### Jefferson Office Park Office Building Type 1 1030 Johnson Road Golden, Colorado 80219

### **CODE ANALYSIS** Sheet Index City of Golden Planning & Development Department, 303.384.8097 w/o Area Modifications (per Table 503) Prior to starting construction, the General Contractor shall obtain all permits required Steve Glueck, Planning & Development Director, 303.384.8095 Business Group B, Type V-B Construction Egress width per occupant served w/ sprinkler system Civil Sheets: by regulatory authorities. No construction or fabrication of any item should begin until per Table 1005.1 = 0.2 in./occupant (Stairway) 12 Ward Ct. City of Golden Building Department, 303.384.8151 2 stories w/ maximum height of 40' Cover Sheet the General Contractor has received all documentation from regulatory authorities. 9,000 sq. ft. per story 100 occupants x 0.2 in./occupant = 20" Horizontal Control Plan Failure of the General Contractor to follow this procedure shall cause the General 18,000 sq. ft. total building area Initial Erosion Control Plan Contractor to assume full responsibility for subsequent modifications of work Jerry Stricker, Fire Marshal, 303 384 8093 Interim Erosion Control Plan Egress width per occupant served w/ sprinkler system mandated by regulatory authorities. City of Golden Engineering Department, 303.384.815 w/ Area Modifications: Vince Auriemma, City Engineer, 303.384.8156 Frontage increase (per Sec. 506.2): 100 occupants x 0.2 in./occupant = 20" The General Contractor shall be responsible for providing all materials and workmanship in accordance with all Federal, State and Local codes, laws, ordinances First Floor: **General Contractor:** If = (F/P - 0.25) W/30Business Group B Erosion Control Details and Notes Applicable Codes: F = 418'-8" or 418.67', P = 418'-8" or 418.67', W > 30' and regulations applicable to this project. Golden Builders, Inc. International Building Code, 2006 Edition Egress width per occupant served w/ sprinkler system Overlot Grading Plan Accessible and Usable Buildings and Facilities, ICC/ANSI A117.1-2003 per Table 1005.1 = 0.15 in./occupant (Other egress 195 S. Union Blvd. Suite 180 If = (418.67'/418.67' - 0.25) 30'/30' = 0.75Do not scale any drawings. The Contractor shall verify all dimensions prior to the start Finish Grading Plan Lakewood, CO 80228 ADA Accessibility Guidelines for Buildings and Facilities Automatic sprinkler system increase (per Sec. 504.2): of construction and notify the Architect of any discrepancies so that the design may be Overall Utility Plan International Fire Code, 2006 Edition Drainage Outfall Plan and Profile 303.482.1809 telephone 3 stories w/ maximum height of 60° 200 occupants from second and third floors and 100 International Energy Conservation Code, 2006 Edition Storm Drain Plan and Profile - North 303.459.7929 facsimile Automatic sprinkler system increase (per Sec. 506.3): occupants from first floor = 300 occupants Dimensions shall be to either the centerline of a column; edge or face of steel stud International Mechanical Code, 2003 Edition Allowable area increase per story of 200% (Is = 2) 300 occupants x 0.15 in./occupant = 45" Storm Drain Plan and Profile - Center Doug4E@comcast.net framing: face of concrete or masonry wall: extent of a finish, location of or clearance Storm Drain Plan and Profile - South International Plumbing Code, 2003 Edition Allowable area per story w/o automatic sprinkler system increase: required for a fixture; centerline of exposed tee ceiling grid or light fixture; edge of International Fuel Gas Code, 2006 Edition At = 9.000 sq. ft.. If = .75Exits Required: Third Floor: Business Group B Sanitary Sewer Plan and Profile door, door light or aluminum storefront framing; floor, roof or parapet line; top or Joe Haezebrouck, RA, NCARB National Electrical Code, 2005 Edition $Aa = At + (At \times If)$ 2 exits required where occupant load exceeds 49 for Post Office Drive Modifications bottom of doors, windows and pilasters unless noted otherwise. Haezebrouck & Associates, P.C. Aa = 9,000 sq. ft. + (9,000 sq. ft. x. 75)Business Group B occupancy per Table 1015.1 and The General Contractor shall coordinate the work to be completed by all trades. 1543 Sunset Ridge Road New three story office building Aa = 9,000 sq. ft. + 6,750 sq. ft.less than 500 per Table 1019.1 Highlands Ranch, CO 80126-2681 The General Contractor shall verify the location of all utilities, connect the secondary Golden Standard Details Aa = 15,750 sq. ft. per storyThird floor occupant load = 100 occupants 303.470.7872 telephone utility lines from the building to the primary service location, unless directed otherwise 1030 Johnson Road, Golden, CO 80401 Allowable floor area w/o automatic sprinkler system increase: 49 occ. < 100 occ. < 500 occ. = 2 exits required Golden Standard Details 2 303.470.7874 facsimile Aa = 15.750 sq. ft. per story Second Floor: Business Group B by the utility having jurisdiction. The General Contractor shall be responsible for all Golden Standard Details 3 303.880.2246 cell Legal Description: A PORTION OF LOT 1, BLOCK 1, GOLDEN DEVELOPMENT SITE 15,750 sq. ft. x 3 = 47,250 sq. ft. total building area 2 exits required where occupant load exceeds 49 for fees related to such work. Golden Standard Details 4 j.f.haezebrouck@comcast.net SUBDIVISION, AS RECORDED IN THE RECORDS OF JEFFERSON Allowable area per story w/ automatic sprinkler system increase: Business Group B occupancy per Table 1015.1 and The General Contractor shall maintain a clean construction site and remove all Golden Standard Details 5 COUNTY, COLORADO IN BOOK 98 AT PAGE 47, RECEPTION NO. At = 9.000 sq. ft., If = .75, Is = 2less than 500 per Table 1019.1 construction debris from the site. The Contractor shall provide dumpsters, or other Landscaping: CAD Consultant: 88093385, DESCRIBED AS FOLLOWS: $Aa = At + (At \times If) + (At \times Is)$ Second floor occupant load = 100 occupants means of trash disposal, on site as needed for the timely removal of trash and debris. Landscape Notes & Details Doug Forry 10251 S. Nickolas Ave. Aa = 9.000 sq. ft. + (9.000 sq. ft. x .75) + (9.000 sq. ft. x 2) 49 occ. 100 occ. < 500 occ. = 2 exits required Refer to Wall Types for specific wall construction. Landscape Plan Aa = 9,000 sq. ft. + 6,750 sq. ft. + 18,000 sq. ft.BEGINNING AT THE SOUTHWEST CORNER OF SAID LOT 1; THENCE First Floor: Business Group B Refer to the Door and Window Schedules for general door, hardware and window Architectural: Highlands Ranch, CO 80130 NORTH 89 DEGREES 58 MINUTES 30 SECONDS EAST ALONG THE Aa = 33,750 sq. ft. per storyTenant Space 100 specifications. Refer to Finish Schedule for general floor, wall and ceiling finish 1st Floor Plan 303.482.1809 telephone 1 exit permitted when occupant load is less than SOUTH LINE OF SAID LOT 1. A DISTANCE OF 419.55 FEET TO THE Allowable floor area w/ automatic sprinkler system increase: 2nd Floor Plan 303.723.5503 facsimile SOUTHEAST CORNER OF SAID LOT 1; THENCE NORTHERLY Aa = 33,750 sq. ft. per story 49 for Business Group B occupancy per Table 3rd Floor Plan 10. Fire alarm and sprinkler systems, security systems, or other similar systems, and any Doug4E@comcast.net ALONG THE EAST LINE OF SAID LOT1, THE FOLLOWING TWO (2) 33,750 sq. ft. x 3 = 101,250 sq. ft. total building areaRoof Plan engineering required for these systems, if required by the governing jurisdiction or Tenant Space 100 occupant load = 40 1st Floor Core Plan & Toilet Room Elevations Mechanical Engineer Building Owner, shall be the responsibility of and be coordinated by the General Actual Floor Area: First Floor .. 10,030 sq. ft. 40 occ. < 49 occ. = 1 exit required Second & Third Floor Core Plans Peter F. McDonald, PE 1) NORTH 01 DEGREES 03 MINUTES 30 SECONDS EAST, Second Floor . 10,030 sq. ft. Tenant Space 180 Reflected Ceiling Plans 10,030 sq. ft 30,090 sq. ft 11. The General Contractor shall be responsible for and coordinate the building McDonald Consulting + Design 391.39 FEET: Third Floor 1 exit permitted when occupant load is less than Finish & Door Schedules; Door Frame & 2) THENCE NORTH 00 DEGREES 04 MINUTES 14 SECONDS Total Actual Floor Area 49 for Business Group B occupancy per Table 10698 Amesbury Way communication and cable service requirements with the Building Owner. Window Types EAST, 172.68 FEET, MORE OR LESS, TO A POINT FROM Highlands Ranch, CO 80126 12. The General Contractor shall provide fire extinguishers in recessed cabinets, of the Exterior Elevations WHICH THE NORTHEAST CORNER OF SAID LOT 1 BEARS Third Floor: Business Group B Tenant Space 180 occupant load = 41 303.875.9293 telephone type and in the locations required by the Fire Protection District and selected by the NORTH 00 DEGREES 04 MINUTES 14 SECONDS EAST, Building Sections Occupant load factor — Business areas per 41 occ. < 49 occ. = 1 exit required 303.346.8549 facsimile Stair Section & Core Wall Section 552.06 FEET; Table 1004.1.1 = 100 gross sq. ft./occupant Accessory Area mcdesign@qwest.net **13.** The General Contractor shall coordinate and provide a complete and finished project Floor area = 10, 030 gross sq. ft. 2 exits required where occupant load exceeds 49 Core Wall Details as shown on the Architectural, Structural, Mechanical, Plumbing and Electrical THENCE NORTH 89 DEGREES 39 MINUTES 15 SECONDS WEST Core Wall Details & Typical Wall Sections 10,030 gross sq. ft./(1 occupant/100 gross sq. ft.) =for Business Group B occupancy per Table 1015.1 **Electrical Engineer:** BEING PARALLEL WITH THE NORTH LINE OF SAID LOT 1, A 100.3 occupants, use 100 occupants and less than 500 per Table 1019.1 Wall Section Details 14. THE AMERICANS WITH DISABILITIES ACT: Dave Kazin, PE Second Floor: Business Group B DISTANCE OF 557.34 FEET; THENCE SOUTH 63 DEGREES 38 Accessory Area occupant load = 300 The Americans with Disabilities Act (ADA) requires the removal of architectural barriers Kazin & Associates MINUTES 50 SECONDS WEST (RADIAL LINE), 169.22 FEET TO THE Occupant load factor — Business areas per 49 occ. 300 occ. < 500 occ. = 2 exits required S1.0 Cover Details in existing and new facilities where such removal is "readily achievable". The Building 5031 S. Ulster St., Ste. 160 WEST LINE OF SAID LOT 1; THÈNCE SOUTHEASTERLY ALONG SAID Table 1004.1.1 = 100 gross sq. ft./occupant S2.0 Foundation Plan Denver, CO 80237 Floor area = 10, 030 gross sq. ft. Owner acknowledges that the definition of "readily achievable" as contained in the WEST LINE, THE FOLLOWING TWO (2) COURSES: Exits Provided: Third Floor: Business Group B S2.1 Second Level Framing Plan 720.489.1609 #1 telephone ADA is flexible and subject to interpretation on a case-by-case basis. The 10,030 gross sq. ft./(1 occupant/100 gross sq. ft.) = 2 exits provided, total exit width provided = 72" S2.2 Third Level Framing Plan 1) SOUTHEASTERLY ALONG A CURVE TO THE LEFT, THE Second Floor: 720.489.1611 facsimile 100.3 occupants, use 100 occupants Business Group B requirements of the ADA will therefore be subject to various and possible contradictory S2.3 Roof Framing Plan 2 exits provided, total exit width provided = 72" TANGENT OF WHICH BEARS SOUTH 26 DEGREES 21 dkazin@dmka.com Business Group B: interpretations. The Architect shall use reasonable professional efforts and judgment S3.0 Foundation Details MINUTES 10 SECONDS EAST, HAVING A RADIUS OF 450.00 Occupant load factor - Business areas per Business Group B to interpret and incorporate applicable ADA requirements, and advise the Building S3.1 Framing Details FEET, A CENTRAL ANGLE OF 21 DEGREES 40 MINUTES 03 Table 1004.1.1 = 100 sq.ft./occupant Tenant Space 100 Structural Engineer Owner regarding modifications to the Building Owner's facility space that may be S3.2 Framing Details SECONDS, FOR A DISTANCE OF 170.18 FEET TO APOINT 5 exits provided, total exit width provided = 288" Tenant Space 100 floor area = 4,023 gross sq. ft. required in order to comply with the ADA. Such interpretation and advice shall be Stan Neujahr, PE S3.3 Framing Details OF REVERSE CURVE; 4,023 gross sq. ft./(1 occupant/100 gross sq. ft.) = Tenant Space 180 Neujahr & Gorman based upon what is known about the ADA at the time that professional service is 2) THENCE SOUTHEASTERLY ALONG A CURVE TO THE 5 exits provided, total exit width provided = 288" 40.02 occupants, use 40 occupants S4.0 Frames/Columns Schedule 80 Steele St. #200 rendered. The Architect however, cannot and does not warrant or quarantee that the RIGHT, HAVING A RADIUS OF 550.00 FEET, A CENTRAL Tenant Space 180 floor area = 4,102 gross sq. ft. Mechanical: Denver, CO 80206 Building Owner's facility will fully comply with interpretations of the ADA requirements ANGLE OF 42 DEGREES 40 MINUTES 45 SECONDS FOR A 2 exits provided, total exit width provided = 108" 4,102 gross sq. ft./(1 occupant/100 gross sq. ft.) = M1.1 HVAC Schedules 303.377.2732 telephone rendered by regulatory authorities or court decisions. DISTANCE OF 409.69 FEET TO THE POINT OF BEGINNING, 41.02 occupants, use 41 occupants M2.1 First Floor Plan – HVAC 303.377.4573 facsimile COUNTY OF JEFFERSON, STATE OF COLORADO. Accessory Area floor area = 1,905 gross sq. ft. Plumbing Fixtures: Male: 100 occupants/2 = 50 males M2.2 Second Floor Plan – HVAC Water Closets: 1/25 for first 50 males stanneujahr@neujahrgorman.com 1,905 gross sq. ft./(1 occupant/100 gross sq. ft.) = (Business Class.) M2.3 Third Floor Plan – HVAC Zoning Designation: PUD 19.05 occupants, use 19 occupants 1 water closet and 1 urinal provided M2.4 Roof Plan – HVAC Total first floor occupants = 100 occupants Lavatories: 1/40 for first 80 males Specification Consultant: M3.1 HVAC Details Occupancy Group: Business Group B Total Building: 300 occupants 2 lavatories provided Warren Foster Female: 100 occupants/2 = 50 females Construction Specification Specialist LTD. Water Closets: 1/25 for first 50 females 64,830 sq. ft. or 7.03 acres Site Area: 16428 W. First Ave. Plumbing Schedules 2 water closets provided Golden, CO. 80401 P2.0 Underslab Plan – Plumbing Construction Type: V-B (Sprinkled) Lavatories: 1/40 for first 80 males 303.216.9560 telephone P2.1 First Floor Plan – Plumbing 2 lavatories provided 303.216.9566 facsimile P2.2 Second Floor Plan – Plumbing Location on Site: North:90.60' from N property line Drinking Fountains: 1/100 occupants Foster-cs2@qwestoffice.net P2.3 Third Floor Plan – Plumbing East: 363.36' from E property line, 135.00' from future bldg. 2 drinking fountains provided (1 accessible) P2.4 Roof Plan – Plumbing Service Sinks: 1 required South: 355.06' from S property line (W. 10<sup>th</sup> Ave.), 39.00' from future bldg. P3.1 Plumbing Details West: 115.06' from E property line (Johnson Rd.) 1 mop sink provided Same as First Floor Second Floor: Electrical: Same as First Floor Electrical Site Plan Notes & Legend One-Line Diagram Panel Schedules & Lighting Fixture Schedule First Floor Power & Lighting Plans Second Floor Power & Lighting Plans Third Floor Power & Lighting Plans Roof Power Plan

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JOP DRF drawn checked JFH issued for 9/15/08 Bid and Plan Review

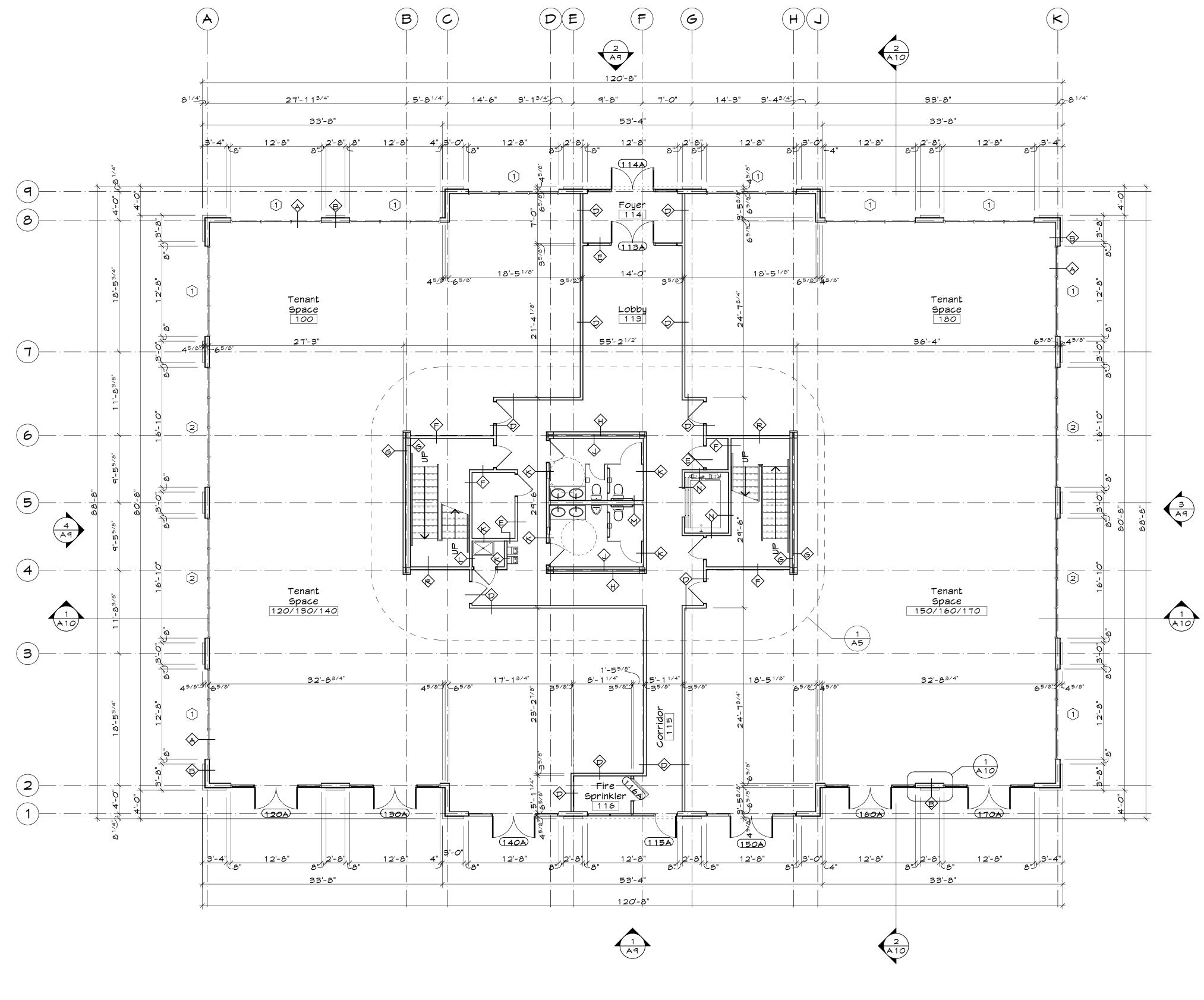
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sheet

### Wall Types

- Exterior curtain wall from 6" x 16 ga. (54 mils) steel studs at 16" o.c. Finish exterior face of wall with acrylic elastomeric finish coat over acrylic primer coat over 3/8" thick factory mixed cementitious one-coat stucco with acrylic polymer admixture over 2.5 lb./sq. yd. self-furring diamond mesh metal lath over Tyvek CommercialWrap D over 5/8" exterior grade gypsum board sheathing. Insulate wall with R-19 FSK-faced flame spread 25 fiberglass insulation. Fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board below ceiling height with Level 5 finish. Finish interior face of wall with 5/8" type "x" gypsum board to above ceiling height at time of tenant finish. For window assembly refer to Window Schedule and Window Types on sheet A10.
- Exterior curtain wall from 6" x 16 ga. (54 mils) steel studs at 16" o.c. Finish exterior face of wall with 4" nom. brick veneer pilaster over 7/8" air space over Tyvek CommercialWrap D over 5/8" exterior grade gypsum board sheathing. Insulate wall with R-19 FSK-faced flame spread 25 fiberglass insulation. Fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Finish interior face of wall with 5/8" type "x" gypsum board to above ceiling height at time of tenant finish. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board below ceiling height with Level 5 finish.
- Exterior curtain wall from 6" x 16 ga. (54 mils) steel studs at 16" o.c. Finish exterior face of wall with acrylic elastomeric finish coat over fiberglass reinforcing mesh embedded in 1/16" 3/32" thick acrylic polymer modified cementitious base coat over 2" thick expanded polystyrene insulation (EPS) adhered with above base coat to 3/8" thick factory mixed cementitious one-coat stucco with acrylic polymer admixture over 2.5 lb. /sq. yd. self-furring diamond mesh metal lath over Tyvek CommercialWrap D over 5/8" exterior grade gypsum board sheathing. Back wrap all EPS shapes with fiberglass reinforcing mesh. Do not lap mesh over one-coat stucco. Insulate wall with R-19 FSK-faced flame spread 25 fiberglass insulation. Fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Finish interior face of wall with 5/8" type "x" gypsum board to above ceiling height at time of tenant finish. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board below ceiling height with Level 5 finish.
- Interior wall from 3-5/8" x 25 ga. (18 mils) steel studs at 16" o.c. to underside of floor or roof deck above with slip joint at top of wall. Finish common area side of wall with 5/8" type "x" gypsum board to underside of floor or roof deck above. Insulate wall with 3-1/2" sound attenuation batt insulation. Fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board below ceiling height with Level 5 finish. Finish tenant side of wall with 5/8" type "x" gypsum board to underside of floor or roof deck at time of tenant finish.
- Interior wall from 3-5/8" x 25 ga. (18 mils) steel studs at 16" o.c. to underside of floor or roof deck above with slip joint at top of wall. Finish both faces of wall with 5/8" type "x" gypsum board to underside of floor or roof deck above. Insulate wall with 3-1/2" sound attenuation batt insulation. Fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board on Corridor side of wall below ceiling height with Level 5 finish. Finish gypsum board on Electrical Eqpt. Room side of wall with Level 2 finish.
- Interior wall of 1-hour fire resistive construction from 3-5/8" x 25 ga. (18 mils) steel studs at 16" o.c. to underside of beam, floor or roof deck above with slip joint at top of wall. Finish both faces of wall with 5/8" type "x" gypsum board to underside of beam, floor or roof deck above. Insulate wall with 3-1/2" sound attenuation batt insulation. Through wall penetrations and recessed fixtures shall be installed to maintain the fire resistive rating of the wall per Section 712, 2006 IBC. Where permitted fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board below ceiling height with Level 5 finish. Finish gypsum board on Electrical Eqpt. Room side of wall with Level 2 finish.
- Interior wall of 1-hour fire resistive construction from 3-5/8" x 25 ga. (18 mils) steel studs at 16" o.c. to underside of beam, diagonal brace or roof deck above with slip joint at top of wall. Finish face of wall with 5/8" type "x" gypsum board to underside of floor or roof deck above. Insulate tenant side of wall with 3-1/2" sound attenuation batt insulation. Through wall penetrations and recessed fixtures shall be installed to maintain the fire resistive rating of the wall per Section 712, 2006 IBC. Where permitted fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board on Stair side of wall below ceiling height with Level 5 finish. Finish gypsum board on Mech. Shaft side of wall with Level 1 finish
- Interior wall from 3-5/8" x 25 ga. (18 mils) steel studs at 16" o.c. to underside of beam or diagonal brace above with slip joint at top of wall. Finish face of wall with 5/8" type "x" gypsum board to underside of floor or roof deck above. Fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board below ceiling height with Level 5 finish.
- Interior wall from 3-5/8" x 25 ga. (18 mils) steel studs at 16" o.c. to underside of beam or diagonal brace above with slip joint at top of wall. Finish face of wall with 5/8" type "x" moisture resistant gypsum board to underside of floor or roof deck above. Insulate Toilet Room side of wall with 3-1/2" sound attenuation batt insulation. Fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board above tile wainscot and below ceiling height with Level 5 finish. Finish gypsum board behind tile wainscot with Level 2 finish. Refer to Toilet Room Elevations on sheet A5.
- Interior wall from 3-5/8" x 25 ga. (18 mils) steel studs at 16" o.c. to underside of beam, floor or roof deck above with slip joint at top of wall. Finish face of Toilet Room and Janitor Closet side of walls with 5/8" type "x" moisture resistant gypsum board to underside of beam, floor or roof deck above. Finish face of corridor side of walls with 5/8" type "x" gypsum board to underside of beam, floor or roof deck above. Insulate toilet room side of wall with 3-1/2" sound attenuation batt insulation. Fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board above tile wainscot and below ceiling height in Toilet Rooms with Level 5 finish. Finish gypsum board behind tile wainscot in Toilet Rooms and behind fiberglass reinforced plastic panels (FRP) in Janitor Closet with Level 2 finish. Refer to Toilet Room Elevations on sheet A5.
- Interior wall of 1-hour fire resistive construction from 3-5/8" x 25 ga. (18 mils) steel studs at 16" o.c. to underside of beam, floor or roof deck above with slip joint at top of wall. Finish face of Janitor Closet side of wall with 5/8" type "x" moisture resistant gypsum board to underside of beam, floor or roof deck above. Finish face of Stair side of wall with 5/8" type "x" gypsum board to underside of beam, floor or roof deck above. Insulate wall with 3-1/2" sound attenuation batt insulation. Through wall penetrations and recessed fixtures shall be installed to maintain the fire resistive rating of the wall per Section 712, 2006 IBC. Where permitted fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board on Stair side of wall with Level 5 finish. Finish gypsum board on Janitor side of wall behind fiberglass reinforced plastic panels with Level 2 finish.
- Interior wall from 6" x 25 ga. (18 mils) steel studs at 16" o.c. to underside of floor or roof deck above with slip joint at top of wall. Finish both faces of wall with 5/8" type "x" moisture resistant gypsum board to underside of floor or roof deck above. Insulate wall with 2 layers 3-1/2" sound attenuation batt insulation. Fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board above tile wainscot and below ceiling height with Level 5 finish. Finish gypsum board behind tile wainscot with Level 2 finish. Refer to Toilet Room Elevations on sheet A5.
- Interior wall of 1-hour fire resistive construction from 4" x 25 ga. (18 mils) steel CH or CT studs at 24" o.c. to underside of beam above with slip joint at top of wall. Finish face of Elevator side of wall with 1" gypsum board liner panels to underside of beam above. Finish face of Corridor, Communications and Elevator Eqpt. Room side of wall with 5/8" type "x" gypsum board to underside of beams above. Finish face of Stair side of wall with 5/8" type "x" gypsum board. Insulate wall with 3-1/2" sound attenuation batt insulation. Through wall penetrations and recessed fixtures shall be installed to maintain the fire resistive rating of the wall per Section 712, 2006 IBC. Where permitted fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board on Corridor and Stair side of wall with Level 5 finish. Finish gypsum board on Communications and Elevator Eqpt. Room side of wall with Level 2 finish.
- Interior wall of 1-hour fire resistive construction from 4" x 25 ga. (18 mils) steel CH or CT studs at 24" o.c. to underside of beam or roof deck above with slip joint at top of wall. Finish face of Mech. Shaft side of wall with 1" gypsum board liner panels to underside of beam or roof deck above. Finish face of Tenant side of wall with 5/8" type "x" gypsum board to underside of beam or roof deck above. Insulate wall with 3-1/2" sound attenuation batt insulation. Through wall penetrations and recessed fixtures shall be installed to maintain the fire resistive rating of the wall per Section 712, 2006 IBC. Where permitted fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board on Tenant side of wall with Level 5 finish.
- Interior wall of 1-hour fire resistive construction from 3-5/8" x 25 ga. (18 mils) steel studs at 16" o.c. to underside of beam, floor or roof deck above with slip joint at top of wall. Finish face of Stair side of wall with 5/8" type "x" gypsum board to underside of roof deck above. Finish face of Tenant side of wall with 2 layers 5/8" type "x" gypsum board to underside of floor or roof beam above. Insulate wall with 3-1/2" sound attenuation batt insulation. Through wall penetrations and recessed fixtures shall be installed to maintain the fire resistive rating of the wall per Section 712, 2006 IBC. Where permitted fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board below ceiling height with Level 5 finish.



First Floor Plan

Gross Floor Area - 10,013 sq.ft

Scale: 1/8" = 1'-0"

job JOP
drawn DRF
checked JFH
issued for
9/15/08 Bid and Plan Review

Jeffers

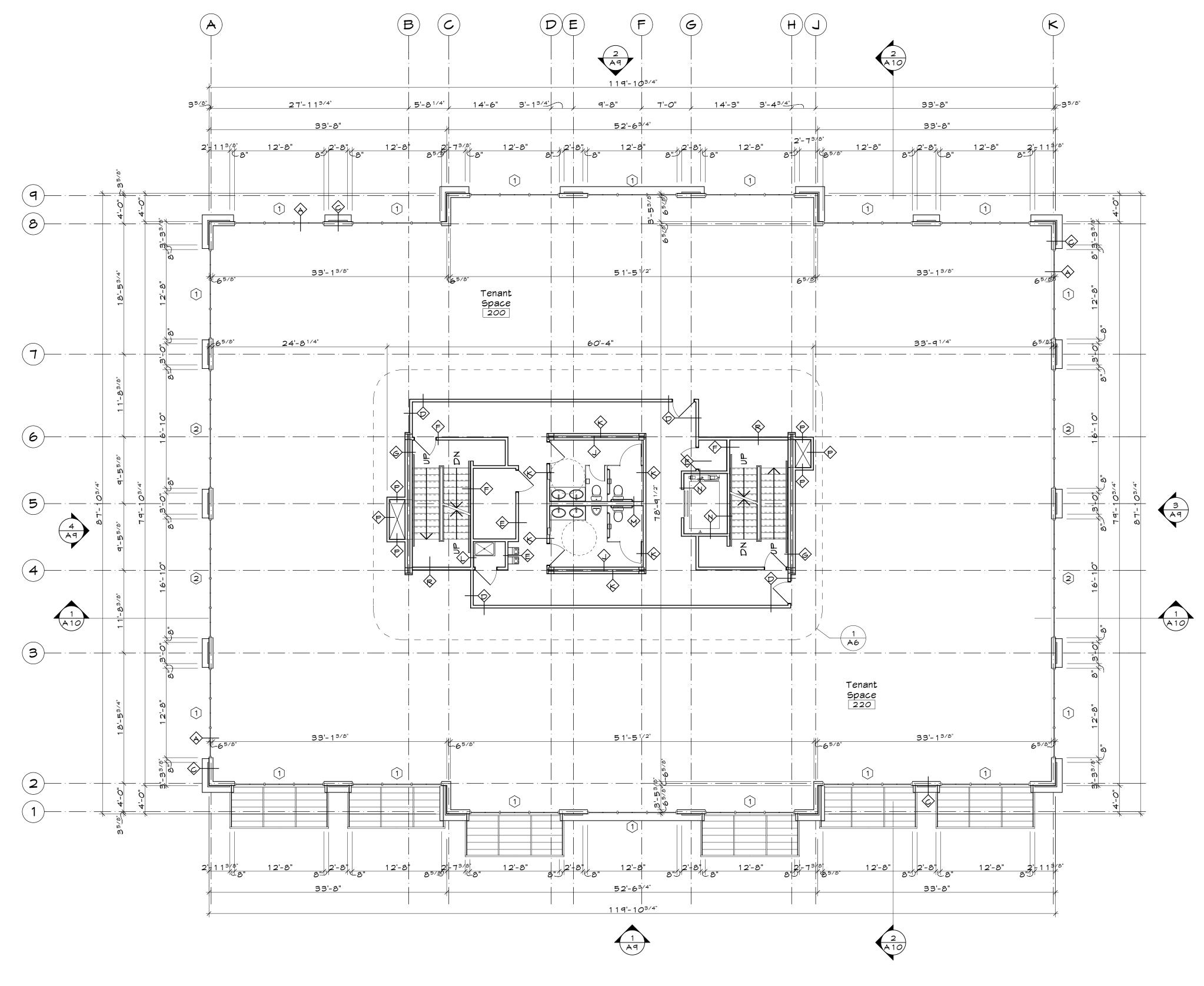
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sheet

### Wall Types

- Exterior curtain wall from 6" x 16 ga. (54 mils) steel studs at 16" o.c. Finish exterior face of wall with acrylic elastomeric finish coat over acrylic primer coat over 3/8" thick factory mixed cementitious one-coat stucco with acrylic polymer admixture over 2.5 lb./sq. yd. self-furring diamond mesh metal lath over Tyvek CommercialWrap D over 5/8" exterior grade gypsum board sheathing. Insulate wall with R-19 FSK-faced flame spread 25 fiberglass insulation. Fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board below ceiling height with Level 5 finish. Finish interior face of wall with 5/8" type "x" gypsum board to above ceiling height at time of tenant finish. For window assembly refer to Window Schedule and Window Types on sheet A10.
- (B) Exterior curtain wall from 6" x 16 ga. (54 mils) steel studs at 16" o.c. Finish exterior face of wall with 4" nom. brick veneer pilaster over 7/8" air space over Tyvek CommercialWrap D over 5/8" exterior grade gypsum board sheathing. Insulate wall with R-19 FSK-faced flame spread 25 fiberglass insulation. Fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Finish interior face of wall with 5/8" type "x" gypsum board to above ceiling height at time of tenant finish. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board below ceiling height with Level 5 finish.
- Exterior curtain wall from 6" x 16 ga. (54 mils) steel studs at 16" o.c. Finish exterior face of wall with acrylic elastomeric finish coat over fiberglass reinforcing mesh embedded in 1/16" — 3/32" thick acrylic polymer modified cementitious base coat over 2" thick expanded polystyrene insulation (EPS) adhered with above base coat to 3/8" thick factory mixed cementitious one-coat stucco with acrylic polymer admixture over 2.5 lb. /sq. yd. self-furring diamond mesh metal lath over Tyvek CommercialWrap D over 5/8" exterior grade gypsum board sheathing. Back wrap all EPS shapes with fiberglass reinforcing mesh. Do not lap mesh over one-coat stucco. Insulate wall with R-19 FSK-faced flame spread 25 fiberglass insulation. Fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Finish interior face of wall with 5/8" type "x" gypsum board to above ceiling height at time of tenant finish. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board below ceiling height with Level 5 finish.
- (D) Interior wall from 3-5/8" x 25 ga. (18 mils) steel studs at 16" o.c. to underside of floor or roof deck above with slip joint at top of wall. Finish common area side of wall with 5/8" type "x" gypsum board to underside of floor or roof deck above. Insulate wall with 3-1/2" sound attenuation batt insulation. Fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board below ceiling height with Level 5 finish. Finish tenant side of wall with 5/8" type "x" gypsum board to underside of floor or roof deck at time of tenant finish.
- (E) Interior wall from 3-5/8" x 25 ga. (18 mils) steel studs at 16" o.c. to underside of floor or roof deck above with slip joint at top of wall. Finish both faces of wall with 5/8" type "x" gypsum board to underside of floor or roof deck above. Insulate wall with 3-1/2" sound attenuation batt insulation. Fill holes at duplexes. switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board on Corridor side of wall below ceiling height with Level 5 finish. Finish gypsum board on Electrical Eqpt. Room side of wall with Level 2 finish.
- (F) Interior wall of 1-hour fire resistive construction from 3-5/8" x 25 ga. (18 mils) steel studs at 16" o.c. to underside of beam, floor or roof deck above with slip joint at top of wall. Finish both faces of wall with 5/8" type "x" gypsum board to underside of beam, floor or roof deck above. Insulate wall with 3-1/2" sound attenuation batt insulation. Through wall penetrations and recessed fixtures shall be installed to maintain the fire resistive rating of the wall per Section 712, 2006 IBC. Where permitted fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board below ceiling height with Level 5 finish. Finish gypsum board on Electrical Eqpt. Room side of wall with Level 2 finish.
- (G) Interior wall of 1-hour fire resistive construction from 3-5/8" x 25 ga. (18 mils) steel studs at 16" o.c. to underside of beam, diagonal brace or roof deck above with slip joint at top of wall. Finish face of wall with 5/8" type "x" gypsum board to underside of floor or roof deck above. Insulate tenant side of wall with 3-1/2" sound attenuation batt insulation. Through wall penetrations and recessed fixtures shall be installed to maintain the fire resistive rating of the wall per Section 712, 2006 IBC. Where permitted fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board on Stair side of wall below ceiling height with Level 5 finish. Finish gypsum board on Tenant side of wall below ceiling height with Level 5 finish. Finish gypsum board on Mech. Shaft side of wall with Level 1
- (H) Interior wall from 3-5/8" x 25 ga. (18 mils) steel studs at 16" o.c. to underside of beam or diagonal brace above with slip joint at top of wall. Finish face of wall with 5/8" type "x" gypsum board to underside of floor or roof deck above. Fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board below ceiling height with Level 5 finish.
- Interior wall from 3-5/8" x 25 ga. (18 mils) steel studs at 16" o.c. to underside of beam or diagonal brace above with slip joint at top of wall. Finish face of wall with 5/8" type "x" moisture resistant gypsum board to underside of floor or roof deck above. Insulate Toilet Room side of wall with 3-1/2" sound attenuation batt insulation. Fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board above tile wainscot and below ceiling height with Level 5 finish. Finish gypsum board behind tile wainscot with Level 2 finish. Refer to Toilet Room Elevations on sheet A5.
- Interior wall from 3-5/8" x 25 ga. (18 mils) steel studs at 16" o.c. to underside of beam, floor or roof deck above with slip joint at top of wall. Finish face of Toilet Room and Janitor Closet side of walls with 5/8" type "x" moisture resistant gypsum board to underside of beam, floor or roof deck above. Finish face of corridor side of walls with 5/8" type "x" gypsum board to underside of beam, floor or roof deck above. Insulate toilet room side of wall with 3-1/2" sound attenuation batt insulation. Fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board above tile wainscot and below ceiling height in Toilet Rooms with Level 5 finish. Finish gypsum board behind tile wainscot in Toilet Rooms and behind fiberglass reinforced plastic panels (FRP) in Janitor Closet with Level 2 finish. Refer to Toilet Room Elevations on sheet A5.
- Interior wall of 1-hour fire resistive construction from 3-5/8" x 25 ga. (18 mils) steel studs at 16" o.c. to underside of beam, floor or roof deck above with slip joint at top of wall. Finish face of Janitor Closet side of wall with 5/8" type "x" moisture resistant gypsum board to underside of beam, floor or roof deck above. Finish face of Stair side of wall with 5/8" type "x" gypsum board to underside of beam, floor or roof deck above. Insulate wall with 3-1/2" sound attenuation batt insulation. Through wall penetrations and recessed fixtures shall be installed to maintain the fire resistive rating of the wall per Section 712, 2006 IBC. Where permitted fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board on Stair side of wall with Level 5 finish. Finish gypsum board on Janitor side of wall behind fiberglass reinforced plastic panels with Level 2 finish.
- Interior wall from 6" x 25 ga. (18 mils) steel studs at 16" o.c. to underside of floor or roof deck above with slip joint at top of wall. Finish both faces of wall with 5/8" type "x" moisture resistant gypsum board to underside of floor or roof deck above. Insulate wall with 2 layers 3-1/2" sound attenuation batt insulation. Fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board above tile wainscot and below ceiling height with Level 5 finish. Finish gypsum board behind tile wainscot with Level 2 finish. Refer to Toilet Room Elevations on sheet A5.
- (N) Interior wall of 1-hour fire resistive construction from 4" x 25 ga. (18 mils) steel CH or CT studs at 24" o.c. to underside of beam above with slip joint at top of wall. Finish face of Elevator side of wall with 1" gypsum board liner panels to underside of beam above. Finish face of Corridor, Communications and Elevator Eqpt. Room side of wall with 5/8" type "x" gypsum board to underside of beams above. Finish face of Stair side of wall with 5/8" type "x" gypsum board. Insulate wall with 3-1/2" sound attenuation batt insulation. Through wall penetrations and recessed fixtures shall be installed to maintain the fire resistive rating of the wall per Section 712, 2006 IBC. Where permitted fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board on Corridor and Stair side of wall with Level 5 finish. Finish gypsum board on Communications and Elevator Eqpt. Room side of wall with Level 2
- Interior wall of 1-hour fire resistive construction from 4" x 25 ga. (18 mils) steel CH or CT studs at 24" o.c. to underside of beam or roof deck above with slip joint at top of wall. Finish face of Mech. Shaft side of wall with 1" gypsum board liner panels to underside of beam or roof deck above. Finish face of Tenant side of wall with 5/8" type "x" gypsum board to underside of beam or roof deck above. Insulate wall with 3-1/2" sound attenuation batt insulation. Through wall penetrations and recessed fixtures shall be installed to maintain the fire resistive rating of the wall per Section 712, 2006 IBC. Where permitted fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board on Tenant side of wall with Level 5 finish.
- (R) Interior wall of 1-hour fire resistive construction from 3-5/8" x 25 ga. (18 mils) steel studs at 16" o.c. to underside of beam, floor or roof deck above with slip joint at top of wall. Finish face of Stair side of wall with 5/8" type "x" gypsum board to underside of roof deck above. Finish face of Tenant side of wall with 2 layers 5/8" type "x" gypsum board to underside of floor or roof beam above. Insulate wall with 3-1/2" sound attenuation batt insulation. Through wall penetrations and recessed fixtures shall be installed to maintain the fire resistive rating of the wall per Section 712, 2006 IBC. Where permitted fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board below ceiling height with Level 5 finish.





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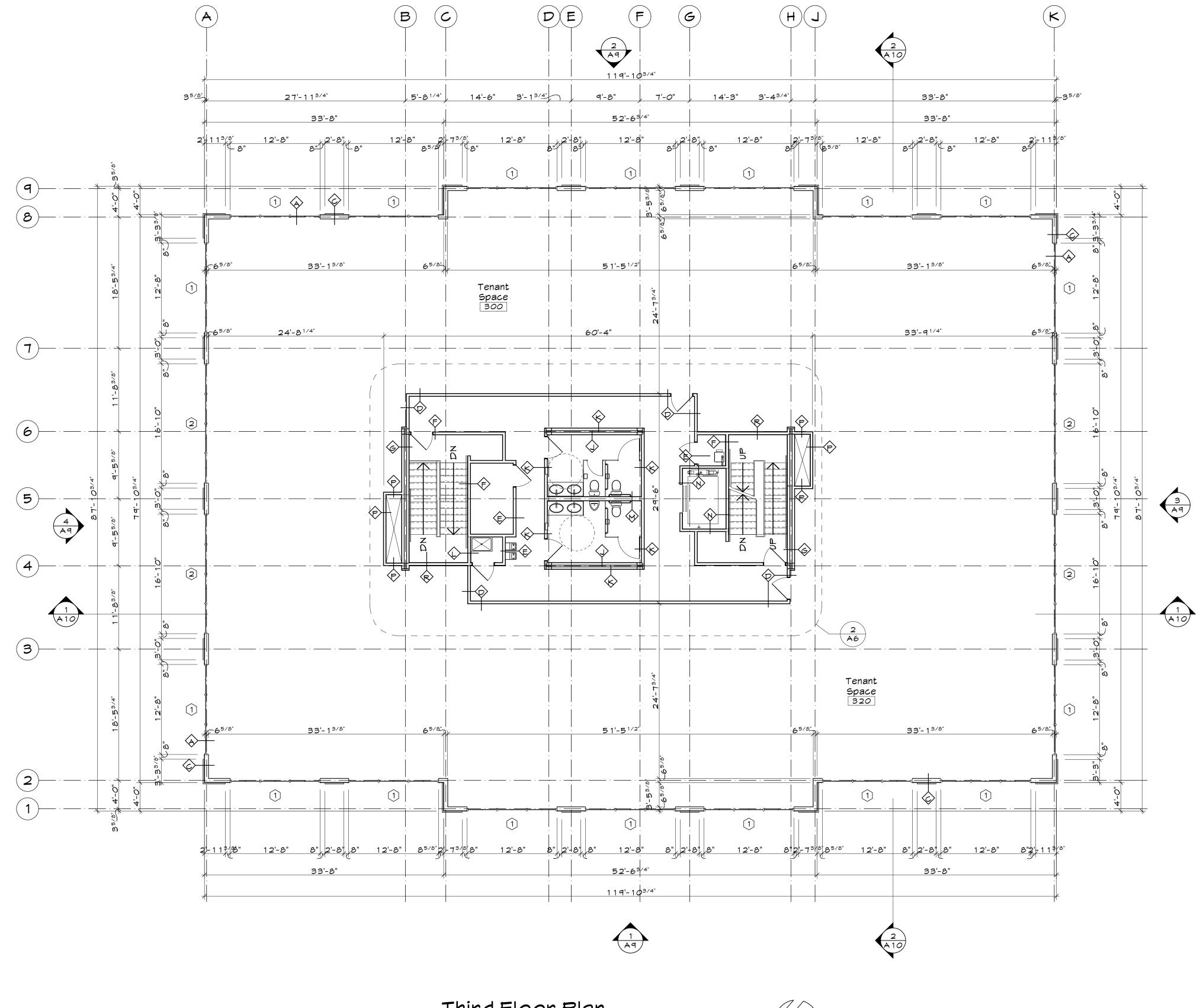
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### Wall Types

- Exterior curtain wall from 6" x 16 ga. (54 mils) steel studs at 16" o.c. Finish exterior face of wall with acrylic elastomeric finish coat over acrylic primer coat over 3/8" thick factory mixed cementitious one-coat stucco with acrylic polymer admixture over 2.5 lb./sq. yd. self-furring diamond mesh metal lath over Tyvek CommercialWrap D over 5/8" exterior grade gypsum board sheathing. Insulate wall with R-19 FSK-faced flame spread 25 fiberglass insulation. Fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board below ceiling height with Level 5 finish. Finish interior face of wall with 5/8" type "x" gypsum board to above ceiling height at time of tenant finish. For window assembly refer to Window Schedule and Window Types on sheet A10.
- (B) Exterior curtain wall from 6" x 16 ga. (54 mils) steel studs at 16" o.c. Finish exterior face of wall with 4" nom. brick veneer pilaster over 7/8" air space over Tyvek CommercialWrap D over 5/8" exterior grade gypsum board sheathing. Insulate wall with R-19 FSK-faced flame spread 25 fiberglass insulation. Fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Finish interior face of wall with 5/8" type "x" gypsum board to above ceiling height at time of tenant finish. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board below ceiling height with Level 5 finish.
- Exterior curtain wall from 6" x 16 ga. (54 mils) steel studs at 16" o.c. Finish exterior face of wall with acrylic elastomeric finish coat over fiberglass reinforcing mesh embedded in 1/16" — 3/32" thick acrylic polymer modified cementitious base coat over 2" thick expanded polystyrene insulation (EPS) adhered with above base coat to 3/8" thick factory mixed cementitious one-coat stucco with acrylic polymer admixture over 2.5 lb. /sq. yd. self-furring diamond mesh metal lath over Tyvek CommercialWrap D over 5/8" exterior grade gypsum board sheathing. Back wrap all EPS shapes with fiberglass reinforcing mesh. Do not lap mesh over one-coat stucco. Insulate wall with R-19 FSK-faced flame spread 25 fiberglass insulation. Fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Finish interior face of wall with 5/8" type "x" gypsum board to above ceiling height at time of tenant finish. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board below ceiling height with Level 5 finish.
- (D) Interior wall from 3-5/8" x 25 ga. (18 mils) steel studs at 16" o.c. to underside of floor or roof deck above with slip joint at top of wall. Finish common area side of wall with 5/8" type "x" gypsum board to underside of floor or roof deck above. Insulate wall with 3-1/2" sound attenuation batt insulation. Fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board below ceiling height with Level 5 finish. Finish tenant side of wall with 5/8" type "x" gypsum board to underside of floor or roof deck at time of tenant finish.
- (E) Interior wall from 3-5/8" x 25 ga. (18 mils) steel studs at 16" o.c. to underside of floor or roof deck above with slip joint at top of wall. Finish both faces of wall with 5/8" type "x" gypsum board to underside of floor or roof deck above. Insulate wall with 3-1/2" sound attenuation batt insulation. Fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board on Corridor side of wall below ceiling height with Level 5 finish. Finish gypsum board on Electrical Eqpt. Room side of wall with Level 2 finish.
- (F) Interior wall of 1-hour fire resistive construction from 3-5/8" x 25 ga. (18 mils) steel studs at 16" o.c. to underside of beam, floor or roof deck above with slip joint at top of wall. Finish both faces of wall with 5/8" type "x" gypsum board to underside of beam, floor or roof deck above. Insulate wall with 3-1/2" sound attenuation batt insulation. Through wall penetrations and recessed fixtures shall be installed to maintain the fire resistive rating of the wall per Section 712, 2006 IBC. Where permitted fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board below ceiling height with Level 5 finish. Finish gypsum board on Electrical Eqpt. Room side of wall with Level 2 finish.
- (G) Interior wall of 1-hour fire resistive construction from 3-5/8" x 25 ga. (18 mils) steel studs at 16" o.c. to underside of beam, diagonal brace or roof deck above with slip joint at top of wall. Finish face of wall with 5/8" type "x" gypsum board to underside of floor or roof deck above. Insulate tenant side of wall with 3-1/2" sound attenuation batt insulation. Through wall penetrations and recessed fixtures shall be installed to maintain the fire resistive rating of the wall per Section 712, 2006 IBC. Where permitted fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board on Stair side of wall below ceiling height with Level 5 finish. Finish gypsum board on Tenant side of wall below ceiling height with Level 5 finish. Finish gypsum board on Mech. Shaft side of wall with Level 1
- (H) Interior wall from 3-5/8" x 25 ga. (18 mils) steel studs at 16" o.c. to underside of beam or diagonal brace above with slip joint at top of wall. Finish face of wall with 5/8" type "x" gypsum board to underside of floor or roof deck above. Fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board below ceiling height with Level 5 finish.
- Interior wall from 3-5/8" x 25 ga. (18 mils) steel studs at 16" o.c. to underside of beam or diagonal brace above with slip joint at top of wall. Finish face of wall with 5/8" type "x" moisture resistant gypsum board to underside of floor or roof deck above. Insulate Toilet Room side of wall with 3-1/2" sound attenuation batt insulation. Fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board above tile wainscot and below ceiling height with Level 5 finish. Finish gypsum board behind tile wainscot with Level 2 finish. Refer to Toilet Room Elevations on sheet A5.
- Interior wall from 3-5/8" x 25 ga. (18 mils) steel studs at 16" o.c. to underside of beam, floor or roof deck above with slip joint at top of wall. Finish face of Toilet Room and Janitor Closet side of walls with 5/8" type "x" moisture resistant gypsum board to underside of beam, floor or roof deck above. Finish face of corridor side of walls with 5/8" type "x" gypsum board to underside of beam, floor or roof deck above. Insulate toilet room side of wall with 3-1/2" sound attenuation batt insulation. Fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board above tile wainscot and below ceiling height in Toilet Rooms with Level 5 finish. Finish gypsum board behind tile wainscot in Toilet Rooms and behind fiberglass reinforced plastic panels (FRP) in Janitor Closet with Level 2 finish. Refer to Toilet Room Elevations on sheet A5.
- (L) Interior wall of 1-hour fire resistive construction from 3-5/8" x 25 ga. (18 mils) steel studs at 16" o.c. to underside of beam, floor or roof deck above with slip joint at top of wall. Finish face of Janitor Closet side of wall with 5/8" type "x" moisture resistant gypsum board to underside of beam, floor or roof deck above. Finish face of Stair side of wall with 5/8" type "x" gypsum board to underside of beam, floor or roof deck above. Insulate wall with 3-1/2" sound attenuation batt insulation. Through wall penetrations and recessed fixtures shall be installed to maintain the fire resistive rating of the wall per Section 712, 2006 IBC. Where permitted fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board on Stair side of wall with Level 5 finish. Finish gypsum board on Janitor side of wall behind fiberglass reinforced plastic panels with Level 2 finish.
- Interior wall from 6" x 25 ga. (18 mils) steel studs at 16" o.c. to underside of floor or roof deck above with slip joint at top of wall. Finish both faces of wall with 5/8" type "x" moisture resistant gypsum board to underside of floor or roof deck above. Insulate wall with 2 layers 3-1/2" sound attenuation batt insulation. Fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board above tile wainscot and below ceiling height with Level 5 finish. Finish gypsum board behind tile wainscot with Level 2 finish. Refer to Toilet Room Elevations on sheet A5.
- (N) Interior wall of 1-hour fire resistive construction from 4" x 25 ga. (18 mils) steel CH or CT studs at 24" o.c. to underside of beam above with slip joint at top of wall. Finish face of Elevator side of wall with 1" gypsum board liner panels to underside of beam above. Finish face of Corridor, Communications and Elevator Eqpt. Room side of wall with 5/8" type "x" gypsum board to underside of beams above. Finish face of Stair side of wall with 5/8" type "x" gypsum board. Insulate wall with 3-1/2" sound attenuation batt insulation. Through wall penetrations and recessed fixtures shall be installed to maintain the fire resistive rating of the wall per Section 712, 2006 IBC. Where permitted fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board on Corridor and Stair side of wall with Level 5 finish. Finish gypsum board on Communications and Elevator Eqpt. Room side of wall with Level 2
- Interior wall of 1-hour fire resistive construction from 4" x 25 ga. (18 mils) steel CH or CT studs at 24" o.c. to underside of beam or roof deck above with slip joint at top of wall. Finish face of Mech. Shaft side of wall with 1" gypsum board liner panels to underside of beam or roof deck above. Finish face of Tenant side of wall with 5/8" type "x" gypsum board to underside of beam or roof deck above. Insulate wall with 3-1/2" sound attenuation batt insulation. Through wall penetrations and recessed fixtures shall be installed to maintain the fire resistive rating of the wall per Section 712, 2006 IBC. Where permitted fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board on Tenant side of wall with Level 5 finish.
- (R) Interior wall of 1-hour fire resistive construction from 3-5/8" x 25 ga. (18 mils) steel studs at 16" o.c. to underside of beam, floor or roof deck above with slip joint at top of wall. Finish face of Stair side of wall with 5/8" type "x" gypsum board to underside of roof deck above. Finish face of Tenant side of wall with 2 layers 5/8" type "x" gypsum board to underside of floor or roof beam above. Insulate wall with 3-1/2" sound attenuation batt insulation. Through wall penetrations and recessed fixtures shall be installed to maintain the fire resistive rating of the wall per Section 712, 2006 IBC. Where permitted fill holes at duplexes, switches and other voids with expanding foam sealant that complies with Sec. 2603, 2006 IBC. Provide fireblocking and draftstopping where required per Sec. 717, 2006 IBC. Finish gypsum board below ceiling height with Level 5 finish.



Third Floor Plan Gross Floor Area - 10,013 sq ft

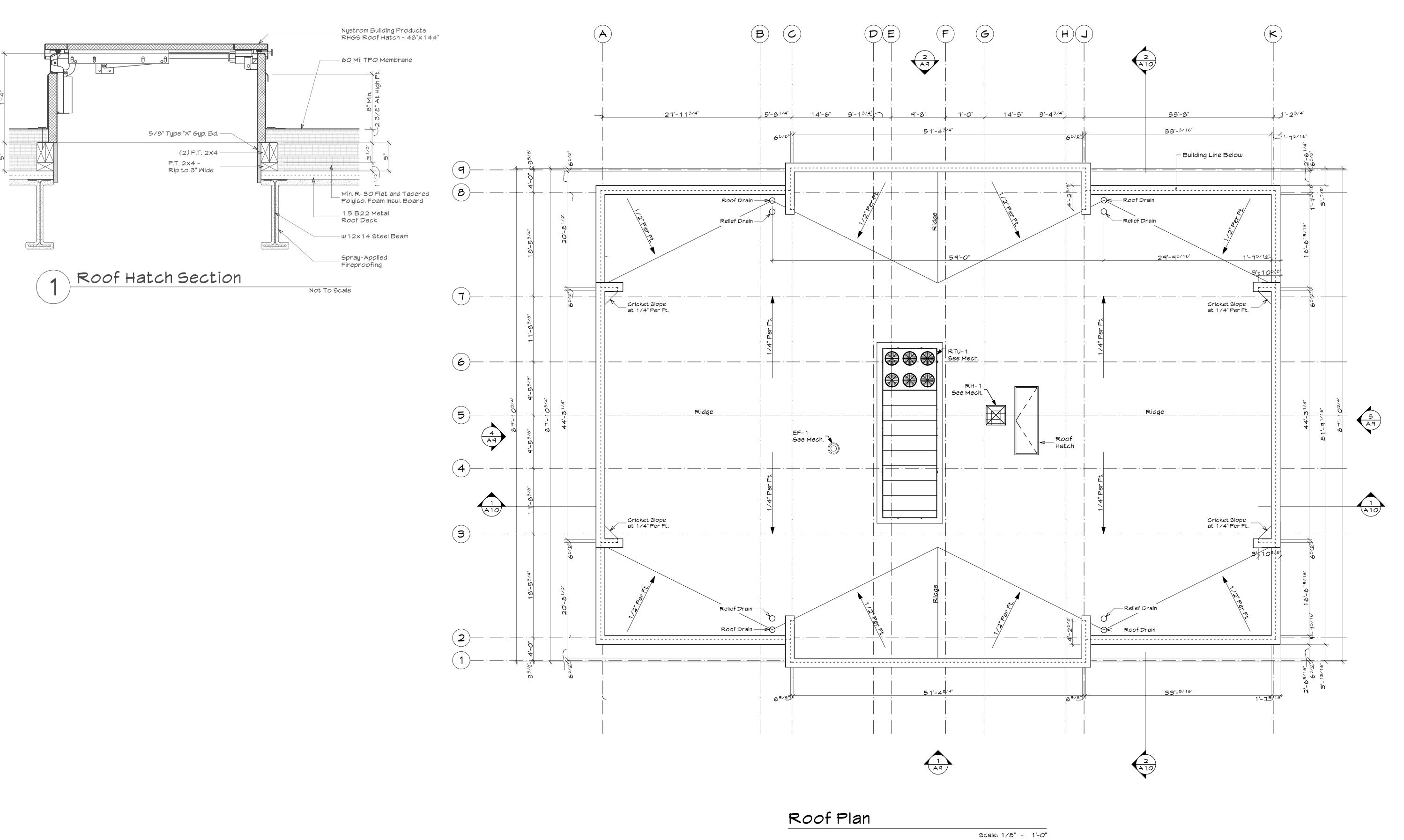
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Jefferson Office Park

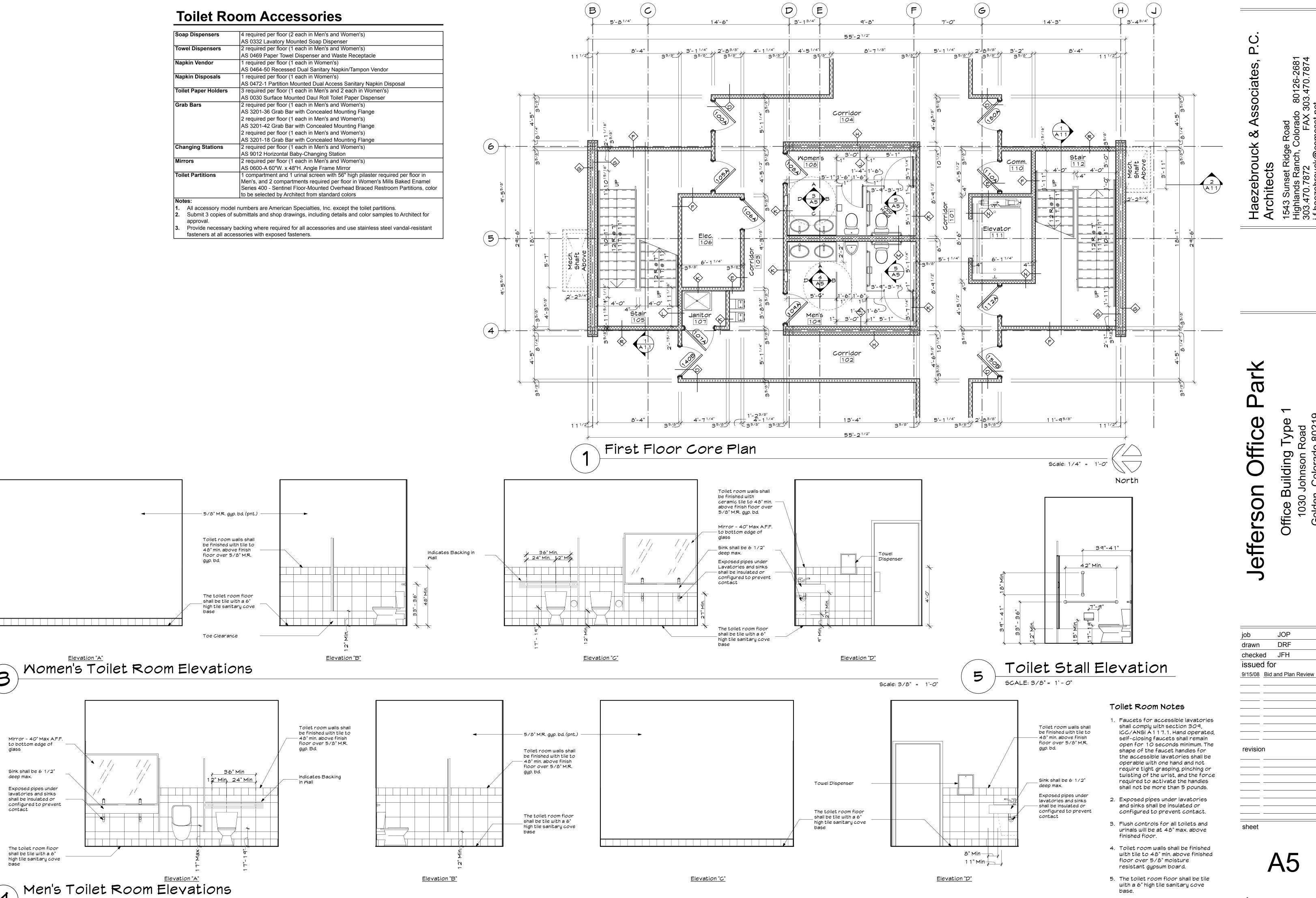
Jefferso Office

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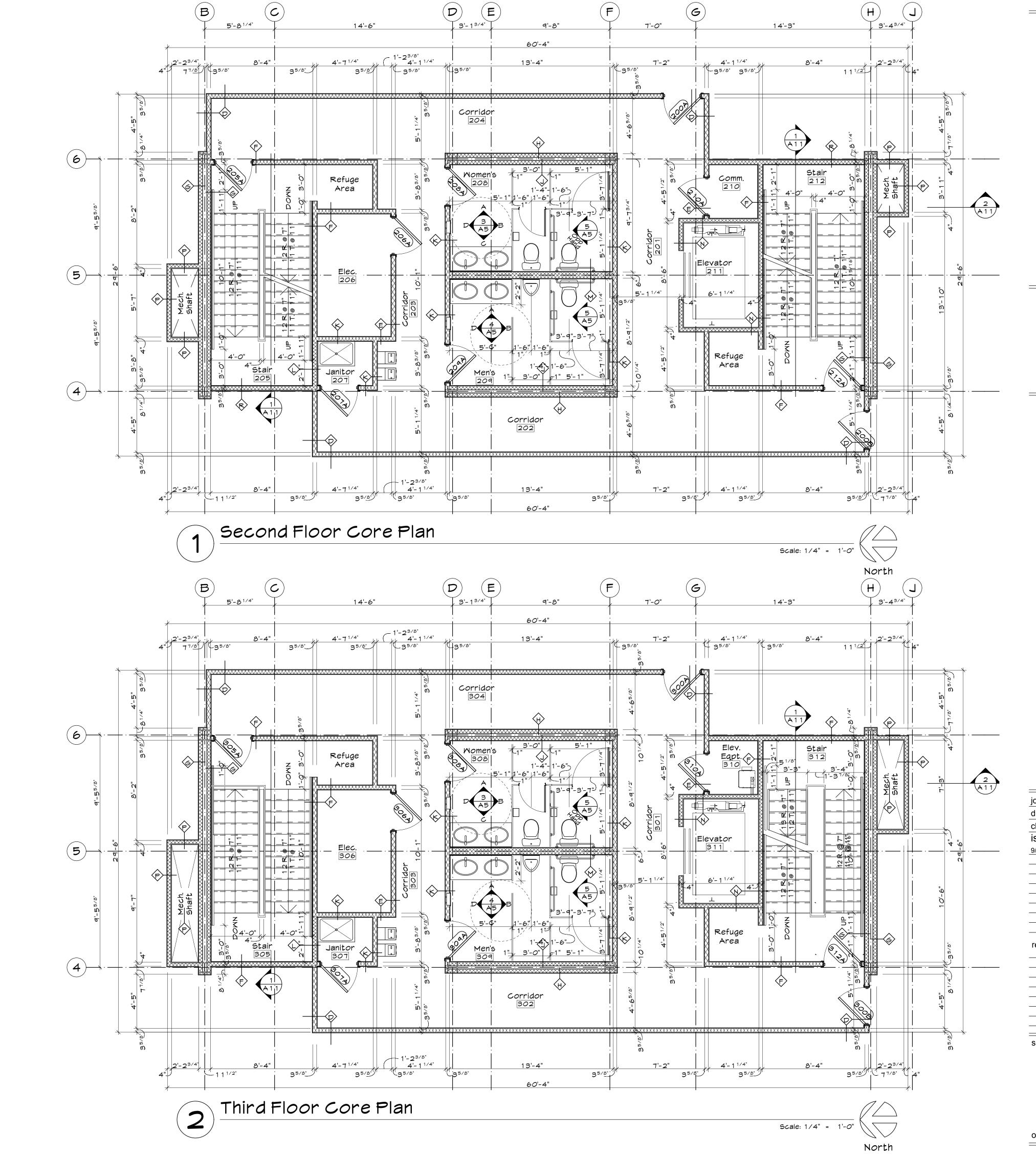
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6. Indicates backing for toilet

accessories.

Scale: 3/8" = 1'-0"



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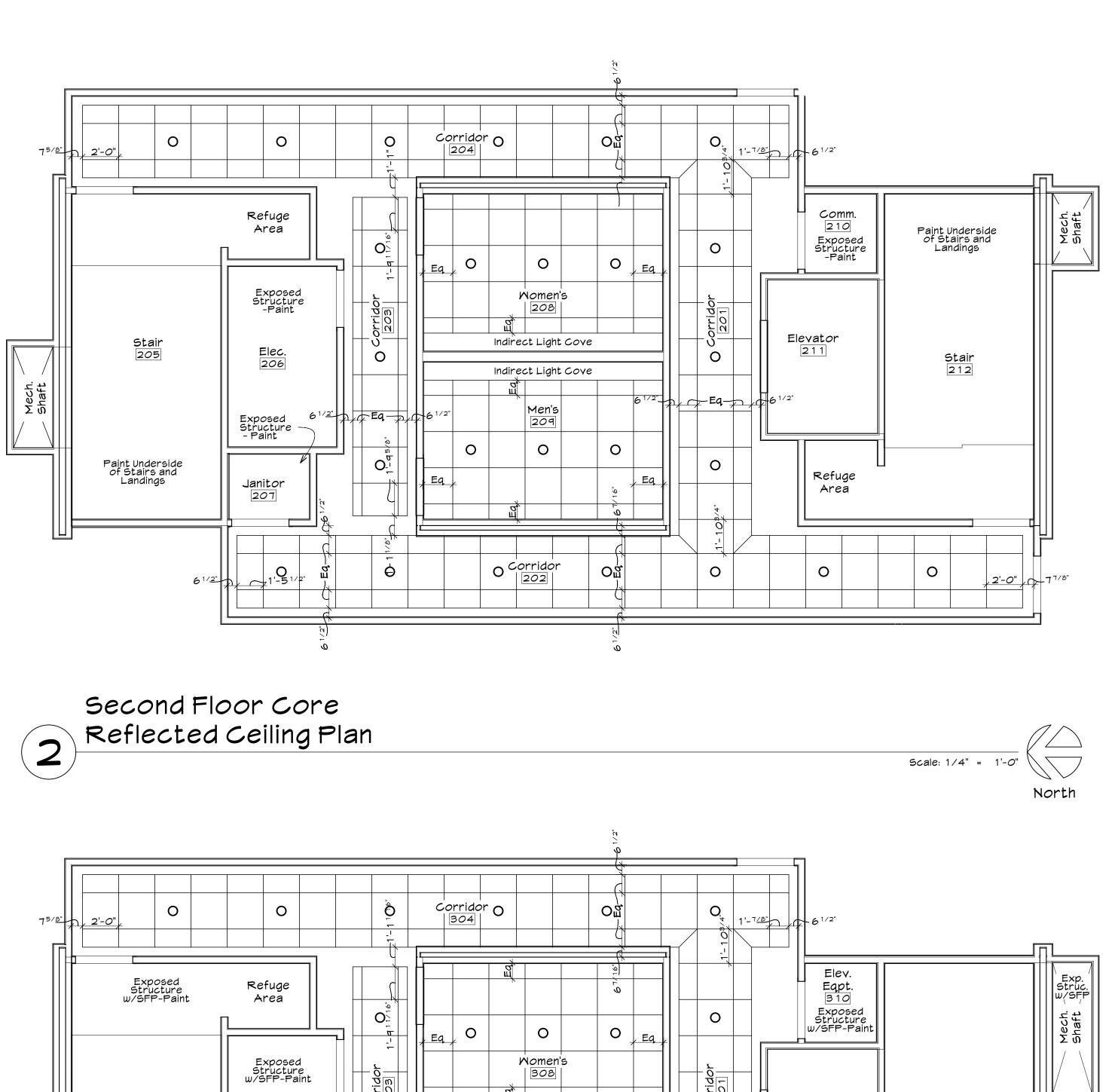
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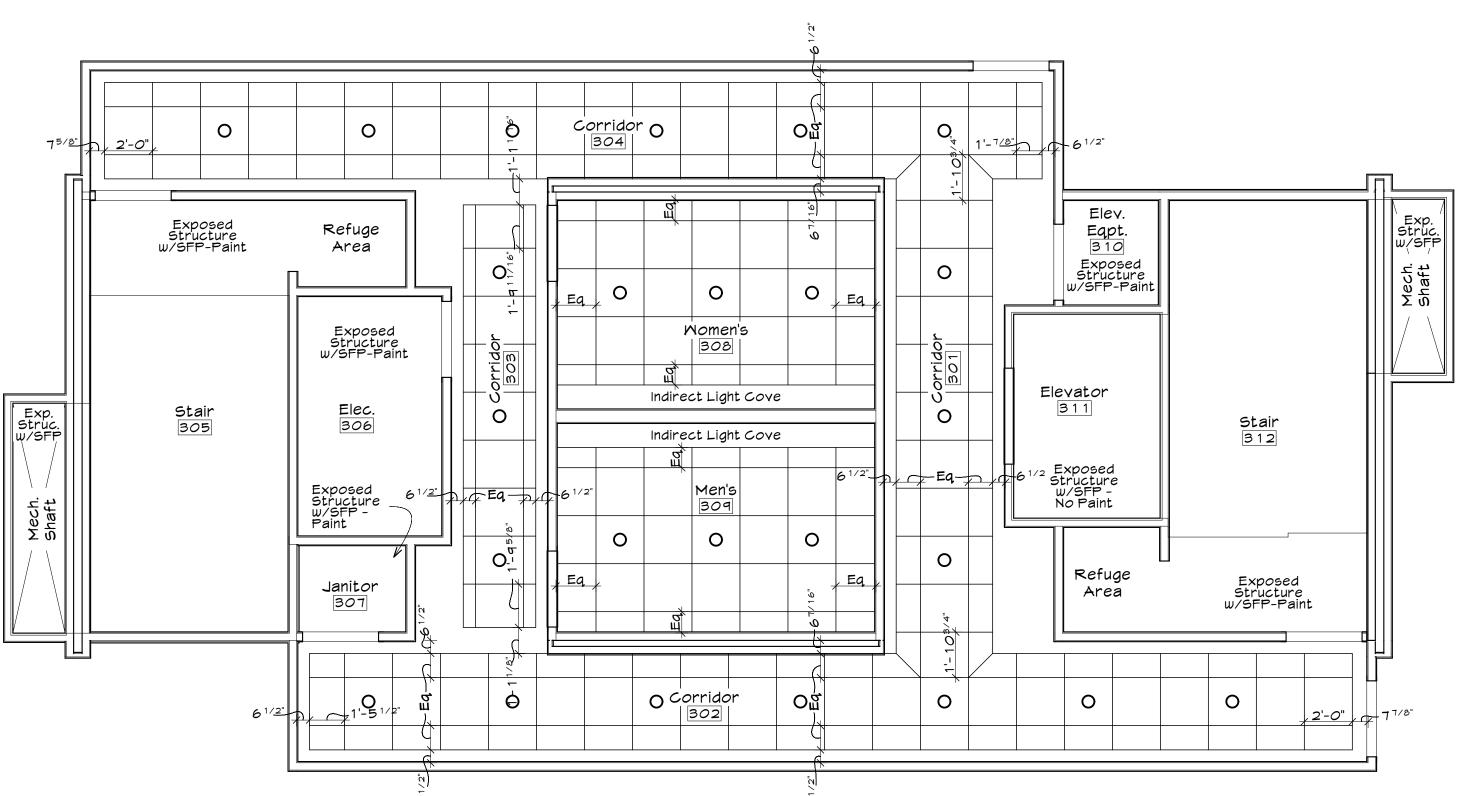
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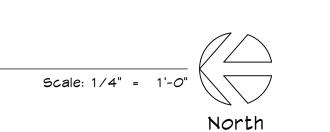
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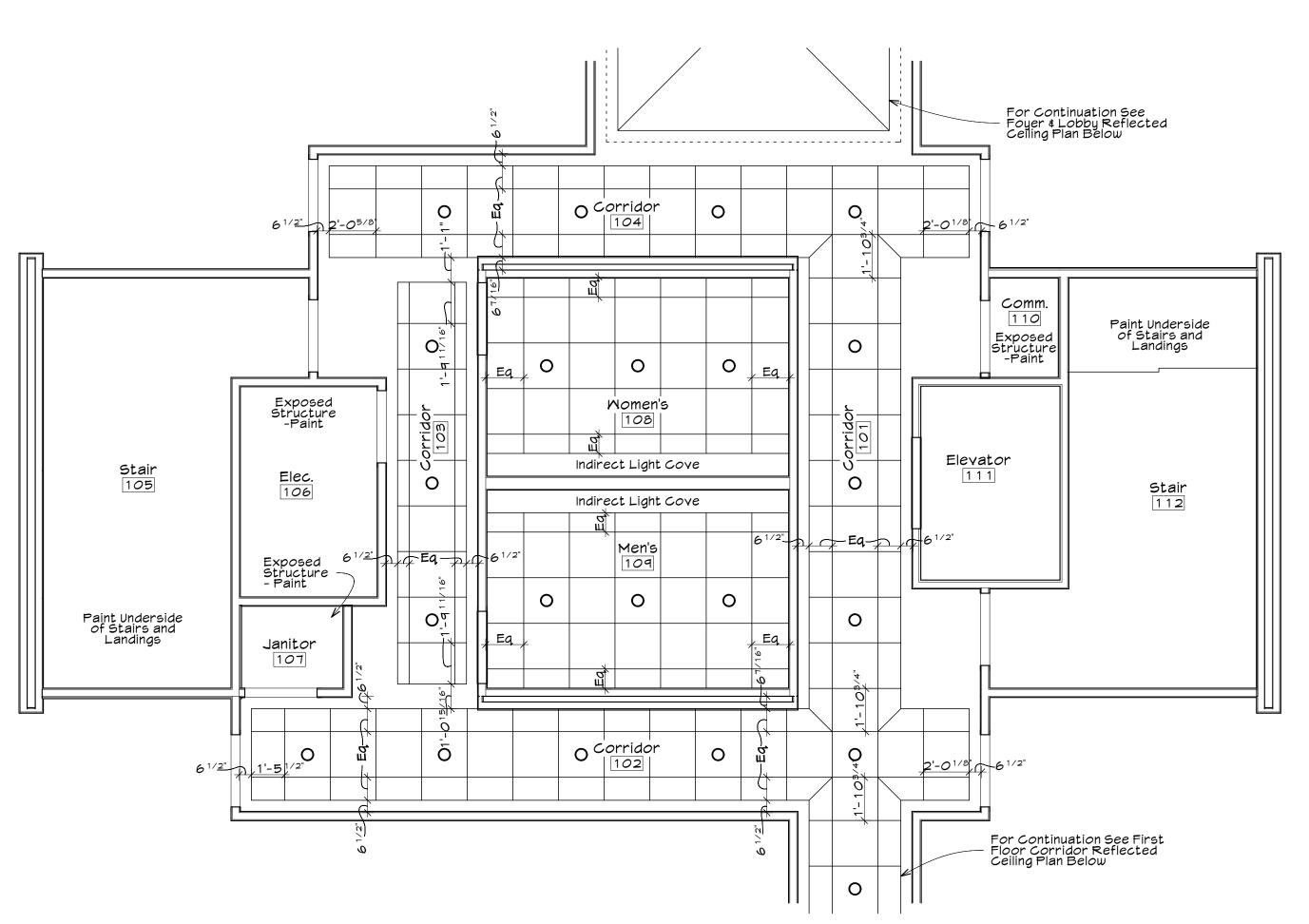
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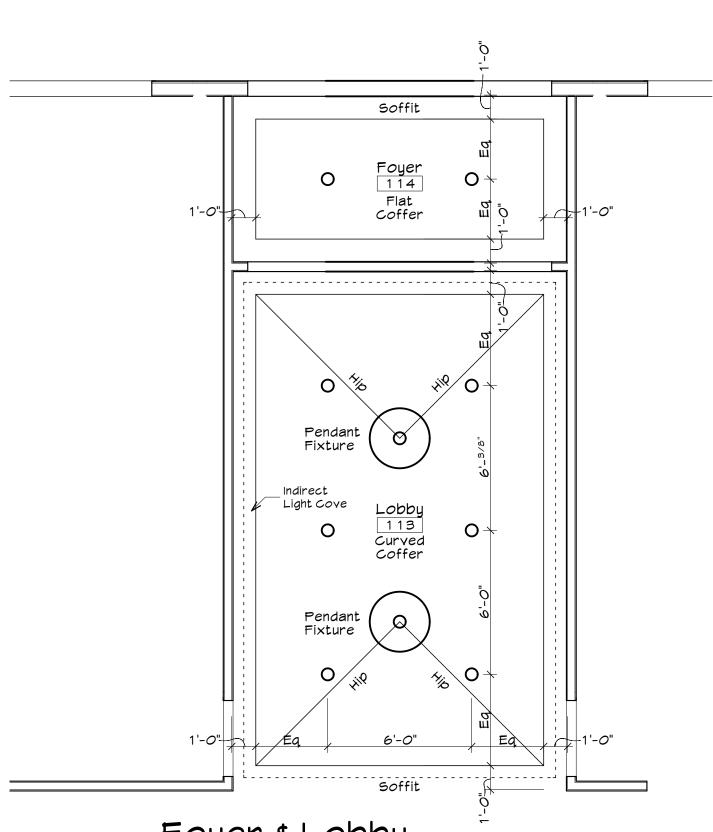








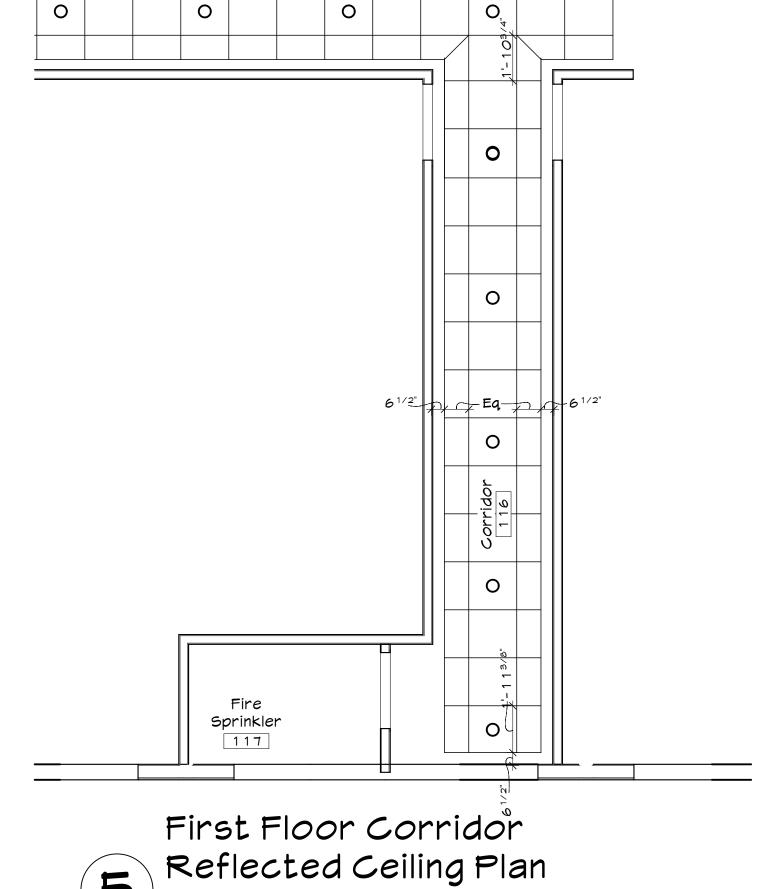




Foyer & Lobby

Reflected Ceiling Plan

Scale: 1/4" = 1'-0"



# Jefferson Office Park

이ffice Building Type 1 1030 Johnson Road Golden, Colorado 80219

ge Road n, Colorado 80126-2681 FAX 303.470.7874

Haezebrouck & Associates, Architects

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Scale: 1/4" = 1'-0"

### Hardware finishes shall be as noted on this schedule. All hardware shall comply with ICC/ANSI A117.1-1998 and the ADA Accessibility Guidelines.

- Provide hinges with non-removable pins where noted on this schedule.

  Coordinate hardware requirements with door fabricators where internal reinforcement for door hardware is required. Furnish hardware templates to door fabricators for factory preparation of doors and frames to receive hardware.
- Hardware supplier shall specialize in supplying door hardware, who is, or employs an experienced Architectural Hardware Consultant (AHC) who is used for consultation on
- the hardware requirements for this project.

  Provide one hardware brand for each hardware type, i.e., locks and latch sets of one brand, closers of one brand, hinges of one brand, etc.
- Submit 5 copies of hardware schedule with complete designation of every item required for each door opening, shop drawings and product data for specified hardware to Architect. Furnish 5 copies of complete schedule of key marking and master key system to Architect for review with Owner prior to approval. Submit 5 copies of manufacturer's certificate showing that fire rated hardware meets or exceeds specified requirements. Indicate locations and mounting heights of each type of hardware.
- Submit operation and maintenance data for all operating hardware including lubrication requirements, and inspection procedures related to preventative maintenance. Include name, address and telephone number of hardware supplier, maintenance instructions and parts list for each type of operating hardware. Provide maintenance tools and
- 8. accessories supplied by hardware component manufacturer.
  Building to have master key system. Supply 3 keys for each lock. Supply 5 master keys and 10 construction keys. Master keys shall be retained by hardware supplier until entire building or designated portion is ready for occupancy. When designated, make necessary modifications to locks to eliminate use of construction keys, and enable use of
- 9. permanent keys and keying system.
  Mounting heights for hardware shall be in accordance with the DHI "Recommended Locations for Builders Hardware", ICC/ANSI A117.1-1998 and the ADA Accessibility
- 10. Guidelines.

  Cut and fit thresholds to door frame profiles. Set all exterior thresholds in a continuous bed of sealant.
- Adjust, check and lubricate each operating hardware item and each door assembly to ensure proper operation and function. Replace units which cannot be adjusted to operate freely and smoothly.

### **Door Schedule**

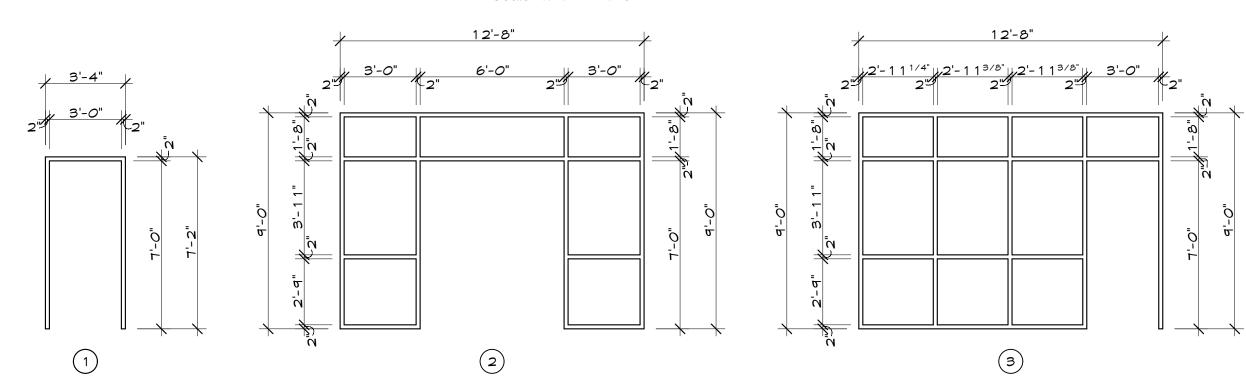
Mark	Size			Door			Frame			Spec.	Hdwe
	Width	Height	Thick.	Туре	Mat'l.	Fin.	Type	Mat'l.	Fin.	1	
First F											
100A	3'-0"	7'-0"	1-3/4"	Α	SCWD	Stn.	1	НМ	Pnt.	DF1	HW7
105A	3'-0"	7'-0"	1-3/4"	Α	SCWD	Stn.	1	HM	Pnt.	DF1	HW4
106A	3'-0"	7'-0"	1-3/4"	Α	SCWD	Stn.	1	HM	Pnt.	DF1	HW5
107A	3'-0"	7'-0"	1-3/4"	Α	SCWD	Stn.	1	HM	Pnt.	DF1	HW5
108A	3'-0"	7'-0"	1-3/4"	Α	SCWD	Stn.	1	НМ	Pnt.	DF1	HW6
109A	3'-0"	7'-0"	1-3/4"	Α	SCWD	Stn.	1	HM	Pnt.	DF1	HW6
110A	3'-0"	7'-0"	1-3/4"	Α	SCWD	Stn.	1	HM	Pnt.	DF1	HW5
112A	3'-0"	7'-0"	1-3/4"	A	SCWD	Stn.	1	HM	Pnt.	DF1	HW4
113A	(2)3'-0"	7'-0"	1-3/4"	В	Alum.	Prefin.	2	Alum.	Prefin.	DF2	HW1
114A	(2)3'-0"		1-3/4"	В	Alum.	Prefin.	2	Alum.	Prefin.	DF2	HW1
115A	3'-0"	7'-0"	1-3/4"	В	Alum.	Prefin.	2	Alum.	Prefin.	DF2	HW2
116A	3'-0"	7'-0"	1-3/4"	A	SCWD	Stn.	1	HM	Pnt.	DF1	HW5
120A	(2)3'-0"	7'-0"	1-3/4"	В	Alum.	Prefin.	2	Alum.	Prefin.	DF2	HW3
130A	(2)3'-0"	7'-0"	1-3/4"	В	Alum.	Prefin.	2	Alum.	Prefin.	DF2	HW3
140A	(2)3'-0"		1-3/4"	В	Alum.	Prefin.	2	Alum.	Prefin.	DF2	HW3
140B	3'-0"	7'-0"	1-3/4"	Α	SCWD	Stn.	1	HM	Pnt.	DF1	HW7
150A	(2)3'-0"	7'-0"	1-3/4"	В	Alum.	Prefin.	2	Alum.	Prefin.	DF2	HW3
150B	3'-0"	7'-0"	1-3/4"	Α	SCWD	Stn.	1	HM	Pnt.	DF1	HW7
160A	(2)3'-0"	7'-0"	1-3/4"	В	Alum.	Prefin.	2	Alum.	Prefin.	DF2	HW3
170A	(2)3'-0"	7'-0"	1-3/4"	В	Alum.	Prefin.	2	Alum.	Prefin.	DF2	HW3
180A	3'-0"	7'-0"	1-3/4"	Α	SCWD	Stn.	1	HM	Pnt.	DF1	HW7
	d Floor										
200A	3'-0"	7'-0"	1-3/4"	A	SCWD	Stn.	1	HM	Pnt.	DF1	HW7
200B	3'-0"	7'-0"	1-3/4"	Α	SCWD	Stn.	1	HM	Pnt.	DF1	HW7
205A	3'-0"	7'-0"	1-3/4"	Α	SCWD	Stn.	1	HM	Pnt.	DF1	HW4
206A	3'-0"	7'-0"	1-3/4"	Α	SCWD	Stn.	1	HM	Pnt.	DF1	HW5
207A	3'-0"	7'-0"	1-3/4"	Α	SCWD	Stn.	1	HM	Pnt.	DF1	HW5
208A	3'-0"	7'-0"	1-3/4"	Α	SCWD	Stn.	1	HM	Pnt.	DF1	HW6
209A	3'-0"	7'-0"	1-3/4"	Α	SCWD	Stn.	1	HM	Pnt.	DF1	HW6
210A	3'-0"	7'-0"	1-3/4"	A	SCWD	Stn.	1	HM	Pnt.	DF1	HW5
212A	3'-0"	7'-0"	1-3/4"	Α	SCWD	Stn.	1	HM	Pnt.	DF1	HW4
Third I		<del></del>									
300A		7'-0"	1-3/4"	A	SCWD	Stn.	1	HM	Pnt.	DF1	HW7
300B	3'-0"	7'-0"	1-3/4"	A	SCWD	Stn.	1	HM	Pnt.	DF1	HW7
305A	3'-0"	7'-0"	1-3/4"	A	SCWD	Stn.	1	HM	Pnt.	DF1	HW4
306A	3'-0"	7'-0"	1-3/4"	A	SCWD	Stn.	1	HM	Pnt.	DF1	HW5
307A	3'-0"	7'-0"	1-3/4"	A	SCWD	Stn.	1	HM	Pnt.	DF1	HW5
308A	3'-0"	7'-0"	1-3/4"	A	SCWD	Stn.	1	HM	Pnt.	DF1	HW6
309A	3'-0"	7'-0"	1-3/4"	A	SCWD	Stn.	1	HM	Pnt.	DF1	HW6
310A	3'-0"	7'-0"	1-3/4"	A	SCWD	Stn.	1	HM	Pnt.	DF1	HW5
312A	3'-0"	7'-0"	1-3/4"	<u> </u>	SCWD	Stn.	1	HM	Pnt.	DF1	HW4
	nd Fran	ne Speci	tication	s (Spe	c.):						
DF1											
DF2											

Scale: 1/4" = 1'-0"

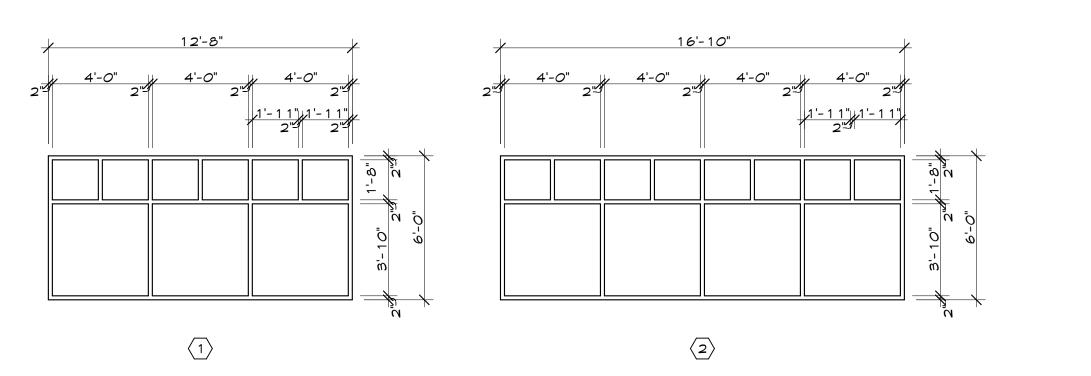
# 3'-0"

### Door Types

### Scale: 1/4" = 1'-0"



### Frame Types



### Mindow Types

### Scale: 1/4" = 1'-0"

HW1	vare Sets (Hdwe.):		
1441	1 Pair Doors 113A, (2) 30	6" x 84" x 1-3/4" - (1) LHR & (1) RHR AL DR x A	
	1 Pair Doors 114A, (2) 30 Hardware	6" x 84" x 1-3/4" - (1) LHR & (1) RHR AL DR x A Manufacturer & Model	LFR <b>Finish</b>
	4 Mortise Cylinders	Sargent 41 13-0512	26D
	4 Blocking Rings 4 Cylinder Rings	Sargent 90 x 3/8 1KB	26D 26D
	4 Keying 4 Top Offset Pivots	MK CK, by hardware supplier by door supplier	- TBD
	4 Intermediate Pivots	by door supplier	TBD
	4 Btm. Offset Pivots 4 Exit Devices	by door supplier by door supplier	TBD TBD
	(concealed rod devices) 4 Pull Bars		TBD
	4 Surface Closers	by door supplier by door supplier	TBD
	2 Thresholds 2 Weatherstripping	by door supplier by door supplier	Mill Fin. Alum.
1/4/2	4 Door Sweeps	by door supplier	Mill Fin. Alum.
HW2	Door 1 Single Door 115A, 36"	x 84" x 1-3/4" - RHR AL DR x AL FR	
	Hardware 2 Mortise Cylinders	Manufacturer & Model Sargent 41 13-0512	<b>Finish</b> 26D
	2 Blocking Rings	Sargent 90 x 3/8	26D
	2 Cylinder Rings 2 Keying	1KB MK CK, by hardware supplier	26D -
	1 Top Offset Pivot 1 Intermediate Pivot	by door supplier by door supplier	TBD TBD
	1 Btm. Offset Pivot	by door supplier	TBD
	1 Exit Device (concealed rod device)	by door supplier	TBD
	1 Pull Bar	by door supplier	TBD
	1 Surface Closer 1 Threshold	by door supplier by door supplier	TBD Mill. Fin. Alum.
	1 Weatherstripping 1 Door Sweep	by door supplier by door supplier	- Mill. Fin. Alum.
łW3	Doors	· ·	
	1 Pair Doors 130A, (2) 3	6" x 84" x 1-3/4" - (1) LHR & (1) RHR AL DR x A 6" x 84" x 1-3/4" - (1) LHR & (1) RHR AL DR x A	L FR
		6" x 84" x 1-3/4" - (1) LHR & (1) RHR AL DR x A 6" x 84" x 1-3/4" - (1) LHR & (1) RHR AL DR x A	
	1 Pair Doors 160A, (2) 3	6" x 84" x 1-3/4" - (1) LHR & (1) RHR AL DR x A	L FR
	Hardware	6" x 84" x 1-3/4" - (1) LHR & (1) RHR AL DR x A Manufacturer & Model	Finish
	12 Mortise Cylinders 12 Blocking Rings	Sargent 41 13-0512 Sargent 90 x 3/8	26D 26D
	12 Cylinder Rings	1KB	26D 26D
	12 Keying (6) 3-Pt. Deadbolt Locks	MK CK, by hardware supplier by door supplier	- -
	6 Exit Indicators	by door supplier	TBD
	12 Pull Bars 12 Push Bars	by door supplier by door supplier	TBD TBD
	12 Surface Closers 6 Thresholds	by door supplier by door supplier	TBD Mill. Fin. Alum.
	6 Weatherstripping	by door supplier	-
	12 Door Sweeps 6 Signs	by door supplier by hardware supplier	Mill. Fin. Alum. -
lW4		IN UNLOCKED WHEN BUILDING IS OCCUPIE	ED")
144-	1 Single Door 105A, 36"	x 84" x 1-3/4" - LHR SCWD DR x HM FR	
		x 84" x 1-3/4" - LHR SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR x HM FR	
	1 Single Door 212A, 36"	x 84" x 1-3/4" - RH SCWD DR x HM FR	
		x 84" x 1-3/4" - RH SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR x HM FR	
	Hardware	Manufacturer & Model H.B Ives 5BB1 4-1/2 x 4-1/2 NRP	Finish 652
	LIA HIDOES		
	18 Hinges 6 Exit Devices	Sargent 3828 F	EN
		Sargent 3828 F	
	6 Exit Devices 6 Exit Device Trims 6 Surface Closers 6 Wall Bumpers	Sargent 3828 F Sargent 28-K LL LCN 1461 REG/PA H.B. Ives WS407CCV	EN 26D
	6 Exit Devices 6 Exit Device Trims 6 Surface Closers 6 Wall Bumpers 18 Door Silencers 6 Keying	Sargent 3828 F Sargent 28-K LL LCN 1461 REG/PA	EN 26D AL
łW5	6 Exit Devices 6 Exit Device Trims 6 Surface Closers 6 Wall Bumpers 18 Door Silencers 6 Keying  Door	Sargent 3828 F Sargent 28-K LL LCN 1461 REG/PA H.B. Ives WS407CCV H.B Ives SR64 X	EN 26D AL
łW5	6 Exit Devices 6 Exit Device Trims 6 Surface Closers 6 Wall Bumpers 18 Door Silencers 6 Keying  Door 1 Single Door 106A, 36" 1 Single Door 107A, 36"	Sargent 3828 F Sargent 28-K LL LCN 1461 REG/PA H.B. Ives WS407CCV H.B Ives SR64 X MK CK, by hardware supplier  x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - LHR SCWD DR x HM FR	EN 26D AL
łW5	6 Exit Devices 6 Exit Device Trims 6 Surface Closers 6 Wall Bumpers 18 Door Silencers 6 Keying  Door 1 Single Door 106A, 36" 1 Single Door 107A, 36" 1 Single Door 110A, 36" 1 Single Door 116A, 36"	Sargent 3828 F Sargent 28-K LL LCN 1461 REG/PA H.B. Ives WS407CCV H.B Ives SR64 X MK CK, by hardware supplier  x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - LHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR	EN 26D AL
łW5	6 Exit Devices 6 Exit Device Trims 6 Surface Closers 6 Wall Bumpers 18 Door Silencers 6 Keying  Door 1 Single Door 106A, 36" 1 Single Door 110A, 36" 1 Single Door 116A, 36" 1 Single Door 116A, 36" 1 Single Door 206A, 36"	Sargent 3828 F Sargent 28-K LL LCN 1461 REG/PA H.B. Ives WS407CCV H.B Ives SR64 X MK CK, by hardware supplier  x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - LHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR	EN 26D AL
HW5	6 Exit Devices 6 Exit Device Trims 6 Surface Closers 6 Wall Bumpers 18 Door Silencers 6 Keying  Door 1 Single Door 106A, 36" 1 Single Door 107A, 36" 1 Single Door 110A, 36" 1 Single Door 116A, 36" 1 Single Door 206A, 36" 1 Single Door 207A, 36" 1 Single Door 210A, 36"	Sargent 3828 F Sargent 28-K LL LCN 1461 REG/PA H.B. Ives WS407CCV H.B Ives SR64 X MK CK, by hardware supplier  x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - LHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - LHR SCWD DR x HM FR x 84" x 1-3/4" - LHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR	EN 26D AL
łW5	6 Exit Devices 6 Exit Device Trims 6 Surface Closers 6 Wall Bumpers 18 Door Silencers 6 Keying  Door 1 Single Door 106A, 36" 1 Single Door 107A, 36" 1 Single Door 110A, 36" 1 Single Door 116A, 36" 1 Single Door 206A, 36" 1 Single Door 207A, 36" 1 Single Door 210A, 36" 1 Single Door 306A, 36"	Sargent 3828 F Sargent 28-K LL LCN 1461 REG/PA H.B. Ives WS407CCV H.B Ives SR64 X MK CK, by hardware supplier  x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - LHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - LHR SCWD DR x HM FR x 84" x 1-3/4" - LHR SCWD DR x HM FR	EN 26D AL
HW5	6 Exit Devices 6 Exit Device Trims 6 Surface Closers 6 Wall Bumpers 18 Door Silencers 6 Keying  Door 1 Single Door 106A, 36" 1 Single Door 107A, 36" 1 Single Door 110A, 36" 1 Single Door 116A, 36" 1 Single Door 206A, 36" 1 Single Door 207A, 36" 1 Single Door 306A, 36" 1 Single Door 307A, 36" 1 Single Door 307A, 36" 1 Single Door 307A, 36" 1 Single Door 310A, 36"	Sargent 3828 F Sargent 28-K LL LCN 1461 REG/PA H.B. Ives WS407CCV H.B Ives SR64 X MK CK, by hardware supplier   × 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - LHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - LHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR	EN 26D AL US32D - -
łW5	6 Exit Devices 6 Exit Device Trims 6 Surface Closers 6 Wall Bumpers 18 Door Silencers 6 Keying  Door 1 Single Door 106A, 36" 1 Single Door 107A, 36" 1 Single Door 110A, 36" 1 Single Door 116A, 36" 1 Single Door 206A, 36" 1 Single Door 207A, 36" 1 Single Door 210A, 36" 1 Single Door 307A, 36" 1 Single Door 307A, 36" 1 Single Door 310A, 36" Hardware 30 Hinges	Sargent 3828 F Sargent 28-K LL LCN 1461 REG/PA H.B. Ives WS407CCV H.B Ives SR64 X MK CK, by hardware supplier  x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - LHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - LHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR Manufacturer & Model H.B Ives 5BB1 4-1/2 x 4-1/2 NRP	EN 26D AL US32D - - - - <b>Finish</b> 652
<del>1</del> W5	6 Exit Devices 6 Exit Device Trims 6 Surface Closers 6 Wall Bumpers 18 Door Silencers 6 Keying  Door 1 Single Door 106A, 36" 1 Single Door 107A, 36" 1 Single Door 110A, 36" 1 Single Door 116A, 36" 1 Single Door 206A, 36" 1 Single Door 207A, 36" 1 Single Door 306A, 36" 1 Single Door 306A, 36" 1 Single Door 307A, 36" 1 Single Door 307A, 36" 1 Single Door 310A, 36" Hardware	Sargent 3828 F Sargent 28-K LL LCN 1461 REG/PA H.B. Ives WS407CCV H.B Ives SR64 X MK CK, by hardware supplier  x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - LHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - LHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR Manufacturer & Model H.B Ives 5BB1 4-1/2 x 4-1/2 NRP Sargent 7G04 LL	EN 26D AL US32D - - -
IW5	6 Exit Devices 6 Exit Device Trims 6 Surface Closers 6 Wall Bumpers 18 Door Silencers 6 Keying  Door 1 Single Door 106A, 36" 1 Single Door 110A, 36" 1 Single Door 110A, 36" 1 Single Door 206A, 36" 1 Single Door 207A, 36" 1 Single Door 207A, 36" 1 Single Door 306A, 36" 1 Single Door 307A, 36" 1 Single Door 310A, 36" Hardware 30 Hinges 10 Locksets 10 Surface Closers 10 Wall Bumpers	Sargent 3828 F Sargent 28-K LL LCN 1461 REG/PA H.B. Ives WS407CCV H.B Ives SR64 X MK CK, by hardware supplier  x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - LHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3	EN 26D AL US32D  Finish 652 26D AL US32D
	6 Exit Devices 6 Exit Device Trims 6 Surface Closers 6 Wall Bumpers 18 Door Silencers 6 Keying  Door 1 Single Door 106A, 36" 1 Single Door 110A, 36" 1 Single Door 110A, 36" 1 Single Door 206A, 36" 1 Single Door 207A, 36" 1 Single Door 207A, 36" 1 Single Door 306A, 36" 1 Single Door 307A, 36" 1 Single Door 307A, 36" 1 Single Door 307A, 36" 1 Single Door 310A, 36" Hardware 30 Hinges 10 Locksets 10 Surface Closers 10 Wall Bumpers 30 Door Silencers 10 Keying	Sargent 3828 F Sargent 28-K LL LCN 1461 REG/PA H.B. Ives WS407CCV H.B Ives SR64 X MK CK, by hardware supplier  x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - LHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3	EN 26D AL US32D  Finish 652 26D AL
	6 Exit Devices 6 Exit Device Trims 6 Surface Closers 6 Wall Bumpers 18 Door Silencers 6 Keying  Door 1 Single Door 106A, 36" 1 Single Door 110A, 36" 1 Single Door 110A, 36" 1 Single Door 206A, 36" 1 Single Door 207A, 36" 1 Single Door 207A, 36" 1 Single Door 306A, 36" 1 Single Door 307A, 36" 1 Single Door 307A, 36" 1 Single Door 310A, 36" 1 Single Door 310A, 36" Hardware 30 Hinges 10 Locksets 10 Surface Closers 10 Wall Bumpers 30 Door Silencers 10 Keying  Door	Sargent 3828 F Sargent 28-K LL LCN 1461 REG/PA H.B. Ives WS407CCV H.B Ives SR64 X MK CK, by hardware supplier  x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - LHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - LHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - LHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3	EN 26D AL US32D  Finish 652 26D AL US32D
	6 Exit Devices 6 Exit Device Trims 6 Surface Closers 6 Wall Bumpers 18 Door Silencers 6 Keying  Door 1 Single Door 106A, 36" 1 Single Door 110A, 36" 1 Single Door 116A, 36" 1 Single Door 206A, 36" 1 Single Door 207A, 36" 1 Single Door 207A, 36" 1 Single Door 306A, 36" 1 Single Door 307A, 36" 1 Single Door 307A, 36" 1 Single Door 310A, 36" Hardware 30 Hinges 10 Locksets 10 Surface Closers 10 Wall Bumpers 30 Door Silencers 10 Keying  Door 1 Single Door 108A, 36" 1 Single Door 109A, 36"	Sargent 3828 F Sargent 28-K LL LCN 1461 REG/PA H.B. Ives WS407CCV H.B Ives SR64 X MK CK, by hardware supplier   × 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - LHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - LHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - LHR SCWD DR x HM FR x 84" x 1-3/4" - LHR SCWD DR x HM FR Manufacturer & Model H.B Ives 5BB1 4-1/2 x 4-1/2 NRP Sargent 7G04 LL LCN 1461 REG/PA H.B. Ives WS407CCV H.B Ives SR64 X MK CK, by hardware supplier  x 84" x 1-3/4" - LH SCWD DR x HM FR x 84" x 1-3/4" - LH SCWD DR x HM FR	EN 26D AL US32D  Finish 652 26D AL US32D
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	6 Exit Devices 6 Exit Device Trims 6 Surface Closers 6 Wall Bumpers 18 Door Silencers 6 Keying  Door 1 Single Door 106A, 36" 1 Single Door 107A, 36" 1 Single Door 110A, 36" 1 Single Door 206A, 36" 1 Single Door 207A, 36" 1 Single Door 207A, 36" 1 Single Door 306A, 36" 1 Single Door 307A, 36" 1 Single Door 307A, 36" 1 Single Door 307A, 36" 1 Single Door 310A, 36" 1 Single Door 308A, 36" 1 Single Door 308A, 36" 1 Single Door 309A, 36" 1 Single Door 309A, 36" Hardware 18 Hinges 6 Push Plates 6 Pull Plates 6 Surface Closers 12 Kickplates	Sargent 3828 F Sargent 28-K LL LCN 1461 REG/PA H.B. Ives WS407CCV H.B Ives SR64 X MK CK, by hardware supplier  x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR Manufacturer & Model H.B Ives 5BB1 4-1/2 x 4-1/2 NRP Sargent 7G04 LL LCN 1461 REG/PA H.B. Ives WS407CCV H.B Ives WS407CCV H.B Ives SR64 X MK CK, by hardware supplier  x 84" x 1-3/4" - LH SCWD DR x HM FR x 84" x 1-3/4" - LH SCWD DR x HM FR x 84" x 1-3/4" - LH SCWD DR x HM FR x 84" x 1-3/4" - LH SCWD DR x HM FR x 84" x 1-3/4" - LH SCWD DR x HM FR x 84" x 1-3/4" - LH SCWD DR x HM FR x 84" x 1-3/4" - LH SCWD DR x HM FR x 84" x 1-3/4" - LH SCWD DR x HM FR x 84" x 1-3/4" - LH SCWD DR x HM FR x 84" x 1-3/4" - LH SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR	EN 26D AL US32D  Finish 652 26D AL US32D  Finish 652 32D AL 32D AL 32D AL 32D
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∃W6	6 Exit Devices 6 Exit Device Trims 6 Surface Closers 6 Wall Bumpers 18 Door Silencers 6 Keying  Door 1 Single Door 106A, 36" 1 Single Door 107A, 36" 1 Single Door 110A, 36" 1 Single Door 206A, 36" 1 Single Door 207A, 36" 1 Single Door 207A, 36" 1 Single Door 210A, 36" 1 Single Door 306A, 36" 1 Single Door 307A, 36" 1 Single Door 310A, 36" 1 Single Door 310A, 36" Hardware 30 Hinges 10 Locksets 10 Surface Closers 10 Wall Bumpers 30 Door Silencers 10 Wall Bumpers 30 Door Silencers 10 Keying  Door 1 Single Door 108A, 36" 1 Single Door 208A, 36" 1 Single Door 308A, 36" 1 Single Door 309A, 36" 1 Single Door 309A, 36" Hardware 18 Hinges 6 Push Plates 6 Pull Plates 6 Surface Closers 12 Kickplates 6 Wall Bumpers 18 Door Silencers  Doors 1 Single Door 100A, 36"	Sargent 3828 F Sargent 28-K LL LCN 1461 REG/PA H.B. Ives WS407CCV H.B Ives SR64 X MK CK, by hardware supplier  x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR Manufacturer & Model H.B Ives 5BB1 4-1/2 x 4-1/2 NRP Sargent 7G04 LL LCN 1461 REG/PA H.B. Ives WS407CCV H.B Ives WS407CCV H.B Ives SR64 X MK CK, by hardware supplier  x 84" x 1-3/4" - LH SCWD DR x HM FR x 84" x 1-3/4" - LH SCWD DR x HM FR x 84" x 1-3/4" - LH SCWD DR x HM FR x 84" x 1-3/4" - LH SCWD DR x HM FR x 84" x 1-3/4" - LH SCWD DR x HM FR x 84" x 1-3/4" - LH SCWD DR x HM FR x 84" x 1-3/4" - LH SCWD DR x HM FR x 84" x 1-3/4" - LH SCWD DR x HM FR x 84" x 1-3/4" - LH SCWD DR x HM FR x 84" x 1-3/4" - LH SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR	EN 26D AL US32D  Finish 652 26D AL US32D  Finish 652 32D AL 32D AL 32D AL 32D
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∃W6	6 Exit Devices 6 Exit Device Trims 6 Surface Closers 6 Wall Bumpers 18 Door Silencers 6 Keying  Door 1 Single Door 106A, 36" 1 Single Door 107A, 36" 1 Single Door 110A, 36" 1 Single Door 206A, 36" 1 Single Door 207A, 36" 1 Single Door 207A, 36" 1 Single Door 307A, 36" 1 Single Door 307A, 36" 1 Single Door 310A, 36" Hardware 30 Hinges 10 Locksets 10 Surface Closers 10 Wall Bumpers 30 Door Silencers 10 Keying  Door 1 Single Door 108A, 36" 1 Single Door 209A, 36" 1 Single Door 308A, 36" 1 Single Door 309A, 36" 1 Single Door 309A, 36" 1 Single Door 309A, 36" Hardware 18 Hinges 6 Push Plates 6 Pull Plates 6 Pull Plates 6 Surface Closers 12 Kickplates 6 Wall Bumpers 18 Door Silencers 12 Kickplates 6 Surface Closers 13 Single Door 100A, 36" 1 Single Door 200A, 36" 1 Single Door 200A, 36" 1 Single Door 300A, 36"	Sargent 3828 F Sargent 28-K LL LCN 1461 REG/PA H.B. Ives WS407CCV H.B Ives SR64 X MK CK, by hardware supplier   X 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - LHR SCWD DR x HM FR x 84" x 1-3/4" - LHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR x HM FR x 84" x 1-3/4" - LH SCWD DR x HM FR x 84" x 1-3/4" - LH SCWD DR x HM FR x 84" x 1-3/4" - LH SCWD DR x HM FR x 84" x 1-3/4" - LH SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - LHR SCWD DR x HM FR x 84" x 1-3/4" - LHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR	EN 26D AL US32D  Finish 652 26D AL US32D  Finish 652 32D AL 32D AL 32D AL
HW5	6 Exit Devices 6 Exit Device Trims 6 Surface Closers 6 Wall Bumpers 18 Door Silencers 6 Keying  Door 1 Single Door 106A, 36" 1 Single Door 107A, 36" 1 Single Door 110A, 36" 1 Single Door 206A, 36" 1 Single Door 206A, 36" 1 Single Door 207A, 36" 1 Single Door 306A, 36" 1 Single Door 307A, 36" 1 Single Door 307A, 36" 1 Single Door 310A, 36" Hardware 30 Hinges 10 Locksets 10 Surface Closers 10 Wall Bumpers 30 Door Silencers 10 Keying  Door 1 Single Door 108A, 36" 1 Single Door 208A, 36" 1 Single Door 308A, 36" 1 Single Door 309A, 36" 1 Single Door 100A, 36" 1 Single Door 100A, 36" 1 Single Door 150B, 36" 1 Single Door 150B, 36" 1 Single Door 150B, 36" 1 Single Door 200A, 36" 1 Single Door 300A, 36"	Sargent 3828 F Sargent 28-K LL LCN 1461 REG/PA H.B. Ives WS407CCV H.B Ives SR64 X MK CK, by hardware supplier   x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR x HM FR x 84" x 1-3/4" - LH SCWD DR x HM FR x 84" x 1-3/4" - LH SCWD DR x HM FR x 84" x 1-3/4" - LH SCWD DR x HM FR x 84" x 1-3/4" - LH SCWD DR x HM FR x 84" x 1-3/4" - LH SCWD DR x HM FR x 84" x 1-3/4" - LH SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR x HM FR x 84" x 1-3/4" - LH SCWD DR x HM FR x 84" x 1-3/4" - LH SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - LHR SCWD DR x HM FR x 84" x 1-3/4" - LHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD	EN 26D AL US32D
∃W6	6 Exit Devices 6 Exit Device Trims 6 Surface Closers 6 Wall Bumpers 18 Door Silencers 6 Keying  Door 1 Single Door 106A, 36" 1 Single Door 107A, 36" 1 Single Door 110A, 36" 1 Single Door 206A, 36" 1 Single Door 206A, 36" 1 Single Door 207A, 36" 1 Single Door 306A, 36" 1 Single Door 307A, 36" 1 Single Door 307A, 36" 1 Single Door 307A, 36" 1 Single Door 310A, 36" 1 Single Door 308A, 36" 1 Single Door 308A, 36" 1 Single Door 309A, 36" 1 Single Door 100A, 36" 1 Single Door 100A, 36" 1 Single Door 150B, 36" 1 Single Door 150B, 36" 1 Single Door 200A, 36" 1 Single Door 300A, 36" 1 Single Door 300A, 36" 1 Single Door 300A, 36" 1 Single Door 300B, 36"	Sargent 3828 F Sargent 28-K LL LCN 1461 REG/PA H.B. Ives WS407CCV H.B Ives SR64 X MK CK, by hardware supplier   x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR x HM FR x 84" x 1-3/4" - RH SCWD DR x HM FR x 84" x 1-3/4" - RHR SCWD	EN 26D AL US32D

### Finish Schedule

Rm.	Name	Floor	Base	Walls		Ceiling			Spec.				
<b></b>	l tuille	1001	Busc	Mat'l.	Fin.	Mat'l.	Fin.	Hgt.					
irst	Floor	I	!	1	1	1	1	111911					
00	Tenant	Conc.	none	none	none	none	none	na	G1,F1				
01	Corridor	Carpet	Tile	Gyp.Bd.	Pnt.	Gyp.Bd./SAT	Pnt.	9'/10'	F3,B1,W1,W3,C1,C3				
102	Corridor	Carpet	Tile	Gyp.Bd.	Pnt.	Gyp.Bd./SAT	Pnt.	9'/10'	F3,B1,W1,W3,C1,C3				
103	Corridor	Carpet	Tile	Gyp.Bd.	Pnt.	Gyp.Bd./SAT	Pnt.	9'/10'	F3,B1,W1,W3,C1,C3				
104	Corridor	Carpet	Tile	Gyp.Bd.	Pnt.	Gyp.Bd./SAT	Pnt.	9'/10'	F3,B1,W1,W3,C1,C3				
105	Stair	Conc.	Rubber		Pnt.	Exp.Struc.	Pnt.		F2,B2,W2,C5				
				Gyp.Bd.				na					
106	Electrical	Conc.	Rubber	Gyp.Bd.	Pnt.	Exp.Struc.	Pnt.	na	F2,B2,W2,C5				
107	Janitor	Conc.	Rubber	Gyp.Bd.	Pnt.	Exp.Struc.	Pnt.	na	F2,B2,W2,W5,C5				
108	Women's	Tile	Tile	Gyp.Bd.	Pnt.	Gyp.Bd./SAT	Pnt.	8'/9'	F4,B3,W1,W4,C2,C4				
109	Men's	Tile	Tile	Gyp.Bd.	Pnt.	Gyp.Bd./SAT	Pnt.	8'/9'	F4,B3,W1,W4,C2,C4				
110	Comm.	Conc.	Rubber	Gyp.Bd.	Pnt.	Exp.Struc.	Pnt.	na	F2,B2,W2,C5				
111	Elevator	na	na	Gyp.Bd.	none	na	na	na	na				
112	Stair	Conc.	Rubber	Gyp.Bd.	Pnt.	Exp.Struc.	Pnt.	na	F2,B2,W2,C5				
113	Lobby	Tile	Tile	Gyp.Bd.	Pnt.	Gyp.Bd.	Pnt.	1	F5,B1,W1,W3,C2				
114	Foyer	Tile	Tile	Gyp.Bd.	Pnt.	Gyp.Bd.	Pnt.	+	F5,B1,W1,W3,C1				
115	Corridor	Carpet	Tile		Pnt.	Gyp.Bd./SAT	Pnt.	9'/10'	F3,B1,W1,W4,C1,C3				
				Gyp.Bd.		, ·							
116	Sprinkler	Conc.	Rubber	Gyp.Bd.	Pnt.	Exp.Struc.	Pnt.	na	F2,B2,W2,C5				
120	Tenant	Conc.	none	none	none	none	none	na	G1,F1				
130	Tenant	Conc.	none	none	none	none	none	na	G1,F1				
140	Tenant	Conc.	none	none	none	none	none	na	G1,F1				
150	Tenant	Conc.	none	none	none	none	none	na	G1,F1				
160	Tenant	Conc.	none	none	none	none	none	na	G1,F1				
170	Tenant	Conc.	none	none	none	none	none	na	G1,F1				
180	Tenant	Conc.	none	none	none	none	none	na	G1,F1				
	nd Floor	LOUIL.	THOUSE	THORIE	THOLIC	THORIE	THOUSE	Ina	101,11				
		I C = = =	Incn-	Inone	lno	Inone	Inc	Ina	TC1 F1				
200	Tenant	Conc.	none	none	none	none	none	na	G1,F1				
201	Corridor	Carpet	Tile	Gyp.Bd.	Pnt.	Gyp.Bd./SAT	Pnt.	9'/10'	F3,B1,W1,W3,C1,C3				
202	Corridor	Carpet	Tile	Gyp.Bd.	Pnt.	Gyp.Bd./SAT	Pnt.	9'/10'	F3,B1,W1,W3,C1,C3				
203	Corridor	Carpet	Tile	Gyp.Bd.	Pnt.	Gyp.Bd./SAT	Pnt.	9'/10'	F3,B1,W1,W3,C1,C3				
204	Corridor	Carpet	Tile	Gyp.Bd.	Pnt.	Gyp.Bd./SAT	Pnt.	9'/10'	F3,B1,W1,W3,C1,C3				
205	Stair	Conc.	Rubber	Gyp.Bd.	Pnt.	Exp.Struc.	Pnt.	na	F2,B2,W2,C5				
206	Electrical	Conc.	Rubber	Gyp.Bd.	Pnt.	Exp.Struc.	Pnt.	na	F2,B2,W2,C5				
207	Janitor	Conc.	Rubber		Pnt.		Pnt.		F2,B2,W2,W5,C5				
				Gyp.Bd.		Exp.Struc.		na					
208	Women's	Tile	Tile	Gyp.Bd.	Pnt.	Gyp.Bd./SAT	Pnt.	8'/9'	F4,B3,W1,W4,C2,C4				
209	Men's	Tile	Tile	Gyp.Bd.	Pnt.	Gyp.Bd./SAT	Pnt.	8'/9'	F4,B3,W1,W4,C2,C4				
210	Comm.	Conc.	Rubber	Gyp.Bd.	Pnt.	Exp.Struc.	Pnt.	na	F2,B2,W2,C5				
211	Elevator	na	na	Gyp.Bd.	none	na	na	na	na				
212	Stair	Conc.	Rubber	Gyp.Bd.	Pnt.	Exp.Struc.	Pnt.	na	F2,B2,W2,C5				
	Floor	100110.	Trabbon	Тоур.ва.	1	LAP.Olido.	1	μ.ια	11 2,82,112,00				
300		ICana	Inono	Inone	Inone	Inono	Inono	Tno	TO4 E4				
	Tenant	Conc.	none	none	none	none	none	na	G1,F1				
301	Corridor	Carpet	Tile	Gyp.Bd.	Pnt.	Gyp.Bd./SAT	Pnt.	9'/10'	F3,B1,W1,W3,C1,C3				
302	Corridor	Carpet	Tile	Gyp.Bd.	Pnt.	Gyp.Bd./SAT	Pnt.	9'/10'	F3,B1,W1,W3,C1,C3				
303	Corridor	Carpet	Tile	Gyp.Bd.	Pnt.	Gyp.Bd./SAT	Pnt.	9'/10'	F3,B1,W1,W3,C1,C3				
304	Corridor	Carpet	Tile	Gyp.Bd.	Pnt.	Gyp.Bd./SAT	Pnt.	9'/10'	F3,B1,W1,W3,C1,C3				
305	Stair	Conc.	Rubber	Gyp.Bd.	Pnt.	Exp.Struc./SFP	Pnt.	na	F2,B2,W2,C6				
306	Electrical	Conc.	Rubber	Gyp.Bd.	Pnt.	Exp.Struc.	Pnt.	na	F2,B2,W2,C5				
307	Janitor	Conc.	Rubber	Gyp.Bd.	Pnt.	Exp.Struc.	Pnt.	na	F2,B2,W2,W5,C5				
308	Women's	Tile	Tile	Gyp.Bd.	Pnt.	Gyp.Bd./SAT	Pnt.	8'/9'	F4,B3,W1,W4,C2,C4				
309	Men's	Tile	Tile	Gyp.Bd.	Pnt.	Gyp.Bd./SAT	Pnt.	8'/9'	F4,B3,W1,W4,C2,C4				
310	Elev. Eqpt.	Conc.	Rubber	Gyp.Bd.	Pnt.	Exp.Struc.	Pnt.	na	F2,B2,W2,C5				
311	Elevator	na	na	Gyp.Bd.	none	Exp.Struc./SFP	Pnt.	na	na				
312	Stair	Conc.	Rubber	Gyp.Bd.	Pnt.	Exp.Struc./SFP	Pnt.	na	F2,B2,W2,C6				
	n Specification			- J		, , , , , , , , , , , , , , , , , , ,			, =, - : = ; = =				
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Gene G1		nont on a	20										
_	Unfinished to	энані зрас	<b>√</b> C										
Floor	-		- I-										
F1	Unfinished of												
F2			with 2-cts.	PROSOCO	SpecSeal	WB-Flat. Prepare	surface a	nd apply	per manufacturer's				
	recommenda	ations.											
F3	Carpet												
F4	Tile												
F5	Tile												
Bases													
B1	Tile												
20	Rubber cove	base											
	Tile												
<b>B</b> 3					_		_	_					
B3		ard											
B3 Walls	Gynsum hos												
B3 Walls W1	Gypsum boa	Gypsum board											
B3 Walls W1 W2	Gypsum boa	ard											
B3 Walls W1 W2 W3	Gypsum boa Wainscot	ard											
B2 B3 Walls W1 W2 W3	Gypsum boa Wainscot Wainscot	ard											
B3 Walls W1 W2 W3	Gypsum boa Wainscot	ard											
B3 Walls W1 W2 W3 W4 W5	Gypsum boa Wainscot Wainscot FRP	ard											
Walls Walls W1 W2 W3 W4 W5 Ceilin	Gypsum boa Wainscot Wainscot FRP												
Walls Walls W1 W2 W3 W4 W5 Ceilin	Gypsum boa Wainscot Wainscot FRP gs Gypsum boa	ard soffit											
Walls Walls W1 W2 W3 W4 W5 Ceilin C1	Gypsum boa Wainscot Wainscot FRP gs Gypsum boa Gypsum boa	ard soffit	ve										
Walls Walls W1 W2 W3 W4 W5 Ceillin C1 C2	Gypsum boa Wainscot Wainscot FRP Gypsum boa Gypsum boa SAT	ard soffit	ve										
33 Walls W1 W2 W3 W4 W5 Ceilin C1 C2 C3	Gypsum boa Wainscot Wainscot FRP gs Gypsum boa Gypsum boa SAT SAT	ard soffit ard light co	ve										
Nalls Nalls N1 N2 N3 N4 N5 Ceilin C1 C2	Gypsum boa Wainscot Wainscot FRP Gypsum boa Gypsum boa SAT	ard soffit ard light co	ve										

job JOP
drawn DRF
checked JFH
issued for
9/15/08 Bid and Plan Review

Jefferson

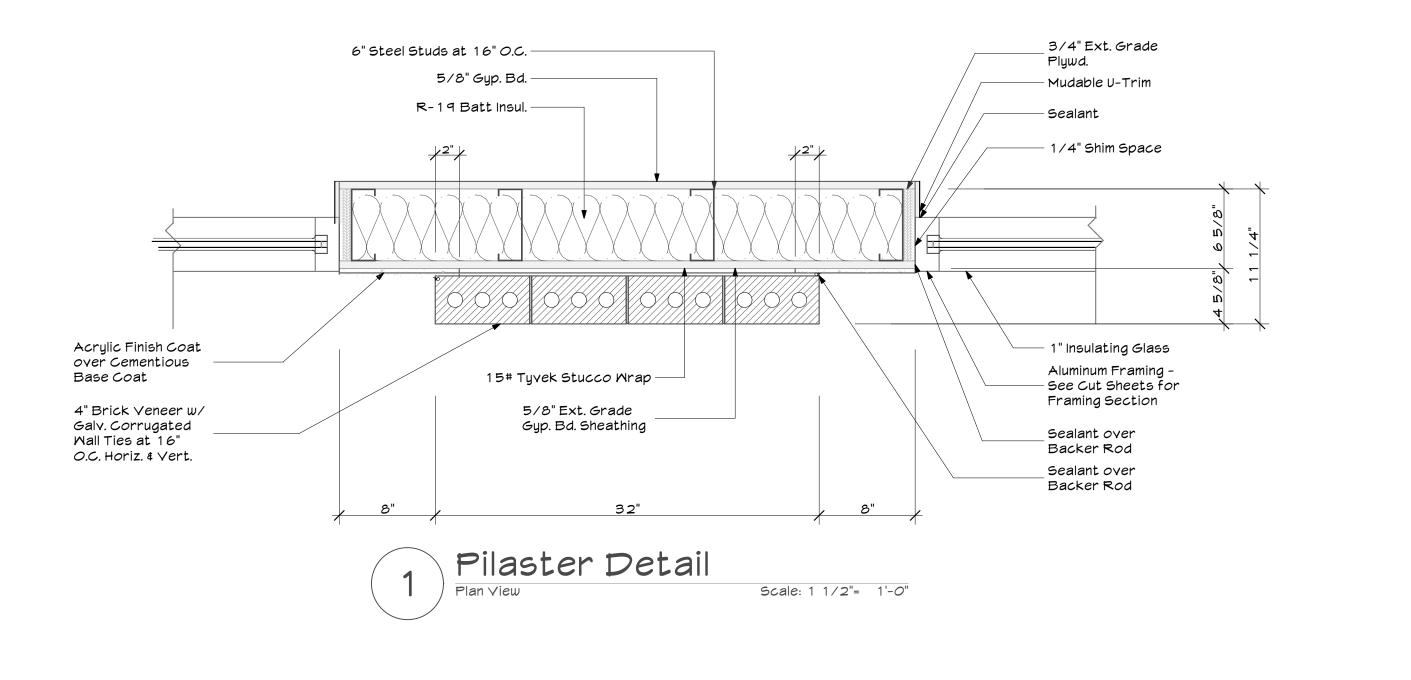
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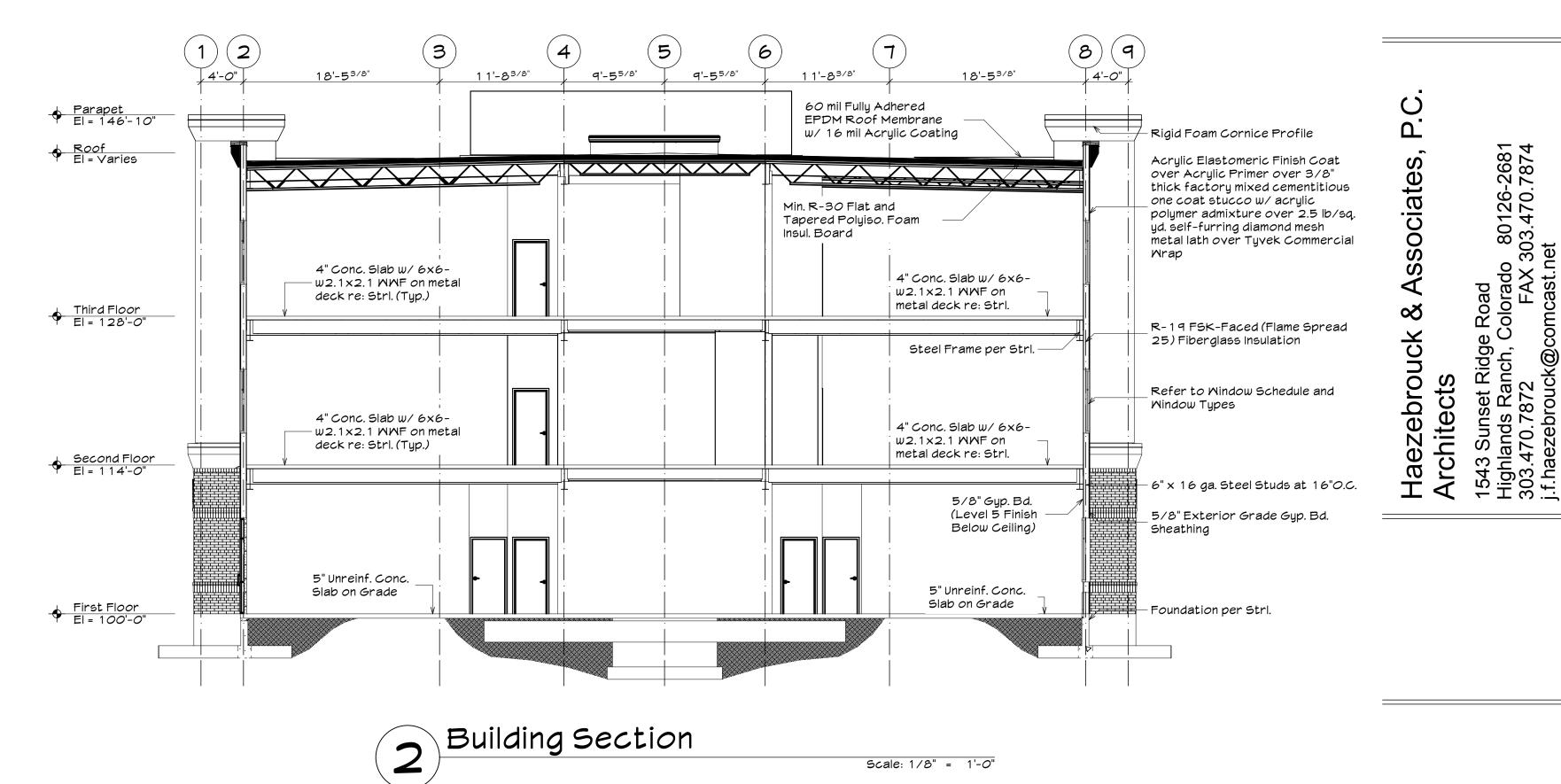
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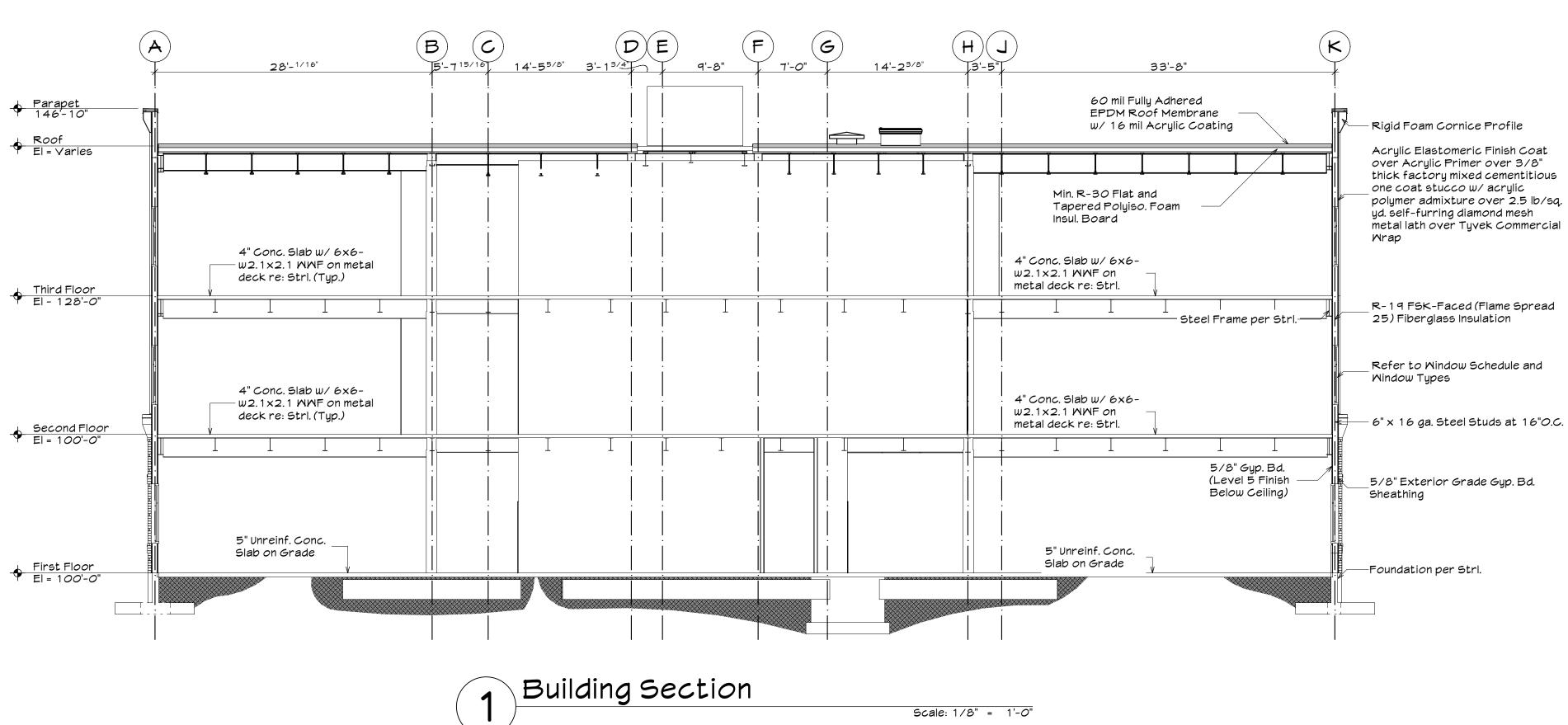
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Scale: 1/8" = 1'-0"

Scale: 1/8" = 1'-0"



### Park ilding Type 1 hnson Road colorado 80219 ffice Office Builo 1030 John Golden, Co Jefferson

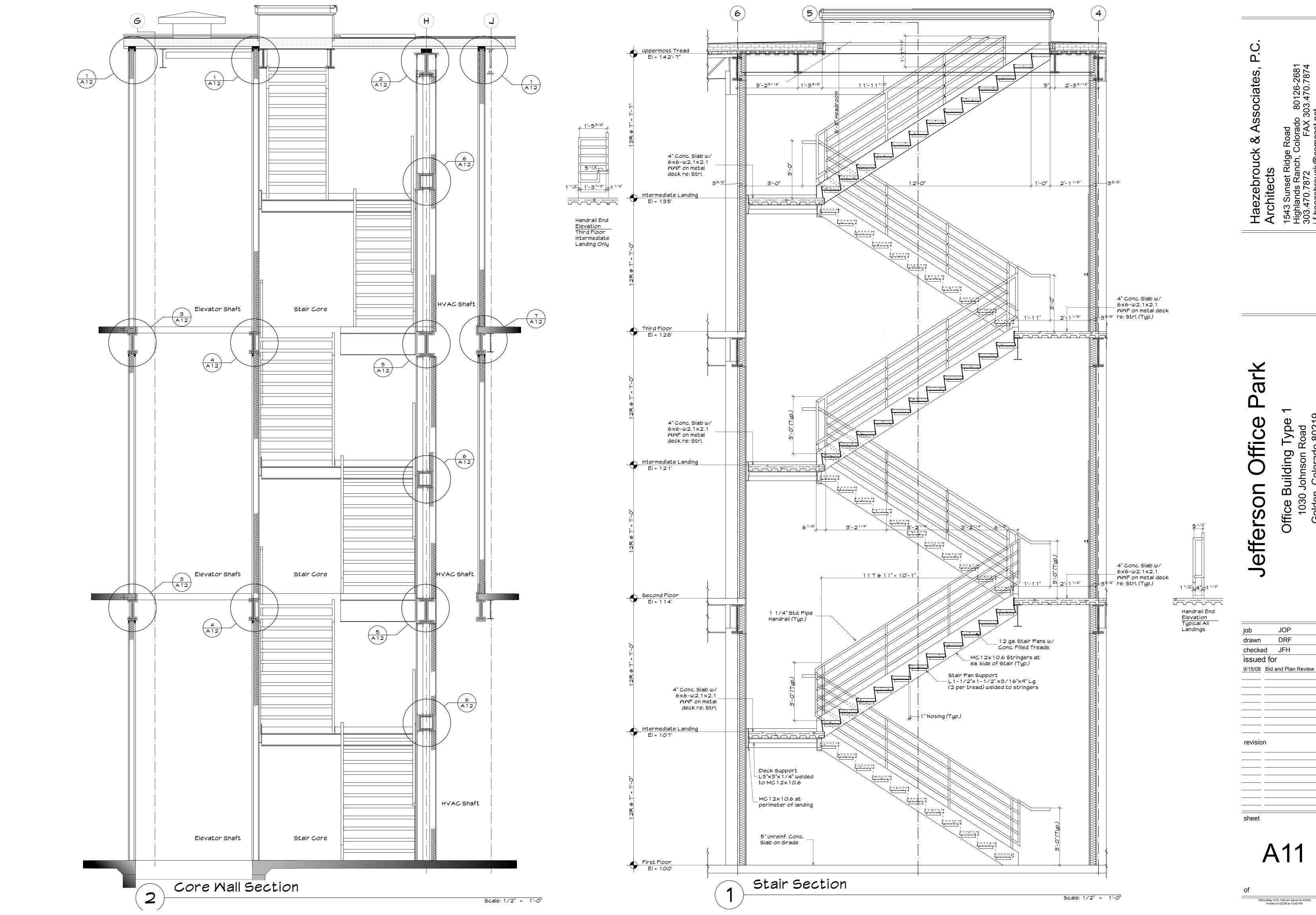
rado 80126-2681 FAX 303.470.7874

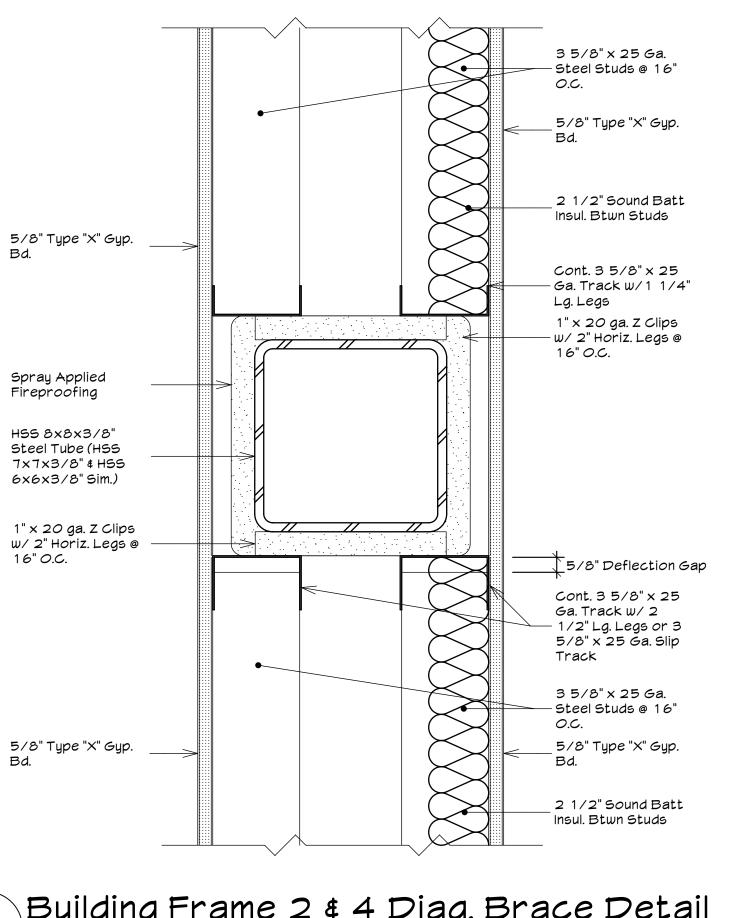
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JOP

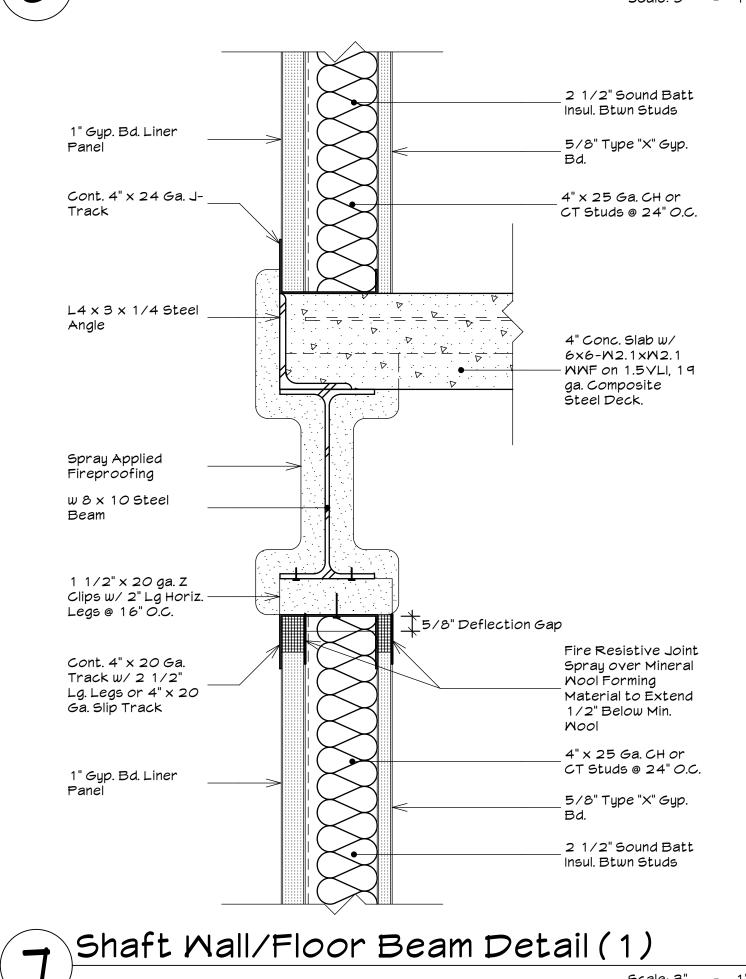
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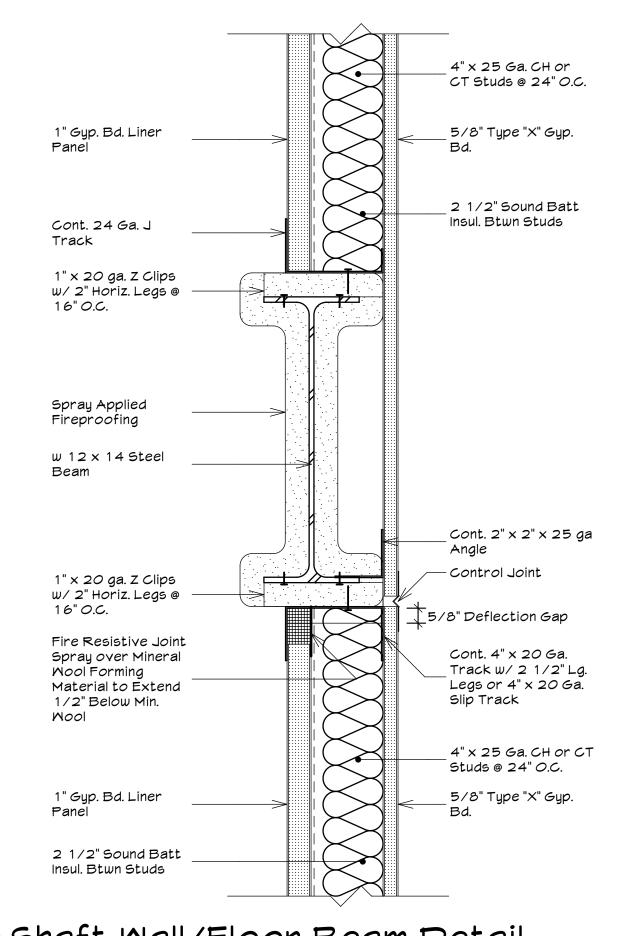
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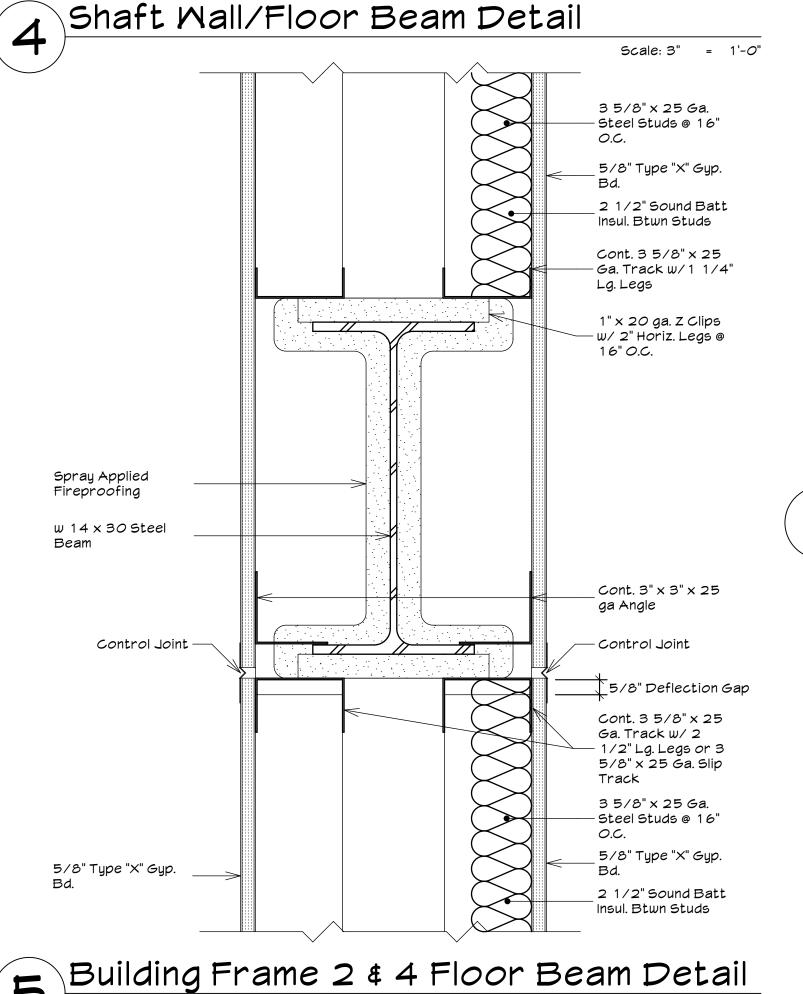




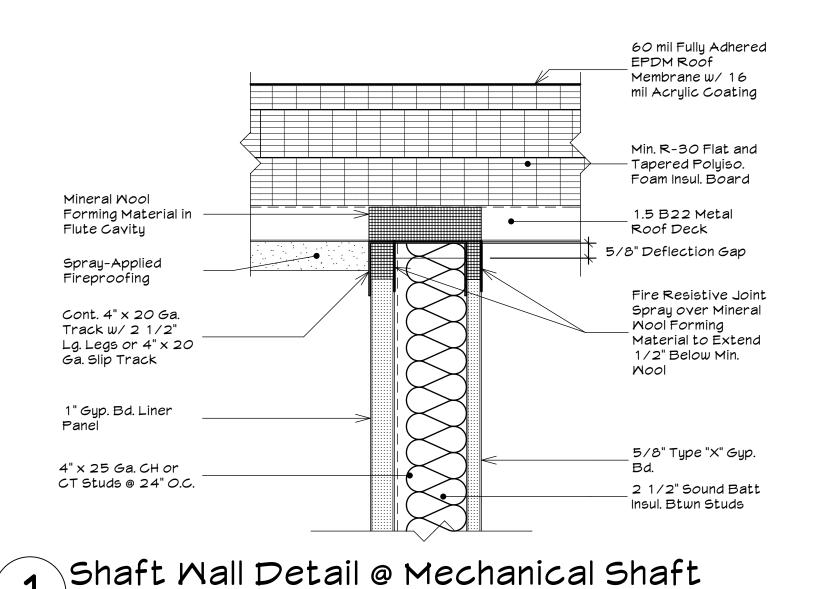
### 6 Building Frame 2 & 4 Diag. Brace Detail Scale: 3" = 1'-0"

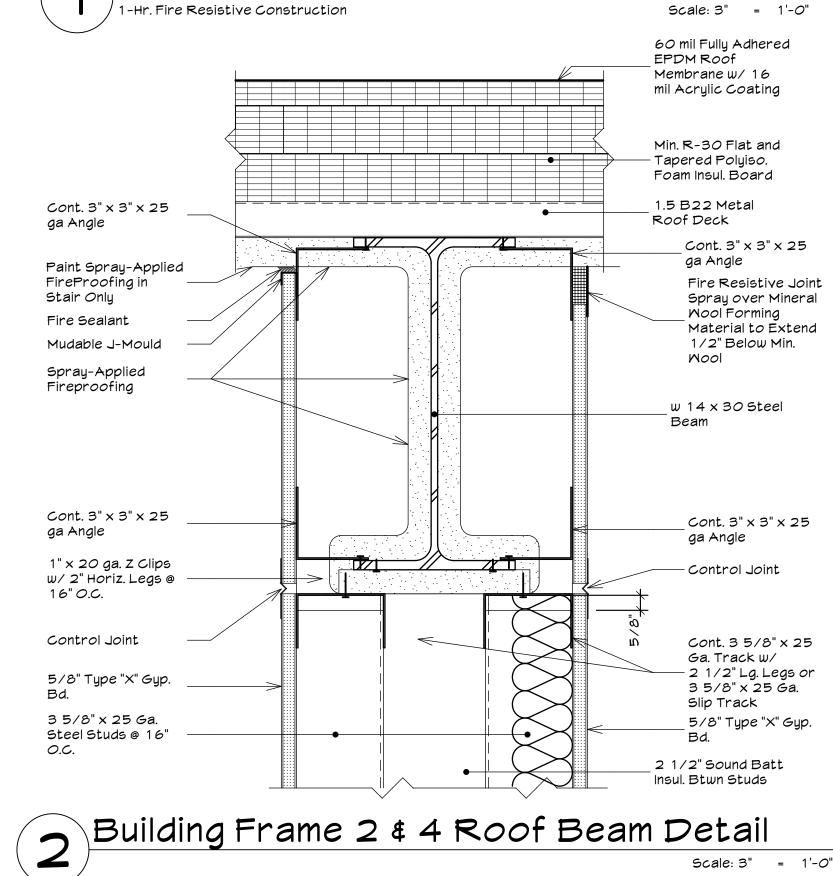


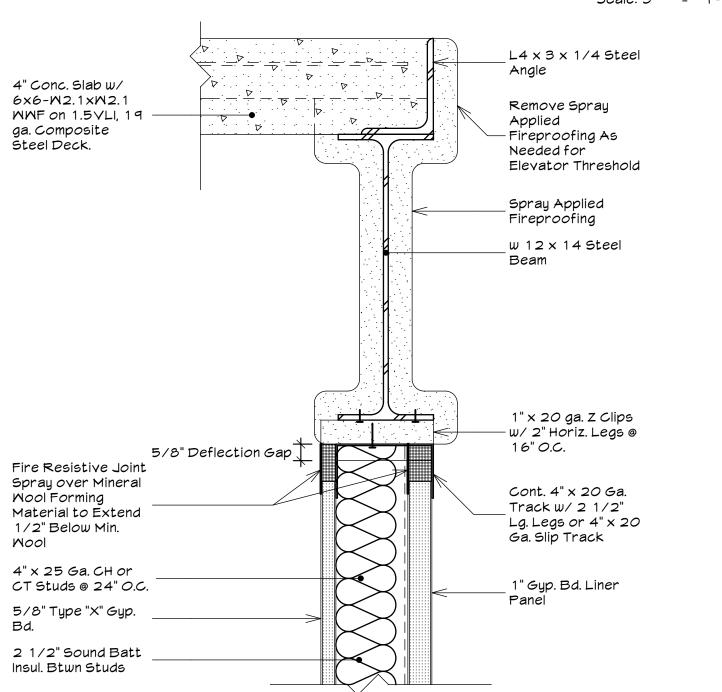




Scale: 3" = 1'-0"









JOP DRF drawn checked JFH issued for 9/15/08 Bid and Plan Review

303.470.7874

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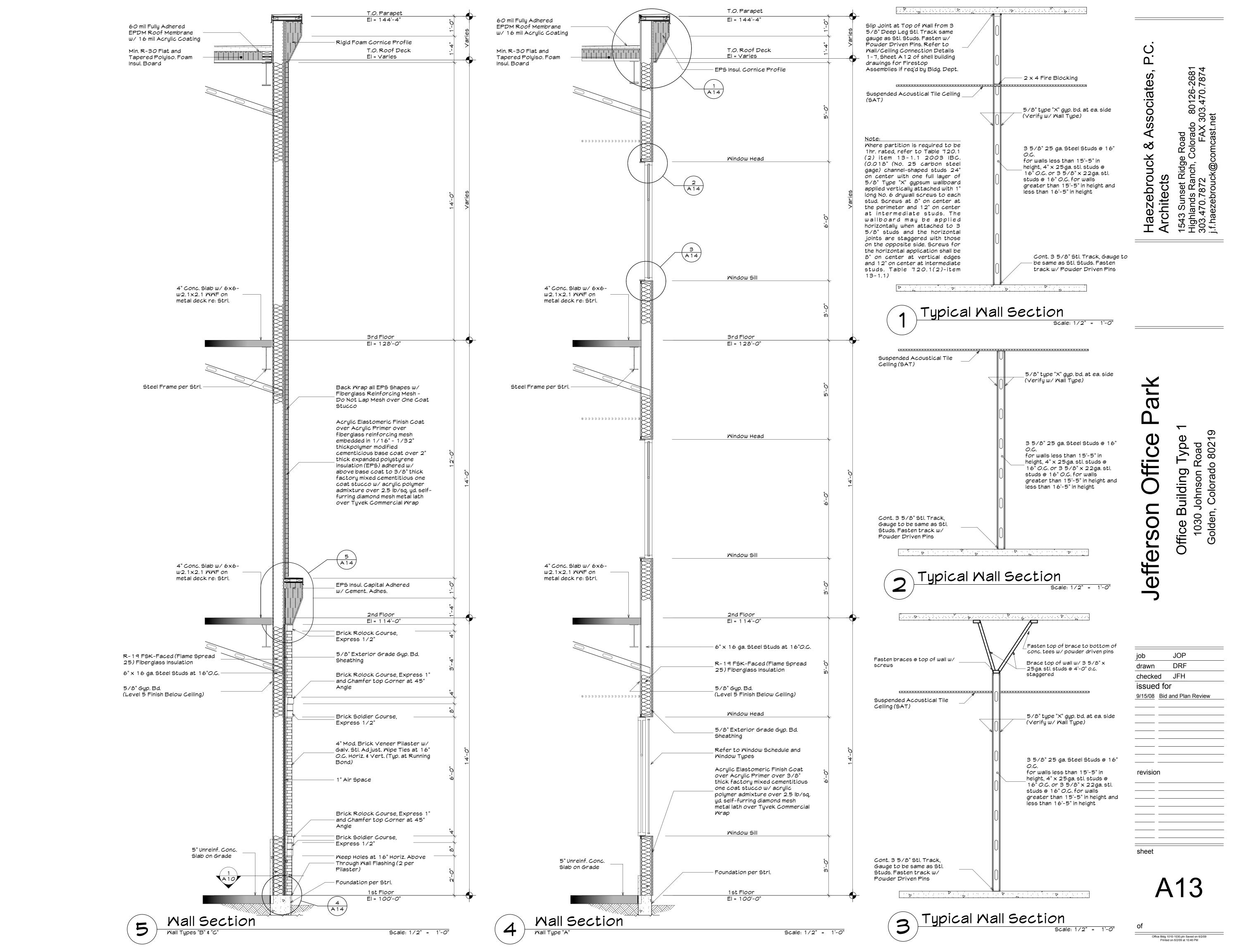
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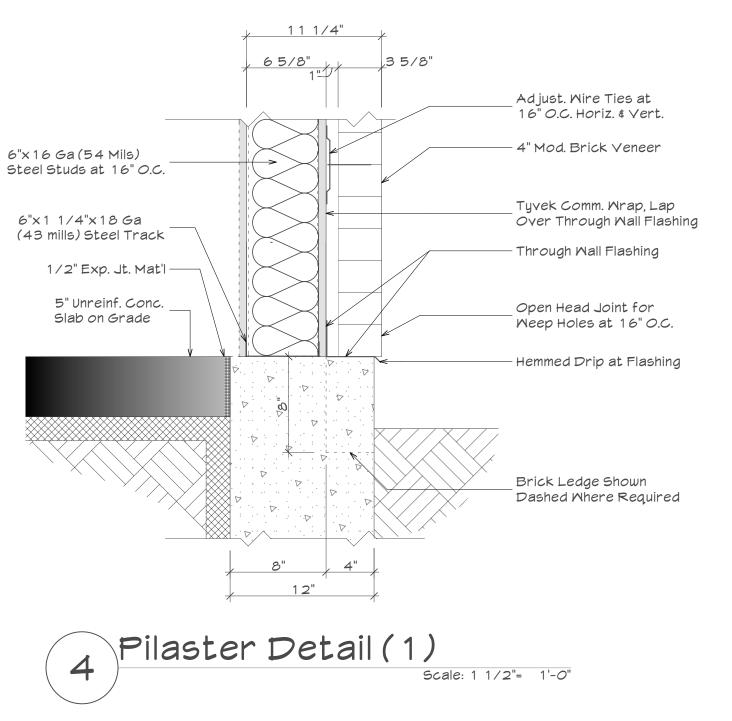
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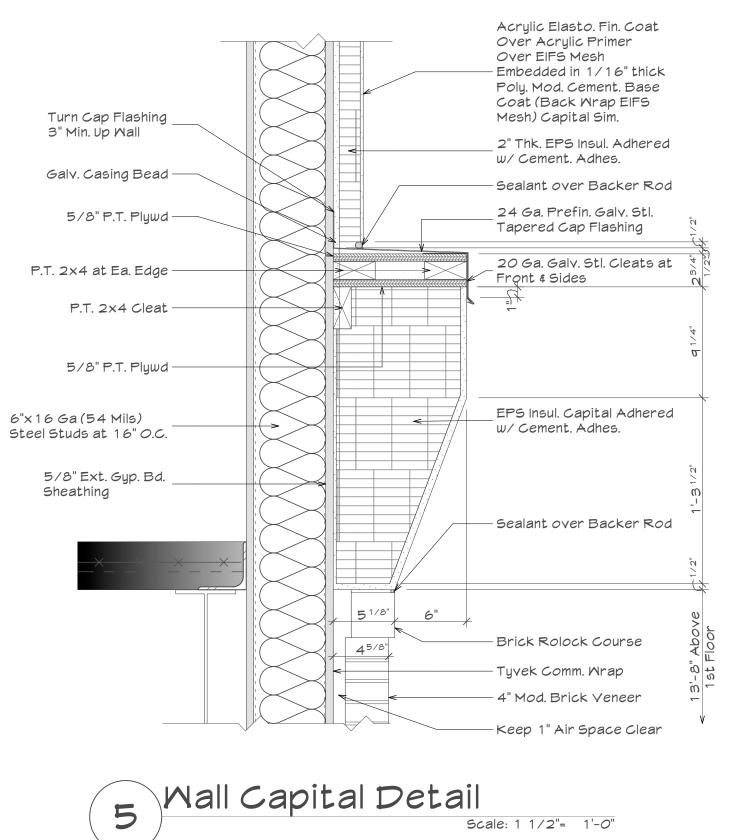
Jefferson

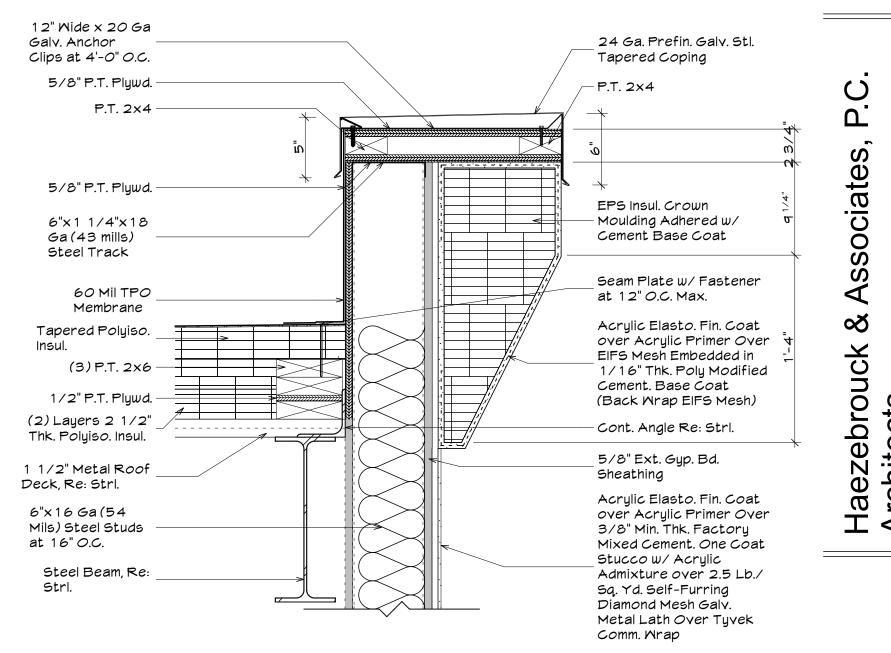
Office Buil

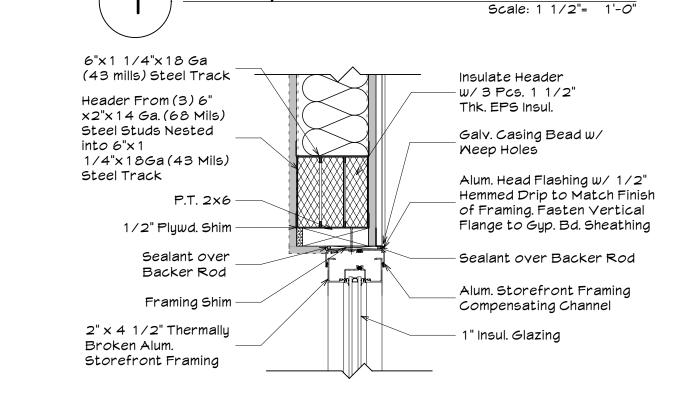
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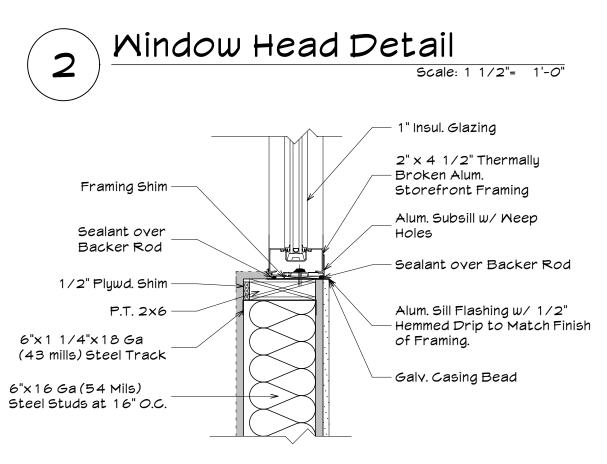








Parapet Detail



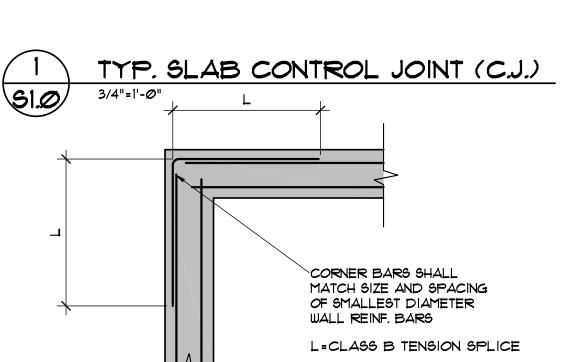


# ark Office Builo 1030 John Golden, Co Jefferson

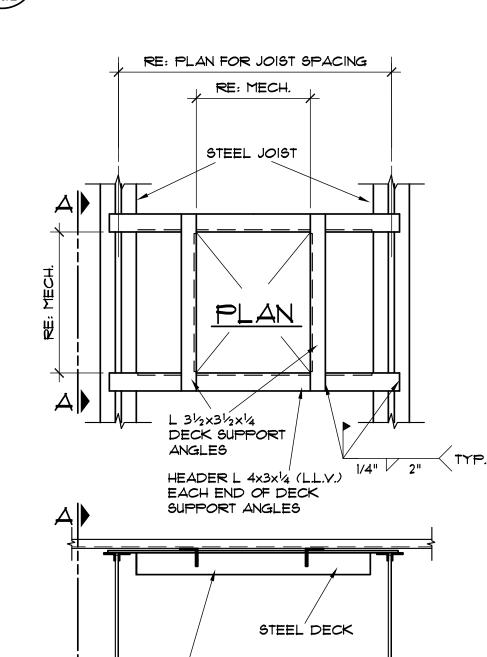
303.470.7874

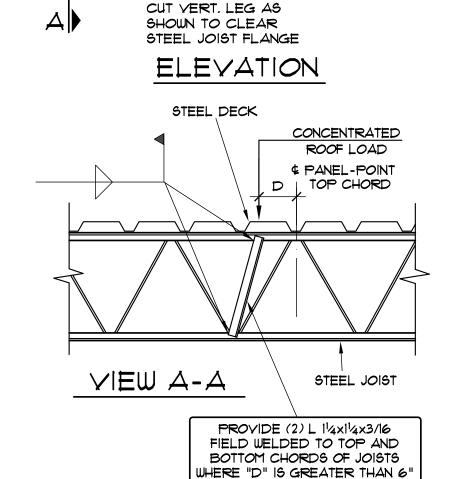
job JOP DRF drawn checked JFH issued for 9/15/08 Bid and Plan Review

sheet



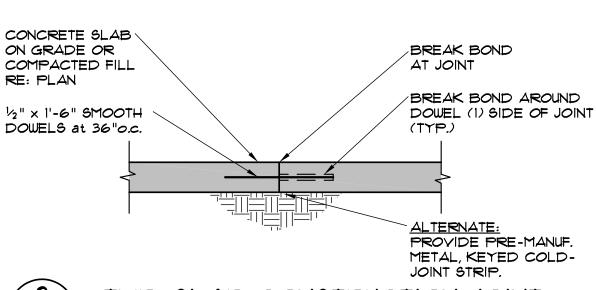


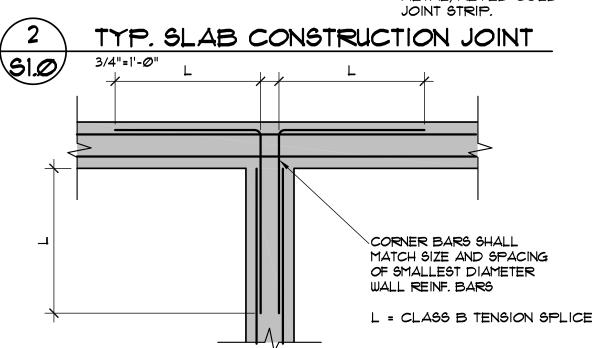




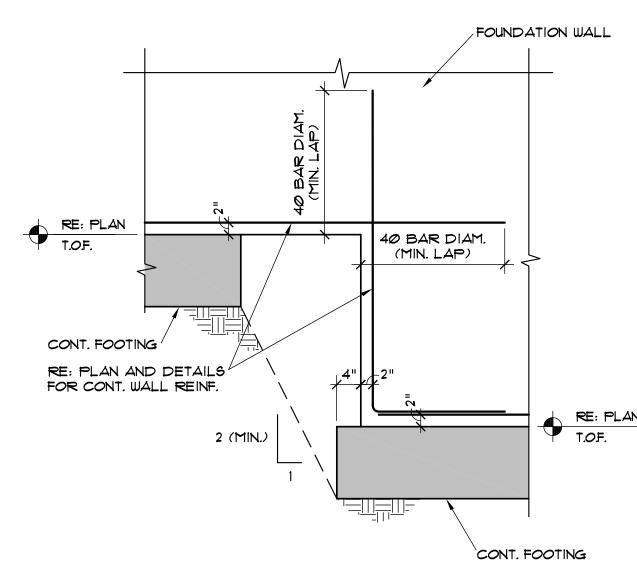
HEADER L4x3x1/4 (LL.Y.)

TYP. OPENING FRAMING DETAIL 3/4"=1'-Ø"

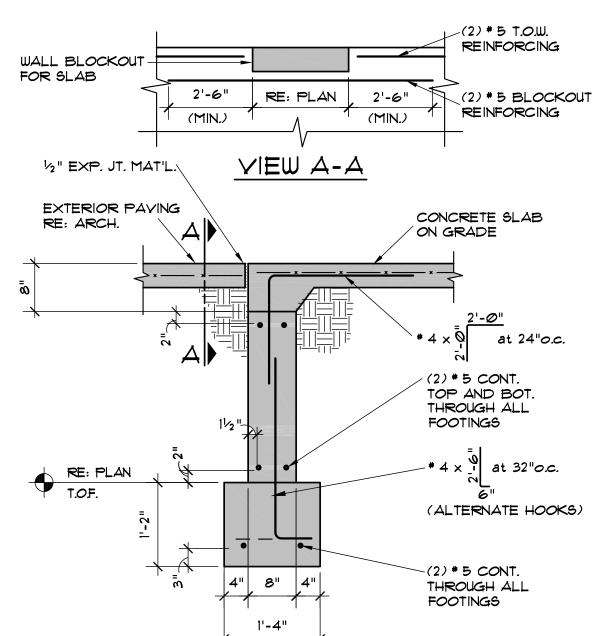












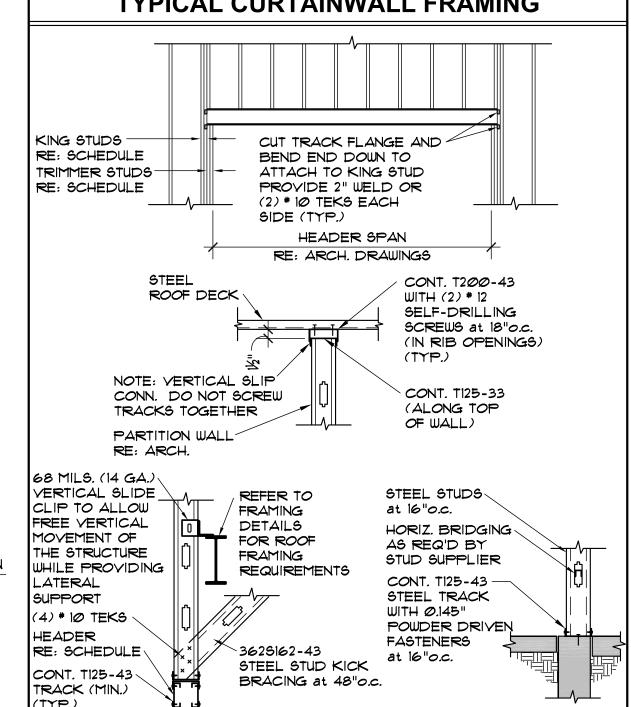
### TYP. SLAB OVER DETAIL

### **SPECIAL INSPECTIONS AND TESTING**

TYPE OF WORK OR SYSTEM	PERFORM TO I.B.C. SECTION	COMMENTS
1. PRE-FABRICATED COMPONENTS	17Ø4.2	
2. STEEL CONSTRUCTION	1704.3, Table 1704.3	
3. CONCRETE CONSTRUCTION	1704.4, Table 1704.4	
4. MASONRY CONSTRUCTION	1704.5, Table 1704.5.1 1704.5, Table 1704.5.3	LEVEL 1
5. SOILS	1704.7	

- NOTES: 1. THE PROJECT OWNER SHALL EMPLOY APPROVED INDEPENDENT SPECIAL INSPECTORS TO PROVIDE INSPECTIONS OF THE ITEMS LISTED.
  - 2. REFER TO CHAPTER IT OF THE INTERNATIONAL BUILDING CODE FOR SPECIAL INSPECTION AND TESTING REQUIREMENTS.
  - 3. ALL SPECIAL INSPECTION REPORTS MUST BE SUBMITTED TO THE PROJECT ARCHITECT AND THE ENGINEER OF RECORD FOR REVIEW.

### **COLD-FORMED STEEL FRAMING** TYPICAL CURTAINWALL FRAMING



### **HEADER SCHEDULE**

SPAN	HEADER SIZE (SSMA DESIGNATION)	TRIMMER STUDS	KING STUDS	BRACING REQUIRED
12'-0" TO 16'-0"	(3)600\$200-68 (50 ksi)	TWO	TWO	YES
16'-0" TO 17'-0"	(3) 12005200-68 (50 ksi)	TWO	THREE	YES

- NOTES: 1. HEADER SIZES ABOVE ARE TO BE USED UNLESS NOTED ON PLAN OTHERWISE. PROVIDE WEB STIFFENERS AT BEARING LOCATIONS.
  - . ALL HEADER SECTIONS ARE TO BE UNPUNCHED. 4. PROVIDE A MINIMUM I" BEARING LENGTH FOR WEB CRIPPLING. 5. USE 6005162-97 STUDS FOR KING STUDS.

### SSMA DESIGNATION

MEMBER DEPTH

(i.e. 600 x 1/100")

(i.e. 162 x 1/100") (600)(S)(162)

MATERIAL THICKNESS S-STUD OR JOIST SECTION (i.e. 54 x 1/1000") T=TRACK SECTION U=CHANNEL SECTION

### MINIMUM ALLOWABLE SECTIONS

STUD DEPTH	SSMA DESIGNATION	STUD DEPTH	SSMA DESIGNATION
3 5/8"	3626162-43	8"	8005162-43
4"	4005162-43	10"	10005162-54 (50 ksi)
6"	6005162-43	12"	12005162-54 (50 ksi)
		·	-

### **GENERAL NOTES cont.**

Field Observations:

- A. The contractor shall inform the Structural Engineer at least 48 hours prior to casting any concrete so as to allow the Structural Engineer the opportunity to review the placement of reinforcement and embedments. B. Contact Neujahr & Gorman, Inc. 1-303-377-2732.
- A. These drawings do not include necessary components for construction safety. All temporary bracing and shoring shall be designed and provided by others.
- A. All dimensions on structural drawings shall be checked against architectural drawings and any discrepancies shall be brought to the attention of the architect immediately. Refer to mechanical, electrical and architectural
- drawings for openings not shown on structural drawings. B. Shop drawings shall be prepared by the fabricator. Copying of these construction documents for use as shop drawings will not be permitted.

### **GENERAL NOTES**

1. These general notes apply to all structural drawings and supplement the project specifications which shall be referred to for additional requirements This project is designed in accordance with the 2006 International Building Code. International Building Code.

2. Live Loads Used in design: or special provisions per Section 7 of ASCE 7

Ground Snow (Pg) . . . . . . . . . 25 psf Flat Roof Snow (Pf). . . . . . . . . . 30 psf Snow Exposure Factor (Ce). . . . 1.0 Snow Load Importance Factor (Is) . 1.0

Thermal Factor (Ct). . . . . . . 1.0

B. Floors: Office . . . . . . . . . . . . . . . 50 psf+20 psf partitions Stairs & First Floor Corridors . . 100 psf Basic Wind Speed . . . . . . . . . . . . . . . . 116 mph (3—second gust)

Importance Factor (Iw) . . . . . 1.0 Internal Pressure Coeficient (GCpi). . . . . 0.18 Components & Cladding Design Wind Pressure . . 52 psf

Importance Factor (le). . . . . 1.0 Mapped Spectral Response Accelerations: Ss . . 0.20g 

> Spectral Response Coefficients: . . . . Sds . .0.212g Basic Seismic-Force-Resisting System (s):

a.)Bearing Wall System Type "C" Design Base Shear (v) . . . . . . . . 206K Seismic Response Coefficient (Cs) . . . 0.05 Response Modification Factor (R). . . 4.5

Concrete:

A. Concrete has been designed and shall be constructed in accordance with the American Concrete Institute "Building Code Requirements for Structural Concrete (A.C.I. 318—02) and (A.C.I. 301—99) "Specifications for Structural Concrete." Section 1.3 "Inspection" of A.C.I. 318-02 is deleted in its entirety, see "Field Observations" paragraph of these general notes. All concrete shall be of stone aggregate, unless noted otherwise. Minimum 28—day compressive strength shall be 4000 psi. (1) Slab on grade . . . . . . . . . . . 4000 psi

Raised Slabs on form deck . 4000 psi (3) All other concrete . . . . 4000 psi

See specifications for additional durability requirements. B. Reinforcing is to be new billet steel A.S.T.M. A615, grade 60, bars to be bent or welded in the field shall be grade 40. Provide corner bars to match all horizontal reinforcing in cast—in—place walls. Provide not less than 2-#5 around all sides of all openings in concrete and extend 2'-0" past edges of openings. No splices of reinforcement are permitted except as detailed or authorized by Structural Engineer. Where permitted, use contact lap splices, 40 bar diameters minimum. Welded wire fabric shall be in accordance with A.S.T.M. A185. Lap (1) full mesh-minimum at splices. No welding of reinforcement permitted unless detailed.

C. Placing of Reinforcement: Provide chairs, bolsters, additional reinforcement, and accessories necessary to support reinforcement at position shown on drawings. Support of reinforcement on form ties, wood, brick, or other unacceptable material, will not be permitted. Form ties are to be used for bar supports only when the clear dimensions shown on the details can be maintained.

D. The following minimum concrete cover over reinforcing shall be provided unless detailed otherwise:

(1) Concrete cast against and permanently exposed (2) Concrete exposed to earth or weather

a. #6 bars and larger . . . . . . . 2 in. #5 bars and smaller  $\dots 1-1/2$  in. (3) Concrete not exposed to earth or weather. .3/4 in.

4. Steel: A. Structural steel, including cast in angles, plates or other sections shall be detailed and erected in accordance with the American Institute of Steel Construction (A.I.S.C.) Specifications and Code of Standard Practice. ASTM designation and minimum yield

strength shall be as follows: 

Connections: (1) Use standard framed beam connections meeting requirements of "Manual of Steel Construction" Ninth Edition. Use 3/4" diameter minimum A325N bolts (or welded equivalent). (2) Minimum welds per A.I.S.C. Specification, not less than 3/16" fillet, continuous, using E70XX electrodes, unless noted otherwise. Welding of rebar anchors to angles or plates shall be done to

develop 1.5 times the yield strength of the reinforcing bar. C. Headed Stud Connectors: (1) Conform to AWS D1.1. Headed connectors shall be automatically end welded. All composite beam studs are to be field welded. See specifications for testing requirements.

5. Open Web Steel Joists and Joist Girders: A. Design, fabrication and erection shall be in conformance with the specifications of the Steel Joist Institute.

6. Steel Deck: A. Steel deck shall be erected in accordance with manufacturer's suggested specifications.

B. Steel roof deck shall be 1 1/2", Type B, wide rib. Provide Vulcraft 1.5B or approved equivalent. C. Deck panels are to be 36" wide and continuous over a minimum

D. Weld deck to all supports as indicated in the metal deck schedule. Deck must be capable of withstading diaphragm shears listed in the schedule. Submit test data from deck manufacturer for deck

selected to substantiate that deck will meet or exceed required diaphragm shear and stiffness requirements. E. Form deck with nested side laps allowing screwed side seam

F. Provide  $3 \frac{1}{2} \times 3 \frac{1}{2} \times \frac{1}{4}$  angle framing around openings larger than 6".

G. Deck for concrete form shall be Vulcraft 1.5 VLI galvanized composite deck or approved equivalent. Refer to manufacturers recommendations for support attachment.

7. Steel Studs and Joists: A. All products shall be manufactured according to the Steel Stud Manufacturers Association (S.S.M.A.) specifications, or approved

B. Refer to the schedule on the plans for minimum section properties.

Foundations:

A. The structure shall be founded on spread footings placed on undisturbed natural soils or compacted fill with a maximum allowable

bearing pressure of 2000 psf. B. Provide 3" void above or below all non-bearing partitions on slabs

C. Refer to soil report #07-3736, dated 09-24-07, prepared by GROUND Engineering Consultants, Inc., Englewood, Colorado for other pertinent soils information. The contractor shall be fully versed with all aspects of the soil report prior to the start of construction.

42 p.c.f.

442 p.c.f.

D. Retaining walls were designed using the following values: (1) Coef. of fricti (2) Lateral earth pressu (3) Passive pressu

**SYMBOLS** DETAIL, SECTION, OR ELEVATION REFERENCE

 $\Box$ 

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126-268<sup>2</sup>.470.787<sup>2</sup>

DETAIL, SECTION, OR ELEVATION REFERENCE

DETAIL NUMBER DETAIL LOCATION (SHEET NUMBER)

\*XX'-XX"

T.O. SLAB

DETAIL NUMBER \_

DETAIL LOCATION

(SHEET NUMBER)

DETAIL NUMBER

DETAIL LOCATION

(SHEET NUMBER)

PLAN DETAIL REFERENCE

T.O.W. TOP OF WALL ELEVATION | ××'-××" T.O.F. | ××'-××"

TOP OF FOOTING ELEVATION

TOP OF SLAB ELEVATION

JOIST BEARING ELEVATION

T.O.C. TOP OF CONCRETE ELEVATION | ××'-××" T.O. LEDGE TOP OF BRICK / STONE LEDGE ELEVATION **XX'-XX"** 

TOP OF STEEL ELEVATION  $(\times \times '-\times \times ")$ TOP OF PAD FOOTING ELEVATION (××'-××")

XX'-XX"
T.O. DECK TOP OF DECKING ELEVATION

XX'-XX"

JST. BEARING PAD FOOTING MARK

BASE PLATE MARK

FRAMING PLAN KEY NOTE MARK

ROOF / FLOOR DIAPHRAGM MARK

COLUMN MARK

REVISION NUMBER MARK

LOCATION OF STEP IN TOP OF FDN. WALL T.O.W. LOCATION OF STEP IN BOTTOM OF FND. WALL B.O.W. LOCATION OF STEP IN TOP OF FOOTING

### **ABBREVIATIONS**

(TYP.) TYPICAL CONDITION CMU SIMILAR CONDITION UNLESS NOTED OTHERWISE DIA. OPPOSITE HAND CONDITION F.D. CONTROL JOINT STD. GAGE ON CENTER

HEADED ANCHOR STUD

GA.

O.C.

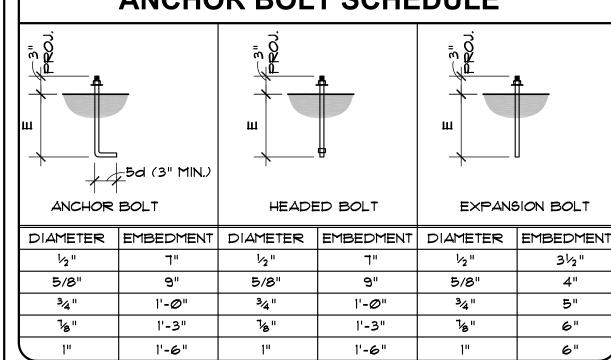
H.A.S.

P.D.F.

A.B. ANCHOR BOLT CONCRETE MASONRY UNIT DIAMETER FLOOR DRAIN EXT. EXTERIOR

STANDARD WELDED WIRE FABRIC w.w.f. CENTERLINE Œ POWDER DRIVEN FASTNER

### **ANCHOR BOLT SCHEDULE**



NEUJAHR AND GORMAN, INC CONSULTING STRUCTURAL ENGINEERS 88 STEELE STREET SUITE 200 DENVER, COLORADO (303) 377-2732 RROJ. NO: 207131

Office B 1030 . Golden, S (1) # **(1)** 207131 **JAC** 

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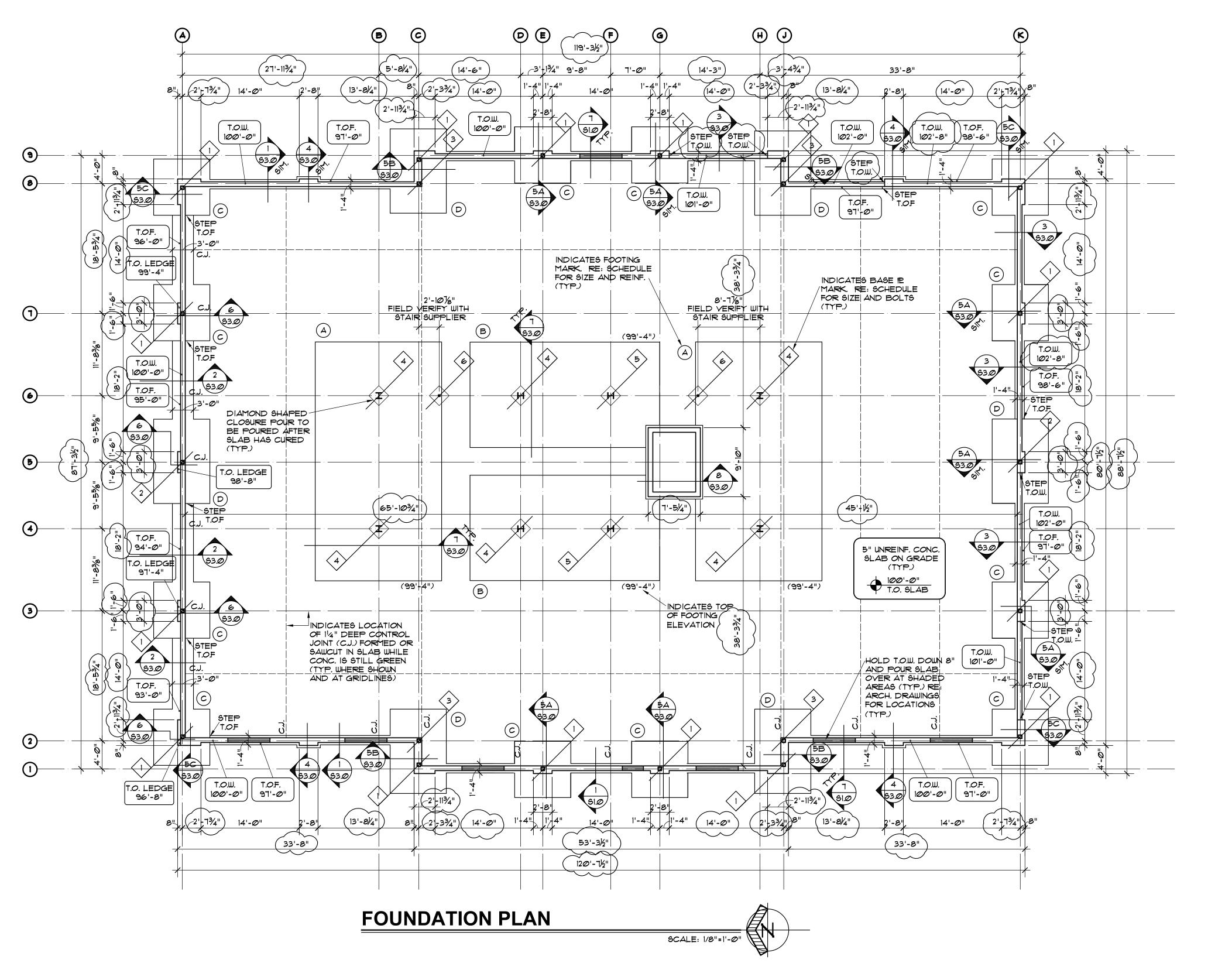
Office Building Type 1 1030 Johnson Road Golden, Colorado 80219

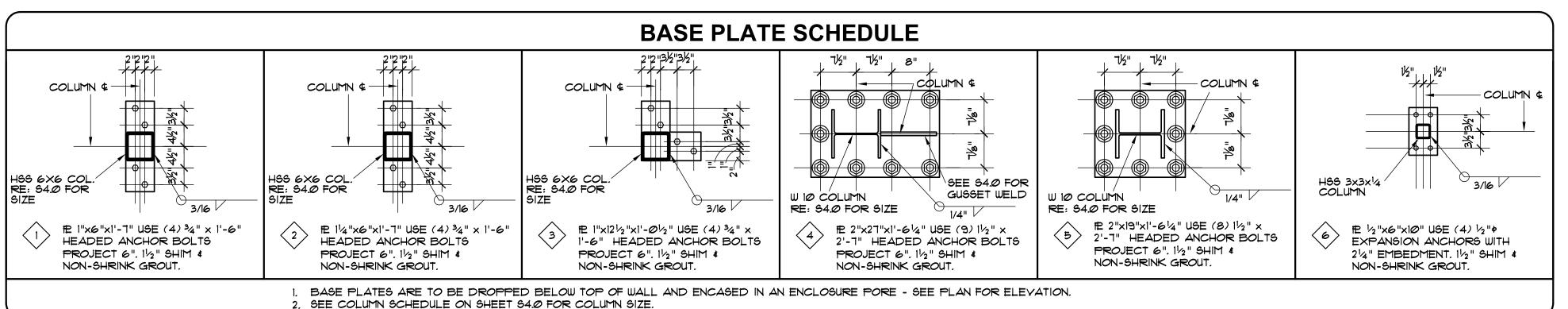
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revision 5/21/09 <u>A Dimension Revisions</u>

sheet







PAD FOOTING SCHEDULE					
MARK	FOOTING SIZE	REINFORCING			
A	18'-@"x34'-@"x2'-4"	* 8 at 11"o.c. EACH WAY TOP AND BOTTOM			
В	15'-Ø"x27'-Ø"x2'-4"	* T at 12"o.c. EACH WAY TOP AND BOTTOM			
©	8'-Ø"x8'-Ø"x1'-2"	# 5 at 12"o.c. EACH WAY BOTTOM ONLY			
(D)	8'-Ø"x12'-6"x1'-2"	(8) * 7 EACH WAY BOTTOM ONLY			
NOTES: 1. PAD FOOTINGS ARE TO BE CENTERED BELOW COLUMN CENTERLINES (U.N.O.).  2. PROVIDE 3" CLEAR DISTANCE FROM BOTTOM OF FOOTING TO REINFORCING.					

3. REFER TO PLAN FOR TOP OF FOOTING ELEVATIONS.

BEAM FACTORED END END REACTION (KIPS)

C=3/4"

NOTES:

1. FINISH FLOOR ELEVATION = 114'-0"

2. BEAMS INDICATED THUS:

AISC SHAPE No. OF EVENLY CAMBER

DESIGNATION SPACED SHEAR STUDS

AND TYP. BEAM-TO-COLUMN CONNECTIONS

3. BOTH ENDS OF THE BEAM WILL HAVE THE SAME REACTION UNLESS NOTED OTHERWISE

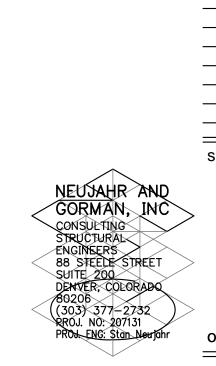
4. MINIMUM DESIGN LOAD FOR ANY CONNECTION IS IOK IN SHEAR. 5. REFER TO SHEET S3.I FOR TYP. BEAM-TO-BEAM CONNECTIONS

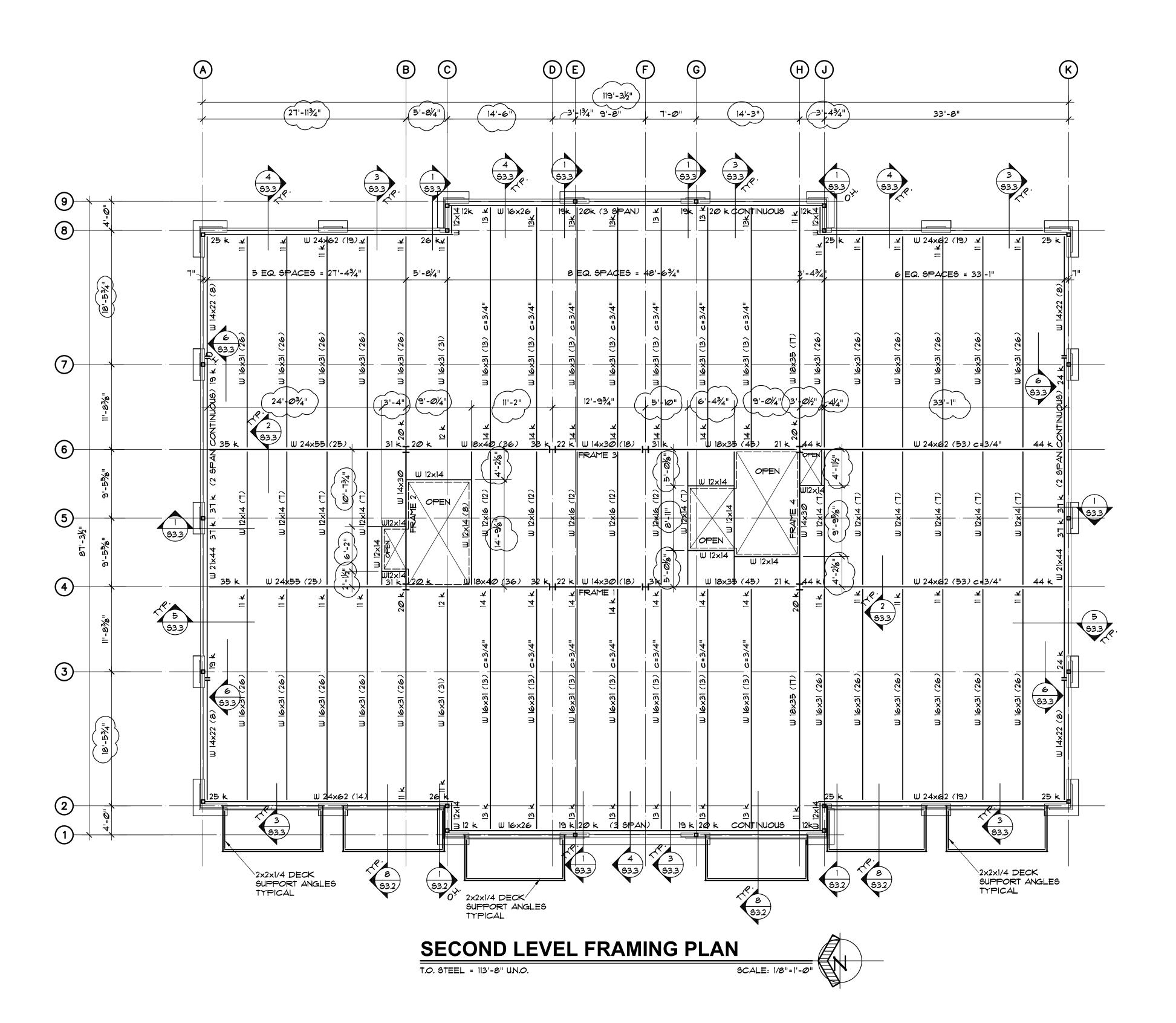
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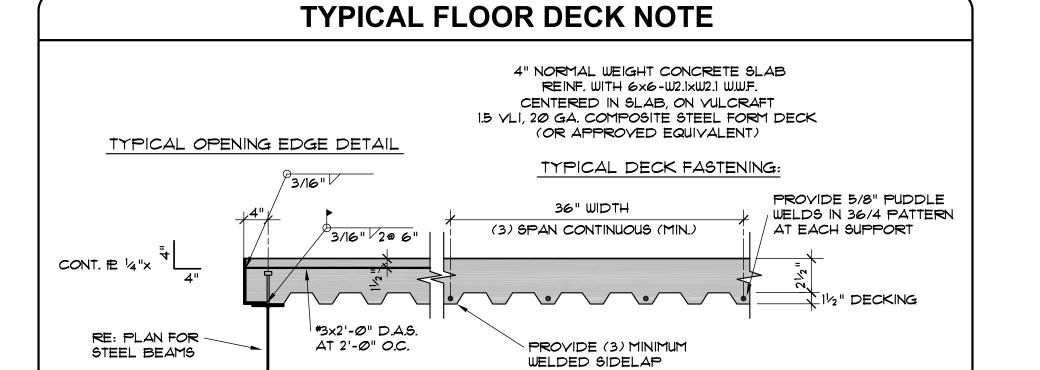
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revision 5/22/09 <u>A Dimension Revisions</u>

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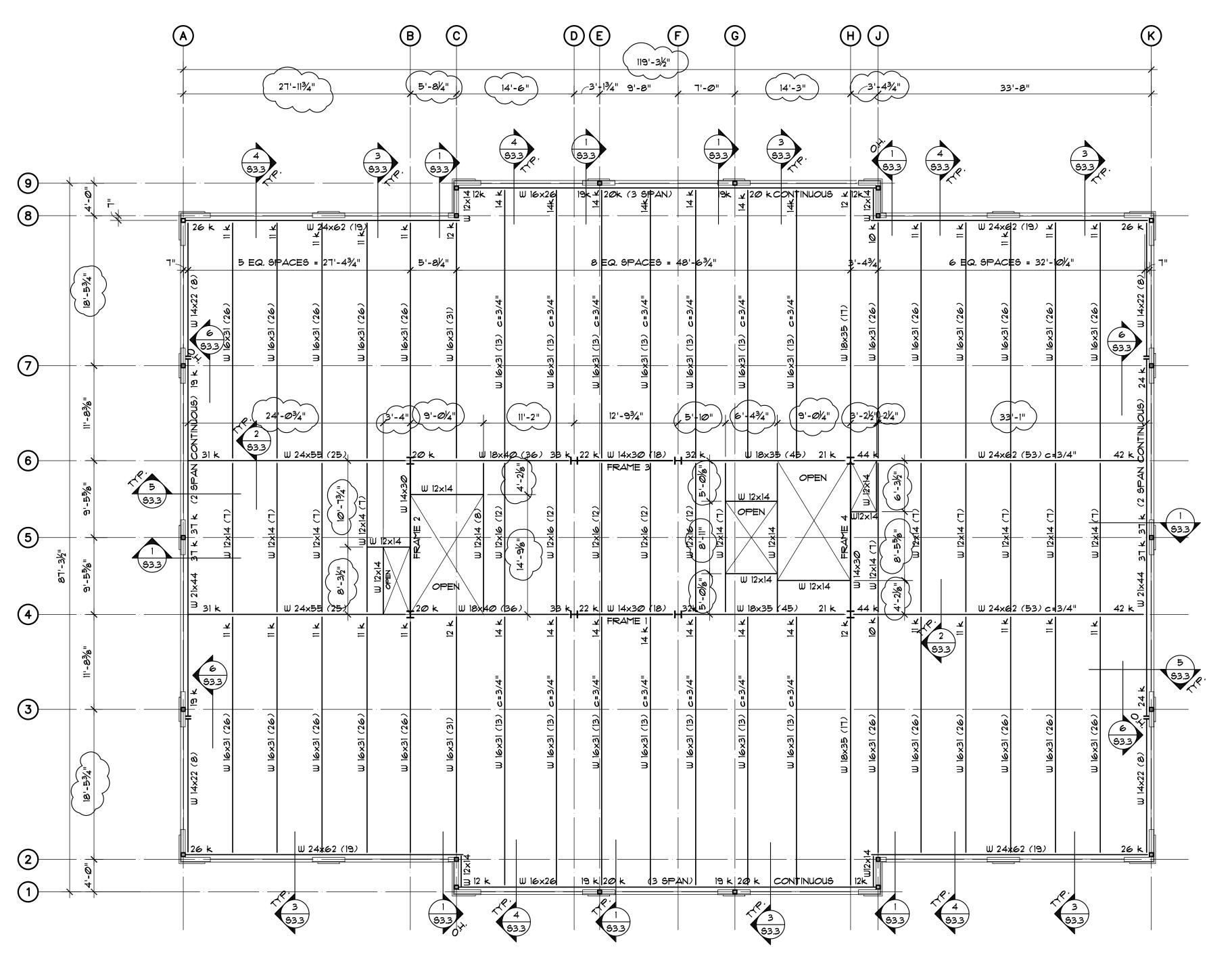


FASTENERS PER DECK SPAN

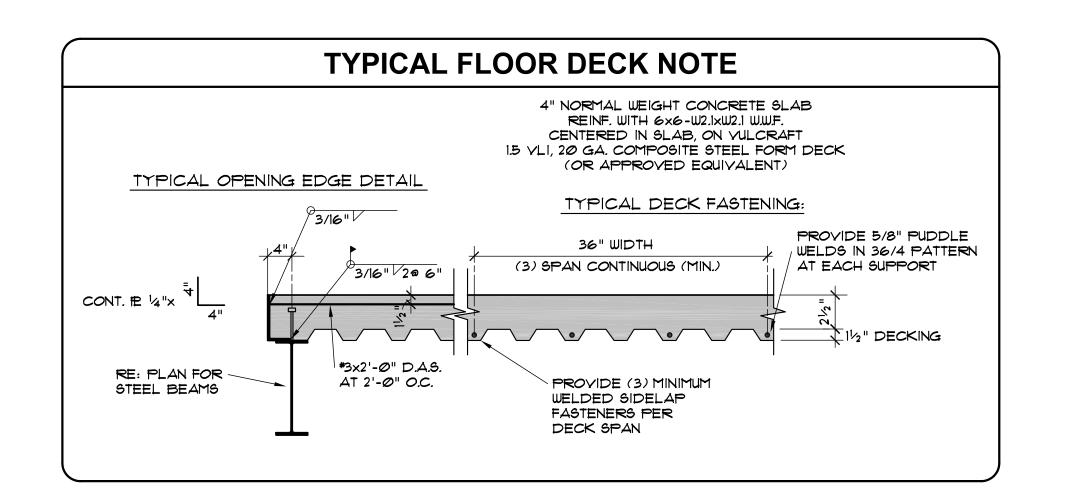
5/08/09 Construction

revision





### THIRD LEVEL FRAMING PLAN T.O. STEEL = 127'-8" U.N.O. SCALE: 1/8"=1'-0"



1. FINISH FLOOR ELEVATION = 128'-0"

2. BEAMS INDICATED THUS:
AISC SHAPE No. OF EVENLY
DESIGNATION SPACED SHEAR STUDS W 12×14

BEAM FACTORED END END REACTION (KIPS) C=3/4" 21K

3. BOTH ENDS OF THE BEAM WILL HAVE THE SAME REACTION UNLESS NOTED OTHERWISE

4. MINIMUM DESIGN LOAD FOR ANY CONNECTION IS IOK IN SHEAR.
5. REFER TO SHEET S3.1 FOR TYP. BEAM-TO-BEAM CONNECTIONS
AND TYP. BEAM-TO-COLUMN CONNECTIONS

Office Building T 1030 Johnson Ro Golden, Colorado

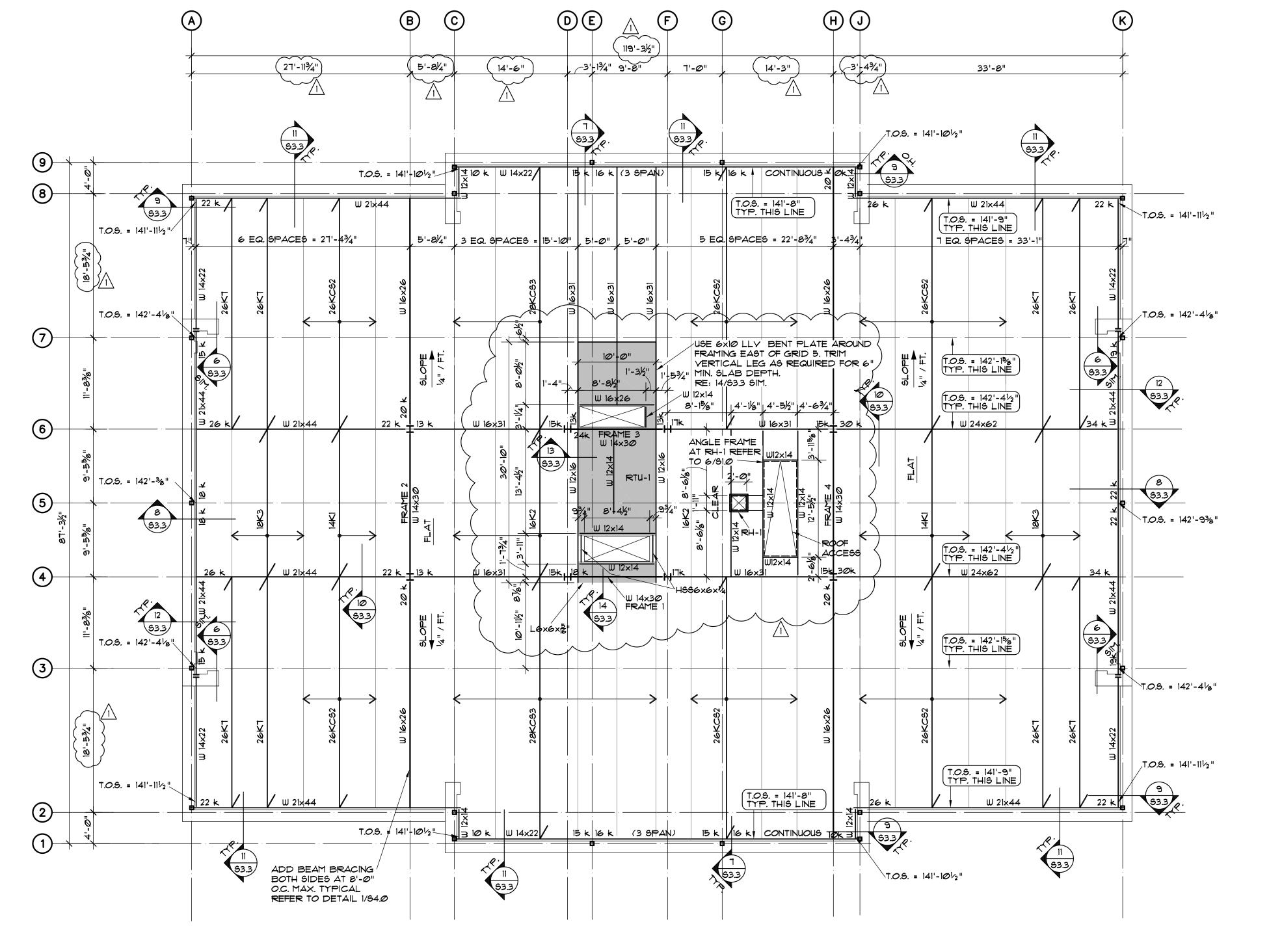
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6/02/09 Revision /

revision

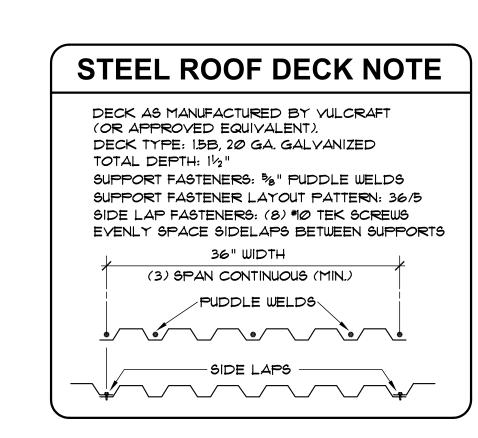
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**ROOF FRAMING PLAN** 

T.O. STEEL = 141'-8" AT LOW POINT (SEE PLAN)



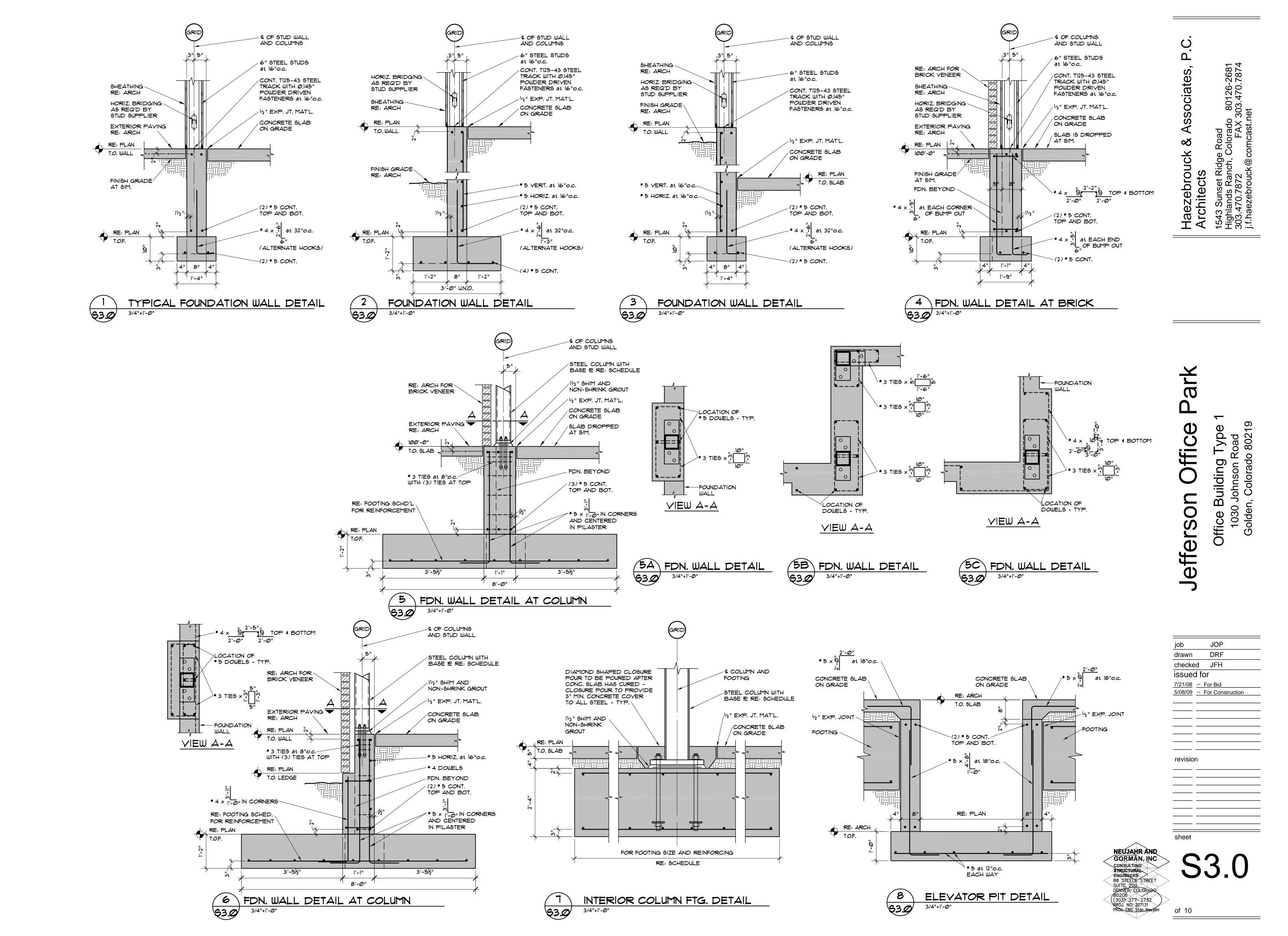
1. FINISH FLOOR ELEVATION = VARIES

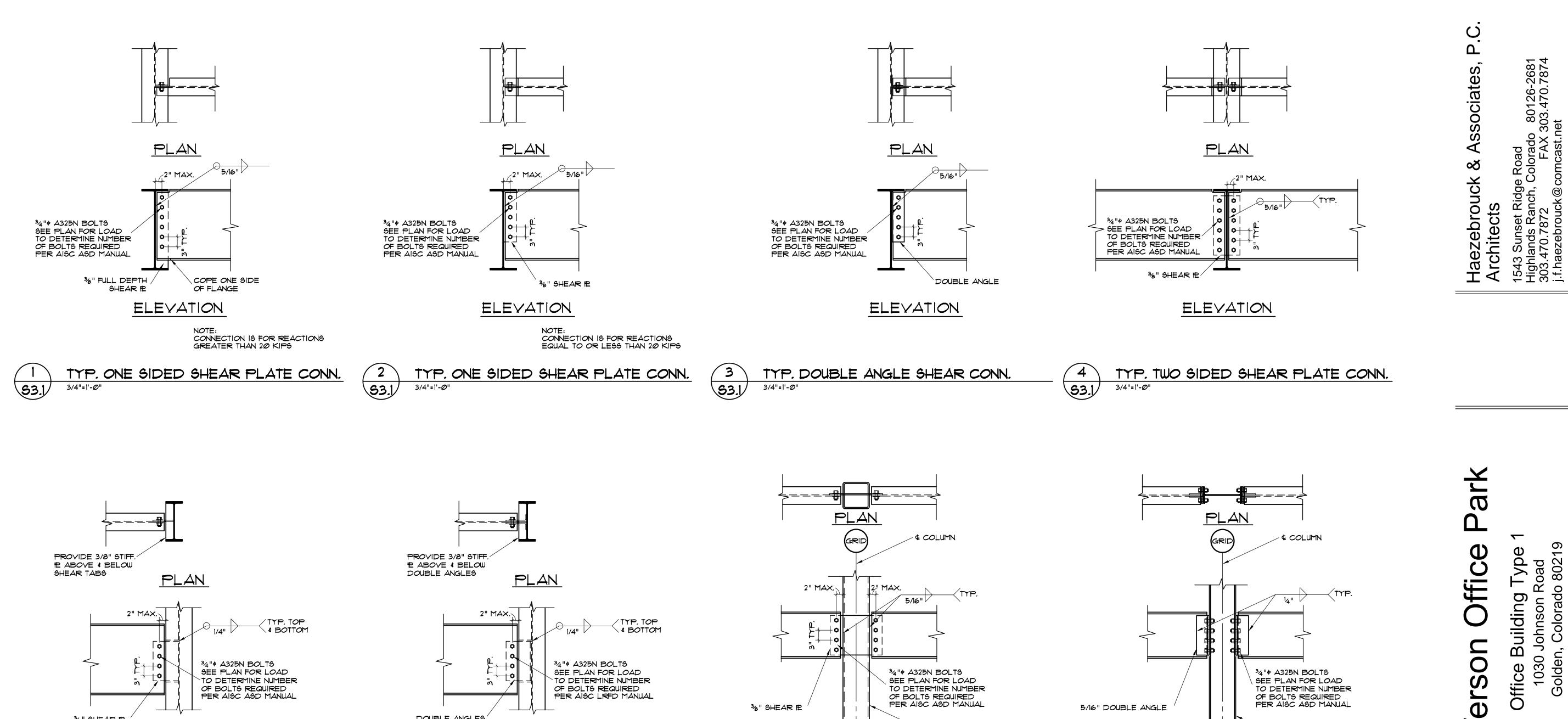
SHEAR

UNLESS NOTED OTHERWISE 4. MINIMUM DESIGN LOAD FOR ANY BEAM CONNECTION IS IOK IN

5. REFER TO SHEET \$3.1 FOR TYP. BEAM-TO-BEAM CONNECTIONS AND TYP. BEAM-TO-COLUMN CONNECTIONS

SCALE: 1/8"=1'-0"





%" SHEAR ₽

3/4"=1'-Ø"

**S3.**1/

W COLUMN OR HSS COLUMN

TYP. BEAM TO COL. SHEAR PLATE CONN.

DOUBLE ANGLES

ELEVATION

6 TYP. BEAM TO COL. DOUBLE ANGLE CONN. 7

\$3.1 3/4"=1"-0"

\$3.1

%" SHEAR ₱

ELEVATION

5 TYP. BEAM TO COL. SHEAR PLATE CONN.

5/16" DOUBLE ANGLE

3/4"=1'-Ø"

**S3.**]

L 5x31/2x1'-4" WITH (5) 34" BOLTS

BOTH SIDES OF TUBE COLUMN

RE: PLAN FOR STEEL TUBE COL.

(3)<sup>3</sup>4-A325 THRU-BOLTS - CONN. ANGLES TO HAVE 15/16"X1½" HORIZ. SLOTS AT TOP \$

BOT. BOLTS AND 15/16"

HOLE AT MIDDLE BOLT

T.O.S.

RE: PLANS

ELEVATION

8 TYP. BEAM TO COL. DOUBLE ANGLE CONN.

RE: PLAN FOR STEEL BEAM

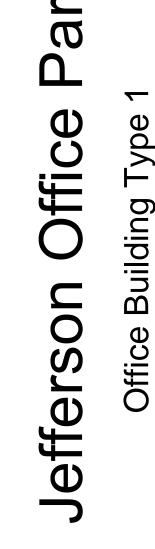
1/2" END PLATE WELDED TO

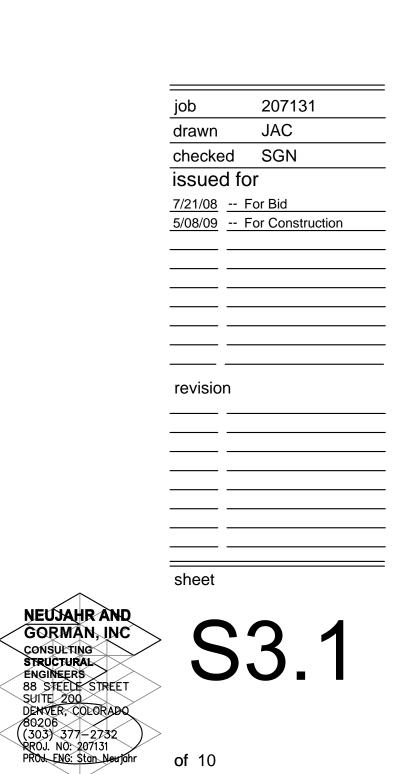
W 16×31

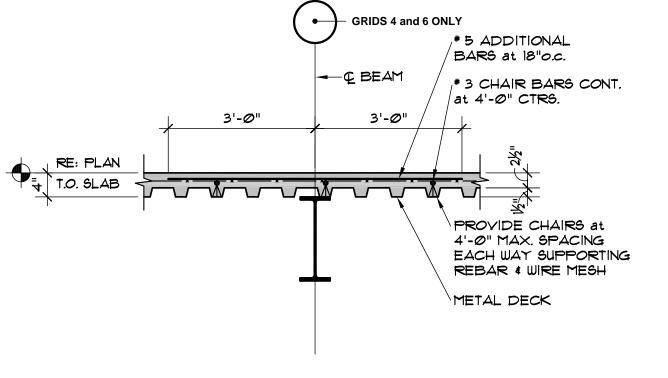
ELEVATION

9 TYP. BEAM TO COL. DOUBLE ANGLE CONN.

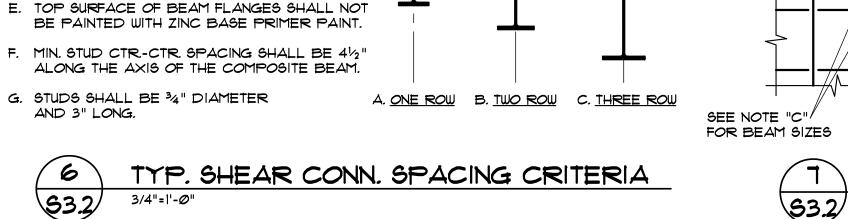
- W COLUMN











C. PROVIDE MINIMUM 1" SPACING FROM EDGE

D. SUBMIT SHOP DRAWINGS SHOWING PLACEMENT

OF SHEAR CONNECTORS FOR ENGINEERS APPROVAL

OF FLANGE TO CENTERLINE OF STUD.

3/4"=1'-Ø"



1'-0" MAX. FOR

REQUIRED

NO ADDED BEAMS

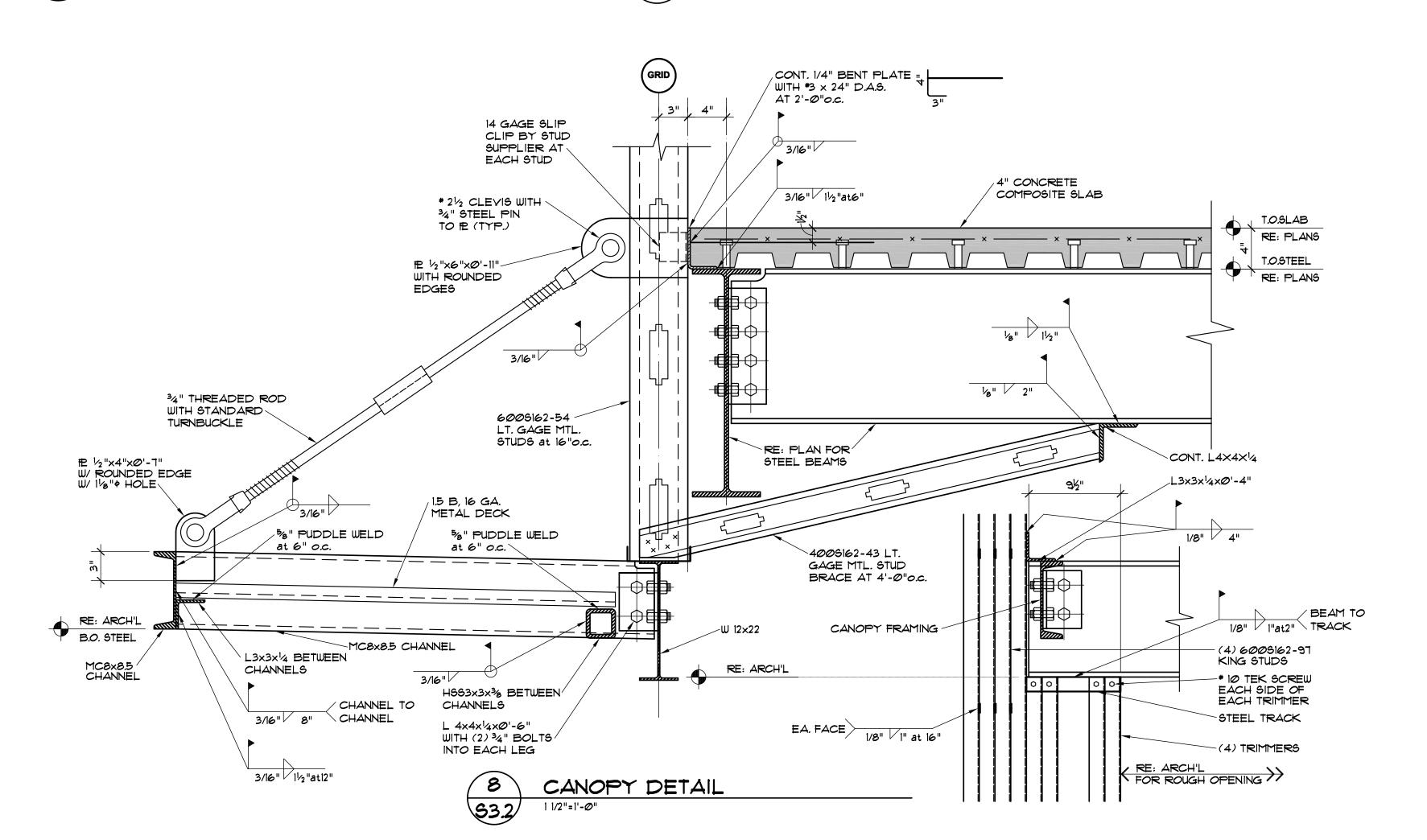
OPENING-

SECTION A

V2-3/4" A325 BOLTS

WITH SINGLE ANGLE

OPENING FRAMING BEAM BEYOND



SEE NOTE "C"

FOR BEAM SIZES

# ark Office Jefferson

job

drawn

Ilding

Office Buil 1030 John Golden, Co

Associates,

laezebrouck a

80126-2681 303.470.787<sup>2</sup>

¢ BEAM

/ # 4 x 4'-0" ADDITIONAL

,\* 3 CHAIR BARS CONT.

PROVIDE CHAIRS at

4'-0" MAX. SPACING

REBAR & WIRE MESH

METAL DECK

EACH WAY SUPPORTING

BARS at 18"o.c.

/ at 4'-0" CTRS.

NOTE: THIS DETAIL APPLIES WHEN

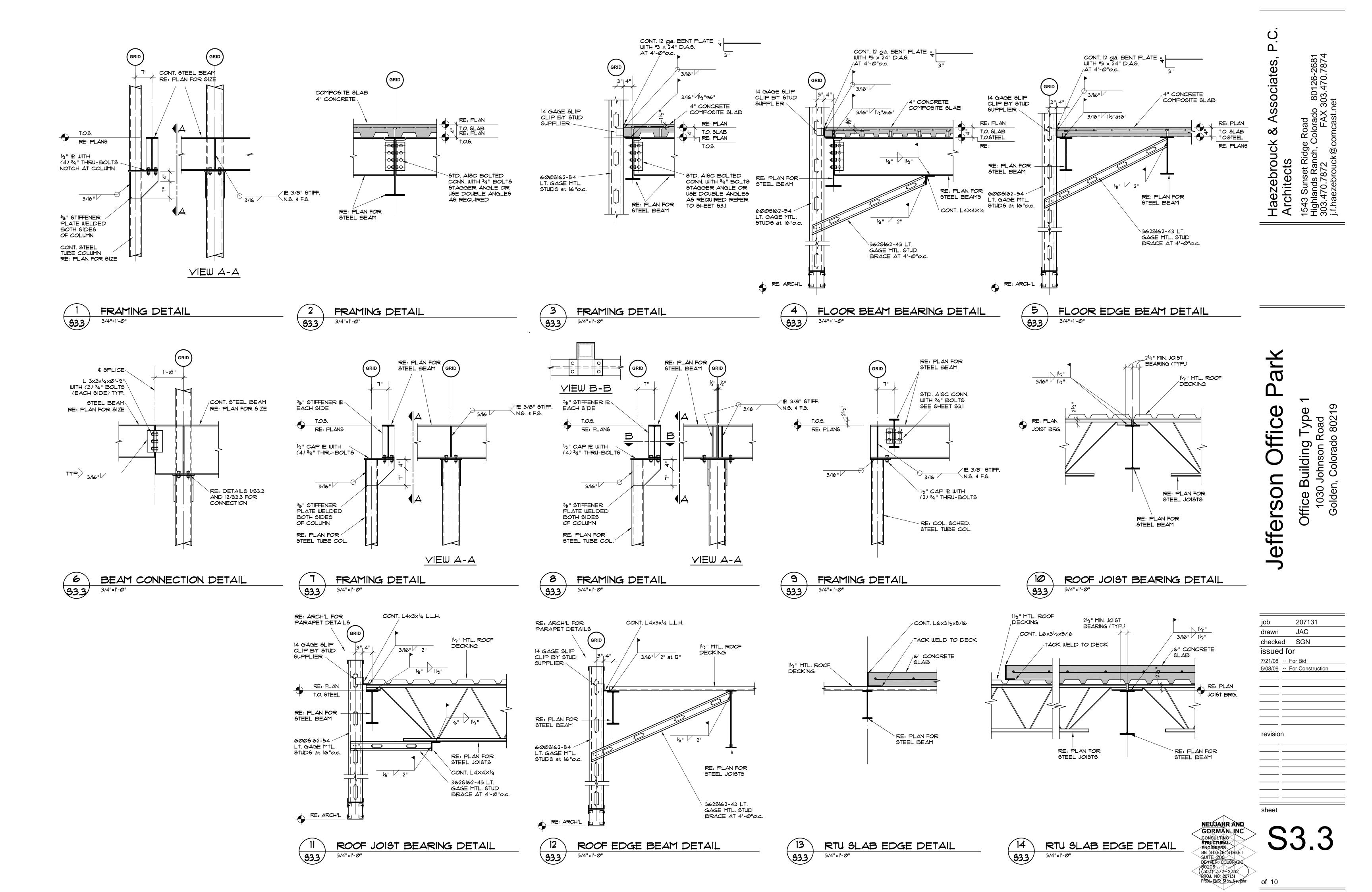
AT ALL OPENINGS:

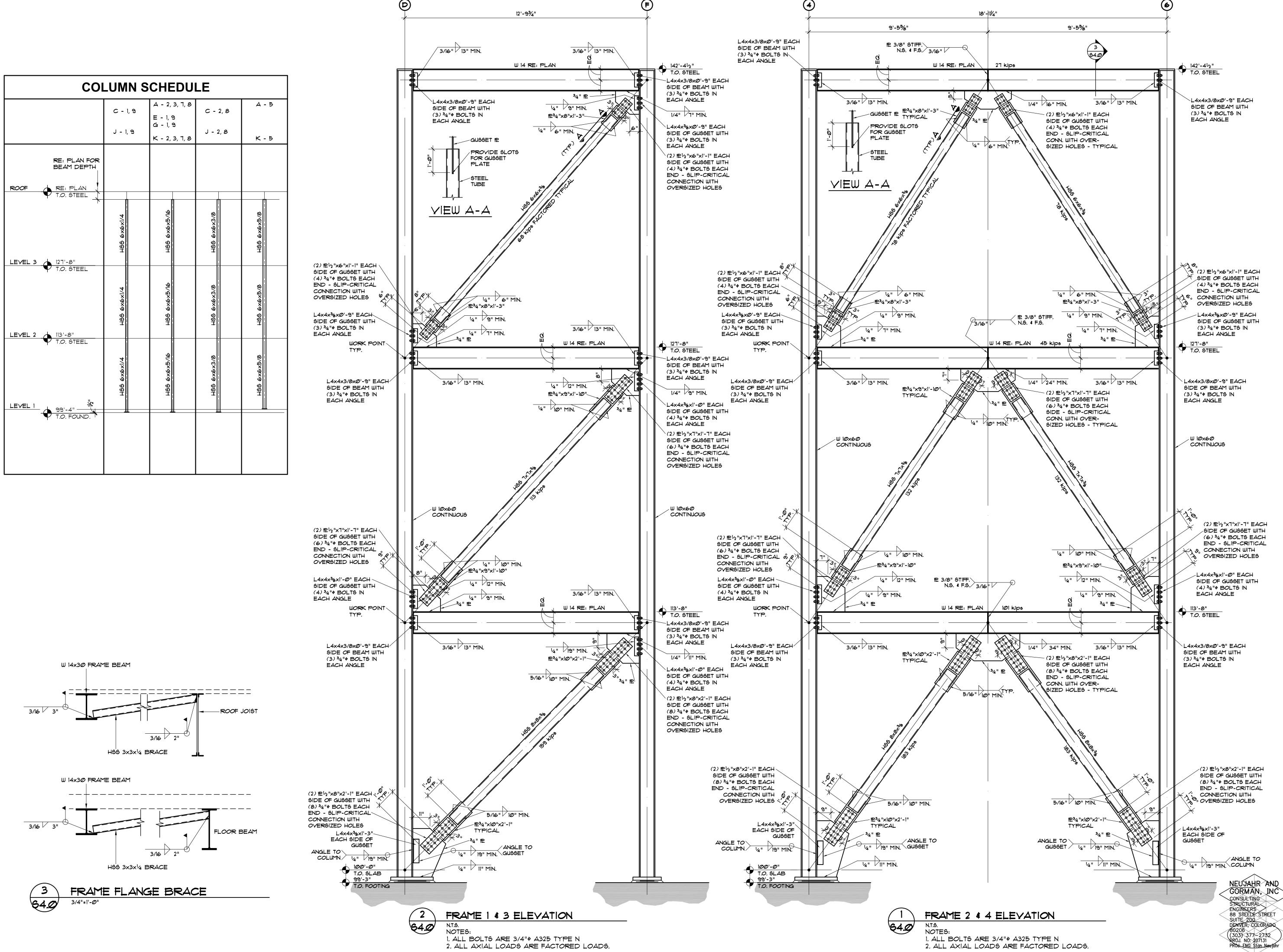
DISTANCE "X" EXCEEDS Ø'-6"

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NEUJAHR AND GORMAN, INC CONSULTING
STRUCTURAL
ENGINEERS
88 STEELE STREET
SUITE 200
DENVER, COLORADO
80206
(303) 377-2732
RROJ. NO: 207131
PROJ. ENG: Stan New John

sheet





2. ALL AXIAL LOADS ARE FACTORED LOADS.

Office 

80126-2681 303.470.787<sup>2</sup>

ssociates,

laezebrouck & rchitects

Office Building 7 1030 Johnson R Golden, Colorado effers

207131

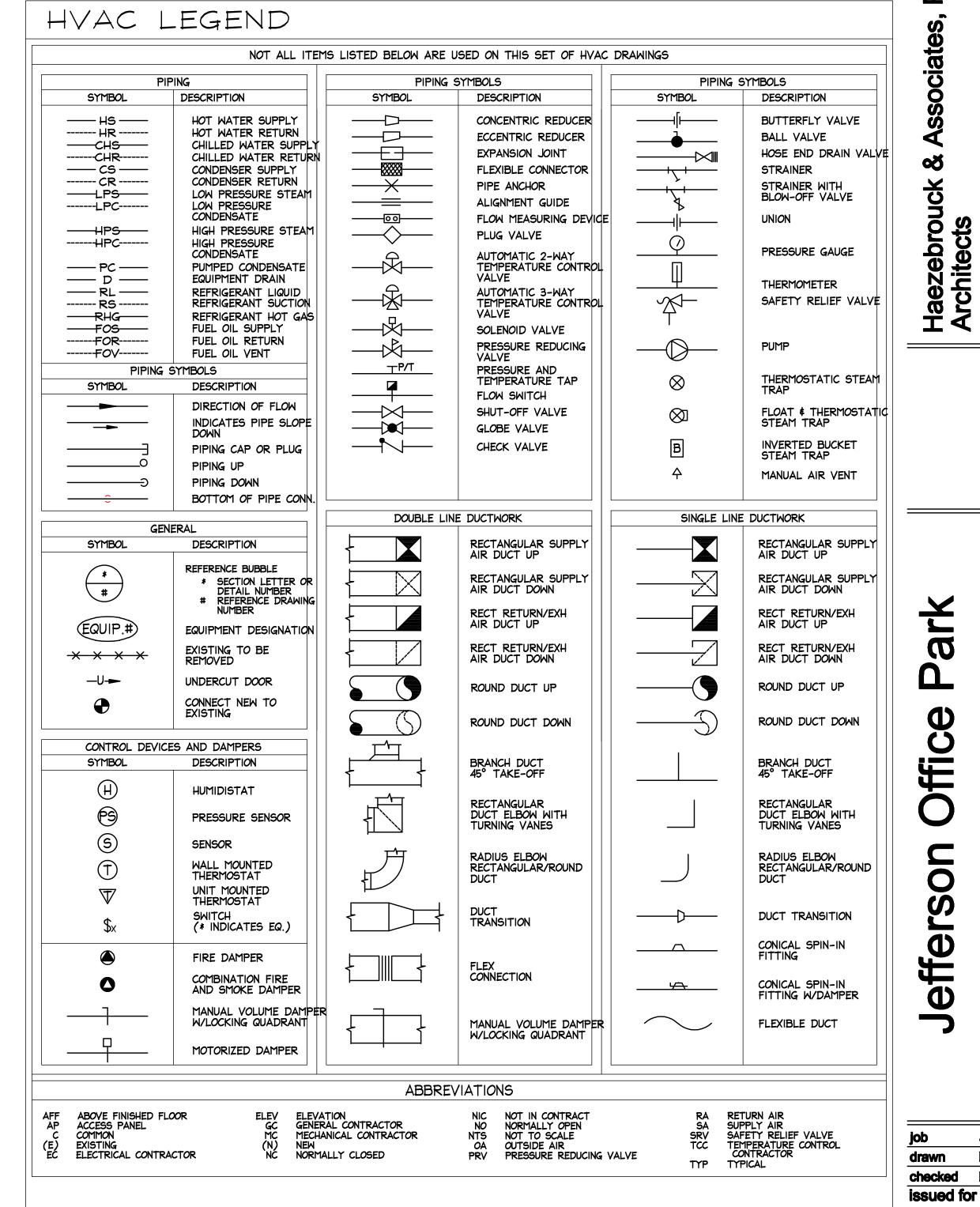
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2. ALL AXIAL LOADS ARE FACTORED LOADS.

EXHAU	ST FAN S	CHEDULE												
SYMBOL	FAN TYPE	SERVICE	MFR	MODEL	WHEEL DIA IN	CFM @ 5300¹	SP IN WC @ SL	APPROX RPM	SONES	MIN HP	ELEC	DRIVE TYPE	DAMPER TYPE	REMARKS
EF-1	ROOF CENTRIFUGAL	TOILET EXH.	ACME	PV150	15	1,440	1.0	1,261	12.0	3/4	460V-3¢	BELT	BACKDRAFT	

VARI	ABLE	AIR VO	DLUME	UNIT S	SCHEDU	LE										
				UNIT	TYPE	MAX	MAV	MIN				FAN 1	DATA		HEATING	COIL DATA
SYMBOL	MFR	MODEL	INLET SIZE	SHUT-OFF	FAN POWERED	PRIMARY CFM @ 5300'	HEATING CFM @ 5300'	PRIMARY CFM @ 5300	DISCHARGE NC @ 1.0" SP	RADIATED NC @ 1.0" SP	CFM @ 5300 <sup>1</sup>	ESP IN WC @ SL	HP	ELEC	KM	ELEC
VAV-1	TRANE	VCEF-8	8" <i>ф</i>	Y		700	280		24	25						
FPB-1	TRANE	VPEF-08	8" <i>ф</i>		Y	800	525	200	27	35	925	0.5	1/3	277V-1¢	6.0	480V-3¢

ELECTRI	C CABINET I	JNIT HEATER	₹					
SYMB <i>O</i> L	MFR	MODEL	ARRANGEMENT	RECESS DEPTH IN	KW	CFM @ 53 <i>00</i> 1	FAN MOTOR WATTS	ELEC
ECH-1	TRANE	FFJB04	VERTICAL CABINET		6.0	380	104 WATTS	277V-1¢



																										7/21/08 FOR BID
PACKA	GED RO	OFTOP H	EATING /	AND COOL	ING UNI	T SCHEDL	JLE																			
				SU	PPLY FAN DA	ATA		R	ETURN/EXHAL	JST FAN DAT	`A				COIL DATA							FILTER DATA		APPROX	APPROX	1
SYMBOL	MFR	MODEL	CFM TOTAL @ 5300'	MIN. CFM <i>OA</i> @ 5300'	ESP IN WC @ SL	APPROX RPM	MIN FAN HP	CFM @ 5300¹	ESP IN WC @ SL	APPROX RPM	MIN FAN HP	COIL SERVICE	FACE AREA SQ FT	MBH INPUT @ SL	MBH OUTPUT @ 5300'	MBH COOL TOTAL @ SL	NO COMPR	ELEC	MCA/ MOCP AMPS	EER	TYPE	AREA SQ FT	EFF %	APPROX ROOF CURB DIM	APPROX OPER WT LB	
												HEATING		670.0	439.4											] —— ——
RTU-I	TRANE	SFHFF-75	27,000	6,000	2.75	1,095	40	27,000	0.7	749	15	COOLING	43.1			802.6	6	480V-3¢	221.13/250.0	9.4	PANEL	44.0	65	22'-4"x 10'-0"	12,500	<b>revision</b> ————————————————————————————————————
1. COOLING ( 2. EXTERNAL	COIL CAPACI STATIC PR	ITY BASED OF	N ARI STAND S NOT INCLU	DARD CONDITION DE LOSSES FO	ONS: 80 FDB, OR UNIT CAS	/67 FWB, 95 F BING, FILTERS,	F AMBIENT A , OR COILS.	T CONDENSER	R. 3.BU 4.PR	RNER SHALL ROVIDE UNIT N	BE DESIGNE WITH SUPPL	ED TO FIRE ON Y AND RETURN	NATURAL ( I AIR DUCT	GAS, 6" WC. S SMOKE DETE	B70 BTU/CF. CTORS											

**sheet** 

303.470.7874

1543 Sunset Ric Highlands Ranc 303.470.7872 j.f.haezebrouck

Office Building Type 1 1030 Johnson Road Golden, Colorado 80219

JOP/MCD805

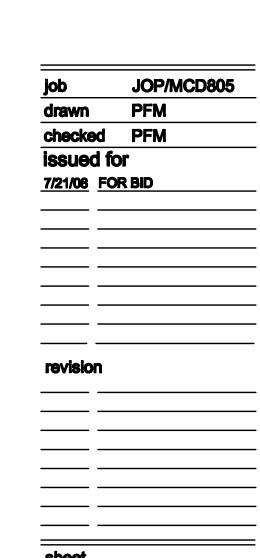
PFM

PFM

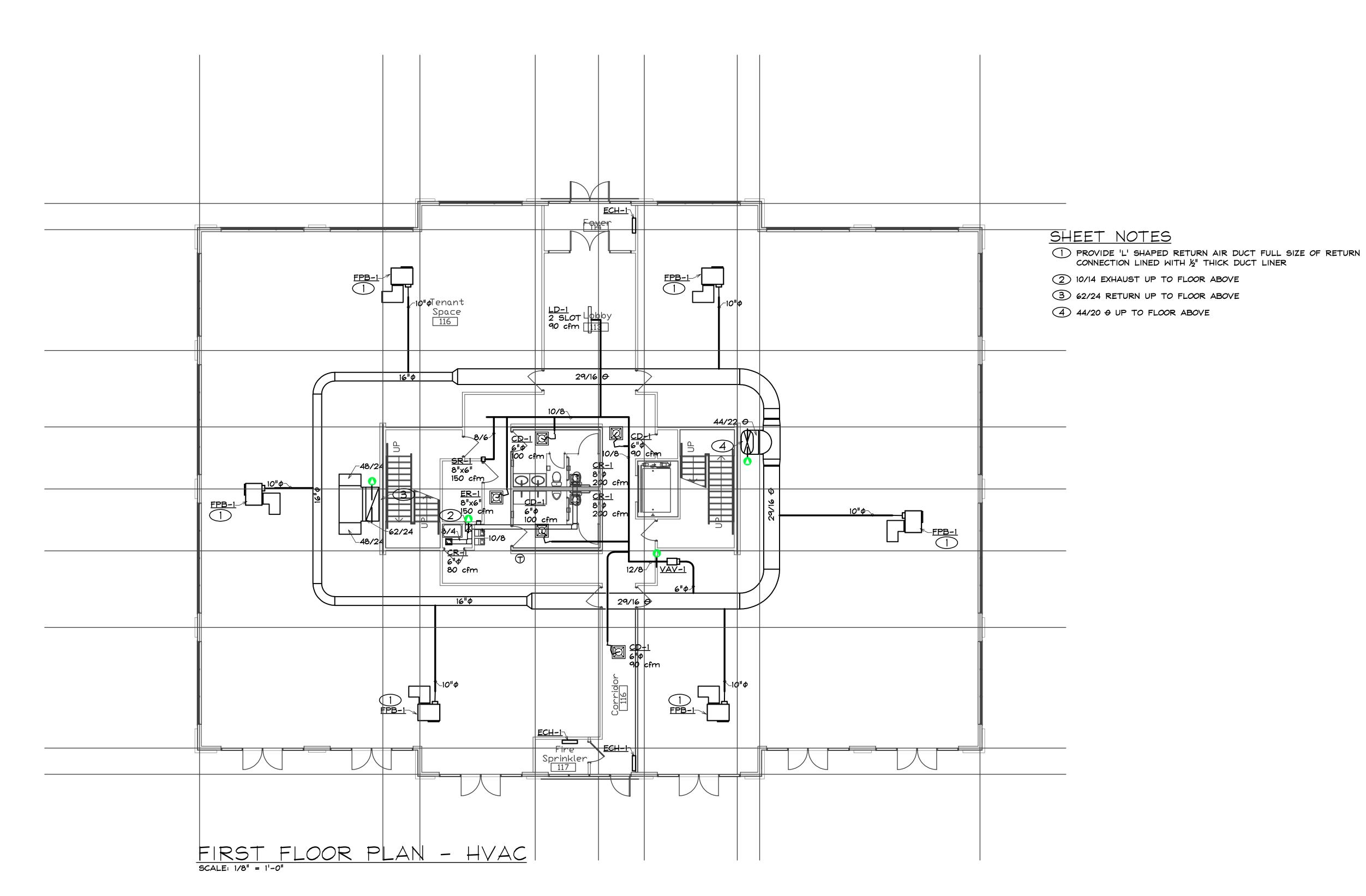
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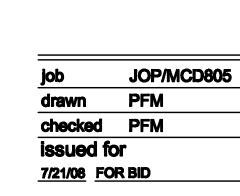
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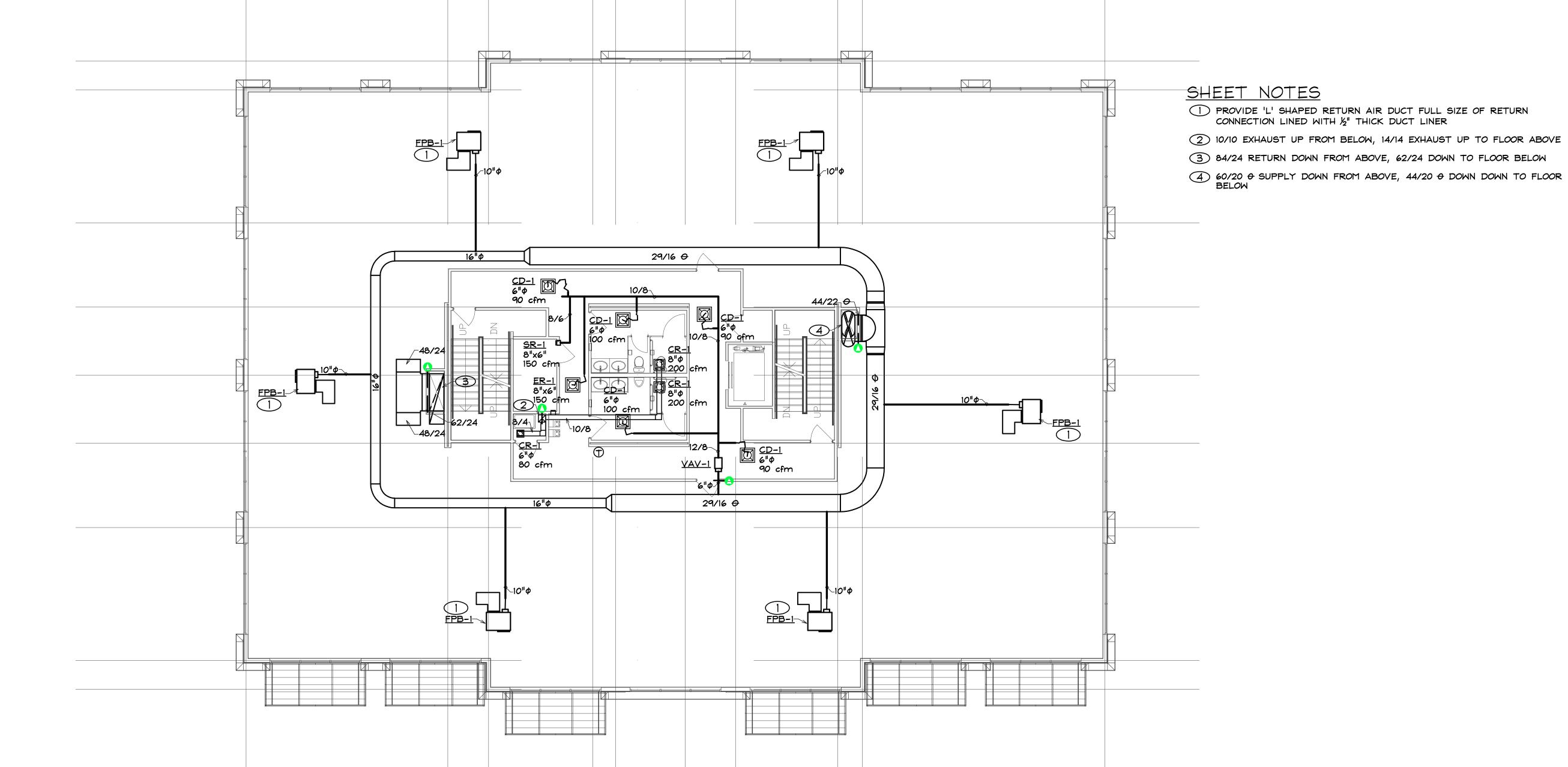
P: 303.875.9293 F: 303.346.8549 E: mcdesign@qwest.net





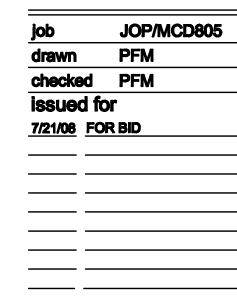


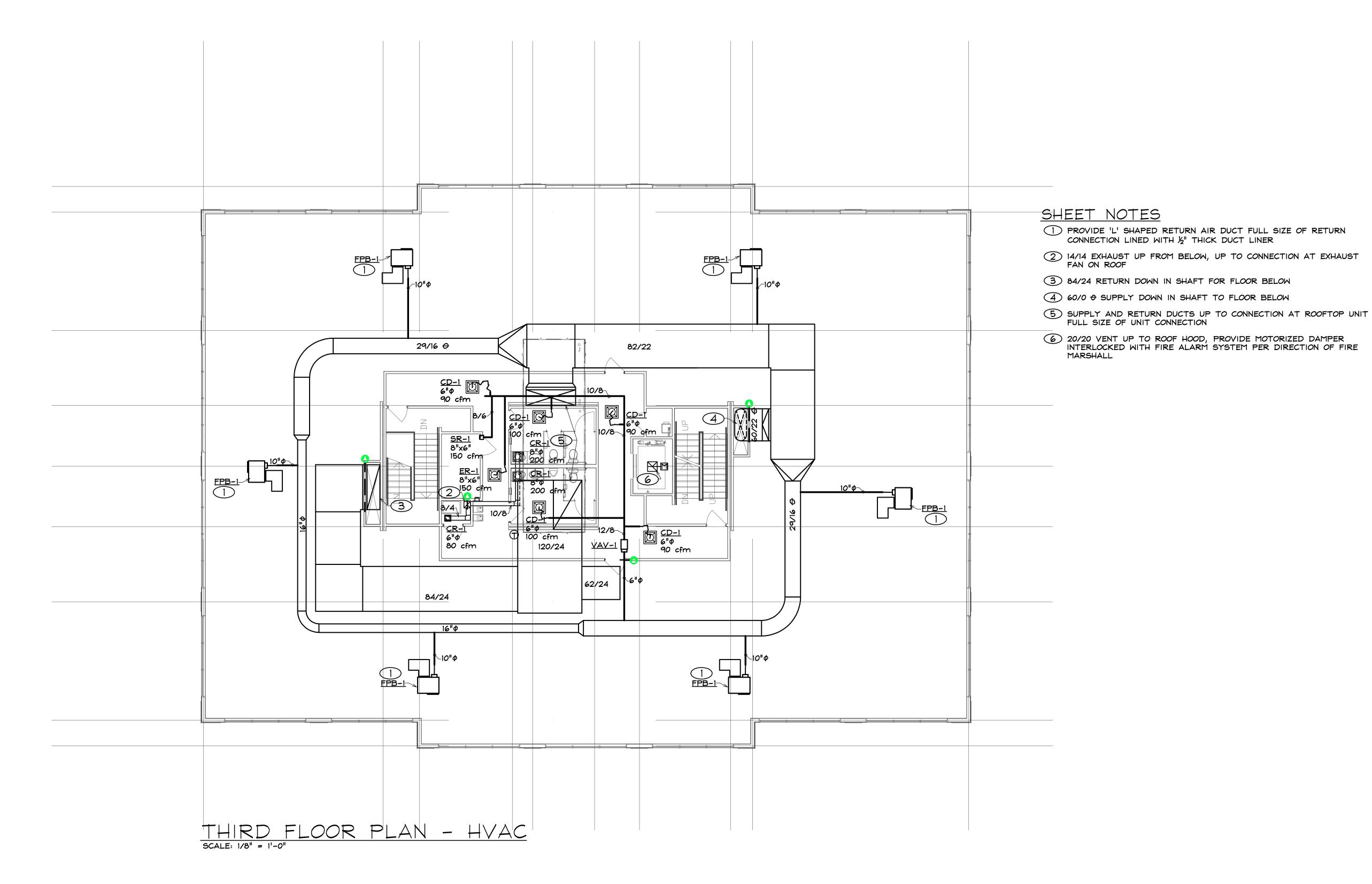




SECOND FLOOR PLAN - HVAC

SCALE: 1/8" = 1'-0"





revision

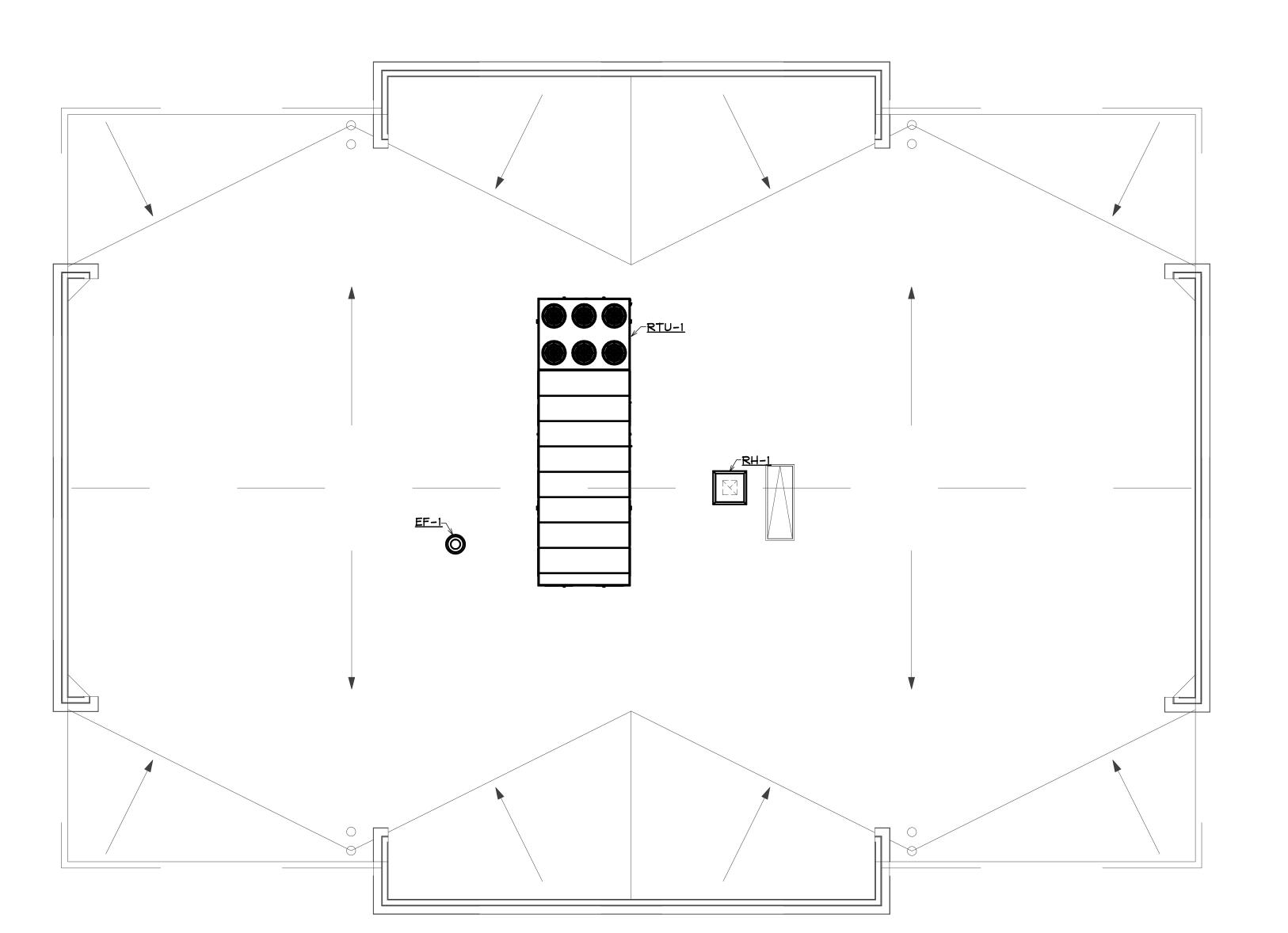
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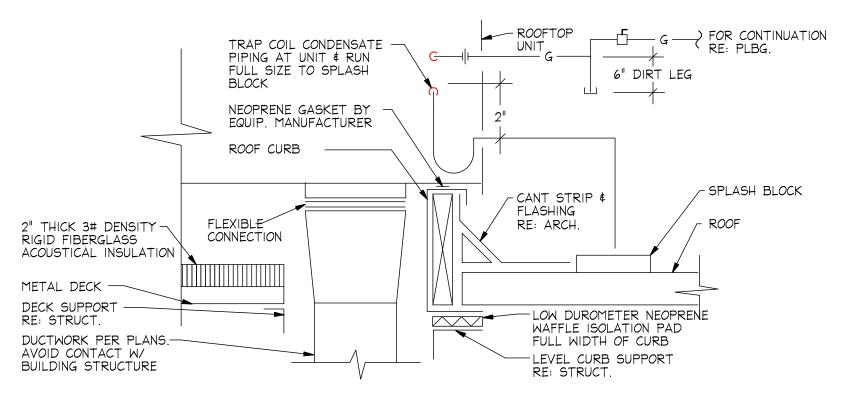
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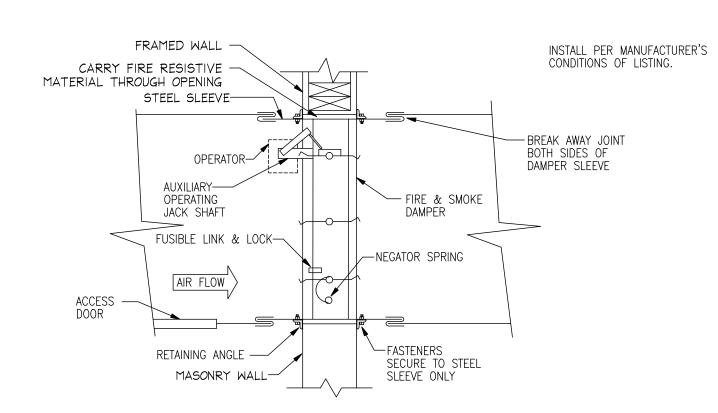
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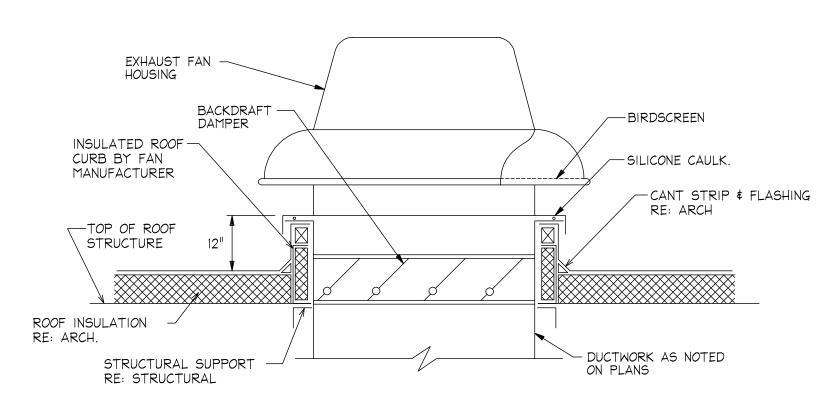
ROOF FLOOR PLAN - HVAC



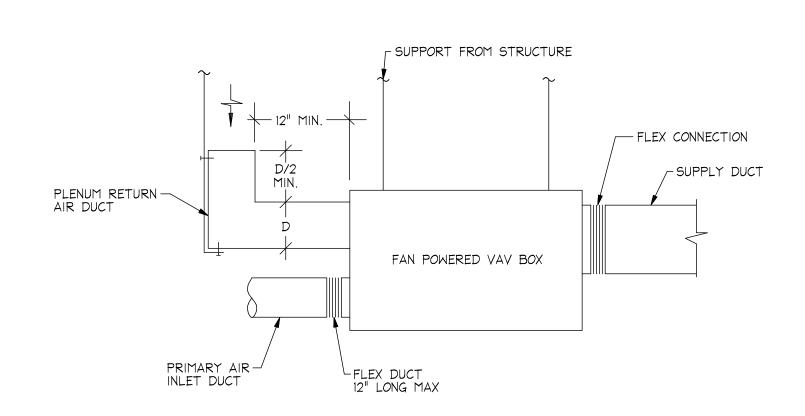
1 ROOFTOP UNIT INSTALLATION DETAIL
M3.1 NOT TO SCALE



2 FIRE AND SMOKE DAMPER DETAIL
M3.1 NOT TO SCALE



3 ROOF EXHAUST FAN DETAIL
M3.1 NOT TO SCALE



4 FAN POWERED VAV BOX DETAIL
M3.1 NOT TO SCALE

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job JOP/MCD805
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sociates,

Haezebrouck { Architects

Park

Office

Jefferson

M3.1

of 13

sheet

HW DOMESTIC HOT WATER

HWC DOMESTIC HOT WATER CIRCULATING

HW DOMESTIC HOT WATER AT TEMP. SHOWN

V SANITARY VENT

STORM DRAIN

ABOVE FLOOR

STORM DRAIN

BELOW FLOOR

ABOVE FLOOR

BELOW FLOOR

----- AW ACID WASTE ABV. FLOOR

OVERFLOW DRAIN

PLUMBING PIPING

---BD--- BD BUILDING DRAIN

---BS---- BS BUILDING SEWER

-----SS------ SS STORM SEWER

----GW---- GW GREASE WASTE

----- G ----- G NATURAL GAS

----AW---- AW ACID WASTE BEL. FLOOR

MPG NATURAL GAS MEDIUM PRESSURE

CA COMPRESSED AIR

T TEMPERED WATER

PD PUMP DISCHARGE LINE

DESCRIPTION

OF FLOW

ARROW IN LINE

INDICATES PIPE SLOPE DOWN

BOTTOM PIPE CONNECTION

PIPING UP

PIPING DOWN

FIXTURE OR DRAIN TRAI

PIPING CAP OR PLUG

REMOVE EXISTING

INDICATES DIRECTION

CIRCULATION

FD FOOTING DRAIN

---- IW INDIRECT WASTE

------ | FM |F*o*rce main

——— LI ——— | LI |LAWN IRRIGATION

FIRE PROTECTION PIPING

--- F ---- F FIRE SPRINKLER

ABBIDESCRIPTION

- SP DRY STANDPIPE

- WSP WET STANDPIPE

— | CSP | COMBINED STANDPIPE

SYMBOL

SYMBOL

PLUMBING PIPING SYMBOLS

ABBIDESCRIPTION

------ CW | DOMESTIC COLD WATER

NOT ALL ITEMS LISTED BELOW ARE USED ON THIS SET OF PLUMBING DRAWINGS

PIPING SYMBOLS

- $\triangleright$  $\downarrow$ -

DESCRIPTION

WALL HYDRANT

YARD HYDRANT

BALL VALVE

OS#Y GATE VALVE

SHUT-OFF VALVE

GLOBE VALVE

CHECK VALVE

FLOW SWITCH

GAS VALVE

BREAKER

ARRESTER

STRAINER

RELIEF VALVE

STRAINER WITH

BLOW-OFF VALVE

PRESSURE GAUGE

THERMOMETER

PRESSURE AND

TEMPERATURE TAP

CONCENTRIC REDUCER

ECCENTRIC REDUCER

FLEXIBLE CONNECTOR

AREA/FLOOR DRAIN

DOWNSPOUT NOZZLE

DRY PENDANT SPRINKLER HEADSIDEWALL SPRINKLER

MANHOLE

NC NORMALLY CLOSED

NIC NOT IN CONTRACT

NO NORMALLY OPEN

NTS NOT TO SCALE

(N) NEW

WALL CLEANOUT

LINE CLEANOUT

FIRE PROTECTION SYMBOLS

SYMBOL

DESCRIPTION

REMOVE EXISTING SPRINKLER HEAD

- EXISTING SPRINKLER HEAD

UPRIGHT SPRINKLER HEAD

PENDANT SPRINKLER HEAD

MIXING VALVE

SOLENOID VALVE

PRESSURE REDUCING

BACKFLOW PREVENTER

ATMOSPHERIC VACUUM

BUTTERFLY VALVE

BALANCING VALVE/ FLOW MEASURING DEVICE

PIPING SYMBOLS

DESCRIPTION

WITH CURB BOX

WATER METER

GAS METER

MANHOLE

THRUST BLOCK

CATCH BASIN

FLOOR SINK

ROOF DRAIN

MEDICAL GAS

------ VAC ------- | VAC | VACUUM

---- N ------ N NITROGEN

----- DI ------ DI | DISTILLED WATER

----- DE ----- DE | DEIONIZED WATER

----- MV------ | MV | MEDICAL VACUUM

— LV — LV | LAB. VACUUM

ZV

SYMBOL

#

SHT.#

EQUIP.#

ANGLE VALVE W/ DRAIN

M

DOUBLE CHECK VALVE

FIRE DEPT. CONNECTION

FIRE PROTECTION SYMBOLS

SYMBOLS AND DESCRIPTIONS

----- CV ------- CV CENTRAL VACUUM

------ LA ------- | LA | LAB. COMPRESSED AIR

**GENERAL** 

| ALP | ALARM PANEL

ZV ZONE VALVE

DESCRIPTION

REFERENCE BUBBLE

RISER BUBBLE

CONNECT NEW TO EXISTING

PUMP TEST HEADER

FIRE HYDRANT

PRESSURE REDUCING VALVE POINT OF CONNECTION

PUBLIC SERVICE COMPANY

THERMOSTATIC MIXING VALVE

SURFACE CLEAN OUT

TYPICAL

WCO WALL CLEAN OUT VTR VENT THROUGH ROOF

SAFETY RELIEF VALVE

FIRE HOSE/VALVE CABINE

DESIGNATION

\* DETAIL NUMBER OR
 SECTION LETTER
 \* REFERENCE DRAWING
 NUMBER

MECHANICAL / ELECTRICAL

EQUIPMENT DESIGNATION

----- MA ----- | MA | MEDICAL AIR

ABBIDESCRIPTION

- N20 NITROUS OXIDE

- | O2 | OXYGEN

OVERFLOW DRAIN

FLOOR CLEANOUT

SYMBOL

ffic ilding

JOP/MCD805 PFM drawn PFM issued for 7/21/08 FOR BID

Bui o Jot on, C Jefferson Office E 1030 Golden

checked SECTIONAL VALVE W/ DRAIN sheet

PLUMBING FIXTURE SCHEDULE CONNECTIONS CONNECTIONS DESCRIPTION MANUF MODEL REMARKS KEY DESCRIPTION MANUF MODEL REMARKS | W | V | CW | H/TW | W | V | CW | H/TW WALL HUNG URINAL ELEC. WATER COOLER HWUACP8L 2,3 INTIGRAL EWC-1 1 1/4" UR-1 FLUSH VALVE KOHLER INT. | 2" | 2" | 3/4" SUPPORT CARRIER J.R. SMITH SUPPORT CARRIER J.R. SMITH FLR. MTD. WATER CLOSET K-3439-T UNDERMOUNT LAVATORY KOHLER KOHLER FAUCET KOHLER K-10950-4 1 1/4" | 2" | 2" | 1/2" | 1/2" 2 FLUSH VALVE KOHLER PRESSURE-LITE INT. | 4" | 2" | 1/2" | K-13885 KOHLER STRAINER/OFFSET TAILPIECE KOHLER K-4670-C TSB-100 FLR. MTD. WATER CLOSET K-3531 KOHLER 3" | 3" | 2" | 1/2" | 1/2" 110-1.6-YBYC FAUCET CHICAGO SLOAN INT. 4" 2" 1/2" FLUSH VALVE --HOSE & HOSE BRACKET 832-AA KOHLER K-4670-C

- NOTES: A.) REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHT ELEVATIONS OF ALL PLUMBING FIXTURES PRIOR TO INSTALLATION. B.) PROVIDE ALL FIXTURES WITH CHROME PLATED CAST BRASS, ADJUSTABLE 'P' TRAPS WITH CLEANOUT PLUGS, TUBING OUTLETS AND WALL FLANGES UNLESS FIXTURE IS FURNISHED WITH
  - AN INTEGRAL TRAP OR IS PROVIDED ONE AS A STANDARD ACCESSORY
  - C.) PROVIDE ALL FIXTURES WITH CHROME PLATED SUPPLIES WITH ANGLE OR STRAIGHT PATTERN LOOSE KEY STOPS UNLESS FIXTURE IS FURNISHED WITH INTEGRAL STOPS OR STOPS ARE PROVIDED AS STANDARD ACCESSORIES.

  - D.) ALL FLUSH VALVES SHALL BE SLOAN "REGAL" MODELS WITH A.D.A. COMPLIANT HANDLES. E.) ALL EXPOSED PIPING SHALL BE POLISHED CHROME. F.) COORDINATE ALL CASEWORK MOUNTED FIXTURES WITH BASE CABINET DIMENSIONS PRIOR TO ORDERING FIXTURES. NOTIFY ARCHITECT/ENGINEER IMMEDIATELY IF A CONFLICT EXISTS.
- G.) PROVIDE ALL FLUSH VALVES W/A.D.A. COMPLIANT HANDLES. ACCESSIBLE WATER CLOSETS SHALL BE OPERABLE FROM THE WIDE SIDE OF THE STALL.
- REMARKS: 1.) FURNISH COMPLETE WITH BACK PANEL AND VANDAL RESISTANT BOTTOM PLATE.
  - FIXTURE DESIGNATED TO BE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (A.D.A.).
  - REFRIGERATION SYSTEM CHARGED WITH R-134A REFRIGERANT.
  - 4.) FAUCET COMPLETE W/ RIGID GOOSENECK SPOUT, E3-VP AERATOR \$ 317 WRIST BLADE HANDLES. INSULATE TRAP AND WATER SUPPLIES.
  - 5.) EXTEND CHROME PLATED TAILPIECE TO PLASTER TRAP.
  - 6.) FAUCET TO HAVE ROUGH CHROME FINISH AND SHALL BE MOUNTED 3'-6" A.F.F. PROVIDE MSG 2424 S.S. WALL GUARD AND VANDAL-PROOF DRAIN.
  - 7.) FAUCET LEDGE SHALL BE PUNCHED FOR SINGLE HOLE FAUCET SPECIFIED.
  - 8.) PROVIDE CHROME PLATED TAILPIECE EXTENSION AND TURN DOWN TO ALLOW FOR KNEE-SPACE CLEARANCE.
  - 9.) INSTALL DISPOSER IN RIGHT-HAND COMPARTMENT AND DRAIN STRAINER IN LEFT-HAND COMPARTMENT.
  - 10.) SINGLE COMPT. 18 GA. TPE 304 S.S. W/ FAUCET LEDGE PUNCHING AND DRAIN OPENING AS DETAILED ON SHEET P3.1. 11.) ROUGH-IN AND CONNECT TO SINK BASIN FURNISHED AND INSTALLED BY CASEWORK SUPPLIER.
  - 12.) 6'-0" HEAD HEIGHT, 10'-0" HIGH CEILING, TOP SUPPLY \$ VENT, 2.5 GPM, METER-MATIC SINGLE TEMP SUPPLY, DOME GRATE DRAIN, UNIT SHUT-OFF, CIRCULAR SOAP TRAY,
  - SUPPLY COVER WITH CEILING ANCHOR PLATE. 13.) SAME AS SH-1 W/ ACCESSIBLE SHOWER STATION INCLUDING LEVER HANDLE DIVERTER VALVE MOUNTED @ 48" A.F.F., FLEX-SHOWER WITH VACUUM BREAKER AND QUICK DISCONNECT AND
  - COL. MTD. STAINLESS STEEL GRAB BAR. CONTROL VALVE SAME AS FOR SH-1, ALL VALVES MTD. @40" A.F.F. ACCESS. STATION ALSO TO INCLUDE STANDARD SHOWER AS CALLED FOR AT SH-1.
  - 14.) 5'-6" HEAD HEIGHT, TOP SUPPLY, 2.5 GPM, METER-MATIC SINGLE TEMP. SUPPLY, LOCKABLE UNIVERSAL BALL JOINT HEAD, RECESSED SOAP DISH AND INDIVIDUAL STOPS.
  - 15.) SAME AS SH-2 W/ ACCESSIBLE SHOWER STATION INCLUDING LEVER HANDLE DIVERTER VALVE MTD. @ 48" A.F.F., FLEX-SHOWER WITH VACUUM BREAKER AND QUICK DISCONNECT, LESS STAINLESS STEEL GRAB BAR. CONTROL VALVE SAME AS FOR <u>SH-2</u>, MTD. AT 40" A.F.F. STATION ALSO TO INCLUDE STANDARD SHOWER AS CALLED FOR AT <u>SH-2</u>.
  - 16.) 5'-6" HEAD HEIGHT, TOP SUPPLY, 2.5 GPM, SAFTI-TROL PRESSURE BAL. VLV., LOCKABLE UNIVERSAL BALL JOINT HEAD, RECESSED SOAP DISH AND INDIVIDUAL CHECK STOPS. LEVER HANDLED CONTROL AND DIVERTER VALVES MTD. 48" A.F.F. (MAX.). FLEX. SHOWER WITH VACUUM BREAKER AND QUICK DISCONNECT.
  - 17.) COORDINATE FLUSH VALVE ROUGH-IN ELEVATION WITH GRAB BAR MOUNTING HEIGHT PRIOR TO INSTALLATION.
  - 18.) PROVIDE CHICAGO FAUCET MODEL 560-045KJKRBF DUAL PURPOSE MIXING 'Y' ASSEMBLY

PLU	MBING EQUIPMEN	IT SCHEDULE
KEY	DESCRIPTION	BASIS OF DESIGN
SCO-1	GRADE CLEANOUT 2-WAY	SAME AS SCO-1, PROVIDE TYLER PIPE #5460 SERIES 2-WAY CLEANOUT AND #5626 45 DEGREE OFFSETS. (2) COVERS REQUIRED.
FD-I	FLOOR DRAIN	JAY R. SMITH FIG 2010-A-U-PB, DUCO C.I. BODY AND FLASHING COLLAR W/ POLISHED BRONZE, ROUND STRAINER AND VANDAL PROOF SCREWS.
BFP-1	REDUCED PRESSURE BACKFLOW PREVENTER	FEBCO MODEL 825YD INLET AND OUTLET AS NOTED ON PLANS, COMPLETE W/ FULL PORTED BALL VALVES, BALL VALVE TEST COCKS W/ CAPS, BRONZE BODY CONSTRUCTION, W/ BRONZE \$ STAINLESS STEEL TRIM AND AGD-Y AIR GAP DRAIN. EXTEND DRAIN TO FLOOR DRAIN.
WH-1	WALL HYDRANT	WOODFORD MODEL B65 SERIES BOX TYPE, AUTOMATIC DRAINING FREEZE- LESS W/ INTEGRAL VACUUM BREAKER, POLISHED BRASS FINISH 3/4" MPT UNION ELBOW INLET, 3/4" HOSE THREAD NOZZLE, LOOSE TEE KEY.
AD-1	AREA DRAIN	JAY R. SMITH FIG 2475, DUCO C.I. BODY AND FLASHING COLLAR W/ HINGED, HEAVY DUTY CAST IRON GRATE AND SLOTTED SEDIMENT BUCKET.

TOTAL CONN	ECTE	I	GAS DELIVERY PRESS TOTAL DEVELOPED LE	
EQUIPMENT	QTY	INPUT EACH (BTUH)	INPUT TOTAL (BTUH)	REMARKS
RTU-1	1	670,000	670,000	
	,	TOTAL CONNECTED LOAD =	670,000	

### DOMESTIC LIATED LIEATED COLLEDING

DOMES	IIC WATE	R HEALE	R SCHEDL	JLE 				
SYMBOL	MFR	MODEL	STORAGE TANK GAL	INLET WATER TEMP F	OUTLET WATER TEMP F	RECOVERY RATE GPH	ELEMENT KW	ELEC
EWH-1, 2 \$ 3	BRADFORD WHITE	LD-20L3-3	20	40	120	23	4.5	480V-3¢

——FDC——————————————————————————————————	D	FIRE DEPT. CONN DRAIN POST INDICATOR		<i>∲</i> ⊚	REMOVE & RELC EXISTING SPRIN NEW LOCATION EXISTING SPRIN	KLER HEAD	FIRE DI
				4	BBREVIATION	15	
AFF ABOVE FINISH AFG ABOVE FINISH			EXISTING ELECTRICAL	. CONTRACTOR	LCO MC	LINE CLEAN MECHANICAL	OUT CONTRACTOR

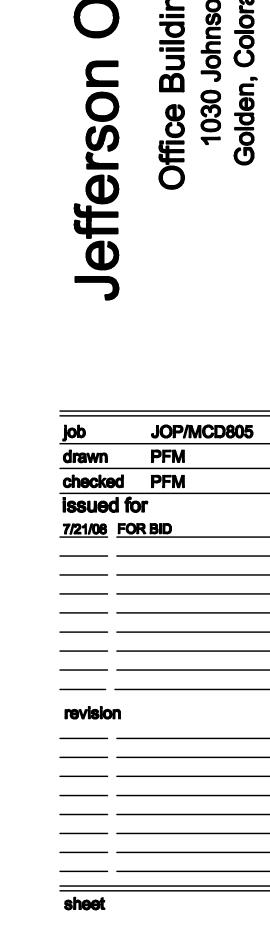
AFG ABOVE FINISHED GRADE ELECTRICAL CONTRACTOR ALP ALARM PANEL ELEVATION AP ACCESS PANEL FLOOR CLEAN OUT BFP BACKFLOW PREVENTE FIRE PROT. CONTRACTOR CB CATCH BASIN GC GENERAL CONTRACTOR © CENTERLINE DNZ DOWNSPOUT NOZZLE INVERT ELEVATION KEC KIT. EQ. CONTRACTOR

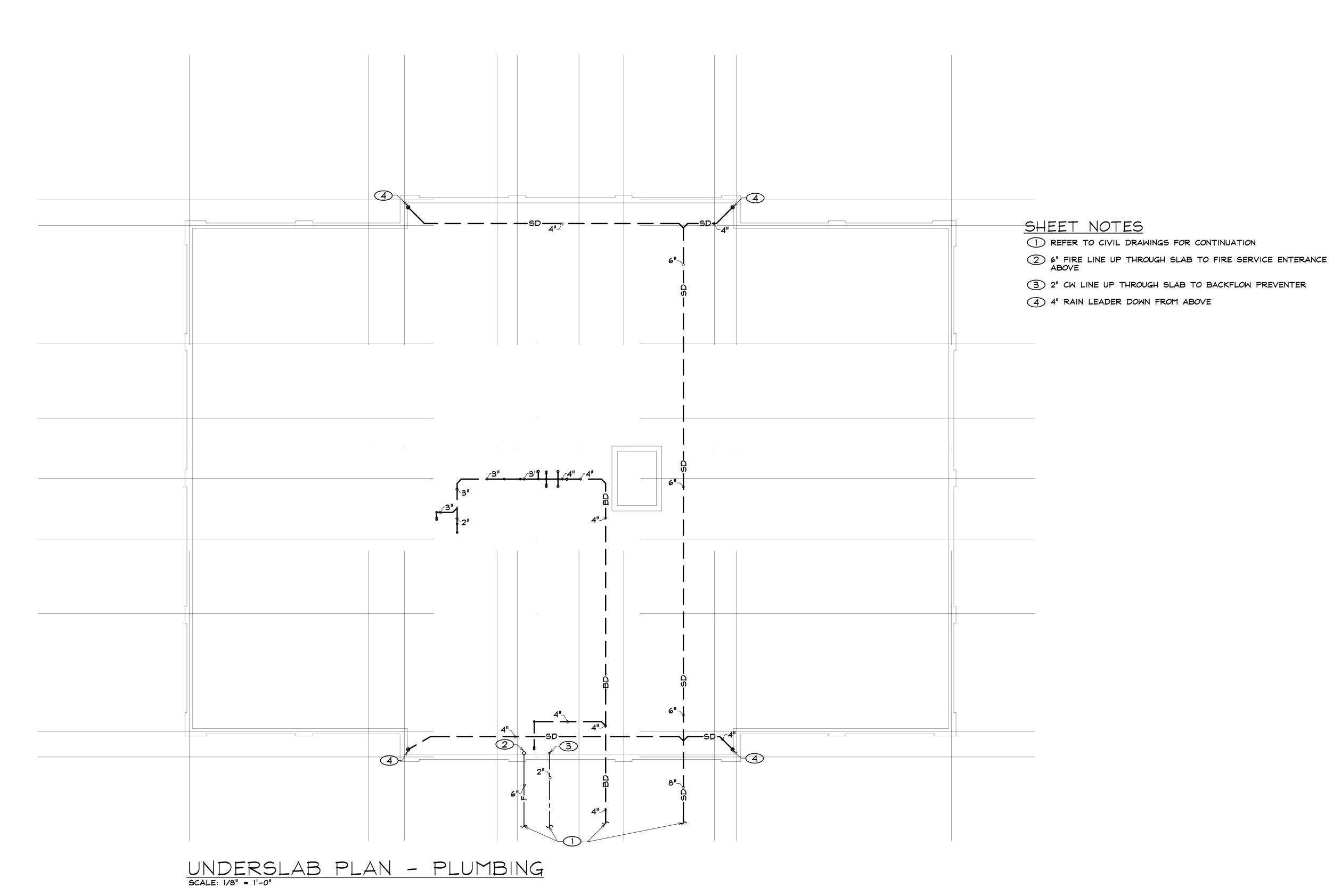
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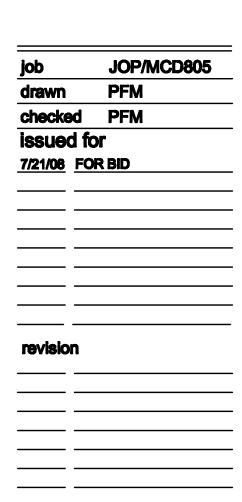
SRV

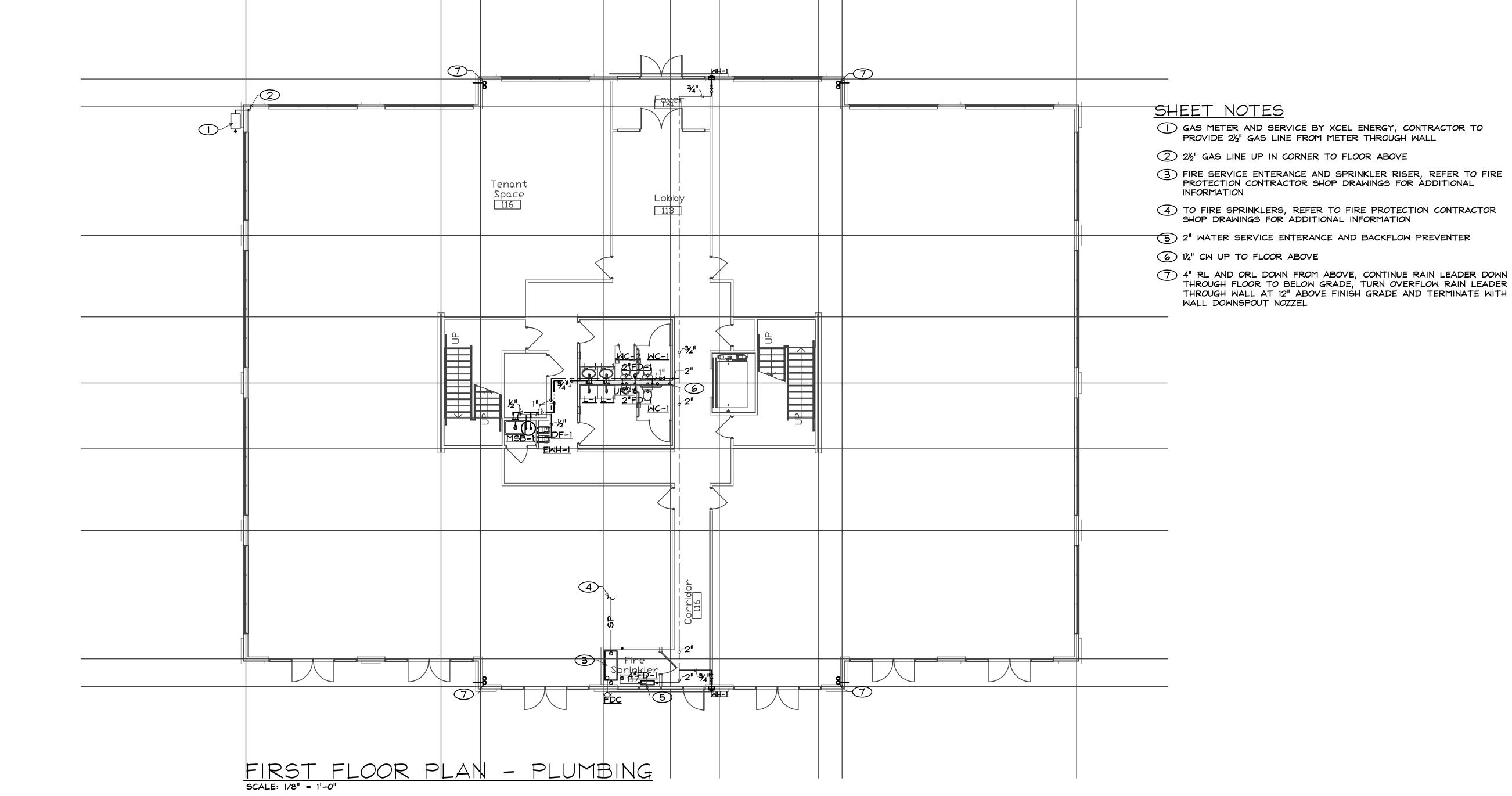


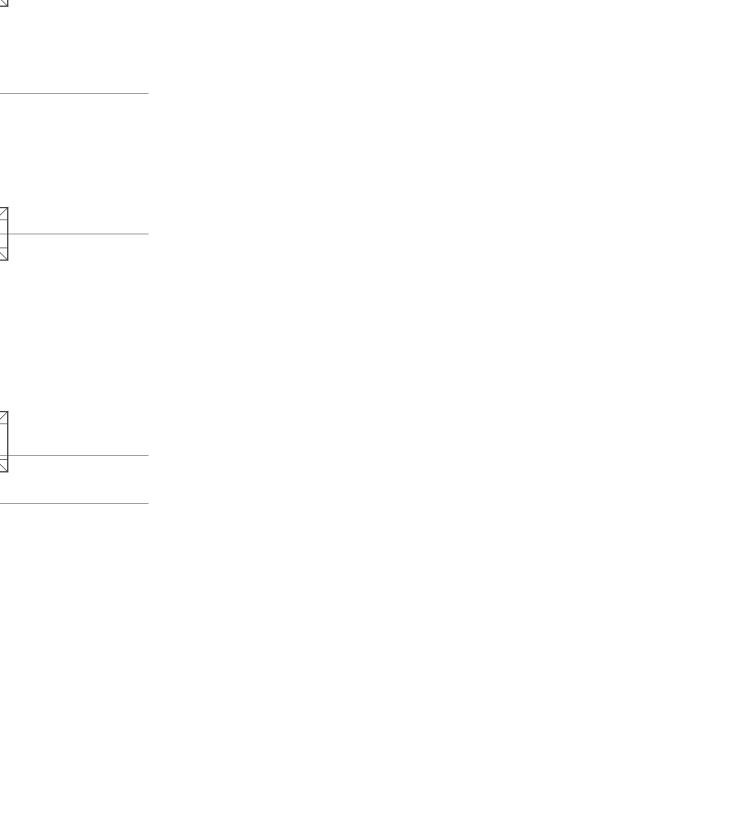
job	JOP/MCD80
drawn	PFM
checked	PFM
issued fo	or
7/21/08 FO	R BID
revision	

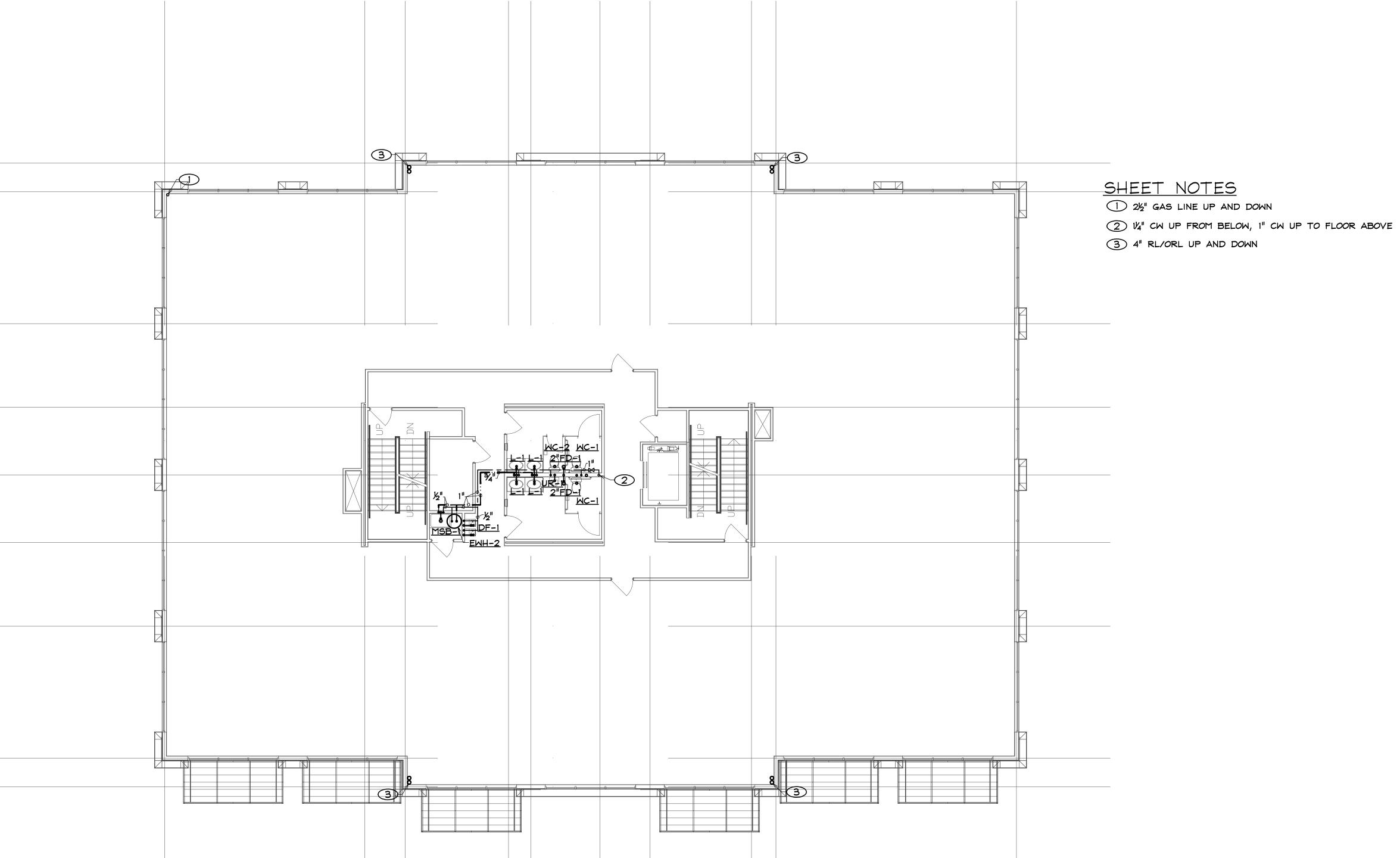






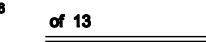


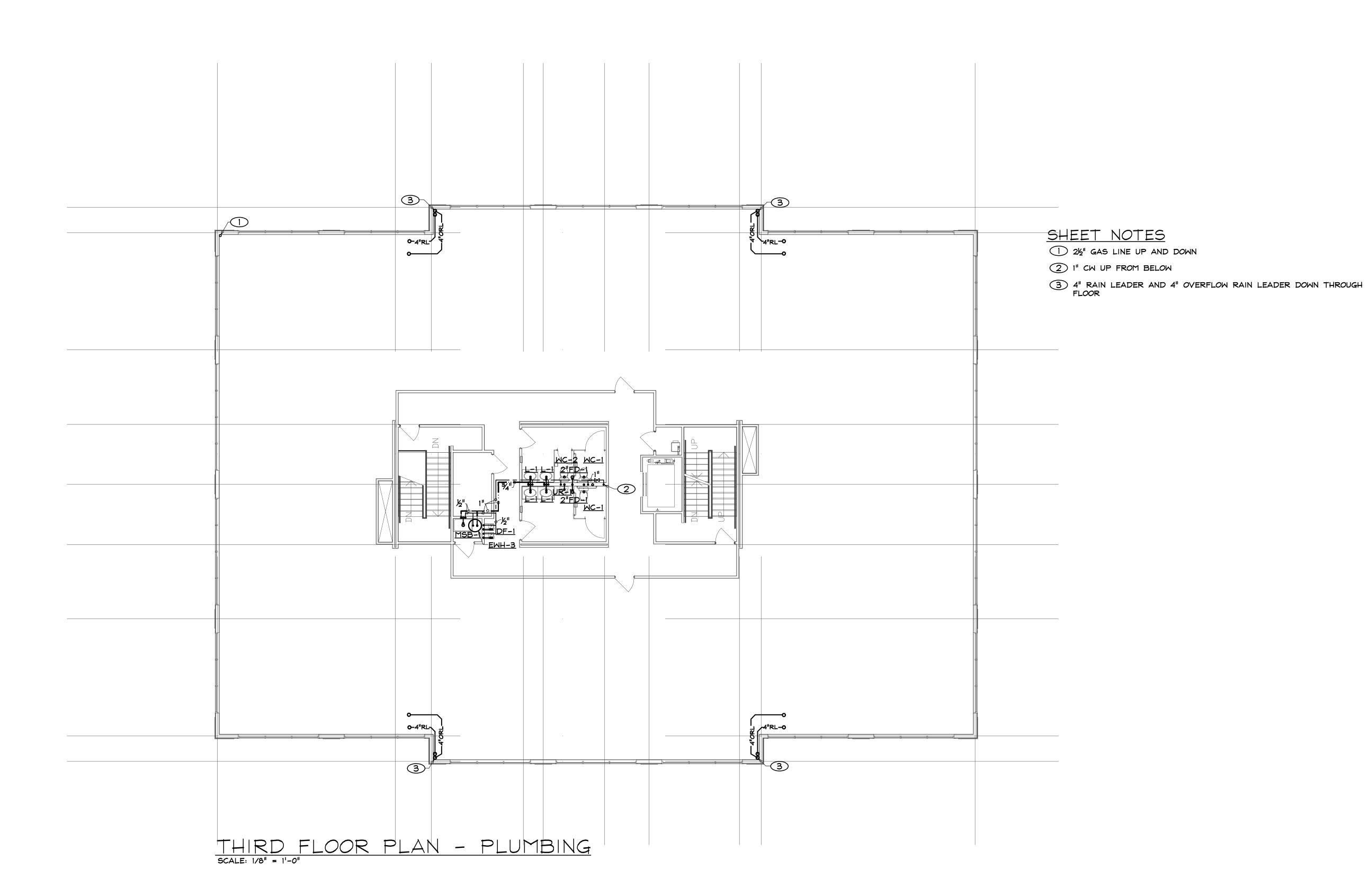




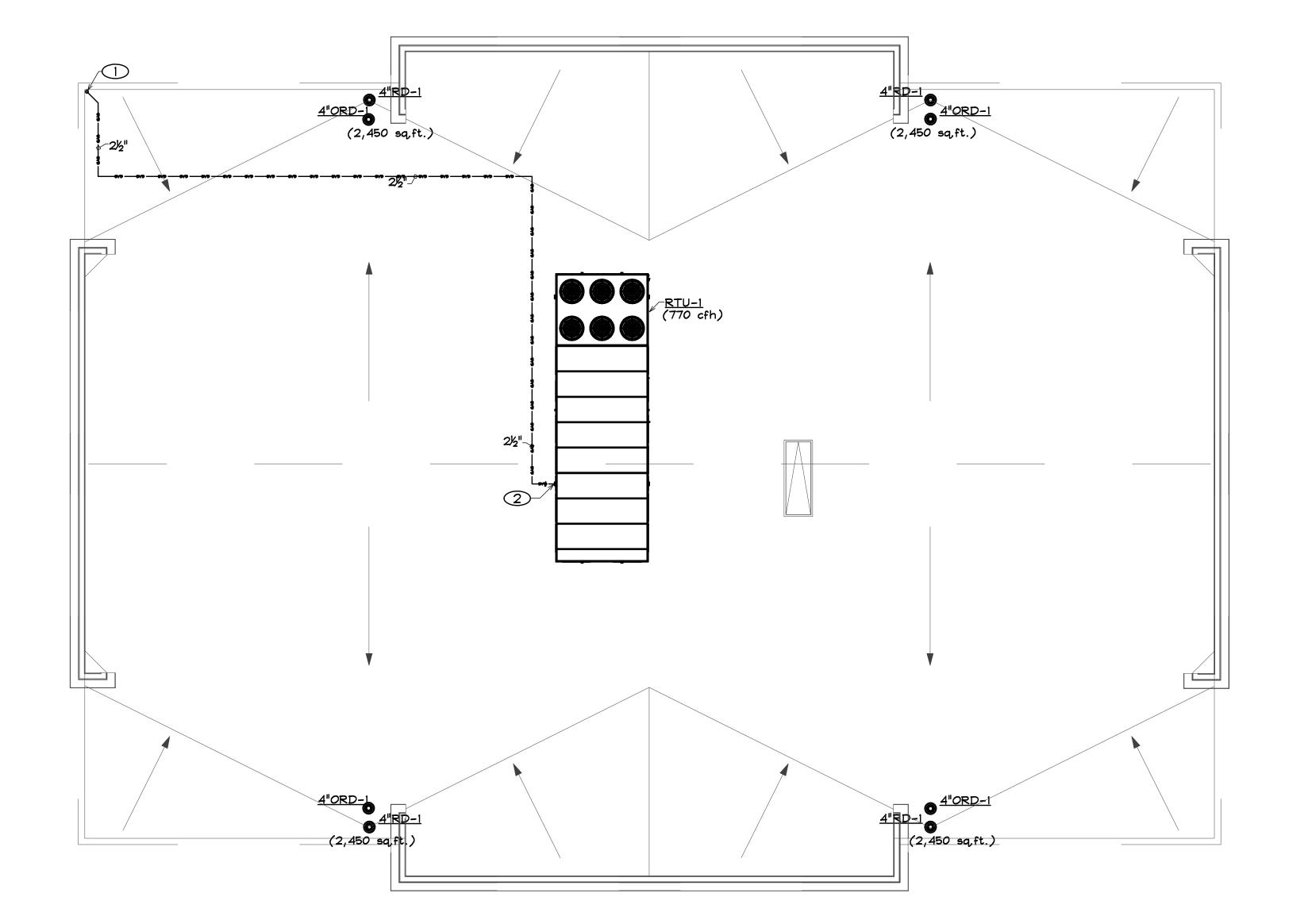
SECOND FLOOR PLAN - PLUMBING

SCALE: 1/8" = 1'-0"





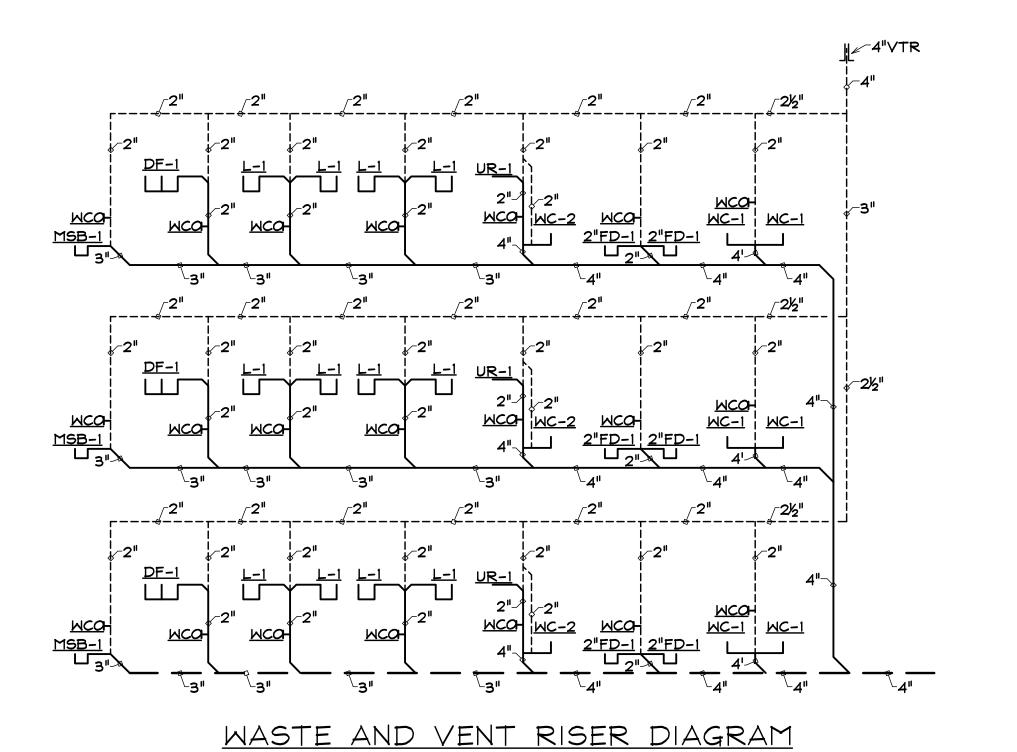


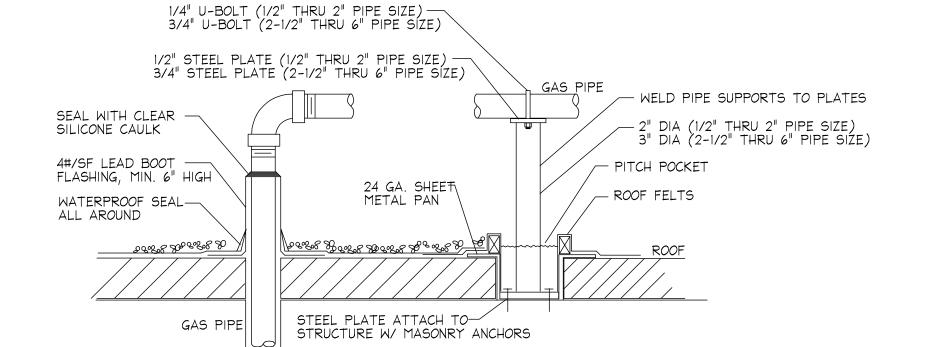


ROOF FLOOR PLAN - PLUMBING
SCALE: 1/8" = 1'-0"

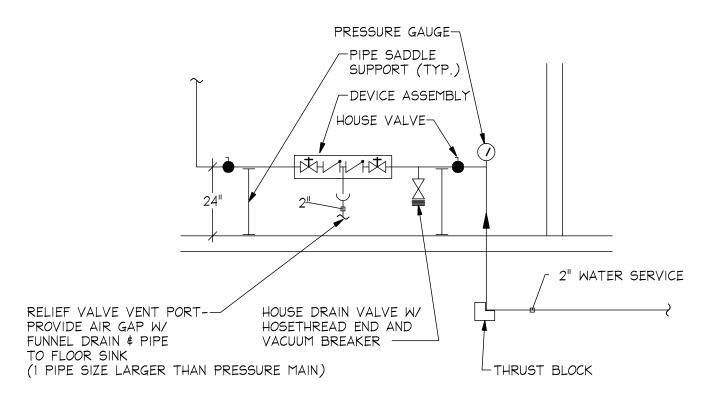
### SHEET NOTES

- 1) 2½" GAS UP THROUGH ROOF FROM BELOW
- 2 2/2" GAS CONNECTION TO ROOFTOP UNIT, PROVIDE SHUT-OFF VALVE, UNION AND MINIMUM 6" DEEP DIRT LEG

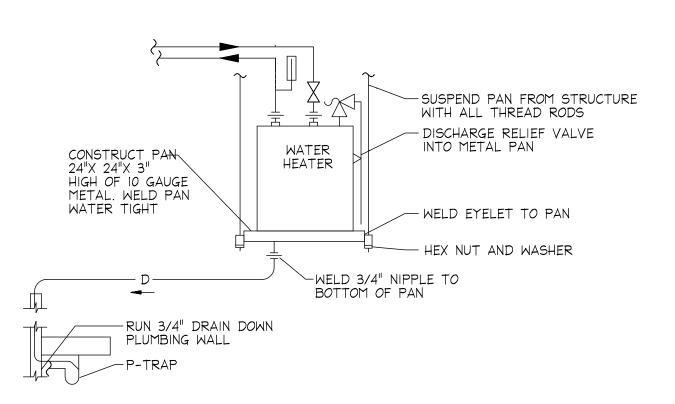




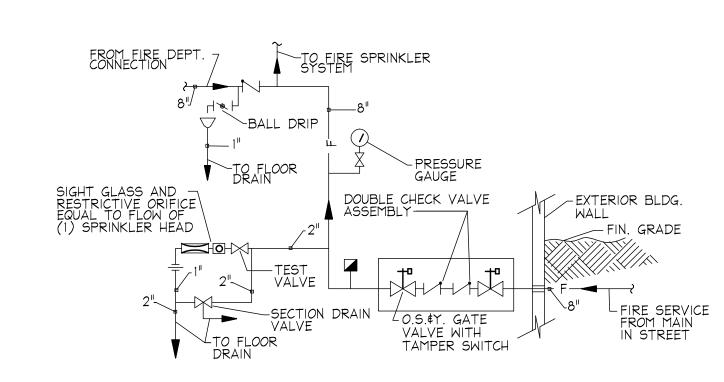
GAS PIPING THRU ROOF AND ROOF SUPPORT DETAIL NOT TO SCALE P3.1



REDUCED PRESSURE BACKFLOW PREVENTER DETAIL P3.1 NOT TO SCALE



ELECTRIC WATER HEATER DETAIL NOT TO SCALE P3.1



FIRE SERVICE ENTRY DETAIL P3.1 NOT TO SCALE

MCDONALD CONSULTING + DESIGN CONSULTING MECHANICAL ENGINEERS

10698 AMESBURY WAY HIGHLANDS RANCH, COLORADO 80126
P: 303.875.9293 F: 303.346.8549 E: mcdesign@qwest.net

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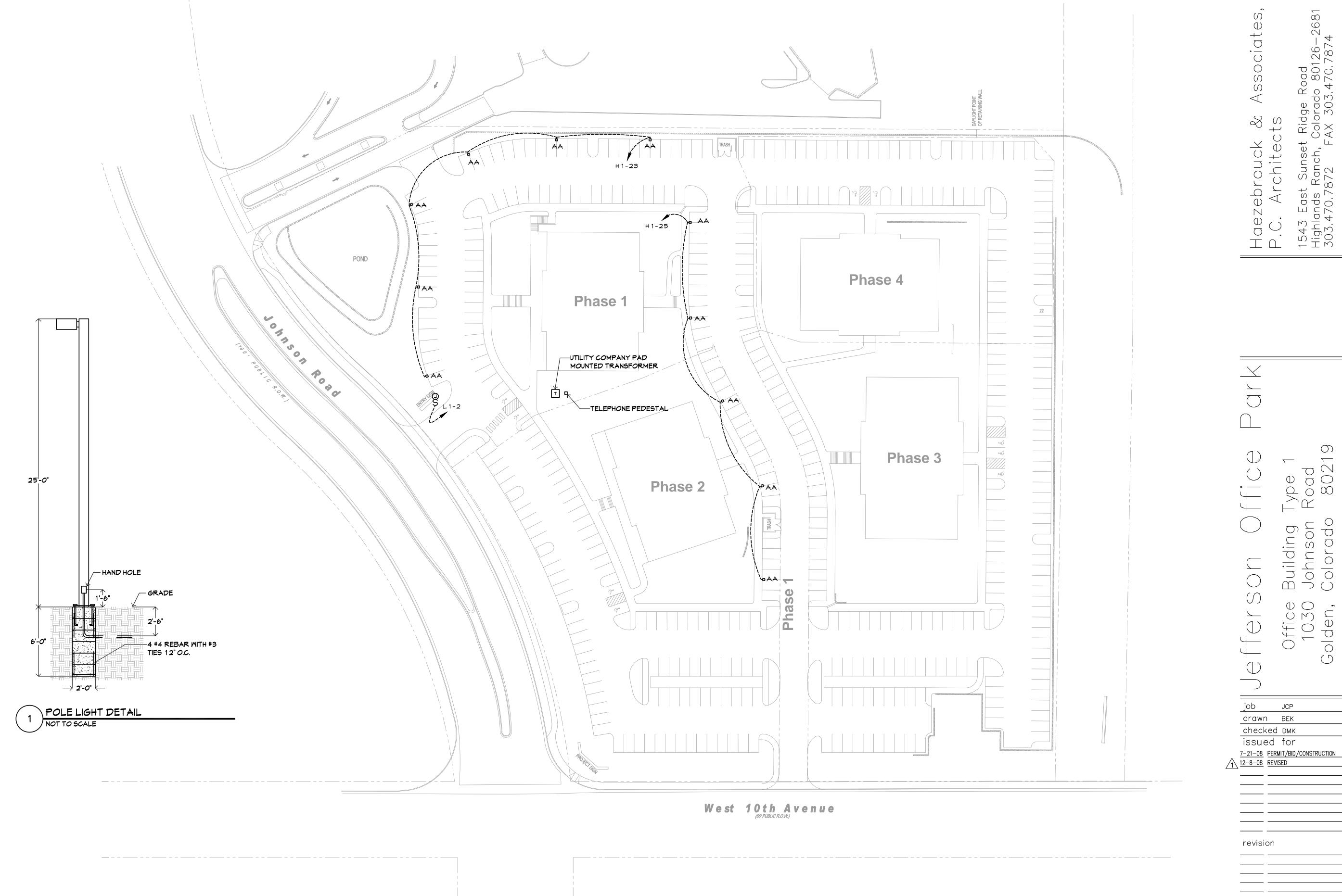
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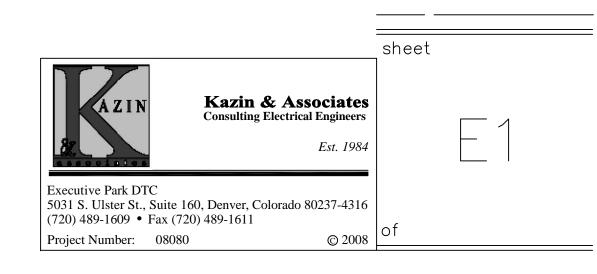
Office

**sheet** 



SITE ELECTRICAL PLAN

SCALE: 1" = 40'-0"



Building Johnson Colorado

Office 1030 Golden,

JCP

- → SINGLE RECEPT. 125V, 15A/20A AS REQUIRED
- ⇒ DUPLEX RECEPT.- 125V, 15A/20A AS REQUIRED ♦ FOURPLEX RECEPT. - 125V, 15A/20A AS REQUIRED
- ♦ HALF-SMITCHED RECEPT. 125V, 15A/20A AS RQ'D SPECIAL PURPOSE RECEPT. - ∨ AND A AS REQUIRED TLUSH FLOOR OUTLET (DEVICE AS INDICATED)
- HO CLOCK RECEPTACLE -PM12- PLUGMOLD - # INDICATES RECEPTACLE SPACING O.C.
- MM WIREMOLD AS SPECIFIED ON PLAN
- PP POWER POLE
- S SINGLE POLE SWITCH
- S<sub>2</sub> TMO POLE SMITCH
- S<sub>3</sub> 3-MAY SMITCH
- <sup>5</sup>₄ 4-MAY SMITCH
- Sp SWITCH WITH PILOT LIGHT Sk KEY OPERATED SMITCH
- D R S DIMMER SMITCH WATTAGE AS REQUIRED
- S<sub>T</sub> MECHANICAL TIME SMITCH
- S<sub>LY</sub> LOW VOLTAGE SWITCH
- ☑ □ SV VARIABLE SPEED MOTOR CONTROL SWITCH S<sub>CB</sub> CIRCUIT-BREAKER SMITCH - 20A 1P
- Ø OCCUPANCY SENSOR CEILING MOUNTED
- ◆ OCCUPANCY SENSOR WALL MOUNTED
- S LOW VOLTAGE AUTOMATIC CONTROL SMITCH
- THERMAL OVERLOAD SMITCH
- PUSH BUTTON
- T EMERGENCY POWER SHUNT TRIP BELL, CHIME, OR BUZZER
- TIME SWITCH TORK
- PHOTOCELL SMITCH AND RECEPTACLE GANGED TOGETHER
- △ DATA OUTLET
- △ FLUSH FLOOR MOUNTED TELEPHONE OUTLET
- ▲ TELEPHONE OUTLET ▲ COMBINATION TELEPHONE/DATA OUTLET
- TELEPHONE TERMINAL BOARD
- TELEPHONE TERMINAL CABINET
- ® HOOD CONNECTION
- THERMOSTAT DAMPER MOTOR

### POWER DISTRIBUTION

SWITCHBOARD OR EQUIPMENT ENCLOSURE

- ELECTRICAL PANEL
- ---- SMITCH AND FUSE >--- PULLOUT FUSED DISCONNECT
- CIRCUIT BREAKER
- OVERLOAD RELAY
- TVSS TRANSIENT VOLTAGE SURGE SUPPRESSER
- NF | NON-FUSED DISCONNECT SWITCH
- ☐ FUSED DISCONNECT SMITCH
- MAGNETIC STARTER OR CONTACTOR
- MORMO ELECTRIC METER UTILITY METER U.O.N.
- CURRENT TRANSFORMER
- MOTOR TRANSFER SMITCH
- GENERATOR
- J/B OR ① JUNCTION BOX CIRCUIT RUN CONCEALED IN WALL OR CEILING
- /-- CIRCUIT RUN IN OR UNDER FLOOR OR IN EARTH
- ✓ ⁻ ✓ CIRCUIT RUN SURFACE MOUNTED ✓ ✓ CONDUIT UP, CONDUIT DOWN
- FLEXIBLE CONNECTION TO EQUIPMENT
- --- OR --- HOMERUN ARROWS INDICATE # OF PHASE COND. GROUNDING ELECTRODE
  - PAD MOUNTED TRANSFORMER
  - TRANSFORMER OVERHEAD SERVICE ENTRANCE

DESIGNATIONS MECHANICAL EQUIPMENT REVISION TAG

X DETAIL NOTE

XXX KITCHEN EQUIPMENT

RECESSED FLUORESCENT SURFACE FLUORESCENT

HO→ FLUORESCENT STRIP LIGHT LIGHT - TYPE INDICATED ON SCHEDULE LIGHT - TYPE INDICATED ON SCHEDULE

TRACK LIGHT O SURFACE OR PENDANT MOUNTED FIXTURE

Ø OR ☐ RECESSED FIXTURE Ø OR ■ RECESSED WALL WASHER HO OR HI WALL MOUNTED FIXTURE

**8** KEYLESS PORCELAIN LAMP HOLDER - 150W BATTERY PACK EMERGENCY LIGHT **BATTERY PACK EXIT LIGHT** 

ORNL INDICATES NON-SMITCHED NIGHT LIGHT EM INDICATES INTEGRAL EMERGENCY POWER BATTERY IPPERCASE LETTER ADJACENT TO FIXT. INDICATES FIXTURE TYPE LOWERCASE LETTER ADJACENT TO FIXT. INDICATES CONTROL

BATTERY PACK EXIT/EM COMBINATION LIGHT

### FIRE ALARM & DETECTION

- OR ② SMOKE DETECTOR FOR ON HEAT DETECTOR (F-FIXED TEMP, R-RATE-OF-RISE)
- 95 SINGLE STATION SMOKE DETECTOR WITH SOUNDER XXXCd SINGLE STATION SMOKE DET. WITH HORN & STROBE
- BEAM DETECTOR TRANSMITTER
- BEAM DETECTOR RECEIVER
- ② DUCT DETECTOR /F5/ MOTOR OPERATED FIRE/SMOKE DAMPER
- F5 FLOW SWITCH TS TAMPER SMITCH
- PRESSURE SWITCH MD OR DH MAGNETIC DOOR HOLDER
- ✓ MANUAL PULLSTATION SPEAKER AND STROBE
- SPEAKER
- ME HORN AND STROBE HORN
- D- STROBE MINI-HORN AND STROBE
- MINI-HORN
- REMOTE INDICATING LIGHT FIRE ALARM CONTROL PANEL
- FAAP FIRE ALARM ANNUNCIATOR PANEL
- ERSP ELEVATOR RECALL SUPERVISORY PANEL
- BPS BOOSTER POWER SUPPLY EOL END-OF-LINE RESISTOR
- RTS REMOTE TEST SMITCH O/C/A OPEN/CLOSE/AUTOMATIC SMITCH

### ABBREVIATIONS

- AC ABOVE COUNTER
- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE AFI/AFCI ARC-FAULT CIRCUIT INTERRUPTER
- AIC AMPERE INTERRUPTING CAPACITY (MINIMUM RATING)
- CD CORD DROP
- CLG CEILING MOUNTED E/(E) EXISTING
- FLR FLOOR MOUNTED
- G/GND GROUND
- GFI/GFCI GROUND-FAULT CIRCUIT INTERRUPTER
- IG ISOLATED GROUND
- ISC AVAILABLE FAULT CURRENT (RMS SYMMETRICAL)
- ILT LET-THROUGH FAULT CURRENT (RMS SYMMETRICAL)
- O.C. ON CENTER
- R/(R) RELOCATE TL TWIST-LOCK

MP MEATHER PROOF

- UC UNDER COUNTER
- UON UNLESS OTHERWISE NOTED

### ELECTRICAL NOTES

### GENERAL REQUIREMENTS

REFERENCE THE SPECIFICATION BOOK PREPARED FOR THIS PROJECT FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

DRAMINGS ARE DIAGRAMMATIC AND DO NOT INDICATE ALL FITTINGS, JUNCTION BOXES, ETC. REQUIRED. PROVIDE ALL REQUIRED EQUIPMENT, CONDUIT, FITTINGS, MIRING, BOXES, ETC. FOR A COMPLETE AND OPERATIONAL INSTALLATION.

MORK AND EQUIPMENT SHALL COMPLY WITH STATE AND LOCALLY ADOPTED CODES AND STANDARDS, INCLUDING THE NATIONAL ELECTRICAL CODE (NEC.), INTERNATIONAL CODES (I-CODES), AND LOCAL AMENDMENTS.

ANYTHING DRAWN OR SPECIFIED SHALL NOT BE CONSTRUED TO CONFLICT WITH STATE AND LOCALLY ADOPTED CODES AND STANDARDS, INCLUDING THE NATIONAL ELECTRICAL CODE, WHICH GOVERNS THE INSTALLATION OF ANY ELECTRICAL MORK. ITEMS SHALL NOT BE INSTALLED IN CONFLICT WITH THE NEC. RESOLVE ANY AND ALL CONFLICTS PRIOR INSTALLATION

BECOME THOROUGHLY ACQUAINTED WITH THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. EXAMINE ALL SERVICES, EQUIPMENT, AND EXISTING CONDITIONS, WHICH THIS WORK IS IN ANY MAY DEPENDENT UPON, AND BRING ANY DISCREPANCIES OR OMISSIONS FOUND IN THE DRAWINGS TO THE ELECTRICAL ENGINEER'S ATTENTION PRIOR TO SUBMITTING BID.

THE LOCATION OF OUTLETS AND EQUIPMENT SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE ARCHITECT OR ENGINEER SHALL HAVE THE RIGHT TO ADJUST THE LOCATION OF OUTLETS OR FIXTURES BEFORE THEY ARE INSTALLED AND MITHOUT ADDITIONAL COST.

PROVIDE DRAWINGS TO LOCAL BUILDING AUTHORITY AND OBTAIN A PERMIT PRIOR TO STARTING ANY MORK

NOTIFY ELECTRICAL ENGINEER OF ANY CHANGES REQUESTED BY THE LOCAL BUILDING AUTHORITY IMMEDIATELY AND PRIOR TO STARTING WORK.

VERIFY AND COMPLY WITH UTILITY COMPANY REQUIREMENTS. PROVIDE METERING, CONNECTION CABINETS, CT CABINETS, AND TRANSFORMER AND CONNECTION CABINET PADS PER LOCAL UTILITY COMPANY REQUIREMENTS.

PROVIDE A REDLINED AS-BUILT SET OF ELECTRICAL DRAWINGS TO OWNER UPON COMPLETION OF MORK.

ELECTRICAL WORK SHOWN LIGHT OR MARKED "E" IS EXISTING, SHOWN DARK IS NEW, AND SHOWN DASHED IS EXISTING TO BE REMOVED OR RELOCATED UNLESS OTHERWISE INDICATED. DASHING MAY ALSO INDICATE UNDER FLOOR OR UNDER GROUND CONDUIT. IF UNCLEAR, CONTACT ELECTRICAL ENGINEER FOR

EQUIPMENT, WIRING, AND DEVICES SHOWN ARE NEW.

### REFERENCE ARCHITECTURAL DRAWINGS FOR ADDITIONAL NOTES.

INSTALL EQUIPMENT AND DEVICES PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. NOTIFY ELECTRICAL ENGINEER PRIOR TO INSTALLING EQUIPMENT AND DEVICES IF MANUFACTURER'S INSTALLATION INSTRUCTIONS CONFLICT WITH ELECTRICAL INFORMATION ON THE THESE DRAWINGS.

ELECTRICALLY OPERATED EQUIPMENT SHOWN ON PLANS AND NOT CIRCUITED ON THE ELECTRICAL PLANS WILL REQUIRE ELECTRICAL SERVICE. CONTACT ELECTRICAL ENGINEER FOR CONNECTION REQUIREMENTS AND CLARIFICATION PRIOR TO BID. THE COST FOR THIS MORK SHALL BE INCLUDED IN THE BID.

### SUBMITTALS AND SUBSTITUTIONS

PROVIDE PRODUCT DATA SHEETS AND SHOP DRAWINGS FOR EQUIPMENT, FIXTURES, AND DEVICES TO ELECTRICAL ENGINEER PRIOR TO PURCHASING. REVIEW, STAMP AND INITIALED ALL ELECTRICAL SUBMITTALS AND SHOP DRAWINGS CERTIFYING THAT THE SUBMITTALS HAVE BEEN REVIEWED PRIOR TO SUBMITTING TO ELECTRICAL ENGINEER FOR REVIEW.

EQUIPMENT AND FIXTURES SPECIFIED REPRESENT REQUIRED QUALITY AND

PROVIDE PRODUCT DATA SHEETS AND SHOP DRAWING OF PROPOSED SUBSTITUTIONS TO SPECIFIED EQUIPMENT TO ELECTRICAL ENGINEER FOR REVIEW. ELECTRICAL ENGINEER SHALL DETERMINE THE ACCEPTABILITY OF SUBSTITUTIONS TO SPECIFIED EQUIPMENT. REVIEW, STAMP AND INITIALED ALL ELECTRICAL SUBMITTALS AND SHOP DRAWINGS CERTIFYING THAT SUBMITTALS HAVE BEEN REVIEWED PRIOR TO SUBMITTING TO ELECTRICAL ENGINEER FOR REVIEW.

### REQUESTS FOR MODIFICATIONS TO THE CONTRACT (CHANGE ORDERS)

REQUESTS BY CONTRACTOR FOR ADDITION OR REDUCTION TO THE CONTRACT AMOUNT SHALL BE ACCOMPANIED BY THE FOLLOWING FOR EVALUATION BY THE

- OWNER AND ENGINEER:
- ORIGIN AND DATE OF CLAIM QUANTITIES OF PRODUCTS, LABOR, AND EQUIPMENT
- DOLLAR AMOUNT OF TAXES, OVERHEAD, AND PROFIT JUSTIFICATION FOR ANY CHANGE IN CONTRACT TIME
- CREDIT AMOUNT FOR DELETIONS (WITH DOCUMENTATION) DATES AND TIMES OF WORK PERFORMED, AND BY WHOM
- TIME RECORDS AND WAGE RATES PAID INVOICES AND RECEIPTS FOR PRODUCTS AND EQUIPMENT

SUBMIT ALL DOCUMENTATION TO ENGINEER AND OWNER AND OBTAIN WRITTEN APPROVAL PRIOR TO STARTING ANY WORK THAT AFFECTS THE CONTRACT AMOUNT OR COMPLETION DATE.

### COORDINATION

THE ELECTRICAL DRAWINGS ARE ONLY ONE PART OF A COMPLETE SET OF CONSTRUCTION DOCUMENTS. EXAMINE THE ARCHITECTURAL, MECHANICAL, PLUMBING, AND CIVIL DRAWINGS PRIOR SUBMITTING BID AND STARTING WORK TO DETERMINE THE FULL EXTENT OF ELECTRICAL WORK REQUIRED.

COORDINATE WORK WITH OTHER TRADES PRIOR TO ROUGH-IN. COORDINATION SHALL INCLUDE REVIEWING THE ARCHITECTURAL, MECHANICAL, PLUMBING, ETC. DRAWINGS AND SHOP DRAWINGS PRIOR TO BID AND CONSTRUCTION.

THE FINAL LOCATION OF EQUIPMENT SHALL BE COORDINATED IN THE FIELD, PRIOR TO ROUGH-IN, TO MEET APPLICABLE LOCATION, HEIGHT AND CLEARANCE

OBTAIN AND REVIEW SHOP DRAWINGS, PRODUCT DATA, MANUFACTURER'S WIRING DIAGRAMS AND MANUFACTURER'S INSTRUCTIONS FOR EQUIPMENT PROVIDED BY

### MIRING AND CONDUIT

NEM MIRING SHALL BE THHN/THMN-2, 75°C INSULATED COPPER UNLESS OTHERWISE NOTED. ALUMINUM CONDUCTORS SHALL BE XHHM-2, 75°C INSULATED COMPACT

THE CONDUCTORS FOR 15A AND 20A BRANCH CIRCUITS SHALL BE #12 THHN/THWN-2, 75°C INSULATED COPPER. 15A BRANCH CIRCUITS IN DWELLING UNITS MAY BE #14 THHN/THWN-2, 75°C INSULATED COPPER.

BRANCH-CIRCUIT CONDUCTORS GREATER THAN 20A SHALL BE AS INDICATED ON PLANS OR REQUIRED PER CODE.

CONDUCTOR INSULATION SHALL BE COLOR CODED AS FOLLOWS:

208/120V, 30: PHASE: A - BLACK; PHASE B - RED; PHASE C - BLUE 480/277V, 30: PHASE A - BROWN; PHASE B - ORANGE; PHASE C - YELLOW 20 AMPERE BRANCH CIRCUIT HOMERUNS OVER 75' SHALL BE #10AMG CU AND

OVER 150' SHALL BE #8AMG CU. THE MAXIMUM NUMBER OF CONDUCTORS IN A CONDUIT FOR A 3Φ SYSTEM SHALL BE THREE (ΑΦ, ΒΦ, CΦ), NOT INCLUDING NEUTRAL AND EQUIPMENT GROUNDING CONDUCTORS, UNLESS OTHERWISE INDICATED. CONDUIT SIZE SHALL BE BASED UPON NEC CHAPTER 9 AND ANNEX C. MORE THAN 3 CURRENT-CARRYING CONDUCTORS MAY BE INSTALLED IN A RACEWAY IF THE APPROPRIATE AMPACITY DERATING FACTORS ARE APPLIED.

PROVIDE AN INSULATED EQUIPMENT GROUNDING CONDUCTOR WITH ALL FEEDERS

AND BRANCH-CIRCUIT MIRING.

INCREASE CONDUIT SIZE AS REQUIRED TO ACCOMMODATE EQUIPMENT GROUNDING

CONDUIT SHALL BE CONCEALED IN WALLS, FLOOR OR CEILING IN FINISHED AREAS UNLESS OTHERWISE INDICATED.

THE TYPE OF CONDUIT SHALL BE AS FOLLOWS FOR ALL FEEDERS AND BRANCH CIRCUITS, UNLESS OTHERWISE SPECIFIED OR REQUIRED. REFERENCE THE NEC FOR ADDITIONAL APPLICATION REQUIREMENTS.

APPLICATION
IN CONCRETE OR MASONRY OUTDOORS (ABOVE GRADE) EMT OR GRC BRANCH CIRCUITS (EXPOSED) EMT OR GRC BRANCH CIRCUITS (CONCEALED) MC CABLE OR EMT SUPPLY TO DISTRIBUTION PANELS EMT OR GRC UNDERGROUND PVC SCHED. 40 OR 80 AS REQ'D

FINAL CONNECTIONS TO MECHANICAL OR VIBRATING EQUIPMENT, SUCH AS MOTORS AND TRANSFORMERS, SHALL BE MADE WITH FLEXIBLE METAL CONDUIT. FINAL CONNECTIONS TO LIGHT FIXTURES SHALL BE MADE WITH FLEXIBLE METAL CONDUIT MITH A MAXIMUM LENGTH OF 6'.

### PROVIDE PVC COATED GRC FOR ELBOWS IN PVC CONDUIT RUNS.

ALL CONDUITS AND CABLES PASSING THROUGH RATED WALLS, FLOORS OR CEILINGS SHALL BE FIRE STOPPED WITH APPROVED FIRE BARRIER CAULK. INSTALL CAULK PER MANUFACTURE'S INSTRUCTIONS AND MAINTAIN THE RATING OF THE WALL, FLOOR OR CEILING BEING PENETRATED.

PROVIDE HEAVY-DUTY GRADE SWITCHES AND RECEPTACLES.

PROVIDE DEVICES AS INDICATED BELOW. DEVICE AND FACEPLATE COLOR SHALL BE AS SPECIFIED BY THE ARCHITECT OR TO MATCH EXISTING.

DEVICE	MANUFACTURER	MODEL NUMBER
15A RECEPTACLE (125V)	HUBBELL	HBL5262 (COLO
20A RECEPTACLE (125V)	HUBBELL	HBL5362 (COLO
20A GFI RECEPTACLE (125V)	HUBBELL	GF5362 (COLOR
20A IG RECEPTACLE (125V)	HUBBELL	165362 (ORANG
15A CLOCK RECEPT (125V)	HUBBELL	HBL5235
1-POLE SMITCH	HUBBELL	HBL1221 (COLO
3-MAY SMITCH	HUBBELL	HBL1223 (COLO
4-MAY SMITCH	HUBBELL	HBL1224 (COLO
WALL OCCUPANCY SENSOR	WATT STOPPER	DW-100
CLG OCCUPANCY SENSOR	MATT STOPPER	MT ULTRASONIC
		MITH BZ 100
INCANDESCENT DIMMER	LUTRON	NOVA SERIES
FLUORESCENT DIMMER	LUTRON	NOVA SERIES

PROVIDE HUBBELL RECEPTACLES WITH THE APPROPRIATE NEMA CONFIGURATION FOR RECEPTACLES SHOWN ON THE ELECTRICAL PLAN.

PROVIDE WIRING DEVICES AS MANUFACTURED BY HUBBELL, PASS AND SEYMOUR, LEVITION, WATT STOPPER, LUTRON OR ACCEPTABLE EQUAL.

COORDINATE MOUNTING HEIGHTS OF SMITCHES, RECEPTACLES, PHONE OUTLETS, DATA OUTLETS, TV OUTLETS, AND LIGHT FIXTURES WITH ARCHITECTURAL DRAWINGS. THE MOUNTING HEIGHT FOR DEVICES SHALL BE AS INDICATED BELOW, UNLESS

OTHERWISE NOTED. MOUNTING HEIGHTS ARE TO CENTER OF DEVICE, UNLESS

OTHERWISE NOTED. MATCH MOUNTING HEIGHT OF EXISTING DEVICES IF APPLICABLE. GENERAL RECEPTACLES (COMMERCIAL) @ 18" AFF ABOVE COUNTER RECEPTACLES AND SWITCHES @ 2" ABOVE COUNTER OR BACKSPLASH TO BOTTOM OF DEVICE (COORDINATE WITH ARCHITECT) LIGHT SMITCHES @ 48" AFF TELEPHONE OUTLETS @ 18" AFF TELEPHONE OUTLET (WALL MTD) 54" AFF

DATA/PHONE OUTLETS (COMMERCIAL) @ 18" AFF PROVIDE "IN-USE" MEATHERPROOF COVER FOR EXTERIOR RECEPTACLES.

CLOCK OUTLETS @ 7'-6" AFF

TV OUTLETS (COMMERCIAL) @ 18" AFF

COMPLY WITH ADA STANDARDS FOR MOUNTING HEIGHTS AND LOCATIONS.

### DEVICES IN THE SAME LOCATION AND AT THE SAME MOUNTING HEIGHT SHALL BE MOUNTED UNDER A COMMON WALL PLATE.

OR SWITCHES IN ALL AVAILABLE SPACES.

BELOW, UNLESS OTHERWISE NOTED.

MECHANICAL EQUIPMENT

DISTRIBUTION EQUIPMENT PROVIDE DISTRIBUTION PANELS, DISCONNECTS, CONTACTORS, ETC. OF VOLTAGE,

AMPERAGE, PHASE, AND SHORT CIRCUIT RATINGS AS INDICATED ON PLANS.

ENCLOSURES FOR EQUIPMENT AND DEVICES SHALL BE SUITABLE FOR THE

FUSES SPECIFIED ARE AS MANUFACTURED BY BUSSMANN. THE SAME CLASS OF FUSE AS MANUFACTURED BY LITTELFUSE AND GOULD-SHAWMUT MAY BE SUBSTITUTED.

INSTALLED LOCATION. PROVIDE 3 5/8" DEEP LOAD CENTERS FOR PANELS INSTALLED IN 4" STUD WALLS. PROVIDE PANELBOARDS FOR ALL OTHER INSTALLATIONS, UNLESS OTHERWISE

SPACE FOR EACH (3) SPARE BREAKERS AND SPACES IN PANELBOARDS AND LOAD CENTERS THAT ARE RECESSED IN A WALL. PROVIDE PANELS AND SWITCHBOARDS BUSSED TO ACCOMMODATE BREAKERS

PROVIDE A 3/4"C FROM PANEL ENCLOSURES TO NEAREST ACCESSIBLE CEILING

PROVIDE DISTRIBUTION EQUIPMENT AS MANUFACTURED BY AMERICAN MIDWEST POWER, SQUARE D, CUTLER-HAMMER, SIEMENS, ERICKSON ELECTRIC, GE OR

THE MOUNTING HEIGHT FOR DISTRIBUTION EQUIPMENT SHALL BE AS INDICATED

PANELS/LOADCENTERS - 6' AFF MAX TO CENTER OF TOP HANDLE CT CANS - 2' AFF MIN, 6' AFF MAX TO CENTER OF CTS DISCONNECT SMITCHES - 6'-6" AFF MAX TO CENTER OF HANDLE

SINGLE UTILITY METER - 4' MIN, 6' MAX TO CENTER OF METER

PROVIDE A TYPED PANEL SCHEDULE WITH LOAD DESCRIPTIONS FOR PANELS.

PROVIDE A PHENOLIC LABEL ON PANEL INDICATING THE PANEL NAME.

PROVIDE 30A LIGHTING CONTACTOR WITH NUMBER OF POLES AS REQUIRED FOR LIGHTING CONTROLLED BY A TIME SMITCH OR PHOTOCELL.

TIME SMITCH: TORK EM 103 TIME SMITCH MITH PHOTOCELL: TORK DGLC SERIES

THE COST FOR THIS WORK SHALL BE INCLUDED IN THE BID.

OF MECHANICAL EQUIPMENT. ELECTRICALLY OPERATED EQUIPMENT SHOWN ON THE MECHANICAL PLANS AND NOT SHOWN ON THE ELECTRICAL PLANS WILL REQUIRE ELECTRICAL SERVICE. CONTACT ELECTRICAL ENGINEER FOR CONNECTION REQUIREMENTS PRIOR TO BID.

VERIFY MECHANICAL EQUIPMENT NAMEPLATE DATA (VOLTAGE, PHASE, FLA, MCA,

REFERENCE MECHANICAL DRAWINGS FOR EXACT LOCATION AND REQUIREMENTS

MOCP, ETC.) PRIOR TO ROUGH-IN. NOTIFY ELECTRICAL ENGINEER IN WRITING OF ANY DISCREPANCIES WITH THESE DRAWINGS IMMEDIATELY AND PRIOR TO COMMENCING ANY FURTHER MORK.

MECHANICAL CONTRACTOR SHALL PROVIDE STARTERS FOR MECHANICAL

MECHANICAL CONTRACTOR SHALL PROVIDE CONDUIT, WIRE, AND DEVICES FOR MECHANICAL EQUIPMENT CONTROLS, UNLESS OTHERWISE INDICATED ON THE ELECTRICAL DRAWINGS.

ELECTRICAL CONTRACTOR SHALL PROVIDE MECHANICAL EQUIPMENT CONTROL MIRING, CONDUIT, AND DEVICES IF INDICATED ON THE ELECTRICAL DRAWINGS. NOTIFY ELECTRICAL ENGINEER IN WRITING OF ANY DISCREPANCIES WITH THESE DRAWINGS IMMEDIATELY AND PRIOR TO COMMENCING ANY FURTHER WORK.

REFERENCE MECHANICAL DRAWINGS FOR LOCATIONS OF FIRE SMOKE DAMPERS AND CONTROL REQUIREMENTS OF MECHANICAL EQUIPMENT. PROVIDE 120V TO FIRE SMOKE DAMPERS AND PROVIDE EITHER DUCT OR SMOKE DETECTORS AS REQUIRED. CONNECT DETECTORS TO FIRE ALARM SYSTEM IF APPLICABLE. MECHANICAL (RETURN AIR) UNITS OVER 2000CFM REQUIRE A SMOKE DETECTOR TO SHUT UNIT OFF UPON ACTIVATION OF SMOKE DETECTOR. CONNECT DETECTORS TO FIRE ALARM SYSTEM IF APPLICABLE.

### TELEPHONE, DATA, AND CABLE OUTLETS

PROVIDE A 4"X4" JUNCTION BOX WITH PLASTER RING AND A 3/4" CONDUIT WITH PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE FOR EACH WALL MOUNTED PHONE, DATA, AND CABLE OUTLET.

PROVIDE A FLUSH FLOOR BOX WITH PLASTER RING AND A 3/4" CONDUIT WITH PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE FOR EACH FLOOR MOUNTED PHONE, DATA, AND CABLE OUTLET.

### KITCHEN REQUIREMENTS

ORDERING THE LIGHT FIXTURES.

TELEPHONE SERVICE

STARTING ANY WORK.

REFERENCE ARCHITECTURAL AND KITCHEN EQUIPMENT DRAWINGS FOR EXACT LOCATION AND REQUIREMENTS OF KITCHEN EQUIPMENT. VERIFY KITCHEN EQUIPMENT NAMEPLATE DATA (VOLTAGE, PHASE, FLA, MCA, MOCP, ETC.) PRIOR TO

PROVIDE GFI RECEPTACLES FOR 125V, 15A AND 20A RECEPTACLES IN KITCHENS. NOTIFY ELECTRICAL ENGINEER OF ANY DISCREPANCIES WITH THESE DRAWINGS.

PROVIDE LIGHT FIXTURES AND INDICATED ON LIGHTING PLAN OR FIXTURE SCHEDULE.

REFERENCE ARCHITECTURAL DRAWINGS FOR LUMINAIRE SCHEDULE. NOTIFY

ELECTRICAL ENGINEER OF ANY DISCREPANCIES WITH THESE DRAWINGS.

THE MOUNTING HEIGHT FOR LIGHT FIXTURES SHALL BE AS INDICATED ON THE FIXTURE SCHEDULE, ARCHITECTURAL ELEVATIONS OR AS SHOWN BELOW, UNLESS OTHERWISE NOTED. MATCH MOUNTING HEIGHT OF EXISTING LIGHT FIXTURES IF APPLICABLE.

EXIT LIGHTS (WALL MTD) 2" ABOVE DOOR FRAME (TO BOTTOM)

EXIT LIGHTS @ 7'-6" AFF TO BOTTOM EMERGENCY LIGHTS @7'-6" AFF PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH LIGHTING CIRCUIT AND

PROVIDE ONE SAMPLE OF EACH LIGHT FIXTURE FOR REVIEW BY THE ARCHITECT, ELECTRICAL ENGINEER AND OWNER OR OWNER'S REPRESENTATIVE PRIOR TO

ELECTRIC UTILITY COMPANY SUBMIT ELECTRICAL DRAWINGS AND SERVICE APPLICATION TO ELECTRIC UTILITY COMPANY PRIOR TO STARTING ANY WORK.

AND TEMPORARY ELECTRICAL SERVICE TO BE PROVIDED TO THE SITE AS OBTAIN WRITTEN APPROVAL FROM THE LOCAL ELECTRIC UTILITY COMPANY INDICATING THAT THE SERVICE DESIGN IS ACCEPTABLE. PROVIDE LETTER TO ELECTRICAL ENGINEER PRIOR TO PURCHASING ANY ELECTRICAL SERVICE EQUIPMENT OR STARTING ANY WORK ON THE ELECTRICAL SERVICE. NOTIFY

ELECTRICAL ENGINEER IMMEDIATELY OF ANY DESIGN CHANGES REQUIRED BY THE

PEDESTAL AND THE SIZE OF THE CONDUIT REQUIRED WITH THE TELEPHONE

COORDINATE WITH THE ELECTRIC UTILITY COMPANY TO ARRANGE FOR PERMANENT

### PROVIDE CONDUIT AS REQUIRED BY THE LOCAL TELEPHONE COMPANY FROM THE TELEPHONE PEDESTAL TO BUILDING. COORDINATE THE LOCATION OF THE

FIRE/SPRINKLER ALARM AND DETECTION SYSTEM FIRE ALARM AND DETECTION SYSTEM IS DESIGN/BUILD BY THE ELECTRICAL CONTRACTOR. FIRE ALARM AND DETECTION SYSTEM SHALL BE DESIGNED BY A LICENSED FIRE PROTECTION ENGINEER. FIRE ALARM AND DETECTION SYSTEM SHOP DRAWINGS SHALL BE PREPARED BY THE SYSTEM SUPPLIER AND SIGNED AND SEALED BY A COLORADO LICENSED PROFESSIONAL ENGINEER. SHOP DRAWINGS SHALL INCLUDE DEVICE LOCATIONS, WIRING DIAGRAM, EQUIPMENT SPECIFICATIONS, BATTERY CALCULATIONS, VOLTAGE DROP CALCULATIONS, SEQUENCE OF OPERATION AND OTHER DETAILS REQUIRED BY THE LOCAL BUILDING DEPARTMENT, IFC AND NFPA 72 WITH LOCAL AMENDMENTS. THE SYSTEM SHALL BE DESIGNED IN ACCORDANCE MITH THE REQUIREMENTS OF THE IBC, IFC, NFPA 72 AND LOCAL CODES AND ORDINANCES. SHOP DRAWINGS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND FIRE DEPARTMENT AS A DEFERRED SUBMITTAL. SHOP DRAWINGS SHALL BE APPROVED PRIOR TO PURCHASING ANY EQUIPMENT OR

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			LIGHTING FI	XTURE SCHE	DULE		
	DESCRIPTION OF L	LUMINAIRE			LUMINAIRE SPECIFICA	TION	
ID	DESCRIPTION	FINISH	MOUNTING INFO	MANUFACTURER	CATALOG NUMBER	LAMP(S)	VOLTAGE
A	RECESSED FLUORESCENT DOWNLIGHT	CLEAR ALZAK	RECESSED	DELRAY	H623.A30.2E	26M TT	277
A-EM	RECESSED FLUORESCENT DOWNLIGHT WITH EMERGENCY BATTERY PACK	CLEAR ALZAK	RECESSED	DELRAY	H623.A30.2E.EM	26M TT	277
В	4' STRIP FLUORESCENT	MHITE	SURACE/CHAIN	COLUMBIA	C54-232-EU	(2)F32T8	277
c	PENDANT LIGHT	PER ARCHITECT	PENTANT TO 8' (VERIFY WITH ARCHITECT)	TERON LIGHTING	MONP36-277E-WAL-BN-35K (VERIFY PENDANT LENGTH WITH ARCHITECT)	(6) 39W FT	277
D	VANITY LIGHT	MHITE	ABOVE MIRROR	OXYGEN	2-5106-24	(2)F28T5	277
F	4' MALL FLUORESCENT	MHITE	7' AFF (VERIFY MITH ARCHITECT)	COLUMBIA	M4-232-EU	(2) F32T8	277
F-EM	4' WALL MOUNTED FLUORESCENT WITH EMERGENCY BATTERY PACK	MHITE	7' AFF (VERIFY WITH ARCHITECT)	COLUMBIA	M4-232-EU-EL	(2)F32T8	277
		EXTE	RIOR LIGHT	ING FIXTURE	SCHEDULE		
	DESCRIPTION OF I	_UMINAIRE			LUMINAIRE SPECIFICA	TION	
ID	DESCRIPTION	FINISH	MOUNTING INFO	MANUFACTURER	CATALOG NUMBER	LAMP(S)	VOLTAGE
AA	POLE MOUNTED FULL CUTOFF MATAL HALIDE ARE LIGHT WITH TYPE IV DISTRIBUTION AND HOUSE SIDE SHIELD	DARK BRONZE	25' POLE	KIM LIGHTING	1AET4/400PMH/DB-P/HS	(1) 400M PMH	277
	MALL CONTES SULL CUTOES						

		-/11					
	DESCRIPTION OF L	UMINAIRE			LUMINAIRE SPECIFICA	ATION	
ID	DESCRIPTION	FINISH	MOUNTING INFO	MANUFACTURER	CATALOG NUMBER	LAMP(S)	VOLTAGE
AA	POLE MOUNTED FULL CUTOFF MATAL HALIDE ARE LIGHT WITH TYPE IV DISTRIBUTION AND HOUSE SIDE SHIELD	DARK BRONZE	25' POLE	KIM LIGHTING	1AET4/400PMH/DB-P/HS	(1) 400W PMH	277
вв	MALL MOUNTED FULL CUTOFF METAL HALIDE MALL MASHER	DARK BRONZE	MALL @ +4 <i>0</i> ' AFF	KIM LIGHTING	MC18DG/150PMH/DB-P	(1) 150M PMH	277
CC	MALL MOUNTED FULL CUTOFF METAL HALIDE NARROW WALL WASHER	DARK BRONZE	WALL @ + 12' AFF	KIM LIGHTING	MC14DG/50PMH/DB-P	(1) 50M PMH	277
	1	EXIT AND EI	MERGENCY	LIGHTING FIX	KTURE SCHEDULE		
	DESCRIPTION OF L	.UMINAIRE			LUMINAIRE SPECIFICA	ATION	

MOUNTING INFO MANUFACTURER

EXITRONIX

EXITRONIX

EXITRONIX

EXITRONIX

SEE PLAN

SEE PLAN

SEE PLAN

SEE PLAN

MHITE

WHITE

SYMB*O*L

(A)

DESCRIPTION

EXIT LIGHT (UNIVERSAL)

EMERGENCY LIGHT

REMOTE EM HEADS

EXIT/EM LIGHT (UNIVERSAL)

6" GROUND BAR (TYPICAL)	TTB LOCATED IN 3RD FLOOR ELECTRICAL CLOSET
(1) 4"C AND (1) 2"C	(1)#6
TELEPHONE————————————————————————————————————	TTB LOCATED IN 2ND FLOOR ELECTRICAL CLOSET  (1) 4"C AND (1) 2"C  (1) #6  TTB LOCATED IN 1ST FLOOR ELECTRICAL CLOSET  (1) #6  (1) #6
1 TELEPHONE RISER DIAGRAM	

NOT TO SCALE

CATALOG NUMBER

GVEXUBPMBMH (ADD "R" IF

POWERING REMOTE HEADS

GVEX-U-BP-MB-MH-EL90

LL5*0*H-12-5*0* 

(2) P4D & (1) MP2-MP

LAMP(S)

INCLUDED

INCLUDED

INCLUDED

INCLUDED

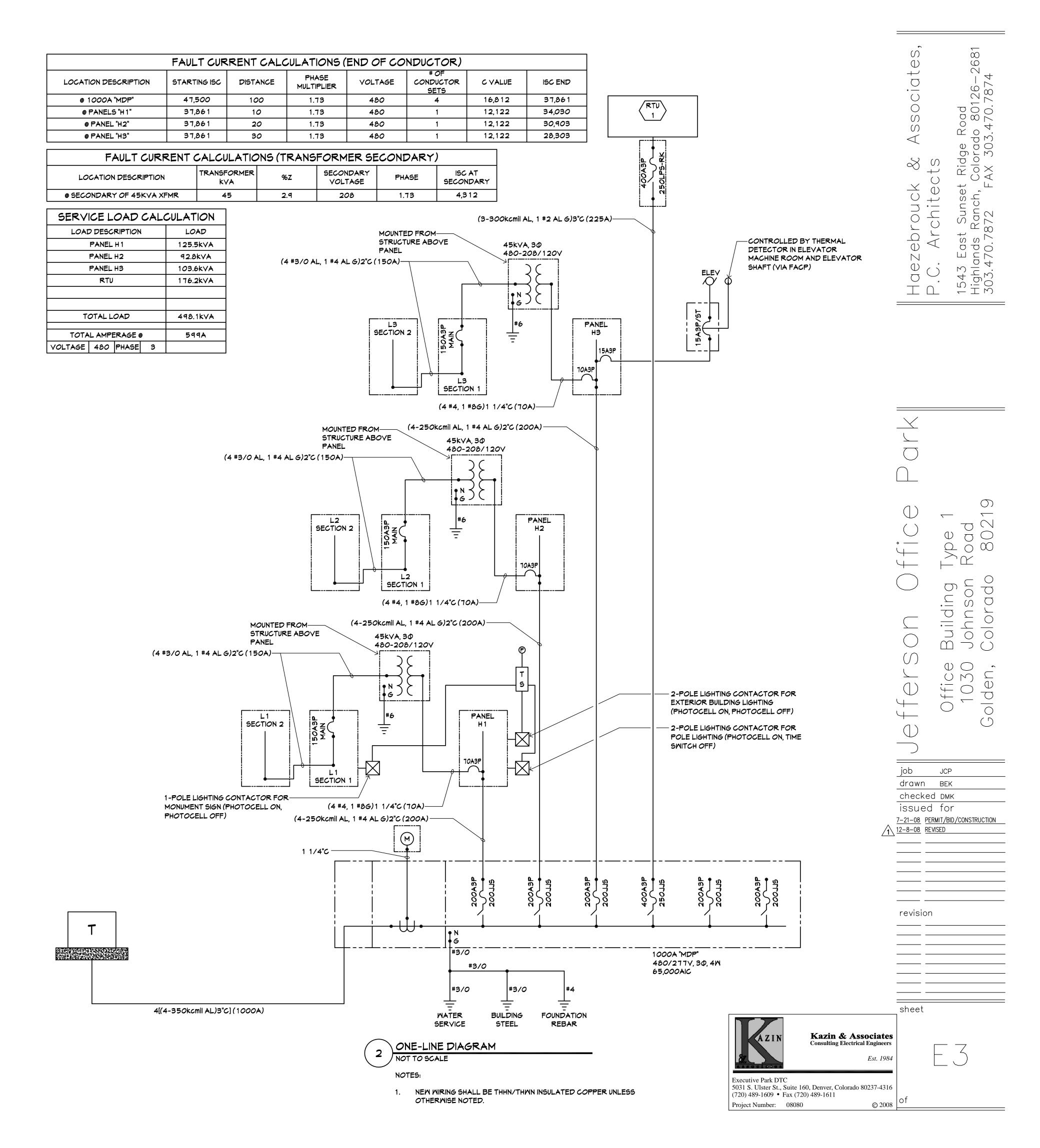
VOLTAGE

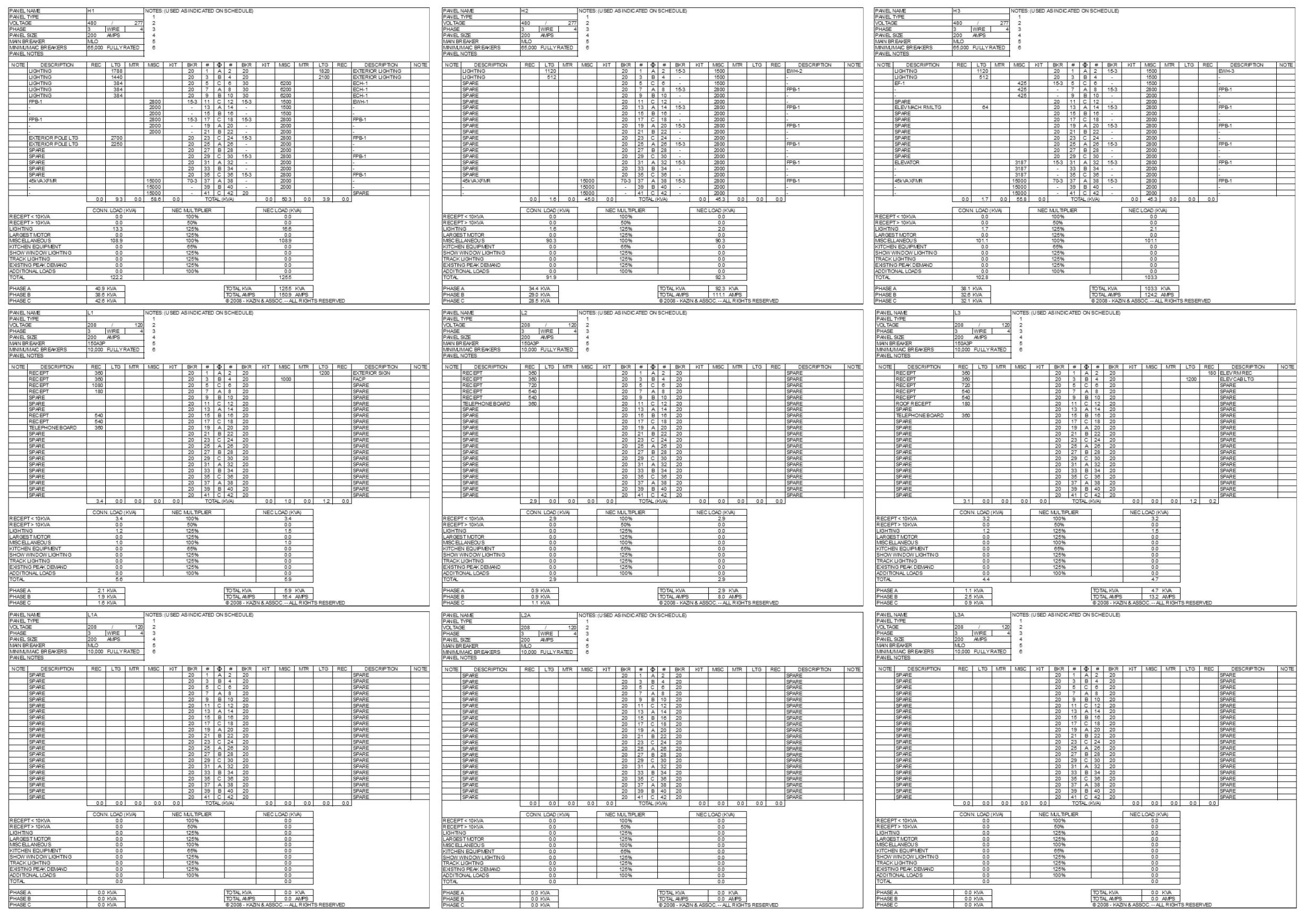
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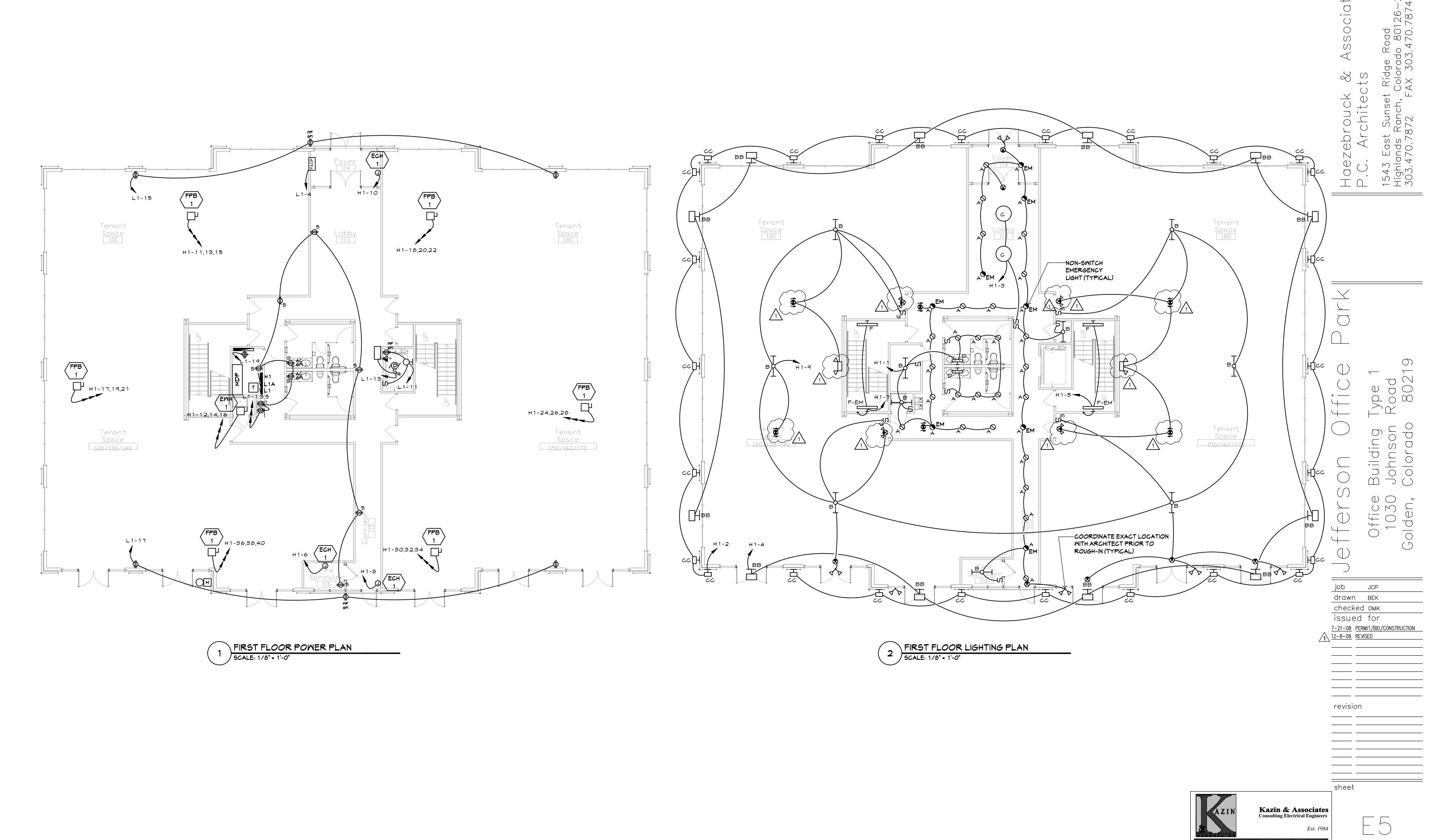
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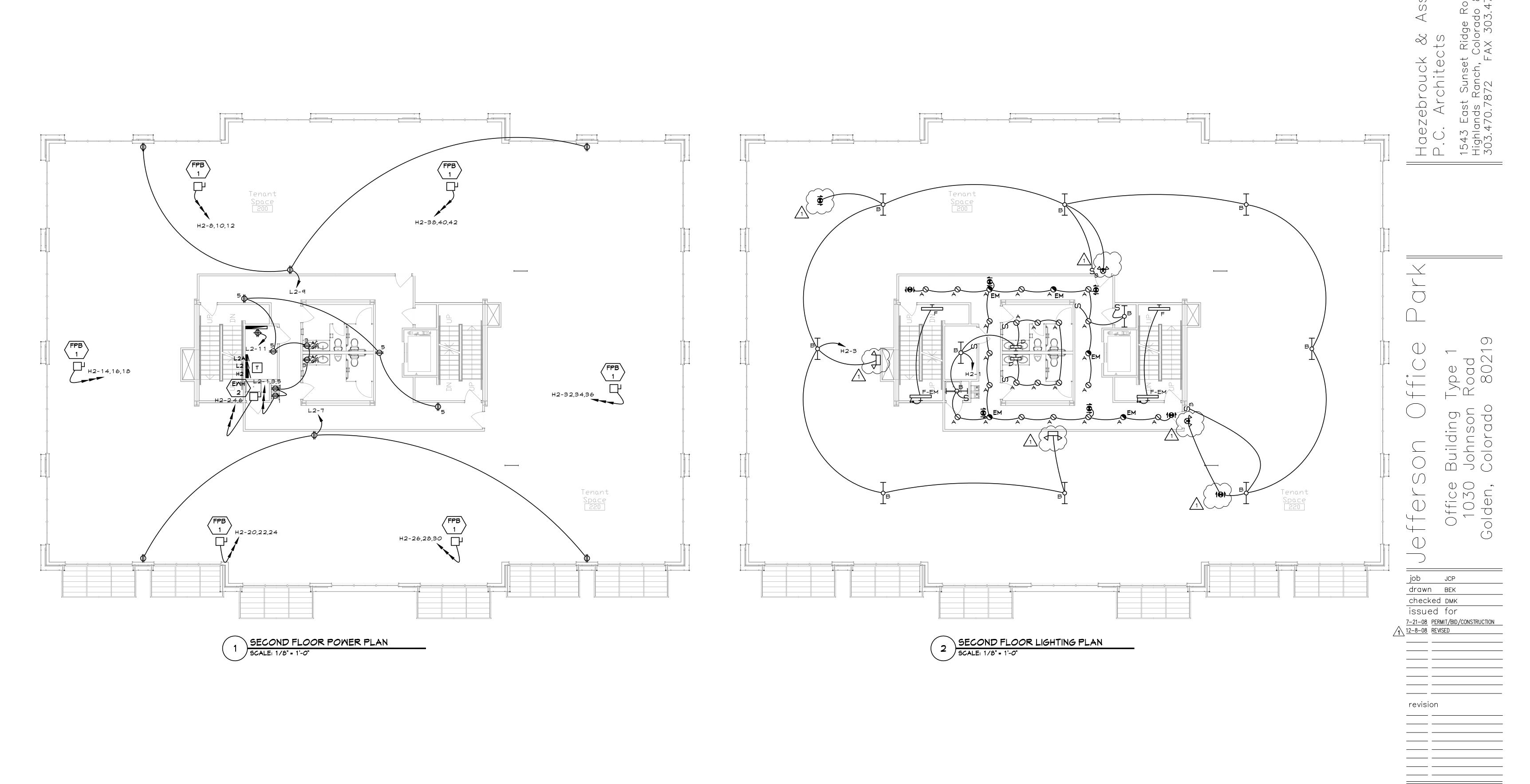
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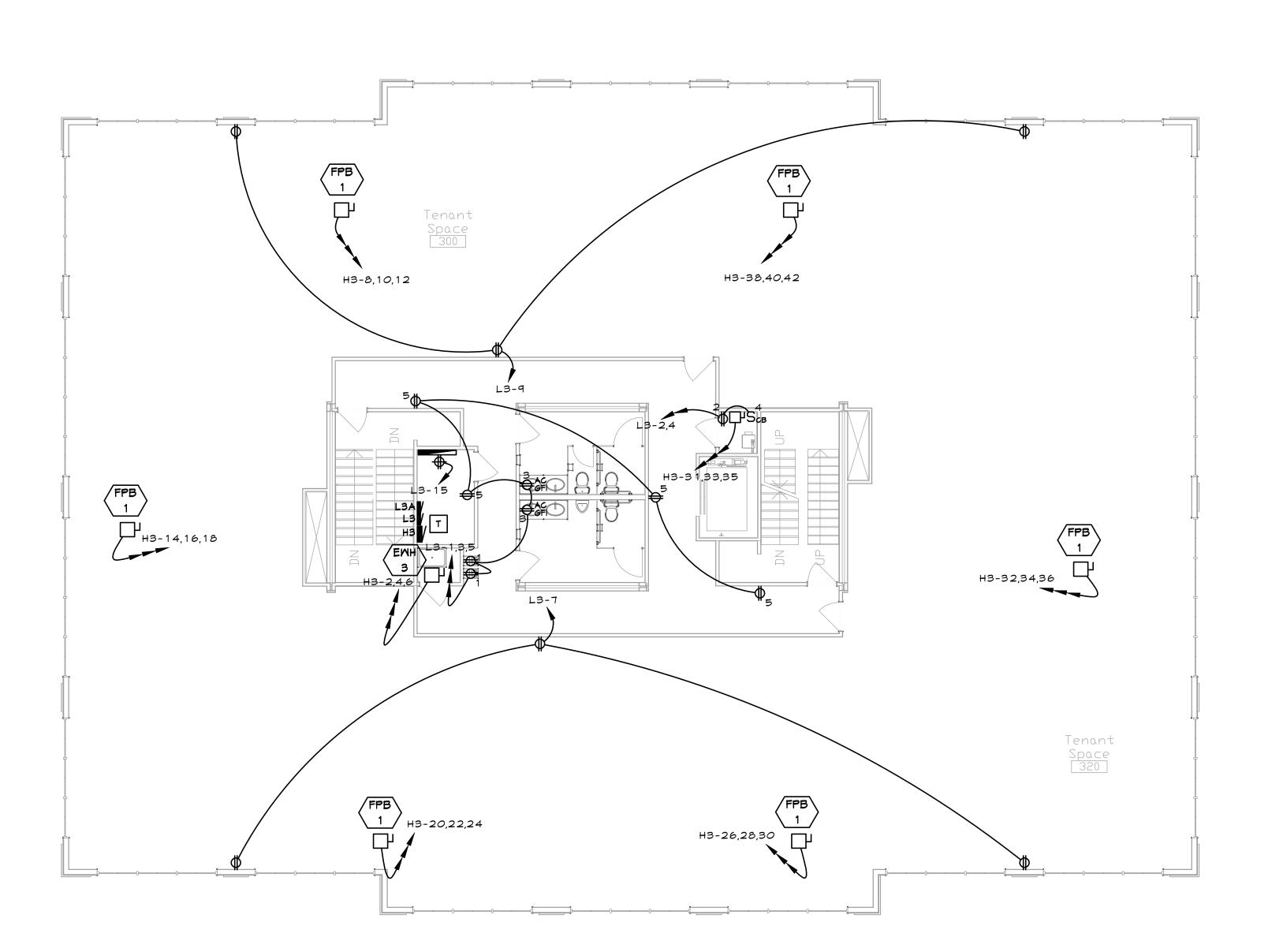
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Terant Plant Plant

1 THIRD FLOOR POWER PLAN

SCALE: 1/8" = 1'-0"

THIRD FLOOR LIGHTING PLAN

SCALE: 1/8" = 1'-0"

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Job JCP

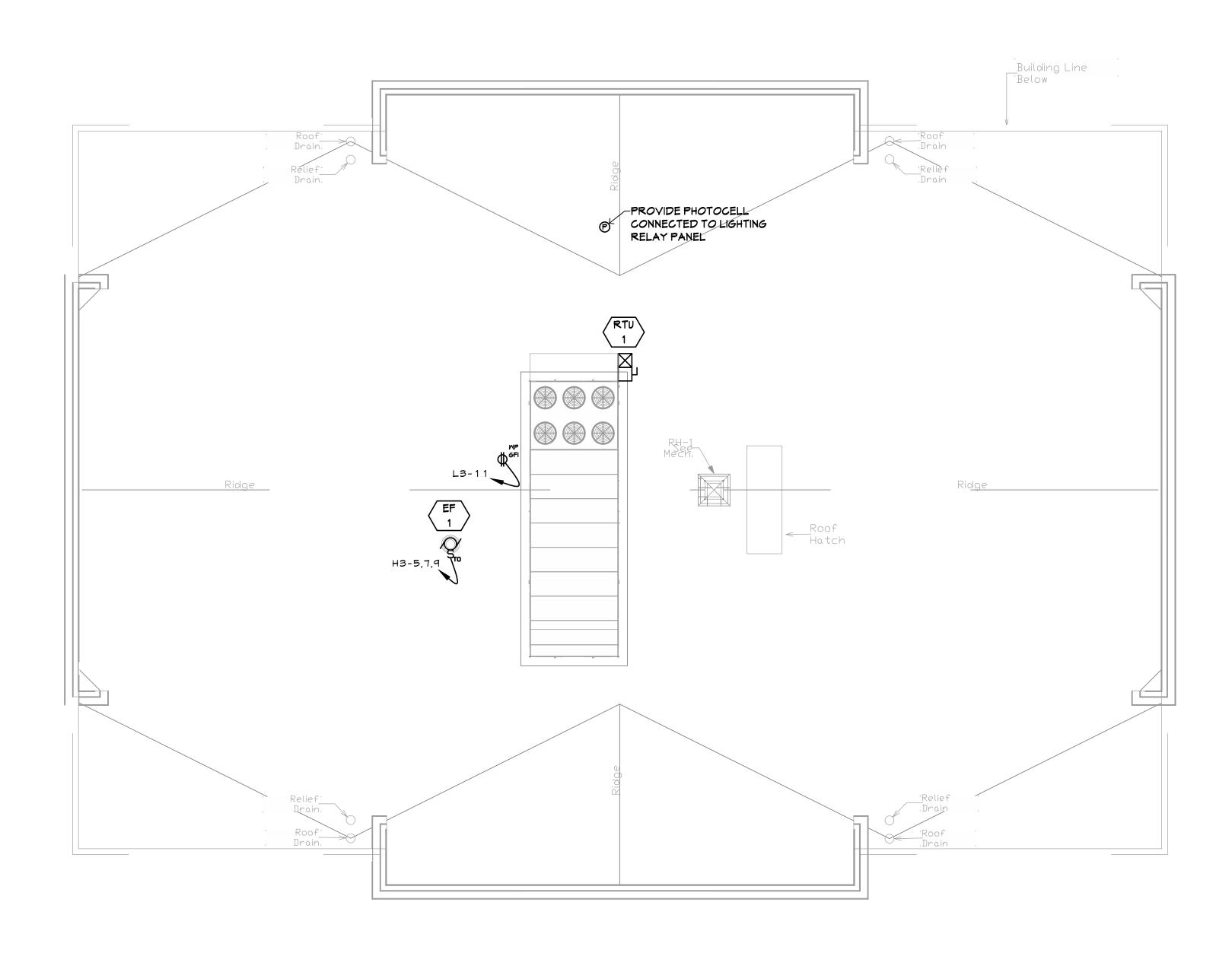
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checked DMK
issued for
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12-8-08 REVISED

COLORADO 80219

revision



job JCP
drawn BEK
checked DMK
issued for
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1 | ROOF POWER PLAN | 5CALE: 1/8" = 1'-0"