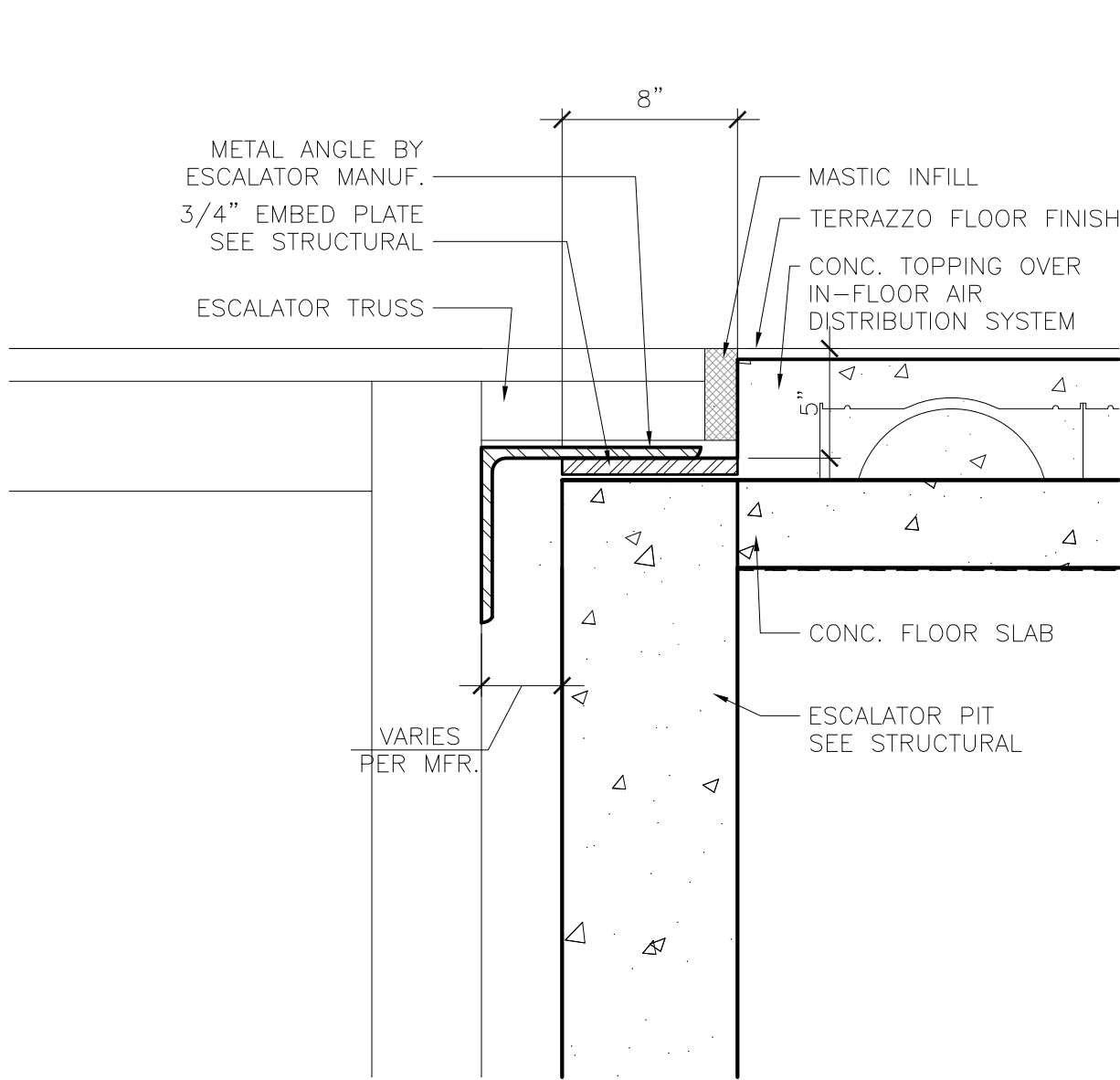
10 STAIR STRINGER DETAIL
1 1/2" = 1'-0"



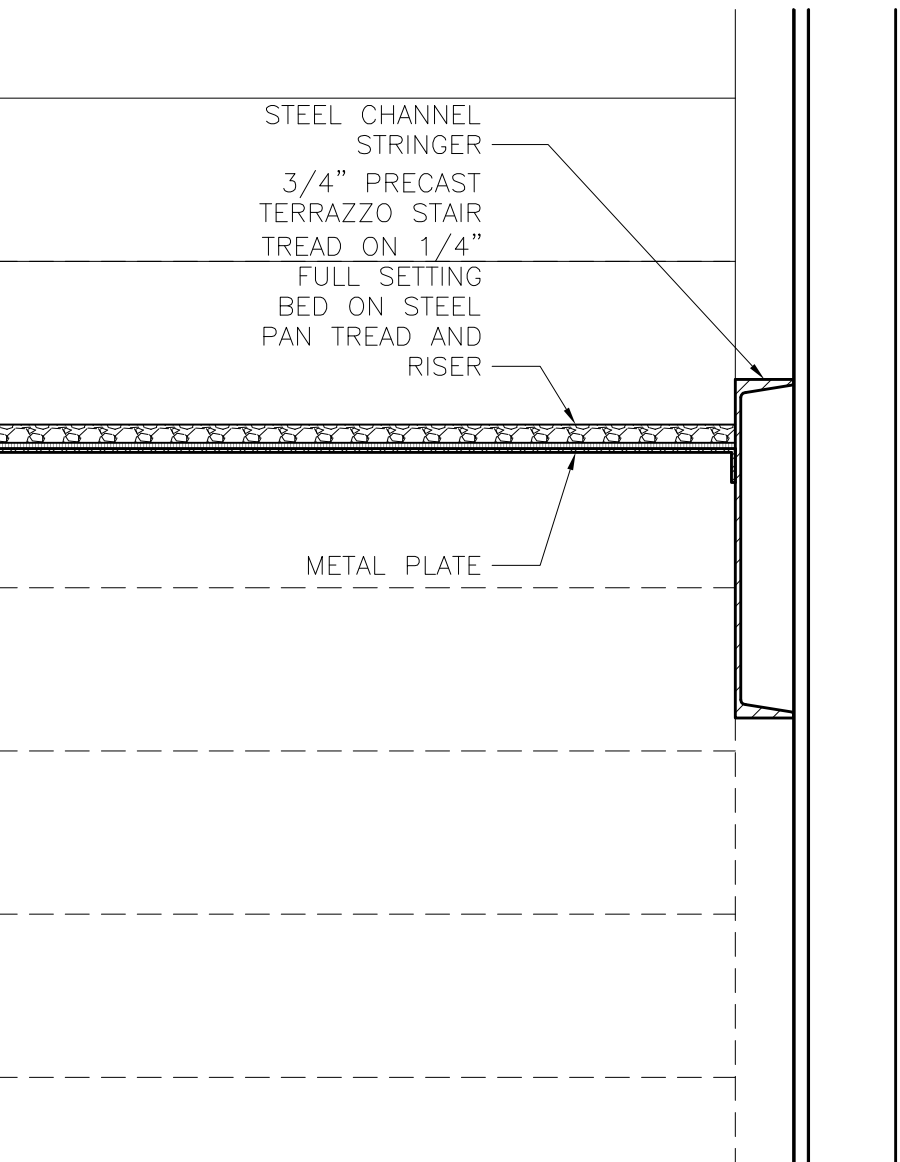
11 TYP. TERRAZZO TREAD
1 1/2" = 1'-0"



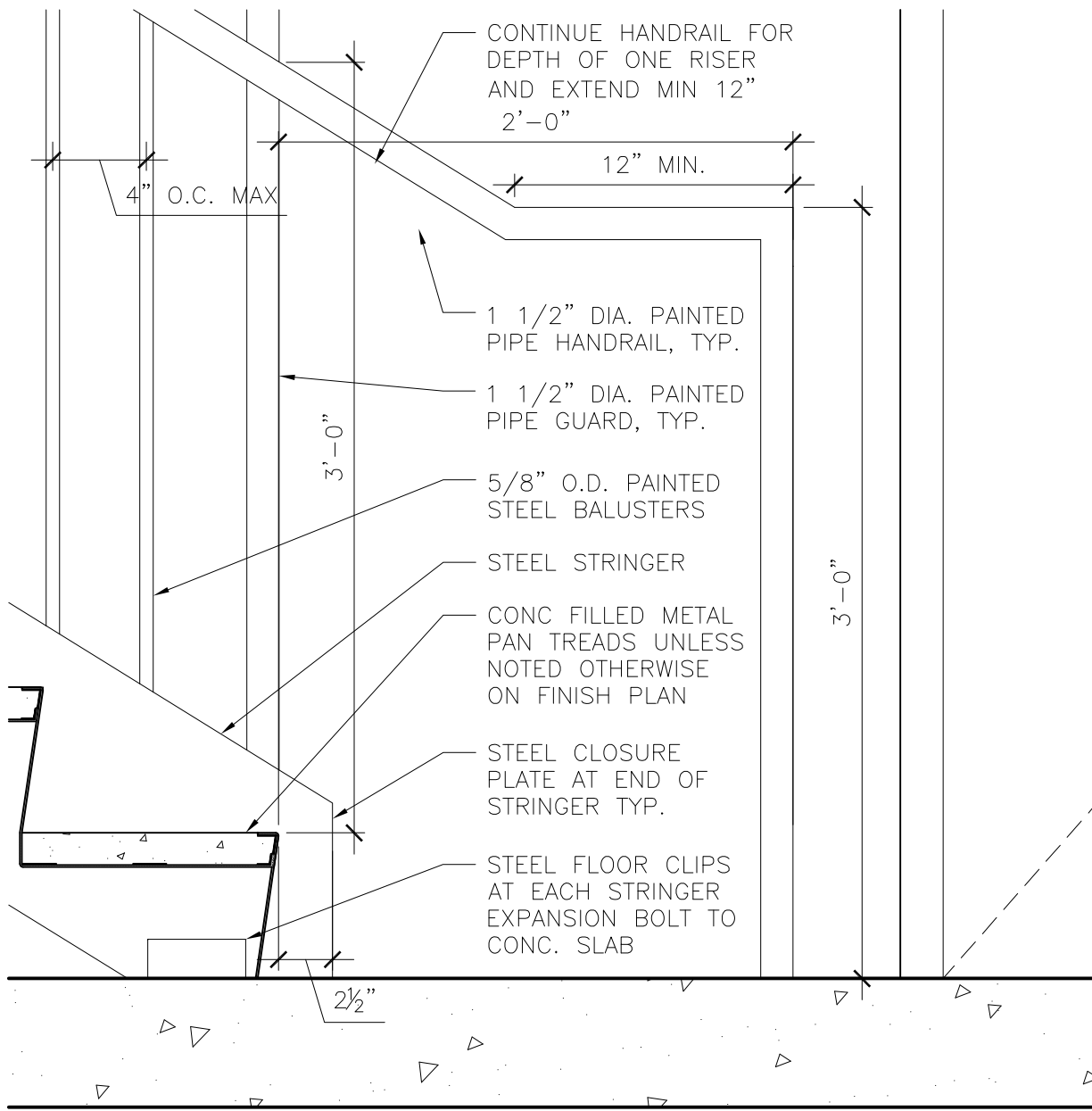
7 ESCALATOR TOP SUPPORT DETAIL
1 1/2" = 1'-0"



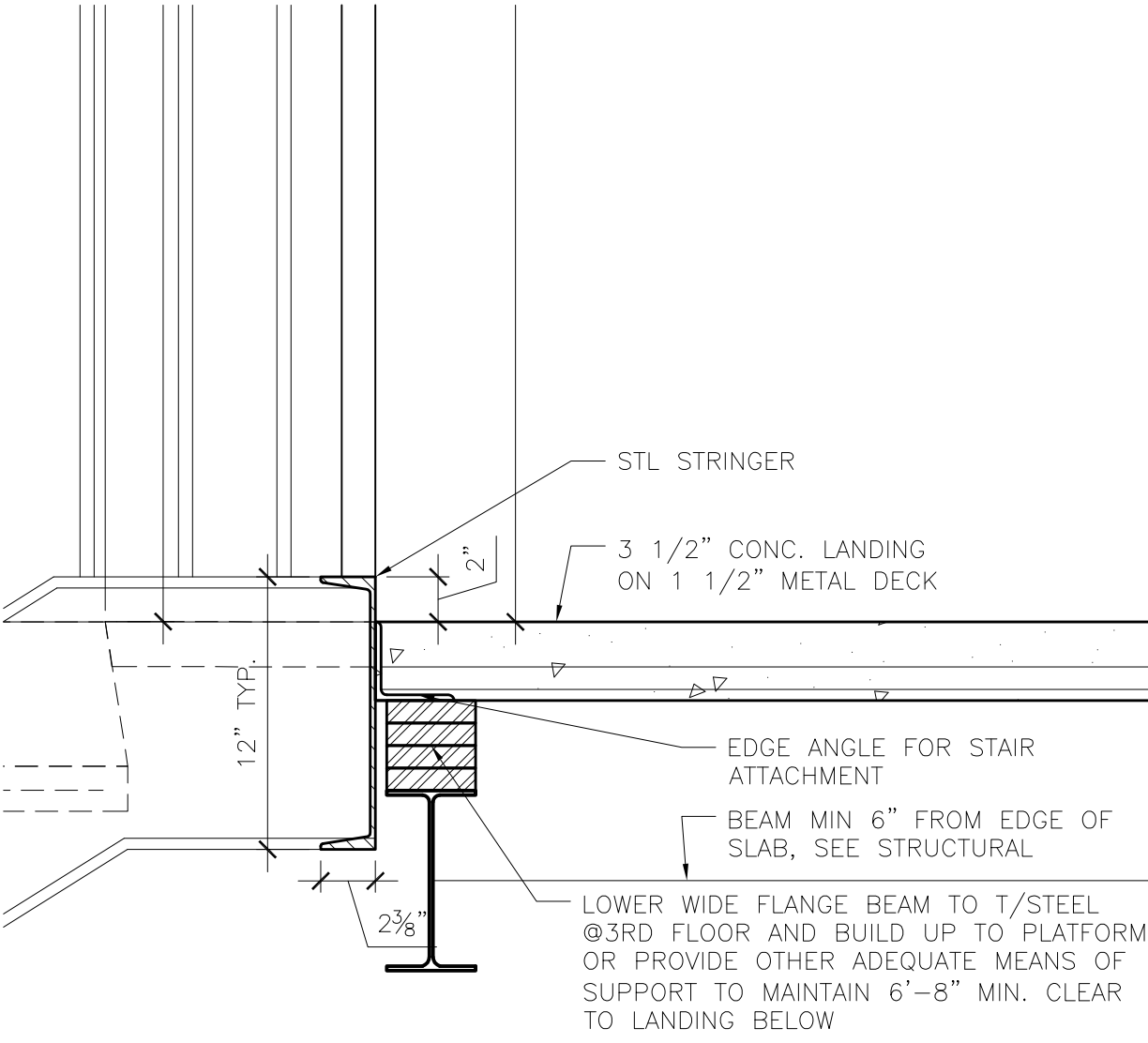
8 ESCALATOR BOTTOM SUPPORT DETAIL
1 1/2" = 1'-0"



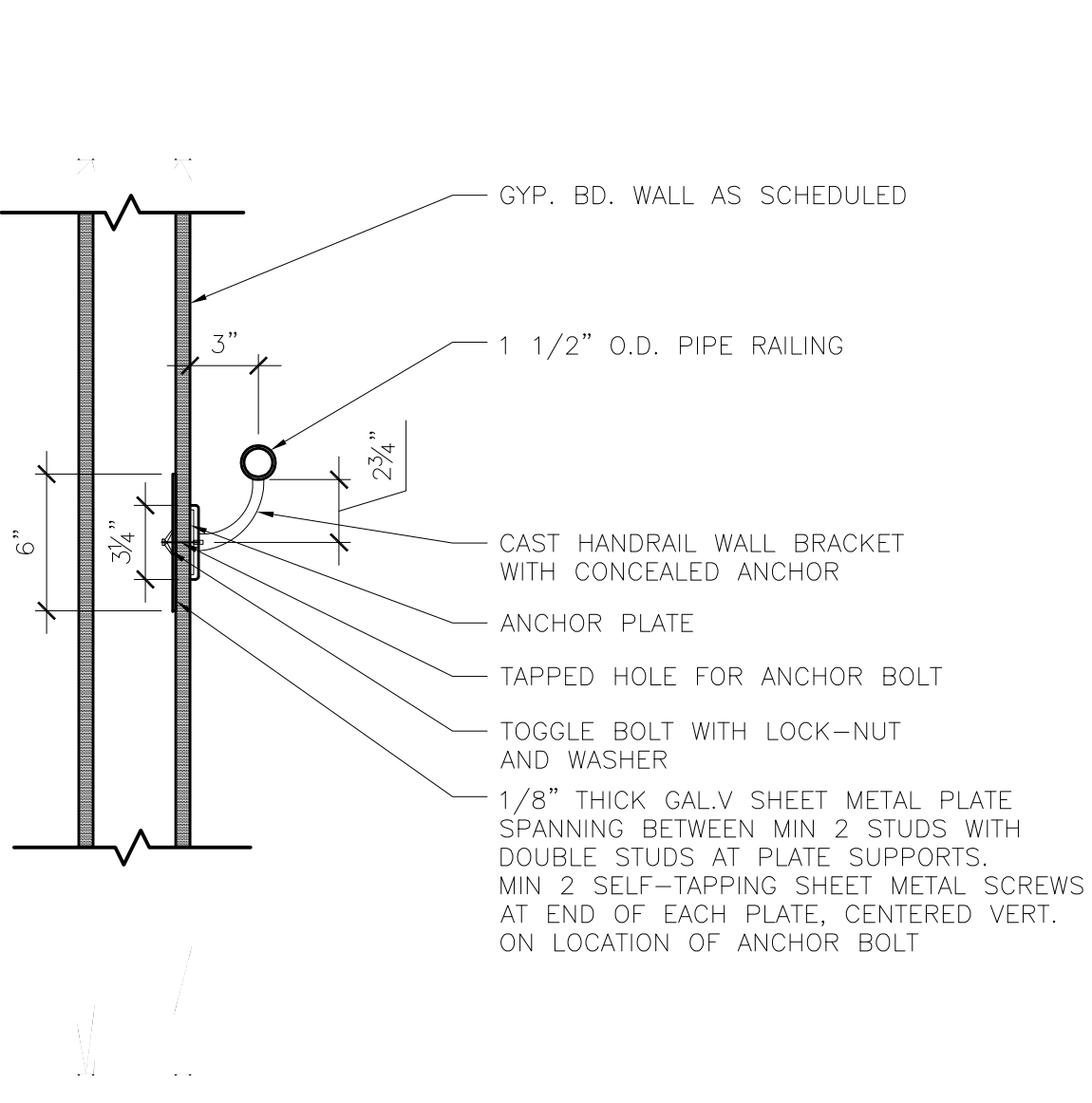
9 STAIR STRINGER DETAIL
1 1/2" = 1'-0"



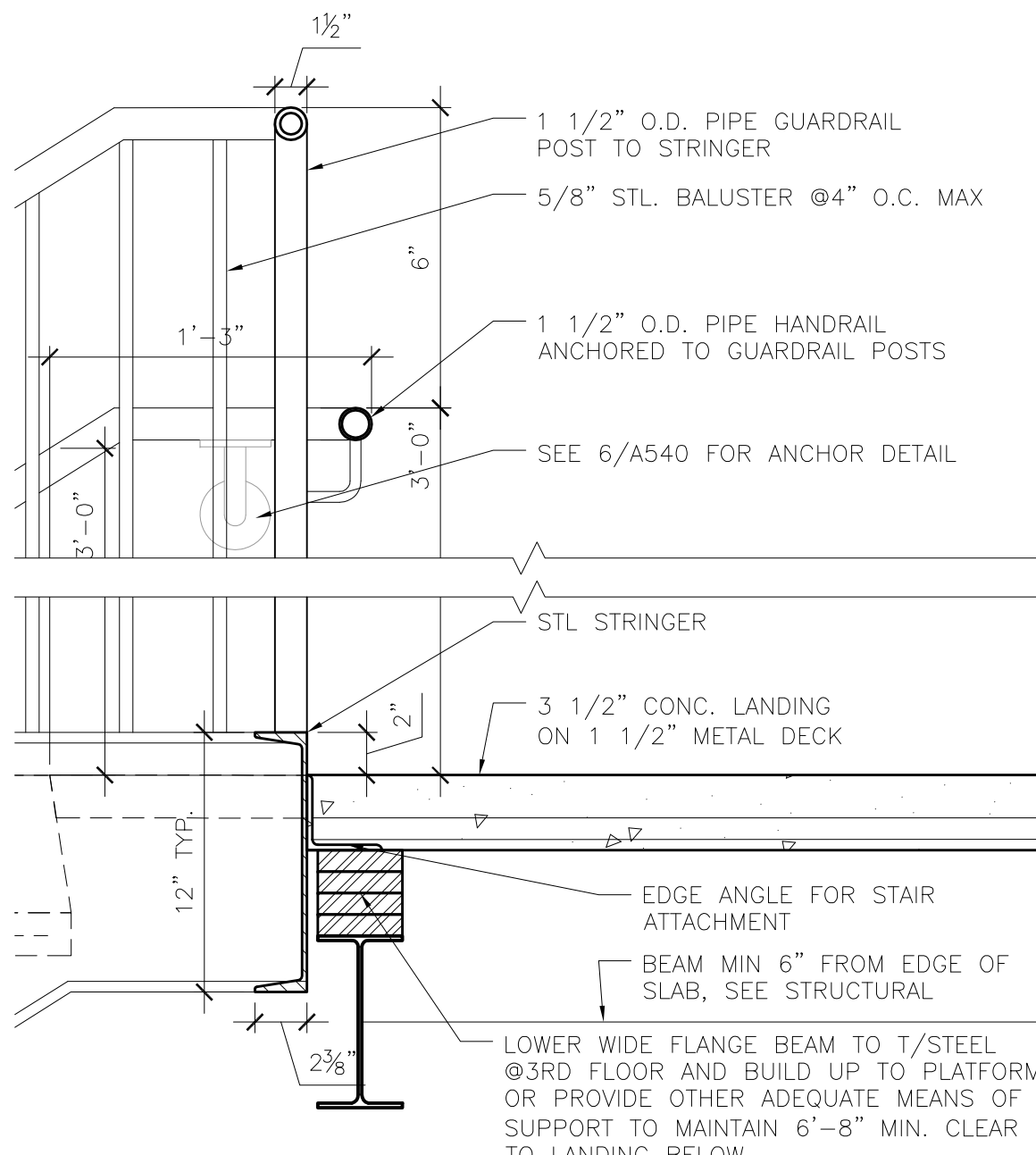
4 STAIR STRINGER @ FIRST LEVEL
1 1/2" = 1'-0"



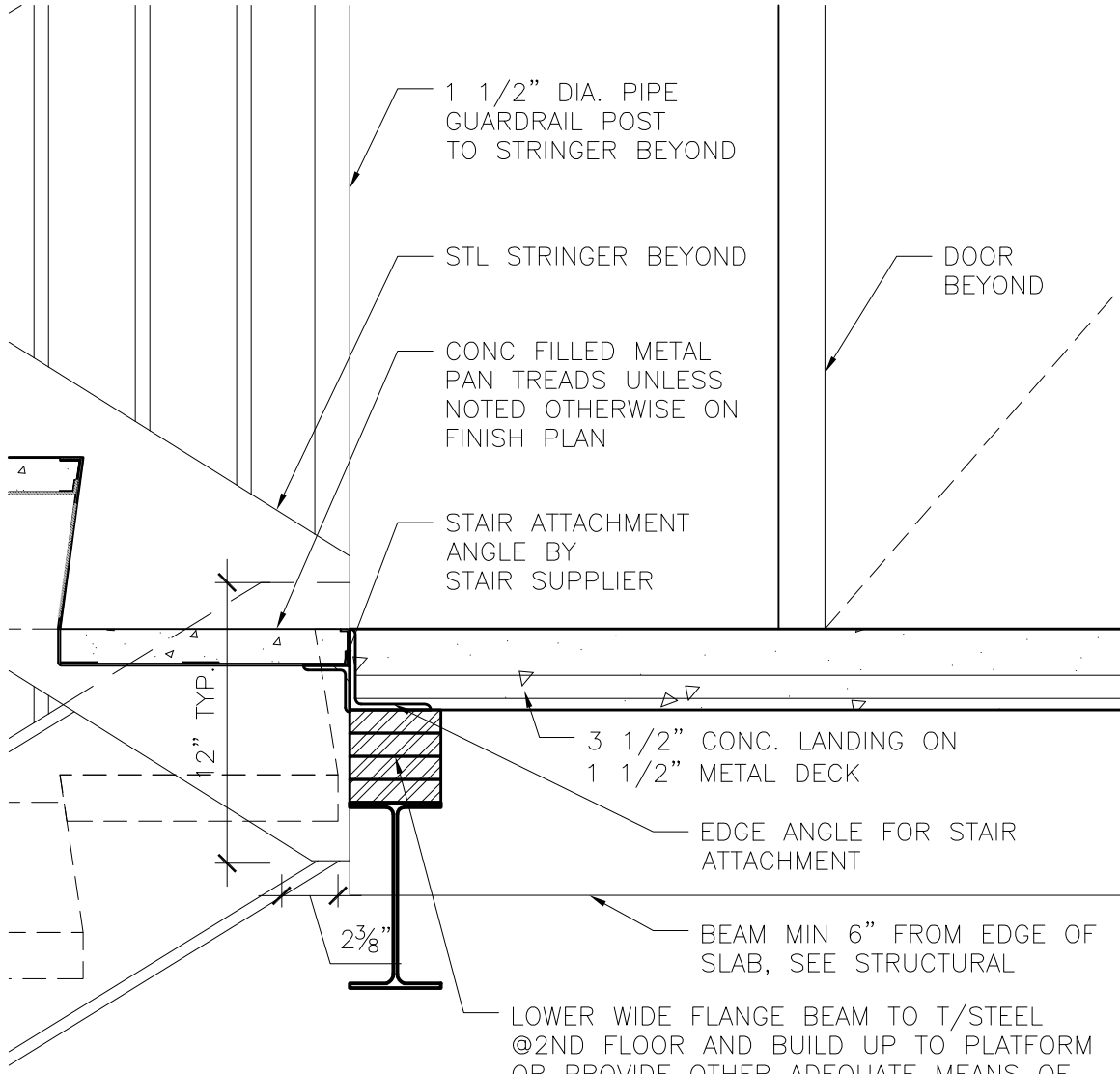
5 RAIL TERMINATION DETAIL
1 1/2" = 1'-0"



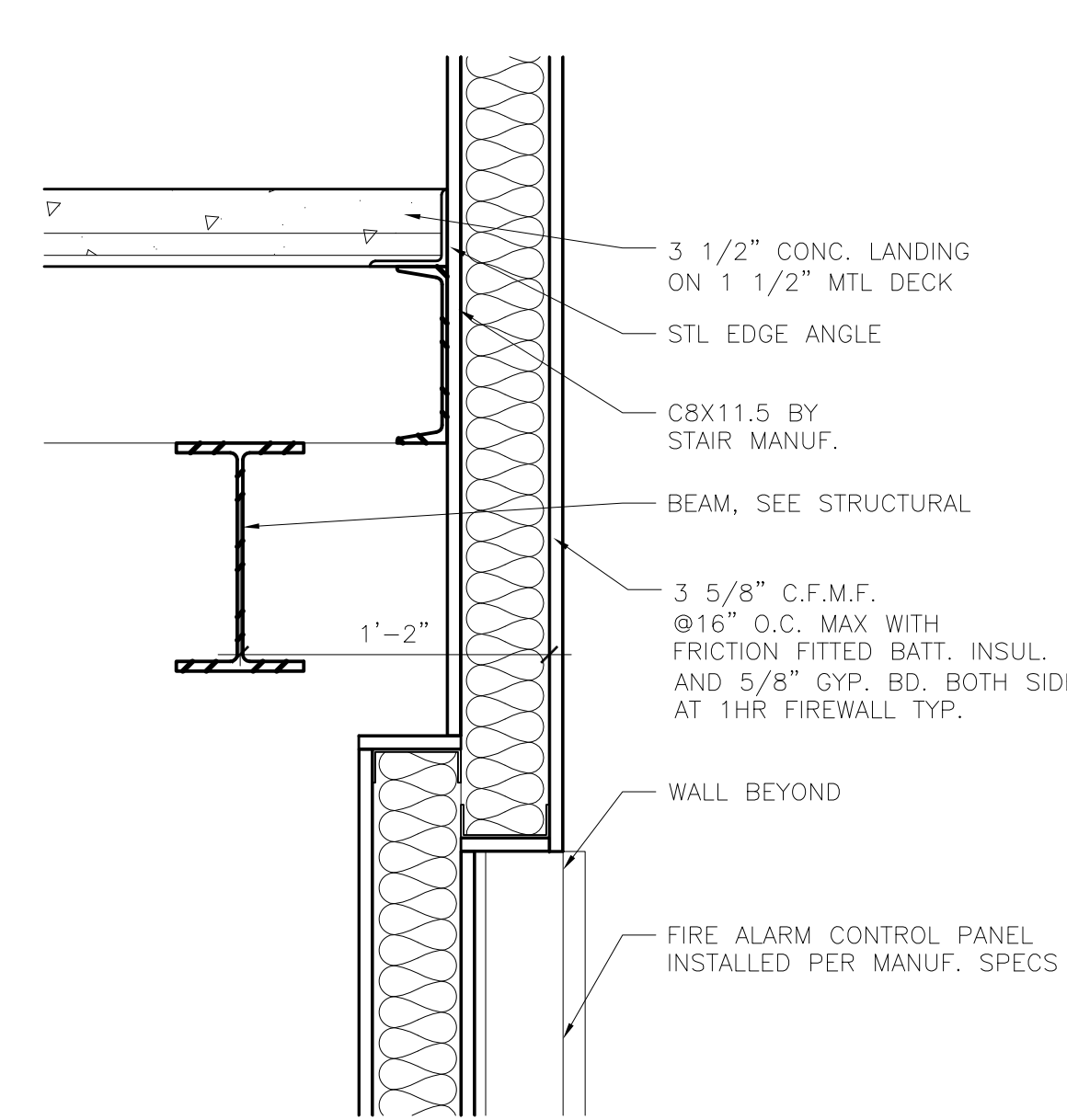
6 HANDRAIL DETAIL AT GYP. BD.
1 1/2" = 1'-0"



1 DETAIL AT TOP LANDING
1 1/2" = 1'-0"



2 DETAIL AT INTERMEDIATE LANDING
1 1/2" = 1'-0"



3 DETAIL AT FIRE ALARM ALCOVE
1 1/2" = 1'-0"

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REVISIONS		
NO.	ADD DESCRIPTION	DATE
2,3	NOT CHANGED	
	CONFIRMANCE SET	7.12.10
	BUILDING PERMIT	8.16.10
4	BUILDING PERMIT REVISIONS	11.12.10
	100% REVIEW	12.15.10
	BID PACKAGE 2A	1.24.11
	BP2A CONFIRMANCE SET	5.2.11
	BID PACKAGE 2B REVIEW	7.5.11
	BID PACKAGE 2B	8.23.11
5	BP2B ADDENDUM 2	9.13.11

DATE ISSUED: 09-15-11

REVIEWED BY: TC

DRAWN BY: MKG/MKI

DESIGNED BY: TC

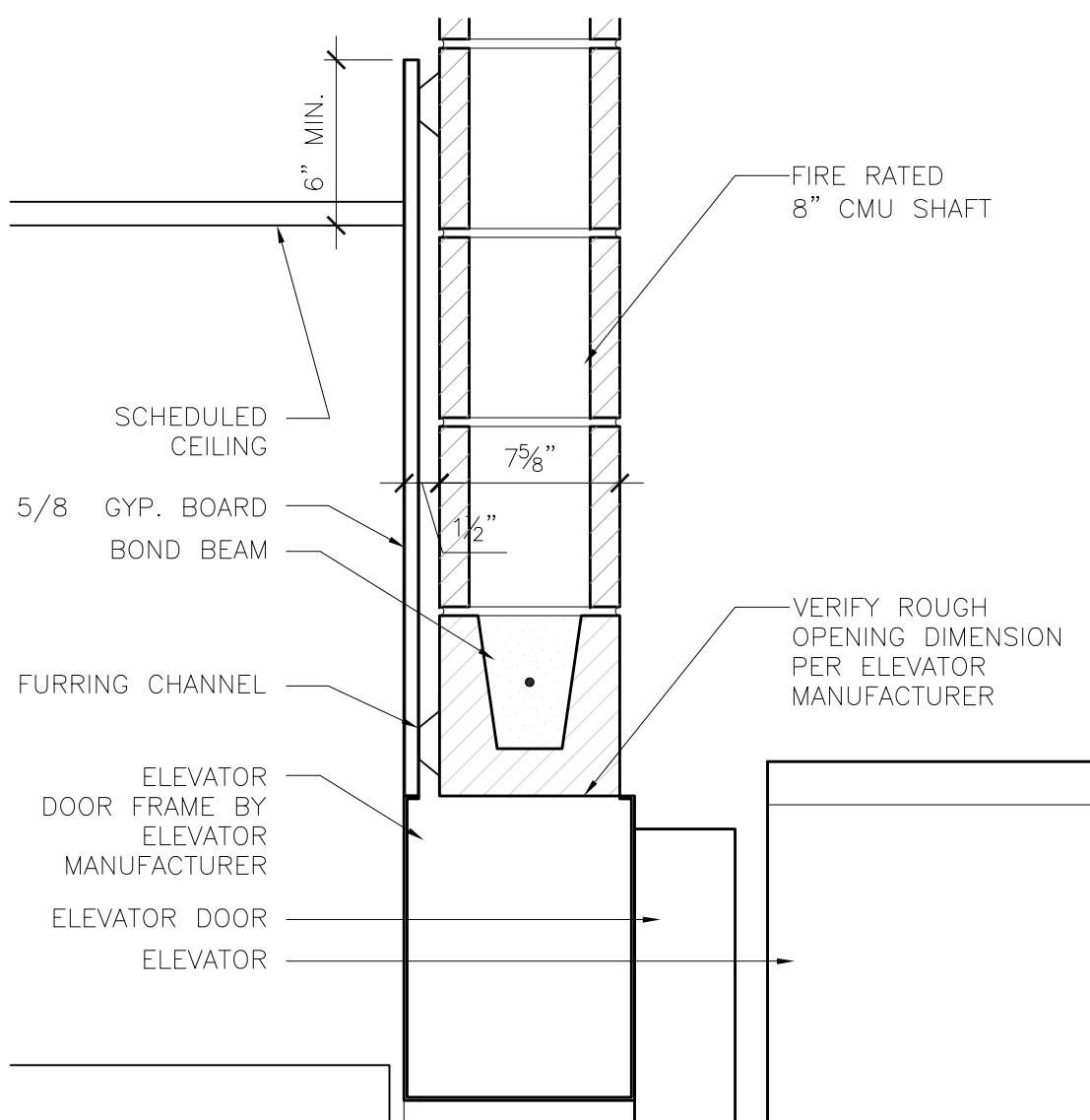
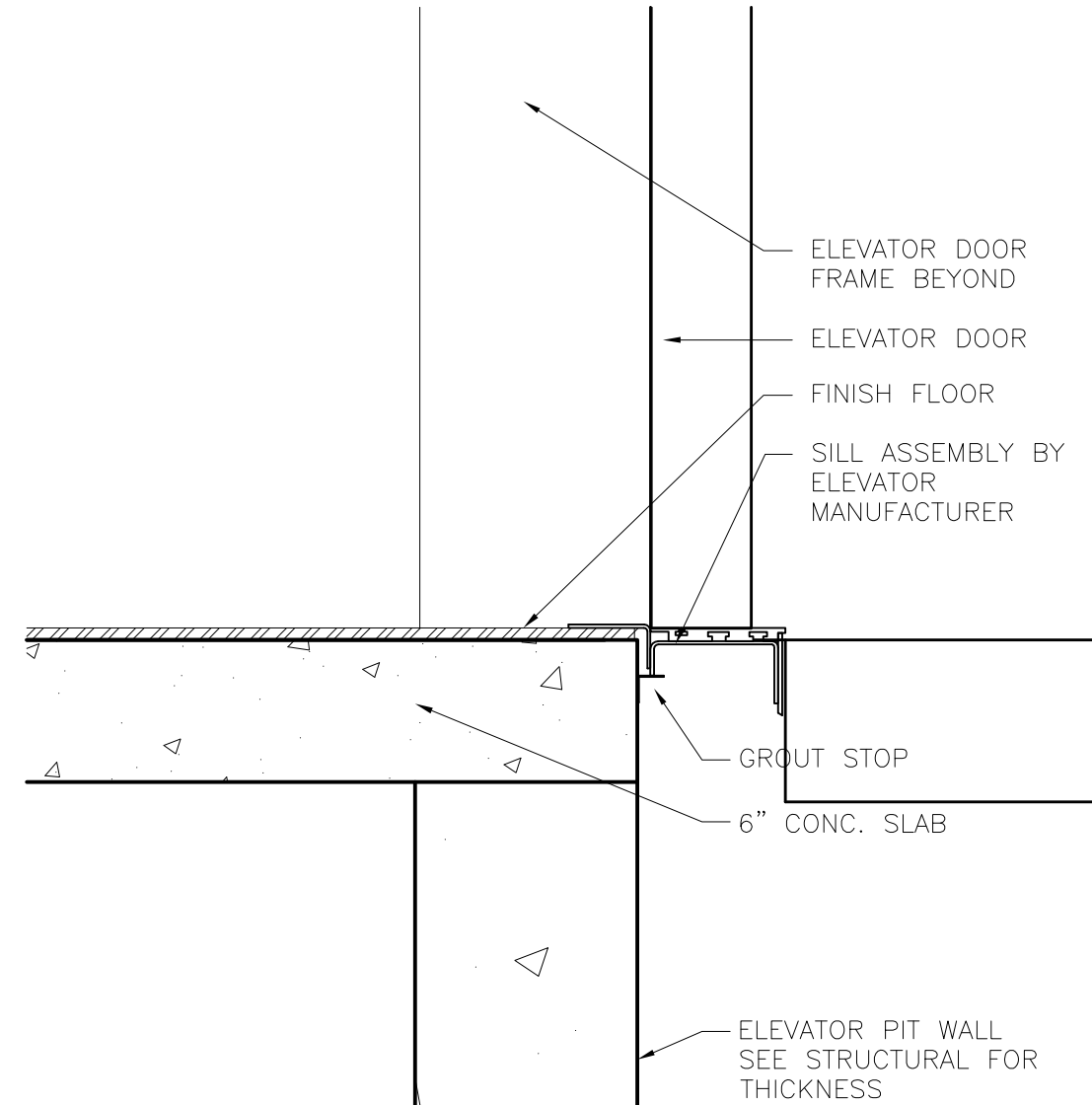
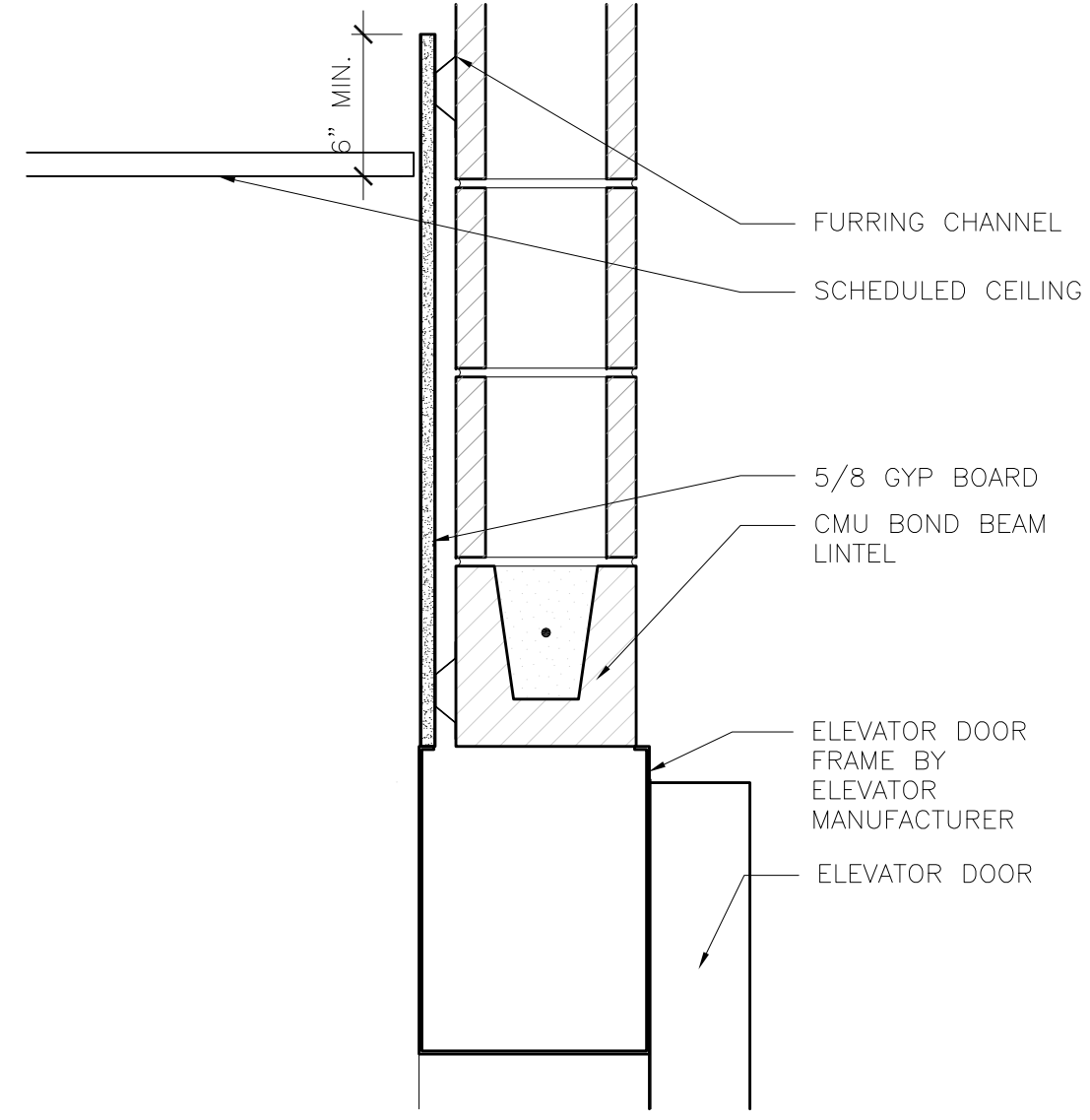
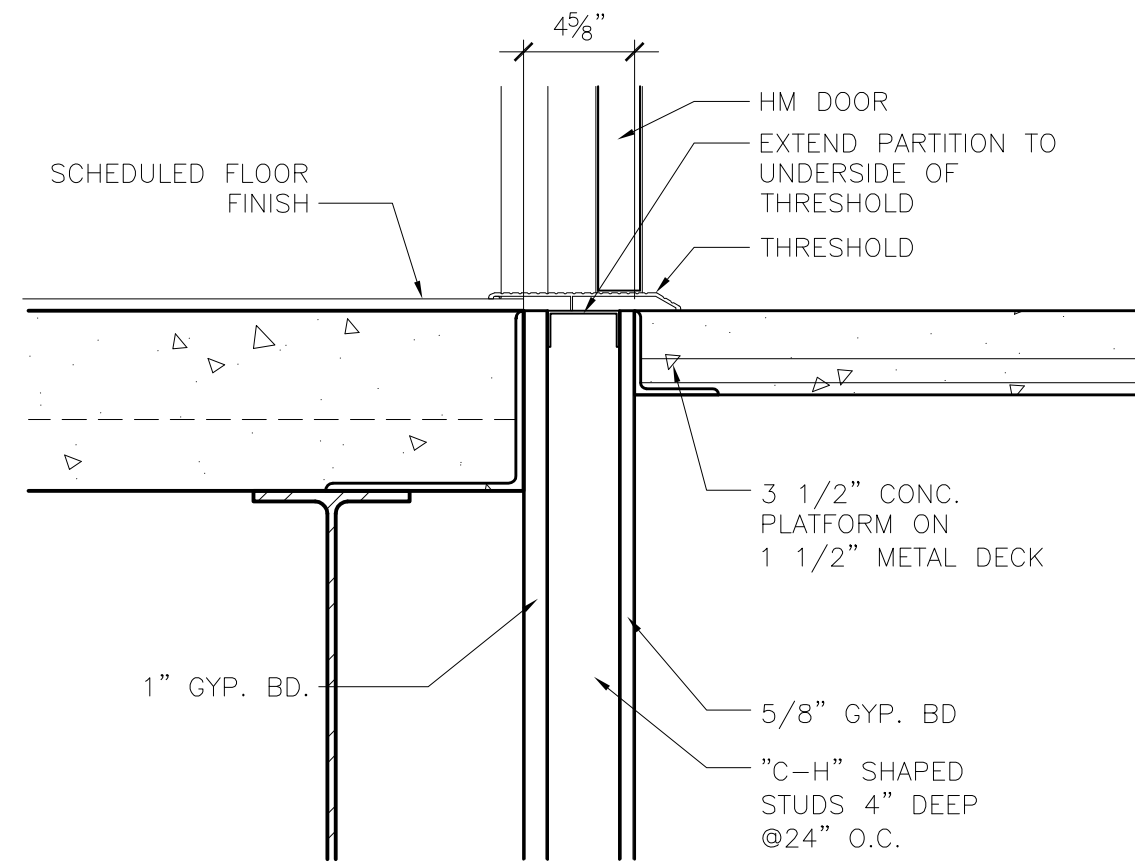
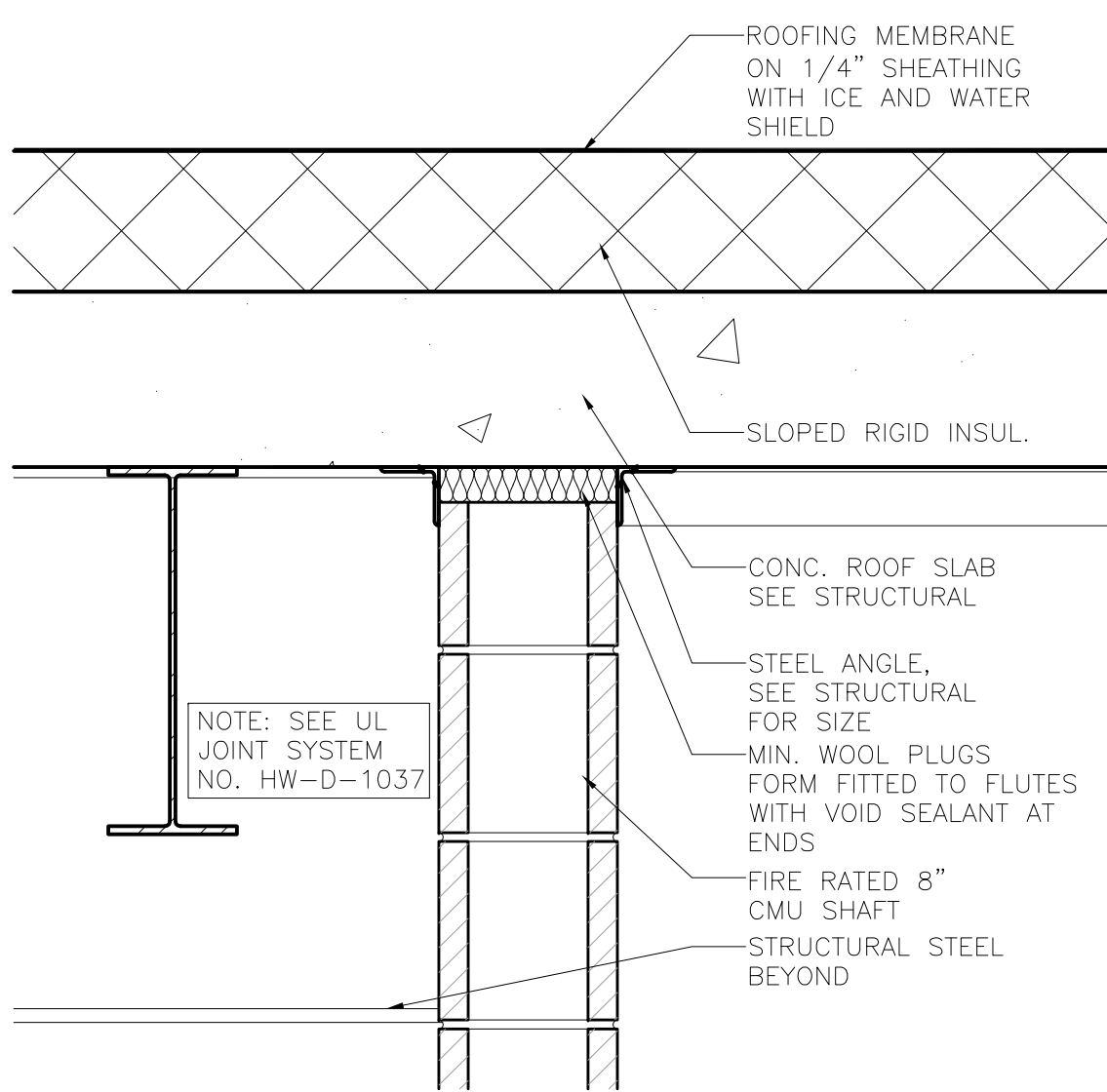
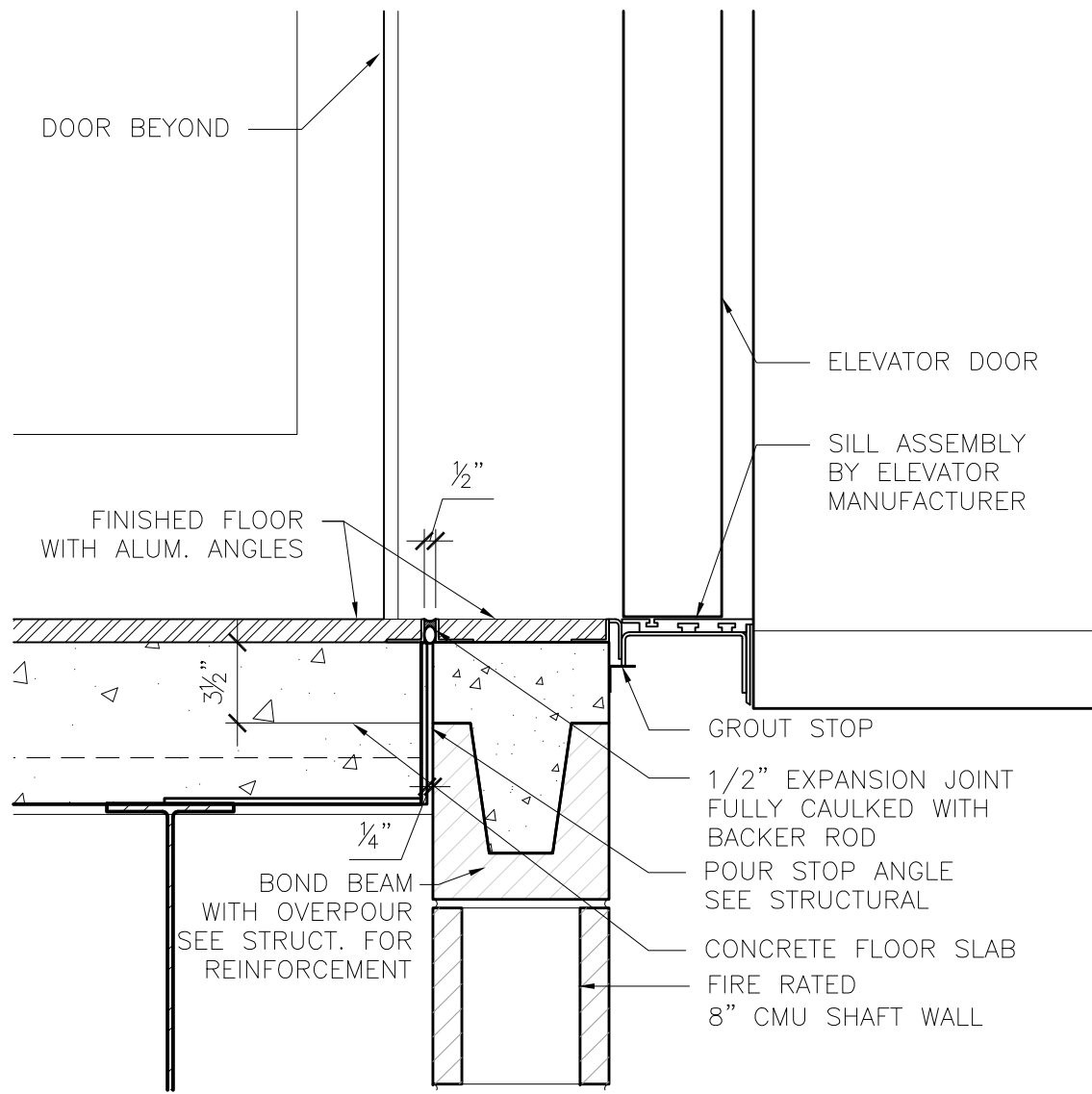
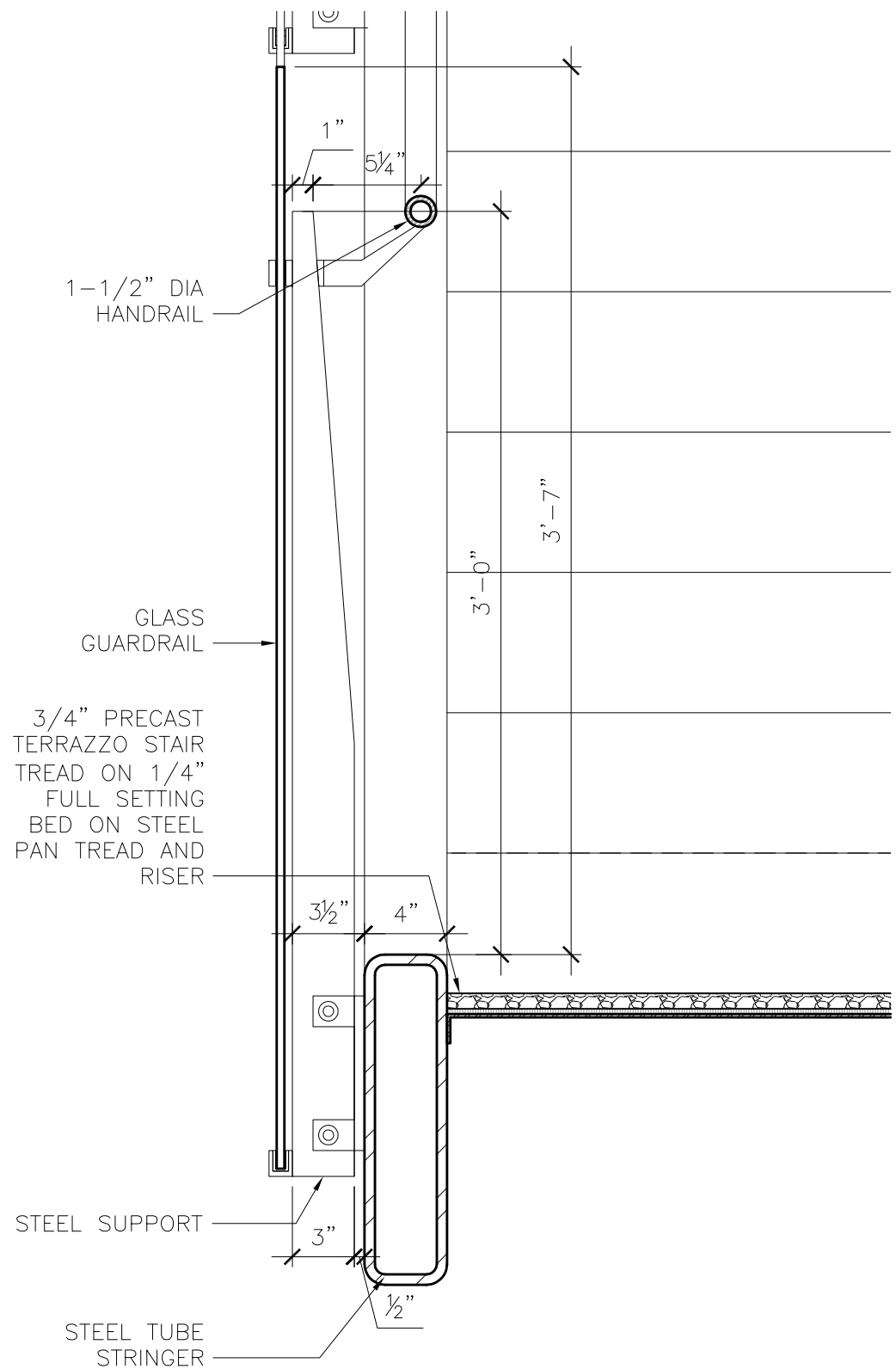
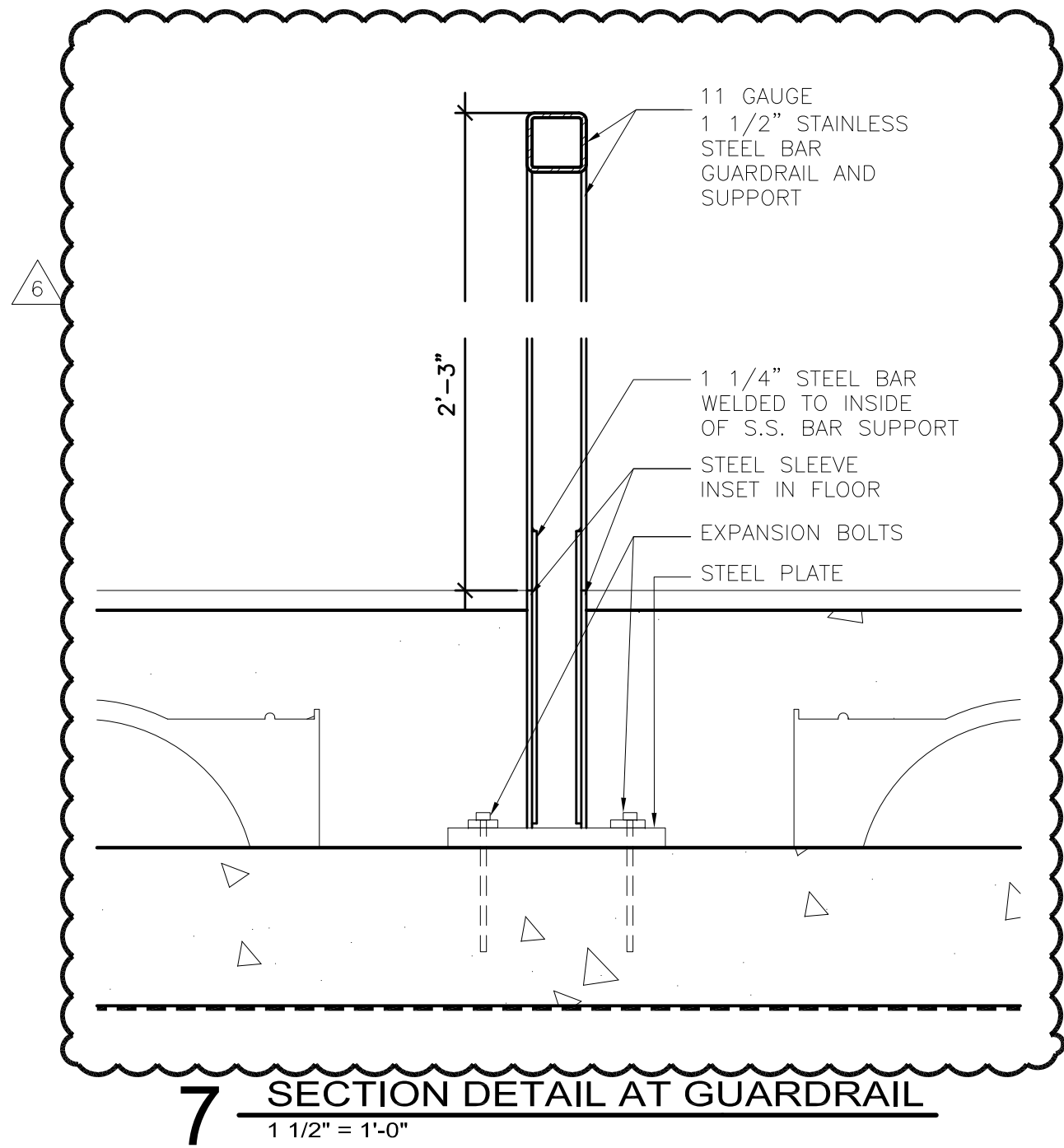
AEP PROJECT NUMBER
213-1882-091
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SHEET TITLE
**VERTICAL
CIRCULATION
DETAILS**

SHEET NUMBER

A540

**BID PACKAGE 2B
ADDENDUM 2**



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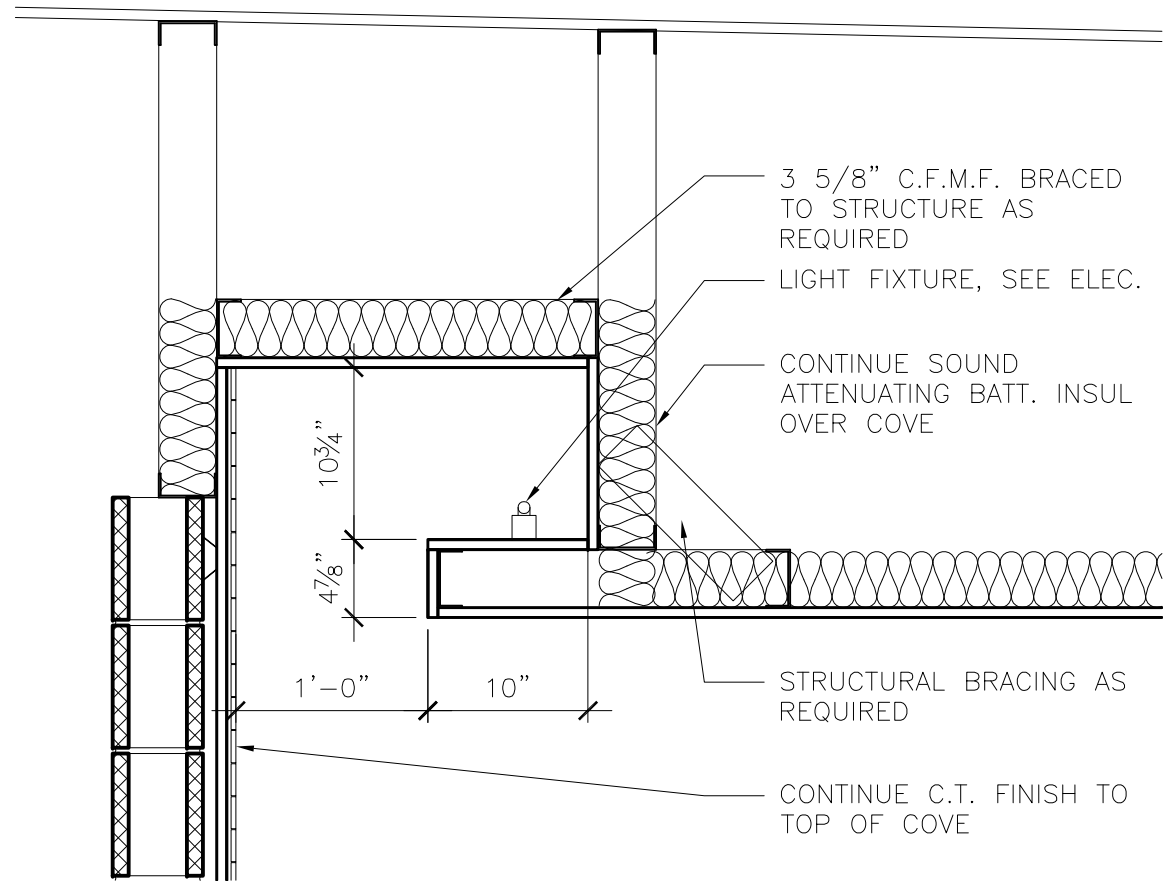
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**VERTICAL
CIRCULATION
DETAILS**

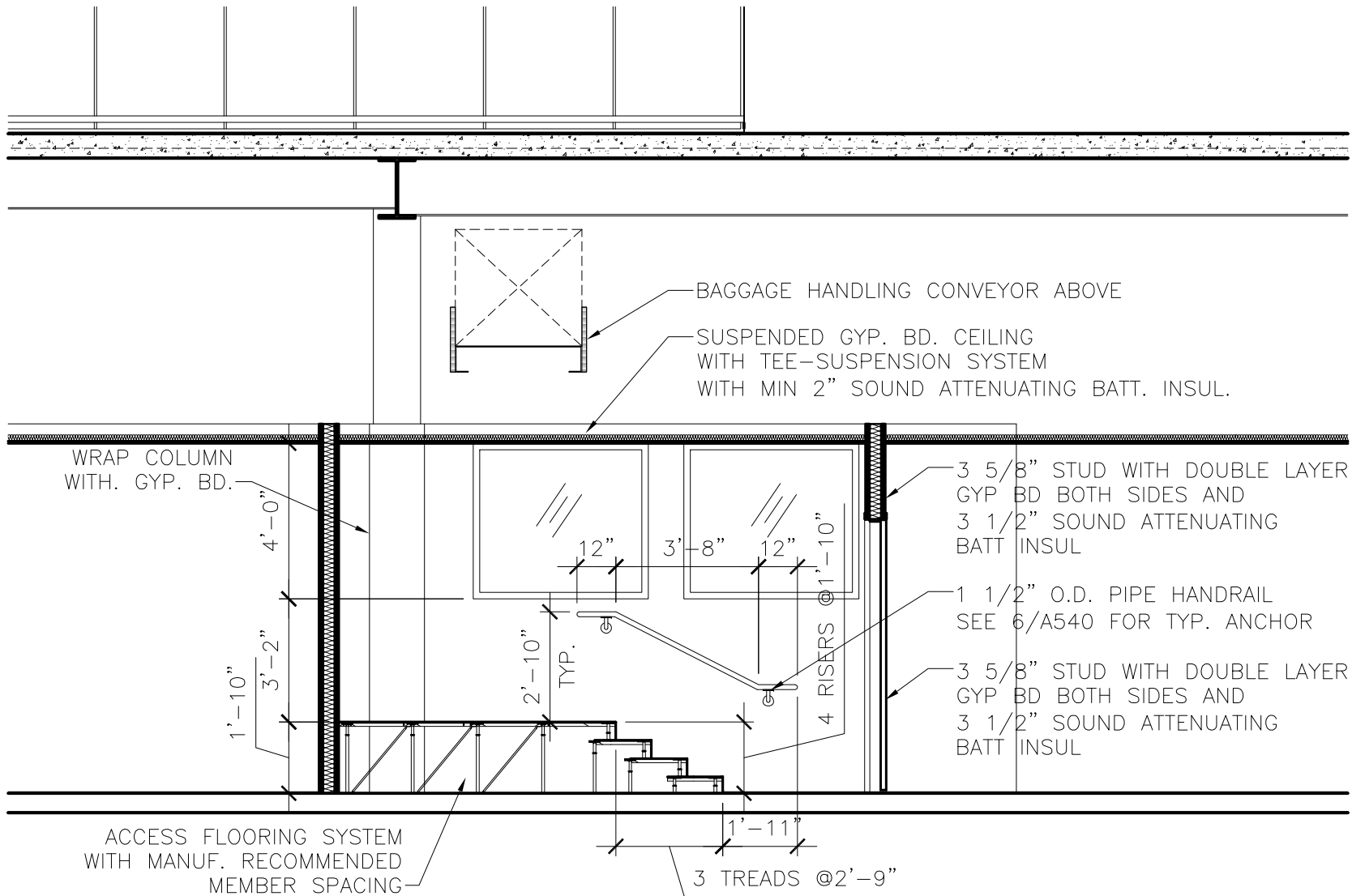
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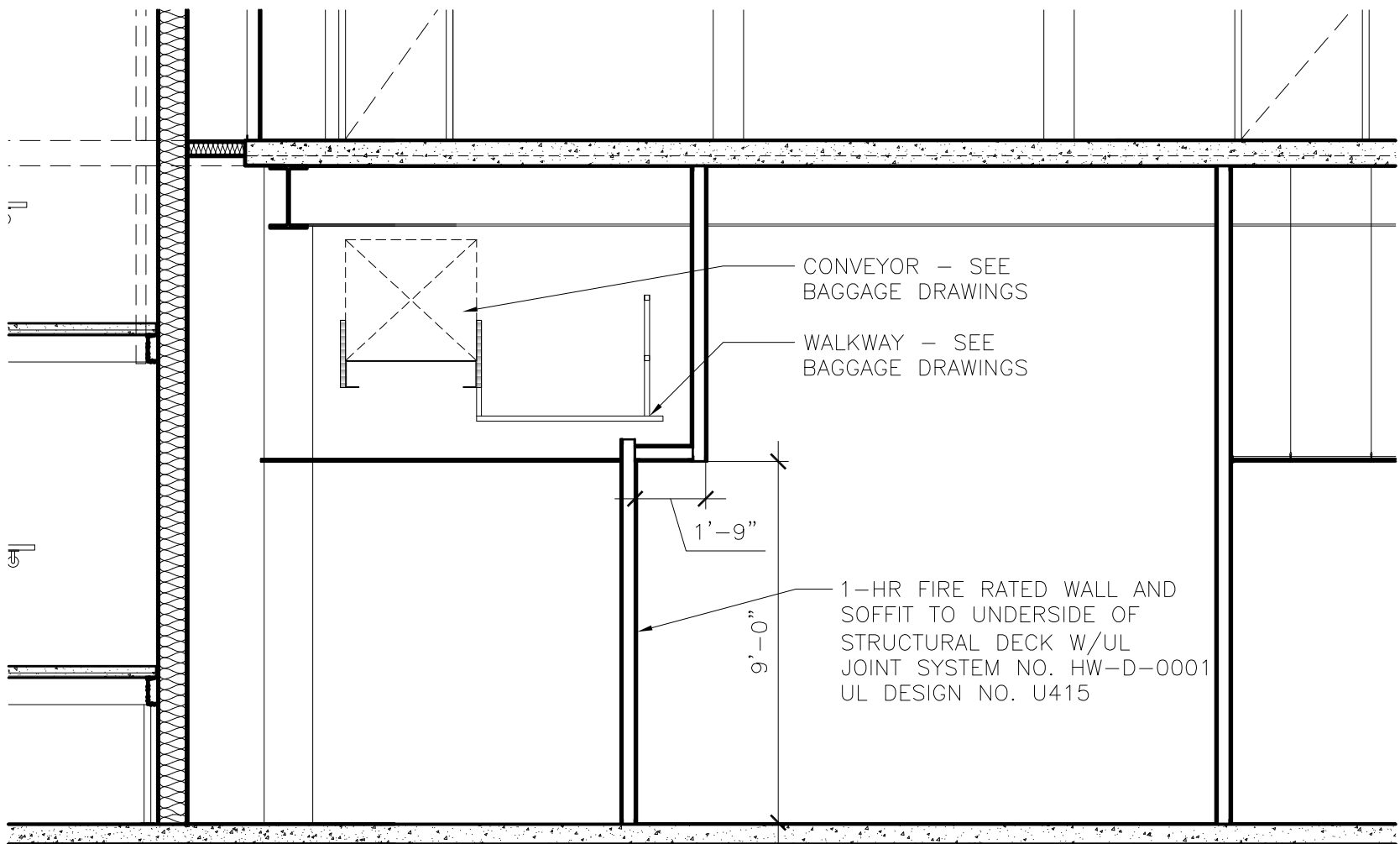
**BID PACKAGE 2B
ADDENDUM 2**



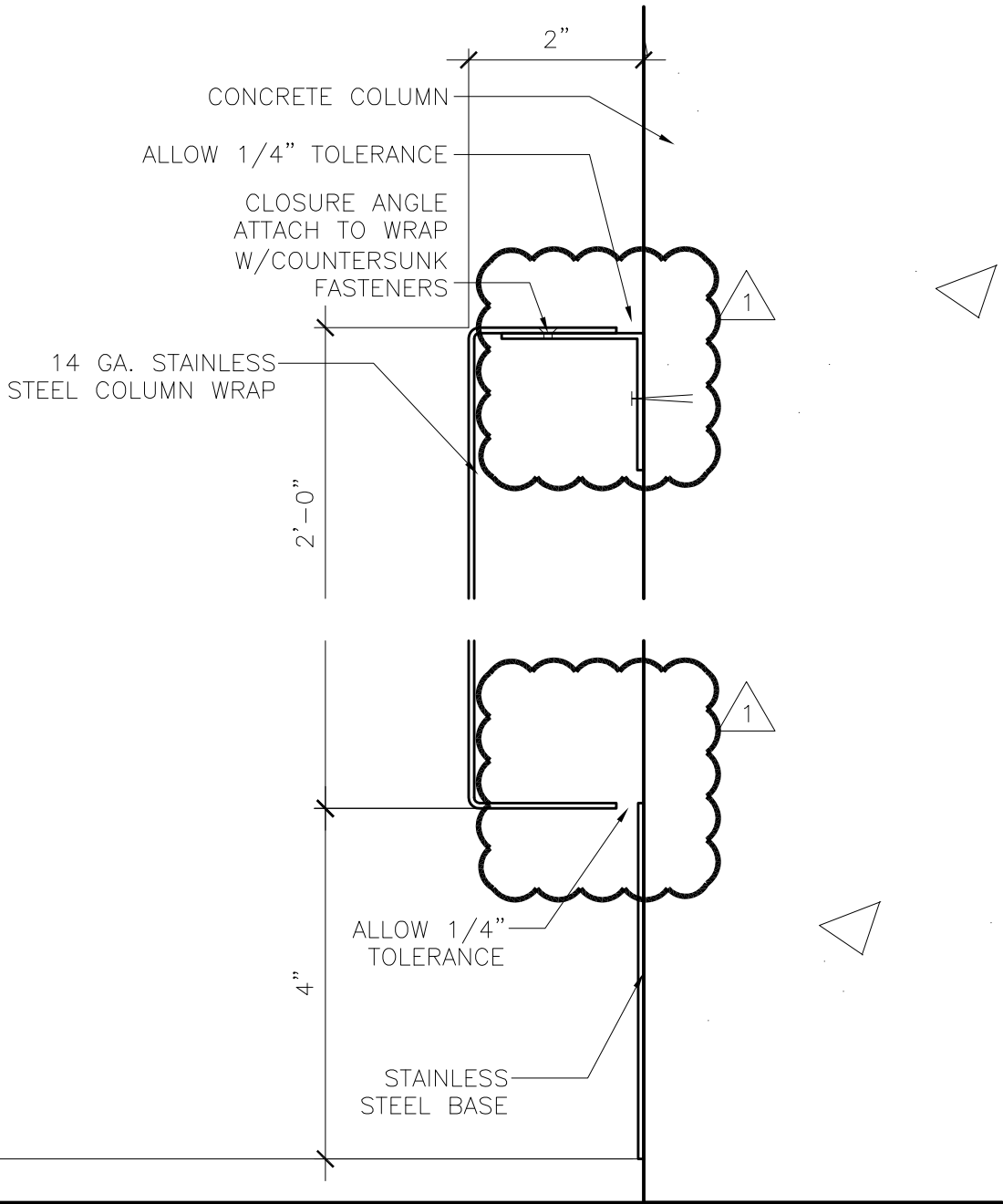
4 TYPICAL SECTION AT COVE LIGHT
1" = 1'-0"



1 SECTION AT RM 163 ACCESS FLOOR STAIR
1/4" = 1'-0"



2 SECTION AT RM 149 FIRE RATED SOFFIT
1/4" = 1'-0"



3 SECTION DETAIL AT COLUMN COVER
6" = 1'-0"



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Baggage Handling Systems Consultants:
BNP ASSOCIATES INC.
101 East Ridge Office Park, Suite 103, Danbury CT 06810
TEL: (203) 792-3000 / FAX: (203) 792-4900

Landscaping Consultants:
APPOLD DESIGN
2432 East First Street, Duluth MN 55812
TEL: (218) 591-5079

ARCHITECTURAL CERTIFICATION
I hereby certify that the architectural plans, specifications or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Architect under the laws of the State of Minnesota.

Print Name: Mark Ip

Signature:

Date: 06-03-10 Reg. No.: 46001

REVISIONS		
NO.	DESCRIPTION	DATE
100%	REVIEW	12.15.10
	BID PACKAGE 2A	1.24.11
	BP2A CONFORMANCE SET	5.2.11
	BID PACKAGE 2B REVIEW	7.6.11
	BID PACKAGE 2B	8.23.11
1	BP2B ADDENDUM 2	9.15.11

DATE ISSUED: 09-15-11
REVIEWED BY: TC
DRAWN BY: MK/MI
DESIGNED BY: TC

AEP PROJECT NUMBER
213-1882-091
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SHEET TITLE

MISC.
SECTION
DETAILS

SHEET NUMBER

A542

BID PACKAGE 2B
ADDENDUM 2

CONSULTANTS

Interior Architects:
SJA ARCHITECTS
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Date: 06-03-10 Reg. No.: 46001

REVISIONS

NO.	DESCRIPTION	DATE
1	FOUNDATION PERMIT	6.11.10
1,2,3	NOT CHANGED	
	BUILDING PERMIT	8.16.10
4	BUILDING PERMIT REVISIONS	11.12.10
	100% REVIEW	12.15.10
	BID PACKAGE 2A	1.24.11
	BP2A CONFORMANCE SET	5.2.11
	BID PACKAGE 2B REVIEW	7.6.11
	BID PACKAGE 2B	9.23.11
5	BP2B ADDENDUM 2	9.13.11

DATE ISSUED: 09-15-11

REVIEWED BY: SBS/TC

DRAWN BY: MI

DESIGNED BY: SBS/TC

AEP PROJECT NUMBER

213-1882-091

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SHEET TITLE

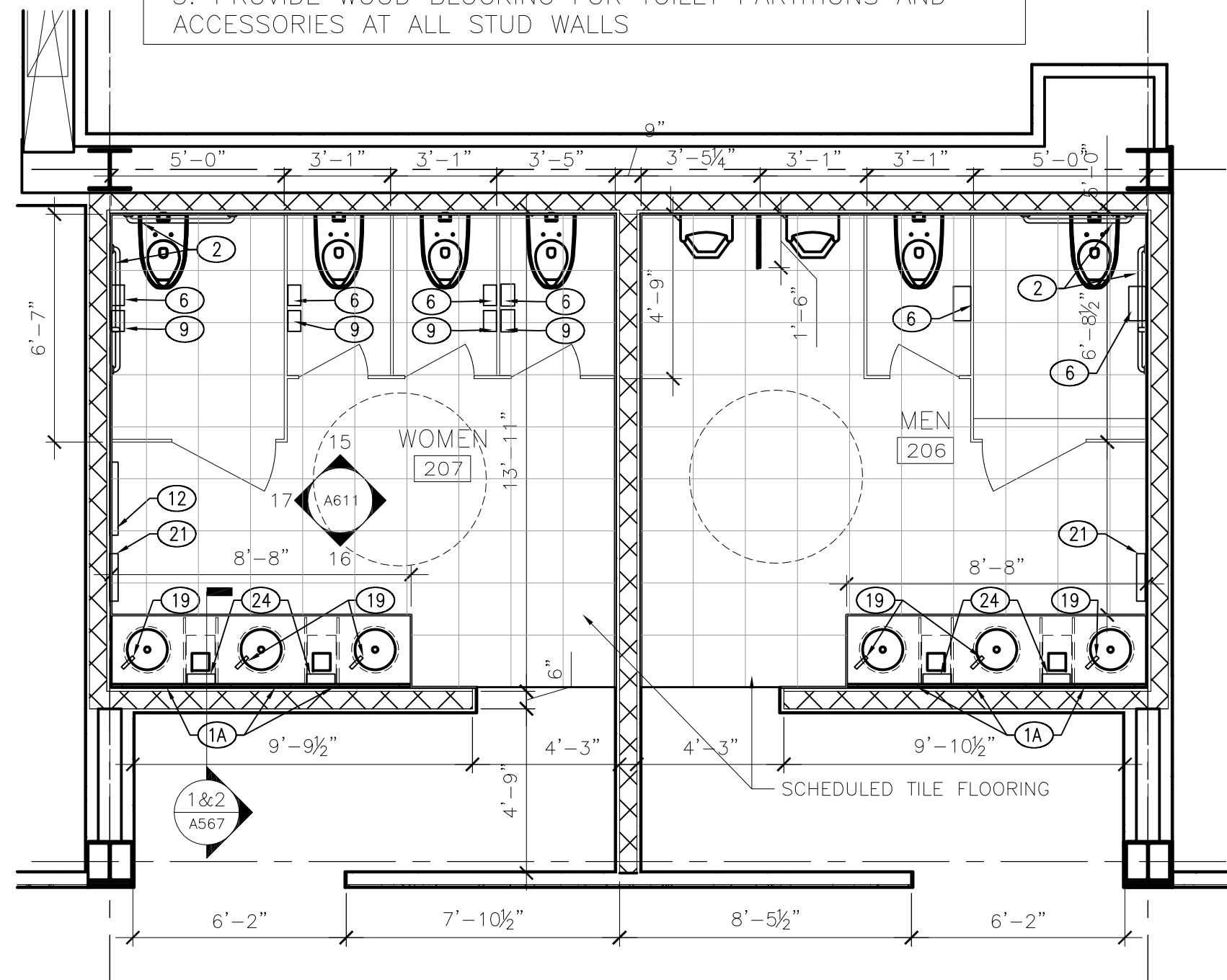
INTERIOR SYSTEMS
RESTROOMS

SHEET NUMBER

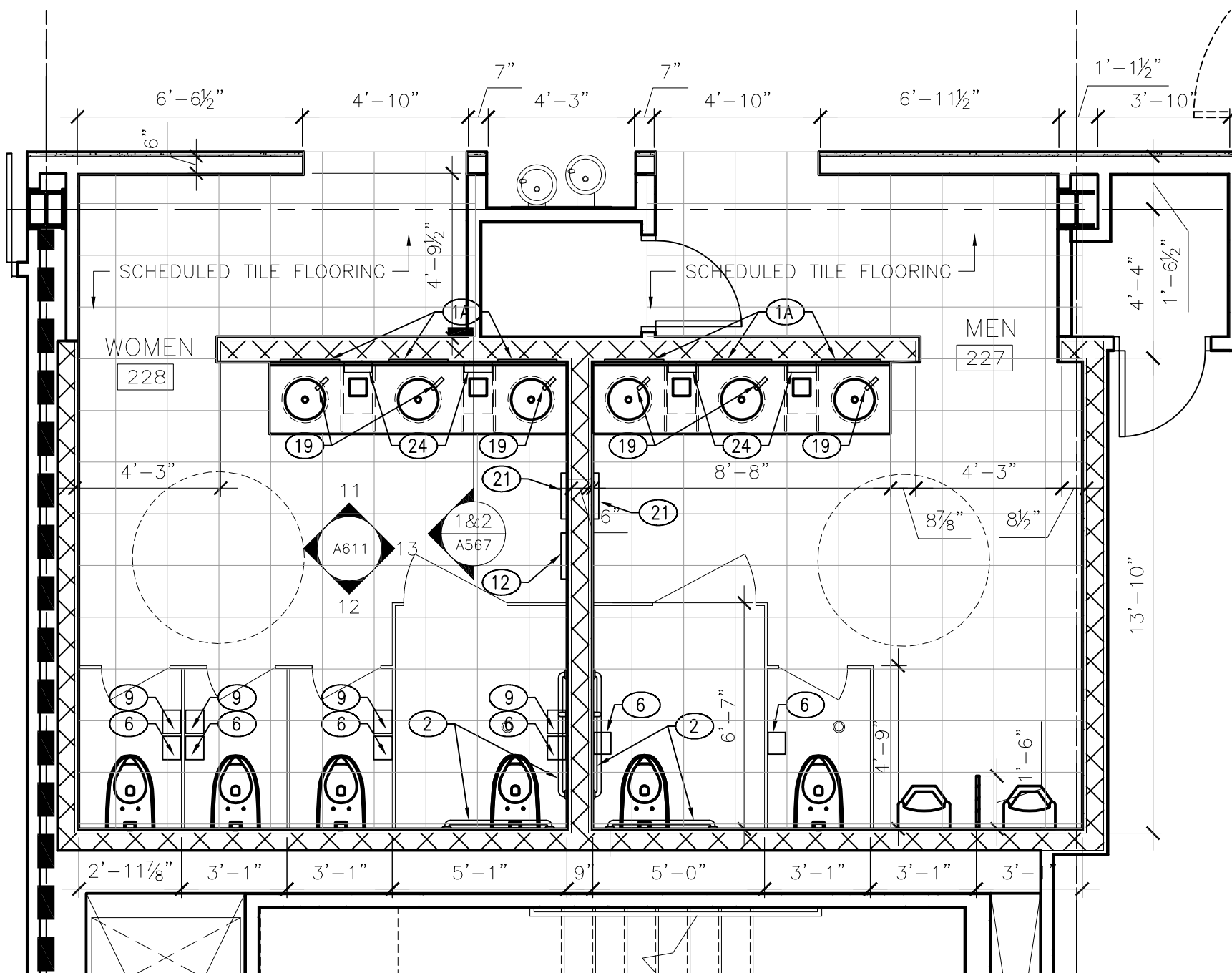
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**BID PACKAGE 2B
ADDENDUM 2**

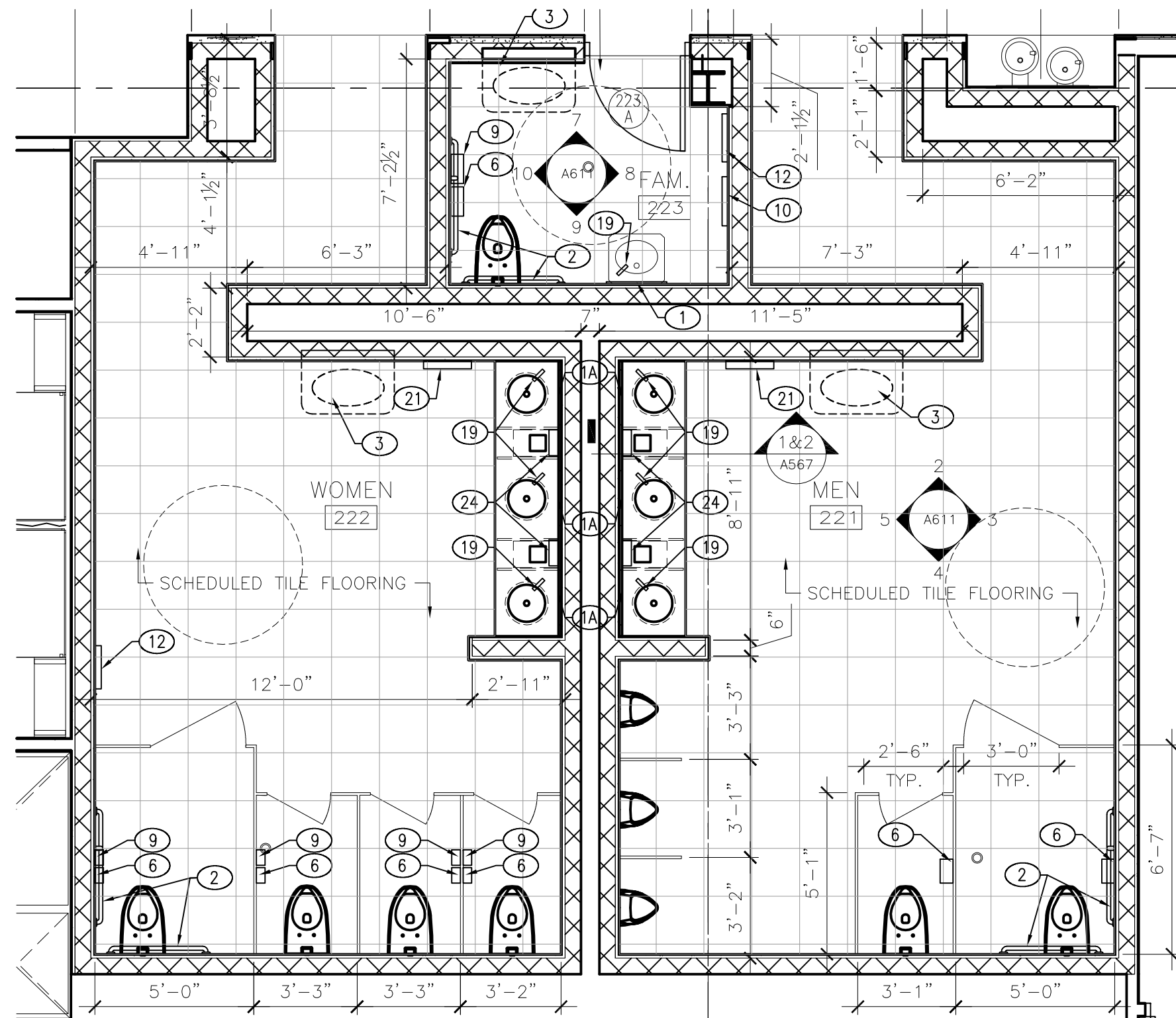
NOTES:
1. SEE A612 FOR ACCESSORY SCHEDULE.
2. PARTITIONS DIMENSIONED TO
FACE OF WALL, TYP.
3. PROVIDE WOOD BLOCKING FOR TOILET PARTITIONS AND
ACCESSORIES AT ALL STUD WALLS



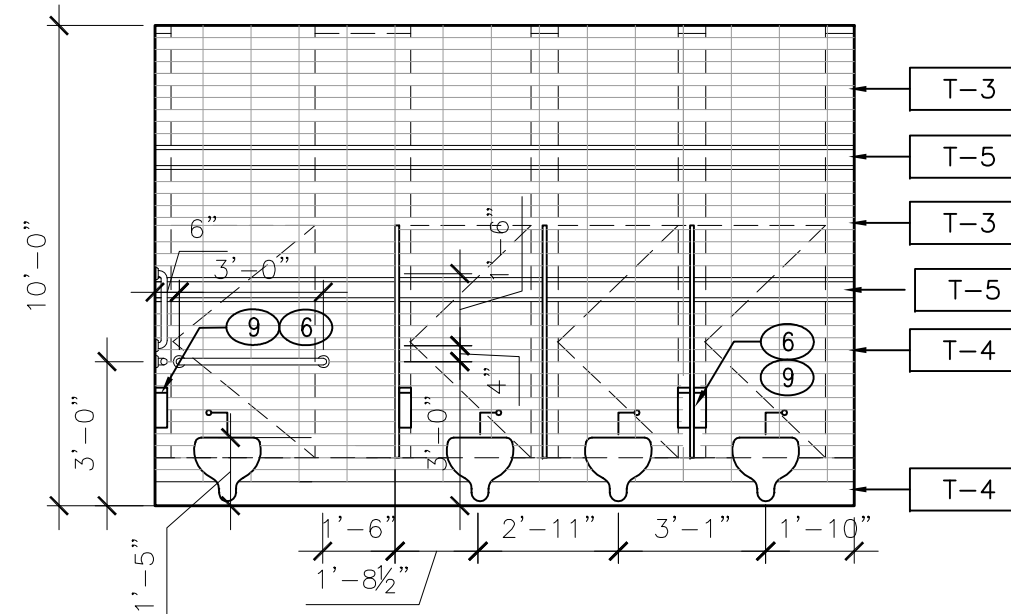
14 ENLARGED PLAN
1/4" = 1'-0"



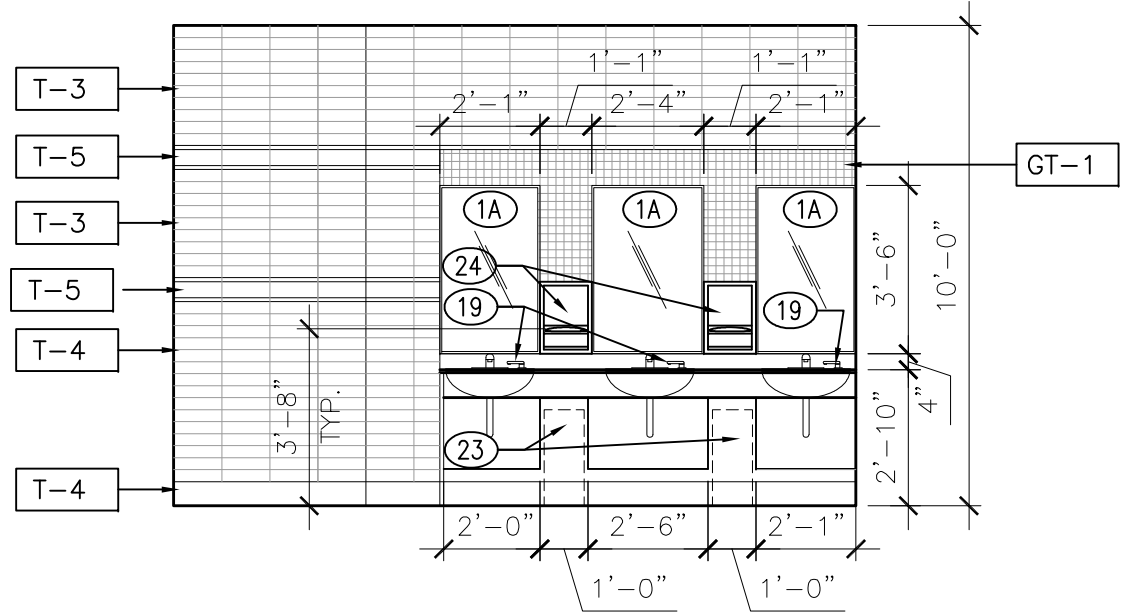
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1/4" = 1'-0"



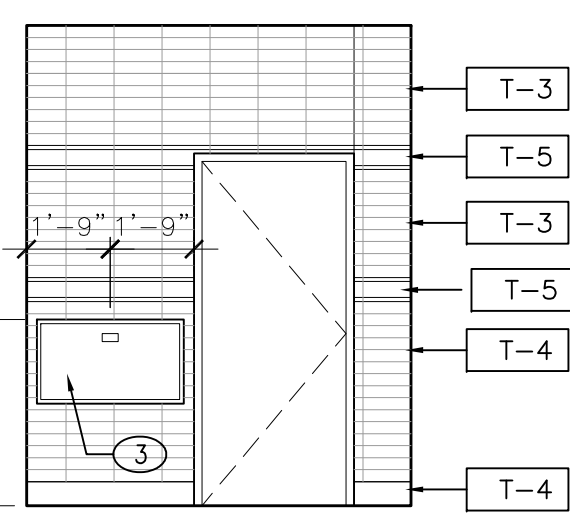
1 ENLARGED PLAN
1/4" = 1'-0"



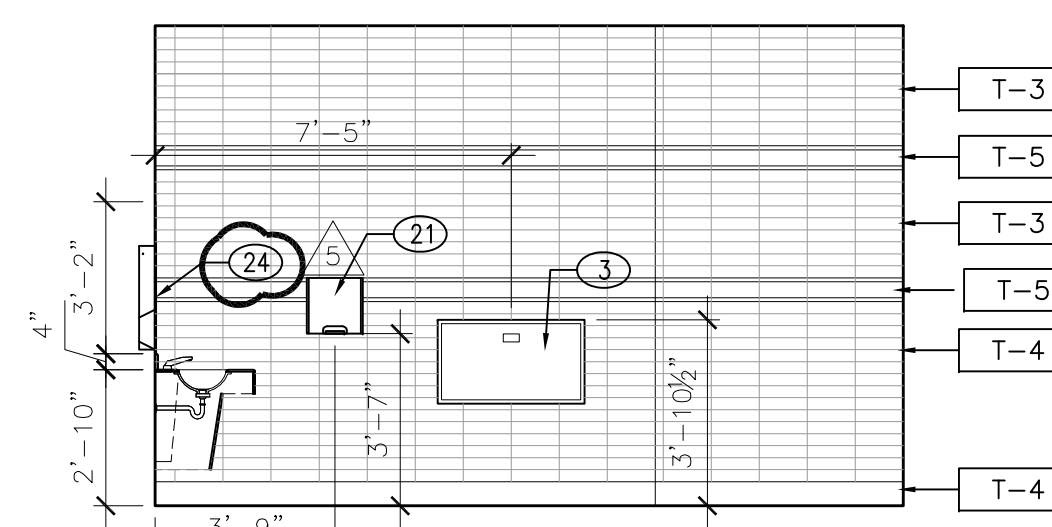
15 RM 207 N ELEV
1/4" = 1'-0"



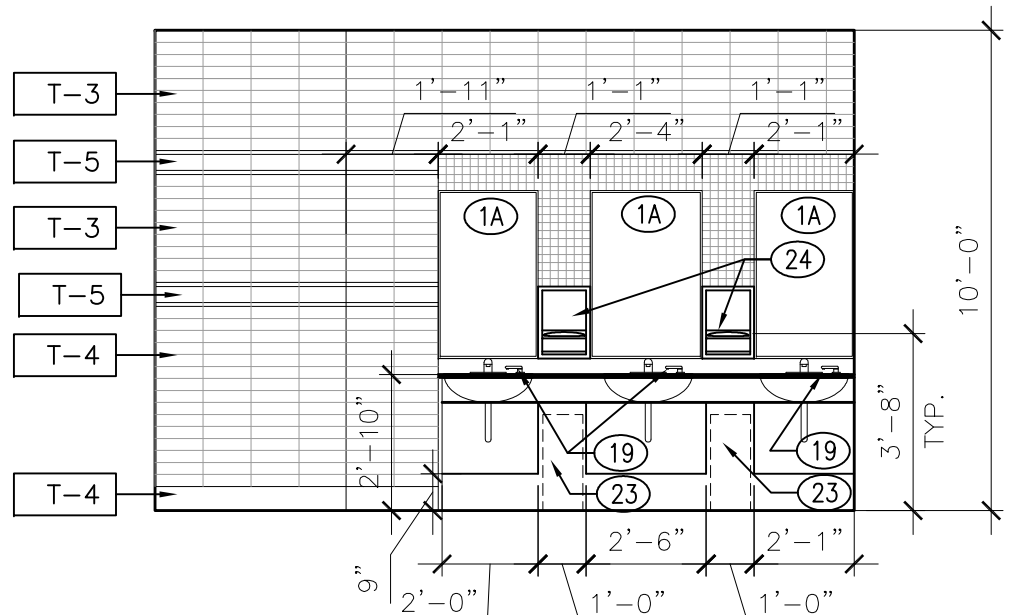
11 RM 228 E ELEV
1/4" = 1'-0"



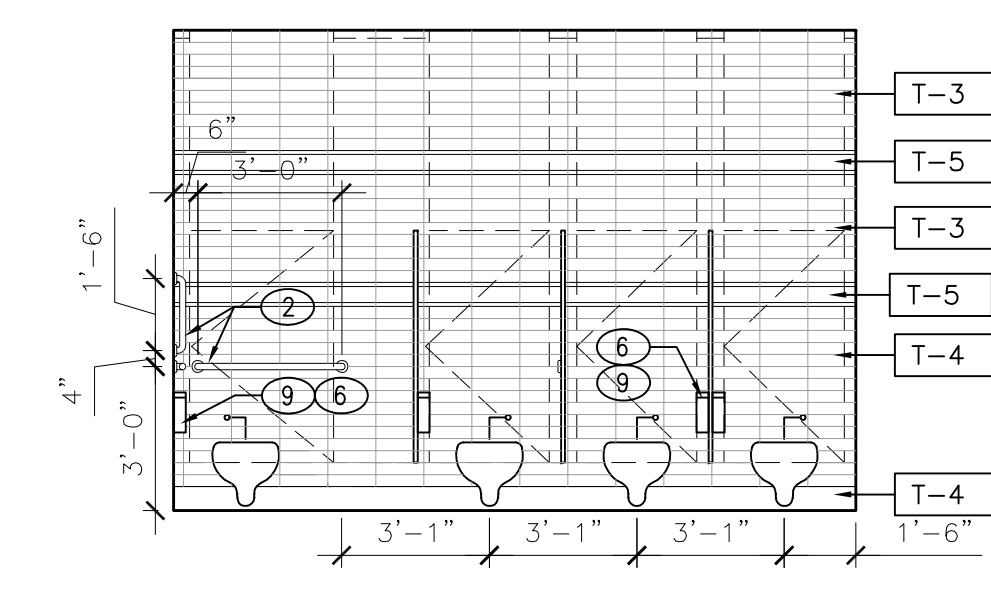
7 RM 223 N ELEV
1/4" = 1'-0"



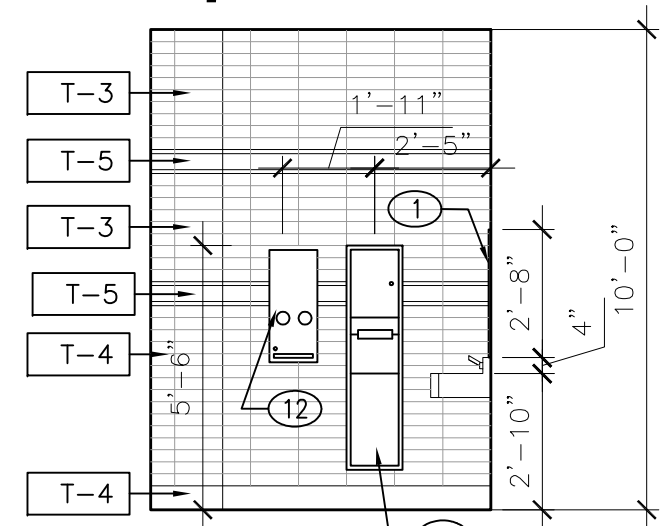
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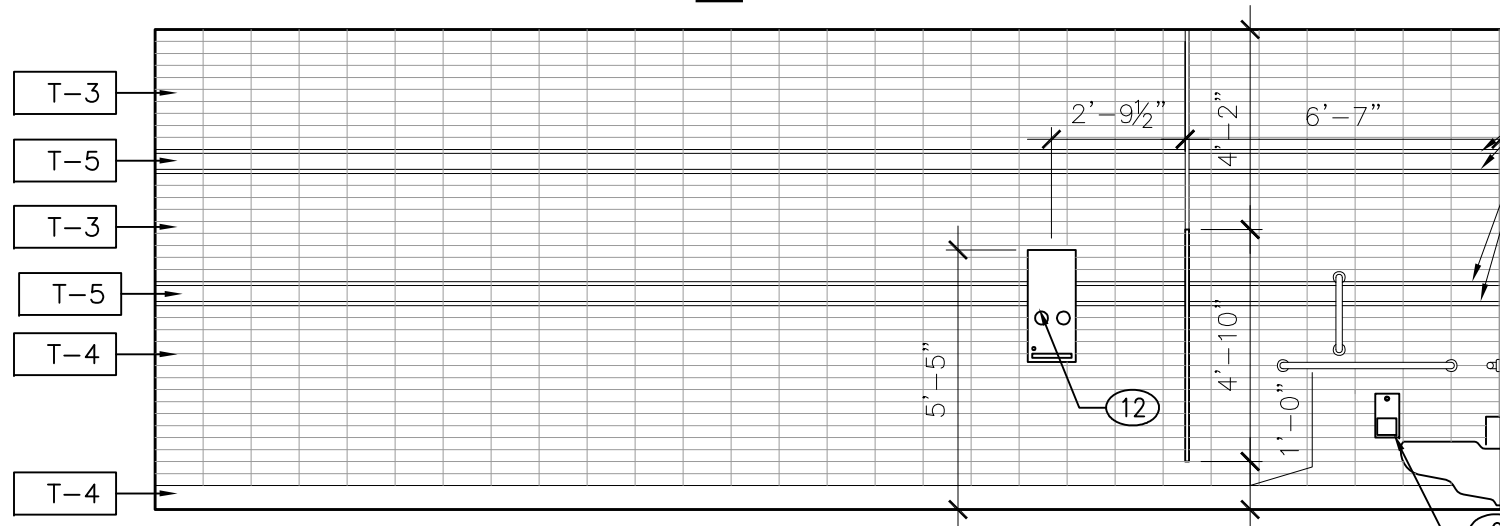
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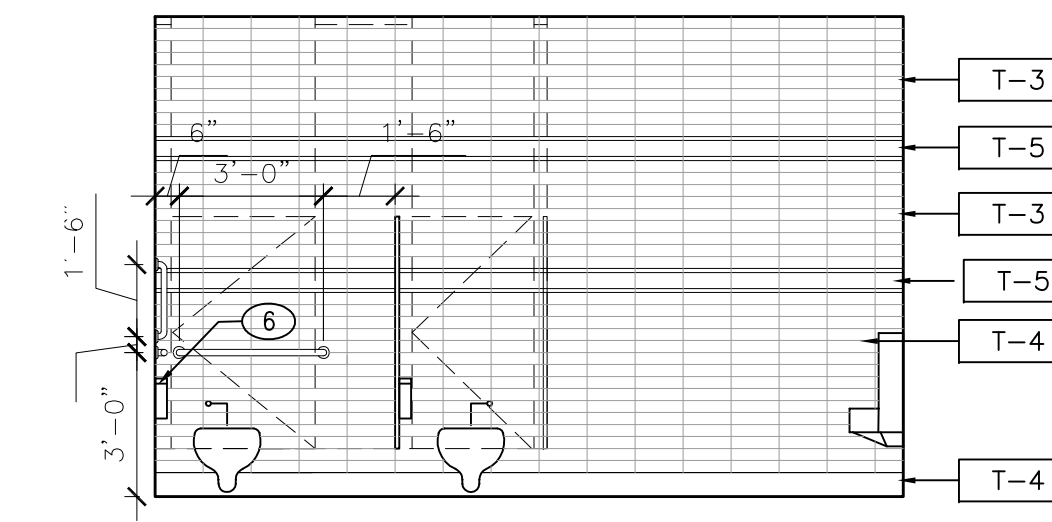
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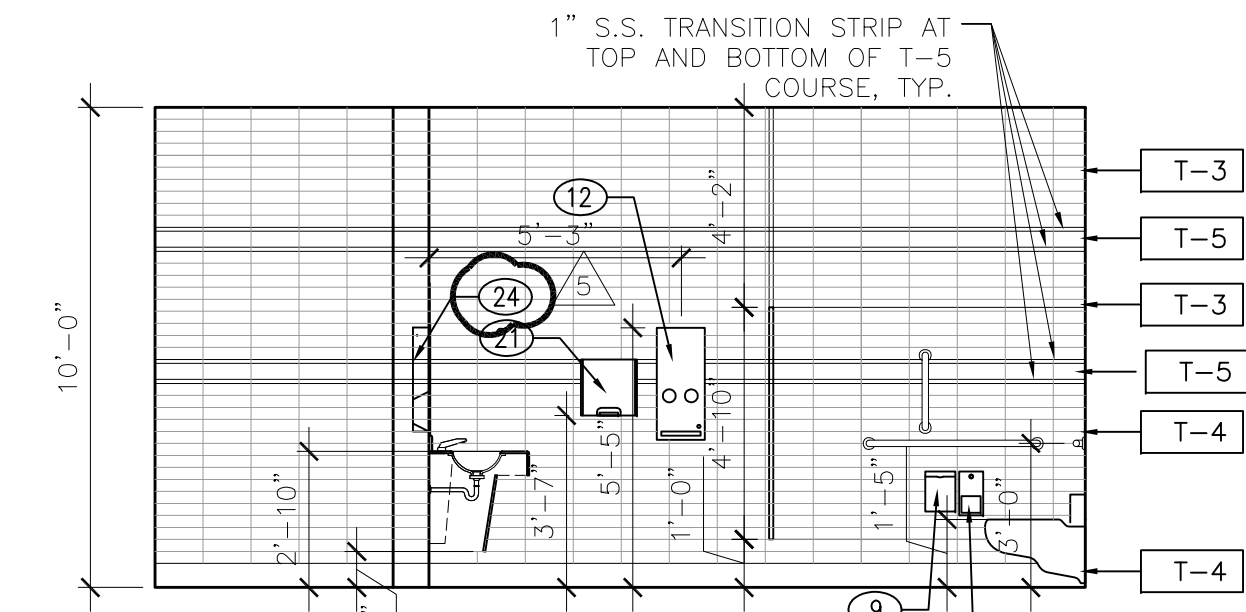
8 RM 223 E ELEV
1/4" = 1'-0"



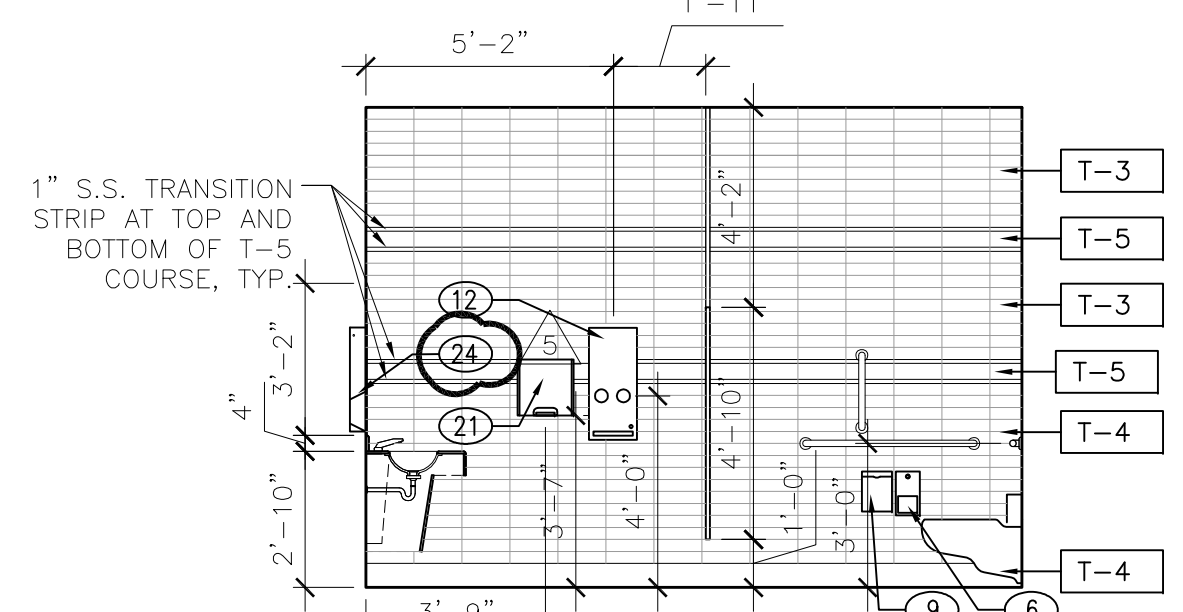
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1/4" = 1'-0"



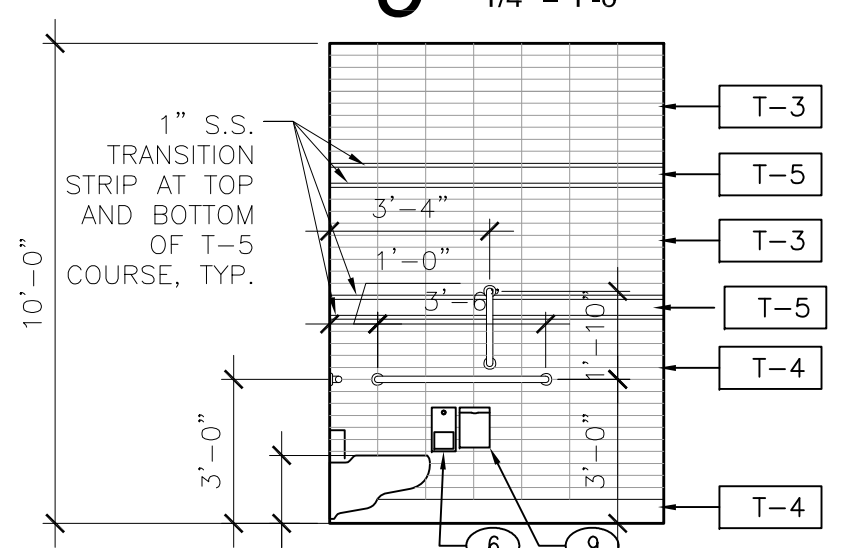
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1/4" = 1'-0"



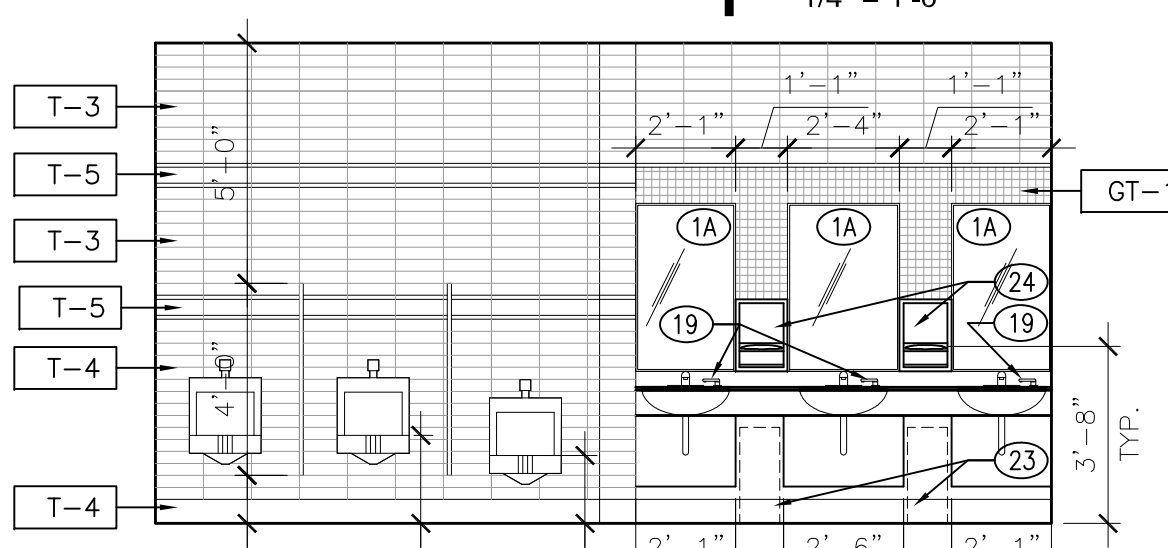
17 RM 207 W ELEV
1/4" = 1'-0"



13 RM 228 W ELEV
1/4" = 1'-0"



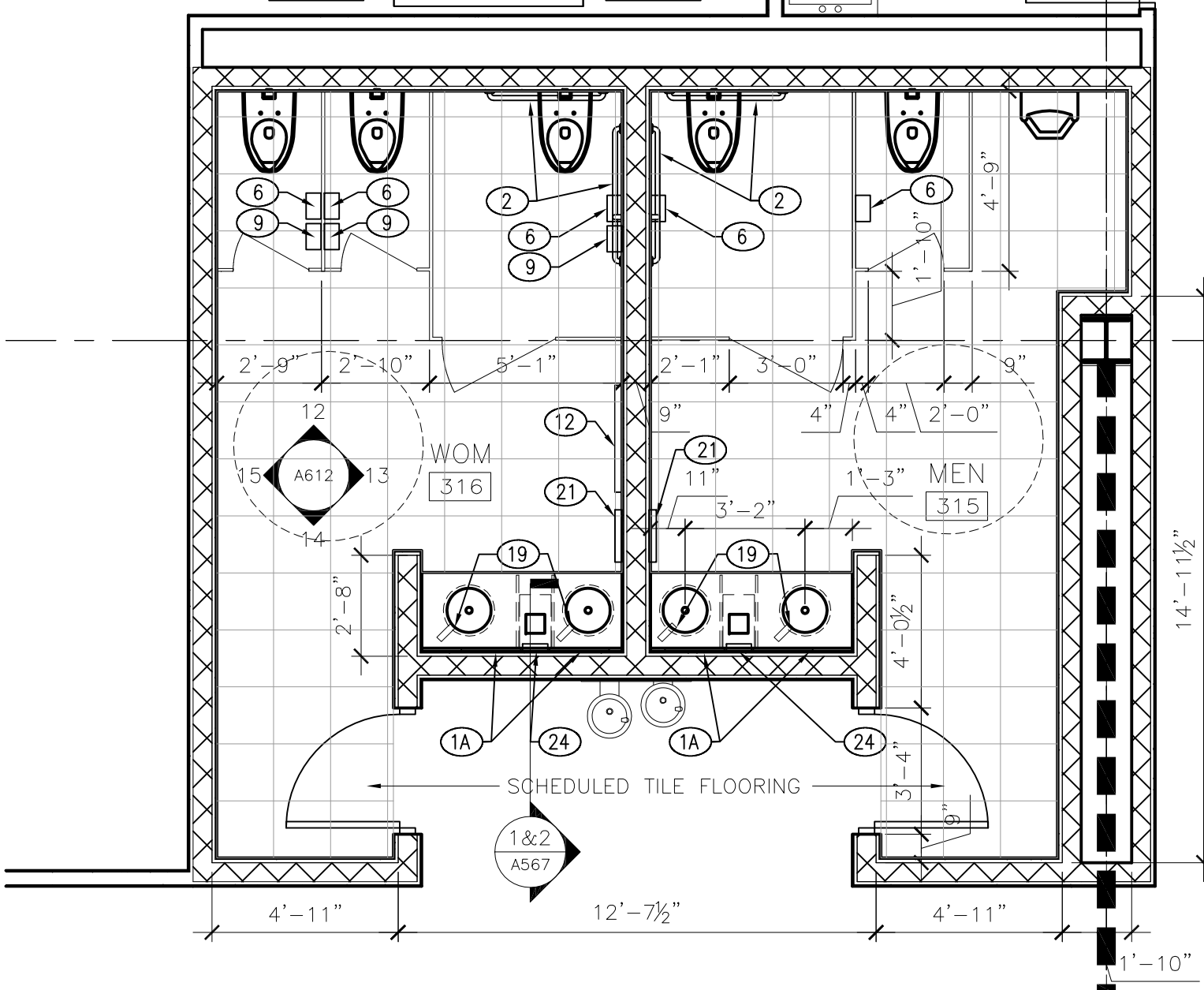
10 RM 223 W ELEV
1/4" = 1'-0"



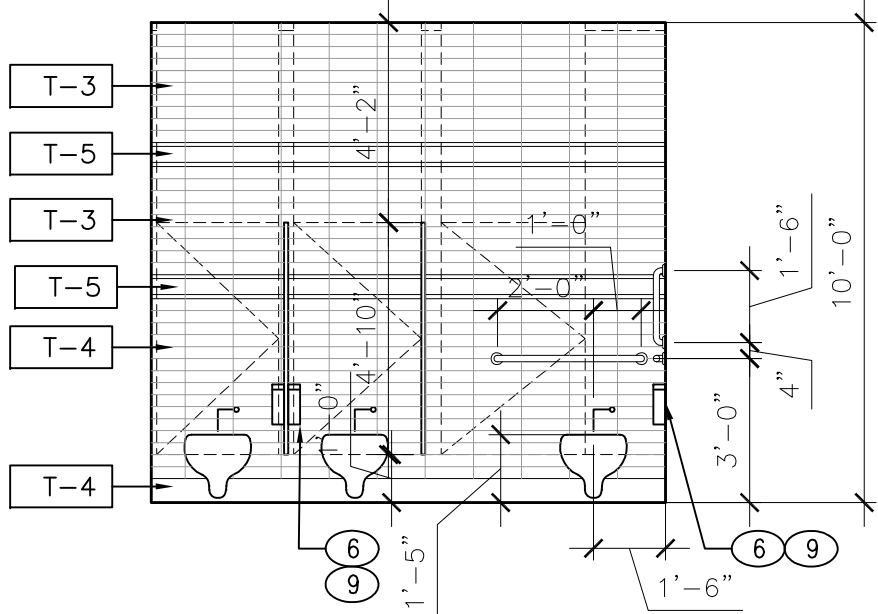
5 RM 221 W ELEV
1/4" = 1'-0"

Tag #	Item	Manufacturer	Model Number	Description
1	Mirror	Bobrick	B-290 1832	Welded Frame mirror
1A	Mirror	Bobrick	B-SERIES	Welded Frame mirror, Size Varies
2	Stainless Steel Grab Bar	Bobrick	B-6800 Series	1 1/2" Dia. Satin
3	Recessed Baby Change Station	Koala Kare	KB110-SSRE	Horizontal Recess Mounted with SS Finish
4	Stainless Steel Two Wall Shower Grab Bar	Bobrick	B-6800 Series	1 1/2" Dia. Satin
5	DELETED			
5A	DELETED			
6	Toilet Tissue Dispenser (Wall)	Bobrick	B-4288	Contura surface mounted multi-roll
7	DELETED			
7A	DELETED			
8	DELETED			
9	Sanitary Napkin Disposal (Wall)	Bobrick	B-270	Contura Surface Mounted Disposal
10	Paper Towel Dispenser/Disposal	Bobrick	B-43944	Contura Recessed
11	Short Paper Towel Dispenser	Bobrick	B-4262	Contura Surface Mounted Dispenser
12	Sanitary Napkin Dispenser	Bobrick	B-4706 25	Contura Recessed
13	DELETED			
14	Towel Hook	Bobrick	B-677	Stainless Steel, Polished
15	DELETED			
16	Shower Seat	Bobrick	B-5181	Reversible Folding Shower Seat
17	Shower Curtain Rod	Bobrick	B-207	Shower Curtain Rod with Concealed Mtg.
18	Shower Curtain	Bobrick	204-2	Vinyl Shower Curtain
19	Soap Dispenser (Surface)	Bobrick	B-826	Automatic Liquid Soap Dispenser
19B	Soap Dispenser (Wall)	Bobrick	B-4112	Contura Surface Mounted Soap Dispenser
20	DELETED			
21	Surface Mounted Hand Dryer	Bobrick	B-7128	Trimline Surface Mounted in Stainless
22	Mop and Broom Holder	Bobrick	B-223x24	Mounted 72" from Finished Floor at all Mop
23	S.S. Waste Receptacle	Detecto	SWC-64	64 Qt Stainless Steel
24	Paper Towel Dispenser	Bobrick	B-35903	Trimline Recessed Dispenser

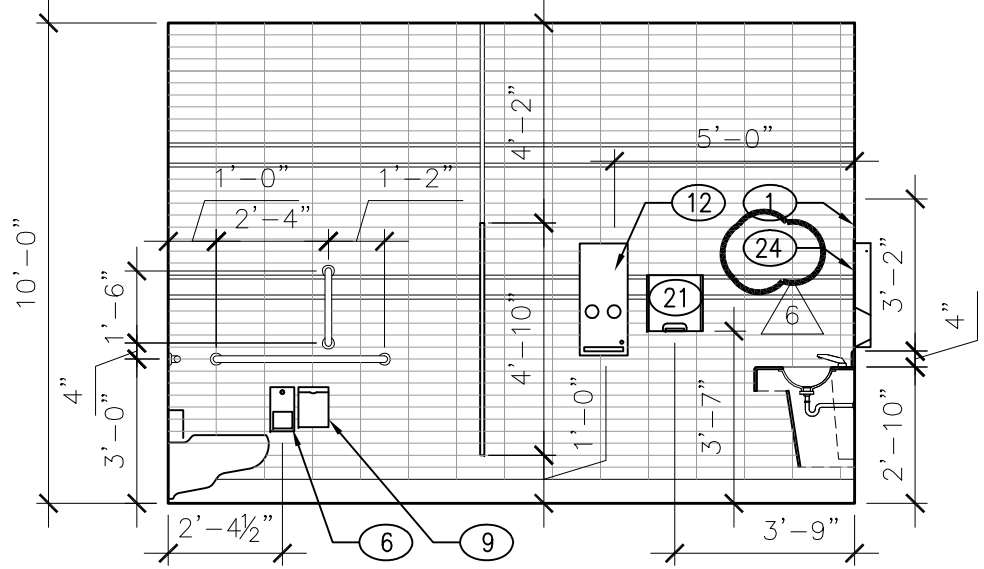
16 TOILET ACCESSORY SCHEDULE
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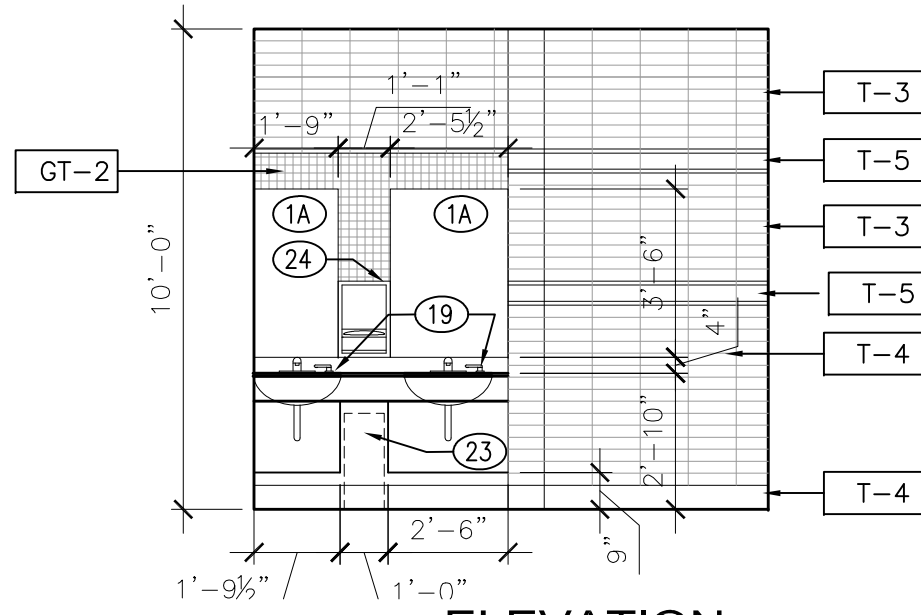
11 ENLARGED PLAN
1/4" = 1'-0"



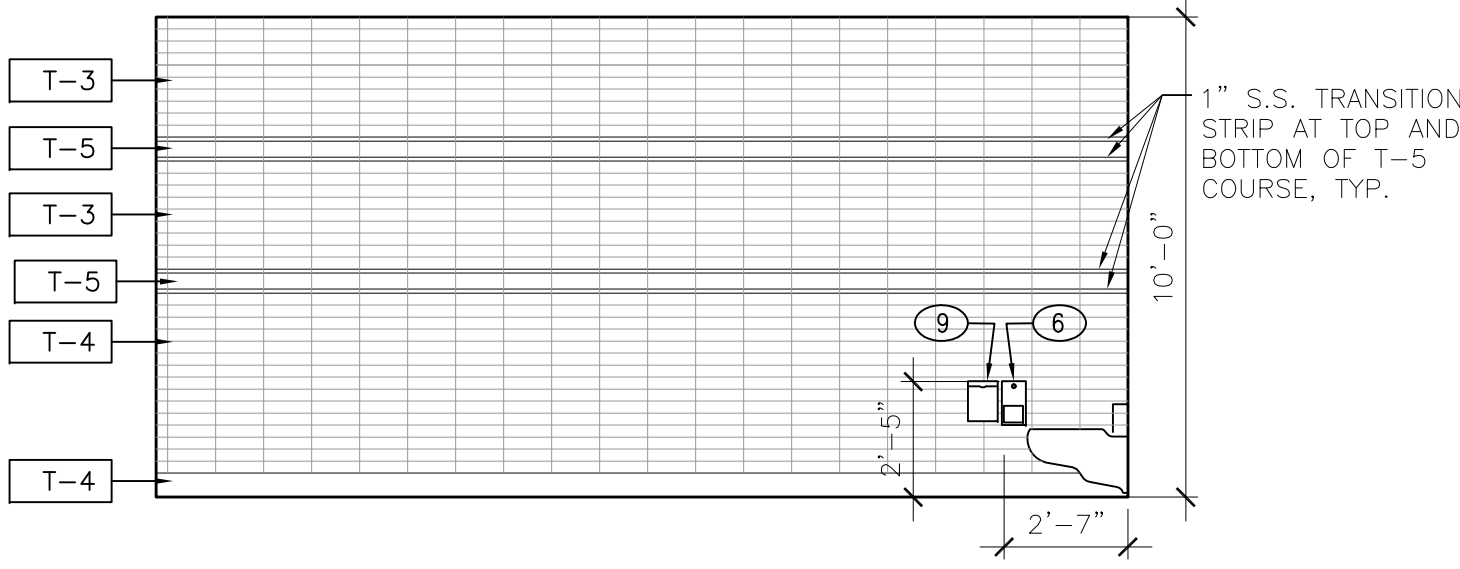
12 ELEVATION
1/4" = 1'-0"



13 ELEVATION
1/4" = 1'-0"

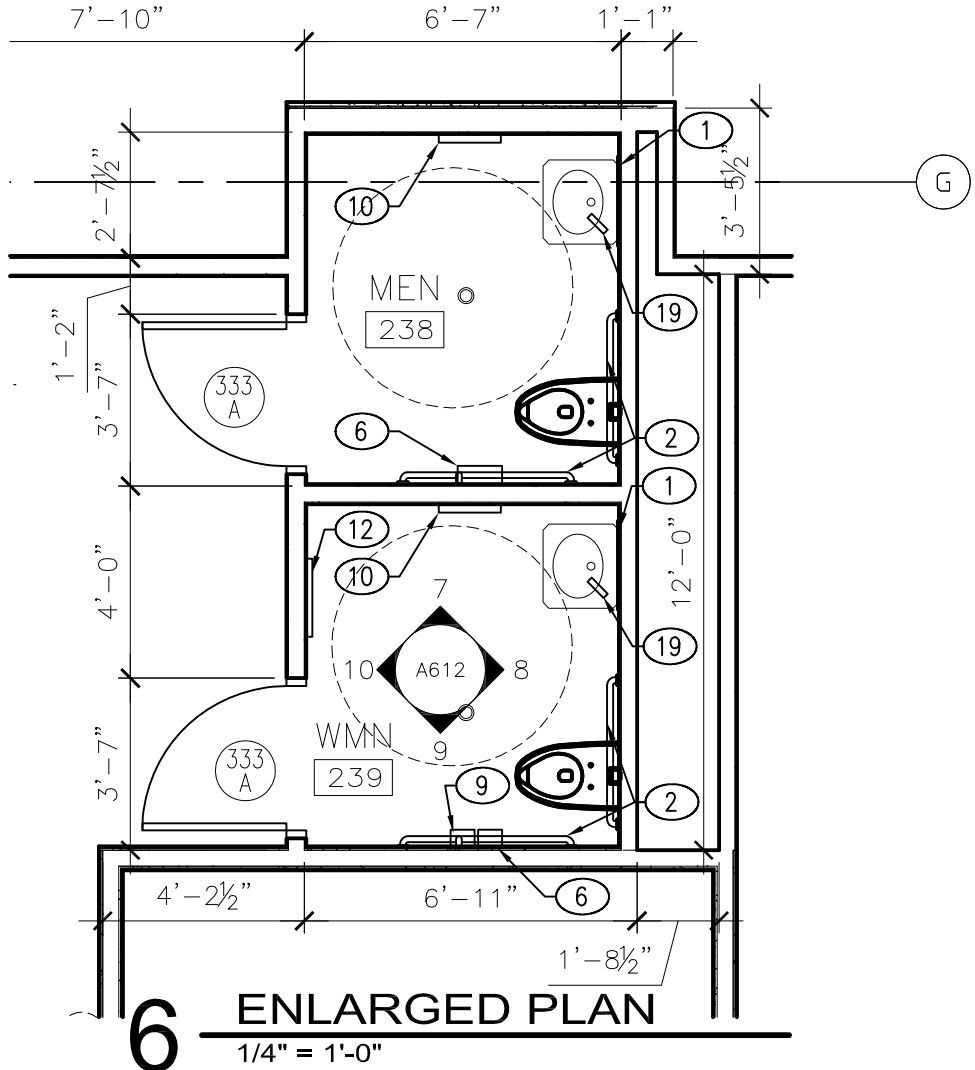


14 ELEVATION
1/4" = 1'-0"

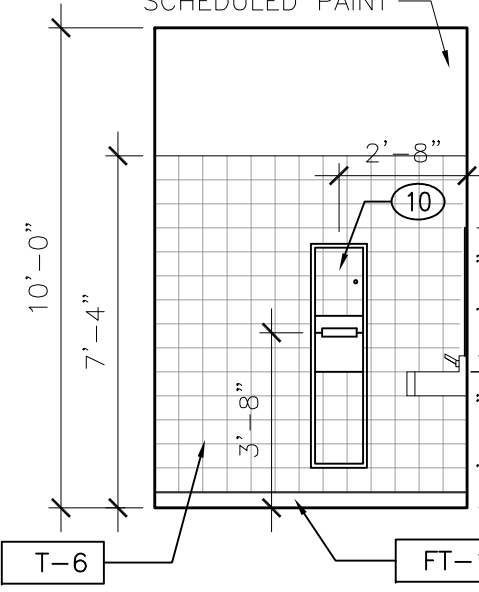


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1/4" = 1'-0"

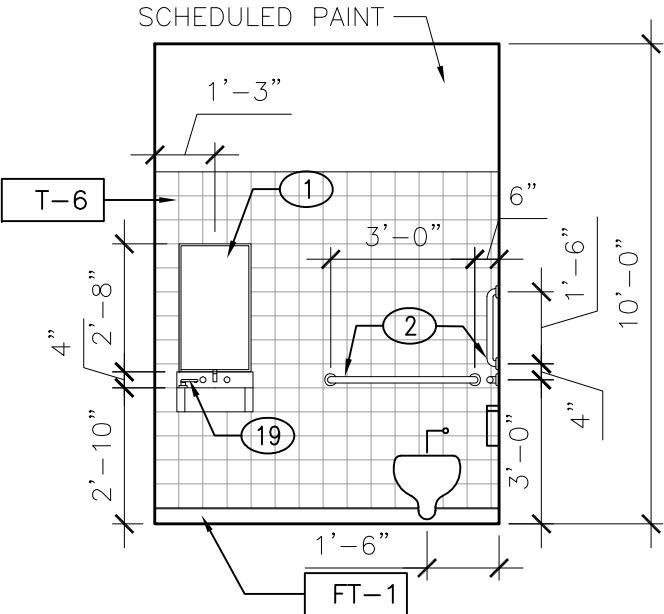
NOTES:
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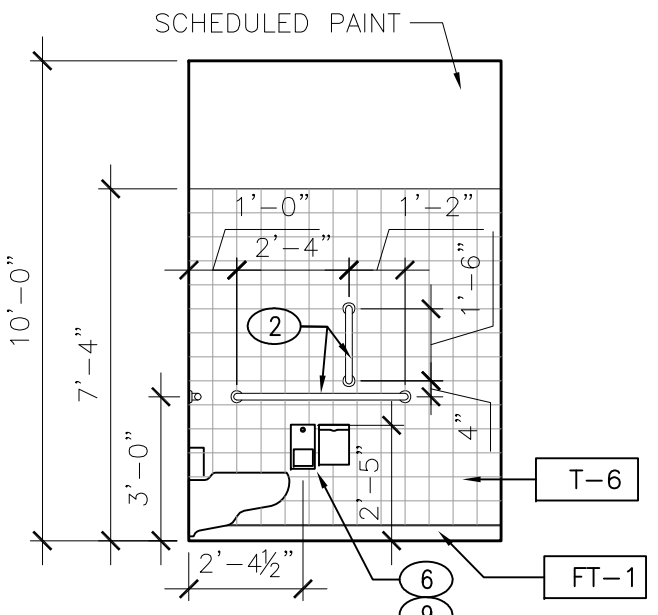
6 ENLARGED PLAN
1/4" = 1'-0"



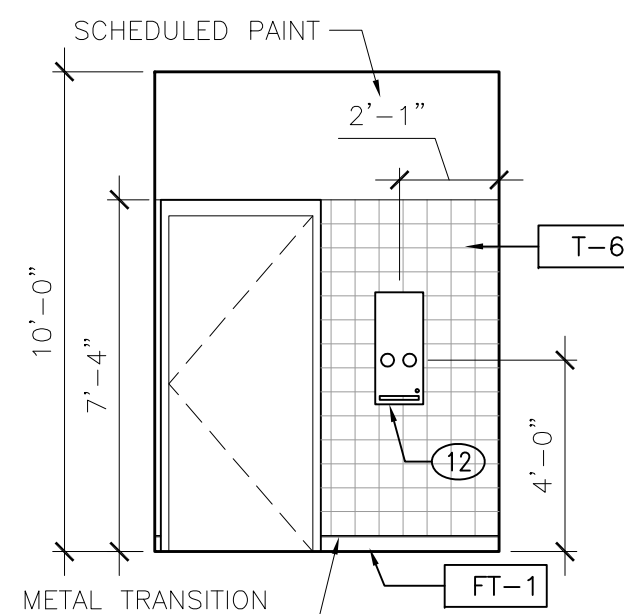
7 ELEVATION
1/4" = 1'-0"



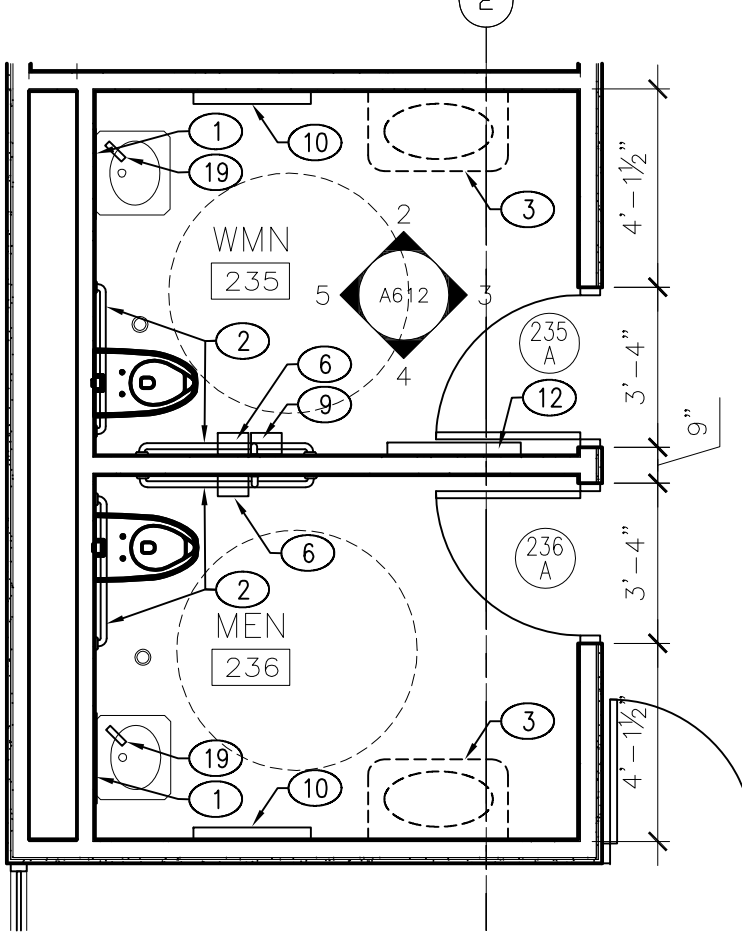
8 ELEVATION
1/4" = 1'-0"



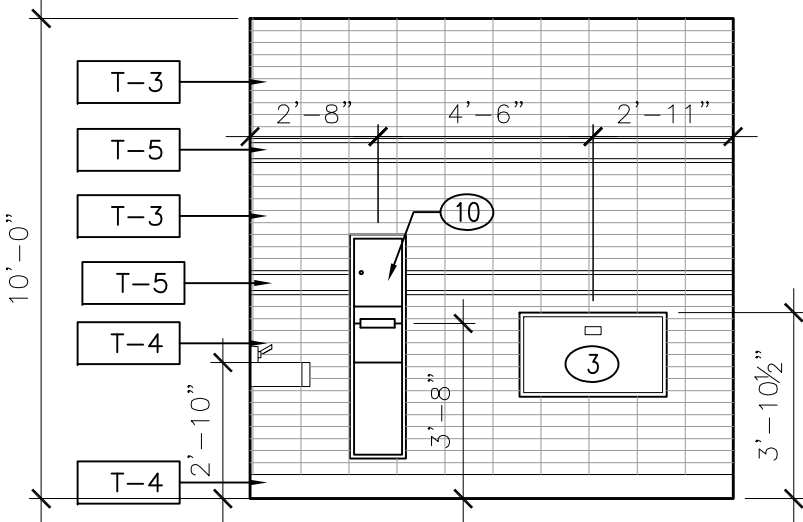
9 ELEVATION
1/4" = 1'-0"



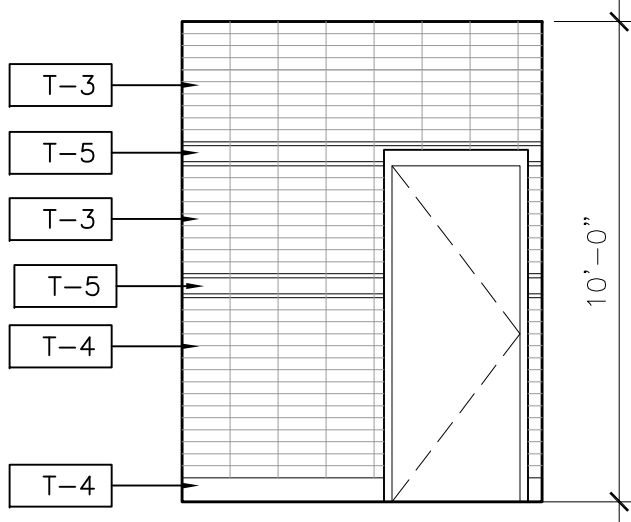
10 ELEVATION
1/4" = 1'-0"



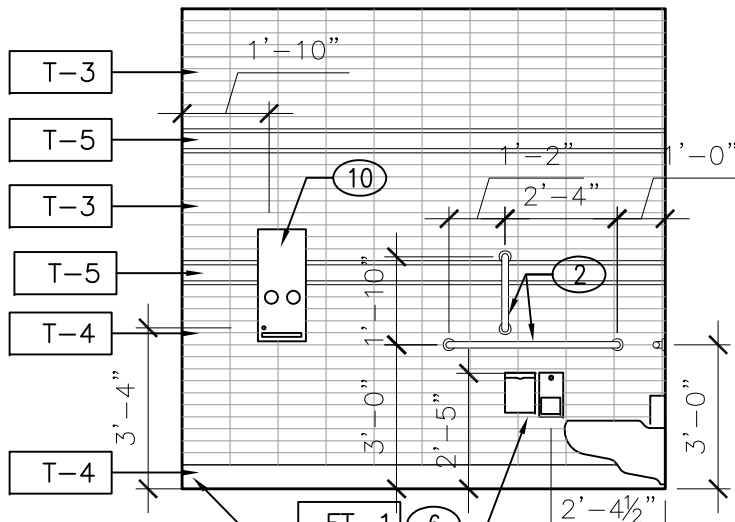
1 ENLARGED PLAN
1/4" = 1'-0"



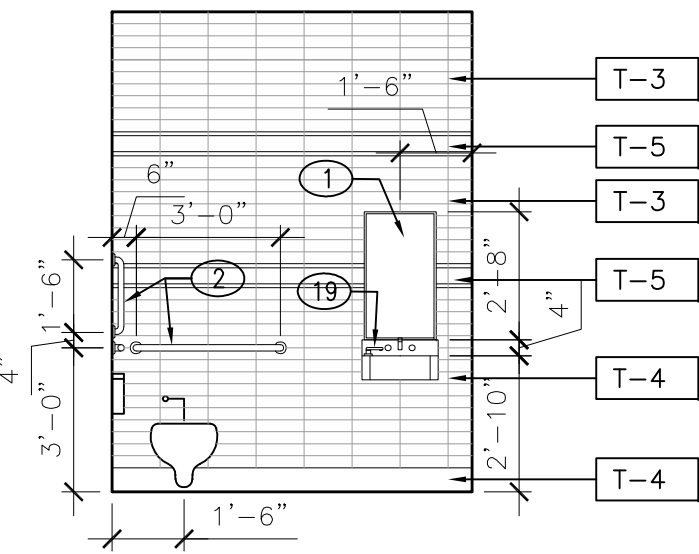
2 ELEVATION
1/4" = 1'-0"



3 ELEVATION
1/4" = 1'-0"



4 ELEVATION
1/4" = 1'-0"



5 ELEVATION
1/4" = 1'-0"



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REVISIONS

NO.	DESCRIPTION	DATE
1,2,3	NOT CHANGED	
	BUILDING PERMIT	8.16.10
4	BUILDING PERMIT REVISIONS	11.12.10
	100% REVIEW	12.15.10
	BID PACKAGE 2A	1.24.11
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213-1882-091

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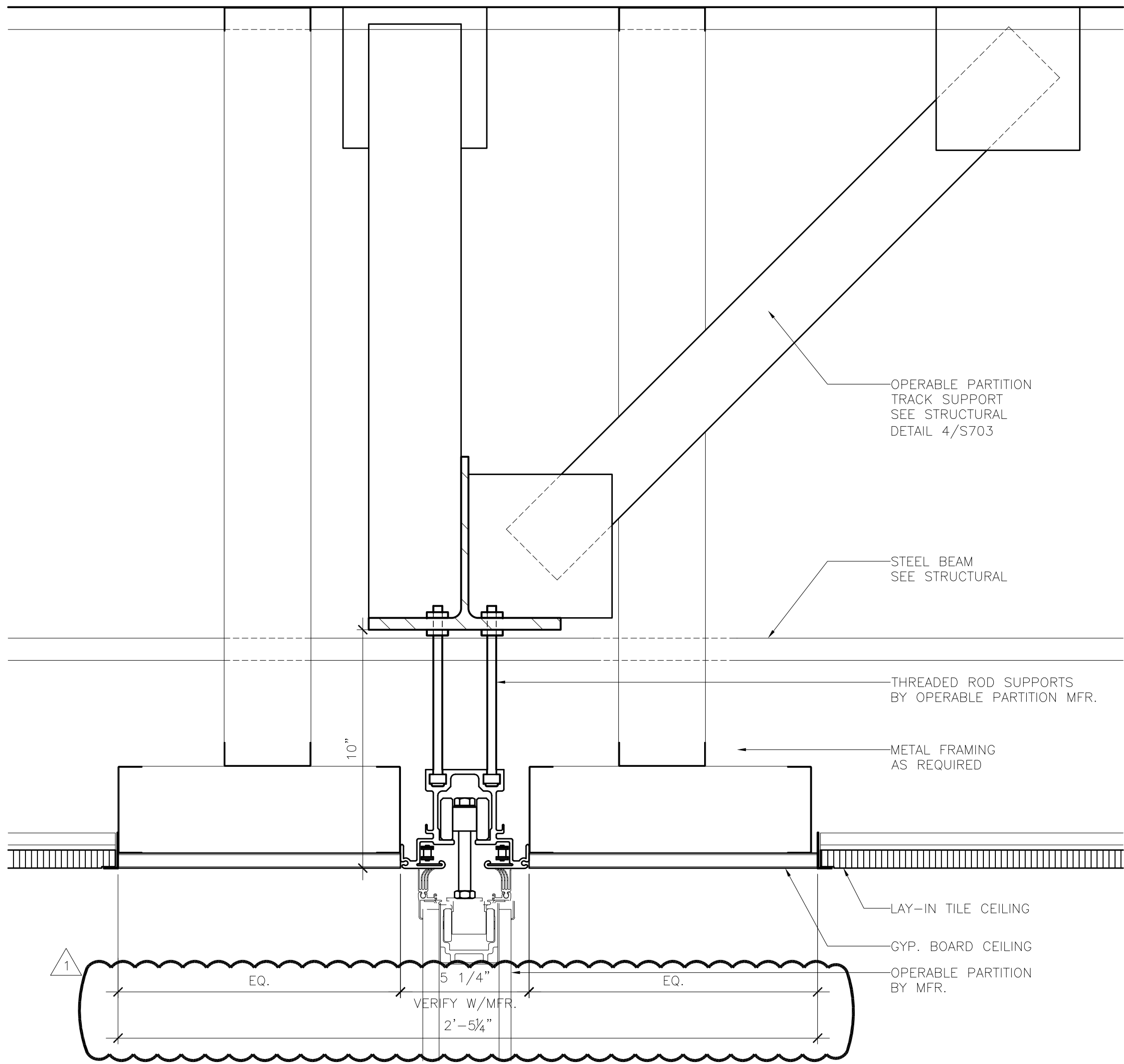
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INTERIOR SYSTEMS
RESTROOMS

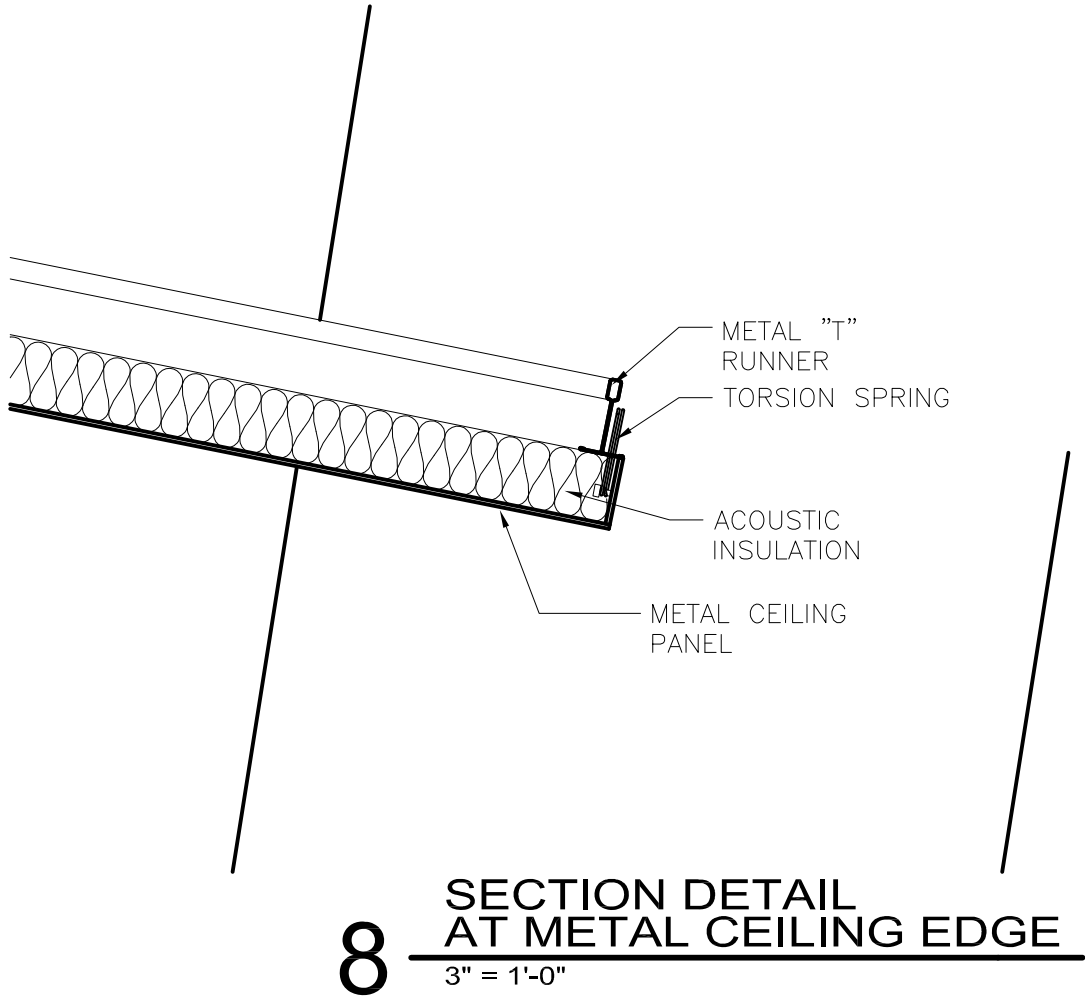
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A612

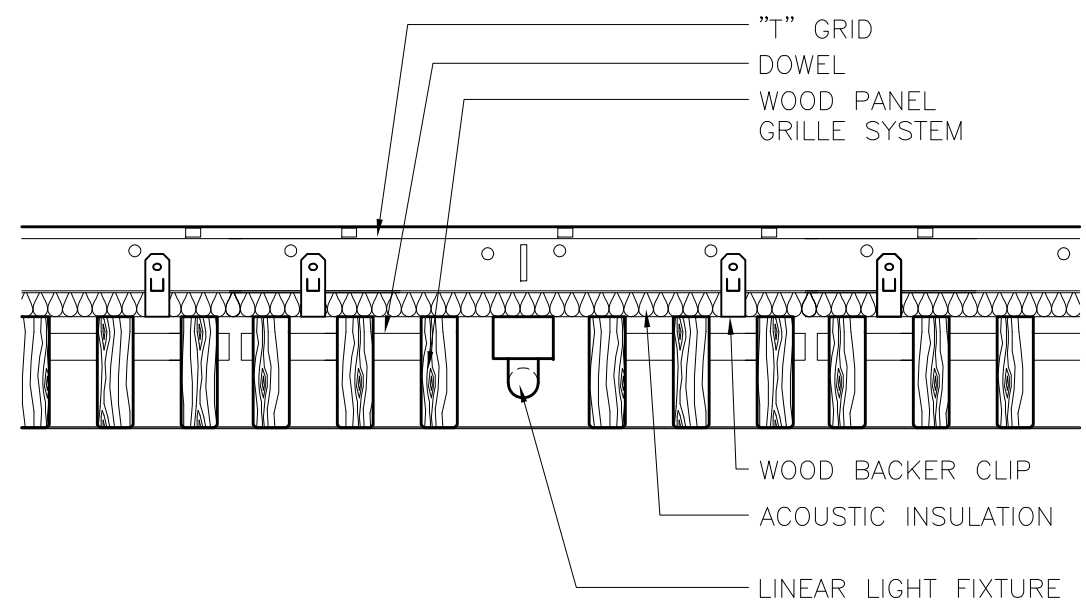
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ADDENDUM 2



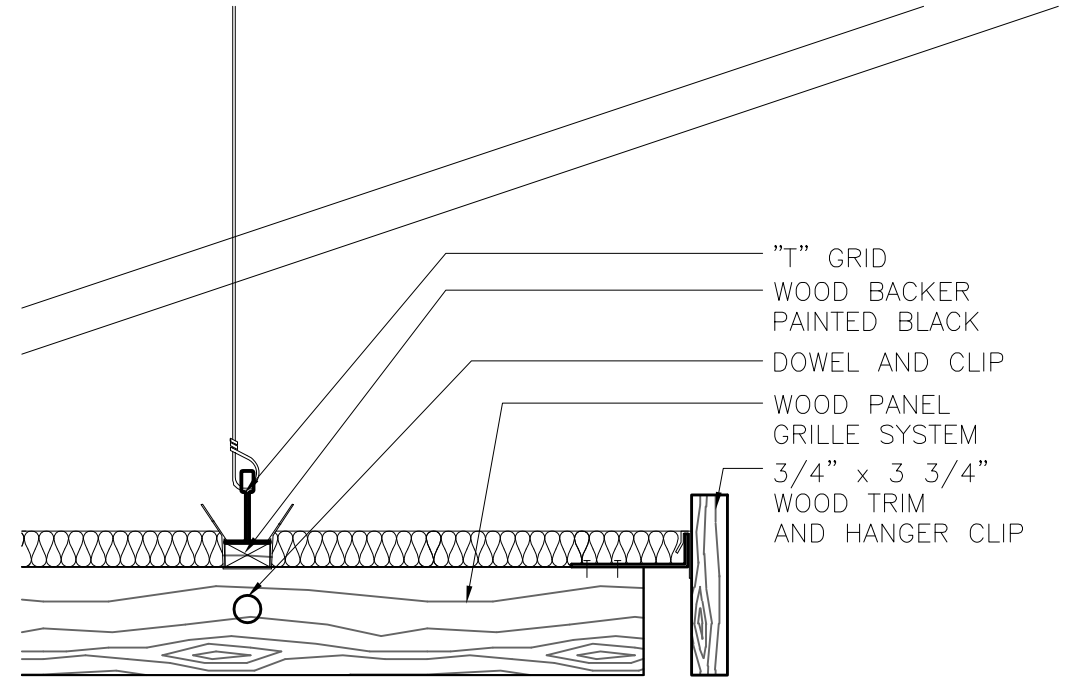
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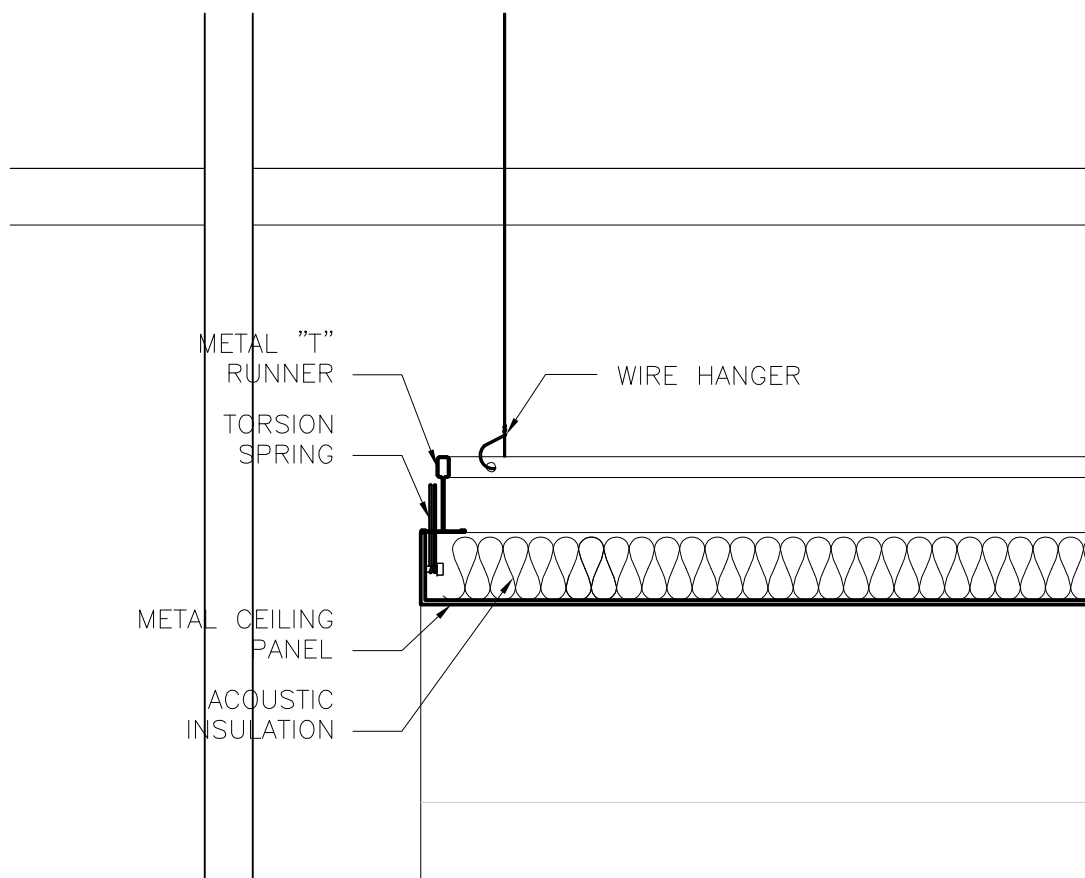
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AT METAL CEILING EDGE
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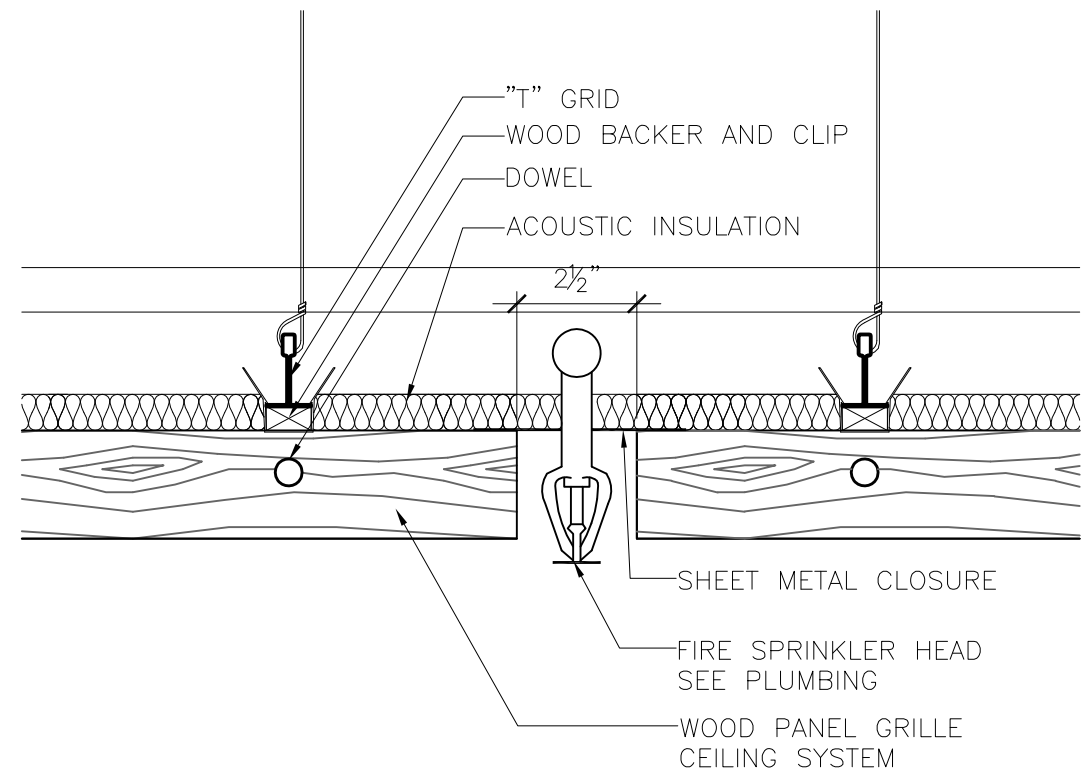
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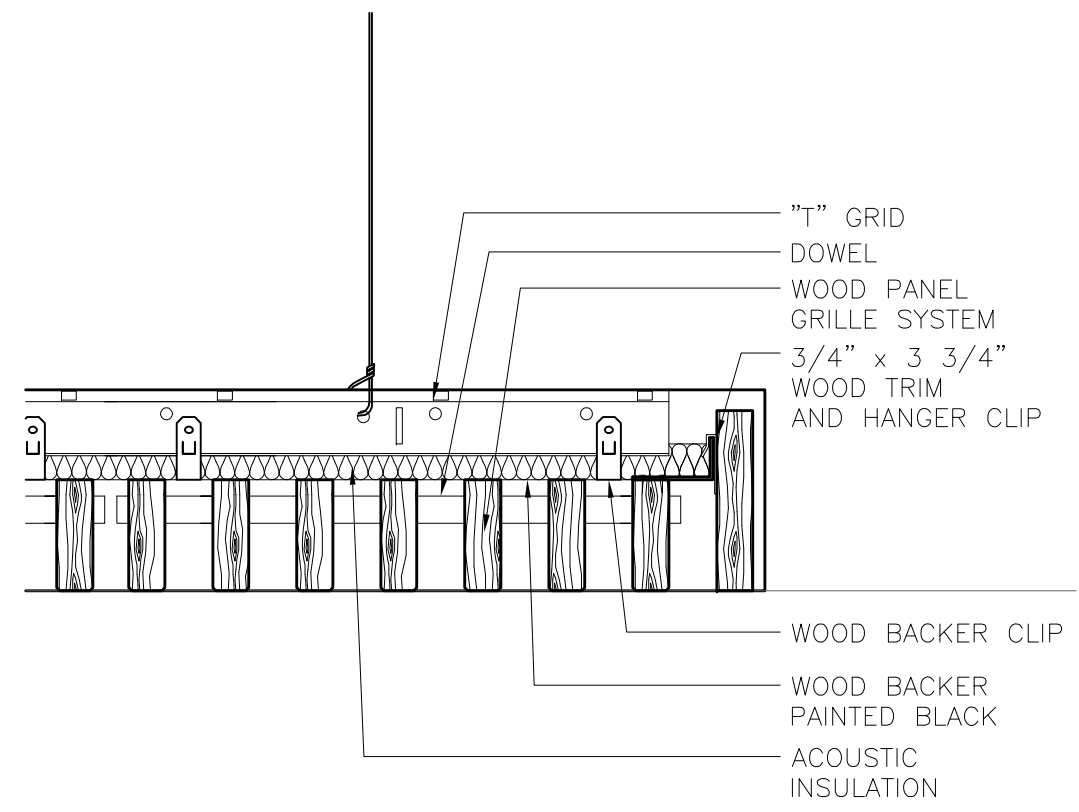
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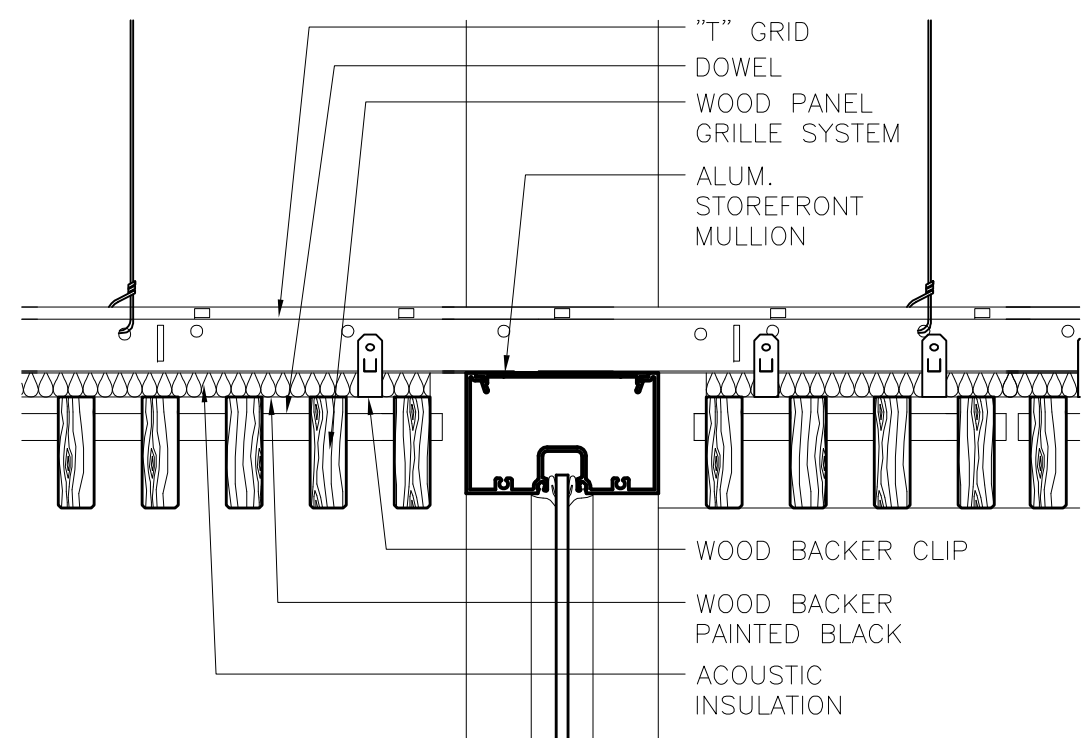
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AT METAL CEILING EDGE
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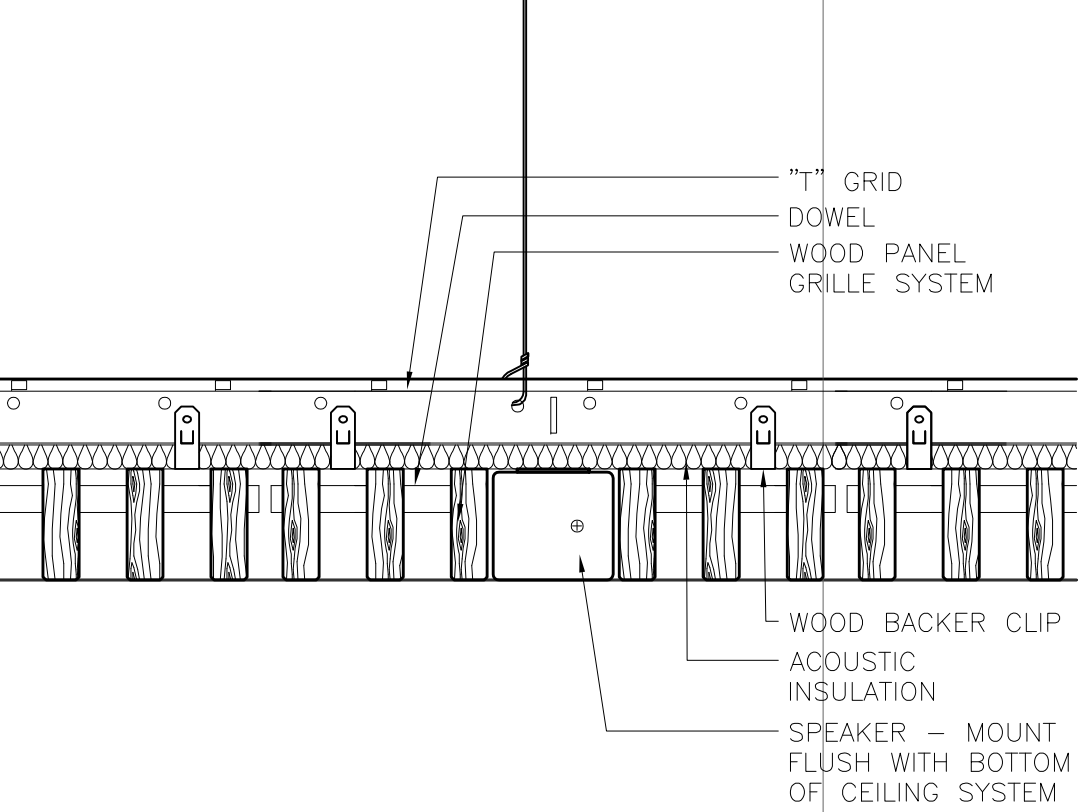
6 SECTION DETAIL
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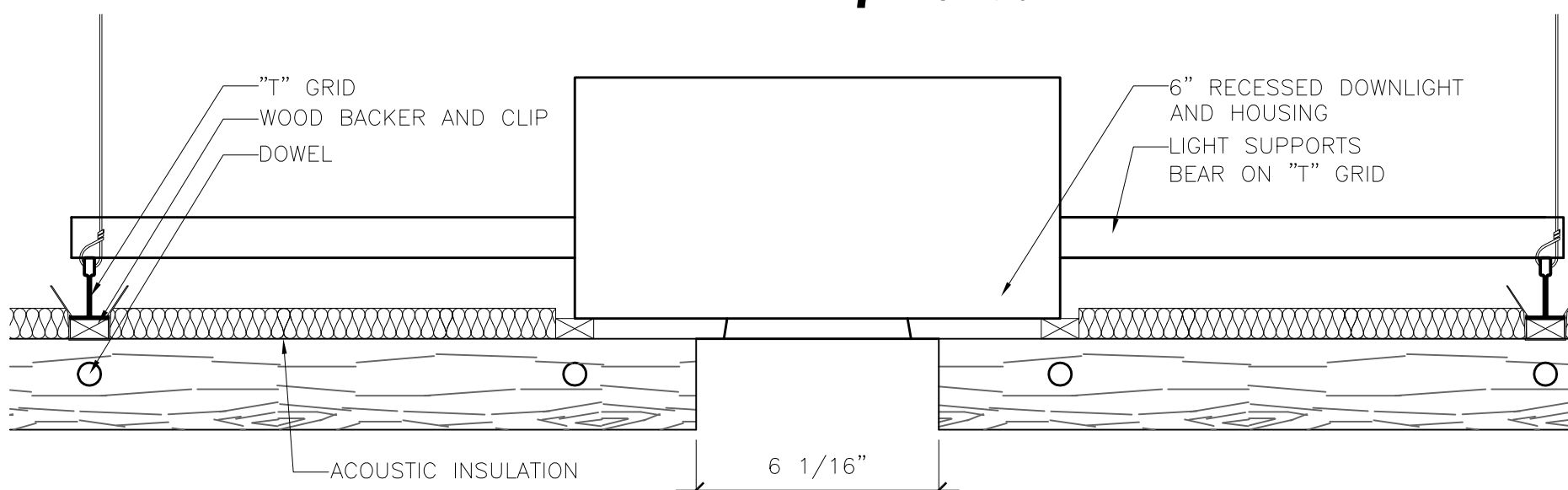
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AT CONCOURSE CEILING ONLY
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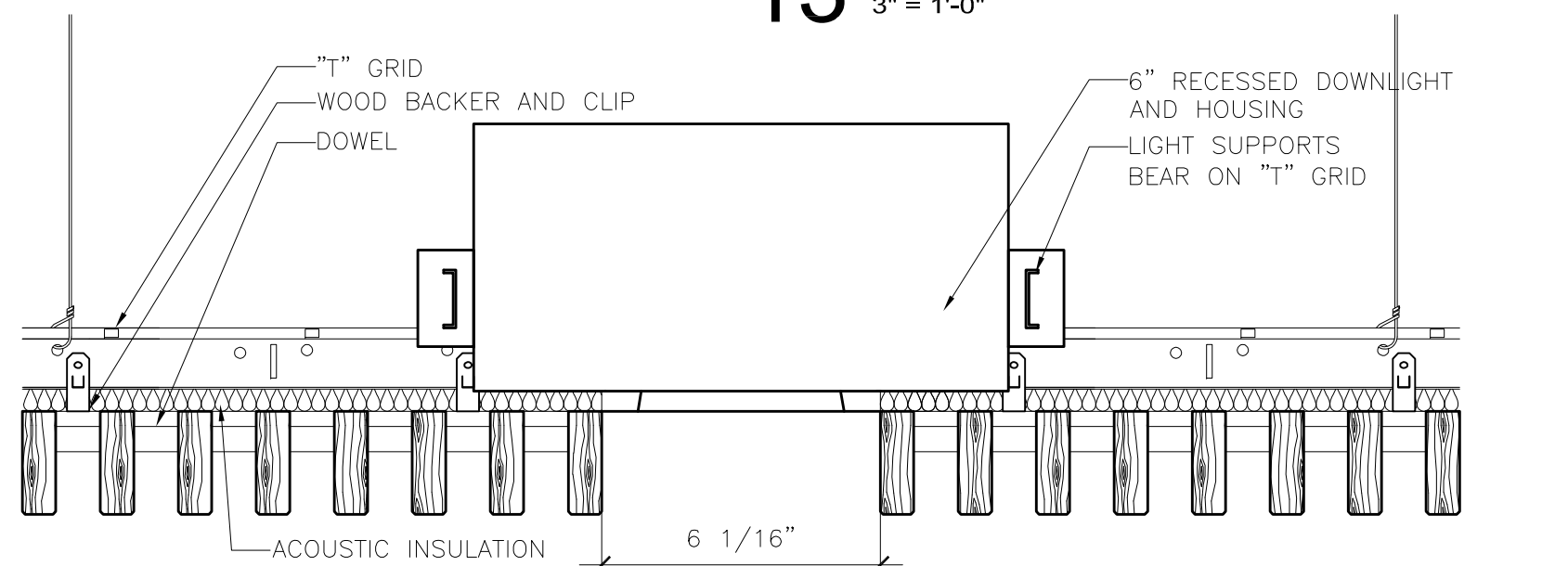
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AT FBO STOREFRONT
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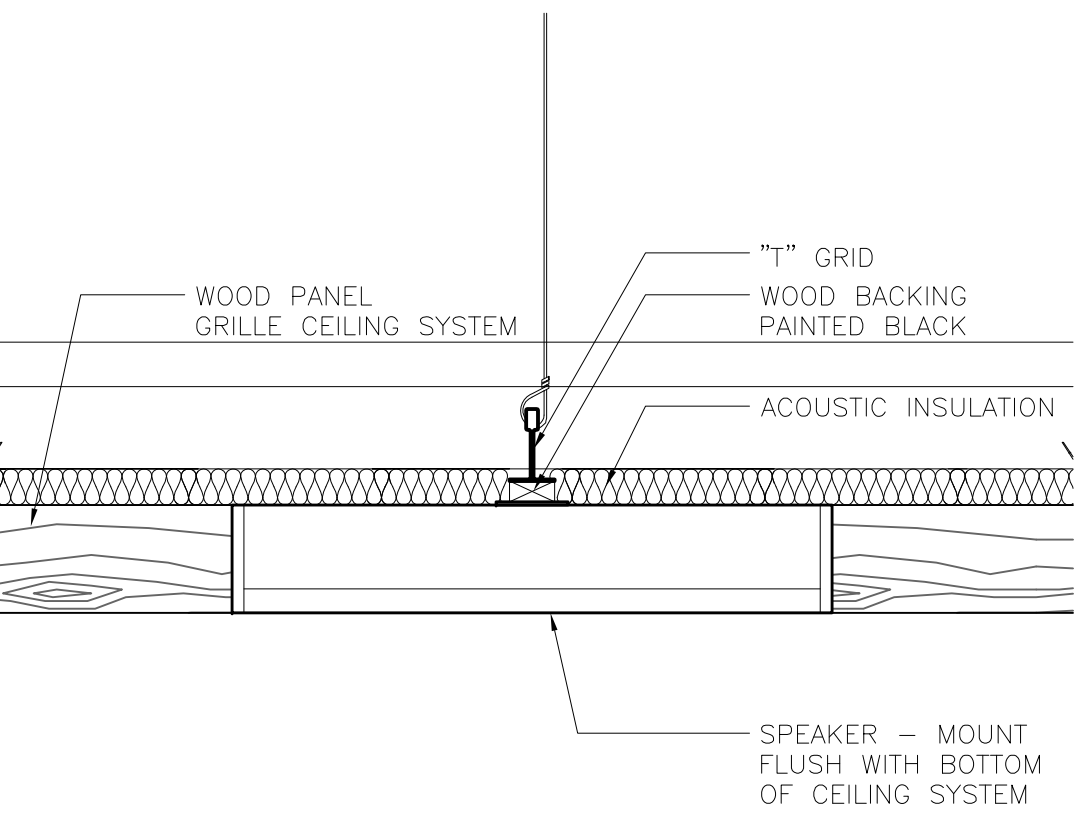
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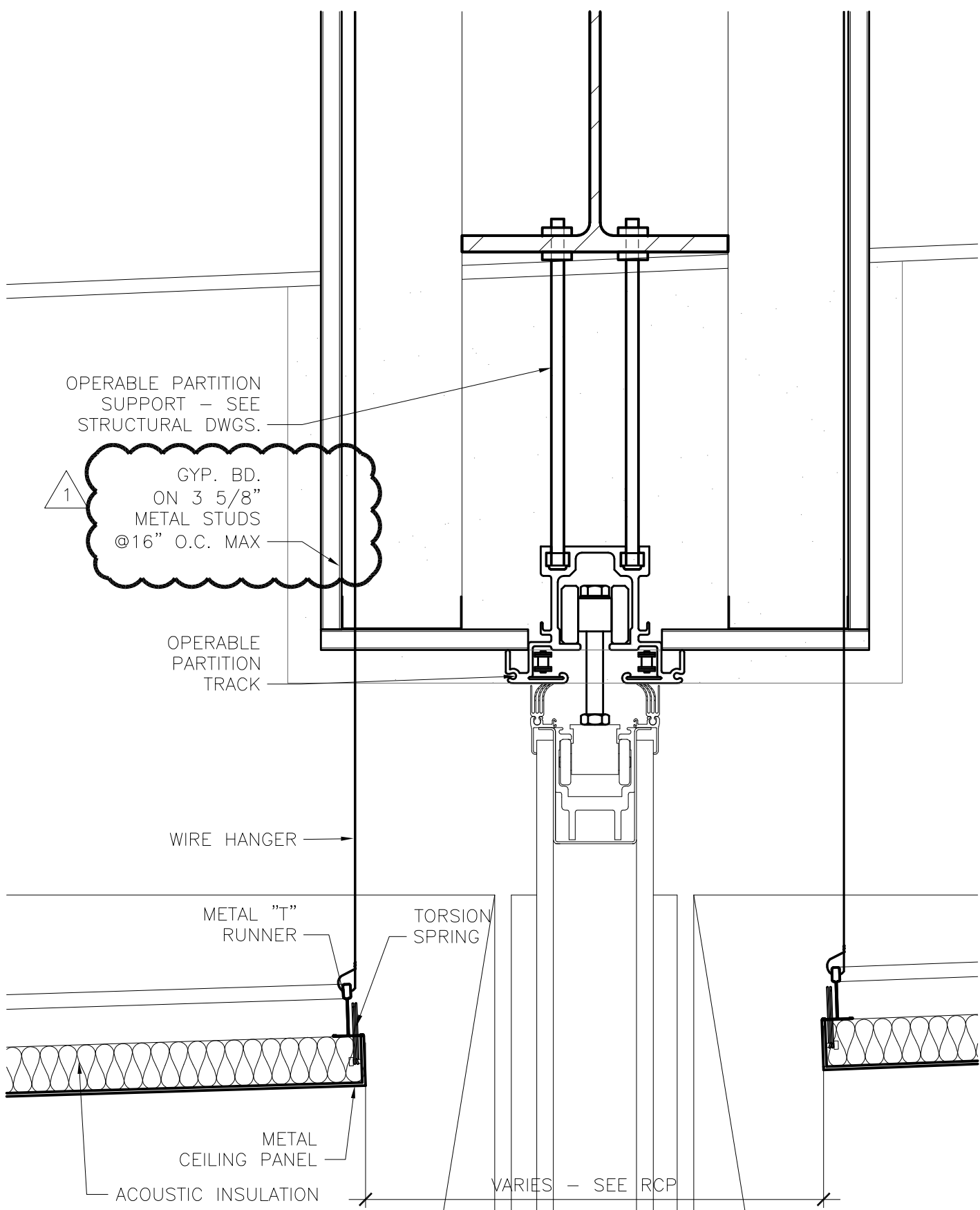
13 DOWNLIGHT AT WOOD CEILING
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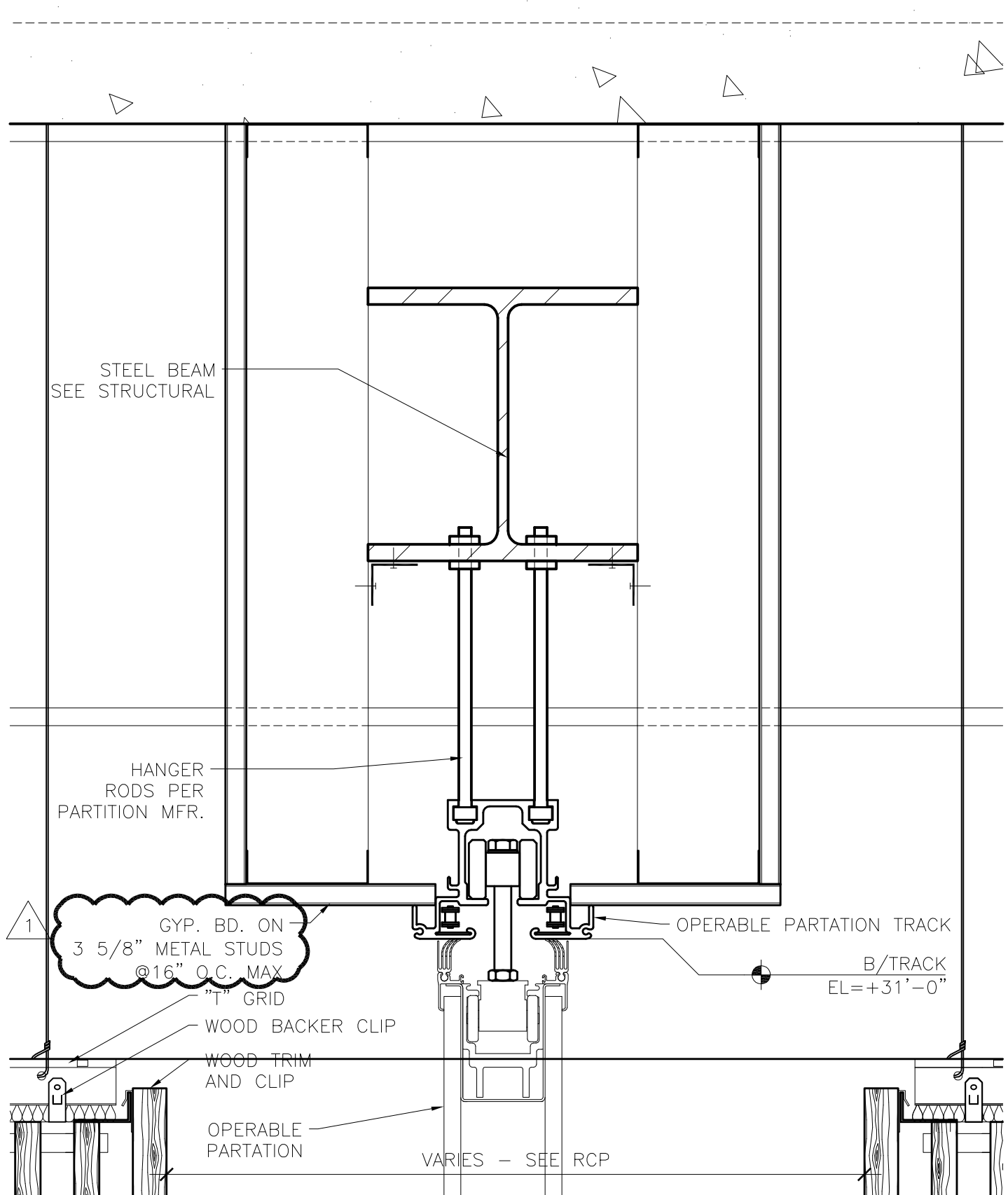
14 DOWNLIGHT AT WOOD CEILING
3" = 1'-0"



4 SECTION DETAIL
SPEAKER AT WOOD CEILING
3" = 1'-0"



12 SECTION DETAIL
AT OPERABLE PARTITION
3" = 1'-0"



10 SECTION DETAIL
AT OPERABLE PARTITION
3" = 1'-0"

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NO.	DESCRIPTION	DATE
1	BUILDING PERMIT	8.16.10
2	100% REVIEW	12.15.10
3	BID PACKAGE 2A	1.24.11
4	BP2A CONFORMANCE SET	5.2.11
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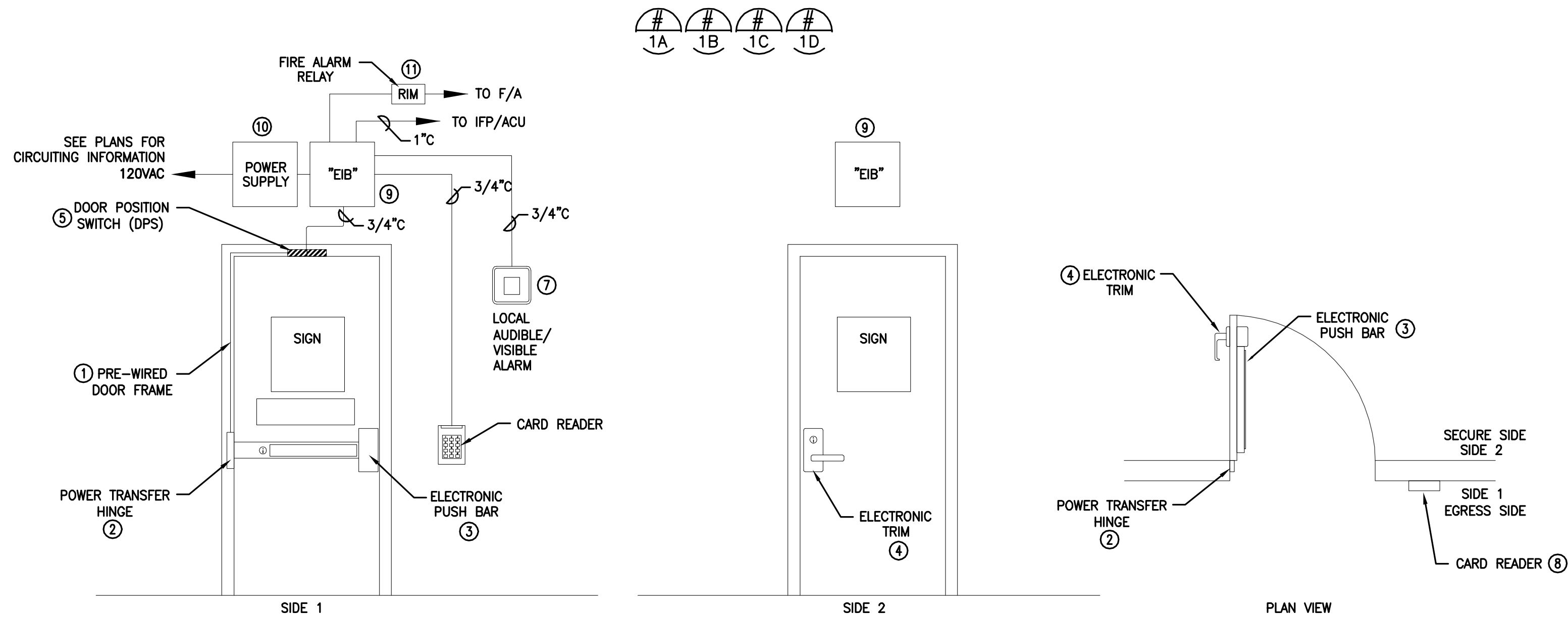
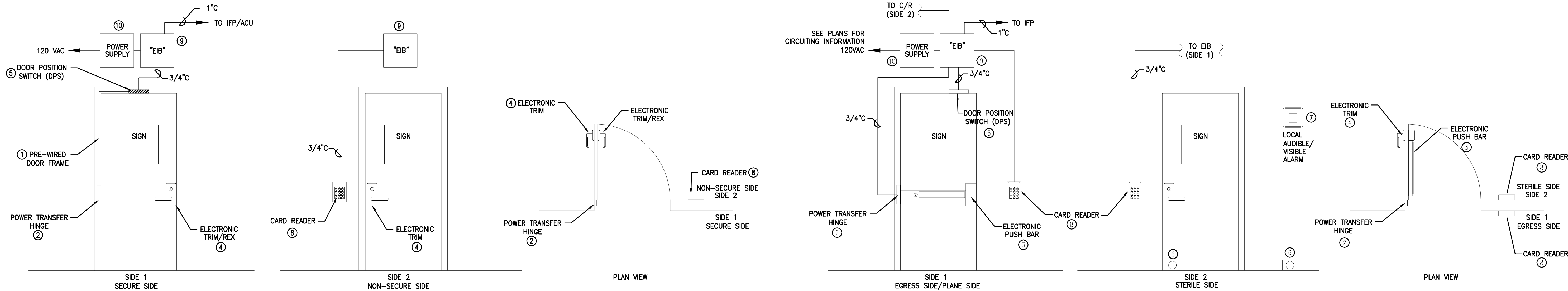
SHEET TITLE

**CEILING
SECTION
DETAILS**

SHEET NUMBER

A622

**BID PACKAGE 2B
ADDENDUM 2**



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DULUTH AIRPORT AUTHORITY

**DULUTH INTERNATIONAL AIRPORT
DULUTH, MN**

NEW PASSENGER TERMINAL

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APPOLD DESIGN
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REVISIONS

NO.	DESCRIPTION	DATE
	100% REVIEW	12.15.10
	BID PACKAGE 2A	01.24.11
1	BP2A ADDENDUM 2	02.25.11
	BP2A CONFORMANCE SET	05.02.11
	BID PACKAGE 2B REVIEW	07.16.11
	BID PACKAGE 2B	08.23.11
2	BP2B ADDENDUM 2	09.15.11

DATE ISSUED: 09-15-11

REVIEWED BY: BA

DRAWN BY: RJL

DESIGNED BY: BA

AMP PROJECT NUMBER
213-1882-001
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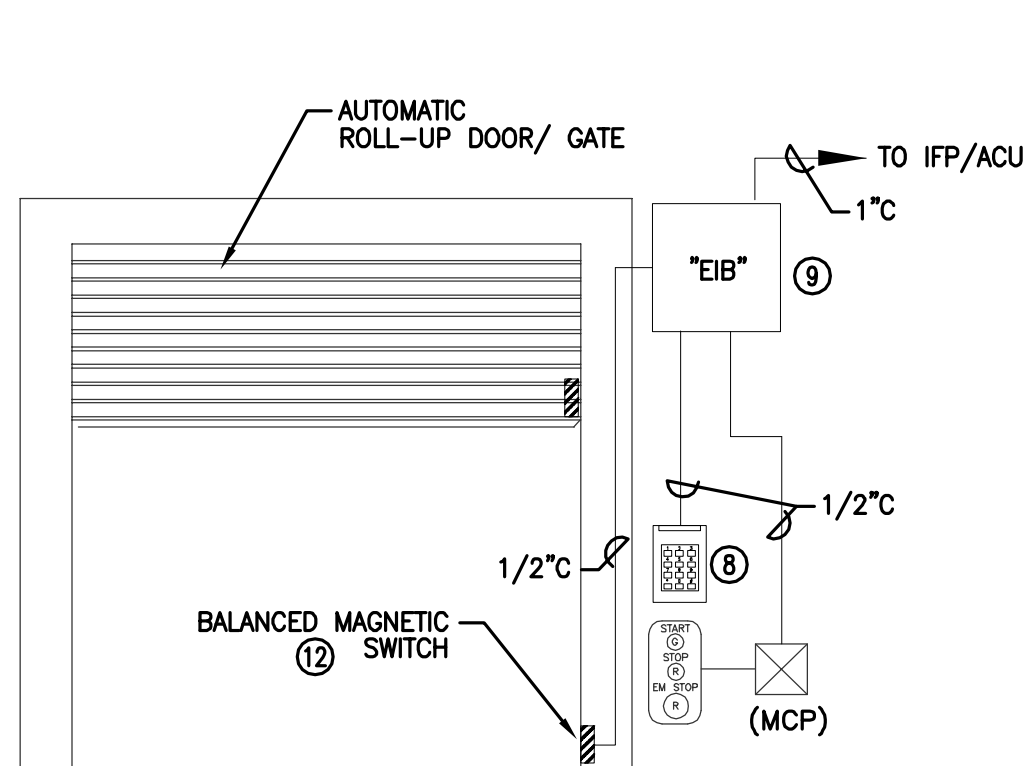
SHEET TITLE
**ACCESS CONTROL
DETAILS**

SHEET NUMBER

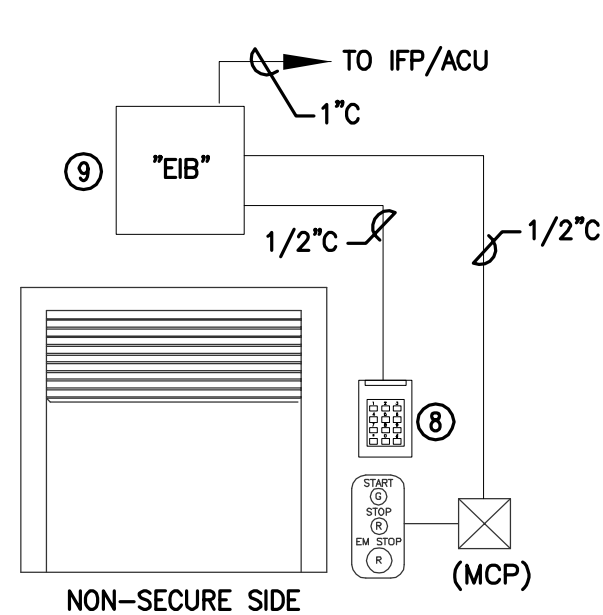
ET503

**BID PACKAGE 2B
ADDENDUM 2**

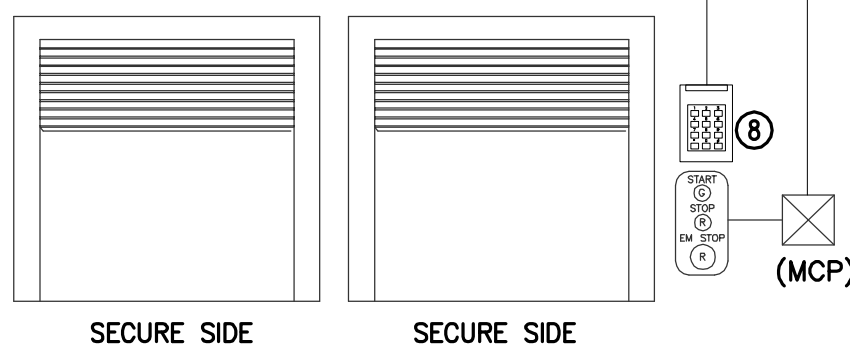
WARNING: THIS RECORD CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR PARTS 15 AND 1520. NO PART OF THIS RECORD MAY BE DISCLOSED TO PERSONS WITHOUT A "NEED TO KNOW", AS DEFINED IN 49 CFR PARTS 15 AND 1520, EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATOR OF THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR OTHER ACTION. FOR U.S. GOVERNMENT AGENCIES, PUBLIC DISCLOSURE IS GOVERNED BY 5 U.S.C. 552 AND 49 CFR PARTS 15 AND 1520.



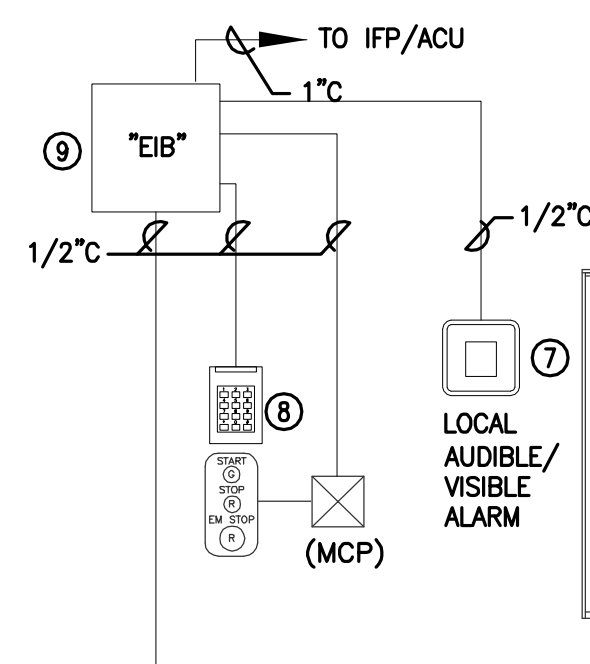
1. INTERFACE THE ACCESS CONTROL SYSTEM OPERATION WITH THE ROLL-UP DOOR/ GATE (MCP). CARD READER SHALL BE USED TO ACTIVATE THE ROLL-UP DOOR CONTROL PUSH BUTTONS. LOCATE CARD READER NEAR ROLL-UP DOOR PUSH BUTTONS.
2. PROVIDE THE OPTION FOR AUTOMATIC OPEN OR CLOSE OF DOOR WITH CARD SWIPE ONLY.



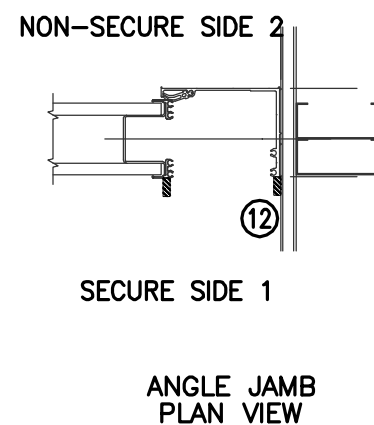
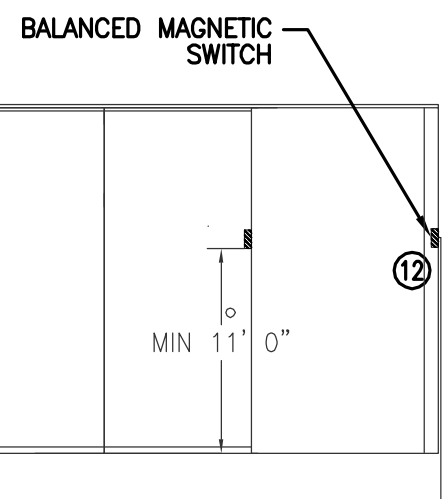
1. INTERFACE THE ACCESS CONTROL SYSTEM OPERATION WITH THE BAGGAGE BELT SYSTEM THROUGH THE BAGGAGE BELT MOTOR CONTROL PANEL (MCP). THE ROLL-UP DOORS SHALL REMAIN OPEN ONLY IF THE BAGGAGE SYSTEM IS OPERATIONAL AND SHALL INDICATE ALARM CONDITIONS IF THE DOOR IS OPEN AND THE BAGGAGE SYSTEM HAS STOPPED FOR AN ADJUSTABLE PERIOD OF 1 TO 15 MINUTES. CARD READER SHALL BE USED TO ACTIVATE THE BAGGAGE CLAIM CONVEYOR CONTROL PUSH BUTTONS.
2. MOUNT THE CARD READER NEXT TO THE CONTROLS FOR THE BAGGAGE SYSTEM.
3. USE BAGGAGE SYSTEM LIMIT SWITCHES TO SENSE DOOR POSITION OTHERWISE PROVIDE WIDE GAP BALANCED MAGNETIC SWITCH.



1. INTERFACE THE ACCESS CONTROL SYSTEM OPERATION WITH THE BAGGAGE BELT SYSTEM THROUGH THE BAGGAGE BELT MOTOR CONTROL PANEL (MCP). THE ROLL-UP DOORS SHALL REMAIN OPEN ONLY IF THE BAGGAGE SYSTEM IS OPERATIONAL AND SHALL INDICATE ALARM CONDITIONS IF THE DOOR IS OPEN AND THE BAGGAGE SYSTEM HAS STOPPED FOR AN ADJUSTABLE PERIOD OF 1 TO 15 MINUTES. CARD READER SHALL BE USED TO ACTIVATE THE BAGGAGE CLAIM DEVICE CONTROL PUSH BUTTONS.
2. MOUNT THE CARD READER NEXT TO THE CONTROLS FOR THE BAGGAGE SYSTEM. COORDINATE LAY-OUT WITH MUFIDS TUG INPUT STATION, 15" MUFIDS MONITOR AND PA MICROPHONE SYSTEM.
3. USE BAGGAGE SYSTEM LIMIT SWITCHES TO SENSE DOOR POSITION OTHERWISE PROVIDE WIDE GAP BALANCED MAGNETIC SWITCH.



1. INTERFACE THE ACCESS CONTROL SYSTEM OPERATION WITH THE ELECTRIFIED PARTITION (MCP). CARD READER SHALL BE USED TO ACTIVATE THE ELECTRIFIED PARTITION CONTROL PUSH BUTTONS. LOCATE CARD READER NEAR ELECTRIFIED PARTITION DOOR PUSH BUTTONS.
2. PROVIDE THE OPTION FOR AUTOMATIC OPEN OR CLOSE OF DOOR WITH CARD SWIPE ONLY.



TYPE 5 ACCESS POINT

ROLL-UP DOOR/ GATE

TYPE 6 ACCESS POINT

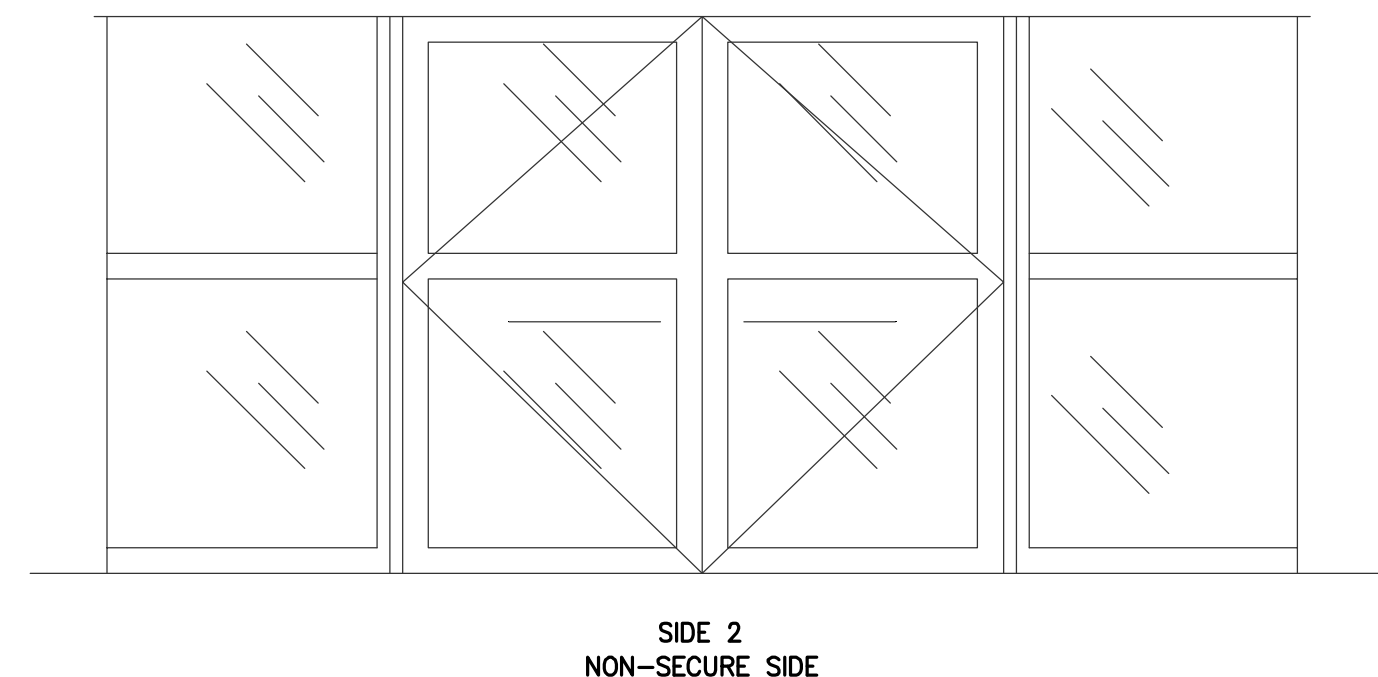
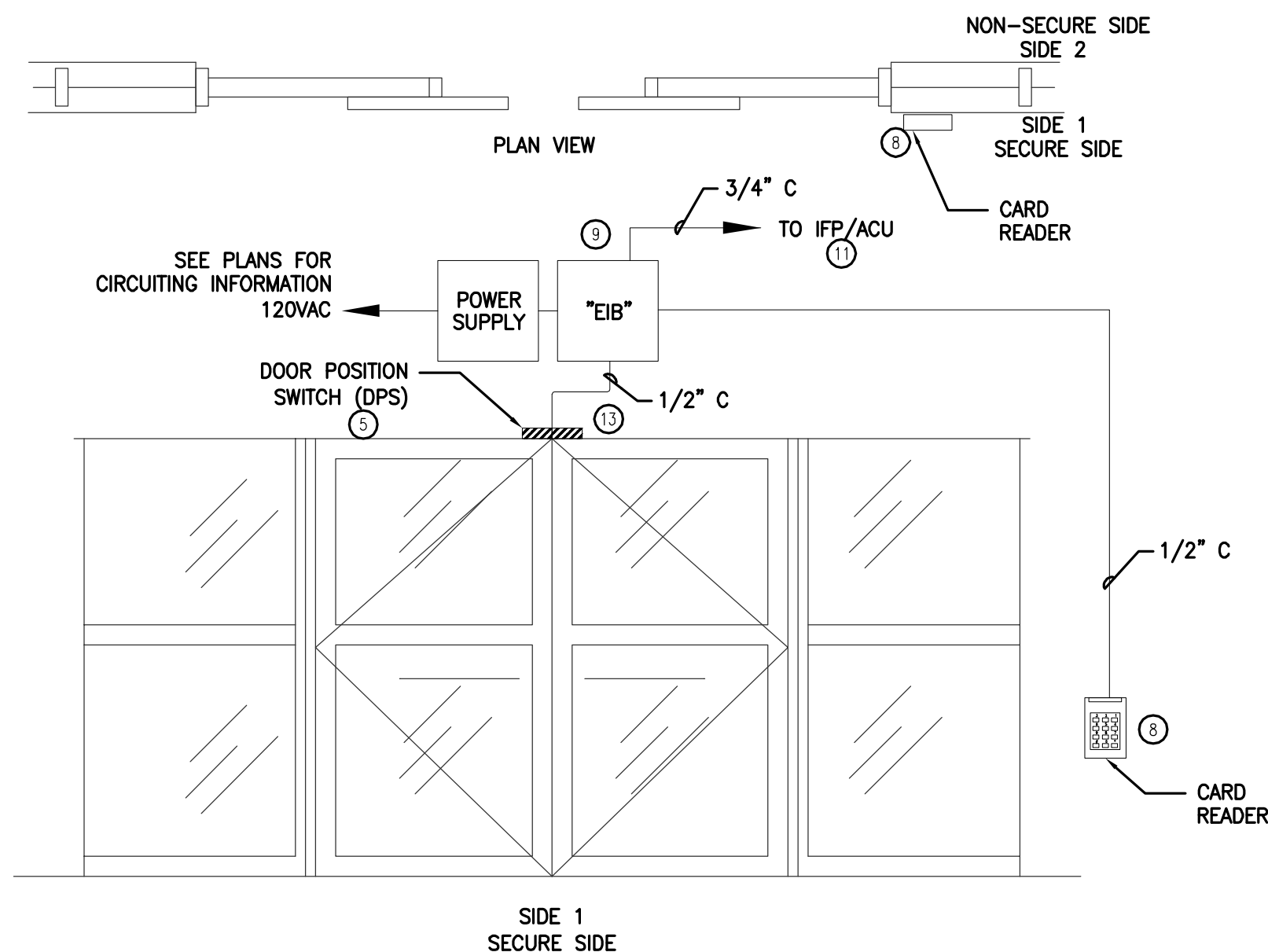
OUTBOUND TICKET COUNTER BAGGAGE BELT

TYPE 7 ACCESS POINT

INBOUND BAGGAGE CLAIM BAGGAGE BELT

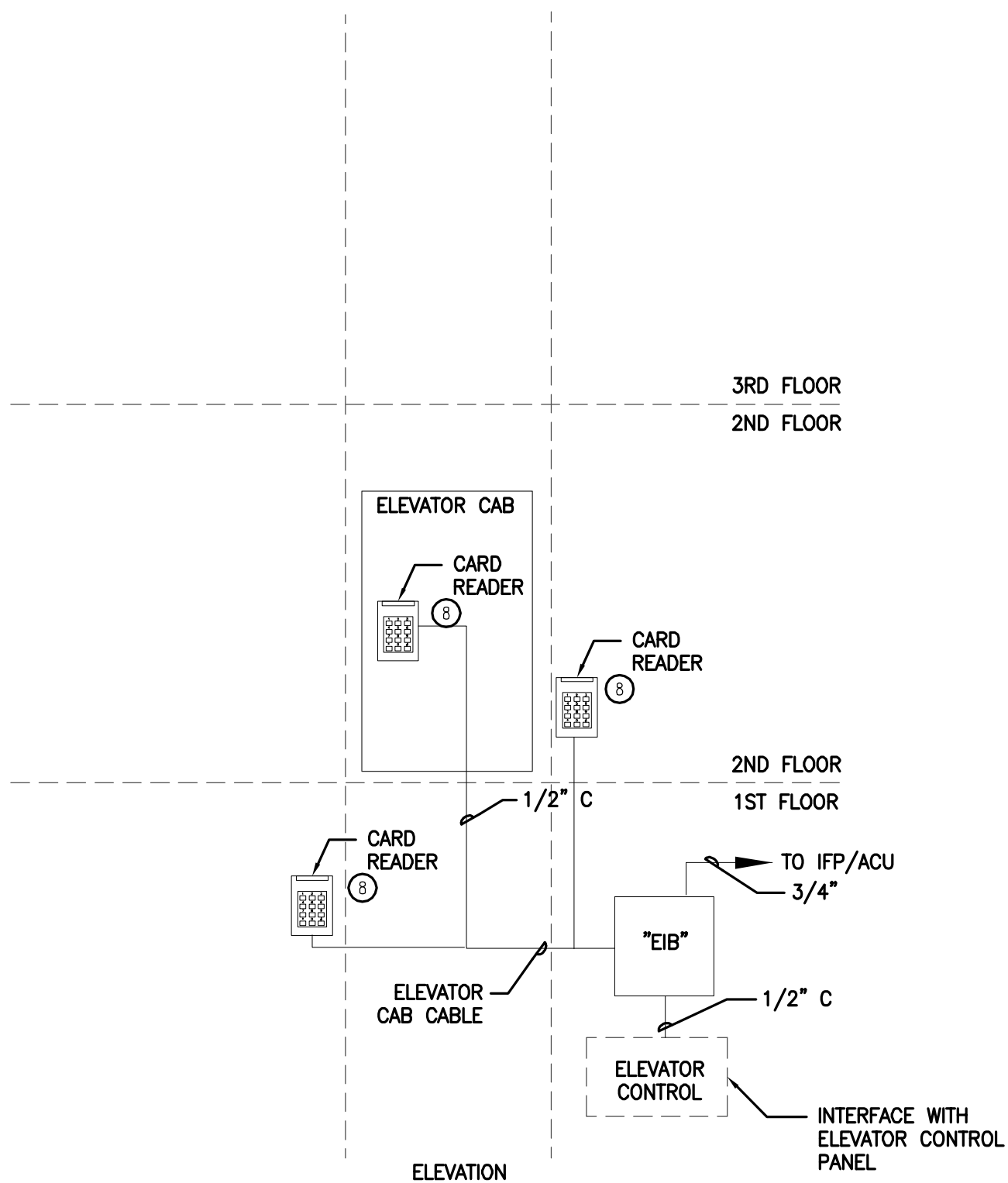
TYPE 8 ACCESS POINT

ELECTRIFIED PARTITION



TYPE 9 ACCESS POINT

SLIDING GLASS TERMINAL DOOR



DOOR OPERATION UNDER ALARM CONDITIONS:

1. FIRE ALARM SHALL RESTRICT ACCESS TO THE ELEVATOR. ACCESS CONTROL SHALL NOT ALLOW ACCESS. FIRE MARSHALL KEY SHALL ALLOW ACCESS BUT PROVIDE ALARM ON ACCESS CONTROL SYSTEM.

TYPE "EL" GENERAL NOTES

1. ADDRESSABLE RELAY WITH N.O. & N.C. DRY CONTACTS TO BE LOCATED IN THE ELEVATOR MACHINE ROOM. THE ACCESS CONTROL CONTRACTOR SHALL INTERFACE WITH THE ELEVATOR CONTROLS SO THE CARD READER WILL ENABLE ELEVATOR CALL BUTTONS FOR USER CONFIGURATION PERIOD OF 1-30 SECONDS.

ELEVATOR SEQUENCE OF OPERATION

PUBLIC OPERATION

1. UNDER NORMAL OPERATION THE ELEVATOR WEST DOORS ARE CLOSED AT ALL TIMES

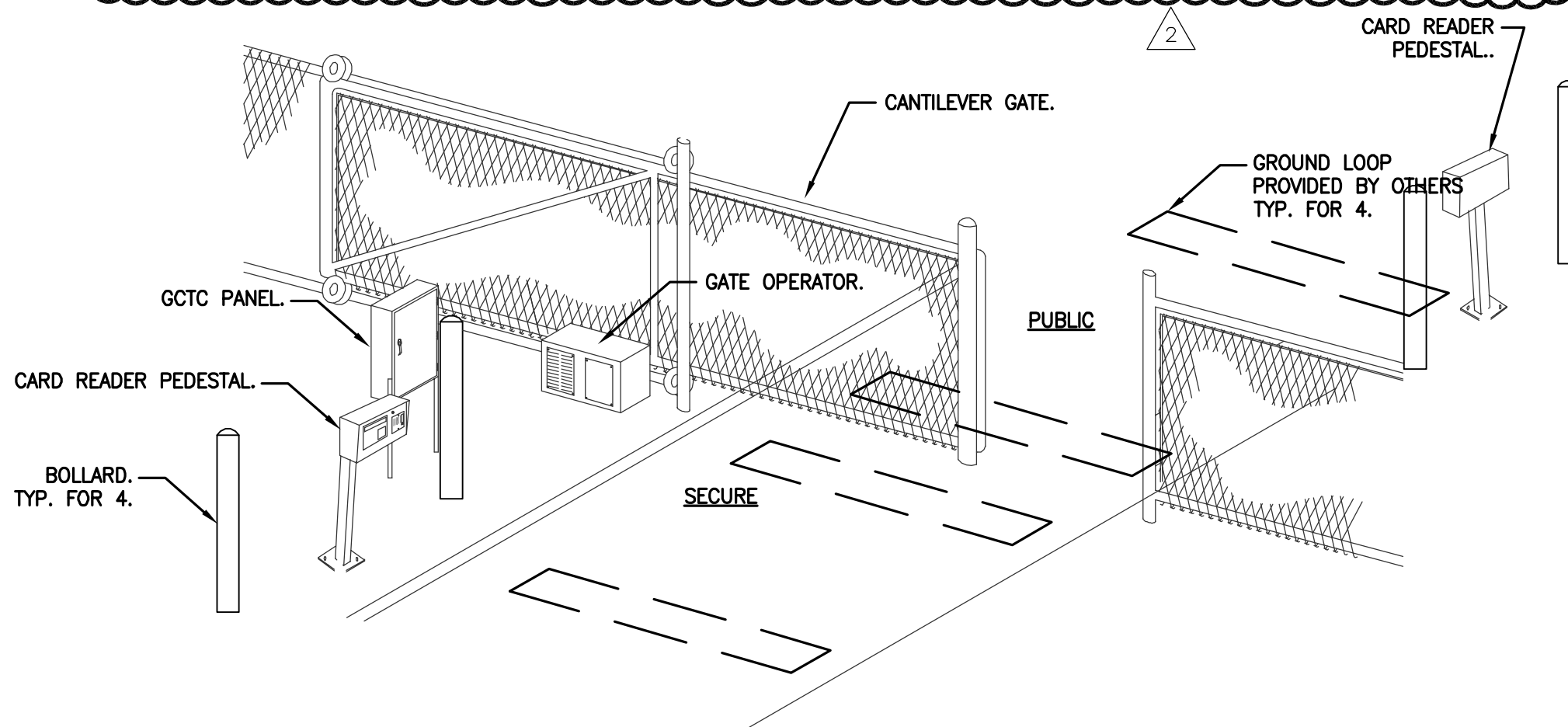
CBP OPERATION

1. UPON CLOSURE OF THE INTERNATIONAL DIVIDING WALLS AND CBP VERIFICATION OF EMPTY CAR, ELEVATOR 154 WILL BE PLACED UNDER CBP CONTROL BY THE IN CAR CARD READER ALLOWING CALLS FROM CORRIDOR 155 OR CORRIDOR 229 PUSH BUTTONS AND PROVIDING ALARM NOTIFICATION THAT THE CAR IS IN CBP SERVICE.
2. "ELEVATOR NOT AVAILABLE" SIGN WILL BE ILLUMINATED AT EAST ELEVATOR DOORS ON THE 1st 2nd and 3rd LEVELS. EAST ELEVATOR DOOR CALL STATIONS FROM BAG CLAIM 116, PASSENGER WAITING 201 AND WAITING 301 SHALL NOT BE ANSWERED UNTIL ELEVATOR IS RETURNED TO PUBLIC USE.
3. IF THE DPS ON EITHER SIDE DIVIDING WALL INDICATES 'OPEN' A CARD ACCESS ALARM WILL SOUND, THE ELEVATOR 154 WILL RETURN TO THE 1st LEVEL & PARK WITH WEST DOORS OPEN.
4. UPON COMPLETION OF INTERNATIONAL PASSENGER PROCESSING, CBP WILL RELEASE ELEVATOR USING THE IN-CAR CARD READER WITH CARD AND PIN # ENTRY WHICH WILL CLOSE WEST DOOR, TURN OFF "ELEVATOR NOT AVAILABLE" SIGN, AND OPEN EAST DOOR.

TYPE EL ACCESS POINT

SECURE ELEVATOR

ACCESS POINT/DOOR HARDWARE SCHEDULE:			
DESCRIPTION	SPEC. #	MANUFACTURER / MODEL	REMARKS
① PRE-CONDUITED DOOR FRAME	-	ASSA ABLLOY / ELECTROLYNX	PROVIDED IN TERMINAL PACKAGE SCOPE
② ELECTRIFIED HINGE	-	ELECTROLYNX QC8 & QC12	PROVIDED IN TERMINAL PACKAGE SCOPE
③ ELECTRONIC PUSH BAR	-	CORBIN RUSSWIN ED5000 SERIES	PROVIDED IN TERMINAL PACKAGE SCOPE
④ ELECTRONIC TRIM	-	CORBIN RUSSWIN ML20900 SERIES	PROVIDED IN TERMINAL PACKAGE SCOPE
⑤ DOOR POSITION SWITCH (BMS)	13700	SECURITRON OR GE DPS	
⑥ MAGNETIC HOLD-OPEN/DOOR RELEASE	-	RIXSON 980	FLOOR MOUNTED
⑦ AUDIBLE/VISUAL ALARM	13700	SYSTEM SENSOR P4R	4 WIRE, WHITE, WALL MOUNTED
⑧ CARD READER	13700	HID RK40	
⑨ ELECTRONIC INTERFACE BOX	13700		READER INTERFACE AND I/O MODULES
⑩ POWER SUPPLY	13700	ALTRONIX AL125UL	1A, 12VDC, 7.2AH BATTERY
⑪ FIRE ALARM RELAY	-	PROVIDE AS REQUIRED	USE TERMINAL PACKAGE FIRE ALARM INTEGRATOR
⑫ WIDE GAP BALANCED MAGNETIC SWITCH	13700	SECURITRON MSS-1	
⑬ TWO POINT LOCK SOLOINOID	8460		
⑭ NETWORKED WIRELESS LOCK (WITH BATTERIES)	-	SCHLAGE AD 400	SMART CARD AND KEYPAD
⑮ PANEL INTERFACE	-	SCHLAGE PIM 400	WITH POWER SUPPLY AS REQUIRED BY FIELD SURVEY



TYPE 12 NOTES:

1. CONTRACTOR SHALL INTERFACE WITH GATE OPERATOR CONTROL PANEL.
2. PROVIDE WIDE GAP BALANCED MAGNETIC SWITCH AT ALL GATE LOCATIONS.
3. PROVIDE RELAYS TO INTERFACE WITH GROUND LOOPS USED AS REQUEST TO EXIT.

TYPE 12 ACCESS POINT

VEHICLE GATE

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REVISIONS

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100%	REVIEW	12.15.10
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1	BP2A ADDENDUM 1	02.25.11
	BP2A CONFORMANCE SET	05.02.11
	BID PACKAGE 2B REVIEW	07.16.11
	BID PACKAGE 2B	08.23.11
2	BP2B ADDENDUM 2	09.15.11

DATE ISSUED: 09-15-11

REVIEWED BY: BA

DRAWN BY: RJL

DESIGNED BY: BA

AMP PROJECT NUMBER

213-1882-091

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SHEET TITLE

**ACCESS CONTROL
DETAILS**

SHEET NUMBER

ET504

**BID PACKAGE 2B
ADDENDUM 2**

**DULUTH INTERNATIONAL AIRPORT
NEW PASSENGER TERMINAL
BID PACKAGE 2B**

Item	Drwg. or Spec. Sect. No.	Bidder Questions	Responses
1.		Titan Energy Systems is a Generac Supplier. They requested that they be added to KA supplier list for interested bidders.	The specification lists Available Manufacturers, not Approved Manufacturers. Any manufacturer's equipment meeting the specified performance criteria may be proposed by the successful bidder subject to the specified submittal process.
2	08801	Specification section can be read that Steel Frame Sidelights, Ornamental Handrails & Railings, and Glass for hydraulic elevator are not to be included in Spec Section 08801 for bidding.	Glass for Steel Frame Sidelights and Ornamental Handrails & Railings is to be provided as part of Work Scope 8.21B. Paragraph C under Article 2.1 of Specification Section 08801 shall be deleted. Elevator hoistway glass is also included in Work Scope 8.21B. Glass which is part of the elevator cab only is to be provided as part of Work Scope 14.20B.
3.		Where is detail 10/A562 used?	It is not used. Please disregard.
4.		Wall Protection – Are there corner guards on this project?	Yes, corner guard locations and sizes have been added in this addendum.
5.		Who furnishes stainless steel strips in toilet rooms?	The stainless steel strips are specified in Section 09310 and provided as part of Work Scope 9.22B.
6.		Who furnishes stainless steel @ columns?	The stainless steel covers at the columns are specified in Section 05700 and provided as part of Work Scope 6.21B.
7.		Are any accessories or toilet partitions in rooms 170 & 171?	No.
8.		Detail 19/A610 shows paper towel dispenser type 11. Is this typical for all hand sinks not inside of the bathrooms?	No.
9.		Question on Wireless Access Points: Is the low voltage wiring being run for these now or would you wait until we know where the access points need to go based on the site survey? Contractor stated that this has been an issue on past projects. – low voltage wiring was not run anywhere near the actual best placement of wireless access point.	Wireless Access Points are to be supplied, located, and wired as a part of BP-2B.

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DOA PROJ. NO. H1097-08

10.		The specifications call for a minimum of 54Mbps to be maintained throughout the facility. Is this a hard spec? What about in elevators?	The wireless accessibility at 54Mbps is required in the public and office areas but is not required in elevators, 3rd floor mechanical rooms, tug tunnel, etc.
11.	WD13.21B	Regarding Work Scope 13.21B, will network switches and redundant power supplies detailed on sheets ET601 and ET603 for access control field panels and IP cameras be provided by WS 13.21B or WS 16.23B?	BP-2A scope note limits work to conduit required by systems. BP-2B includes the equipment, and wiring to complete the systems.
12.	WS13.21B	Are Computer Controlled Access Workstations to be supplied and installed by WS 13.21B or are they to be supplied and installed by WS 16.23B – Administrative Workstations?	Computer Controlled Access Workstations are to be supplied and installed under BP-2B WS13.21B.
13.	WS13.21B	Regarding WS 13.21B – Section 13700: Sheet ET503 – Type 2 Access Point: More info required . Is there a model specified? Is this a battery powered lock to integrate with the CCAS?	Model is Schlage, see addendum 2. Yes, it is battery powered to integrate with the CCAS, see addendum 2.
14.		Details for Baggage X-ray of A562 indicates that stainless steel cladding is to be 8 gauge. Contractor feels this should be increase to 18 gauge?	8 gauge steel is a standard established by U.S. Customs and Border Protection.
15.		The specifications call for the trim around the wall paneling to be extruded. This contractor believes that stainless steel cannot be extruded. Can the specifications be changed to state that bending of stainless steel is acceptable?	The question is incorrect. Section 05700, Article 2.9, Paragraph B states, "Fabricate metal corner trim for paneled walls from stainless-steel sheet, plate, bars or extruded sections to produce the profile indicated."
16.		What is the finish of the knee wall adjacent to the steps?	Finish to match walls.
17.		Wall Paneling Finish – Can architectural samples be provided?	Samples will be provided to successful bidders upon award.
18.	WS14.20B	Access to use elevators as freight elevators:	WS 14.20B – Elevators and Escalators – Contractor is required to provide 1 elevator for construction services at the time of elevator inspector acceptance.
19.	WS12.21B	With most of the seating being on carpet, can these contractors substitute standard carpet glides instead of non-slip glides? Contractor stated that non-slip guides are more expensive and are usually only used on tile flooring	Standard carpet glides may be provided in lieu of specified non-slip glides for all furniture items excluding CH-1. CH-1 to receive non-slip glides.
20.	WS14.21B	To obtain proper heights and spacing for waste and water, what information is the current contractor (WS 15.20A) adhering to?	All information the WS 15.20A is adhering to has been included in the BP2B bid documents. Coordination between bid package 2A contractor and bid package 2b contractor will need to occur.

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21.	WS15.21B	Fixture supports are listed in the plumbing fixture specifications. Are these to be installed by BP-2A - WS 15.20A Contractor?	No, WS 15.21B – Plumbing Fixtures - This work scope includes both plumbing fixtures and carriers (Fixture Supports).
22.	WS15.21B	Plumbing Fixtures: What shower valve is specified to be installed by BP-2A – WS 15.20A Contractor? This matters when selecting showing finishes.	See specifications. Upon contract award, BP-2A – WS 15.20A and BP-2B – WS 15.21B will be required to coordinate through the submittal process to finalize which products and finishes to install.
23.	WS15.21B	Upon completion of the fixture installation, who will be responsible to do a manometer test?	Final manometer test will be conducted by BP-2B – WS 15.21B. BP-2A – WS 15.20A will be required to test and pass all applicable plumbing tests before installing fixtures.
24.		Camera and access control riser and details are shown in the drawings, but contractor could not find anything in the specifications	Specification Section 13700 in conjunction with drawings.
25.	13700	ET603, Keynotes 12 and 16: These notes mention existing analog cameras and the implementation of encoders. There are no analog cameras called out on the camera schedule. Please Clarify	Keynotes 12 & 16 are to be revised to read: Not Used – see addendum 2.
26.	13700	ET413: What is the purpose of the EIB(s) that are not associated with the a card reader door? – Future use?	EIB boxes house access control door controllers and power supply for card reader controlled portals.
27.	13700	ET601 – The one to one relationship between the EIB and IFP is not clear, as the IFP is a 16 card reader panel. Please clarify	The IFP is the access control system interface and may control up to 16 portal card readers (Keynote 2-ET601). The EIB is typically provided for each portal (Keynote 4-ET601 & see details on ET503 & ET504).
28.	13700	ET601, Keynote 13: states, "Qty. 3 CAT 6 Cables". Is this a typo? Should this be only 2 CAT 6 Cables? Please confirm.	Provide three CAT6 cables as specified.
29.	13700	13 Par. D.3 – Does this programmer's terminal require a work station?	Computer controlled access workstations are included as part of 13700.
30.	13700	"Airport Security Center" is referred to in the specifications. Where is this located on the plans? Please clarify.	Airport Security Center is located in Room 213 – Airport Police.

BID PACKAGE 2B
DOA PROJ. NO. H1097-08

31.	13700	2.13 – C – 18 “Extended, on Demand, Door Held Open Times. This feature generally requires a more elaborate reader than those specified	See Specification 13700, paragraph 2.13 – SOFTWARE REQUIREMENTS, Sub-paragraph C – CCAS Software Functionality, point 18 requires the door hold-open time before alarm to be adjustable by keypad input by authorized card holders. No special hardware required.
32.		Plan Sheet ET503, Type 2 Access Point detail calls for “Battery Powered” card readers. There is no criteria given in the Plans or Specifications for these devices. There is nothing to identify that these must be compatible with or connected to the Computer Controlled Access System. There needs to be clarification as to how these devices are expected to operate. i. Are these to be fully controlled and monitored by the CCAS? ii. How are these to communicate with CCAS; wireless, portable programmer, or other? iii. If wireless, is there any criteria for the wireless infrastructure used? Can the Duluth International Airport’s wireless Ethernet be used or is a dedicated system required? iv. Can these be “off line” devices that go active when in use or by time? (Typical for battery powered units) v. Can hardwired, non-battery devices be used in lieu of battery powered? vi. Do these readers require a keypad?	These locks must be compatible with and are a part of the CCAS and are identified as a ‘Type 2’ Access Point and are included in the Access Point Schedule on ET600. i. Yes ii. Communication is via wireless interface – see addendum 2 iii. Type 2 locks must communicate with the CCAS by any protocol permitted by the specification. The particular protocol will depend on the lock system manufacturer. A dedicated system is not required unless required by manufacturer. iv. Yes, CCAS communication is not required to be “on line”. v. Yes provided they meet the specifications. Lock system must be coordinated with the door hardware supplier. vi. All card readers are required to include a keypad.

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33.		Plan ET603, Notes 2.L & M. Specifies "IP SAN Shall be Intransa...." The specifications 13700 – 2.3 – A – 2 allows for other manufacturers of CCTV Storage & Analytics. Please omit items L. and M. requiring Intransa product in Notes for Plan ET603.	See General Note 6 ET603. Alternative IP SAN system must be equivalent in quality and performance. 13700 – 2.3,A,2,a is deleted see addendum 3.
34.		On page A802 under millwork finish schedule – room 160 AG LAB – it states all material to be SST. Floor plan and sections 1,2,3 A560 all the millwork is called out as P. Lam.	The premise is in error. The floor plan does not indicate millwork finish and the elevations indicate finish "as scheduled". Provide stainless steel on all exterior surfaces.
35.		Where in the plans is the interior signage called for? Are there any exterior signs in this bid package?	Signage is shown on the drawings on Sheets G001 – G205.
36.		Will the Owner provide CAT 5/6 drop off with active internet data line at the display locations? CAT 5/6 drop offs with active data at the display location is essential for a vender offering off-site server MU-FIDS option to be evaluated on the same level playing field to another vendor offering an on-site server option.	See General Note 6 ET603. Alternative IP SAN system must be equivalent in quality and performance. 13700 – 2.3,A,2,a is deleted see addendum 3.
37.		Please confirm that there are a total of 29 MUFIDS?	See ET 602 – MUFIDS Riser, MUFIDS DISPLAY SCHEDULE table
38.		For the FID-5, FIC-10, FID-15, FID-25 marked as "Provided by Owner" in the "Remarks" column, what does the Owner provide? Does the owner provide installed displays with the mount?	Owner will supply the monitor with mounting. Contractor is to provide wiring, hookup, and test.
39.		What are the monitor size & type and mount type & model for FID-14, FID-27, FID-28, and FID-29?	See ET 602 – MUFIDS Riser, MUFIDS DISPLAY SCHEDULE table. FIDS 27, 27, & 29 are 'virtual' display feeds to OPS-x Monitors. See ET605.
40.		Is IVRS required, even though it is considered in the industry as obsolete?	Yes.
41.		Specifications mention Video Extenders, NEC Naviset Software, Baluns etc. This is not applicable to ProDIGIQ's innovative architecture and technology. Are these a must have?	Provide only equipment required for FID system being bid.
42.		Advanced systems go to sleep mode and re-start before the TSA line opens in the morning to conserve electricity for the Airport. This also enhances the life of the TV's. In addition, we remotely monitor each and every system and proactively address any issue before Airport learns about it. Therefore, there is no need and we do not offer 24-hour toll free help desk. We do offer help desk support during regular business hours. Is a 24-hour toll free help desk required?	Yes.

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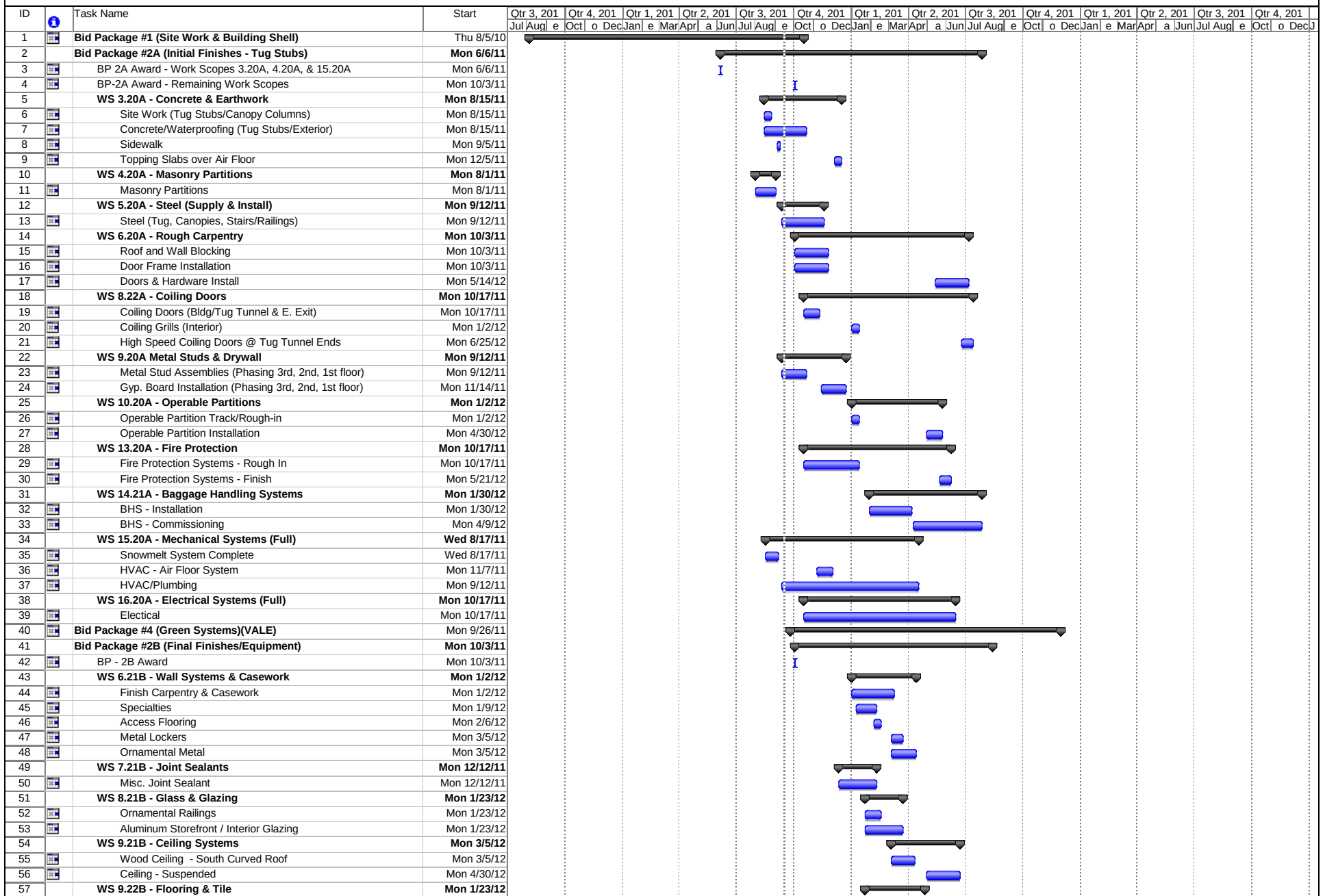
43.		ProDIGIQ's advanced systems including hardware and software are updated and upgraded remotely on an ongoing basis as part of our all-inclusive service model for best system performance. Therefore, there is no need for a site visit to make the upgrades and updates. Is this acceptable?	See Specification 13742 – 1.9 B. ' . . . If required by the airport'
44.		On the casework sections, it calls out plywood construction on the cabinets; can we use AWI Spec. Material – High density particle board with a melamine finish?	Particle board may be used in lieu of plywood to the extent allowed by specification Section 06402 and the standards referenced therein.
45.		Wall Paneling Finish: Spec calls for stain to match architect's control sample and plan schedule calls for "clear finish". Please clarify finishes on wall panels.	Provide natural finish with clear coat.
46.		Have the elevator hoistways been constructed to the dimensions shown on the BP-2B plans? Specifically – Clear hoistway dimensions, pit depths, and clear overhead dimensions.	The BP-2B drawings reflect the design intent. To the best of our knowledge, the hoistways and pits meet that intent within standard allowable tolerances. Contractors shall be responsible for verifying conditions are suitable prior to commencing their work.
47.		Does Work Scope 16.23B Network Systems include section 16710 – Premise Distribution Systems? If so, this was not included in BP-2B Documents.	16710 may be included for reference only. Premise Distribution System included in BP-2A work scope.
48.	16715	In meetings with RS&H, Citon asked about using another brand to what was specified for Network System Equipment, and RS&H sounded okay with it. Is it safe to assume that specified equipment (Brand and/or Model) could all have the suffix "or equivalent"?	Substitution of Brand / Model will be considered.
49.	16715	Plans calls for an installer with Cisco Certified Inter-networking Engineer (CCIE) Certification. Does this mean "or experience equal to that"?	Certification on equipment being supplied/used is required.
50.	16715	Regarding Administrative Workstations. Will substitution request be accepted as long as the alternate manufacturer meets all performance criteria?	Alternate manufacturer will be considered. Decision will be by the A/E.
51.		On Sheet A801 – Rms 320 and 322 are listed as blackout roller shades and blinds. Where in the room are the blinds and where are the roller shades? In the rooms with blinds, do the sidelights receive some type of window treatments?	All exterior glazing in Rooms 320 and 322 receive both blinds and blackout roller shades. The interior sidelights received neither blinds nor blackout roller shades.
52.		On Sheet A301 – South Elevation – the hatched area where window treatments go is shown to be curved. MCI Floor & Home claims that they do not have a curved roller shade. What is the design intent?	The design intent is that the roller shades be of widths corresponding to the distance between vertical mullions and be of varying lengths and staggered vertically to correspond to the varying window heights.
53.		Minnesota Elevator asked if they can bid only the elevators and exclude escalators.	No, must bid the entire Bid Package. Prime bidders are

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			responsible for the entire work scope they are bidding.
54.		Public Seating Question from Arconas – Due to the nature of the furniture being custom manufactured with the specific finishes to this airport, our standard payment terms are 1/3 with order, 1/3 upon shipping, and 1/3 Net 30 days. Will this be acceptable?	No, see payment terms in specifications
55.		Is the airport project tax exempt?	No, State Sales tax must be included. The project is exempt from city sales tax.
56.	12500	Lakeside Litter & Plaza Planter are called for in Spec Section 12500. Is it your intent that these be bid with public furniture? If so, where are they shown on the plans?	They are shown on the Furniture Plans, Sheets A811 – A818.
57.		Rooms 201 and 202 – Roof finish schedule says BPT3A and finish plan says CPT3. Which is desired?	CPT-3A
58.		Public Furniture Question – Do contractors need to offload or will a forklift be available for contractors use	Each contractor is responsible for offloading, storage, and transportation around the site.
59.		Public Furniture Question – Can contractors assemble seats in the New Terminal	Yes, in tug tunnel
60.		Will contractors be responsible for costs of disposal of shipping and packing material?	No, Kraus-Anderson is responsible for waste management services.
61.		On the finish schedule A802 the countertops for CBP 237 are called out as corian, but the sections on A566 calls the tops out as p. lam. Which is required?	Plastic laminate.

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OVERALL PROJECT SCHEDULE - BP-2B ISSUE FOR BID - Addendum No. 2



OVERALL PROJECT SCHEDULE - BP-2B ISSUE FOR BID
ADDENDUM No 2
9-15-11



