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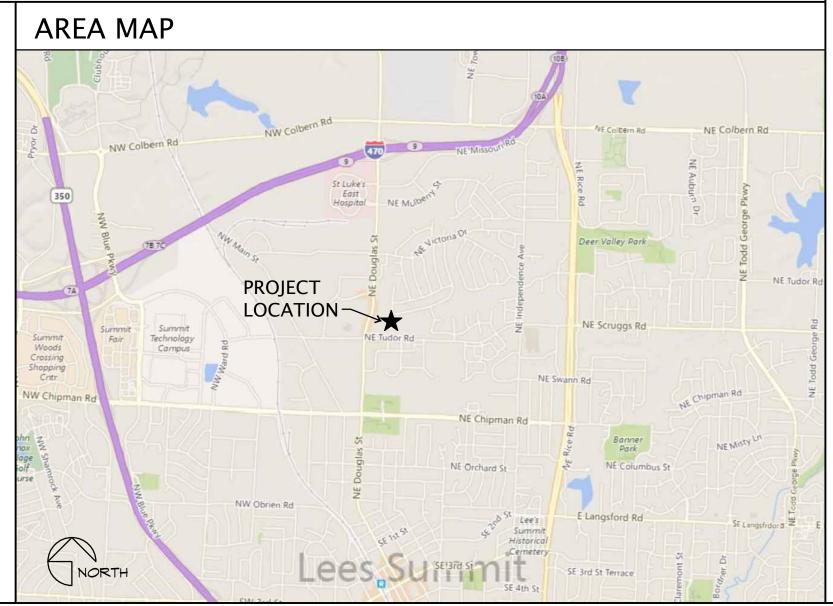
DOUGLAS

CORNER

LOT 1B, LEES SUMMIT, MISSOURI 64086







General Project Information

- Project Information:
 - 1.A) Name: Douglas Corner 1.B) Legal Description: Lot 1B, Lees Summit, Missouri 64086
- **Building Information:**
 - 2.A) Gross Floor Area: 7,820 saft 2.B) Number of stories: 1 story
 - 2.C) Height: 24'-0"

International Building Code Review

- Codes: (As amended by the City of Lees Summit, Missouri)
 - 3.A) 2018 International Building Code
 - 3.B) 2018 International Plumbing Code 3.C) 2018 International Mechanical Code
 - 3.D) 2018 International Fuel Gas Code
 - 3.E) 2018 International Residential Code 3.F) 2018 International Fire Code
 - 3.G) 2017 National Electrical Code
 - 3.H) ICC/ANSI A117.1-2009, Accessible and Usable Buildings and Facilities
 - Use / Occupancy Classification: (Chapter 3)
 - 4.A) Restaurant / A-2 Assembly 4.B) Office / B – Business
 - 4.C) Retail / M Mercantile
 - Nonseparated Occupancies (508.3):
 - 5.A) Allowable building area, height and number of stories (508.3.2): They shall be based on the most restrictive allowances for the occupancy groups under consideration. A-2 Assembly Group is the most restrictive 5.B) Separation (508.3.3): No separation is required between nonseparated occupancies
 - Fire Protection Systems: (Chapter 9)
 - 6.A) An automatic sprinkler system will be provided throughout in accordance with NFPA 13.
 - 6.B) Sprinkler system supervision and alarms (903.4): All valves controlling the water supply for automatic sprinklers systems, pumps, tanks, water levels and temperatures, critical air pressures and water flow switches on all sprinkler systems shall be electrically supervised by a listed fire alarm control unit.
 - 6.C) A manual fire alarm system that activates the occupant notification system in accordance with Section 907.5 shall be installed in Group A occupancies where the occupant load due to the assembly occupancy is 300 or more, or where the Group A occupant load is more than 100 persons above or below the lowest level of exit discharge. Group A occupancies not separated from one another in accordance with Section 7073 10 shall be considered as a single occupancy for the purposes of applying this section. It is not anticipated that tenant finish projects will exceed these conditions. A manual fire alarm system will not be
 - 6.D) Group B (907.2.2): A manual fire alarm system is required when; 1. The combined Group B occupant load of all floors is 500 or more persons, 2. The group M occupant load is more than 100 persons above or below the lowest level of exit discharge, or 3. The fire area contains an ambulatory care facility. It is not anticipated that tenant finish projects will exceed these conditions. A manual fire alarm system will not be
 - 6.E) Group M (907.2.7): A manual fire alarm system is required when; 1. The combined Group M occupant load of all floors is 500 or more persons, and 2. The group Moccupant load is more than 100 persons above or below the lowest level of exit discharge. It is not anticipated that tenant finish projects will exceed these conditions. A manual fire alarm system will not be provided.
- Type of Construction: (Chapter 6) 7.A) Type VB
- Allowable Building Heights and Areas: (IBC Chapter 5)
- 8.A) Allowable Building Height in feet above grade Plane (Table 504.3): A, S = 60ft
- 8.B) Allowable Number of Stories Above Grade Plane (Table 504.4): A-2, S = 2 stories
- 8.C) Allowable Area Factor (Table 506.2): A-2, \$1 = 24,000 sqft 9) Fire-Resistance Rating Requirements for Building Elements: (Tables 601)
- 9.A) Structural Frame: 0 hours 9.B) Bearing Walls Exterior: 0 hours but not less than per Table 602
- 9.C) Bearing Walls Interior: 0 hours
- 9.D) Nonbearing Walls and Partitions Exterior: per Table 602 9.E) Nonbearing Walls and Partitions Interior: 0 hours
- 9.F) Floor Construction and associated secondary members: 0 hours 9.G) Roof Construction and associated secondary members: 0 hours
- 10) Fire-Resistance Rating Requirements for Exterior Walls Based on Fire Separation Distance (FSD): (Table 602) 10.A) FSD = 10' and greater for group A = 0 hour
- 11) Exterior Wall Openings: Maximum Area of Exterior Wall Openings Based on Fire Separation Distance (FSD) and Degree of Opening Protection (Table 705.8): FSD = 20' and greater = No limit
- **12)** Means of Egress: (IBC Chapter 10)
- 12.A) Occupant load (Table 1004.1.2): To be analyzed under each separate tenant finish package.
- Assumed occupant load for shell based on occupancy group M Mercantile = 7,820 sqft / 30 = 260.67 = 261 occupants13) Plumbing Requirements: (Table 2902.1)

13.A) To be analyzed under each separate tenant finish package.

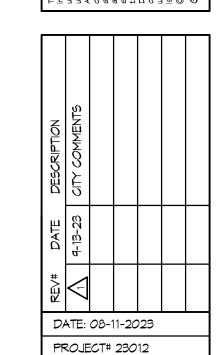


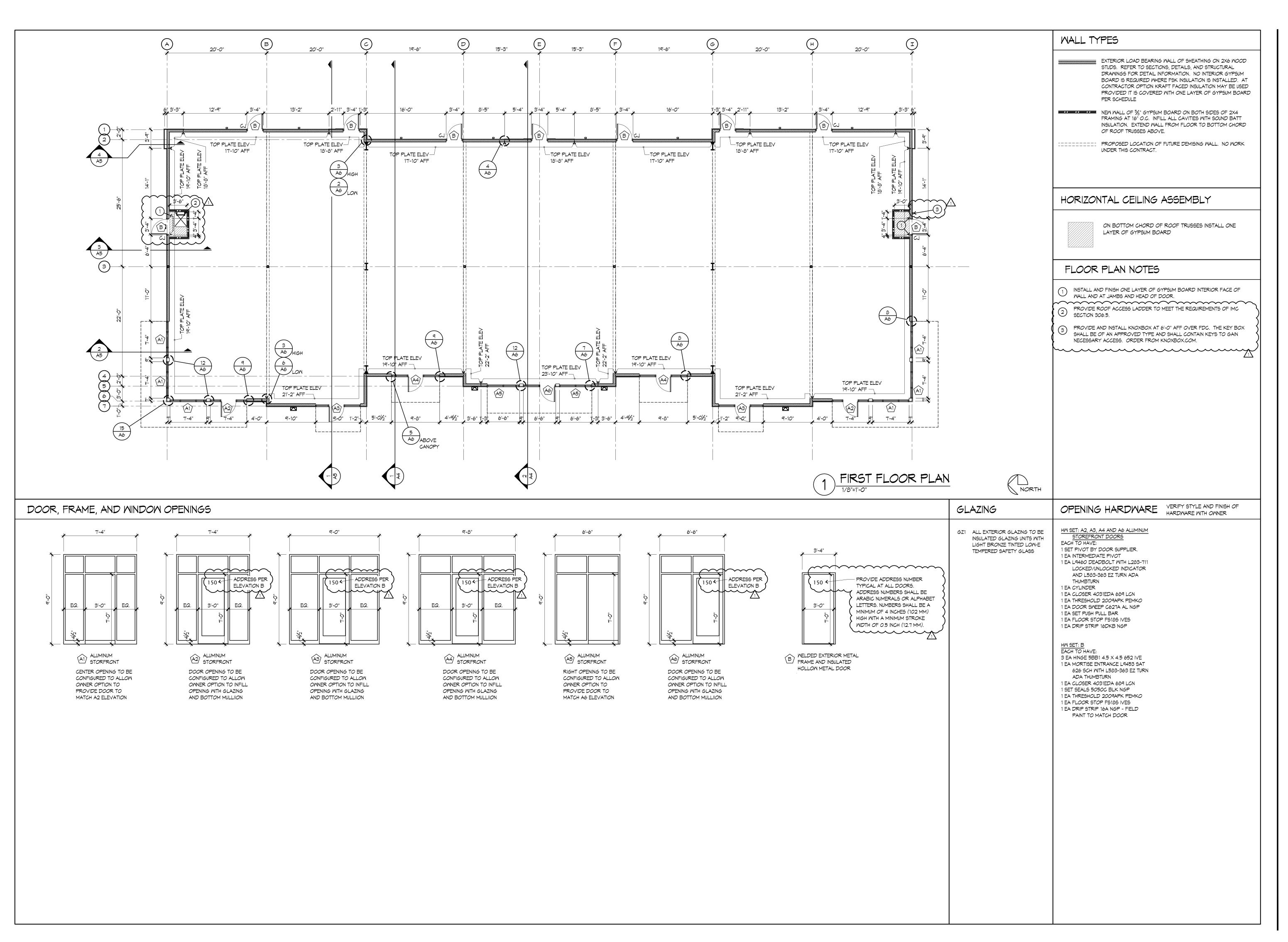


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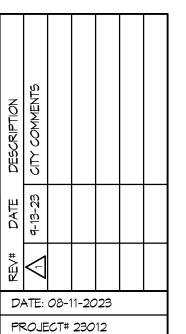
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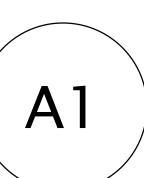
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Lee's Summit, Missouri
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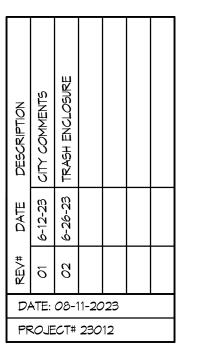
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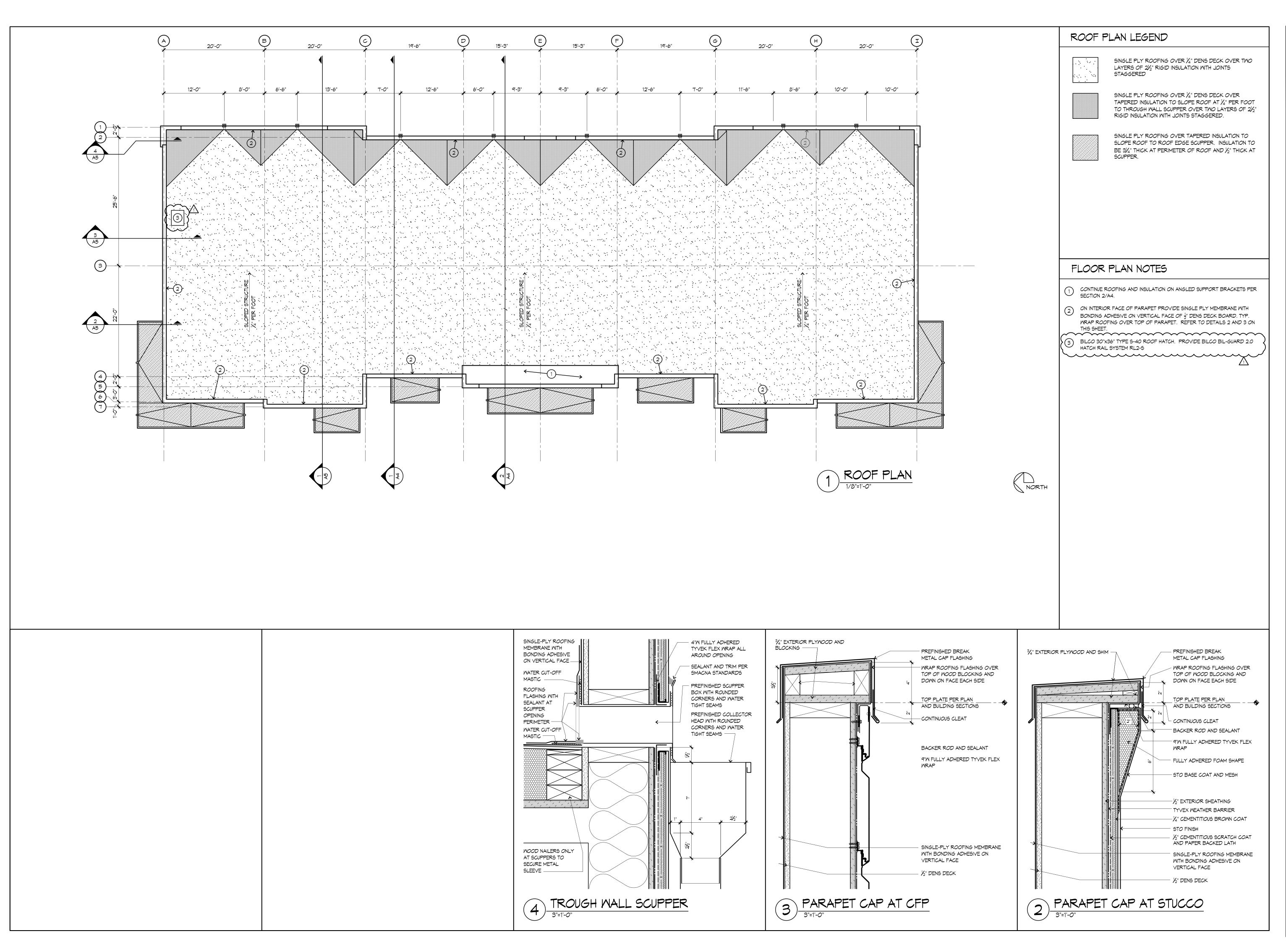


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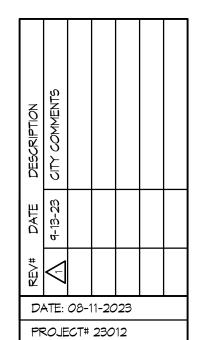
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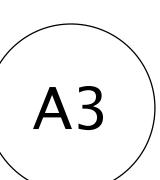


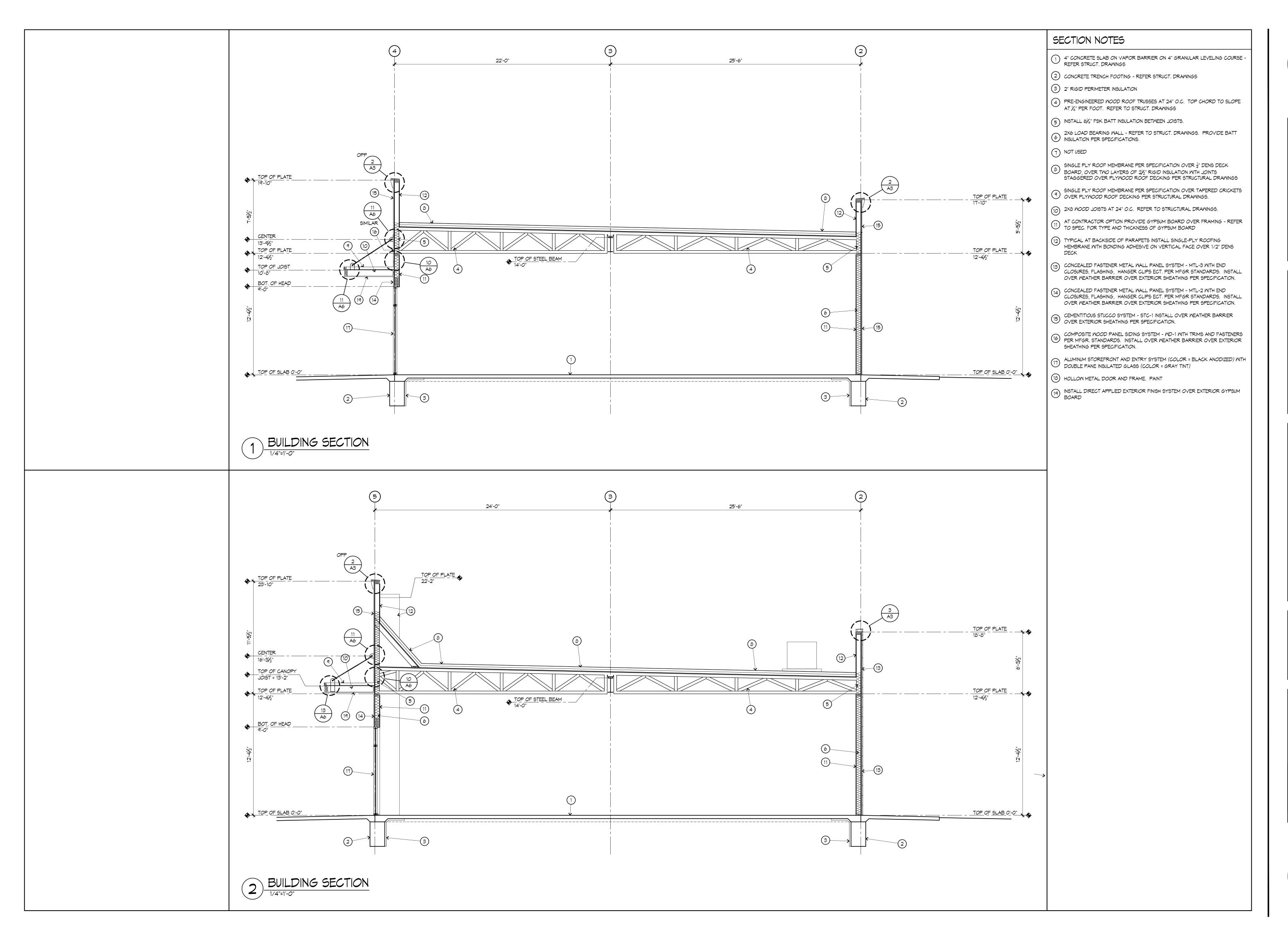
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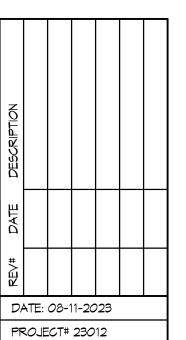
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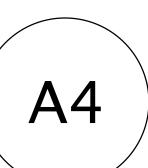
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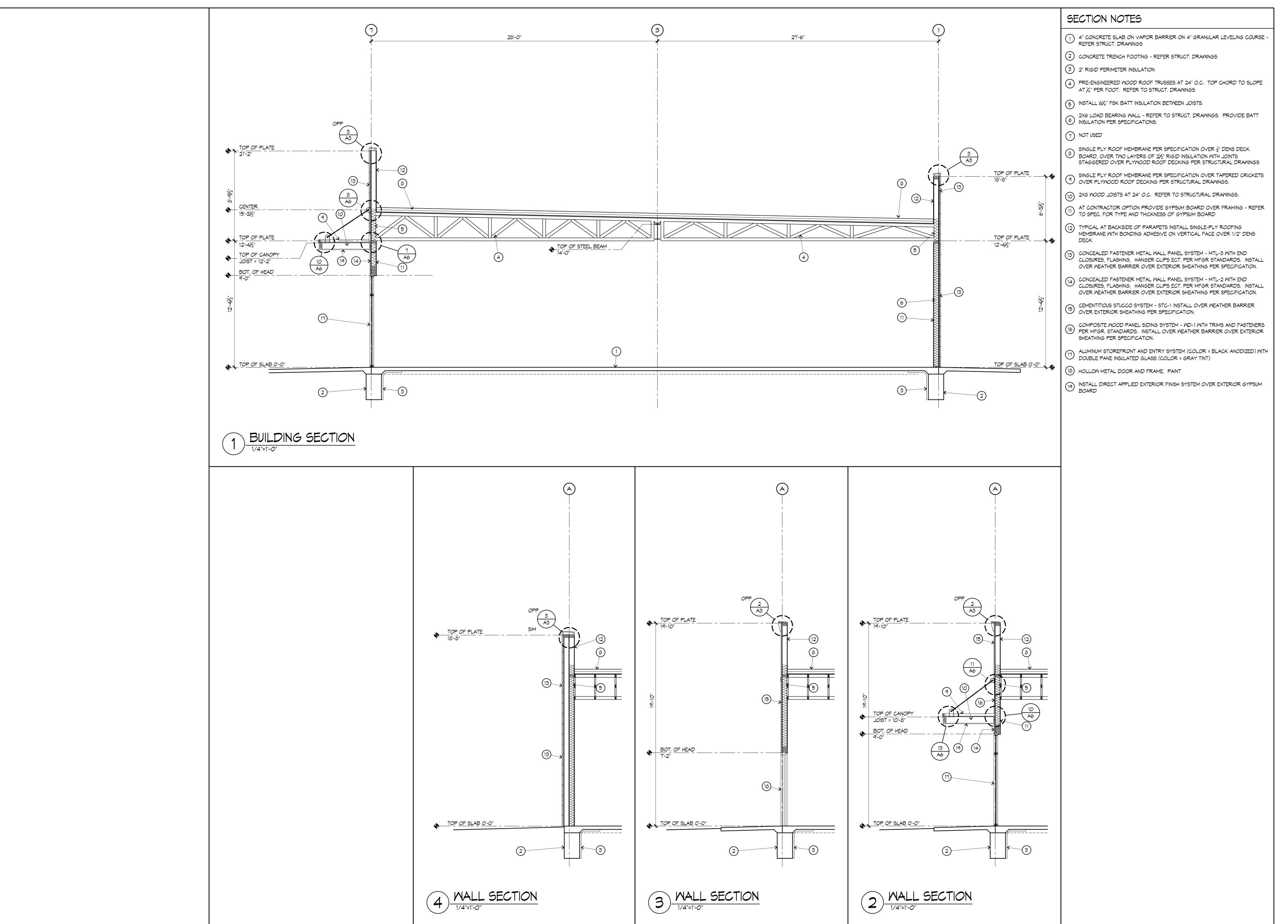
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Development Services Departn
Lee's Summit, Missouri
10/23/2023

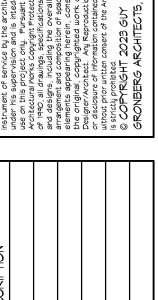
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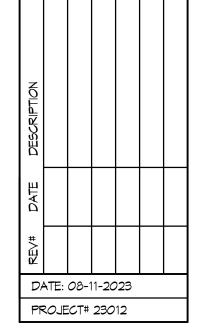
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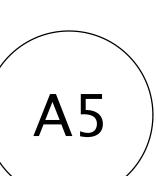


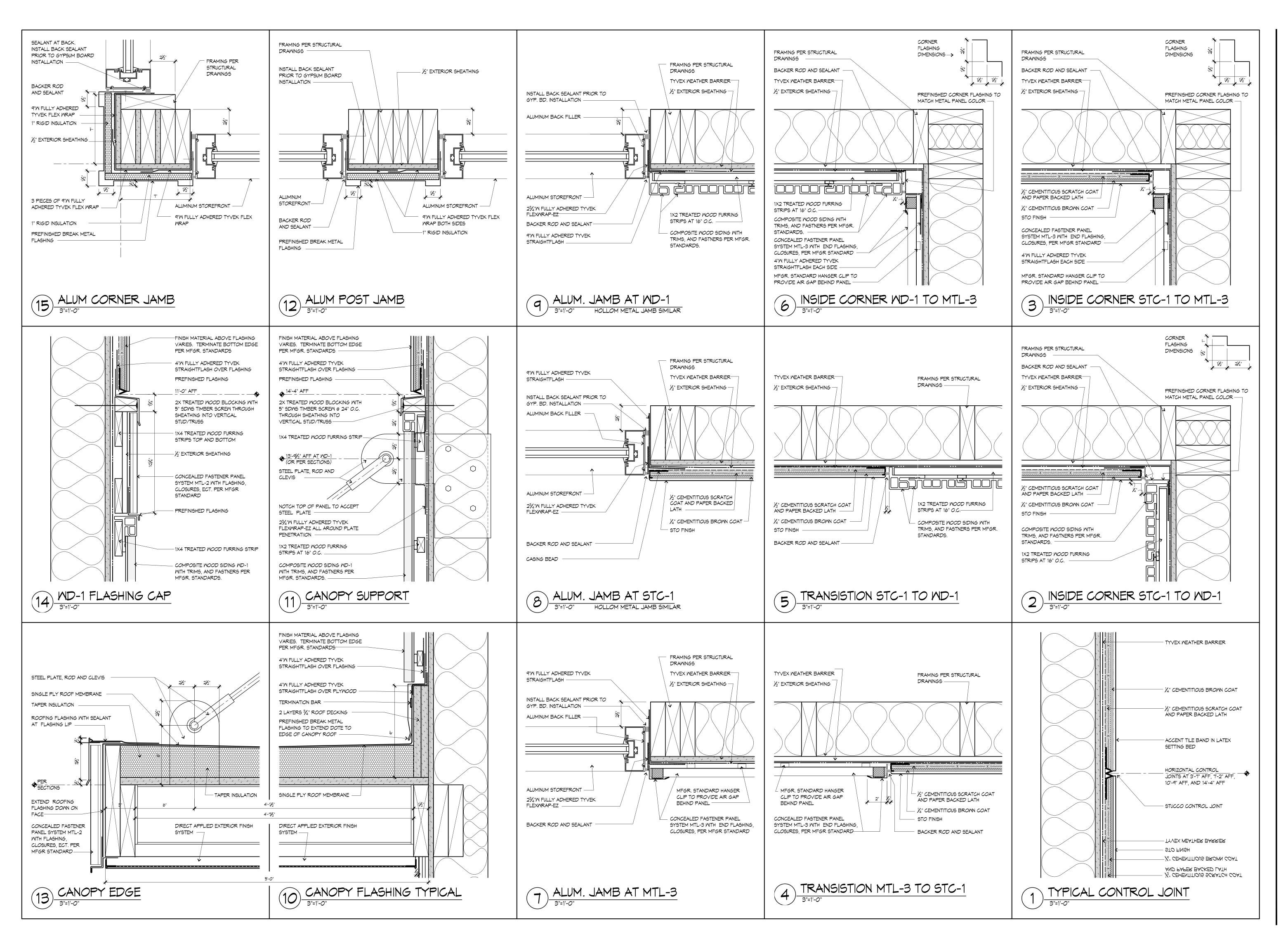
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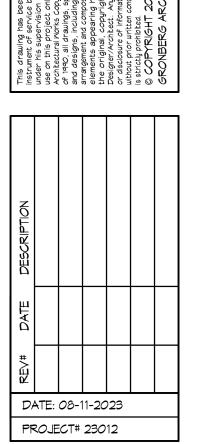


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DIVISION 1 - GENERAL REQUIREMENTS

GENERAL REQUIREMENTS 01000

- The General Conditions of the Contract for Construction of A.I.A. Document A201, latest edition, forms
 part of this contract as if herein bound.
- 2. Satisfy all applicable local codes and ordinances. Reference the cover sheet for list of codes.
- 3. Contractor to pay for Construction Permit Fees, Excise Tax, Tap Fees, Ect. as applicable to Municipality and Utility Companies.

PRODUCTS

- 1. Where a specific manufacturer's product is named including make or model number or other designation, it has been selected to establish the significant qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics of the product. Unless otherwise indicated, provided the named product or a product that is equal to or exceeds the specified product.
- 2. Deliver, store, and handle products using means and methods that will prevent damage, deterioration, and loss, including theft. Comply with manufacturer's written instructions.
- 3. Provide products complete with accessories, trim, finish, fasteners, and other items needed for a complete installation and indicated use and effect.
- 4. All products, and materials used in conjuction with, are to be installed in strict conformance with manufacturers instruction.

SPECIAL CONDITIONS

- 1. General Contractor shall provide all water, light, and power necessary during construction until the completion of the building. All extensions, controls, and equipment beyond the points of temporary service shall be provided under the work of the respective Division requiring the same.
- 2. The General Contractor shall do all final cleaning of the building construction areas and wash windows.

DIVISION 2 - SITE WORK

SITE WORK / GENERAL

- 1. All sitework shall be as indicated on the Civil drawings and in the civil General Notes.
- 2. All sanitary sewer work, storm water disposal, and street work shall be accomplished in accordance with the City of Lees Summit, MO standards and ordinances.
- 3. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, freezing temperatures or frost, and other hazards created by earthwork operations. Provide protective insulating materials as necessary and remove all frost from beneath foundations and footings prior to placing concrete.
- 4. Provide erosion-control measures to prevent erosion or displacement of soils and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways. Prevent surface water and ground water from entering excavations, from ponding on prepared subgrades, and from flooding Project site and surrounding area. Protect subgrades from softening, undermining, washout, and damage by rain or water accumulation.
- 5. Materials to be removed shall be considered to be earth. If rock is encountered, it shall be removed as an extra on a unit cost basis.
- 6. Remove waste material, including trash, and debris, and legally dispose of it off Owner's property.
- 7. All site preparation, fill, foundation subgrades, floor slab and pavement subgrades shall be installed per recommendations of The Geotechnical Report prepared for this site.

LANDSCAPING, SEEDING, SOD

1. Landscaping, seeding, and sod shall be as indicated on the Landscape Drawings, General Notes and Specifications.

PAVEMENTS

- 1. All pavements shall be as indicated on the Civil drawings and in the civil General Notes. All pavements shall be installed per recommendations of The Geotechnical Report prepared for this site.
- 2. Sidewalks areas shall be minimum 4" thick concrete, reinforced with $6 \times 6 \text{ W1.4}\times\text{W1.4}$ mesh over 4" rock. Walks adjacent to building shall be tied to building footings with #4 bars 18" o.c.

DIVISION 3 - CONCRETE

CONCRETE WORK

- 1. Provide footings, foundation walls, formwork, concrete floors, stoops, sidewalks, curbs, retaining walls, piers, reinforcement and all other concrete work required.
- Materials used in this work shall meet the criteria outlined in the Structural General Notes. Reference Structural General Notes for concrete mix requirements. Grade beams, footings and walls shall be as detailed on the structural drawings.
- 3. Forms should be wood or steel, plumb and sufficiently straight to prevent leakage. Brace to prevent displacement. Use removable form ties and fill holes flush after removal.
- 4. Floor slabs on grade shall be on 10mil poly vapor barrier over 4" drainage fill. Thickness and reinforcing shall be as indicated on the structural drawings.
- 5. Provide 2" thick rigid extruded polystyrene insulation board on inside faces of trench footings and extend 24" horizontal below the floor slab.

DIVISION 4 - MASONRY

DIVISION 5 - METALS

STRUCTURAL STEEL AND MISCELLANEOUS STEEL

- 1. Reinforcing steel shall be as indicated in the structural General Notes.
- 2. All structural steel shall be as indicated in the structural General Notes.
- Fabrication and erection shall be in accordance with AISC Specification for Design Fabrication and Erection of Structural Steel Buildings.
- 4. All steel shall be cleaned of rust and scale and shall receive a shop coat of rust inhibitive paint. Exterior exposed steel at lintels, etc. to be painted to match brick color.
- 5. Provide holes, anchors, plates and other items as required. Coordinate detail dimensions with other contractors' work.
- 6. Connections shall be as shown on final shop drawings. In general use welded connections for shop work and high-strength bolts or welding for field connections as called for on the approved shop drawings.
- 7. Provide loose plates, lintels, sheets plates, inserts and anchorages as required for complete installation.

DIVISION 6 - WOODS AND PLASTIC

CARPENTRY

- 1. Material used in this work shall meet the criteria outlined in the structural General Notes.
- 2. Each piece of framing lumber shall be identified by the grademark of an approved inspection agency or association.
- 3. All wood sills and sleepers in contact with masonry or concrete, and wood the bottom of which is 24" or less from the finished floor slab shall be CCA treated. Between the concrete foundation and sill plate provide STYROFOAM brand Sill Seal foam gasket, a flexible polyethylene gasketing strip, in 5.5" x 50' rolls.
- 4. All rough carpentry items shall be installed in accordance with IBC and/or FHA requirements whichever is most restrictive.
- 5. $\frac{1}{2}$ " sheathing to be min $\frac{1}{16}$ " thick 24/16 span-rated APA rated exterior plywood.

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

WEATHER BARRIER

- 1. Weather Barrier shall by Tyvek Commercial Building Wrap as manufactured by Dupont. Secure to substrate and tape all seams per manufacturer's instructions. Seam tape to be compatible with barrier.
- 2. Window sealing tape shall be as Indicated on drawings. Install at all windows. doors, and penetrations in exterior walls install per manufacturer's instructions.

SINGLE PLY ROOFING

- 1. The design for Single Ply roofing system is based on Carlisle's Sure-Weld TPO Specification. TPO roof Membrane to be installed using Carlisle's Sure-Weld MECHANICALLY FASTENED systems and installation methods. Install roofing and materials used in conjunction with roofing in strict conformance with roofing manufacturer's instructions in order to achieve manufacturers 20 year warranty. Subject to compliance with requirements, provide the named product or an approved equal.
- 2. Insulation shall be Carlisle HP-H Polyiso. Insulation shall be installed in two layers with joints staggered.

 Gaps greater than 1/4" are not acceptable. Thickness is to be as required to achieve an R-25.
- 3. Crickets shall be tapered Carlisle HP-H Polyiso. Slope to be $\frac{1}{4}$ " per 12" min.
- 4. Adhesive shall be Carlisle Sure-Weld Bonding Adhesive
- 5. Cover Board shall be installed under all roof membrane and shall be Dens Deck Cover Board. Cover board shall be $\frac{1}{4}$ " thick over flat roofs. Provide and install $\frac{1}{2}$ " thick Cover Board on back side vertical surface of parapets.
- 6. Membrane sheet shall be Carlisle Sure-Weld TPO Reinforced Membrane, 60mils thick and white color.
- 7. Flashings shall be premolded accessories as supplied by Carlisle including but not limited to inside corners, outside corners, curb wrap corners, pipe wraps, split pipe seals, TPO Square Tubing Wraps, and molded sealant pockets. Where the use of premolded or pre-fabricated accessories is not feasible Sure-Weld flashing may be used.
- 8. Walkway protection shall be Sure-Weld Heat Weldable Walkway. Walkways are to be 34" wide, nominal 180 mils thick, white, with safety yellow welding tabs along both edges.

THERMAL INSULATION

1. Where insulating materials listed below will not be coverved with gypsum board substitute specified insulation w/product of same thickness and R-value and similar facing, but such shall have a flame spread rating of 25 or less and a smoke developed rating of 50 or less when tested in accordance with ASTM E84 unless more stringent requirements are listed for a specific product.

2. Insulation Schedule

- 2.1. First floor exterior walls: $6\frac{1}{4}$ " R19 batts of fiberglass with foil skrim kraft (FSK) vapor barrier Certainteed CertaPro Thermal Foil Faced Batts. At contractors option $6\frac{1}{4}$ " R19 kraft faced insulation may be used ONLY if it is covered by minimum of one layer of gypsum board.
- 2.2. Between roof trussed above bearings plate: $6\frac{1}{4}$ " R19 batts of fiberglass with foil skrim kraft (FSK) vapor barrier Certainteed CertaPro Thermal Foil Faced Batts.
- 2.3. See single ply roofing membrane specification for insulation at low sloped roofs (1/4" per ft)
 2.4. Gaps and voids around door and window areas: Minimal expanding foam insulation shall be Dow
 Chemical Great Stuff. It is to be Tack free in 20 minutes and with full cure in 8 hours at room

temperature and 50% relative humidity. It is to be paintable and stainable.

2.5. Interior non-loadbearing walls: Unfaced Fiberglass Batts - Certainteed CertaPRO AcoustaTherm Batts

SHEET METAL COMPONENTS

Prefinished Sheet: Aluminum-Zinc Alloy-Coated Steel Sheet ASTM A 792/A 792M, Class AZ50 coating designation, Grade 40 (Class AZM150 coating designation, Grade 275); structural quality and prepainted by the coil-coating process to comply with ASTM A 755/A 755M. Apply the following coil coating: High-Performance Organic Finish - Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.

2. Schedule:

- 2.1. MTL-1 Prefinished Cap, Faschia, and Miscellaneous Flashing: Form from 24ga Prefinished Sheet (unless noted otherwise) as detailed on the drawings.
- 2.2. MTL-2 flush concealed fastner metal wall panel Pac-Clad 12"w x 1"dp flush panels. Form from 24ga Prefinished Sheet. To be formed on precision roll-foring equipment that includes levelers.
- 2.3. MTL-3 Conceled fastener architectural metal panel Elevate (formerly firestone) Delta CFP-12 (50%), CFP-12B (25%), and CFP-12T (25%) installed in a random manner to provided variegated spacing. Form from 22ga Prefinished Sheet. Provide metal end closures. Install with CFP-UNA 25 hanger clips
- 3. Anchor work in place with noncorrosive fasteners, adhesives, setting compounds, tapes and other materials and devices as recommended by manufacturer of each material or system. Provide for thermal SEARMARSION and building movements. Comply with recommendations of "Architectural Sheet Metal Manual" by SMACNA
- 1. Schedule (Referece typical details on sheet A10) 4- Seal goving i gints in metal work: with plastomes in sealants. Water-tight / weatherproof performance of
- sflastbleato store gaints with the beauties of the store.
- 52 See aluminum storefront specification section.
- 53 Joints abutting Stone: Sonneborn, Sonolastic NP2, color to coordinate with stone. 54 - Joints abutting Stucco: Sonneborn, Sonolastic 150 VLM, color to match stucco.
- C1 Interior joints in wet areas: GE Silicones, Sanitary SCS1700 Silicone SeaInt
- C2 Interior storefront to drywall and hollow metal to drywall: Pecora, AC-20 +Silicone
- 2. Joints and spaces to be caulked shall be clean, dry and free of dust, loose mortar or other foreign materials. After joints have been filled, they shall be neatly tooled to eliminate air pockets or voids and to provide a smooth, neat appearing surface. Compressible Filler Is required for back-up of all joints and shall be polyethylene foam rod, Pecora Foam No. 88, or approved equal.

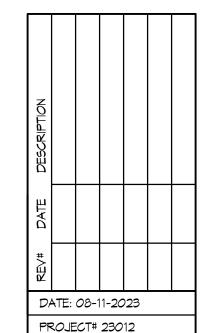
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DIVISION 8 - DOORS AND WINDOWS

EXTERIOR ALUMINUM FRAMES, DOORS, AND WINDOWS

- 1. Aluminum Storefront and Windows to be Efco Corporation Series $403T 2"x4\frac{1}{2}"$ thermal storefront framing. Provide thermal sills and applied muntins as indicated on the drawings.
- 2. Aluminum doors to be Efco Corporation Series D500 Wide Stile $1\frac{3}{4}$ " thick Standard aluminum swing entrance doors. Bottom Rail of door to be minimum of 10" high and provide matching intermediate rail at exit device hardware mounting hieght.
- 3. Minimum thickness of aluminum shall be 1/8". Slots shall receive thickness of glazing indicated on drawinas.
- 4. Provide aluminum-framed systems, including anchorage, capable of withstanding without failure, load criteria outlined in the Structural General Notes.
- 5. Comply with manufacturer's instructions and recommendations for installation. Set units plumb and level, accurately aligned and securely anchored.
- 6. Head, sill, and intermediate mullion break metal flashings shall be formed from .032" aluminum sheet finished to match aluminum finish. Sealant (52) shall be Sonneborn, Sonolastic NP2, with color to match aluminum finish. Sealants of storefronts/windows and associated flashings shall be done by aluminum storefront subcontractor or under his control.

STEEL FRAMES AND DOORS 08110

- 1. Drywall interior frames shall be manufactured from cold-rolled 16 gauge steel conforming to ASTM A366 or A620 & A568. Frames shall be knock-down, double return back bend (to prevent cutting into wall) flush hairline miter at the corner of the head and jamb, and the corner reinforced with a concealed clip. Each jamb is to have one compression anchor to securely hold the frame between the studs and maintain proper alignment.
- 2. Welded exterior frames are to be fabricated of either cold-rolled steel conforming to ASTM ASTM A366 or A620 & A568 at interior locations or hot-dipped galvanized steel conforming to ASTM A924 and A653 at exterior locations both of 16 gauge material. Fabricate frames with mitered or coped and continuously welded corners and seamless face joints. Provide welded frames with temporary spreader bars.
- 3. All Frames and Doors are to be thoroughly degreased and cleaned of all imperfections and provided with one coat of oven-cured neutral color primer paint. Primer coat shall conform with ANSI A250.10. The primer coat is to be a preparatory base for necessary finish painting.
- 4. Frame Hardware Provisions: Frames are to be mortised, reinforced and drilled and tapped for all mortise finish hardware. Frames are to be reinforced only for surface mounted hardware, with drilling and tapping to be done in the field by the installation contractor. Steel plates and mortising boxes are to be welded to all hinge and lock reinforcement. Frames are handed. Hinge jambs are to be mortised for hinges with 7 gage steel hinge reinforcement welded in place and drilled and tapped for fasteners in accordance with ANSI A156.7. The strike jamb is to be prepared for 4-7/8" universal strike in accordance with ANSI A 115.1\$2. Additional hardware reinforcement (e.g. closer/holder as indicated by hardware schedule) is to be 12 gage minimum steel welded in place. Three door mutes are to be provided per strike jamb and two for double swing heads.
- 5. Where fire rated openings are scheduled, provide fire rated frames and doors for the assembly with ratings as scheduled or noted. Frames and Doors shall have factory applied Underwriter Laboratories, Inc. metal label permanently affixed, identifying fire rating classification and time. Where required to achieve rating, due to size of openings, gauge of fire rated doors and frames shall be increased.
- 6. Exterior Steel doors are to be full-flush style with face sheets of 16ga hot-dipped galvanized steel conforming to ASTM A924 and A653. They are to have mechanically interlocked, hemmed, hairline seams on vertical edges and have no visible seams on faces (S.D.I. Design I). Face sheets are to be totally supported by a foamed-in-place polyurethane core. The core is to fill the entire door cavity and be chemically bonded to all interior surfaces. Density of foam to exceed 1.3 pcf and it have a minimum crush strength of 3600 psf. The top and bottom door edges are to be closed with 16 gage steel channels welded in place.
- 7. Door Hardware Provisions: Hinge preparations are handed. Hinge edges are to be mortised for hinges with 7 gage steel hinge reinforcements welded inside the door edge and drilled and tapped for fasteners in accordance with ANSI A156.7. The lock edge is to have a standard bevel (1:16) and be prepared for locks in accordance with hardware schedule. Additional hardware reinforcement (e.g. closer/pulls as indicated by hardware schedule) is to be 12 gage steel channel.

DIVISION 8 - DOORS AND WINDOWS

GLASS AND GLAZING

- 1" insulated tinted, low-E glass: Each pane shall be 1/4" thick plate or float glass. Units shall be dual-sealed silicone units. All units to have low-e coating per manufacturers standard. Where indicated also provide light bronze tint per manufacturers standard.
- Clear tempered safety glass shall be prime glass type, which has been treated to strengthen glass in bending to not less than 4.5 times annealed strength.
- 3. Except as otherwise indicated, comply with glass manufacturer's instructions, glazing materials manufacturer's instructions, and "Glazing Manual" by FGMA and other technical publications of recognized authorities in the industry. Install each piece to achieve watertight and airtight performance, and to minimize breakage.
- 4. Provide glazing sealants, compounds, tapes and gaskets as indicated and required, making specific product selections in compliance with manufacturer's recommendations. Coordinate materials for compatibility, and do not use solvent-release materials for glazing laminate glass, sealant-edged insulated glass, or glazing plastics.

FINISH HARDWARE 08710

1. Provide finish hardware for all doors in project. See Door Hardware Schedule on drawings for specific information. The Contractor shall verify all keying requirements with owner prior to installation. Finish to be 26D (confirm w/owner.) Hardware mounting heights by the door and hardware institute "Recommended Locations for Builders Hardware". Comply with all ADA requirements for hardware.

DIVISION 9 - FINISHES

CEMENTITIOUS STUCCO SYSTEMS

- 1. Cementitious Stucco System is to be Sto Powerwall as manufactured by Sto Corp., 3800 Camp Creek Parkway, Building 1400, Suite 120. Atlanta, GA 30331. Install products below per manufactures writtin instalation instructions and specification "Sto Guide Specification S504 StoPowerwall with Metal Plaster Base on Concrete, Concrete Masonry (CMU), and Frame Wall Construction"
- 2. Lath shall be minimum paper backed 2.5 lb./yd2 (1.4 kg/m2) self furred galvanized steel diamond mesh metal lath in compliance with ASTM C 847.
- 3. Mechanical Fasteners: Non-corroding fasteners in compliance with AISI 5200 2007 and ASTM C 1513, minimum 11 gauge, 7/16 inch diameter head galvanized roofing nails with minimum 3/4 inch (19mm) penetration into studs or minimum #8 Type 5 wafer head fully threaded corrosion resistant screws with minimum 3/4 inch (19 mm) penetration into studs.
- 4. Provide Drip screed, casing bead, corner lath, expansion and control joint accessories. All accessories shall meet the requirements of ASTM C 1063 and its referenced documents. Accessories shall be either PVC plastic (ASTM D 1784, cell classification 13244C), Zinc (ASTM B 69), or galvanized metal (ASTM A 653 with G60 coating.) All accessories shall have perforated or expanded flanges and shall be designed with grounds for the specified thickness of stucco.
- 5. Stucco shall be 108 StoPowerwall Scratch & Brown portland cement-based stucco concentrate in compliance with ASTM C 926 factory proportioned, fiber reinforced portland cement based stucco for trowel or pump application, field mixed with graded sand (ASTM C 897) and potable water.
- 6. Application of Scratch Coat Stucco: Apply scratch coat in accordance with PCA Plaster (Stucco) Manual. Apply scratch coat to nominal thickness of 1/2 inch over metal lath surfaces. If weather is hot or surface is dry, dampen previous coat before applying mortar and thin stone veneer. If scratch coat is done in advance, use notch trowel to create texture for better bond. Smooth surface is not acceptable for bond.
- Application of Brown Coat Stucco: Apply Brown coat as soon as the first coat is firm enough to receive the second coat without damage. Alternatively, moist cure the first coat up to 48 hours and dampen the scratched surface with water immediately before applying the second coat. Apply the second coat with sufficient pressure to ensure intimate contact with the first coat and as needed to bring the stucco to a uniform thickness that matches the grounds of the accessories. Use a rod or straight edge to bring the surface to a true, even plane. Fill depressions in plane with stucco. Final combined thickness of scratch and brown coats shall be uniform throughout the wall area and shall be 3/4 inch.
- 8. Finish coat shall be Sto Powerflex with texture as selected by owner.

DIVISION 9 - FINISHES

GYPSUM DRYWALL

- 1. Materials shall meet the following standards:
- 1.1. Gypsum Mallboard ASTM C36
- 1.2. Nails ASTM C3801.3. Metal Accessories ASA A97.1
- 1.4. Water Resistant Gypsum Backing Board ASTM C1278 (paragraph 6.1)
- Use gypsum board fasteners that are recommended by gypsum board manufacturer except as otherwise indicated. Furnish and install all trim accessories, adhesives and joint treatments per manufacturer's recommendations. All exposed gypsum board to be finished to Level 4 unless noted otherwise.
- 3. Schedule: (basis of design)
- 3.1. Interior side of exterior walls: ½" Gold Bond XP Gypsum Board. Note: No gypsum board is required unless otherwise indicated. At owners option gypsum board may be installed. If installed Gypsum Board is to be installed from floor to underside of roof trusses.
- 3.2. Interior partitions in mechanical equipment rooms: $\frac{1}{2}$ " Gold Bond XP Gypsum Board.

PAINT AND WOOD FINISHES

- 1. Paint shall be as manufactured by Sherwin Milliams Paints or approved equal.
- 2. Surface Preparation for paint;
- 2.1. General: Protect adjacent and underlying surfaces. Remove or mask electrical plates, hardware, light fixture trim, escutcheons, and fittings prior to preparing surfaces of finishing. Correct defects and clean surfaces capable of affecting work of this section. Seal marks that may bleed through surface finishes with compatible sealer.
- 2.2. Galvanized Steel: Remove surface contamination and oils and wash with solvent.
- 2.3. Uncoated Ferrous Metals: Remove grease, mill scale weld splatter, dirt and rust. Where heavy coatings of scale are evident, remove by hand or power tool wire brushing or sandblasting: wash with solvent. Apply treatment of phosphoric acid solution, ensuring weld joints, bolts and nuts are similarly cleaned. Spot Prime paint after repairs.
- 2.4. Shop primed ferrous Metals: Sand and scrape to remove loose primer and rust. Feather edges to make patches inconspicuous. Clean with solvent. Prime bare steel surfaces.
- 2.5. Other existing Surfaces: Remove loose, flaking, powdery, and peeling paints. Light sand painted surfaces. Fill holes, cracks, depressions and other imperfections with compatible patching compound; sand flush with surface. Remove oil, grease, and wax by scraping; solvent wash and thoroughly rinse. Remove rust by wire brushing to expose base metal.

3. Paint and wood finishes schedule;

- 3.1. Paint all new and exisitng interior gypsum board walls in wet areas (Mechanical Rooms):
 1 ct. PrepRite 200 Latex Primer and
 2 cts. Waterbased Catalyzed Epoxy
- 3.2. Interior gypsum board ceilings and soffits (unless noted otherwise): 1 ct. PrepRite 200 Latex Primer
- 2 cts. ProMar 200 Int. Latex Flat
 3.3. Interior and Exterior Ferrous metal (metal frames, exposed steel structure, misc. metal):
 Touch up factory prime coat with compatible Metal Primer or
 1 ct. Sprayed All Surface Enamel oil Primer

DIVISION 10 - SPECIALTIES

2 cts. Sprayed A-100 Exterior Latex Satin.

FIRE EXTINGUISHER

1. Provide THREE fire extinguishers. Fire extinguishers shall be Cosmic 5E (2A,10B,C) by J.L Industries or approved equal. Cabinets to be Ambassador by J.L Industries or approved equal, Not Fire-Rated, Tub - 10 1/2 x 24 x 5 1/2 inches. Trim Material - Steel, white epoxy primer finish, Trim Style Semi recessed 3" rolled edge. Door Style - Vertical Duo Panel with pull handle, Door Glazing - Clear Safety Glass, with Die Cut Letters - Vertical Red Reverse.

Lee's Summit, Missouri
107-8/2023

OF M/SS

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KLEFFNER

NUMBER

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RELEASED FOR CONSTRUCTION As Noted on Plans Review

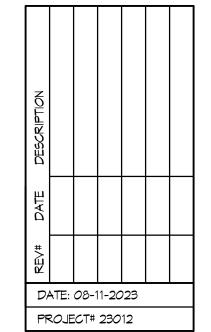
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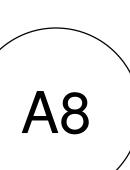
GUY GRONBERG ARCHITECTS, P.(113 SE 3rd St. Lee's Summit, MO 64063 Phone 016.524.0878 Fax 016.524.0878



CORNER |







NOTES - STEEL

1. ALL STRUCTURAL STEEL TO BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE GOVERNING EDITION OF THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES."

2. BOLTED CONNECTIONS: ALL BOLTED CONNECTIONS SHALL BE SNUG-TIGHT IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM F3125 GRADE A325 OR A490 BOLTS" PUBLISHED BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS.

3. WELDED CONNECTIONS: ALL WELDING SHALL BE IN ACCORDANCE WITH THE "STRUCTURAL WELDING SOCIETY CODE" (AWS D1.1) PUBLISHED BY THE AMERICAN WELDING SOCIETY. ELECTRODES FOR WELDING SHALL COMPLY WITH THE REQUIREMENTS OF TABLE 3.1 OF AWS D1.1. ALL WELDING TO BE DONE BY QUALIFIED WELDERS CONFORMING TO THE AMERICAN WELDING SOCIETY STANDARDS

4. SPLICING OF STEEL MEMBERS. UNLESS SHOWN ON THE DRAWINGS. IS PROHIBITED WITHOUT THE WRITTEN APPROVAL OF APEX ENGINEERS, INC.

5. CHANGES IN SIZE OR POSITION OF THE STRUCTURAL ELEMENTS, AND HOLES, SLOTS, CUTS, ETC. THROUGH ANY MEMBER, ARE NOT PERMITTED UNLESS THEY ARE DETAILED ON THE APPROVED SHOP DRAWINGS.

6. NO FINAL BOLTING OR WELDING SHALL BE MADE UNTIL AS MUCH OF THE STRUCTURE AS WILL BE STIFFENED THEREBY HAS BEEN PROPERLY ALIGNED.

7. FABRICATE ALL BEAMS WITH THE MILL CAMBER UP UNO.

8. ALL VISIBLE WELDED CONNECTIONS ON ARCHITECTURAL ELEMENTS TO BE GROUND SMOOTH. DO NOT REDUCE THROAT SIZE OF WELD.

9. THE FABRICATOR SHALL BE RESPONSIBLE FOR THE DESIGN AND PERFORMANCE OF ALL CONNECTIONS NOT FULLY DESIGNED OR DETAILED IN THE CONTRACT DOCUMENTS. FABRICATOR TO PROVIDE ENGINEERED STAMPED SHOP DRAWINGS AND CALCULATIONS FOR ALL CONNECTIONS THAT DO NOT COMPLY WITH AISC STEEL CONSTRUCTION MANUAL CHAPTER 10 SIMPLE SHEAR CONNECTIONS.

10. STEEL MEMBERS ON THE EXT OF THE BUILDING OR EXPOSED TO SOIL MUST BE, AT A MIN. PROPERLY PRIMED WITH RUST INHIBITING PRIMER AND PAINTED. STEEL MEMBERS COMPLETELY ENCLOSED IN BUILDING ENVELOPE DO NOT REQUIRE PRIMER OR PAINT. UNO. REF ARCHITECTURAL DOCUMENTS FOR ADDITIONAL REQUIREMENTS OF EXPOSED STEEL.

NOTES - ROUGH CARPENTRY

1. CONTRACTOR IS RESPONSIBLE TO ADEQUATELY SHORE AND BRACE ALL FLOOR AND ROOF FRAMING AND WALLS DURING CONSTRUCTION.

2. NAILING: SHALL BE PER FASTENING SCHEDULE OF THE INTERNATIONAL BUILDING CODE. FOR PREFABRICATED CONNECTORS USE ALL FASTENERS AS PRESCRIBED BY THE

3. ALL POST AND JAMBS ARE TO BE BLOCKED SOLID WITH THE SAME NUMBER OF PIECES AS THE POST OR JAMB WITHIN THE FLOOR SPACE AND CONTINUOUS TO THE FOUNDATION LEVEL. BLOCKING IS TO ALIGN WITH POST OR JAMBS

4. SPECIES AND GRADES SHOWN IN SCHEDULE ARE THE MINIMUM ACCEPTABLE. BETTER GRADES MAY BE SUBSTITUTED

5. PRESSURE TREATED WOOD TO BE USED WHEN EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE OR MASONRY

6. WOOD STRUCTURAL PANELS TO BE APA RATED AND EXPOSURE 1. PANELS TO BE MANUFACTURED PER US DEPARTMENT OF COMMERCE PRODUCT STANDARDS PS1 OR PS2. 7. ANY FASTENERS OR CONNECTORS TO AND THROUGH TREATED WOOD SHALL BE FASTENED WITH ASTM A153 CLASS D HOT DIP GALVANIZED OR STAINLESS STEEL FASTENERS

8. WOOD FRAMING WILL HAVE SHRINKAGE. THE CONTRACTOR SHALL COORDINATE REQUIREMENTS TO ACCOMMODATE SHRINKAGE WITH OTHER TRADES. 9. BORED HOLES FOR HORZ PLUMBING PIPING SHALL BE PROVIDED WITH FLEXIBLE JOINTS

TO PERMIT MOVEMENT. 10. RIGID ELECTRICAL CONDUIT INSTALLED VERTICALLY SHALL BE PROVIDED WITH FLEXIBLE JOINTS TO PERMIT MOVEMENT.

11. ALL DIMENSIONAL LUMBER SHALL BE GRADE STAMPED WITH MOISTURE CONTENT NOT TO EXCEED 19%.

12. INCISED STRUCTURAL LUMBER NOT PERMITTED WITHOUT THE PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.

13. DIMENSIONAL LUMBER SIZES SHOWN ON PLANS ARE NOMINAL DIMENSIONS. DRESSED SIZES PUBLISHED IN THE LATEST EDITION OF AMERICAN SOFTWOOD LUMBER PS20 SHALL

BE ACCEPTED AS MINIMUM NET SIZES CONFORMING TO SUCH NOMINAL SIZES 14. WOOD HEADERS SHALL HAVE A FULL 3" LENGTH OF BEARING AT EACH END UNO. 15. ALL BEAMS AND JOISTS NOT BEARING ON SUPPORTING MEMBERS SHALL BE FRAMED WITH PREFABRICATED METAL JOIST HANGERS FOR REQUIRED CAPACITY. ALL

PREFABRICATED METAL HARDWARE IS BY SIMPSON STRONG-TIE COMPANY OR APPROVED EQUIVALENT. CONNECTIONS IN CONTACT WITH PRESSURE TREATED WOOD SHALL HAVE G185 GALVANIZED COATING PER ASTM A653 AND HOT DIPPED GALVANIZED FASTENERS PER

5. ALL EXT AND PERIMETER FOOTINGS SHALL EXTEND BELOW FROST DEPTH, REF DESIGN ASTM A153. ALTERNATE CORROSION RESISTANT CONNECTIONS IN ACCORDANCE WITH IBC WILL BE CONSIDERED. PRIOR WRITTEN APPROVAL BY THE STRUCTURAL EOR IS REQUIRED. 16. WALL, FLOOR, AND ROOF SHEATHING NAILS SHALL HAVE FULL HEADS. CLIPPED NAILS ARE NOT ALLOWED IN THESE APPLICATIONS.

17. NAIL TYPE USED IN WALL, FLOOR, AND ROOF WSP SHEATHING SHALL BE COMMON OR GALVANIZED BOX NAILS. SINKER NAILS, COOLER NAILS, ETC ARE NOT PERMITTED IN THESE

18. ALL SIDE LOADED LVL BEAMS TO BE FASTENED TOGETHER PER MFR REQUIREMENTS. 19. ALL MULTI-PLY BEAMS TO BE SUPPORTED BY STUD PACK WITH (1) ADDITIONAL STUD THAN BEAM PLIES.

NOTES - PREFAB WOOD TRUSSES

. TRUSSES TO BE DESIGNED AND ERECTED IN CONFORMANCE WITH TRUSS PLATE INSTITUTE SPECIFICATIONS AND RECOMMENDATIONS AND IN ACCORDANCE WITH LOCAL BUILDING CODES.

2. TRUSSES TO BE BRACED PER MFR RECOMMENDATIONS DURING ERECTION.

3. TRUSSES SHALL BE LATERALLY SUPPORTED AT ALL PANEL POINTS.

4. TRUSS MFR TO DESIGN AND PROVIDE ALL TRUSS CONNECTIONS. 5. TRUSS MFR IS TO SUBMIT LAYOUT PLANS AND CALCULATIONS FOR ALL TRUSSES. THE

CALCULATIONS ARE TO BEAR A LICENSED PROFESSIONAL ENGINEER'S SEAL IN THE STATE OF WHICH THE PROJECT IS LOCATED. CALCULATIONS ARE TO SHOW LOADINGS, SPACING, STRESSES, CONFIGURATION, CONNECTIONS, GRADE OF MATERIAL, CAMBER, AND DEFLECTIONS. 6. FLOOR AND ROOF TRUSSES NOTED AS A DRAG TRUSS (DT) SHALL BE DESIGNED TO

TRANSFER OR CARRY AXIAL LOAD NOTED ON FRAMING PLANS ACTING ALONG TRUSS TOP CHORD AND SHALL BE RESISTED ALONG BOTTOM CHORD OVER LENGTH NOT GREATER THAN LENGTH OF SHEAR WALL NOTED ON PLANS (IF APPLICABLE). ALL PROVIDED LOADS ON PLANS ARE ULTIMATE LEVEL (UNFACTORED WIND LOAD, UNO ON PLAN). 7. TRUSSES SHALL NOT BE NOTCHED, DRILLED, CUT, OR ALTERED WITHOUT WRITTEN

APPROVAL OF THE TRUSS MANUFACTURER'S ENGINEER. PROPOSED MODIFICATIONS SHALL BE REVIEWED BY THE STRUCTURAL EOR PRIOR TO MODIFICATION.

8. THE WOOD TRUSS MFR SHALL BE REGISTERED AND APPROVED PER IBC SECTION 1704.5.2 FOR FABRICATION WITHOUT SPECIAL INSPECTION. 9. FLAT ROOF TRUSSES SHALL BE DESIGNED FOR AN ADDITIONAL LOAD OF MIN (2) 200 LB POINT LOADS SPACED AT 6'-0" APART ANYWHERE ALONG THE TOP CHORD FOR MECH CONDENSORS. MECH CONDENSORS SHALL BE PLACED SUCH THAT THEY ARE SUPPORTED BY AT LEAST (2) ROOF TRUSSES.

NOTES - GENERAL

1. THESE DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS

2. NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN

3. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT

4. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED 5. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S

HAND-OPERATED TOOLS FOR COMPACTION ADJACENT TO FOUNDATION WALLS AND

FOOTINGS. FOOTINGS SHALL BE BACKFILLED EVENLY ON BOTH SIDES. 7. UNLESS OTHERWISE NOTED, FIREPROOFING METHODS AND MATERIALS FOR STRUCTURAL MEMBERS ARE NOT SHOWN ON STRUCTURAL DRAWINGS. REFERENCE

PROOFING METHODS AND MATERIALS. 8. DO NOT SCALE THESE DRAWINGS. USE DIMENSIONS SHOWN ON PLANS.

THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY FOR SUCH DEVIATION BY THE ARCHITECT/ENGINEER'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS HE HAS SPECIFICALLY INFORMED THE ARCHITECT/ENGINEER OF SUCH DEVIATION AT THE TIME OF SUBMISSION, AND THE ARCHITECT/ ENGINEER HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION 10. ALL THINGS WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. PLANS AND/OR SPECIFICATIONS WILL BE CORRECTED, OR AMBIGUITY WILL BE MADE BY THE ARCHITECT/ENGINEER BEFORE THE AFFECTED WORK

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERRORS OF DETAILING, FABRICATION AND INSTALLATION. THE CONTRACTOR SHALL MAKE ALL MEASUREMENTS IN THE FIELD NECESSARY TO VERIFY OR SUPPLEMENT DIMENSIONS SHOWN ON THE CONTRACT DRAWINGS AND HE SHALL VERIFY THAT ALL DIMENSIONS SHOWN ON THE SHOP DRAWINGS ARE COORDINATED WITH THE DIMENSIONS AND REQUIREMENTS OF THE CONTRACT DRAWINGS. REVIEW OF THE SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR COMPLETING THE WORK SUCCESSFULLY IN

ACCORDANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS. 12. SUBMIT PRINTS OR ELECTRONIC COPIES OF EACH SHOP DRAWINGS. REPRODUCIBLE COPIES OF CONTRACT DOCUMENTS SHALL NOT BE USED AS SHOP DRAWINGS. SHOP DRAWINGS SHALL BE REVIEWED BY CONTRACTOR PRIOR TO SUBMISSION. CONTRACTOR STAMP SHOP DRAWINGS ACCEPTING RESPONSIBILITY FOR COORDINATION OF DIMENSIONS SHOWN IN THE CONTRACT DOCUMENTS, QUANTITIES AND COORDINATION WITH OTHER TRADES. DRAWINGS NOT BEARING CONTRACTOR'S STAMP MAY BE REJECTED AT THE

13. REVIEW AND RETURN OF SHOP DRAWINGS SHALL BE BASED ON A MINIMUM OF TEN (10) WORKING DAYS IN THE STRUCTURAL ENGINEER'S OFFICE FROM RECEIPT OF SUBMISSION TO RETURN TO THE NEXT PARTY FOR THEIR ACTION. SHOP DRAWINGS SHOULD BE SUBMITTED INCREMENTALLY AS APPROPRIATE PACKAGES ARE PREPARED TO EQUALIZI THE WORKLOAD FOR REVIEW OF THE DRAWINGS. SUBMISSION OF A LARGE VOLUME OF SHOP DRAWINGS AT ONE TIME MAY RESULT IN REVIEW TIMES WHICH WILL EXCEED THOSE NOTED ABOVE. DEFINITION OF A "LARGE VOLUME" OF SHOP DRAWINGS IS SUBJECT TO

NOTES - SHALLOW FOUNDATIONS

1. CONTRACTOR SHALL BE FULLY FAMILIAR WITH ALL ASPECTS OF THE SOILS REPORT BEFORE BEGINNING CONSTRUCTION

PLACEMENT OF PERIMETER DRAINS, UNDER-SLAB DRAINS, AND ANY OTHER SOILS RELATED

NOTES - CONCRETE

1. ALL CONCRETE CONSTRUCTION TO CONFORM TO ACI "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", THE GOVERNING EDITION OF THE ACI 318, AND ACI "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" ACI 301, UNO. 2. WATER REDUCING ADD MIXTURES ARE ALLOWED IN CONCRETE MIX DESIGNS.

6. REF ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES. WHERE FINISH IS NOT SPECIFIED, CONFORM TO REQUIREMENTS OF ACI 301.

OUTLET BOXES, CONDUIT, ANCHORS, ETC. 8. CONTACT APEX ENGINEERS, INC. IF HOUSE KEEPING PADS OR INERTIA BASES ARE REQUIRED BEYOND WHAT IS SHOWN IN THE STRUCTURAL CONTRACT DOCUMENTS. 9. ALL REINFORCING STEEL TO BE DETAILED IN ACCORDANCE WITH ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES."

11. DOWELS IN FOOTING, WALLS, AND DRILLED PIERS MUST BE IN POSITION BEFORE PLACING CONCRETE WHENEVER POSSIBLE.

WALL AND SLAB OPENINGS. 13. REF TYP FOUNDATION DETAILS FOR INFORMATION ON REINFORCING REQUIREMENTS AT

14. PROVIDE VERT CONTROL JOINTS ON ALL POURED CONCRETE WALLS AND BASEMENT WALLS, EXCEPT FOUNDATION STEM WALLS LOCATED IN THE GROUND. SPACE JOINTS AT 3 x WALL HEIGHT FOR WALLS LESS THAN 10'-0" AND WALL HEIGHT FOR TALLER WALLS.

15. OPENINGS IN SLAB OF 1'-4" AND LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REF ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SUCH OPENINGS.

INTO THEIR SHOP DRAWINGS AND WORK.

APPROVAL OF THE ENGINEER. THE WRITTEN APPROVAL OF THE ENGINEER.

CONSTRUCTION METHODS AND/OR SEQUENCES. 6. FOUNDATION WALLS SHALL NOT BE BACKFILLED UNTIL LOWER AND UPPER SLABS ARE IN PLACE AND REACH FULL STRENGTH UNLESS ADEQUATE BRACING IS PROVIDED. USE ONLY

ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FIRE RATING REQUIREMENTS, FIRE

9. THE CONTRACTOR SHALL INFORM THE ARCHITECT/ENGINEER OF ANY DEVIATION FROM WRITTEN INTERPRETATION OF THE ALLEGED DEFICIENCY, OMISSION, CONTRADICTION OR

PROCEEDS.

DISCRETION OF THE ARCHITECT OR STRUCTURAL ENGINEER.

INTERPRETATION.

2. CONTRACTOR SHALL USE THE SOILS REPORT FOR SPECIFICATIONS AND DETAILS FOR

3. CONTRACTOR SHALL REFER TO THE SOILS REPORT FOR ALL SOIL CONDITIONING REQUIREMENTS PRIOR TO PLACING BUILDING FOUNDATIONS. 4. ALL FOOTING EXCAVATIONS TO BE APPROVED BY GEOTECHNICAL ENGINEER PRIOR TO

3. SYNTHETIC MICRO-FIBERS ARE NOT ALLOWED UNLESS SPECIFICALLY NOTED IN THESE

DRAWINGS. 4. UNLESS OTHERWISE SHOWN IN THE ARCHITECTURAL DRAWINGS. PROVIDE 3/4" CHAMFERS AT THE EDGES THAT ARE EXPOSED TO VIEW IN THE FINISHED STRUCTURE. 5. REF ARCHITECTURAL DRAWINGS FOR DOOR AND WINDOW OPENINGS, DRIP SLOTS, REGLETS, MASONRY, ANCHORS, BRICK LEDGE ELEVATIONS AND FOR MISCELLANEOUS

EMBEDDED PLATES, BOLTS, ANCHORS, ANGLES, ETC. 7. REF MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR DRAINS, SLEEVES,

10. REINFORCING SHALL BE CONTINUOUS WHEREVER POSSIBLE. SPLICES AND LAPS TO CONFORM TO ACI 318. REFER TO CONCRETE REBAR SCHEDULE.

12. REF TYP FOUNDATION DETAILS FOR INFORMATION ON REINFORCING REQUIREMENTS AT

CORNER AND TEE INTERSECTIONS.

PROVIDE ADDITIONAL JOINT WITHIN 10'-0" OF CORNERS

MATERIAL SPECIFICATIONS **CONCRETE & REINFORCING STEEL SPECIFICATIONS** MATERIAL **SPECIFICATION** REINFORCING BARS ASTM A615, GRADE 60 WELDED REBAR ASTM A706 WELDED WIRE FABRIC **ASTM A1064 ASTM A1044** STUD RAIL ASSEMBLIES PORTLAND CEMENT ASTM C 150 ASTM C 618, 15% MAX CONCRETE AGGREGATES ASTM C 33, 3/4" MAX AGGREGATE SIZE EPOXY - THREADED ROD ANCHORS HILTI HIT-HY 200 V3 A OR SIMPSON SET 3G EPOXY - REINFORCING BARS HILTI HIT-HY 200 V3 R OR SIMPSON SET 3G POWDER-ACTUATED FASTENERS HILTI 0.157" DIA X-U OR SIMPSON 0.157" DIA PDPA **REBAR CONDITIONS** MINIMUM CONCRETE COVER FORMED SURFACES EXPOSED TO GROUND OR WEATHER UNFORMED SURFACE IN CONTACT WITH GROUND WALLS AND SLABS NOT EXPOSED TO GROUND OR WEATHER INTERIOR BEAMS AND COLUMNS (TO TIES OR 1 1/2" STIRRUPS) CONCRETE MIX DESIGNS

	C	ONCRETE M	IX DESIGNS			
CONCRETE USE	WEIGHT	28 DAY f'c	CEMENT TYPE	MAX W/C	SLUMP (+/-1")	%AIR
FOOTINGS	NW	3500 psi	I/II	0.55	5"	6% MAX
INT. SLAB ON GRADE	NW	4000 psi	I/II	0.45	5"	3% MAX
	CONC	RETE SLAB	SPECIFICAT	IONS		
FLATNESS CR	RITERIA			SPECII	FICATION	
FLOOR FLATNESS, FF				SOV: 35	5 MLV: 25)
FLOOR LEVELNESS, FL				SOV: 24	MLV: 17	7
	STEEL	. MATERIAL	SPECIFICAT	IONS		
MATERIA	۸L			SPECII	FICATION	
WIDE FLANGE SHAPES (W)			ASTM A992			
CHANNELS (C), ANGLES (L)		ASTM A36			
PLATES				AST	M A36	
HOLLOW STRUCTURAL SH	IAPES (HS	S)	ASTM A500, GRADE C			
HEADED ANCHOR STUDS			AWS D1.1 TYPE B / ASTM A29			
HIGH STRENGTH BOLTS			A	STM F3125	, GRADE	A325
ANCHOR BOLTS (HEX-HEA	D UNO)		ASTM F1554 (55 KSI) "S1"			"S1"
EPOXY ANCHOR RODS				AST	M A36	
POWDER-ACTUATED FAST	ENERS		HILTI 0.15		OR SIMPS DPA	ON 0.157" DIA
STEEL DECK, PLAIN STEEL	-			ASTM A10	008, (33 K	SI)
STEEL DECK, GALVANIZED)			ASTM A6	53, (33 KS	SI)

5000 PSI (28 DAY STRENGTH)

WOOD MATE	RIAL SPECIFICATIONS
MATERIAL	SPECIFICATION
JOISTS, RAFTER, HEADERS, BEAMS	No. 2 DF/L
TREATED LUMBER	No. 2 SP
STUDS, BEARING WALL	REF PLAN / SCHEDUL
SILL AND TOP PLATES	REF PLAN / SCHEDUL
HEAVY TIMBERS	No. 1 DF/L
GLULAM BEAMS - SINGLE SPAN	DF/DF 24F-V4
GLULAM BEAMS - MULTI SPAN	DF/DF 24F-V8
GLULAM COLUMNS	DF COMB #2

NON-SHRINK GROUT, COLUMN BASES

LAMINATED VENEER LUMBER, LVI Fb = 2600 psi, E = 2.0 x 10E6 psiLAMINATED STRAND LUMBER, LSL Fb = 1700 psi, E = 1.3 x 10E6 psi PARALLEL STRAND LUMBER, PSL Fb = 2500 psi, E = 1.8 x 10E6 psi BOLTS AND THREADED RODS ASTM A307 (MIN.)

DWDER-ACTUATED FASTENERS			SIMPSON 0.157" DIA PDPAWL		
FRAMING NAIL SPECIFICATIONS					
COMMON NAIL BOX NAIL			NAIL		
SIZE	DIAMETER	LENGTH	DIAMETER	LENGTH	
6d	0.113"	2"	0.099"	2"	
8d	0.131"	2 1/2"	0.113"	2 1/2"	
10d	0.148"	3"	0.128"	3"	
16d	0.162"	3 1/2"	0.135"	3 1/2"	
20d	0.192"	4"	0.148"	4"	

NOTES - DEFERRED SUBMITTALS

40d 0.225" 5" 0.162" 5"

1. THE ARCHITECT OR ENGINEER OF RECORD SHALL LIST THE DEFERRED SUBMITTALS ON THE PLANS FOR REVIEW BY THE BUILDING OFFICIAL.

2. DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND FOUND TO BE IN THE GENERAL CONFORMANCE TO THE DESIGN OF THE BUILDING.

3. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL. 4. DEFERRED SUBMITTALS ARE DEFINED AS THOSE PORTIONS OF THE DESIGN THAT ARE NOT SUBMITTED AT THE TIME OF THE APPLICATION AND THAT ARE TO BE SUBMITTED TO THE BUILDING OFFICIAL WITHIN A SPECIFIED PERIOD. 5. DEFERRAL OF ANY SUBMITTAL ITEMS SHALL HAVE THE PRIOR APPROVAL OF THE

BUILDING OFFICIAL. 6. SUBMITTALS SHALL INCLUDE DETAILED DRAWINGS OF EACH MEMBER AND ITS CONNECTIONS ALONG WITH SUPPORTING CALCULATIONS PREPARED UNDER THE SUPERVISION, BEARING THE SEAL AND SIGNATURE, OF A LICENSED PROFESSIONAL ENGINEER IN THE PROJECT JURISDICTION.

7. CONTRACTOR SHALL SUBMIT STRUCTURAL DEFERRED SUBMITTAL FOR THE FOLLOWING: PREFABRICATED WOOD TRUSSES GUARDRAILS AND HANDRAILS

STEEL FABRICATED STAIRS AND LADDERS

ENGINEERED WOOD FRAMING

NOTES - SHOP DRAWING SUBMITTALS

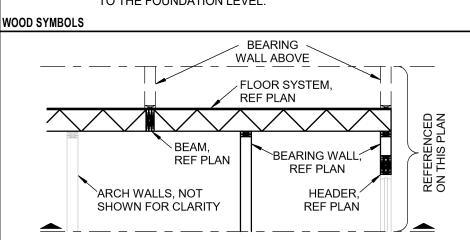
1. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS IN ADDITION TO ITEMS REQUIRED BY ARCHITECTURAL SPECIFICATIONS. SHOP DRAWING REVIEW IS INTENDED FOR VERIFICATION OF DESIGN CONCEPT CONVEYANCE AND GENERAL

CONFORMANCE TO CONTRACT DOCUMENTS ONLY 2. CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DOCUMENTS SHALL BE CLOUDED BY MFR/FABRICATOR. ANY OF THE AFOREMENTIONED WHICH ARE NOT CLOUDED WOOD HEADER TAG OR FLAGGED BY SUBMITTING PARTIES SHALL NOT BE CONSIDERED APPROVED AFTER ENGINEER'S REVIEW, UNO.

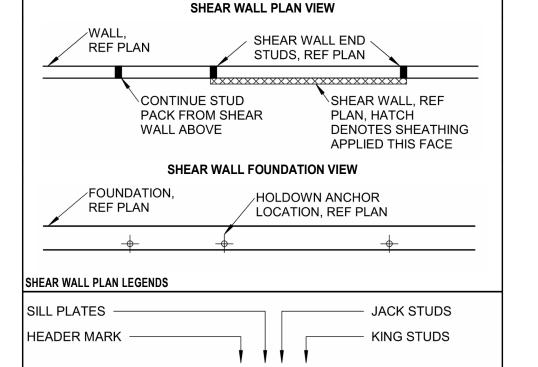
3. SHOP DRAWINGS DO NOT REPLACE THE CONTRACT DOCUMENTS. ITEMS SHOWN INCORRECTLY OR OMITTED AND NOT FLAGGED BY THE ENGINEER DURING REVIEW ARE NOT TO BE CONSIDERED CHANGES TO THE CONTRACT DOCUMENTS. 4. THE ADEQUACY OF ENGINEERING DESIGNS AND LAYOUT PERFORMED BY OTHERS RESTS WITH THE DESIGNING OR SUBMITTING AUTHORITY. DESIGNED SHOP DRAWINGS SHALL BE PREPARED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER. 5. SHOP DRAWINGS MUST BE ORIGINAL DOCUMENTS. REPRODUCTION OF ANY PORTION OF THE CONTRACT DOCUMENTS FOR USE IN SUBMITTALS IS NOT PERMITTED AND MAY RESULT

6. THE ENGINEER HAS THE RIGHT TO APPROVE OR DISAPPROVE ANY CHANGES TO CONTRACT DOCUMENTS AT ANY TIME BEFORE OR AFTER SHOP DRAWING REVIEW. 7. CONTRACTOR SHALL SUBMIT STRUCTURAL SHOP DRAWINGS FOR THE FOLLOWING: • CONCRETE MIX DESIGN, MATERIALS, AND TEST REPORTS • CONCRETE REINFORCING STEEL, HARDWARE, AND FASTENERS STRUCTURAL STEEL FRAMING ROUGH CARPENTRY HARDWARE, AND FASTENERS

PLAN LEGENDS BASE PLATE CALLOUT ----BOTTOM OF BASE PLATE PLAN COLUMN \ ELEVATION CENTERLINES OF COLUMN PLATE SHOWN FOR-GRID/DIMENSION LINES ORIENTATION **BASE PLATE TAG** (►) CAP PLATE CALLOUT COLUMN SIZE - CONNECTION DETAIL PLAN COLUMN - CENTERLINES OF COLUMN GRID/DIMENSION LINES **COLUMN TAG** FRAMING MEMBERS EXTENTS OF FRAMING SYSTEM MARK RAMING SYSTEM TAG CAMBER SIZE # OF COMPOSITE STUDS **COMMENTS BEAM SIZE** DETAIL -W16X36 (16) C=1" [NOTE] X/SXXX XXKT.O.S. = 118'-0" TOP OF STEEL **ELEVATION** - CONNECTION **END CONNECTION** END CONNECTION SYMBOL MOMENT CONNECTION, REF DETAILS BEAM SPLICE, REF DETAILS EMBED PLATE, REF DETAILS STEEL BEAM TAGS CONCEALED FLANGE HANGER, REF SCHEDULE JOIST HANGER, REF SCHEDULE JOIST BEARING LOCATION STUD PACK: (X) = REQUIRED NUMBER OF STUDS (STUD PACKS MUST BE AT LEAST MIN WIDTH OF THE MEMBER IT IS SUPPORTING, UNO. POSTS SUPPORTING MULTI-PLY LVL BEAMS TO HAVE (1). POST ABOVE. FRAMER MUST ENSURE THAT POST BEARS ON BEAM BELOW OR IS CONTINUOUS DOWN TO THE FOUNDATION LEVEL.



FRAMING LEGEND THE FRAMING IN THIS EXAMPLE IS FOR REFERENCE ONLY, ACTUAL FRAMING SITUATIONS AND CONSTRUCTION TYPE MAY VARY. ARCH WALLS ABOVE, NOT SHOWN FOR CLARITY. FRAMING PLANS ARE CUT BELOW FRAMING LOOKING UP, SIMILAR TO A REFLECTED CEILING



H1 [1S/1J/1K]

SYMBOLS & ABBREVIATIONS DETAIL ON SHEET DETAILS, SECTIONS, AND SHEET NUMBER ELEVATIONS $\Gamma.O.W. = XXX' - XX''$ **ELEVATION (TOP)** FOUNDATION WALLS AND B.O.W. = XXX' - XX''ELEVATION (BOTTOM) LEDGES (SIM) EVELS, SPOT ELEVATIONS XXX' - XX" LEVATION MARK & PLAN ELEVATIONS **REVISION MARK** SHEET REVISIONS DEFINITION DEFINITION ARCH ARCHITECT LONG LEG VERTICAL LONG BOTTOM OF LONGITUDINAL MECH **BOTTOM OF FOOTING** MECHANICAL MECH. ELECTRICAL. PLUMBING BOTTOM OF STEE MANUFACTURER BOW BOTTOM OF WALL NOT APPLICABLE NEAR SIDE RFARIN(CENTER NOT TO SCALE CENTER OF GRAVITY STRAND ON CENTER CAST-IN-PLACE **OPPOSITE** CONTRACTION/CONTROL JOINT POWDER ACTUATED FASTENER CENTERLINE PARALLEL PERPENDICULAR CLEAR COLUMN POST-INSTALLED CONTINUOUS POST-TENSION CONT DIAMETER RADIUS DRAG TRUSS RFF REFERENCE ROOF TOP UNIT RTU **ELEVATION** SIMILAR EDGE OF DECK SLAB ON GRADE ENGINEER OF RECORD STANDARD EDGE OF STEEL TOP AND BOTTOM **FACH WAY** TOP OF TOP OF CONCRE XISTING TOP OF DECK XTERIOR FAR SIDE TOP OF FOOTING FIRE RETARDANT TREATED TOP OF LEDGE FIELD VERIFY TOP OF MASONRY GAUGE TOP OF STEEL GENERAL CONTRACTOR TOW TOP OF WALL GIRDER TRUSS TREATED TRANSVERSE HEADED ANCHOR STUD HORZ HORIZONTAL TYPICAL UNLESS NOTED OTHERWI INTERIOR VERTICAL SOMETRIC WP WORK POINT LONG LEG HORIZONTAL

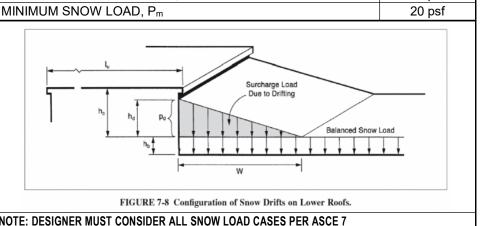
SHEET LIST - STRUCTURAL SHEET NUMBER GENERAL NOTES AND SPECIFICATIONS SPECIAL INSPECTIONS SCHEDULES S120 S130 ROOF LOADING DIAGRAMS S200 **FOUNDATION PLAN** S202 FIRST FLOOR SHEAR WALL PLAN S210 **ROOF FRAMING PLAN** S500 TYPICAL FOUNDATION DETAILS FOUNDATION DETAILS TYPICAL STEEL DETAILS STEEL FRAMING DETAILS TYPICAL WOOD DETAILS TYPICAL WOOD DETAILS WOOD FRAMING DETAILS WOOD FRAMING DETAILS S530 TYPICAL WOOD BRACED WALL DETAILS

DESIGN INF	ORI	MAT	ION		
BUILDING CODE:					
2018 INTERNATIONAL BUILDING CODE	AS ADO	OPTED A	AND/OR	AMEND	ED
BY LOCAL BUILDING CODES					
SOILS INFORMATION:					
SOILS ENGINEER: GEOTECHNOLOGY,	, INC				
REPORT NO.				J0321	45.01
REPORT DATE					/2018
FROST DEPTH				-	6"
MAXIMUM ISOLATED PAD BEARING PF) psf
MAXIMUM CONTINUOUS FOOTING PR	ESSURE) psf
MINIMUM PAD FOOTING DIMENSION					- 0"
MINIMUM CONTINUOUS FOOTING WID)TH				- 6"
WIND DESIGN DATA:				Main B	
OCCUPANCY CATEGORY				-	ll
ULTIMATE WIND SPEED (3 SECOND G	UST), V			109 mph	
WIND EXPOSURE CATEGORY					3
VELOCITY PRESSURE, qz					9 psf
INTERNAL PRESSURE COEFFICIENT, (•				0.18
WIND DESIGN COMPONENTS & CLAD	DING DA	ATA:		Main B	
EDGE REGION, a				5' -	- 0"
WALL ZONES	10 SF	20 SF	50 SF	100 SF	200 SF
4 & 5	20 psf	19 psf			16 psf
4	-21 psf	-20 psf	-19 psf	-18 psf	-17 psf
5	-26 psf	-24 psf	-22 psf	-20 psf	-19 psf
ROOF ZONES	10 SF	20 SF	50 SF	100 SF	200 SF
1' & 1	16 psf				
2 & 3	20 psf			17 psf	
1'	-20 psf	-20 psf	-20 psf	-20 psf	-17 psf
1				-27 psf	
2				-35 psf	
3	-45 psf	-42 psf	-38 psf	-35 psf	-32 psf
1' & 1 OH				-29 psf	
2 OH				-29 psf	
3 OH	-58 psf	-51 psf	-42 psf	-36 psf	-29 psf
SEISMIC DESIGN SITE DATA:					
SPECTRAL RESPONSE COEFFICIENTS	3				0.099
				S	0.068

	JOIL CLASS (FER SOILS REPORT)		
	DESIGN SPECTRAL RESPONSE ACCELERATIONS		$S_{DS} = 0.08$
			$S_{D1} = 0.06$
	SEISMIC ANALYSIS PROCEDURE	EQUIVALENT LATER	
	SEISMIC DESIGN BUILDING DATA:		Main Buildi
	LATERAL SYSTEM: A. BEARING WALL		
	(WOOD) WALLS SHEATHED WITH WO	OD STRUCTURAL PANE	LS RATED F
SE	SHEAR RESISTANCE OR STEEL SHEE	IS	
SE	RESPONSE MODIFICATION, R		6.50
	DEF. AMPLIFICATION FACTOR, Cd		4.00
	OVERSTRENGTH FACTOR, Ω		3.00
	SEISMIC RESPONSE COEF., Cs		0.013
	SEISMIC BASE SHEAR, V		3.7 kip
	SEISMIC DESIGN CATEGORY		В
	SEISMIC RISK CATEGORY		II
	ROOF SNOW LOAD DATA:		Main Build
	GROUND SNOW LOAD, Pg		20 psf
	SNOW LOAD IMPORTANCE FACTOR, I	s	1.00
	SNOW EXPOSURE FACTOR, Ce		1.00
	THERMAL FACTOR, Ct		1.10
	FLAT ROOF SNOW LOAD, Pf		20 psf
	SLOPE FACTOR, Cs		1.00
	SLOPED ROOF SNOW LOAD, Ps		20 psf

SITE CLASS (PER SOILS REPORT)

HIGH PARAPET



LOAD, Pd

47.8 psf

WIDTH, W

L/360

L/240

L/120

NIGH PARAPET	47.0 psi	11 - 0
LOW PARAPET	29.1 psf	7' - 0"
GRAVITY LOAD DATA:		
	LOA	ADS
OCCUPANCY OR USE	UNIFORM	POINT
ROOF DEAD LOADS		
• TYPICAL ROOF	22 psf	N/A
ROOF LIVE LOADS		
ROOF AREAS NOT INTENDED FOR OCCUPANCY	20 psf	
ROOF AREAS USED FOR ASSEMBLY PURPOSES	100 psf	
ROOF AREAS USED FOR ASSEMBLY PURPOSES	100 psf	
ROOF AREAS USED FOR OCCUPANTS	SAME AS OCCUPANCY SERVED	
ROOF AREAS USED FOR OTHER OCCUPANCIES	SAME AS OCCUPANCY SERVED	
• ROOF FABRIC AWNINGS AND CANOPIES SUPPORTED BY A SKELETON STRUCTURE	5 psf	
ROOF SCREEN ENCLOSURE SUPPORT FRAME	5 BASED ON TRIBUTARY AREA OF ROOF SUPPORTED BY THE FRAME MEMBER	200 lbs
ROOF: ALL OTHER CONSTRUCTION	20 psf	
ROOF: ORDINARY FLAT, PITCHED, AND CURVED	20 psf	
VEGETATIVE AND LANDSCAPED ROOFS	100 psf	
PRE-ENGINEERED TRUSS DESIGN REQUIREMENT	S	
ROOF TRUSSES		
MINIMUM DEFLECTION CRITERIA, UNO		
TOTAL LOAD:		L/240
TRANSIENT LOAD:		L/360
INTEGRATED PARAPETS		•

MINIMUM DEFLECTION CRITERIA BASED ON WALL FINISH

BRICK

INFORMATION

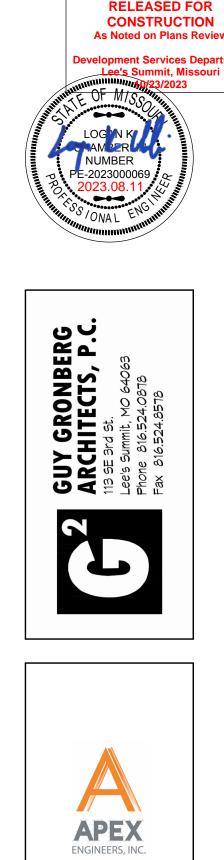
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OTHER BRITTLE

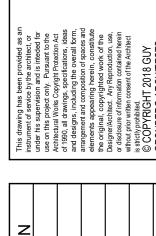
OTHER FLEXIBLE

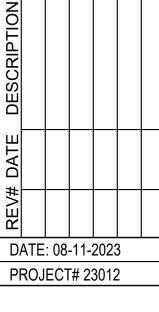
PRE-ENGINEERED TRUSS DESIGN LOADING NOTES

. REFERENCE LOAD TABLES AND LOADING PLANS FOR TRUSS LOAD











AISC TABLE N5.4-1		
INSPECTION TASKS PRIOR TO WELDING	QC	QA
1. WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	Р	Р
2. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	Р	Р
3. MATERIAL IDENTIFICATION (TYPE/GRADE)	0	0
4. WELDER IDENTIFICATION SYSTEM ¹	0	0
 5. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) • JOINT PREPARATION • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION) • BACKING TYPE AND FIT (IF APPLICABLE) 	0	0
6. CONFIGURATION AND FINISH OF ACCESS HOLES	0	0
7. FIT-UP OF FILLET WELDS • DIMENSIONS (ALIGNMENT, GAPS AT ROOT) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	0	0
8. CHECK WELDING EQUIPMENT	0	-
1 THE EARDICATOR OR ERECTOR AS APPLICABLE SHALL MA	ΔΙΝΙΤΔΙΝΙ	Δ

¹ THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE

AISC TABLE N5.4-2		
INSPECTION TASKS DURING WELDING	QC	QA
1. USE OF QUALIFIED WELDERS	0	0
2. CONTROL AND HANDLING OF WELDING CONSUMABLESPACKAGINGEXPOSURE CONTROL	0	0
3. NO WELDING OVER CRACKED TACK WELDS	0	0
4. ENVIRONMENTAL CONDITIONS • WIND SPEED WITHIN LIMITS • PRECIPITATION AND TEMPERATURE	0	0
WPS FOLLOWED SETTINGS ON WELDING EQUIPMENT TRAVEL SPEED		

WINDPRECI 5. WPS I TRAVEL SPEED SELECTED WELDING MATERIALS 0 0 SHIELDING GAS TYPE/FLOW RATE PREHEAT APPLIED INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) PROPER POSITION (F, V, H, OH) 6. WELDING TECHNIQUES INTERPASS AND FINAL CLEANING 0 0

• EACH PASS WITHIN PROFILE LIMITATIONS EACH PASS MEETS QUALITY REQUIREMENTS

INCREASED TARKS AFTER WEI DING	QC	QA
INSPECTION TASKS AFTER WELDING		
1. WELDS CLEANED		0
2. SIZE, LENGTH AND LOCATION OF WELDS	Р	Р
3. WELDS MEET VISUAL ACCEPTANCE CRITERIA • CRACK PROHIBITION • WELD/BASE-METAL FUSION • CRATER CROSS SECTION • WELD PROFILES • WELD SIZE • UNDERCUT • POROSITY	P	Р
4. ARC STRIKES	Р	Р
5. K-AREA ¹	Р	Р
6. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	Р	Р
7. REPAIR ACTIVITIES	Р	Р
8. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	Р	Р

¹ WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 IN. (75 MM) OF THE WELD

HOLDDOWNS.

INSTALLATION.

CONNECTIONS.

1705.6

PROPERLY.

E. PROPRIETARY COMPONENTS INSTALLED PER

G. GRADE AND NOMINAL SIZE OF CHORD STUDS.

B. VERIFY CONNECTION OF DIAPHRAGMS TO SHEAR

D. DRAG TRUSS AND DRAG STRUT PLACEMENT AND

C. DIAPHRAGM BLOCKING PLACEMENT AND

TRANSITION CONNECTIONS BETWEEN FLOOR. F. PROPRIETARY COMPONENTS INSTALLED PER

D. ATTACHMENT AT BEAM BEARING LOCATIONS. E. PROPRIETARY COMPONENTS INSTALLED PER

SHRINKAGE DIAGRAM RECOMMENDATIONS.

2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.

MANUFACTURER SPECIFICATIONS.

3. DIAPHRAGMS AND FLOOR FRAMING

SCREWS, AND FRAMING ANCHORS.

MANUFACTURER SPECIFICATIONS.

SCREWS, AND FRAMING ANCHORS.

MANUFACTURER SPECIFICATIONS.

4. GENERAL WOOD FRAMING

C. JAMB AND SILL FRAMING.

AISC TABLE N5.6-1		
INSPECTION TASKS PRIOR TO BOLTING	QC	QA
1. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	0	Р
2. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	0	0
3. PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	0	0
4. PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	0	0
5. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	0	0
6. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	Р	0
7. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	0	0

AISC TABLE N5.6-3		
INSPECTION TASKS AFTER BOLTING	QC	QA
1. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED	Р	Р

OF CONCRETE. HOLD ONE ADDITIONAL CYLINDER IN RESERVE UNTIL
I. SPECIAL INSPECTION FOR STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360. (REFER TO AISC CHARTS ON THIS SHEET). 1705.3 REINFORCED CONCRETE I. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT. I. INSPECTION OF REINFORCING STEEL WELDING: A. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706. B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16" C. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16" X. I. INSPECTION OF ANCHORS CAST IN CONCRETE: I. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST X. SUSTAINED TENSION LOADS. B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A 5. VERIFYING USE OF REQUIRED MIX DESIGN 3. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND X AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE DIF THE CONCRETE. 7. INSPECTION OF CONCRETE AND SHOTCRETE 2. LACEMENT FOR PROPER APPLICATION TECHNIQUES. 3. VERIFY MAINTENANCE OF SPECIFIED CURING PRESTRESSING FORCES. A. APPLICATION OF PRESTRESSED CONCRETE: A. APPLICATION OF PRESTRESSING FORCES. A. APPLICATION OF PRESTRESSING FORCES. A. PRIOR TO CONCRETE MODED PRESTRESSING TENDONS IN THE SEISMIC-FORCE-RESISTING SYSTEM. 10. ERECTION OF PRECAST CONCRETE MEMBERS. 11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORING. 12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED. 3. PRIOR TO CONCRETE MEMBER BEING FORMED. 3. PRIOR TO REMOVAL OF SHORING. 12. INSPECTION AGENCY TO PERFORM TESTS AT SEVEN (7) DAYS AND AT TWENTY EIGHT (28) DAYS. A STRENGTH TEST SHALL BE THE AVERAGE OF THE STRENGTHS OF AT LEAST TWO (2) 6"x12" CYLINDERS AND AT LEAST THREE (3) 4"x8" CYLINDERS MADE FROM THE SAME SAMPL OF CONCRETE. HOLD ONE ADDITIONAL CYLINDER IN RESERVE UNTIL
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OF CONCRETE. HOLD ONE ADDITIONAL CYLINDER IN RESERVE UNTIL
PROJECT IS COMPLETED. TESTING LABORATORY IS TO FURNISH
ARCHITECT/ENGINEER WITH TEST RESULTS PROMPTLY.
FREQUENCY OF TESTING IS TO BE IN ACCORDANCE WITH ACI 318:
A. AT LEAST ONCE EACH DAY A GIVEN CLASS IS PLACED
B. AT LEAST ONCE FOR EACH 150 CUBIC YDS OF EACH CLASS PLACED
EACH DAY
C. AT LEAST ONCE FOR EACH 5000 SQFT OF SLAB WALL OR SURFACE
AREA PLACED EACH DAY.
1705.5 WOOD CONSTRUCTION
1. HIGH-LOAD DIAPHRAGMS:
A. THE WOOD STRUCTURAL PANEL SHEATHING TO
ASCERTAIN WHETHER IT IS OF THE GRADE AND
THICKNESS SHOWN ON THE APPROVED BUILDING PLANS.
B NOMINAL SIZE OF EDAMING MEMBERS AT AD IOINING
PANEL EDGES.
C. NAIL OR STAPLE DIAMETER AND LENGTH, THE NUMBER
OF FASTENER LINES AND THAT THE SPACING BETWEEN
FASTENERS IN EACH LINE AND AT EDGE MARGINS
AGREES WITH THE APPROVED BUILDING PLANS.
2. SHEAR WALLS AND BEARING WALLS
A. GRADE AND THICKNESS OF WOOD STRUCTURAL
PANELS.
B. NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINING
PANEL EDGES.
C. NAIL OR STAPLE DIAMETER AND LENGTH, THE NUMBER
OF FASTENER LINES AND THAT THE SPACING BETWEEN

AISC TABLE N5.6-1		
INSPECTION TASKS PRIOR TO BOLTING	QC	QA
1. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	0	Р
2. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	0	0
3. PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	0	0
4. PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	0	0
5. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	0	0
6. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	Р	0
7. PROPER STORAGE PROVIDED FOR BOLTS, NUTS,		

AISC TABLE N5.6-2						
INSPECTION TASKS DURING BOLTING	QC	QA				
1. FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	0	0				
2. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	0	0				
3. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	0	0				
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	0	0				

AISC TABLE N5.6-3		PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS. VERIFY USE OF PROPER MATERIALS, DENSITIES AND	
INSPECTION TASKS AFTER BOLTING ACCEPTANCE OR REJECTION OF BOLTED		QA	LIFT THICKNESSES DURING PLACEMENT AND COMPACTIO
		Р	OF COMPACTED FILL.

OF FASTENER LINES AND THAT THE SPACING BETWEEN FASTENERS IN EACH LINE AND AT EDGE CONDITIONS. D. VERIFY THE TYPE, CONNECTION, AND ANCHORAGE OF F. VERIFY BLOCKING INSTALLATION AT PANEL EDGES. A. VERIFY THE SIZE AND SPACING BETWEEN BOLTS, LAG E. SPLICE CONNECTIONS, SHEAR TRANSFER CLIPS, AND A. VERIFY THE SIZE AND SPACING BETWEEN BOLTS, LAG B. NAIL OR SCREW DIAMETER AND LENGTH, THE NUMBER OF FASTENER LINES AND SPACING FOR BUILT UP WOOD F. CUTTING, NOTCHING, AND HOLES COMPLY WITH PLAN SPECIFICATIONS. VERIFY SIZE, LOCATION, AND SHAPE DO NOT EXCEED LIMITS IN FRAMING DETAILS AND WOOD 1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY. LIFT THICKNESSES DURING PLACEMENT AND COMPACTION 5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED

CONSTRUCTION As Noted on Plans Review

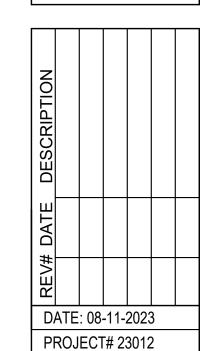
RELEASED FOR



GUY GRONBERG ARCHITECTS, P.C.









SCHEDULE - SHEAR WALLS

3. SILL ANCHORS MAY BE CAST-IN-PLACE J-BOLTS WITH 8" EMBED OR SIMPSON TITEN HD SCREW ANCHORS WITH 6" EMBED. REF SCHEDULE FOR BOLT DIA. BOTH BOLT TYPES REQUIRE 0.229"x3"x3" PLATI

NOTES:

1. WSP = WOOD STRUCTURAL PANEL PLYWOOD OR OSB.

2. NAIL SIZES GIVEN ARE FOR COMMON NAILS OR GALVANIZED (HOT-DIPPED OR TUMBLED) BOX NAILS. SINKER NAILS, COOLER NAILS, ETC. SHALL NOT BE USED FOR WSP SHEAR WALLS.

3. SHEAR WALL NAILS SHALL HAVE FULL HEADS, CLIPPED NAILS ARE NOT ALLOWED.

4. ALL NAILS SHALL BE DRIVEN SUCH THAT THE HEAD IS FLUSH WITH FACE OF SHEATHING. DO NOT OVERDRIVE NAILS.

5. SOLEPLATE NAILS SHALL BE INSTALLED SUCH THAT THE NAILS FULLY ENGAGE THE RIM BOARD BELOW (IF APPLICABLE). REF TYP DETAILS.

6. PROVIDE INTERMEDIATE NAILING (FIELD) AT 12" OC, TYP.
7. PROVIDE (2) TOTAL RIMBOARDS OR A LAYER OF BLOCKING IN ADDITION TO THE RIMBOARD WHERE SOLE PLATE NAILING REQUIRES 2 ROWS OF FASTENERS PER SCHEDULE.

WASHER WITH EDGE OF PLATE LOCATED WITHIN ½" OF SHEAR WALL SHEATHING.

9. SHEAR WALL CLIPS TO BE A35/LTP4, REF PLAN FOR NUMBER OF CLIPS PER SHEAR WALL, 48" OC MAX UNO.

10. AT WALLS DESIGNATED AS FORCE TRANSFER SHEAR WALLS, PROVIDE SIMPSON STRAP ABOVE AND BELOW ALL OPENINGS PER SHEAR WALL DETAIL.

11. END STUDS MUST CONTINUE DOWN TO FOUNDATION WALL UNLESS INTERRUPTED BY TRANSFER BEAM.

12. JACK STUDS FOR OPENINGS DO NOT COUNT TOWARDS THE REQUIRED NUMBER OF END STUDS IN A SHEAR WALL.

13. PROVIDE DOUBLE STUDS AND BLOCKING NAILED TOGETHER WITH (2) 16d NAILS AT 6" OC OR 3" NOMINAL STUDS AND BLOCKING AT THE FOLLOWING CONDITIONS:

i. 2" OC EDGE NAIL SPACING ii. 10d NAILS AT 3" OC OR SMALLER EDGE NAIL SPACING

iii. DOUBLE SIDED SHEAR WALL WHERE PANEL JOINTS ALIGN TO THE SAME STUD.

14. HOLDOWNS AND STRAPS OCCUR AT THE BOT OF WALLS. HOLDOWNS AND STRAPS BETWEEN FLOORS ARE CONTROLLED BY THE WALL ABOVE.

15. HOLDOWN DEVICES SHALL BE INSTALLED PER MFR SPECIFICATIONS
16. REF SHEAR WALL DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS

I IO. KEF	10. REF SHEAR WALL DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS								
			SHEATHING			EDGE NAILS		SILL PLAT	E ATTACHMENT
M	ARK	BLOCKED	TYPE	THICKNESS	PLACEMENT	SIZE	SPACING	NAILING	1/2" DIA ANCHOR BOLT SPACING
S	S2-B	YES	WSP-SHEATHING	15/32"	ONE-SIDE	10d	4"	16d AT 4" OC	16"
S	S3-B	YES	WSP-SHEATHING	15/32"	ONE-SIDE	10d	3"	16d AT 3" OC STAGGERED	12"

SCHEDULE - HEADERS

NOTES:		
1. Jamb and	SILL STUDS TO MATCH TYPICAL WALL STU	DS UNO.
MARK	HEADER	COMMENTS
H2-9.25	(2) 1¾"x9¼" LVL	
H2-10	(2) 2x10	
H2-11	(2) 1¾"x11½" LVL	
H3-10	(3) 2x10	

SCHEDULE - BEAMS					
MARK	BEAM SIZE	COMMENTS			
B1	C6X8.2	COORDINATE PLACEMENT WITH			
		CANOPY ROD ATTACHMENT			

(1) 2x8+(1) 2x12

SCHEDULE - JOISTS						
MARK	JOISTS	SPACING	COMMENTS			
1.4	0.0	40"				

2x12 FORMING CANOPY CURB

SCHEDULE - TRUSSES						
MARK	TRUSSES	SPACING	COMMENTS			
T1	ROOF TRUSS	24"	COORDINATE PLACEMENT WITH CANOPY ROD ATTACHMENT			

SCHEDULE - ROOF SHEATHINGS					
MARK	SHEATHING TYPE	SUPPORT ATTACHMENT [EDGE / FIELD]	BLOCKED		
ROOF	5/8" (NOMINAL) APA RATED SHEATHING, EXPOSURE 1, 48/24 SPAN RATING	10d [6" OC / 12" OC]	No		

SCHEDULE - BASE PLATES

1. PROVIDE 5/16" FILLET WELD AT COLUMN TO BASE PLATE CONNECTION.
2. CAST-IN PLACE ANCHORS TO BE HEX-HEAD ASTM F1554 (55 KSI) UNO.
3. POST INSTALLED EPOXY ANCHORS TO BE THREADED ROD INSTALLED IN EPOXY PER MATERIAL SPECIFICATIONS, UNO.

4. POST INSTALLED HILTI HUS-EZ ANCHORS TO BE INSTALLED PER MFR SPECIFICATIONS.
5. BASE PLATE WITH LESS THAN (4) ANCHORS REQUIRE COLUMNS BE DESIGNATED AS POSTS AND SHALL BE TEMPORARILY BRACED DURING ERECTION PER OSHA PART 1926, BY OTHERS. BRACING MAY BE REMOVED ONCE ATTACHMENTS TO MAIN STRUCTURE ARE COMPLETE.
6. MAX SIZES OF ANCHOR-ROD HOLES IN BASE PLATES SHALL FOLLOW TABLE 14-2 OF THE AISC MANUAL AN ADEQUATE WASHED SHOULD BE PROVIDED FOR EA ANCHOR ROD.

MANUAL. AN ADEQUATE WASHER SHOULD BE PROVIDED FOR EA ANCHOR ROD.

7. PLATE WASHERS MUST BE WELDED TO THE BASE PLATE AT SHEAR TRANSFER CONDITIONS (I.E. MOMENT FRAME AND BRACED FRAME COLUMNS). PROVIDE 1/4" FILLET WELD ALL AROUND.

D = VARIES, COORDINATED WITH BEAM FLANGE WIDTH

DI - WIDTH OF BEAM FLANGE							
				ANCHOR B	ANCHOR BOLT EMBED		
TYPE	PLATE SHAPE	PLATE THICKNESS	BOLT DIAMETER	CAST-IN-PLACE (HEX-HEAD)	POST-INSTALLED / BOLT TYPE		
BP: 1	Α	1"	3/4"	8	8"		
BP: 2	В	5/8"	1/2"	8	8"		
BP: 3	E	3/4"	7/8"	8	8"		
SHAPE A				*REF FOOTNOTE 4 1/2 SH			
9			1/2"				

SCHEDULE - CAP PLATES

1. BOLT SIZE NOTE: FOR BEAMS WITH A FLANGE WIDTH LESS THAN 5", 5/8" BOLTS MAY BE USED FOR DETAILING TOLERANCES.
2. bf = WIDTH OF BEAM FLANGE.

3. D = VARIES, COORDINATE WITH BEAM FLANGE WIDTH.
4. W = JOIST GIRDER SEAT WIDTH PLUS 1" FOR FILLET WELD CONNECTION. VERIFY SEAT WIDTH WITH JOIST SUPPLIER PRIOR TO FABRICATION.

5. VERIFY BO	OLT PLACEMENT WITH JOIST S	SUPPLIER.	
PLATE TYPE	SHAPE	PLATE THICKNESS	BOLT SIZE
Α	1	1/4"	3/4"
В	2	1/4"	3/4"
bf MIN. 1/4"			1 1/2" 1 1/2" SEE NOTE 3 SHAPE - 2

SCHEDULE - CONTINUOUS FOOTINGS

	_			
MARK	WIDTH	DEPTH	LONG BARS	TRANS BARS
CF16	1' - A"	36"	(A) #5 BARS ((2) AT T&R)	#3 TIES AT 18" OC

SCHEDULE - PAD FOOTINGS								
MARK	LENGTH	WIDTH	DEPTH	REINFORCING				
F42	3' - 6"	3' - 6"	36"	(10) #5 BARS EACH WAY [(5) AT T&B]				
F54	4' - 6"	4' - 6"	12"	(6) #5 BARS EACH WAY				
F54-F	4' - 6"	4' - 6"	36"	(12) #5 BARS FACH WAY [(6) AT T&B]				

SCHEDULE - SLABS ON GRADE

NOTES: 1. PROVIDE CONTROL JOINTS (1/4 SLAB THICKNESS) SPACED AT 30xSLAB THICKNESS OC BOTH WAYS, NOT SHOWN FOR CLARITY.

WAYS, NOT SHOWN FOR CLARITY.							
	SLAB	WEIGHT					
MARK	THICKNESS	CLASS	SLAB REINFORCING	ADDITIONAL REQUIREMENTS			
SG4	4"	NW	#3 AT 18" OC (C) EA WAY OR	15 MIL VAPOR BARRIER ON			
			6X6 W2.9XW2.9 WWF	OF 3/4" CLEAN, GRADED RO			

SCHEDULE - WOOD WALLS

NOTES:

1. WALL SOLE PLATE ATTACHMENT, UNO: 1/2" DIA CAST-IN-PLACE ANCHORS WITH 7" EMBED AT 32"

OC ATTACHMENT TO CONCRETE OR (2) ROWS OF 16d NAILS AT 16" OC STAGGERED WHEN FASTENING TO WOOD.

2. TYPICAL WALL SHEATHING, UNO: 15/32" APA RATED WSP, EXP. 1, 24/16 SPAN RATING. PANEL EDGES FASTENED WITH 8d NAILS AT 6" OC EDGE AND 12" OC IN THE FIELD.

3. REFERENCE SHEAR WALL SCHEDULE FOR ADDITIONAL NAILING REQUIREMENTS.

3. REFERENCE SHEAR WALL SCHEDULE FOR ADDITIONAL NAILING REQUIREMENTS.

** = LATERAL CLIPS REQUIRED; PROVIDE SIMPSON A35 CLIP AT EACH STUD ABOVE HEADER,
REFERENCE TYPICAL DETAILS FOR CLIP LOCATION.

 MARK
 MATERIAL
 WALL STUDS
 BLOCKING

 DFL6
 DF-L No. 2
 2x6 AT 16"
 AT SHEATHING PANEL EDGES (4'-0" OC MAX)

 DFL6-2
 DF-L No. 2
 2x6 AT 16"
 AT SHEATHING PANEL EDGES (4'-0" OC MAX)

SCHEDULE - WOOD HANGERS

ALL HANGERS ARE SIMPSON PRODUCTS UNO.
 ALL EXTERIOR HANGERS TO BE ZMAX OR GALVANIZED.
 INSTALL ALL HANGERS PER MANUFACTURERS RECOMMENDATIONS.
 AT ROOF AND DECK LOCATIONS, USE FACEMOUT HANGERS UNO.

5. USE SCHEDULE UNO ON PLAN.
6. WHERE FACE-MOUNT HANGER HEADER/FACE FASTENER LENGTH IS GREATER THAN THICKNESS OF SUPPORT MEMBER, FASTENER MUST BE SUBSTITUTED RESPECTIVELY: 0.148" x 3" TO 0.148" x 2 1/2", 0.162" x 3 1/2" TO 0.162" x 2 1/2" PER SIMPSON MANUFACTURER REQUIREMENTS. EOR SHOULD

BE NOTIFIED IF OTHER CONDITIONS EXISTS

	FACE MOUNT	TOP FLANGE	
BEAM	HANGER	HANGER	CONCEALED HANGER
2x12	LUS210	LB212AZ	N/A
2x4 Kickers	LUS4	LB24	N/A
(1) 2x8+(1) 2x12	LUS28	LB28	N/A
2x8	LUS28	LB28	N/A

SCHEDULE - WOOD FASTENING

	IBC TABLE 2304.10.1	_	
DESCRIPTION OF BUILDING			NG AND ATION
ELEMENTS	NUMBER AND TYPE OF FASTENER	EDGE	FIELD
	RUCTURAL PANELS (WSP), SUBFLOOR, ROOF AND TO FRAMING AND PARTICLEBOARD WALL SHEATH		
30. 3/8" - 1/2"	6d COMMON OR DEFORMED (2"x0.113") (SUBFLOOR AND WALL)	6"	12"
	8d COMMON OR DEFORMED (2-1/2"x0.131"x0.281" HEAD) (ROOF) OR RSRS-01 (2-3/8"x0.113") NAIL (ROOF)	6"E	12" ^E
	1-3/4" 16 GAGE STAPLE, 7/16" CROWN (SUBFLOOR AND WALL)	4"	8"
	2-3/8"x0.113"x0.266" HEAD NAIL (ROOF)	3" ^F	3" ^F
	1-3/4" 16 GAGE STAPLE, 7/16" CROWN (ROOF)	3"F	3" ^F
31. 19/32" - 3/4"	8d COMMON (2-1/2"x0.131"); OR 6d DEFORMED (2"x0.113") (SUBFLOOR AND WALL)	6"	12"
	8d COMMON OR DEFORMED (2-1/2"x0.131"x0.281" HEAD) (ROOF) OR RSRS-01 (2-3/8"x0.113") NAIL (ROOF)	6"E	6" ^E
	2-3/8"x0.113" NAIL; OR 2" 16 GAGE STAPLE, 7/16" CROWN	4"	8"
32. 7/8" - 1-1/4"	10d COMMON (3"x0.148"); OR 8d DEFORMED (2-1/2"x0.131"x0.281" HEAD)	6"	12"
	OTHER EXTERIOR WALL SHEATHING		
33. 1/2" FIBERBOARD SHEATHING	1-1/2"x0.120" GALVANIZED ROOFING NAIL (7/16" HEAD DIAMETER)	3"	6"
34. 25/32" FIBERBOARD SHEATHING	1-3/4"x0.120" GALVANIZED ROOFING NAIL (7/16" HEAD DIAMETER)	3"	6"
WOOD STR	UCTURAL PANELS, COMBINATION SUBFLOOR UNI FRAMING	DERLAYMEN	ТТО
35. 3/4" AND LESS	8d COMMON (2-1/2"x0.131"); OR 6d DEFORMED (2"x0.113")	6"	12"
36. 7/8" - 1"	8d COMMON (2-1/2"x0.131"); OR 6d DEFORMED (2"x0.113")	6"	12"
37. 1-1/8" - 1-1/4"	10d COMMON (3"x0.148"); OR 8d DEFORMED (2-1/2"x0.131")	6"	12"
	PANEL SIDING TO FRAMING		
38. 1/2" OR LESS	6d CORROSION-RESISTANT SIDING (1-7/8"x0.106"); OR 6d CORROSION-RESISTANT CASING (2"x0.099")	6"	12"
39. 5/8"	8d CORROSION-RESISTANT SIDING (2-3/8"x0.128""); OR 8d CORROSION-RESISTANT CASING (2-1/2"x0.113")	6"	12"
	INTERIOR PANELING		
40. 1/4"	4d CASING (1-1/2"x0.080"); OR 4d FINISH (1-1/2"x0.072")	6"	12"
41. 3/8"	6d CASING (2"x0.099"); OR	6"	12"

NOTES:

A. NAILS SPACED AT 6 INCHES AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48 INCHES OR MORE.
FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS,
REFER TO IBC SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR

6d FINISH (PANEL SUPPORTS AT 24 INCHES)

SPACING SHALL BE 6 INCHES ON CENTER ON THE EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS. PANEL SUPPORTS AT 16 INCHES (20 INCHES IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED)

WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.

RSRS-01 IS A ROOF SHEATHING RING SHANK NAIL MEETING THE SPECIFICATIONS IN ASTM F1667.

TABULATED FASTENER REQUIREMENTS APPLY WHERE THE ULTIMATE DESIGN WIND SPEED IS LESS THAN 140 MPH. FOR WOOD STRUCTURAL PANEL ROOF SHEATHING ATTACHED TO GABLE-END ROOF FRAMING AND TO INTERMEDIATE SUPPORTS WITHIN 48 INCHES OF ROOF EDGES AND RIDGES, NAILS SHALL BE SPACED AT 4 INCHES ON CENTER WHERE THE ULTIMATE DESIGN WIND SPEED IS GREATER THAN 130 MPH IN EXPOSURE B OR GREATER THAN 110 MPH IN EXPOSURE C. SPACING EXCEEDING 6 INCHES ON CENTER AT INTERMEDIATE SUPPORTS SHALL BE PERMITTED WHERE THE FASTENING IS

DESIGNED PER THE AWC NDS.
FASTENING IS ONLY PERMITTED WHERE THE ULTIMATE DESIGN WIND SPEED IS LESS THAN OR EQUAL TO 110 MPH.

NAILS AND STAPLES ARE CARBON STEEL MEETING THE SPECIFICATIONS OF ASTM F1667.
CONNECTIONS USING NAILS AND STAPLES OF OTHER MATERIALS, SUCH AS STAINLESS STEEL, SHALL
BE DESIGNED BY ACCEPTABLE ENGINEERING PRACTICE OR APPROVED UNDER SECTION 104.11.

SCHEDULE - HOLDDOWNS

1. EMBEDMENT DEPTH IS FROM TOP OF FOOTING. INCREASE ANCHOR LENGTH AS REQUIRED FOR SLAB THICKNESS.

2. FOR HDU14 OR GREATER USE HEAVY HEX NUT.

REQUIREMENTS.

3. HD19 REQUIRES DF END STUDS AND HD EMBED PLATE.
4. GC TO VERIFY LOCATION OF ANCHOR BOLTS PRIOR TO FOUNDATION WALL REBAR INSPECTION.
5. ALL HOLDOWNS ARE SIMPSON PRODUCTS UNO.
6. FOR POST-INSTALLED ANCHORS REF MATERIAL SPECIFICATIONS FOR EPOXY AND ANCHOR ROD

26. BUILT-UP GIRDERS AND

BEAM, 2" LUMBER LAYERS

JOISTS OR RAFTERS

JOIST, RAFTER, OR TRUSS

20d COMMON (4"x0.192")

10d BOX (3"x0.128")

(2) 20d COMMON (4"x0.192"); OR

(3) 10d BOX (3"x0.128")

(4) 10d BOX (3"x0.128")

(4) 10d BOX (3"x0.128")

(2) 10d BOX (3"x0.128")

27. LEDGER STRIP SUPPORTING (3) 16d COMMON (3-1/2"x0.162"); OR

28. JOIST TO BAND JOIST OR RIM (3) 16d COMMON (3-1/2"x0.162"); OR

29. BRIDGING OR BLOCKING TO (2) 8d COMMON (2-1/2"x0.131"); OR

32" OC, FACE NAIL AT

TOP AND BOTTOM

STAGGERED ON

OPPOSITE SIDES

24" OC FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES ENDS AND AT EA

SPLICE, FACE NAIL

EA JOIST OR RAFTER,

FACE NAIL

END NAIL

EA END, TOENAIL

MARK	HOLDDOWN	ANHOR BOLT DIAMETER	MIN EMBEDMEN
HDU2	HDU2-SDS2.5	5/8"	5"
HDU5	HDU5-SDS2.5	5/8"	5"
HDU8	HDU8-SDS2.5	7/8"	7"
HDU11	HDU11-SDS2.5	1"	9"
HDU14	HDU14-SDS2.5	1"2	11"
HD19	HD19 ³	1 1/4"2	HDEP #1

SCHEDULE - WOOD FASTENING

DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
DUILDING ELEMEN19	ROOF	LUCATION
1. BLOCKING BETWEEN CEILING JOISTS, RAFTERS OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW.	(3) 8d COMMON (2-1/2"x0.131"); OR (3) 10d BOX (3"x0.128")	EA END, TOENAIL
BLOCKING BETWEEN RAFTERS OR TRUSS NOT AT THE WALL	(2) 8d COMMON (2-1/2"x0.131")	EA END, TOENAIL
TOP PLATE, TO RAFTER OR TRUSS.	(2) 16d COMMON (3-1/2"x0.162")	END NAIL
FLAT BLOCKING TO TRUSS AND WEB FILLER	16d COMMON (3-1/2"x0.162") AT 6" OC	FACE NAIL
2. CEILING JOIST TO TOP PLATE	(3) 8d COMMON (2-1/2"x0.131"); OR (3) 10d BOX (3"x0.128")	EA JOIST, TOENAIL
3. CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS (NO THRUST)	(3) 16d COMMON (3-1/2"x0.162"); OR (4) 10d BOX (3"x0.128")	FACE NAIL
4. CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT)	PER IBC TABLE 2308.7.3.1	FACE NAIL
5. COLLAR TIE TO RAFTER	(3) 10d COMMON (3"x0.148"); OR (4) 10d BOX (3"x0.128")	FACE NAIL
6. RAFTER OR ROOF TRUSS TO TOP PLATE	(3) 10d COMMON (3"x0.148"); OR (3) 16d BOX (3-1/2"x0.135"); OR (4) 10d BOX (3"x0.128")	(2) TOENAILS ONE SIDE AND (1) TOENAL OPP SIDI
7. ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS; OR	(2) 16d COMMON (3-1/2"x0.162"); OR (3) 10d BOX (3"x0.128")	END NAIL
ROOF RAFTER TO 2" RIDGE BEAM	(3) 10d COMMON (3"x0.148"); OR (4) 16d BOX (3-1/2"x0.135"); OR (4) 10d BOX (3"x0.128")	TOENAIL
	WALL	
8. STUD TO STUD (NOT AT	16d COMMON (3-1/2"x0.162"); OR	24" OC, FACE NAIL
BRACED WALL PANELS)	10d BOX (3"x0.128")	16" OC, FACE NAIL
9. STUD TO STUD AND ABUTTING STUDS AT INTERSECTION WALL	16d COMMON (3-1/2"x0.162")	16" OC, FACE NAIL
CORNERS (AT BRACED WALL PANELS)	16d BOX (3-1/2"x0.135")	12" OC, FACE NAIL
10. BUILT-UP HEADER (2" TO 2" HEADER)	16d COMMON (3-1/2"x0.162")	16" OC EA EDGE, FACE NAIL
	16d BOX (3-1/2"x0.135")	12" OC EA EDGE, FACE NAIL
11. CONTINUOUS HEADER TO STUD	(4) 8d COMMON (2-1/2"x0.131"); OR (4) 10d BOX (3"x0.128")	TOENAIL
12. TOP PLATE TO TOP PLATE	16d COMMON (3-1/2"x0.162") 10d BOX (3"x0.128")	16" OC FACE NAIL 12" OC FACE NAIL
13. TOP PLATE TO TOP PLATE, AT END JOINTS	(8) 16d COMMON (3-1/2"x0.162"); OR (12) 10d BOX (3"x0.128")	EA SIDE OF END JOINT, FACE NAIL (MIN 24" LAP SPLICE LENGTH EA SIDE OF END JOINT)
14. BOTTOM PLATE TO JOIST, RIM	16d COMMON (3-1/2"x0.162")	16" OC FACE NAIL
JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16d BOX (3-1/2"x0.135")	12" OC FACE NAIL
15. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING AT BRACED WALL PANELS	(2) 16d COMMON (3-1/2"x0.162"); OR (3) 16d BOX (3-1/2"x0.135")	16" OC FACE NAIL
16. STUD TO TOP OR BOTTOM PLATE	(4) 8d COMMON (2-1/2"x0.131"); OR (4) 10d BOX (3"x0.128"); OR	TOENAIL
	(2) 16d COMMON (3-1/2"x0.162"); OR (3) 10d BOX (3"x0.128")	END NAIL
17. TOP PLATE, LAPS AT CORNERS AND INTERSECTIONS	(2) 16d COMMON (3-1/2"x0.162"); OR (3) 10d BOX (3"x0.128")	FACE NAIL
18. 1" BRACE TO EA STUD AND PLATE	(2) 8d COMMON (2-1/2"x0.131"); OR (2) 10d BOX (3"x0.128")	FACE NAIL
19. 1"x6" SHEATHING TO EA BEARING		FACE NAIL
20. 1"x8" AND WIDER SHEATHING TO EA BEARING	(3) 8d COMMON (2-1/2"x0.131"); OR (3) 10d BOX (3"X0.128")	FACE NAIL
	FLOOR	
21. JOIST TO SILL, TOP PLATE, OR GIRDER	(3) 8d COMMON (2-1/2"x0.131"); OR (3) 10d BOX (3"x0.128")	TOENAIL
22. RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR OTHER FRAMING BELOW	8d COMMON (2-1/2"x0.131"); OR 10d BOX (3"X0.128")	6" OC, TOENAIL
23. 1"x6" SUBFLOOR OR LESS TO EA JOIST	(2) 8d COMMON (2-1/2"x0.131"); OR (3) 10d BOX (3"x0.128")	FACE NAIL
24. 2" SUBFLOOR TO JOIST OR GIRDER	(2) 16d COMMON (3-1/2"x0.162")	FACE NAIL
25. 2" PLANKS (PLANK & BEAM -	(2) 16d COMMON (3-1/2"x0.162")	EA BEARING, FACE
FLOOR & ROOF) 26. BUILT-UP GIRDERS AND	20d COMMON (4"x0.192")	NAIL 32" OC. FACE NAIL AT

AR	STE). L _d	CLA	SS B	BAR S		STD. Ld		CLASS B	
ZE	TYP.	TOP	TYP.	TOP	SIZE	TYP.	TOP	TYP.	TOP	
‡ 3	17"	22"	22"	28"	#3	15"	19"	19"	25"	
‡ 4	22"	29"	29"	38"	#4	19"	25"	25"	33"	
‡5	28"	36"	37"	47"	#5	24"	31"	32"	41"	
‡ 6	33"	43"	43"	56"	#6	29"	37"	38"	49"	
‡7	48"	63"	63"	82"	#7	42"	54"	55"	71"	
‡ 8	55"	72"	72"	94"	#8	48"	62"	63"	81"	
ŧ9	62"	81"	81"	106"	#9	54"	70"	71"	91"	
STANDARD HOOKS & BAR BENDS										
AR						0° HO)K	90° H	юок	
AR ZE	L	dh		∋"		0° HO	J	90° H	IOOK A	
			"(. 18	_				
ZE	6	dh	"(2 1	Э"	18 L _{ext}	Α	J	L _{ext}	Α	
ZE ‡3	6	dh)"	"(2 1 3)"	18 L _{ext} 2 1/2"	A 5"	J	L _{ext} 4 1/2"	A 6"	
ZE ‡3 ‡4	8	dh S"	"(2 1 3 3 3	9" 1/4" 8"	18 L _{ext} 2 1/2" 2 1/2"	A 5" 6"	J 3" 4"	L _{ext} 4 1/2" 6"	A 6" 8"	
ZE #3 #4 #5	6 8 10	dh 5" 5" 0"	"(2 1 3 3 3 4 1)" /4" 8" 8/4"	18 L _{ext} 2 1/2" 2 1/2" 2 1/2"	A 5" 6" 7"	3" 4" 5"	L _{ext} 4 1/2" 6" 7 1/2"	A 6" 8" 10"	
ZE #3 #4 #5 #6	6 8 10 11	dh 5" 5" 0" 2"	2 1 3 3 3 3 4 1 5 1	9" /4" 8" 8/4" /2"	18 L _{ext} 2 1/2" 2 1/2" 2 1/2" 3"	A 5" 6" 7" 8"	3" 4" 5" 6"	L _{ext} 4 1/2" 6" 7 1/2" 9"	A 6" 8" 10" 12"	
ZE #3 #4 #5 #6	6 8 11 12 14	dh 5" 0" 2" 4"	2 1 3 3 3 3 4 1 5 1	9" /4" 8" 8/4" /2" /4"	18 L _{ext} 2 1/2" 2 1/2" 2 1/2" 3" 3 1/2"	5" 6" 7" 8" 10"	J 3" 4" 5" 6" 7"	L _{ext} 4 1/2" 6" 7 1/2" 9" 10 1/2"	A 6" 8" 10" 12" 14"	

#9	18"	9 1/2"	4 1/2"	15"	11 3/4"	13 1/2"	19"				
E	BAR BENDS	180° I	ноок		9	0° HOOK	(
<u> </u>	Θ	_ D _b		A	<u></u>) _b					
D _b		CRITICAL SECTION	-ext	Θ	SECTION O O	<u> </u>	A A				
	STIRRUPS, TIES, & HOOPS										

BAR	"⊝"		90° H	ООК	13	5° H	ю	180°	HOOK
SIZE			Lext	Α	Lex	t	Α	Lext	Α
#3	1 1/2"		3"	4"	3"		4 1/4"	2 1/2'	' 4"
#4	2"		3"	4 1/2"	3"		4 1/2"	2 1/2'	5"
#5	2 1/2"		3 3/4"	6"	3 3/4	4"	5 1/2"	2 1/2'	' 6"
#6	4 1/2"		9"	12"	4 1/2	2"	8"	3"	8"
#7	5 1/4"		10 1/2"	14"	5 1/4	4"	9"	3 1/2'	10"
#8	6"		12"	16"	6"		10 1/2"	4"	11"
	90° HOOK		135° HOOK 180° HOOK				OK		
D _b A L _{ext} A						- D _b	O Lext		
RECTANGULAR BEAM/COLUMN TIE			CIRCULAR COLUMN/PIER TIE		CI	BAR EARAN	CE :	BAR SPLICE	
†	0		OTD						

NOTES:

1. USE THE ABOVE TABLE UNLESS NOTED OTHERSIZE ON PLAN OR IN

2. PROVIDE 6" LAP AT ALL WELDED WIRE FABRIC JOINTS.
3. PROVIDE 1 D₀ (1" MINIMUM) CLEARANCE BETWEEN ADJACENT BARS.
4. PROVIDE WIRE TIES AT EACH END OF BAR SPLICE.
5. DO NOT PROVIDE CLASS A SPLICE UNLESS SPECIFICALLY DETAILED.

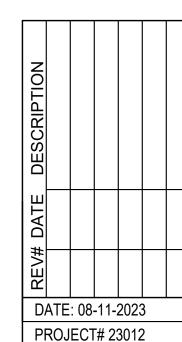
GUY GRONBERG
ARCHITECTS, P.C.
113 SE 3rd St.
Lee's Summit, MO 64063
Phone 816.524.0878

RELEASED FOR CONSTRUCTION As Noted on Plans Review

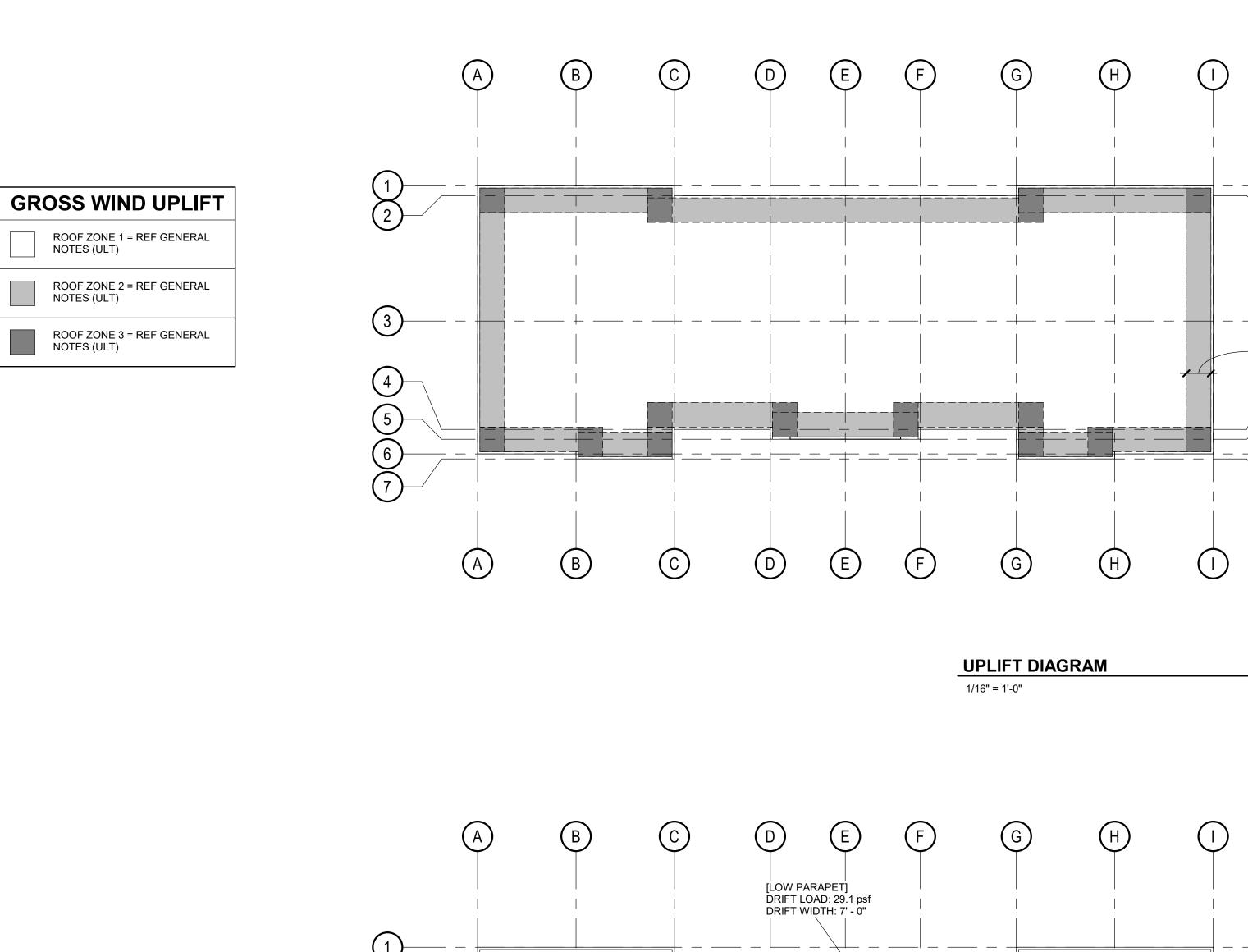


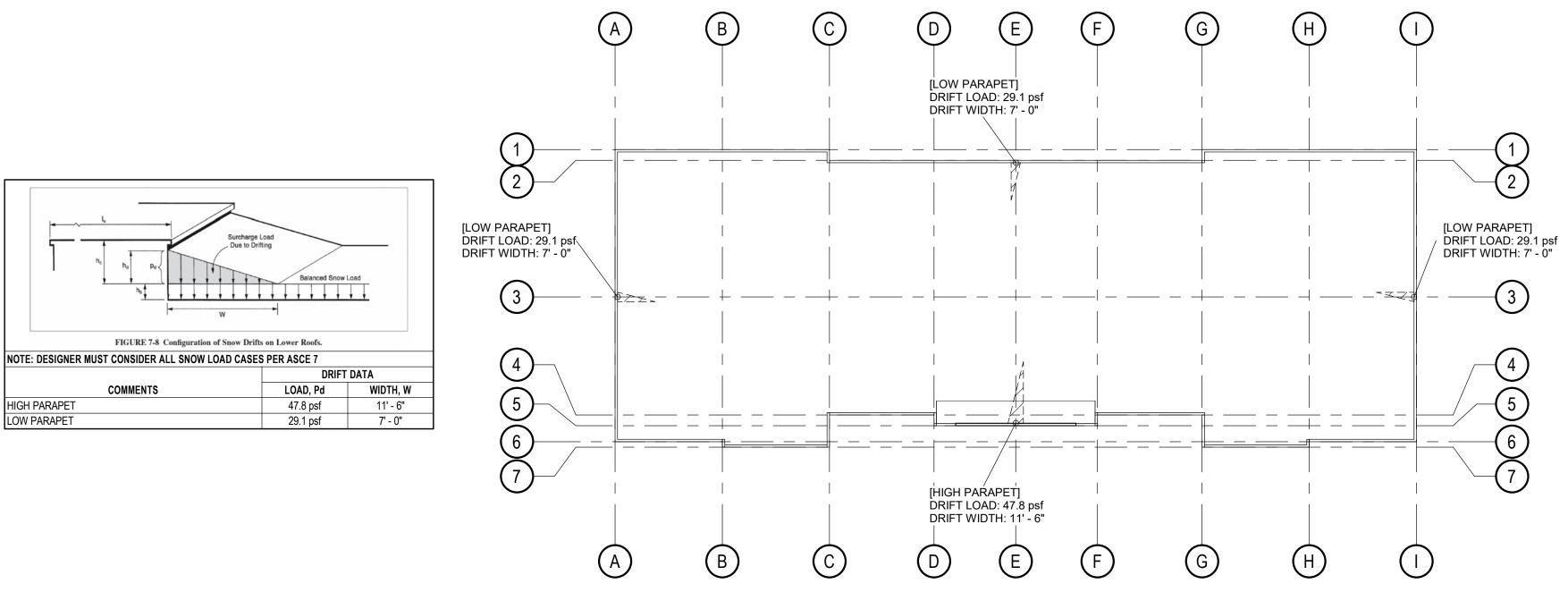
DOUGLAS

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SNOW DRIFT DIAGRAM

1/16" = 1'-0"





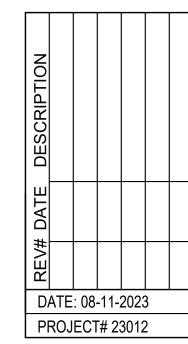


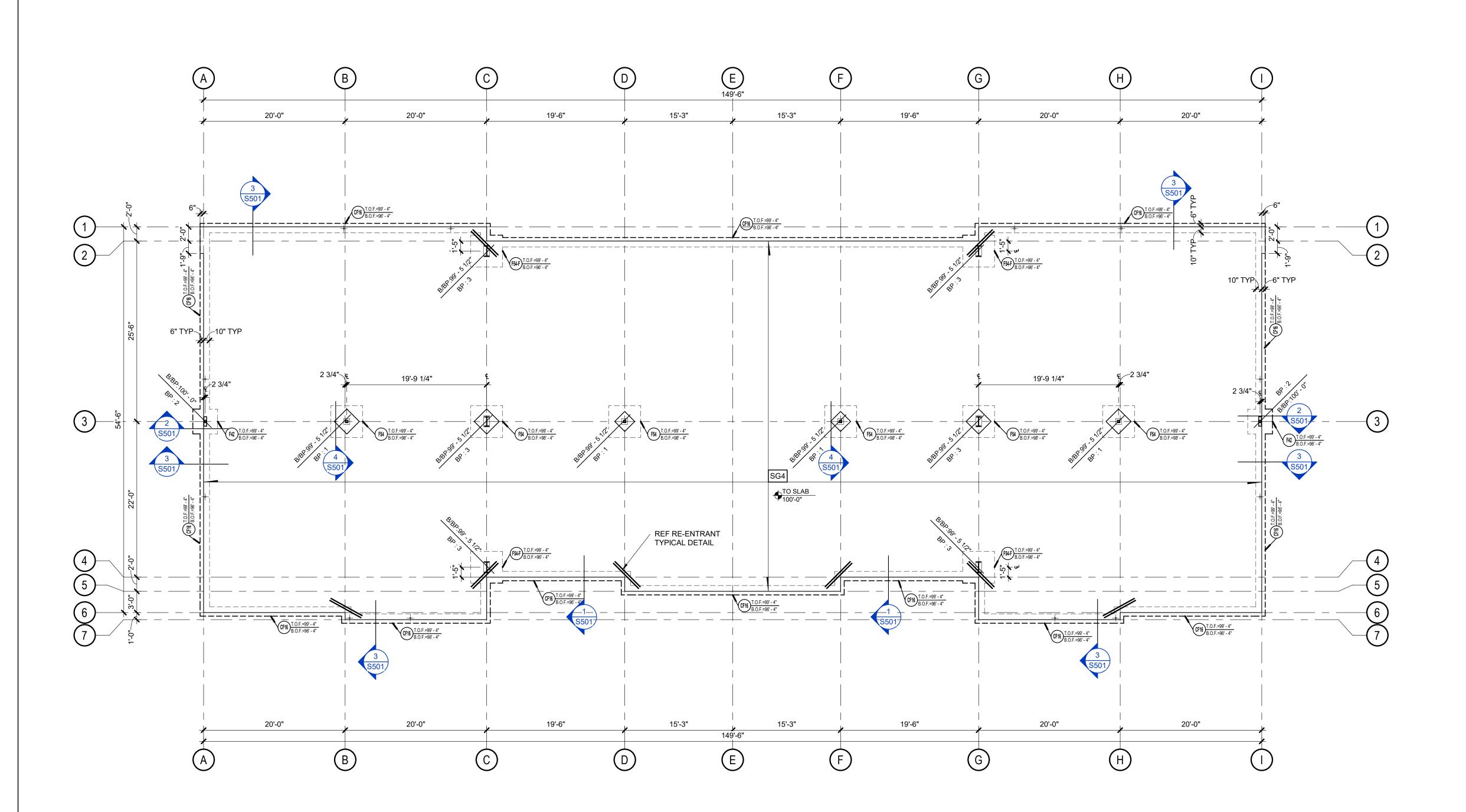












PLAN NOTES - FOUNDATIONS

1. CONTRACTOR TO VERIFY ALL FOUNDATION ELEVATIONS AND STEPS PER SITE

2. TOP OF SLAB ELEVATION SHOWN IN PLAN IS FOR REFERENCE ONLY.

3. REFERENCE ARCHITECTURAL DRAWINGS FOR WALL OPENING DIMENSIONS, EXTERIOR FINISHES AND ADDITIONAL NOTES.

 REFERENCE GENERAL NOTES SHEET FOR ADDITIONAL FOUNDATION SPECIFICATIONS.
 CONTRACTOR TO CONTACT APEX ENGINEERS, INC AT LEAST 48 HRS IN ADVANCE OF ANY CONCRETE POUR.

	SCHEDULE - PAD FOOTINGS						
MARK	LENGTH	WIDTH	DEPTH	REINFORCING			
F42	3' - 6"	3' - 6"	36"	(10) #5 BARS EACH WAY [(5) AT T&B]			
F54	4' - 6"	4' - 6"	12"	(6) #5 BARS EACH WAY			
F54-F	4' - 6"	4' - 6"	36"	(12) #5 BARS EACH WAY [(6) AT T&B]			

SCHEDULE - CONTINUOUS FOOTINGS

MARK	WIDTH	DEPTH	LONG BARS	TRANS BARS
CF16	1' - Δ"	36"	(4) #5 BARS ((2) AT T&R)	#3 TIES AT 18" OC

SCHEDULE - SLABS ON GRADE

1. PROVIDE CONTROL JOINTS (1/4 SLAB THICKNESS) SPACED AT 30xSLAB THICKNESS OC BOTH WAYS, NOT SHOWN FOR CLARITY.

MARK THICKNESS CLASS SLAB REINFORCING ADDITIONAL REQUIREMENTS

SG4 4" NW #3 AT 18" OC (C) EA WAY OR 15 MIL VAPOR BARRIER ON 4" OF 3/4" CLEAN, GRADED ROCK

SCHEDULE - BASE PLATES

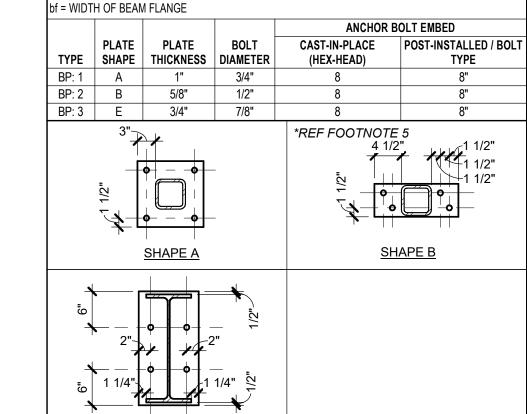
NOTES: 1. PROVIDE 5/16" FILLET WELD AT COLUMN TO BASE PLATE CONNECTION.

2. CAST-IN PLACE ANCHORS TO BE HEX-HEAD ASTM F1554 (55 KSI) UNO.
3. POST INSTALLED EPOXY ANCHORS TO BE THREADED ROD INSTALLED IN EPOXY PER MATERIAL SPECIFICATIONS, UNO.

4. POST INSTALLED HILTI HUS-EZ ANCHORS TO BE INSTALLED PER MFR SPECIFICATIONS.
5. BASE PLATE WITH LESS THAN (4) ANCHORS REQUIRE COLUMNS BE DESIGNATED AS POSTS AND SHALL BE TEMPORARILY BRACED DURING ERECTION PER OSHA PART 1926, BY OTHERS. BRACING MAY BE REMOVED ONCE ATTACHMENTS TO MAIN STRUCTURE ARE COMPLETE.
6. MAX SIZES OF ANCHOR-ROD HOLES IN BASE PLATES SHALL FOLLOW TABLE 14-2 OF THE AISC

MANUAL. AN ADEQUATE WASHER SHOULD BE PROVIDED FOR EA ANCHOR ROD.
7. PLATE WASHERS MUST BE WELDED TO THE BASE PLATE AT SHEAR TRANSFER CONDITIONS (I.E. MOMENT FRAME AND BRACED FRAME COLUMNS). PROVIDE 1/4" FILLET WELD ALL AROUND.

D = VARIES, COORDINATED WITH BEAM FLANGE WIDTH bf = WIDTH OF BEAM FLANGE





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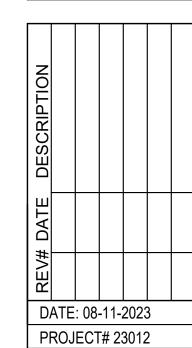




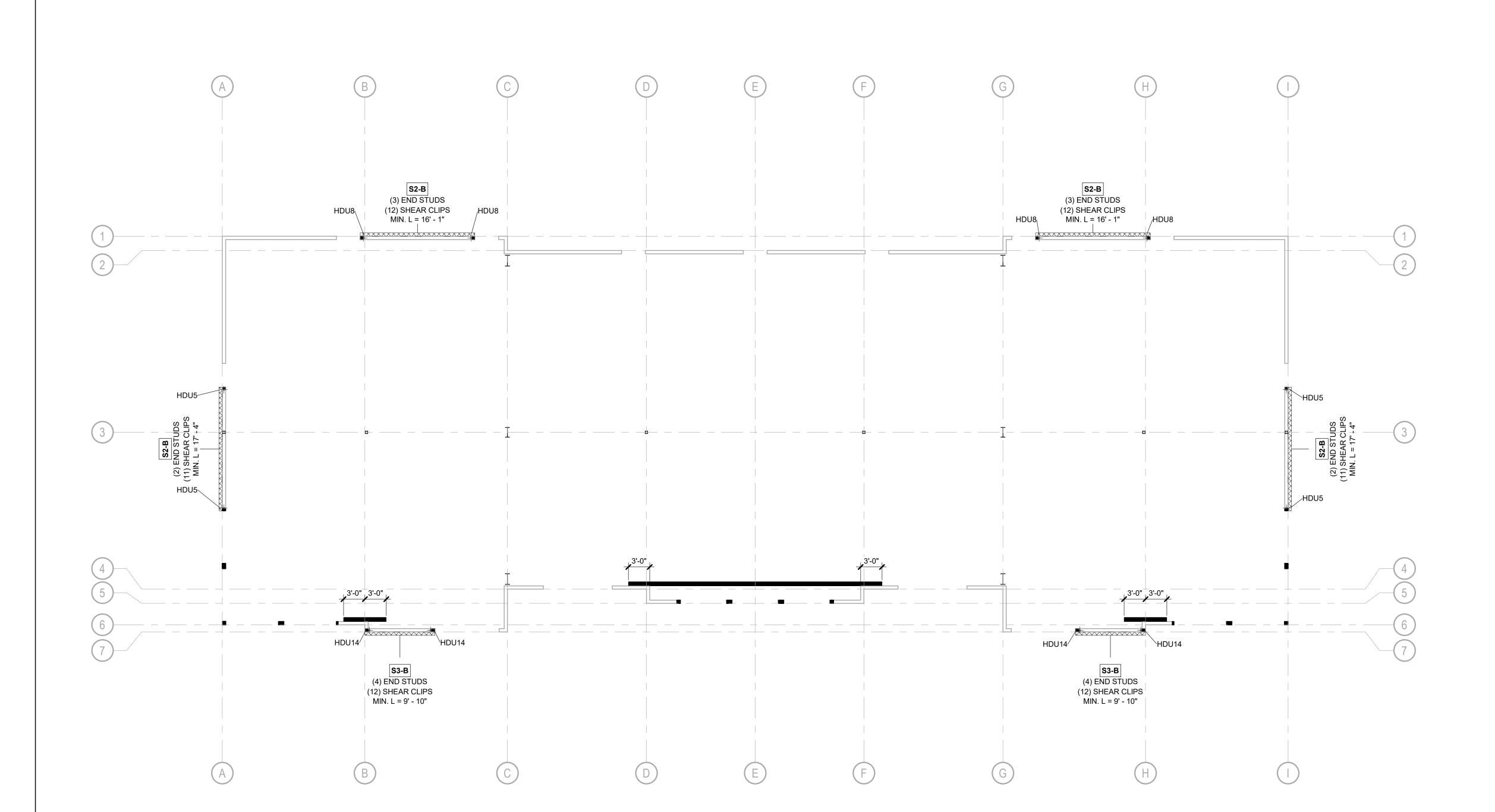












PLAN NOTES - DIAPHRAGM

1. ROOF SHEATHING THICKNESS AND SPAN RATING MAY BE INCREASED FOR ROOFING MATERIAL REQUIREMENTS AND WARRANTIES. SHEATHING THICKNESS INCREASE SHALL BE

COORDINATED WITH ARCHITECT. 2. CONTRACTOR SHALL PROVIDE ADDITIONAL SOLID BLOCKING AS REQUIRED FOR DIAPHRAGM NAILING REQUIREMENTS. SOLID BLOCKING SHALL BE OF MIN NOMINAL 2x4 IN

SIZE AND SHALL BE MIN #3 GRADE MATERIAL. 3. SOLID BLOCKING SHALL BE CUT TIGHT TO ADJACENT MEMBERS TO ENSURE ADEQUATE LOAD TRANSFER.

4. NAIL TYPE USED IN FLOOR/ROOF SHEATHING SHALL BE COMMON OR GALVANIZED BOX NAIL. SINKER NAILS, COOLER NAILS, ETC ARE NOT PERMITTED AT THESE APPLICATIONS. 5. NAILS USED FOR FLOOR/ROOF SHEATHING SHALL HAVE FULL HEADS. CLIPPED NAILS ARE NOT PERMITTED IN THESE APPLICATIONS.

	LEGEND - DIAPHRAGM
	= DIAPHRAGM BOUNDARY NAILING: 10d NAILS AT 6" OC, CONTRACTOR SHALL ADD BLOCKING AS REQUIRED.
	= DIAPHRAGM BOUNDARY NAILING: 10d NAILS AT 4" OC, CONTRACTOR SHALL ADD BLOCKING AS REQUIRED.
	= DIAPHRAGM BOUNDARY NAILING: 10d NAILS AT 3" OC STAGGERED, CONTRACTOR SHALL ADD BLOCKING AS REQUIRED.
	= DIAPHRAGM BOUNDARY NAILING: 10d NAILS AT 2" OC STAGGERED, CONTRACTOR SHALL ADD BLOCKING AS REQUIRED.
/////.	= BLOCKED DIAPHRAGM WITH PANEL EDGE FASTENING AT 6" OC EDGES, 12" OC FIELD.
	= SIMPSON LSTA12 STRAP, ATTACH WITH (10) 10d NAILS AT EACH TRUSS . ATTACH TO 2x6 CONT BLOCKING BETWEEN TRUSSES, INSTALL STRAP PER SIMPSON SPECIFICATIONS.
	= SIMPSON CS14 COIL STRAP INSTALLED DIRECTLY OVER SHEATHING (ALT OF (2) CSHP18 COIL STRAPS). INSTALL (2) PLIES OF BLOCKING AS REQUIRED.

SCHEDUL	.E - HOL	DDOWNS
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1. EMBEDMENT DEPTH IS FROM TOP OF FOOTING. INCREASE ANCHOR LENGTH AS REQUIRED FOR SLAB THICKNESS.

2. FOR HDU14 OR GREATER USE HEAVY HEX NUT.

3. HD19 REQUIRES DF END STUDS AND HD EMBED PLATE.

4. GC TO VERIFY LOCATION OF ANCHOR BOLTS PRIOR TO FOUNDATION WALL REBAR INSPECTION. 5. ALL HOLDOWNS ARE SIMPSON PRODUCTS UNO.

6. FOR POST-INSTALLED ANCHORS REF MATERIAL SPECIFICATIONS FOR EPOXY AND ANCHOR ROD REQUIREMENTS.

MARK	HOLDDOWN	ANHOR BOLT DIAMETER	MIN EMBEDMENT
HDU2	HDU2-SDS2.5	5/8"	5"
HDU5	HDU5-SDS2.5	5/8"	5"
HDU8	HDU8-SDS2.5	7/8"	7"
HDU11	HDU11-SDS2.5	1"	9"
HDU14	HDU14-SDS2.5	1"2	11"
HD19	HD19 ³	1 1/4"2	HDEP #1

SCHEDULE - SHEAR WALLS

1. WSP = WOOD STRUCTURAL PANEL PLYWOOD OR OSB.

3. SHEAR WALL NAILS SHALL HAVE FULL HEADS, CLIPPED NAILS ARE NOT ALLOWED.

4. ALL NAILS SHALL BE DRIVEN SUCH THAT THE HEAD IS FLUSH WITH FACE OF SHEATHING. DO NOT OVERDRIVE NAILS.

5. SOLEPLATE NAILS SHALL BE INSTALLED SUCH THAT THE NAILS FULLY ENGAGE THE RIM BOARD BELOW (IF APPLICABLE). REF TYP DETAILS.

6. PROVIDE INTERMEDIATE NAILING (FIELD) AT 12" OC, TYP.

WASHER WITH EDGE OF PLATE LOCATED WITHIN 1/2" OF SHEAR WALL SHEATHING. 9. SHEAR WALL CLIPS TO BE A35/LTP4, REF PLAN FOR NUMBER OF CLIPS PER SHEAR WALL, 48" OC MAX UNO.

10. AT WALLS DESIGNATED AS FORCE TRANSFER SHEAR WALLS, PROVIDE SIMPSON STRAP ABOVE AND BELOW ALL OPENINGS PER SHEAR WALL DETAIL.

11. END STUDS MUST CONTINUE DOWN TO FOUNDATION WALL UNLESS INTERRUPTED BY TRANSFER BEAM.

13. PROVIDE DOUBLE STUDS AND BLOCKING NAILED TOGETHER WITH (2) 16d NAILS AT 6" OC OR 3" NOMINAL STUDS AND BLOCKING AT THE FOLLOWING CONDITIONS:

ii. 10d NAILS AT 3" OC OR SMALLER EDGE NAIL SPACING

iii. DOUBLE SIDED SHEAR WALL WHERE PANEL JOINTS ALIGN TO THE SAME STUD.

14. HOLDOWNS AND STRAPS OCCUR AT THE BOT OF WALLS. HOLDOWNS AND STRAPS BETWEEN FLOORS ARE CONTROLLED BY THE WALL ABOVE.

15. HOLDOWN DEVICES SHALL BE INSTALLED PER MFR SPECIFICATIONS 16. REF SHEAR WALL DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS

		SHEATHING			EDGE NAILS		SILL PLAT	E ATTACHMENT
MARK	BLOCKED	TYPE	THICKNESS	PLACEMENT	SIZE	SPACING	NAILING	1/2" DIA ANCHOR BOLT SPACING
S2-B	YES	WSP-SHEATHING	15/32"	ONE-SIDE	10d	4"	16d AT 4" OC	16"
S3-B	YES	WSP-SHEATHING	15/32"	ONE-SIDE	10d	3"	16d AT 3" OC STAGGERED	12"

2. NAIL SIZES GIVEN ARE FOR COMMON NAILS OR GALVANIZED (HOT-DIPPED OR TUMBLED) BOX NAILS. SINKER NAILS, COOLER NAILS, ETC. SHALL NOT BE USED FOR WSP SHEAR WALLS.

7. PROVIDE (2) TOTAL RIMBOARDS OR A LAYER OF BLOCKING IN ADDITION TO THE RIMBOARD WHERE SOLE PLATE NAILING REQUIRES 2 ROWS OF FASTENERS PER SCHEDULE. 8. SILL ANCHORS MAY BE CAST-IN-PLACE J-BOLTS WITH 8" EMBED OR SIMPSON TITEN HD SCREW ANCHORS WITH 6" EMBED. REF SCHEDULE FOR BOLT DIA. BOTH BOLT TYPES REQUIRE 0.229"x3"x3" PLATE

12. JACK STUDS FOR OPENINGS DO NOT COUNT TOWARDS THE REQUIRED NUMBER OF END STUDS IN A SHEAR WALL.

i. 2" OC EDGE NAIL SPACING

		SHEATHING			EDGE NAILS		SILL PLATI	E ATTACHMENT
MARK	BLOCKED	TYPE	THICKNESS	PLACEMENT	SIZE	SPACING	NAILING	1/2" DIA ANCHOR BOLT SPACING
S2-B	YES	WSP-SHEATHING	15/32"	ONE-SIDE	10d	4"	16d AT 4" OC	16"
S3-B	YES	WSP-SHEATHING	15/32"	ONE-SIDE	10d	3"	16d AT 3" OC	12"

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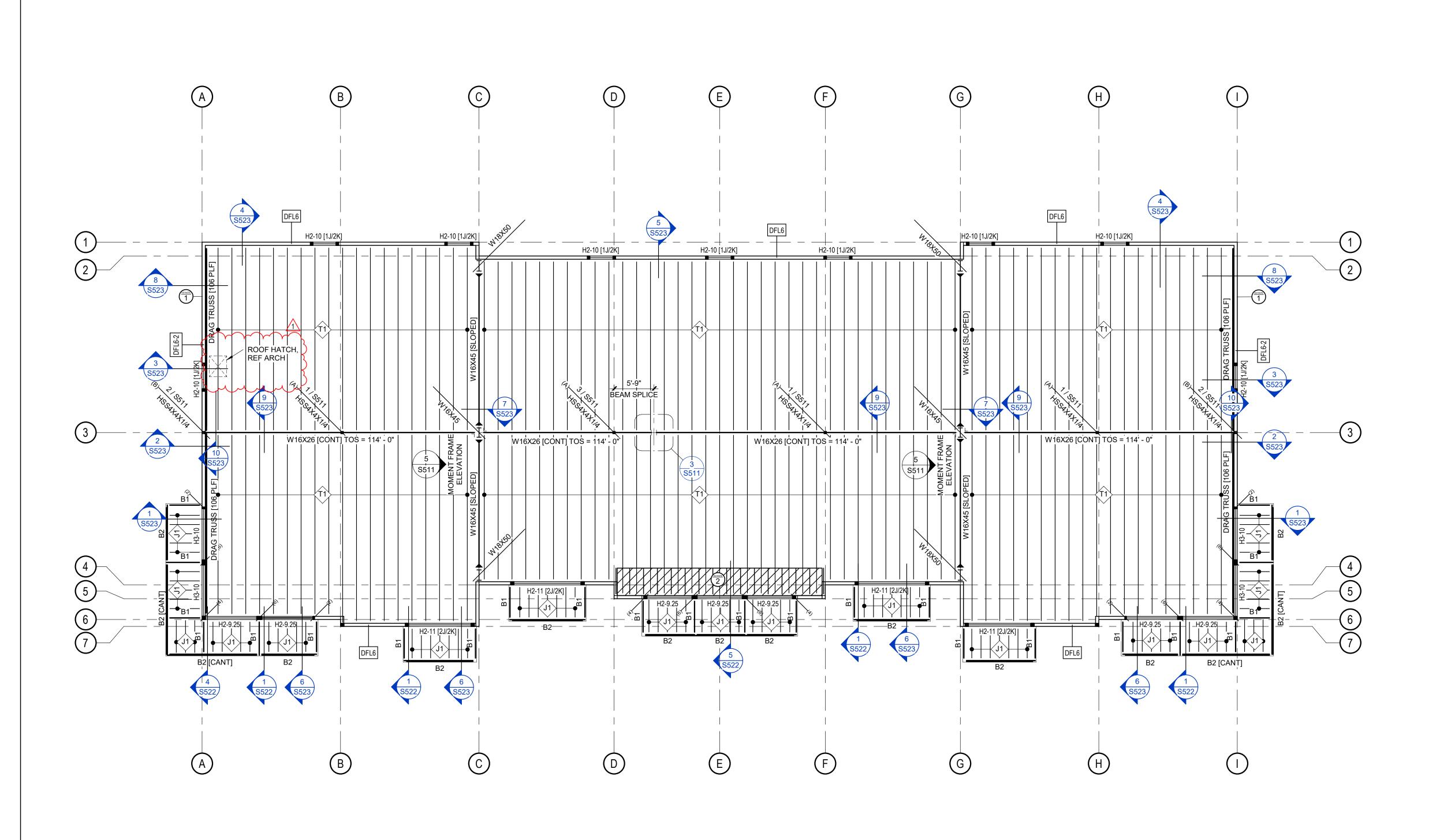












PLAN NOTES - WOOD ROOF FRAMING

1. REFERENCE "LOADING DIAGRAMS" SHEET FOR DESIGN LOADS. 2. WOOD COLUMNS AND STUD PACKS TO BE CONTINUOUS DOWN TO FOUNDATION OR STEEL FRAMING. PROVIDE BLOCKING AS REQUIRED TO MAINTAIN CONTINUITY.

3. REF PLANS FOR TOP OF STEEL BEAM ELEVATIONS. 4. ROOF CONSTRUCTION: REFERENCE ARCHITECTURAL DRAWINGS FOR DIMENSIONS, ROOF MATERIAL, ROOF SLOPE, WATERPROOFING MEMBRANE, AND INSULATION.

5. REFERENCE MECHANICAL DRAWINGS FOR ADDITIONAL RTU INFORMATION. 6. CONTRACTOR SHALL COORDINATE SIZE AND LOCATION OF OPENINGS WITH MECHANICAL, ELECTRICAL, AND ARCHITECTURAL DRAWINGS.

7. REFERENCE GENERAL NOTES AND SPECIFICATIONS FOR ABBREVIATIONS, SYMBOLS, AND

SCHEDULE - WOOD WALLS

1. WALL SOLE PLATE ATTACHMENT, UNO: 1/2" DIA CAST-IN-PLACE ANCHORS WITH 7" EMBED AT 32" OC ATTACHMENT TO CONCRETE OR (2) ROWS OF 16d NAILS AT 16" OC STAGGERED WHEN 2. TYPICAL WALL SHEATHING, UNO: 15/32" APA RATED WSP, EXP. 1, 24/16 SPAN RATING. PANEL

EDGES FASTENED WITH 8d NAILS AT 6" OC EDGE AND 12" OC IN THE FIELD. 3. REFERENCE SHEAR WALL SCHEDULE FOR ADDITIONAL NAILING REQUIREMENTS. * = LATERAL CLIPS REQUIRED; PROVIDE SIMPSON A35 CLIP AT EACH STUD ABOVE HEADER, REFERENCE TYPICAL DETAILS FOR CLIP LOCATION.

MARK MATERIAL WALL STUDS DFL6 DF-L No. 2 2x6 AT 16" AT SHEATHING PANEL EDGES (4'-0" OC MAX) DFL6-2 DF-L No. 2 2x6 AT 16" AT SHEATHING PANEL EDGES (4'-0" OC MAX)

	SCHED	ULE - T	RUSSES
MARK	TRUSSES	SPACING	COMMENTS
T1	ROOF TRUSS	24"	COORDINATE PLACEMENT WITH CANOPY ROD ATTACHMENT

	SCHEDULE - JOISTS					
MARK	JOISTS	SPACING	COMMENTS			
J1	2x8	16"				

SCHEDULE - HEADERS							
NOTES:							
1. JAMB ANL	SILL STUDS TO MATCH TYPICAL WALL STU	DS UNO.					
MARK	HEADER	COMMENTS					
H2-9.25	(2) 1¾"x9¼" LVL						
H2-10	(2) 2x10						
H2-11	(2) 1¾"x11%" LVL						
H3-10	(3) 2x10						

	SCHEDULE - BEAMS				
MARK	BEAM SIZE	COMMENTS			
B1	C6X8.2	COORDINATE PLACEMENT WITH CANOPY ROD ATTACHMENT			
B2	(1) 2x8+(1) 2x12	2x12 FORMING CANOPY CURB			

SCHEDULE - CAP PLATES

1. BOLT SIZE NOTE: FOR BEAMS WITH A FLANGE WIDTH LESS THAN 5", 5/8" BOLTS MAY BE USED FOR DETAILING TOLERANCES. 2. bf = WIDTH OF BEAM FLANGE. 3. D = VARIES, COORDINATE WITH BEAM FLANGE WIDTH. 4. W = JOIST GIRDER SEAT WIDTH PLUS 1" FOR FILLET WELD CONNECTION. VERIFY SEAT WIDTH WITH JOIST SUPPLIER PRIOR TO FABRICATION.

5. VERIFY B	OLT PLACEMENT WITH JOIST S	SUPPLIE	R.	
PLATE TYPE	SHAPE	PL	ATE THICKNESS	BOLT SIZE
Α	1		1/4"	3/4"
В	2		1/4"	3/4"
bf MIN. 1/4"		- □ OTE 3	MIN. — — — — — — — — — — — — — — — — — — —	1 1/2" 1 1/2" SEE NOTE 3

	SCHEDULE - ROOF SHEATHINGS						
MARK	SHEATHING TYPE	SUPPORT ATTACHMENT [EDGE / FIELD]	BLOCKED				
ROOF	5/8" (NOMINAL) APA RATED SHEATHING, EXPOSURE 1, 48/24 SPAN RATING	10d [6" OC / 12" OC]	No				

SCHEDULE - KEYNOTE LEGEND			
KEYNOTE	COMMENT		
1	BALLOON FRAMED WALL		
2	SPF STUD GRADE OR BETTER 2x6 KICKERS AT EACH TRUSS PARAPET		



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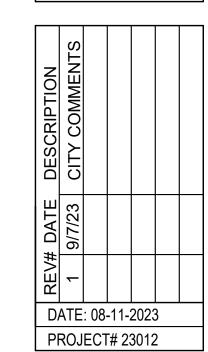
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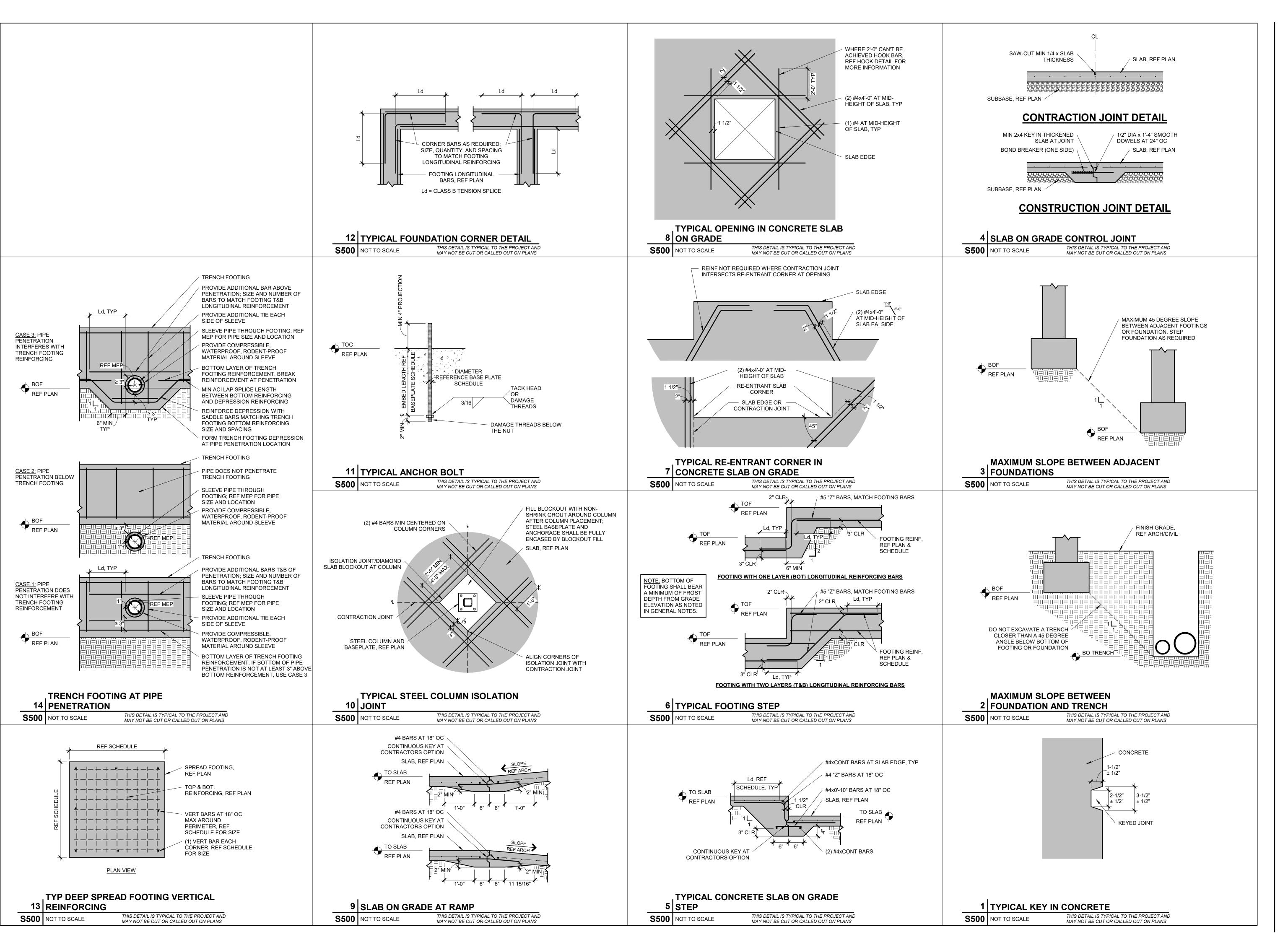












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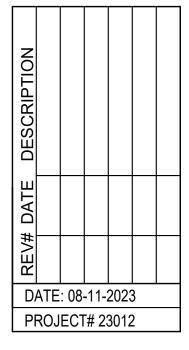




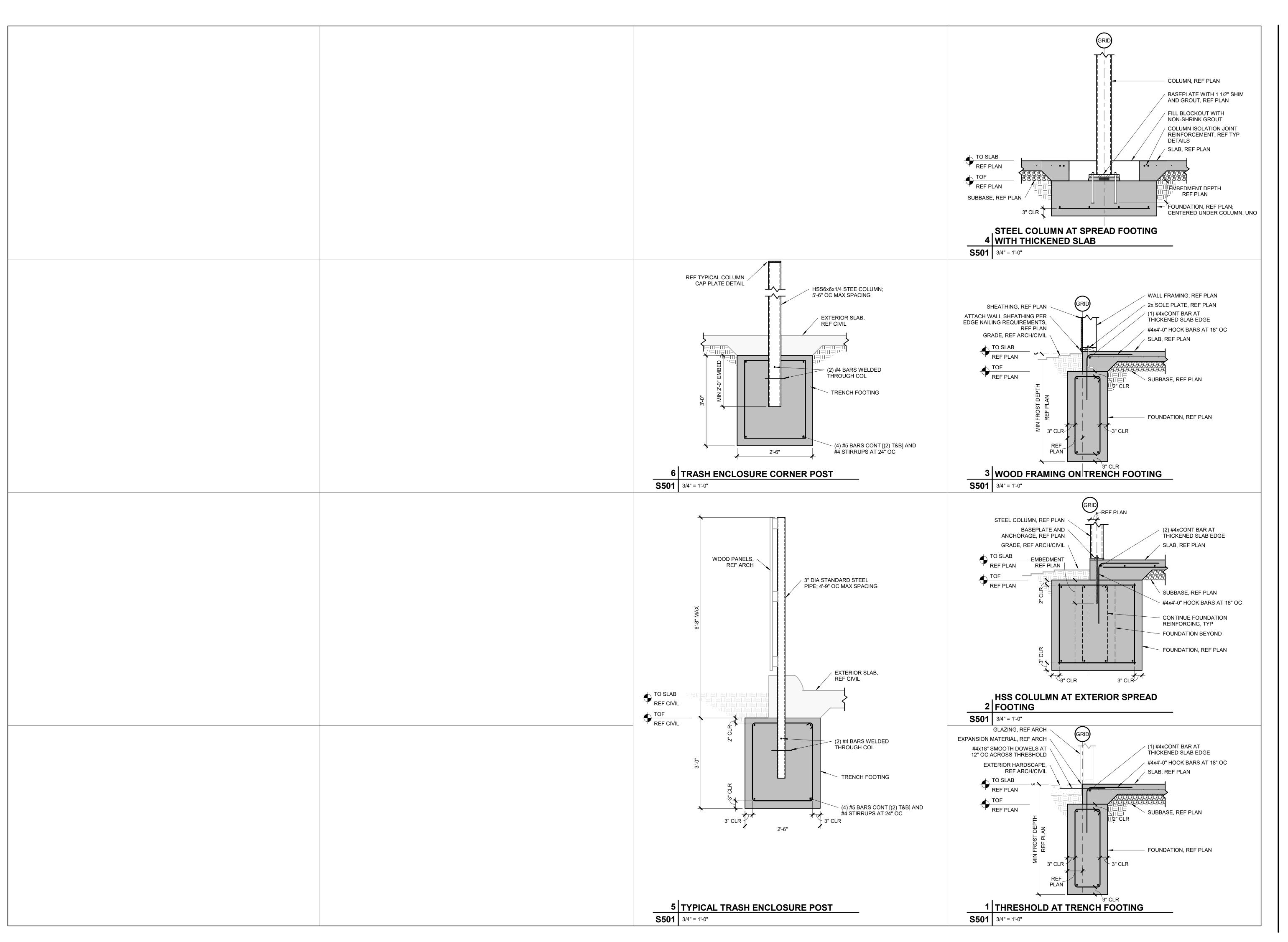
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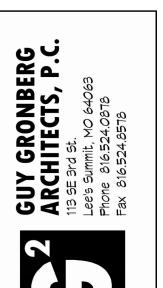








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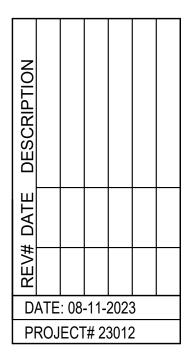


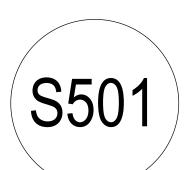


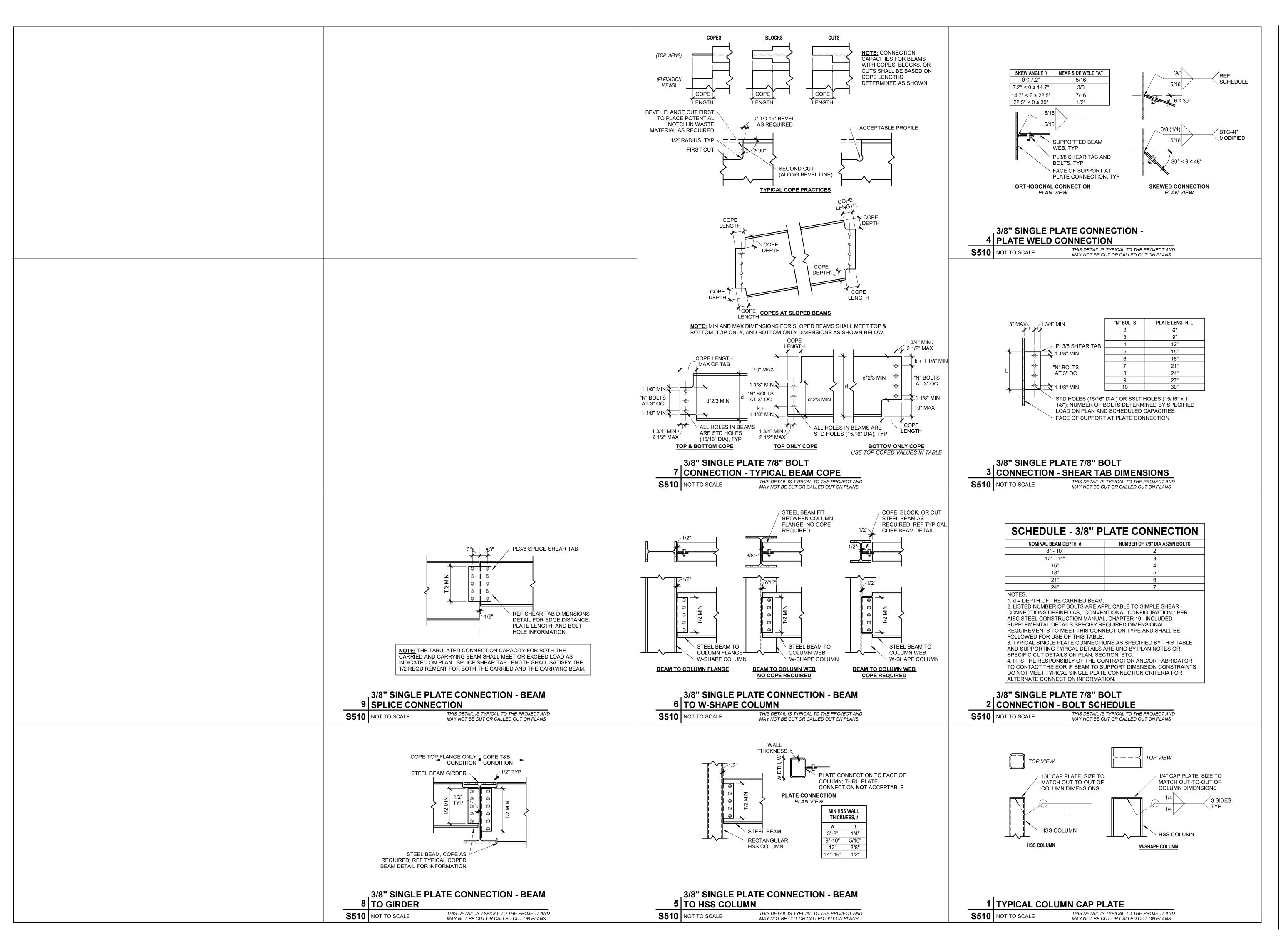












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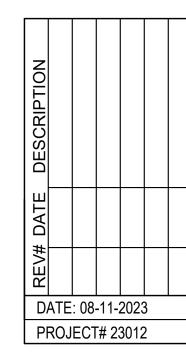
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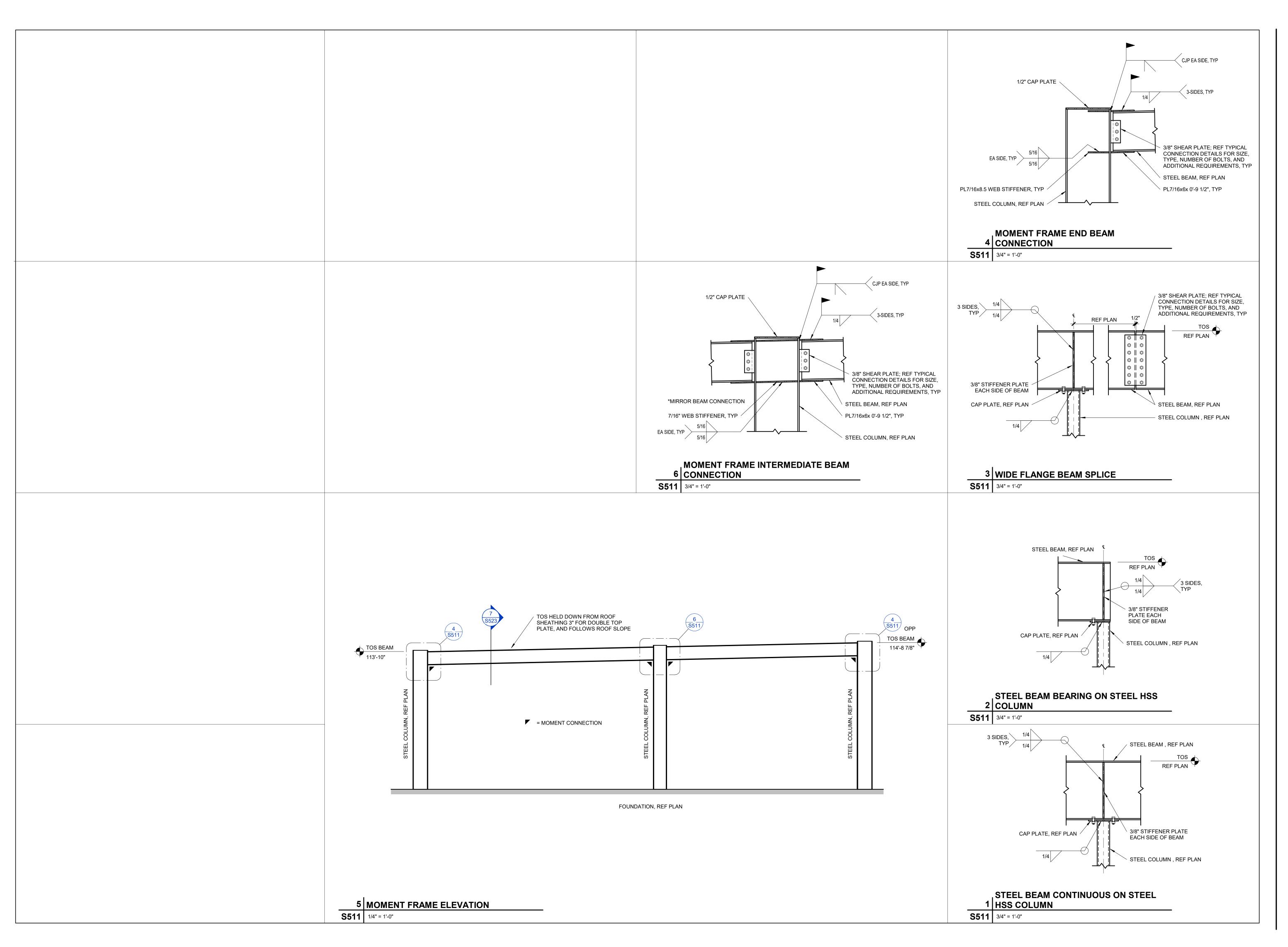


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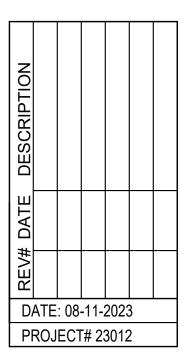




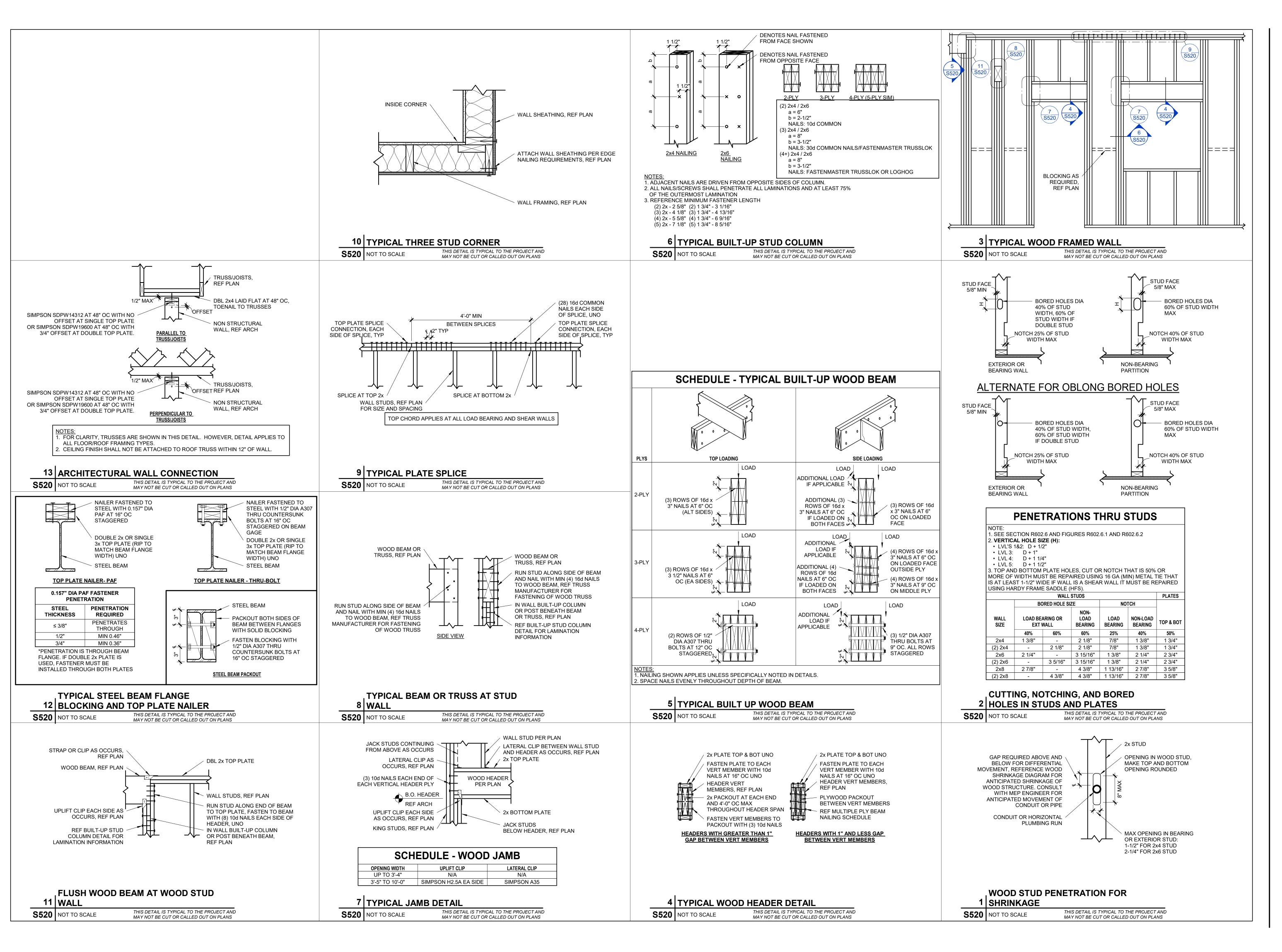
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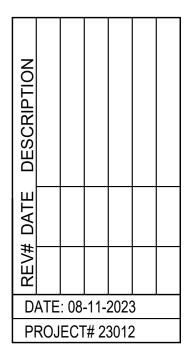
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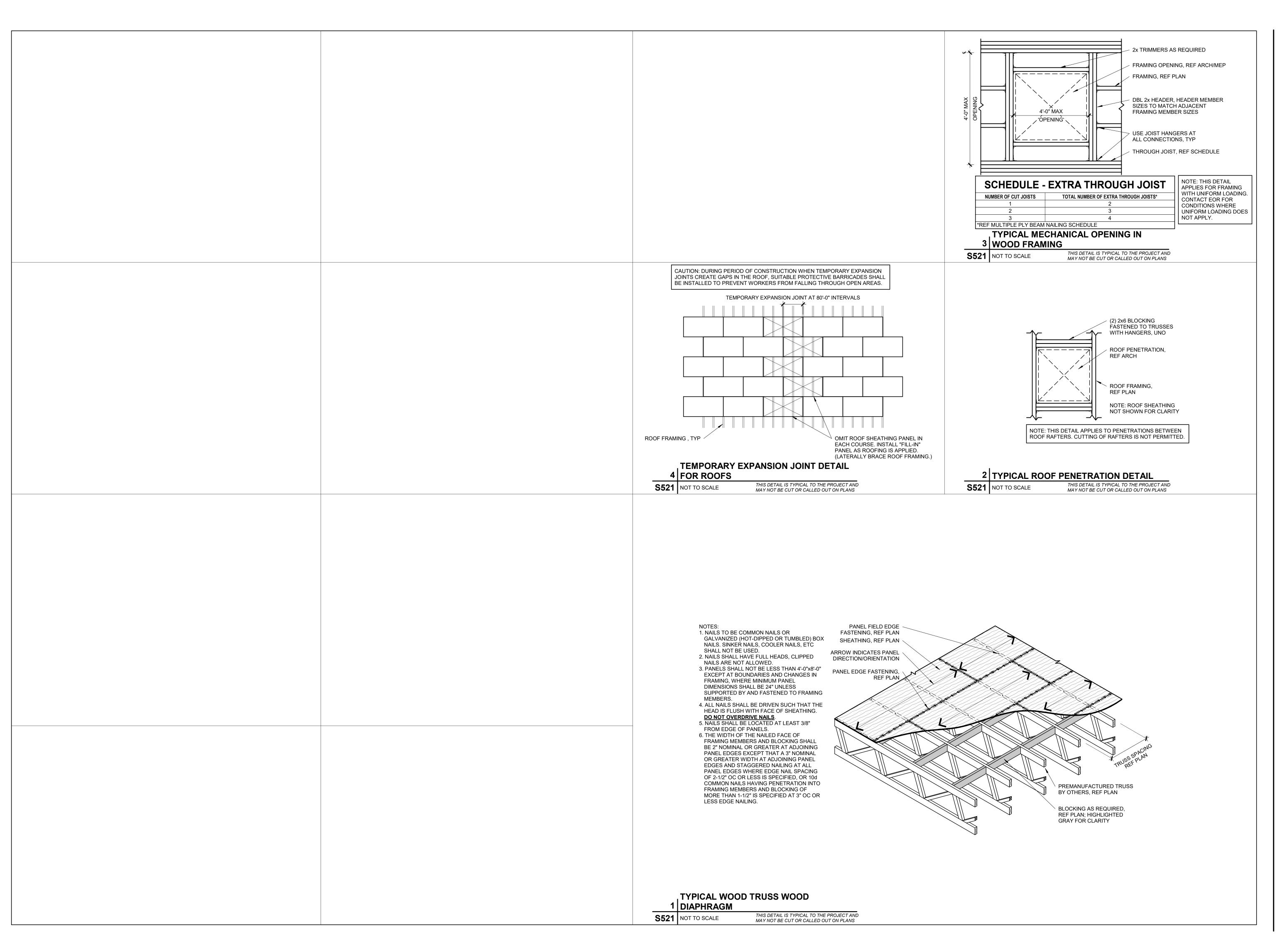


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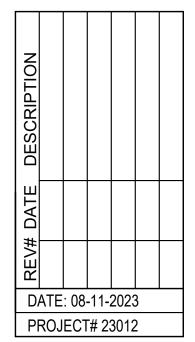
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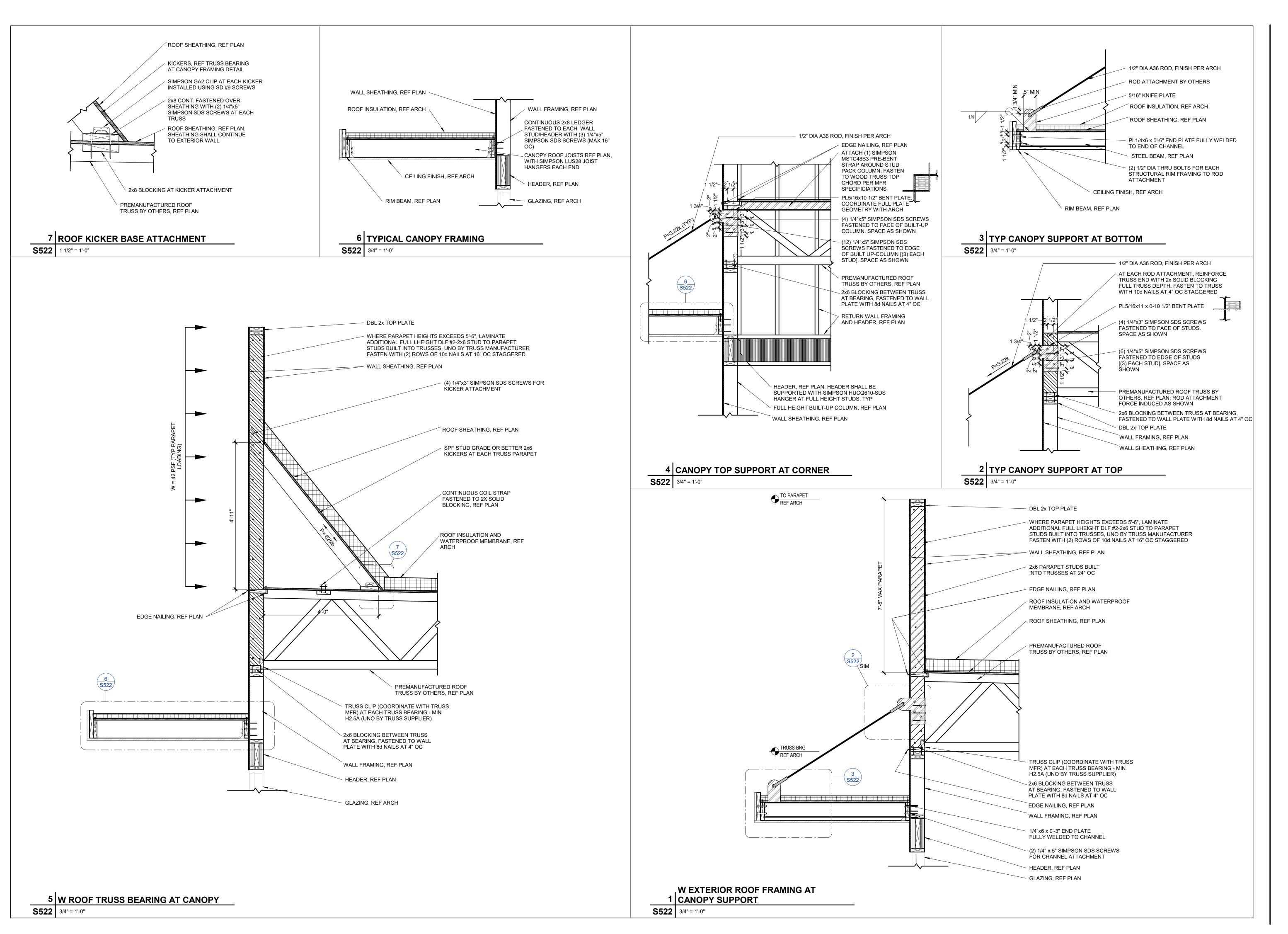


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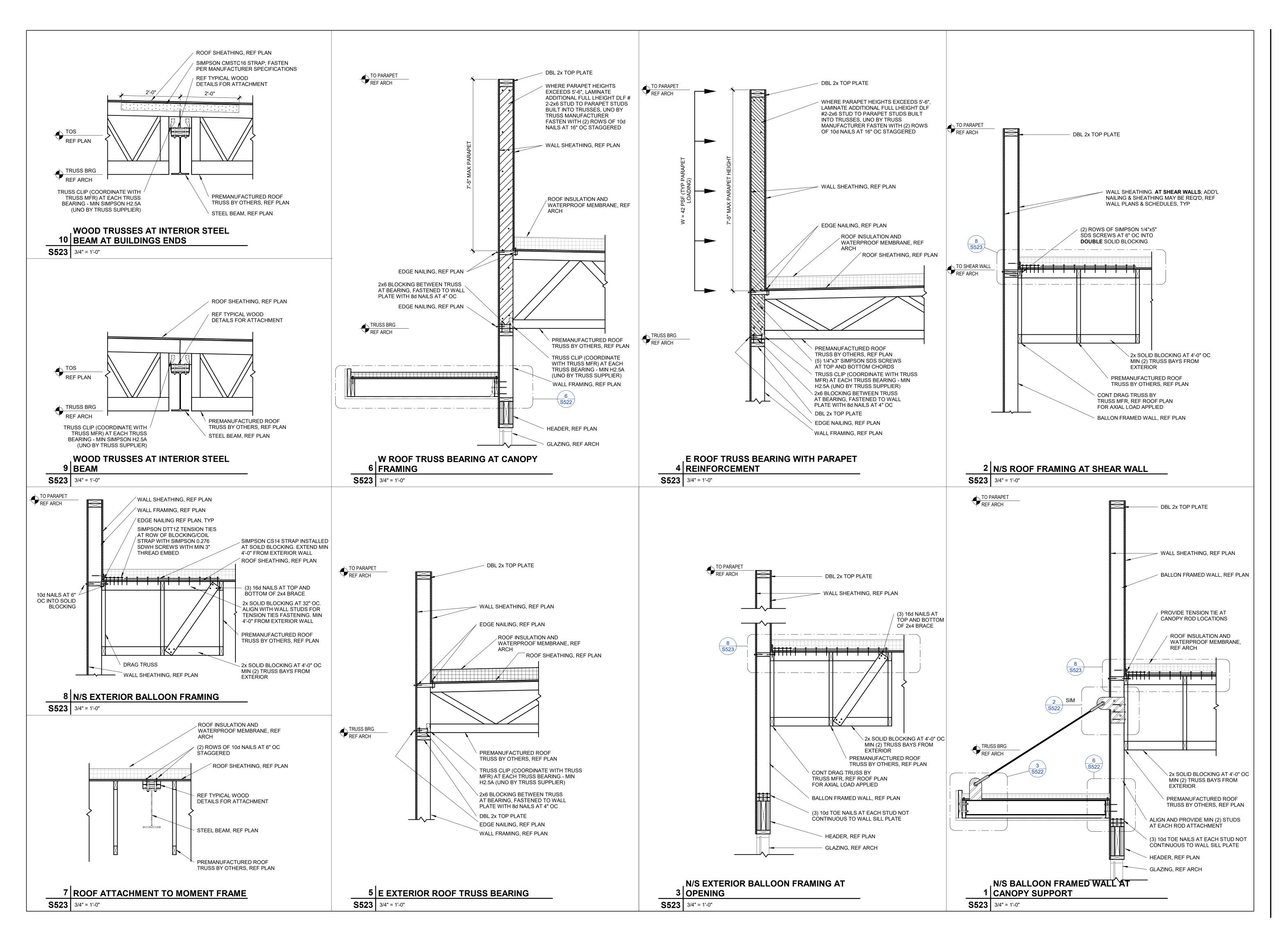


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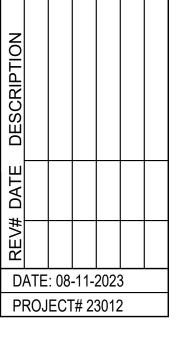
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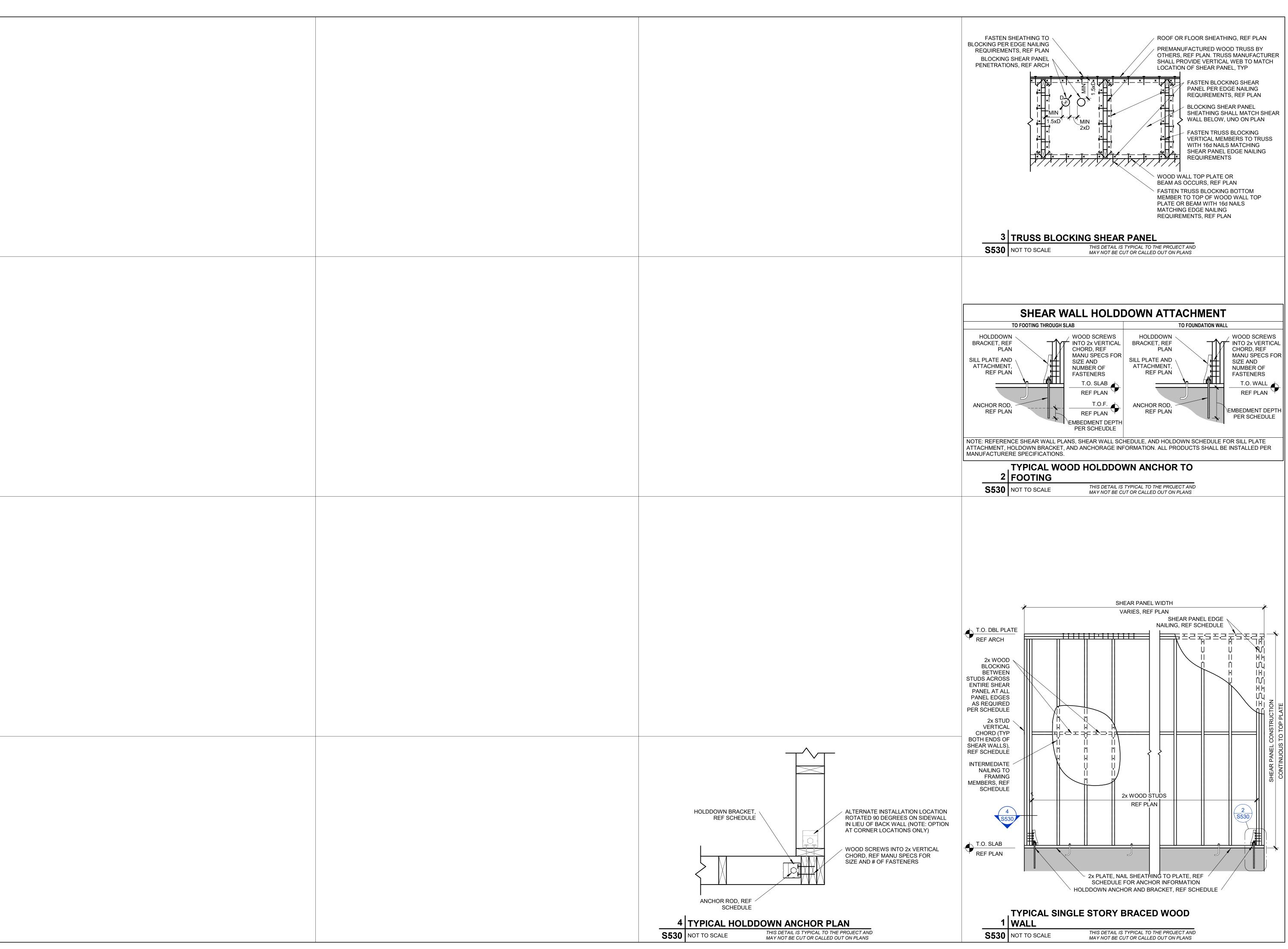


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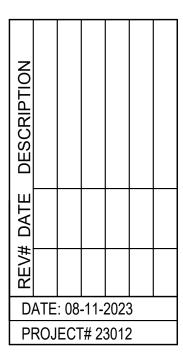






DOUGLAS







			GAS U	NIT HEA	TER SCH	HEDULE				
PLAN				WEIGHT	INPUT	OUTPUT		ELECT	RICAL	
MARK	MANUFACTURER	MODEL	CFM	(LBS)	(MBH)	(MBH)	EFF.	V/PH	FLA	REMARKS
UH-1	REZNOR	UDAP-100	1,345	96	100	80	80.00%	115V/1PH	2.4	1,2
UH-2	REZNOR	UDAP-100	1,345	96	100	80	80.00%	115V/1PH	2.4	1,2

REMARKS:

1. PROVIDE WITH THERMOSTAT AND CONTROL TRANSFORMER.

2. PROVIDE MANUFACTURER'S HANGER KIT. B. PROVIDE 4" TYPE B VENT.

		ELI	ECTRIC HEATE	R SCHEE	ULE				
							ELECTRICAL		
MARK	LOCATION	MANUFACTURER	MODEL	WEIGHT	CFM	VOLTS	PH	kW	NOTES
EUH-1	FIRE RISER ROOM	OUELLET	OHVU03008AM	40	300	208	3	3	A-E

- MOUNT 8'-0" ABOVE FINISHED FLOOR WITHOUT OBSTRUCTING AIRFLOW.
- PROVIDE NECESSARY MOUTING BRACKET AND ACCESSORIES FOR HORIZONTAL MOUNTING.
- PROVIDE WALL MOUNTED THERMOSTAT.
- PROVIDE FACTORY MOUNTED DISCONNECT SWITCH.
- PROVIDE RELAY AND TRANSFORMER FOR CONNECTION TO 24V THERMOSTAT.
- INSTALL RECESSED IN WALL, COORDINATE COLOR WITH ARCHITECT, PROVIDE TAMPERPROOF BUILT-IN THERMOSTAT.

	PLUMBING FIXTURE SCHEDULE
FD	FLOOR DRAIN: SOUIX CHIEF 842-4PNR, FLOOR DRAIN, PVC BODY AND CLAMPING COLLAR, ADJUSTABLE 6-1/2" ROUND NICKEL BRONZE STRAINER. PROVIDE WITH PROSET SYSTEMS "TRAP GUARD" INSERT FOR ACTUAL FLOOR DRAIN MODEL AND SIZE PROVIDED.
RPZ1	WATTS #LF009, 1-1/2", REDUCED PRESSURE BACKFLOW PREVENTER, LEAD FREE BRONZE BODY CONSTRUCTION, TWO IN-LINE INDEPENDENT CHECK VALVES, REPLACEABLE CHECK SEATS WITH AN INTERMEDIATE RELIEF VALVE AND BALL VALVE TEST COCKS.
RPZ2	WATTS #LF009, 1", REDUCED PRESSURE BACKFLOW PREVENTER, LEAD FREE BRONZE BODY CONSTRUCTION, TWO IN-LINE INDEPENDENT CHECK VALVES, REPLACEABLE CHECK SEATS WITH AN INTERMEDIATE RELIEF VALVE AND BALL VALVE TEST COCKS.
НВ	HOSE BIB, FREEZELESS, WOODFORD MODEL 65, ASSE 1019-B CERTIFIED WITH ASSE 1011 VACUUM BRAKER, LOOSE KEY OPERATOR, 3/4" MPT INLET.

FIXTUR	BRANCH CONNECTION SCHEDULE							
FIXTURE	COLD WATER	HOT WATER	WASTE	VENT				
OOR DRAIN	-	-	4"	2"				
/ALL HYDRANT	3/4"	-	-	-				
OTE:	PIPE SIZES SHOW	N ARE MINIMUM	1.					

				DUPLEX SE	WAGE (GRINDE	R PUM	P SCHEDULE			
							EL	ECTRICAL (EACH PL	JMP)	WEIGHT	
MARK	MANUFACTURER	MODEL	GPM	HEAD (FT. WC)	HP	VOLTS	PHASE	FULL LOAD AMPS	LOCKED ROTOR AMPS	(LBS)	NOTES
GP-1	LIBERTY	D3672LSG203	50	31	2	208	1	15	53	515	A-G
NOTES:											

- THIS IS A PREASSEMBLED DUPLEX GRINDER SYSTEM WITH TWO (2) IDENTICAL PUMPS. ELECTRICAL INFO ABOVE IS FOR ONE PUMP.
- ELECTRICAL SERVICE SHALL BE SIZED TO SUPPORT BOTH PUMPS RUNNING SIMULTANEOUSLY
- PROVIDE FACTORY MOUNTED GUIDE RAIL SYSTEM WITH QUICK DISCONNECT.
- PROVIDE THREE (3) FLOAT SWITCHES AND A HIGH WATER ALARM. PROVIDE AE24HC NEMA 4X CONTROL PANEL. MOUNT ON WALL NEXT TO DUPLEX SYSTEM.
- PUMPS SIT TOGETHER IN A 36" ID X 96" DEEP FIBERGLASS BASIN.
- COORDINATE DISCHARGE HEIGHT WITH CIVIL PLANS PRIOR TO PURCHASE.
- PROVIDE ONE (1) 42" OD X 3/8" THICK ROUND STEEL COVER.

MECHANICAL & PLUMBING SPECS

. GENERAL PROVISIONS:

- A. PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE COMPLETE INSTALLATION OF
 - THE PLUMBING AND MECHANICAL SYSTEMS OUTLINED. B. OBTAIN ALL PERMITS, FEES, LICENSES, INSPECTIONS, AND CERTIFICATIONS OF COMPLIANCE OR APPROVAL AS REQUIRED BY AUTHORITIES.
- C. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS OF THE GOVERNMENTAL BODIES HAVING JURISDICTION OVER THE SITE. D. ALL TESTING REQUIRED BY AUTHORITIES SHALL BE CONSIDERED PART OF THIS WORK.
- E. DURING CONSTRUCTION, ALL FIXTURES, EQUIPMENT, PIPE, DUCT, ETC. SHALL BE COVERED, PLUGGED. OR CAPPED AS REQUIRED TO KEEP CLEAN AND UNDAMAGED. ALL DAMAGED ITEMS SHALL BE RESTORED TO ORIGINAL CONDITION OR REPLACED. ALL PROTECTIVE COVERING SHALL BE REMOVED BEFORE FINAL ACCEPTANCE.
- F. PROVIDE ALL NECESSARY CUTTING AND PATCHING OF WALLS, FLOORS, CEILINGS, AND ROOFS AS NECESSARY. PATCH AROUND ALL OPENINGS SHALL MATCH ADJACENT AREA. COORDINATE ALL ROOFING WORK WITH OWNER OR RESPONSIBLE PARTY, SO THAT THE EXISTING ROOFING WARRANTY WILL BE
- G. CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS AGAINST DEFECT FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE.
- H. INSPECTION OF THE SITE: THIS CONTRACTOR SHALL THOROUGHLY ACQUAINT HIMSELF WITH THE MEP DRAWINGS, SPECIFICATIONS, DETAIL, AND THE SITE. THIS CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY SPECIAL OR UNUSUAL PROBLEMS, CONFLICTS, OR OBSTRUCTIONS THAT AFFECT HIS BID. I. FOR THE PURPOSE OF CLEARNESS AND LEGIBILITY, THE MECHANICAL DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND DO NOT SHOW ALL OFFSETS AND FITTINGS REQUIRED FOR INSTALLATION. DO NOT SCALE DRAWINGS. THE SIZE AND LOCATION OF EQUIPMENT IS SHOWN TO SCALE WHEREVER POSSIBLE.
- THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DATA AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATION SECTIONS WHERE MECHANICAL WORK INTERFACES WITH OTHER TRADES. J. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON THE PLANS OR WITH CODE REQUIREMENTS. THE NOTE OR CODE WHICH PRESCRIBES AND ESTABLISHES THE MORE COMPLETE JOB OR HIGHER STANDARD SHALL PREVAIL.
- K. INSTALL MATERIALS AND SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND APPROVED SUBMITTALS. INSTALL MATERIALS IN PROPER RELATION WITH ADJACENT CONSTRUCTION AND WITH UNIFORM APPEARANCE FOR EXPOSED WORK, COORDINATE WITH WORK OF OTHER SECTIONS. COMPLY WITH APPLICABLE REGULATIONS AND CODE REQUIREMENTS. PROVIDE PROPER CLEARANCES FOR
- L. INCLUDE ALL BASIC MATERIALS AND CONSTRUCTION METHODS INCLUDING PIPES, PIPE FITTINGS, AND SPECIALTIES AND SUPPORTING DEVICES, VALVES, PIPE AND VALVE IDENTIFICATION, PUMPS, VIBRATION
- M. FURNISH ADEQUATE ACCESS PANELS AND DOORS TO ALLOW FOR FUTURE PIPING ALTERATIONS, REPLACEMENT, AND MAINTENANCE OF PIPING. PROPERLY IDENTIFY ALL ACCESS PANELS AND DOORS.

<u> 2. OPERATION AND MAINTENANCE MANUALS:</u>

- A. DURING THE COURSE OF CONSTRUCTION, COLLECT AND COMPILE OPERATING INSTRUCTIONS. WIRING DIAGRAMS, CATALOG CUTS, LUBRICATION AND PREVENTIVE MAINTENANCE INSTRUCTIONS, PARTS LISTS, ETC. FOR ALL EQUIPMENT FURNISHED UNDER THIS CONTRACT.
- B. ALL LITERATURE AND INSTRUCTIONS SHIPPED WITH THE EQUIPMENT SHALL BE SAVED FOR INCLUSION IN THE OPERATING AND MAINTENANCE MANUALS.

- A. MANUFACTURERS, MODEL NUMBERS, ETC. INDICATED OR SCHEDULED ON THE DRAWINGS SHALL BE INTERPRETED AS HAVING ESTABLISHED A STANDARD OF QUALITY AND SHALL NOT BE CONSTRUED AS LIMITING COMPETITION. ARTICLES, FIXTURES, ETC. OF EQUAL QUALITY BY MANUFACTURERS SHALL BE ACCEPTABLE, SUBJECT TO STRUCTURAL AND ELECTRICAL CONSTRAINTS OF THE PROJECT DESIGN.
- B. THE ELECTRICAL SYSTEM DESIGN IS BASED IN PART ON THE SPECIFIED EQUIPMENT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE ELECTRICAL REQUIREMENTS OF THE EQUIPMENT BEING FURNISHED. ANY CHANGES TO THE ELECTRICAL SYSTEM DUE TO HVAC EQUIPMENT OTHER THAN THE SPECIFIED EQUIPMENT BEING FURNISHED SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

A. PROVIDE THERMAL OVERLOAD PROTECTION FOR EACH MOTOR PROVIDED BY THIS WORK.

A. PROVIDE CLEANOUTS AT EACH CHANGE IN DIRECTION AND AT 100 FOOT INTERVALS IN STRAIGHT RUNS. B. ALL SEWER PIPING LOCATED INSIDE THE BUILDING SHALL BE INSTALLED WITH THE FOLLOWING SLOPES. 1. INSTALL 2-1/2" AND SMALLER PIPE AT 1/4" PER FOOT FALL. 2. INSTALL 3" AND LARGER PIPE AT 1/8" PER FOOT FALL.

- A. DOMESTIC COLD, HOT, AND HOT WATER RECIRCULATING (ABOVEGROUND). TYPE L HARD DRAWN COPPER TUBING, ASTM B-88 WITH WROUGHT BRONZE SOLDERED FITTINGS.
- GATE VALVE: CRANE #428 OR EQUAL. 3. BALL VALVE: CRANE #932 OR EQUAL.
- B. SANITARY SEWER AND VENTS (UNDERGROUND, INTERIOR TO BUILDING).
- POLYVINYL CHLORIDE (PVC) DMV PIPE, SCHEDULE 40, SOLVENT JOINT. SEWER LINES SHALL BE LOCATED IN GENERAL AS SHOWN ON THE DRAWINGS. THE EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR IN SUCH A MANNER AS TO MAINTAIN

C. NATURAL GAS PIPING:

- 1. SCHEDULE 40 BLACK STEEL PIPING: 2" AND SMALLER WITH SCREWED JOINTS AND 150 LB.
- SUPPORT PIPING AT INTERVALS NOT TO EXCEED THOSE LISTED IN TABLE 415.1 OF THE I.F.G.C.
- D. ALL PIPE HANGERS AND SUPPORTS SHALL BE STANDARD PRODUCTS OF GRINNELL, FEE AND MASON,

- A. ALL INSULATIONS AND ACCESSORIES SHALL HAVE A FIRE HAZARD CLASSIFICATION WITH A FLAME SPREAD RATING OF NOT OVER 25, A FUEL CONTRIBUTION RATING OF NOT OVER 50, AND A SMOKE DEVELOPMENT RATING OF NOT OVER 50, IN ACCORDANCE WITH NFPA.
- SENSITIVE ADHESIVE SYSTEM FOR CLOSURE AND VAPOR SEALING, EQUAL TO ARMSTRONG AP ARMAFLEX OR ARMAFLEX 2000. THICKNESS:
- a. DOMESTIC COLD WATER: 1/2"

8. TESTING, BALANCING AND CLEANING:

- A. ALL PIPING SHALL BE TESTED FOR LEAKS BEFORE BEING CONCEALED IN WALL CONSTRUCTION OR COVERED WITH INSULATION.
- C. DOMESTIC WATER PIPING SHALL BE HYDROSTATICALLY TESTED AT A PRESSURE OF NOT LESS THAN
- D. NATURAL GAS SYSTEMS SHALL BE TESTED WITH COMPRESSED AIR AT A PRESSURE OF NOT LESS THAN 1-1/2 TIMES THE OPERATING PRESSURE, BUT NOT LESS THAN 50 PSIG FOR A PERIOD OF 2 HOURS WITH NO LEAKS.
- A. PROVIDE MANUFACTURERS STANDARD ACCESSORY ITEMS INCLUDING BIRD PROOF TOP, STORM COLLAR, ROOF THIMBLE, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION. ROOF THIMBLES THROUGH THE BUILDING ROOF SHALL BE SUITABLE FOR USE WITH THE ROOF PROVIDED. B. FLUES FOR HEATERS SHALL BE DOUBLE WALL TYPE B EQUAL TO METALBESTOS. PROVIDE

- A. UNIT SHALL INCLUDE ELECTRIC HEATING ELEMENTS WITH SAFETY AND DISCONNECT DEVICES AS REQUIRED BY NEC, INCLUDING RELAYS, CONTROLLERS AND REQUIRED EQUIPMENT TO FORM A COMPLETE AND FUNCTIONAL HEATER.
- TO SENSE TEMPERATURES THE ENTIRE LENGTH OF HEATING ELEMENT.
- AUTOMATIC RESET MOTOR OVERLOAD PROTECTION.

M&P SYMBOLS

THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS, ETC, ARE

NECESSARILY USED ON THE DRAWINGS. HVAC EQUIPMENT & DUCTWORK

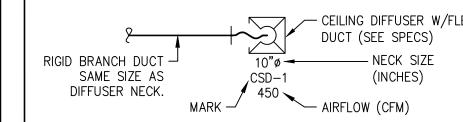
SPIN-IN FITTING WITH MANUAL VOLUME DAMPER FITTING AND MANUAL VOLUME DAMPER

SUPPLY AIR DUCT UP

MANUAL VOLUME DAMPER

SQUARE TO ROUND TRANSITION → DUCT TRANSITION

DUCT MOUNTED SMOKE DETECTOR



HOT WATER PIPING

PIPE ELBOW DOWN

PIPE ELBOW UP

GATE VALVE

BALL VALVE

PLUG VALVE

FLOOR DRAIN

FLOOR SINK

HOSE BIB

ANNOTATION

RTU MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED

A DETAIL REFERENCE UPPER NUMBER INDICATED DETAIL NUMBER

AND INSTALLED UNLESS NOTED OTHERWISE)

CONNECTION POINT OF NEW WORK TO EXISTING

、M1 / LOWER NUMBER INDICATES SHEET NUMBER

–) PLUMBING FIXTURE DESIGNATION

(E) DENOTES EXISTING ITEM

FLOOR CLEANOUT (FCO)

WALL CLEANOUT (WCO)

CHECK VALVE/BACKFLOW PREVENTER

DESCRIPTION <u>SYMBOL</u>

CONDENSATE DRAIN

G = GAS PIPING LESS THAN 2 PSIMPG = GAS PIPING 2 PSI

_____CW____ COLD WATER PIPING

-----HW------

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(#) PLAN WORK NOTE

-----HWR------RECIRCULATING HOT WATER _____CA____ COMPRESSED AIR PROPER CLEARANCES AND SUFFICIENT SLOPE TO ENSURE DRAINAGE.

MALLEABLE IRON SCREWED FITTINGS. PIPE 2-1/2" AND LARGER SHALL USE STANDARD WEIGHT

BLACK STEEL WELDING FITTINGS WITH WELDED JOINTS. GAS VALVES SHALL BE ROCKWELL 142/143, PLUG VALVE.

PROVIDE A.G.A. APPROVED SHUT OFF VALVES AND DIRT LEGS AT CONNECTIONS TO ALL

OR ANVIL. HANGER SPACING SHALL BE IN ACCORDANCE WITH MSS-SP-69.

- B. PIPE INSULATION (ABOVE GRADE): 1. THE PIPE INSULATION USED SHALL HAVE A THERMAL CONDUCTIVITY OF 0.27 BTU PER IN/HR*SQ-FT*°F OR LESS.
- 2. FLEXIBLE CLOSED CELL ELASTOMERIC THERMAL INSULATION, UNSLIT OR PRESLIT WITH PRESSURE

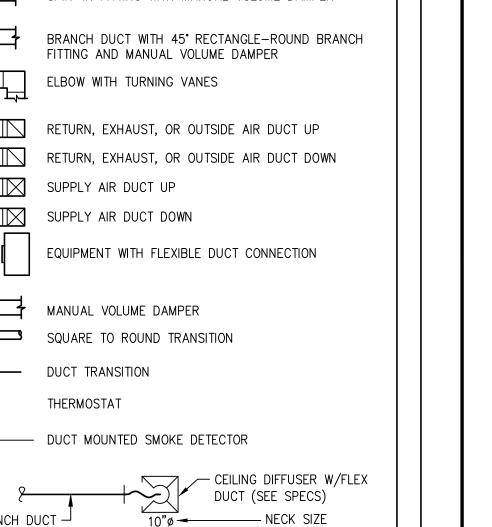
- B. SEWER AND VENT PIPING SHALL BE HYDROSTATICALLY TESTED WITH NO LESS THAN 10 FEET OF HEAD FOR A PERIOD OF NOT LESS THAN 15 MINUTES, PER THE LOCAL PLUMBING CODE, WITH NO LEAKS. 1-1/2 TIMES THE OPERATING PRESSURE, BUT NOT LESS THAN 60 PSI, FOR A PERIOD OF NOT LESS
- THAN 2 HOURS, WITH NO LEAKS.

9. FLUES AND ACCESSORIES

- MANUFACTURER'S STANDARD FITTING AND ACCESSORIES (ROOF THIMBLE, STORM COLLAR, COUNTER FLASHING, ETC.) AS REQUIRED FOR A COMPLETE INSTALLATION.

10. ELECTRIC WALL HEATERS

- B. ELEMENTS SHALL BE HEAVY DUTY ALUMINUM-FINNED, COPPER CLAD STEEL SHEATH, PROVIDE AUTOMATIC RESET THERMAL OVER—HEAT PROTECTION. THERMAL PROTECTOR SHALL BE LINEAR TYPE
- C. FANS SHALL BE DIRECT DRIVE USING PERMANENT SPLIT CAPACITOR TYPE MOTORS WITH BUILT-IN



— EXHAUST GRILLE HVAC EQUIPMENT & DUCTWORK SANITARY SEWER (ABOVE GRADE) SANITARY SEWER (BELOW GRADE) VENT PIPING

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RELEASED FOR CONSTRUCTION As Noted on Plans Review

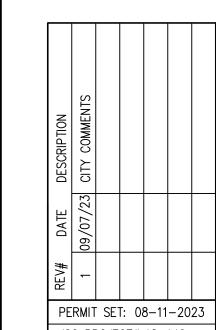
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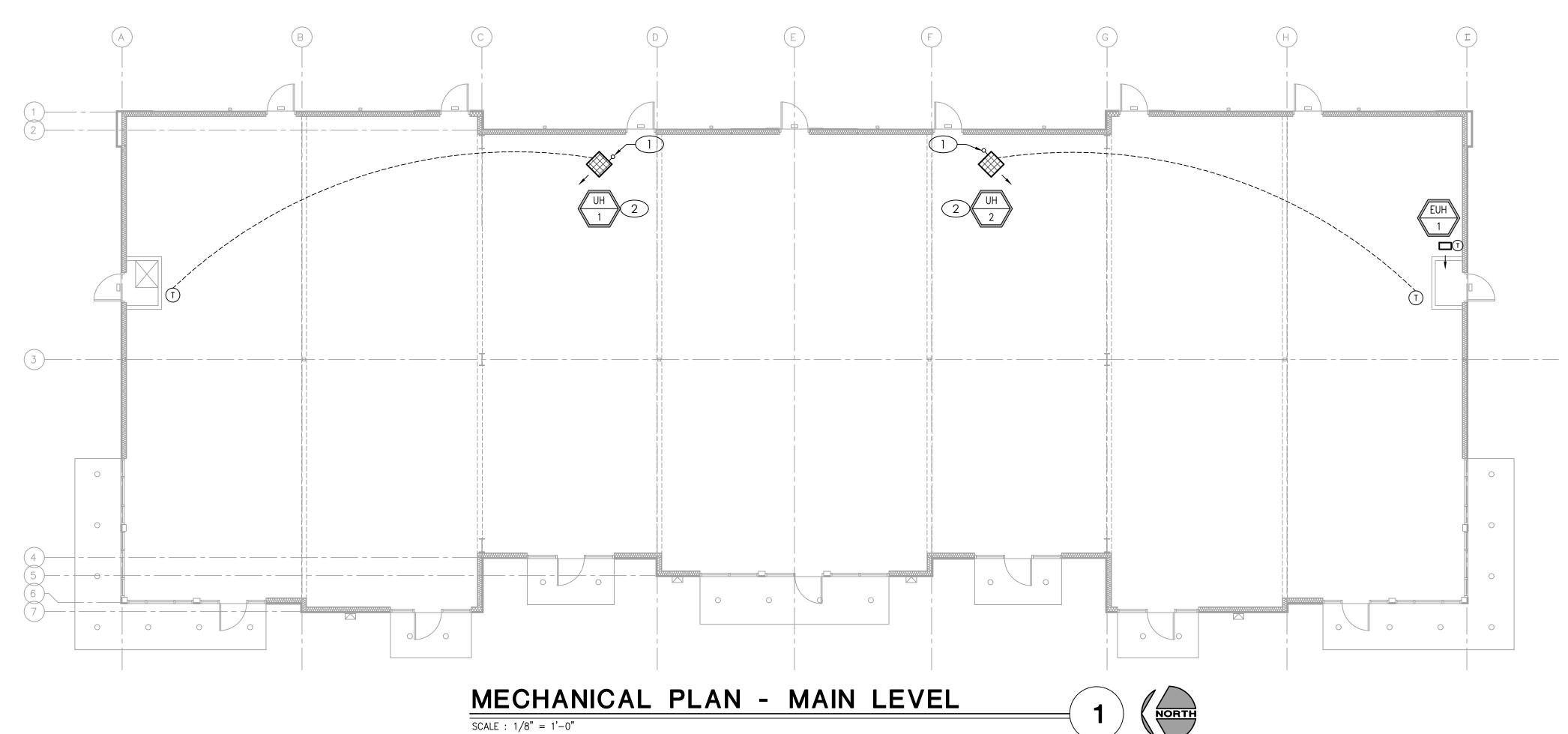
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JSC PROJECT# 18-142 MECHANICAL & PLUMBING SPECIFICATIONS, SYMBOLS. SCHEDULES AND DETAILS





KEYED PLAN NOTES

- 4" DIA FLUE THROUGH ROOF. LOCATE MIN. 3'-0" FROM EDGE OF ROOF.
 COORDINATE PENETRATION OF ROOFING MEMBRANE WITH ROOFING
 CONTRACTOR SO NOT TO VOID ROOF WARRANTY. SEAL ROOF PENETRATION
 WEATHERTIGHT.
- GAS FIRED UNIT HEATER. LOCATED TOP 18" FROM CEILING. SUPPORT FROM OVERHEAD STRUCTURE AS REQUIRED.



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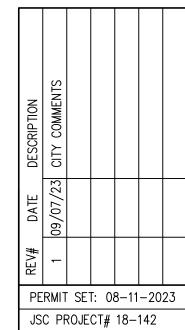


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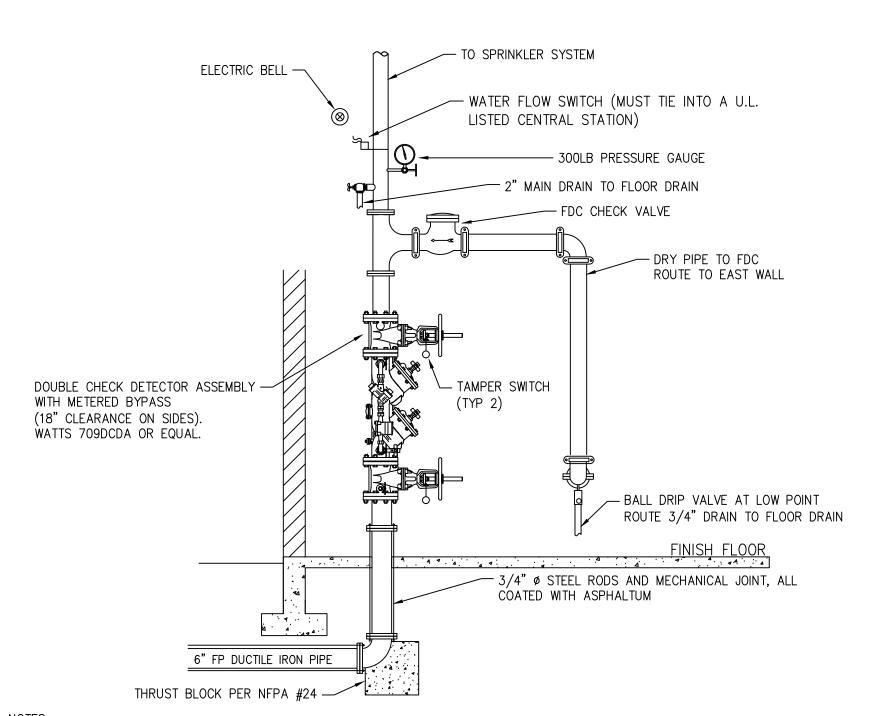
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MECHANICAL PLAN

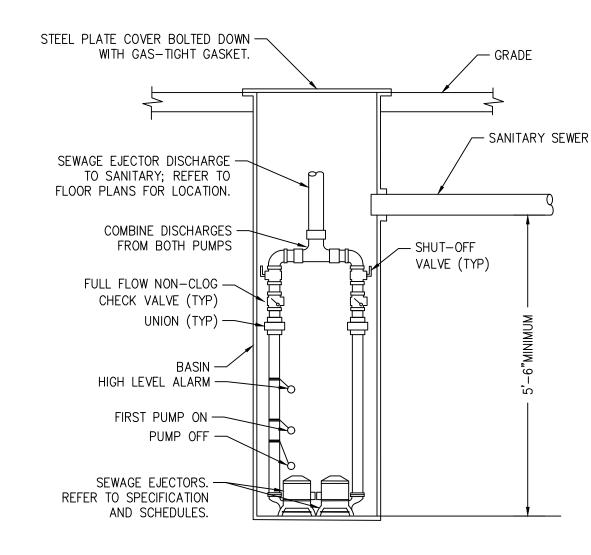




- 1) SEE NFPA 13 FOR CONNECTIONS PASSING THROUGH OR UNDER FOUNDATION WALLS.
- 2) ADEQUATE CLEARANCE SHALL BE PROVIDED AROUND FIRE RISER. DIMENSIONS FROM FACE-OF-PIPE SHALL MEASURE A MINIMUM OF 12" OFF THE BACK WALL, 18" ON EACH SIDE, AND 36" CLEAR IN FRONT. ALL VALVES NO MORE THAN 7'-0" AFF.
- 3) TAMPER SWITCH OR CHAIN & LOCK REQUIRED FOR CONTROL VALVES. 4) MONITORING SYSTEM: PROVIDE A SYSTEM FOR DETECTION OF FLOW AND SUPERVISION OF VALVES, CAPABLE WITH COMMUNICATING WITH
- OWNER'S MONITORING COMPANY. PROVIDE ALL WIRING. ROUTE COMMUNICATION CABLE TO TELEPHONE EQUIPMENT FOR CONNECTIONS BY
- 5) DRAWING IS SCHEMATIC. ORIENT VALVE SO THAT 36" CLEAR IS IN FRONT OF HANDWHEEL 6) SERVICE SIZE TO BE DETERMINED BY FIRE PROTECTION CONTRACTOR. SIZE SHOWN FOR BIDDING PURPOSE ONLY.

FIRE SPINKLER RISER - WET PIPE

SCALE: NO SCALE

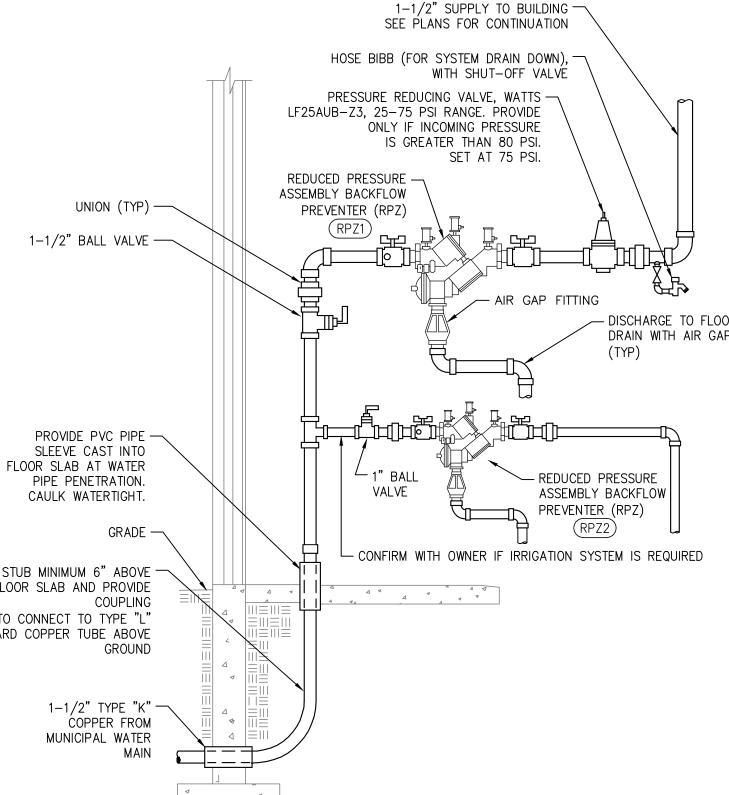


NOTE: ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. PIT EXCAVATION IS BY PLUMBING CONTRACTOR. LOCATE FLOATS AT ELEVATIONS RECOMMENDED BY PUMP MANUFACTURER. LOCATE PIT WITHIN 1'-0" OF WALL TO SUPPORT PIPES EXITING PIT AND ALLOW 3'-0" ACCESS SPACE IN FRONT OF PIT. LOCATE REMOTE CONTROL PANEL AS CLOSE AS POSSIBLE TO PIT. VERIFY EXACT ENTERING INVERT ELEVATION PRIOR TO ORDERING BASIN TO MAINTAIN MINIMUM BOTTOM ELEVATION OF 5'-6" BELOW ENTERING INVERT.

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DUPLEX SEWAGE EJECTOR

SCALE: NO SCALE

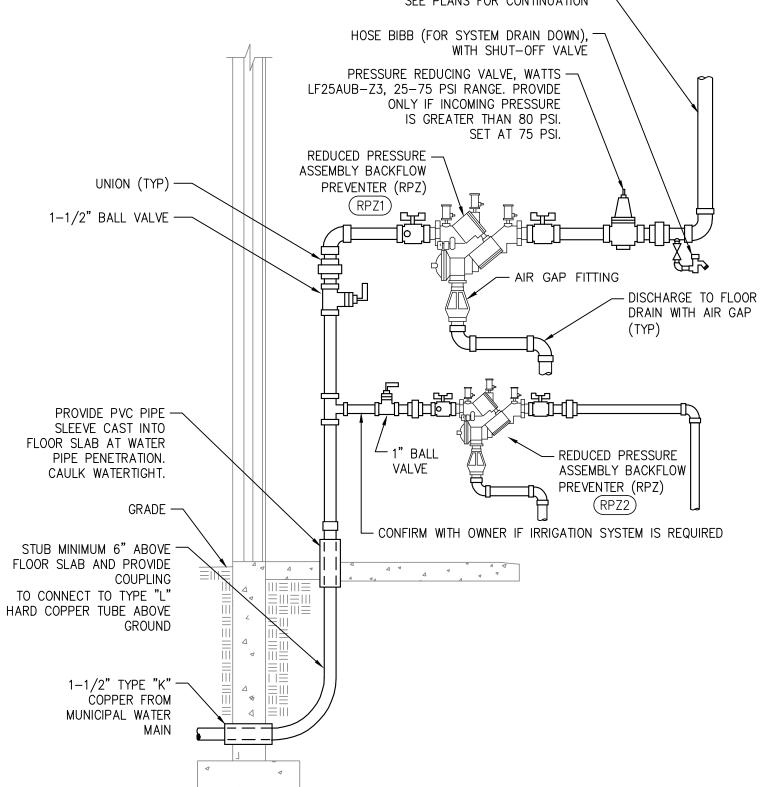


DOMESTIC WATER ENTRY

GENERAL WORK NOTES

A. ROUTE PIPING AS HIGH AND AS TIGHT TO STRUCTURE AS POSSIBLE. COORDINATE ROUTING WITH ALL EXISTING CONDITIONS, EQUIPMENT, STRUCTURAL ELEMENTS, DUCTWORK, ETC.

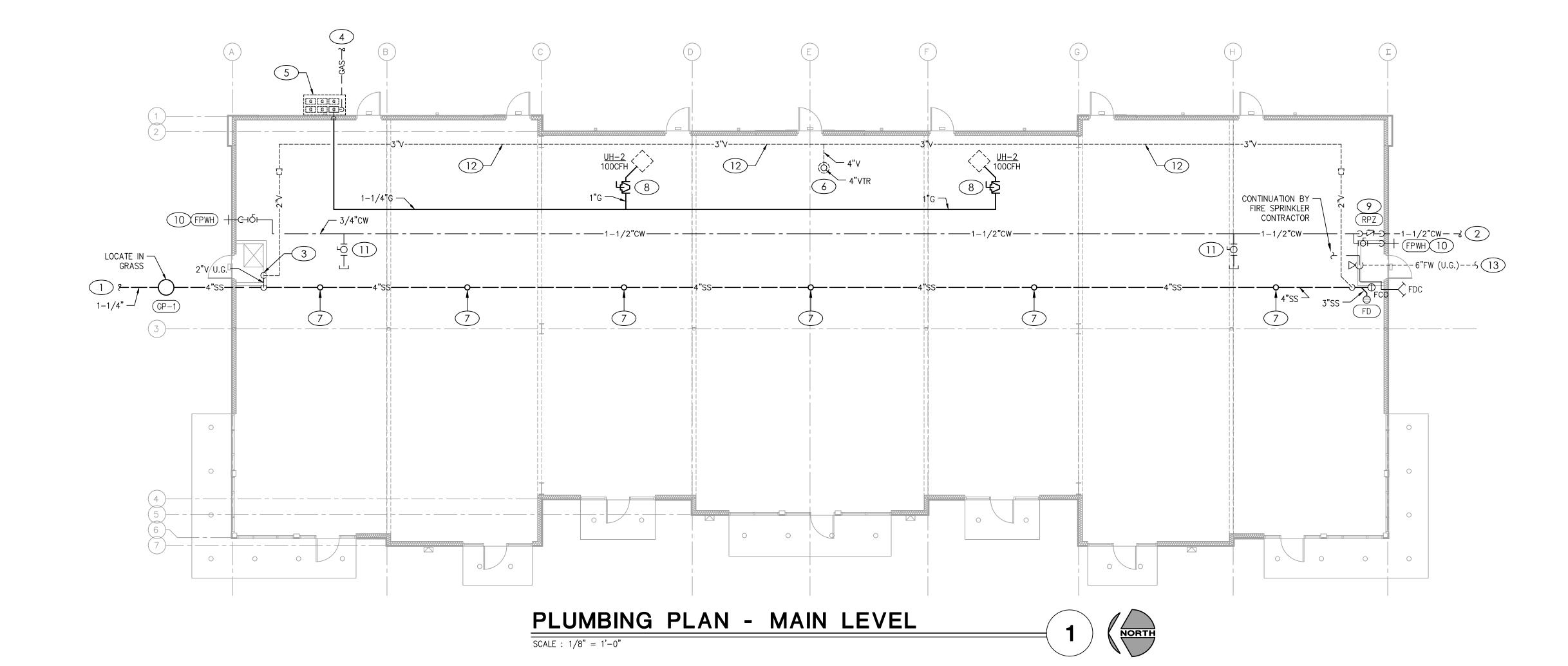
- 1. 1-1/4" SANITARY FORCED MAIN TO UTILITY SERVICE. REFER TO CIVIL PLANS FOR CONTINUATION.
- 2. 1-1/2" DOMESTIC COLD WATER TO UTILITY SERVICE. CONTRACTOR SHALL WORK WITH THE WATER COMPANY AND BEAR ALL COSTS FOR THE INSTALLATION OF A NEW WATER MAIN ENTRANCE, INCLUDING TAP, METER,
- COORDINATE WITH GAS UTILITY FOR INSTALLATION.
- 5. COORDINATE WITH GAS COMPANY FOR INSTALLATION OF (1) ONE INITIAL METER AND A METER BANK WITH CAPACITY FOR (6) TOTAL METERS. 200CFH @ 7"W.C.
- 6. 4" VENT THRU ROOF. LOCATE MINIMUM 3'-0" FROM EDGE OF ROOD. ROOF WARRANTY. SEAL ROOF PENETRATION WEATHERTIGHT.
- 7. INSTALL 4" SANITARY SEWER STUB-OUT AND CAP FOR FUTURE TENANT
- 8. 1" GAS TO FURNACE. PROVIDE SHUT-OFF VALVE AND DIRT LEG PRIOR TO
- 9. 1-1/2" VALVE AND 1-1/2" RPZ BACKFLOW PREVENTER APPROVED FOR DOMESTIC WATER SERVICE. INSTALL BACKFLOW PREVENTER 24" ABOVE FINISHED FLOOR (CENTERLINE ELEVATION) AS REQUIRED PER LOCAL AHJ. PROVIDE MINIMUM 12" CLEARANCE FRONT AND BACK. PROVIDE DRAIN FROM BFP TO FLOOR DRAIN AND DISCHARGE WITH AIR GAP. PROVIDE PRESSURE REDUCING VALVE IF SERVICE PRESSURE AT DOMESTIC WATER ENTRY EXCEEDS 75 P.S.I. DOWNSTREAM OF REDUCED PRESSURE BACKFLOW PREVENTER. SEE
- FOR FUTURE TENANT CONNECTIONS.
- 13. 6" FIRE SERVICE TO MAIN. REFER TO CIVIL DRAWINGS FOR CONTINUATION. FIRE SPRINKLER CONTRACTOR TO CONFIRM SERVICE SIZE ONCE CALCULATIONS ARE PERFORMED.



- B. COORDINATE PIPE ROUTING AWAY FROM ELECTRICAL PANELS. DO NOT ROUTE PIPING OVER ELECTRICAL PANELS.



- METER PIT, PIPING, ETC. FOR A COMPLETE INSTALLATION.
- 3. 2" VENT FROM UNDERGROUND UP TO CEILING SPACE.
- 4. GAS PIPING TO UTILITY MAIN. TOTAL ESTIMATED GAS LOAD FOR BUILDING = 1,200 MBH. REFER TO CIVIL PLANS FOR CONTINUATION. CONTRACTOR TO
- COORDINATE SPACE REQUIREMENTS WITH UTILITY. INITIAL GAS DEMAND IS
- COORDINATE PIPE PENETRATION WITH ROOFING CONTRACTOR SO NOT TO VOID
- CONNECTION. EXTEND 4" PVC UP 6" ABOVE FINISHED FLOOR.
- INSTALLATION DETAIL.
- 10. 3/4" CW DOWN IN WALL TO FREEZE PROOF WALL HYDRANT. LOCATE SHUT OFF VALVE IN CEILING OF CLOSET.
- 11. PROVIDE 3/4" VALVED AND CAPPED COLD WATER LINE FOR FUTURE CONNECTION.
- 12. INSTALL 3" VENT PIPE IN CEILING ALONG BACK OF TENANT SPACE TO ALLOW

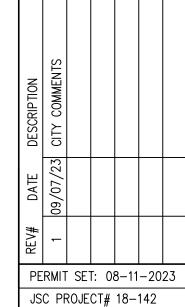


CONSTRUCTION As Noted on Plans Review

SMOTHERS

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GUY GRONBER ARCHITECTS, P 113 SE 3rd St.



P1

ELECTRICAL SPECIFICATIONS

<u> PART I – GENERAL</u>

- 1. FURNISH AND INSTALL A COMPLETELY WIRED AND OPERATIONAL ELECTRICAL SYSTEM AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN, INCLUDING BUT NOT LIMITED TO, THESE MAJOR ITEMS.
- LIGHTING FIXTURES AS INDICATED AND SPECIFIED ON THE PLANS. ELECTRICAL PANELS, SERVICE, CONDUIT, WIRING, ETC., FOR ALL OUTLETS AND EQUIPMENT,
- C. TELEPHONE, TELEVISION, AND FIRE ALARM. OUTLETS AND CONDUIT AS INDICATED.
- 2. OBTAIN AND REVIEW ALL OTHER DRAWINGS INCLUDING REFLECTED CEILING PLAN, INTERIOR AND EXTERIOR ELEVATIONS, FURNITURE PLANS AND ALL MILL WORK DRAWINGS, COORDINATE INSTALLATION OF ALL ELECTRICAL DEVICES AND EQUIPMENT PRIOR TO ROUGH-IN.
- 3. OBTAIN SUBMITTAL AND SHOP DRAWINGS FROM OTHER TRADES AND EQUIPMENT TO COORDINATE INSTALLATION ACCORDINGLY.
- 4. INSTALLATION SHALL COMPLY WITH ALL CURRENT APPLICABLE CODES AND GOVERNING AGENCIES HAVING JURISDICTION.
- 5. FIRE ALARM SYSTEM, IF REQUIRED PER IBC, SHALL BE DESIGN-BUILD BY OWNER'S/GC'S FIRE ALARM CONTRACTOR. DESIGN SHALL BE IN ACCORDANCE WITH NFPA 72. FIRE ALARM CONTRACTOR SHALL SUBMIT STAMPED DRAWINGS TO AHJ FOR REVIEW AND APPROVAL. FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR TESTING AND VERIFYING THAT THE AUDIBILITY OF THE FIRE ALARM SYSTEM MEETS A MINIMUM OF 15 DBA ABOVE AMBIENT NOISE LEVELS. ADD HORNS WHERE REQUIRED TO MAINTAIN
- 6. PROVIDE FIRE STOP ON ALL PIPING THAT PENETRATES RATED WALLS. METHOD OF FIRE STOP SHALL MEET WALL RATING. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF FIRE RATED WALLS. THIS CONTRACTOR SHALL PROVIDE FIRE RATED ENCLOSURES AROUND ALL ROUGH-IN BOXES, PANELS, ETC. THAT ARE LOCATED IN FIRE RATED WALLS AND SHALL FIRE CAULK ALL OPENINGS IN RATED ASSEMBLIES.

B. RELATED WORK BY OTHERS

- THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, TRENCH, AND BACKFILL FOR ELECTRICAL SERVICE ENTRANCE FROM THE MAIN SERVICE TO UTILITY POINT OF ELECTRICAL SERVICE. ELECTRICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE ELECTRICAL SERVICE ENTRANCE WITH SERVING UTILITY COMPANY.
- 2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, TRENCH, AND BACKFILL FOR PRIMARY PHONE AND CATV SERVICE FROM THE TELEPHONE TERMINAL BOARD OR CABINET TO THE PHONE COMPANY AND CATV COMPANY POINT OF SERVICE COORDINATE WITH LOCAL UTILITY COMPANIES.

C. CODES, REGULATIONS, AND STANDARDS

- THE INSTALLATION SHALL COMPLY WITH APPLICABLE LOCAL AND STATE CODES AND ORDINANCES, WITH THE REGULATIONS OF THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE AND WITH THE REQUIREMENTS OF THE POWER, TELEPHONE, AND CATV COMPANIES FURNISHING SERVICES TO THIS INSTALLATION.
- 2. THE LATEST EDITIONS OF THE FOLLOWING INDUSTRY STANDARDS, SPECIFICATIONS, AND CODES ARE
- MINIMUM REQUIREMENTS:
- THE NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION STANDARDS. THE NATIONAL ELECTRICAL CODE, INCLUDING LOCAL AMENDMENTS.
- UNDERWRITER LABORATORIES INCORPORATED STANDARDS.
- AMERICAN NATIONAL STANDARDS INSTITUTE.
- INTERNATIONAL BUILDING CODE.

D. INSPECTION OF SITE

- 1. PRIOR TO SUBMITTING A BID FOR ELECTRICAL WORK, THE CONTRACTOR SHALL VISIT THE SITE OF THE PROPOSED CONSTRUCTION AND SHALL THOROUGHLY ACQUAINT HIMSELF WITH EXISTING UTILITIES, AND WORKING CONDITIONS TO BE ENCOUNTERED, ETC. ALLOWANCE WILL NOT BE MADE FOR NONCOMPLIANCE WITH THIS CONDITION AFTER BIDDING.
- 2. ELECTRICAL INSTALLATION SHALL MEET THE EXISTING CONDITIONS.

E. STORAGE AND HANDLING OF MATERIAL

- 1. DELIVER MATERIALS AND EQUIPMENT TO THE PROJECT IN THE MANUFACTURER'S ORIGINAL, UNOPENED, LABELED CONTAINERS. PROTECT AGAINST MOISTURE, TAMPERING, OR DAMAGE FROM IMPROPER HANDLING OR STORAGE. CONTRACTOR SHALL PROTECT AND BE RESPONSIBLE FOR ANY DAMAGE TO WORK OR MATERIALS UNTIL FINAL ACCEPTANCE BY THE OWNER, AND SHALL MAKE GOOD WITHOUT COST TO THE OWNER. ANY DAMAGE OR LOSS THAT MAY OCCUR DURING THIS PERIOD.
- ARRANGE FOR TIMELY DELIVERY OF MATERIALS AND EQUIPMENT TO THE JOB SITE IN ORDER TO MINIMIZE HE LENGTH OF TIME BETWEEN DELIVERY AND INSTALLATION.
- 3. COVER AND PROTECT ANY MATERIAL WHICH MAY BE AFFECTED BY THE WEATHER WHILE IN TRANSIT OR STORED AT THE PROJECT SITE. ANY MATERIAL FOUND DEFECTIVE OR NOT INSTALLED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS MAY BE REJECTED BY THE ENGINEER.

1. KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIALS, OR RUBBISH CAUSED BY EMPLOYEES OR WORK UNDER THIS DIVISION OF THE SPECIFICATIONS. AT THE COMPLETION OF THE WORK REMOVE ALL SURPLUS MATERIALS, TOOLS, ETC., AND LEAVE THE PREMISES BROOM-CLEAN.

G. EXCAVATION, CUTTING, AND FITTING

- 1. PERFORM ALL EXCAVATION AND BACK FILLING REQUIRED FOR WORK PERFORMED UNDER THIS DIVISION OF THE SPECIFICATIONS. USE EXCAVATED MATERIALS FOR BACKFILL UNLESS OFF SITE MATERIALS ARE DEEMED NECESSARY.
- PERFORM THE EXCAVATION, CUTTING, FITTING, REPAIRING, AND FINISHING OF THE WORK NECESSARY FOR THE INSTALLATION OF THE EQUIPMENT OF THIS SECTION. HOWEVER, NO CUTTING OF THE WORK OF OTHER TRADES OR OF ANY STRUCTURAL MEMBERS SHALL BE DONE WITHOUT THE CONSENT OF THE ARCHITECT.

<u>H. DRAWINGS</u>

THE DRAWINGS INDICATE THE GENERAL ARRANGEMENT AND LOCATIONS OF THE ELECTRICAL WORK DATA PRESENTED ON THESE DRAWINGS ARE AS ACCURATE AS PLANNING CAN DETERMINE, BUT FIELD VERIFICATION OF ALL DIMENSIONS, LOCATIONS, LEVELS, ETC., TO SUIT FIELD CONDITIONS IS REQUIRED. REVIEW ALL ARCHITECTURAL, STRUCTURAL, AND MECHANICAL DRAWINGS AND ADJUST ALL WORK TO MEET THE REQUIREMENTS OF CONDITIONS SHOWN. THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER ALL OTHER DRAWINGS. DISCREPANCIES BETWEEN DIFFERENT PLANS, OR BETWEEN DRAWINGS AND SPECIFICATIONS, OR REGULATIONS AND CODES GOVERNING THE INSTALLATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING BEFORE THE DATE OF BID OPENING. IF DISCREPANCIES ARE NOT REPORTED, THE CONTRACTOR SHALL BID THE GREATER QUANTITY OR BETTER QUALITY, AND APPROPRIATE ADJUSTMENTS WILL BE MADE AFTER CONTRACT AWARD. CONTRACTOR SHALL BE RESPONSIBLE TO FIELD MEASURE AND CONFIRM MOUNTING HEIGHTS AND LOCATION OF ELECTRICAL EQUIPMENT WITH RESPECT TO COUNTERS, RADIATION, ETC. DO NOT SCALE DISTANCES OFF THE ELECTRICAL DRAWINGS, USE ACTUAL BUILDING DIMENSIONS.

I. COOPERATION WITH OTHER CONTRACTORS

- 1. COOPERATE WITH THE OTHER TRADES SO THAT THE INSTALLATION OF THE ELECTRICAL OUTLETS AND EQUIPMENT WILL BE PROPERLY COORDINATED. CONDUIT, LIGHTING FIXTURES, AND OTHER EQUIPMENT LOCATIONS SHALL BE VERIFIED WITH OTHER TRADES TO AVOID CONFLICT WITH THE PIPING, DUCTWORK, STEEL, BEAMS, OR OTHER OBSTRUCTIONS.
- CAREFULLY VERIFY THE LOCATIONS OF THE OUTLET BOXES AND DETERMINE THAT THEY HAVE NOT BEEN DISTURBED DURING THE INSTALLATION OF MATERIALS OF OTHER TRADES.
- 3. COORDINATE THE LOCATION OF THE TRENCHES AND CONDUITS FOR ELECTRICAL AND TELEPHONE UTILITY
- SERVICES WITH THE GENERAL CONTRACTOR. 4. COORDINATE HVAC AND PLUMBING EQUIPMENT CONNECTION REQUIREMENTS WITH HVAC AND PLUMBING

CONTRACTORS.

J. RECORD DRAWINGS

- THE ELECTRICAL CONTRACTOR SHALL MAINTAIN A SET OF DRAWINGS AT THE JOB SITE FOR THE EXCLUSIVE PURPOSE OF MAINTAINING A RECORD OF ALL WORK INSTALLED AND TO SHOW ANY DEVIATIONS FROM THE WORK INDICATED ON THE DRAWINGS.
- 2. AT THE COMPLETION OF THE PROJECT, ONE SET OF REPRODUCIBLE DRAWINGS, SHOWING ALL RECORD CONDITIONS, SHALL BE DELIVERED TO THE OWNER FOR ACCEPTANCE PRIOR TO FINAL PAYMENT.

PART II - PRODUCTS AND EXECUTION

A. MATERIALS

1. ALL MATERIALS SHALL BE NEW AND OF QUALITY AS SPECIFIED ON THE PLANS OR SPECIFICATIONS AND MUST CARRY THE UNDERWRITER'S LABORATORIES APPROVAL COVERING THE PURPOSE FOR WHICH THEY ARE USED, IN ADDITION TO MEETING ALL REQUIREMENTS OF THE CURRENT APPLICABLE CODES AND

B. SHOP DRAWINGS AND APPROVALS

- 1. THE ITEMS SPECIFIED HEREIN AND ON DRAWINGS ARE USED AS A STANDARD OF QUALITY. ANY MATERIALS OF EQUAL QUALITY AND AESTHETIC VALUE WILL BE GIVEN CONSIDERATION AS A SUBSTITUTE FOR THE MATERIALS SPECIFIED. NO APPROVAL WILL BE GIVEN TO A SPECIFIC CATALOG NUMBER, MODEL, OR TYPE OF EQUIPMENT, PRIOR TO BIDDING. AFTER BIDDING, THE DECISION OF THE ARCHITECT AND/OR ENGINEER DETERMINING EQUAL MATERIALS WILL BE FINAL
- ITEMS TO THE G.C.:
- LIGHTING FIXTURE CUTS AND PERFORMANCE DATA. OUTLINE DRAWINGS AND DATA SHEETS OF EACH PANELBOARD, LOAD CENTERS, AND DISTRIBUTION

2. THE CONTRACTOR SHALL SUBMIT (3) IDENTICAL BOUND SETS OF SHOP DRAWINGS ON THE FOLLOWING

OUTLINE DRAWINGS OF ALL SWITCH GEAR COMPONENTS.

WIRING DEVICES AND COVERPLATES. ALL CIRCUIT BREAKERS INSTALLED IN PANELBOARDS, LOAD CENTERS, AND DISTRIBUTION PANELS.

C. SYSTEM GROUNDING

- GROUNDING SHALL COMPLY WITH REQUIREMENTS OF ARTICLE 250. ALL EXPOSED NONCURRENT CARRYING METALLIC PARTS OF ELECTRICAL EQUIPMENT, METALLIC RACEWAY SYSTEMS, METALLIC CABLE ARMOR, GROUNDING CONDUCTOR OF NONMETALLIC SHEATHED CABLES, GROUNDING CONDUCTOR IN NONMETALLIC RACEWAYS, AND GROUNDED CONDUCTORS OF THE WIRING SYSTEM SHALL BE GROUNDED
- GROUNDING CONDUCTOR (NEUTRAL) OF THE WIRING SYSTEM SHALL BE CONNECTED TO THE SYSTEM GROUNDING CONDUCTOR AT A SINGLE PLACE IN EACH SYSTEM BY REMOVABLE BONDING JUMPERS, SIZED ACCORDING TO THE APPLICABLE PROVISIONS OF THE NATIONAL ELECTRICAL CODE. THE GROUNDED CONDUCTOR (NEUTRAL) TO THE GROUNDING CONDUCTOR CONNECTION SHALL BE LOCATED IN THE ENCLOSURE FOR THE SYSTEM'S OVERCURRENT PROTECTION OR WHERE OTHERWISE INDICATED ON THE PLANS OR SPECIFICATIONS.
- 3. A GROUND BUS SEPARATE FROM THE NEUTRAL BUS SHALL BE PROVIDED IN ALL DISTRIBUTION PANELS AND PANELBOARDS. PROPER TORQUE ON GROUND BUS SHALL BE VERIFIED, PER MANUFACTURER'S RECOMMENDATIONS, PRIOR TO ENERGIZING EQUIPMENT.
- 4. GROUND BUSES AND NEUTRAL BUSES IN ALL DISTRIBUTION PANELS, LOAD CENTERS, PANELBOARDS, AND THOSE PROVIDED IN ANY EQUIPMENT SHALL BE ISOLATED EXCEPT WHERE REQUIRED TO BE CONNECTED
- AS SPECIFIED ABOVE FOR THE SERVICE ENTRANCE WHEN INDICATED ON THE DRAWINGS, EQUIPMENT GROUNDING CONDUCTORS SHALL BE EXTENDED FROM THE GROUND BUS IN THE DISTRIBUTION EQUIPMENT TO THE RECEPTACLE, FIXTURE OR DEVICE LUGS WHERE THEY ARE PROVIDED. WHERE LUGS ARE NOT PROVIDED, EQUIPMENT GROUNDING CONDUCTORS SHALL BE CONNECTED TO EQUIPMENT ENCLOSURES. THE CONNECTIONS SHALL BE ARRANGED SUCH THAT REMOVAL OF THE RECEPTACLE, EQUIPMENT GROUND CONDUCTORS, OR GROUND JUMPERS FROM
- GROUND BUSING SHALL NOT AFFECT THE GROUND SYSTEM. 6. RACEWAYS MAY NOT BE USED AS A GROUNDING CONDUCTOR FOR POWER AND LIGHTING CIRCUITS. ALL CONDUIT SHALL HAVE SEPARATE CODE SIZED GREEN GROUND WIRE INSTALLED IN THE CONDUIT TO
- INSURE A CONTINUOUS GROUNDING PATH. IN INACCESSIBLE LOCATIONS, MAKE CONNECTIONS BY EXOTHERMIC WELD PROCESS.
- 8. IN ACCESSIBLE LOCATIONS, CONNECTIONS SHALL BE MADE WITH BOLTED THROUGH, APPROVED

SOLDERLESS BRONZE GROUNDING DEVICES.

- 1. CONDUCTOR SIZES SHOWN ON THE DRAWINGS ARE BASED ON COPPER WIRE. UNLESS OTHERWISE SPECIFIED, ALL WIRE SHALL BE TYPE XHHW OR SE FOR FEEDERS OR BRANCH CIRCUITS LARGER THAN 4 AWG, TYPE THHN/THWN INSULATION FOR FEEDERS AND BRANCH CIRCUITS 4 AWG AND SMALLER.
- ALL BRANCH CIRCUIT WIRING SHALL BE COPPER. ALUMINUM CONDUCTORS MAY BE UTILIZED FOR SERVICE ENTRANCE AND PANEL FEEDERS. CONDUCTORS SHALL BE ALUMINUM ALLOW AA-8000 SERIES.
- THE WIRES SHALL BE MARKED WITH COLOR TO SIMPLIFY CIRCUIT IDENTIFICATION. UNLESS OTHERWISE REQUIRED BY LOCAL ORDINANCES GROUND WIRES SHALL BE GREEN, NEUTRAL WIRES SHALL BE 120V-WHITE, AND LIVE WIRES 208Y/120V AND 120/240 SHALL BE BLACK (PHASE A), RED (PHASE B), AND BLUE (PHASE C). CIRCUIT SHALL BE LABELED IN EACH J-BOX.
- ALL CONDUCTORS SHALL BE RATED 600 VOLT. 3. SPLICES IN EXTERIOR PULL BOXES AND MANHOLES SHALL BE WEATHERPROOF USING "SCOTCHCAST" SPLICE KIT OR APPROVED EQUAL. SEAL ENDS OF CONDUITS AND DUCTS WITH "DUCTSEAL" OR APPROVED EQUAL.
- 4. PROVIDE SOLID CONDUCTOR FOR 12 AWG AND SMALLER.
- 5. NO WIRE SHALL BE INSTALLED IN THE CONDUIT SYSTEM UNTIL THE CONDUIT SYSTEM IS COMPLETE. USE MINERALAC NO. 100 OR EQUIVALENT AS A LUBRICANT TO FACILITATE THE INSTALLATION OF THE CONDUCTORS IN THE CONDUIT SYSTEM.
- 6. MC CABLE WITH COPPER CONDUCTORS AND GROUND WIRE MAY BE USED WHERE PERMITTED.

- MC CABLE MAY BE USED AS ALLOWED BY THE NEC. WHERE CONDUIT ENTERS OUTLET BOXES, FIXTURES OR CABINETS, FIRMLY FASTEN WITH STEEL SET SCREW, COMPRESSION CONNECTORS. OR DOUBLE LOCKNUTS FOR GRC. ALL CONNECTIONS SHALL HAVE BUSHINGS OR INSULATED THROAT CONNECTORS. FIRMLY FASTEN CONDUIT TO THE BUILDING CONSTRUCTION. RUN EXPOSED CONDUIT PARALLEL TO THE BUILDING LINES, SUPPORTED BY APPROPRIATE HANGERS (UNISTRUT, T & B OR APPLETON, OR EQUAL).
- 3. CONDUIT PENETRATION THROUGH ROOF SHALL HAVE ROOF FLASHING WITH CAULK TYPE COUNTER
- FLASHING SLEEVE. INSTALLATION SHALL BE WATERTIGHT. 4. CONDUITS SHALL BE ROUTED PARALLEL AND PERPENDICULAR TO THE STRUCTURE.

- 1. EACH SWITCH, LIGHT, RECEPTACLE OR OTHER OUTLET, SHALL BE PROVIDED WITH A CODE SIZED, STEEL OUTLET BOX. JUNCTION AND PULL BOXES SHALL BE METAL AND CODE SIZED.
- BOXES INSTALLED IN POURED CEMENT FLOORS SHALL BE FLUSH TYPE CAST IRON OR STEEL WITH WATERTIGHT GASKETED COVERS. WHERE BOXES ARE INSTALLED IN FLOORS WITH TILE OR CARPET FLOOR COVERING, COVERS SHALL BE OF THE RECESSED TYPE TO ACCOMMODATE THE FLOOR
- BOXES INSTALLED FOR THE ALARM, COMPUTER, AND SECURITY SYSTEM SHALL BE PROVIDED WITH APPROPRIATE COVER PLATES.
- 4. BOXES FOR TELEPHONE, COMPUTER, T.V., FIRE ALARM, SECURITY, AND SIMILAR SYSTEMS SHALL BE MINIMUM 2-1/8" DEEP.

G WIRING DEVICES

- WALL SWITCHES SHALL BE SPECIFICATION GRADE AC SILENT TYPE SWITCHES, 20A 120/277 VOLT. 2. RECEPTACLES SHALL BE SPECIFICATION GRADE, DUPLEX TYPE. NEMA5-20R, 20 AMPERE, 120VOLT GROUNDED TYPE. SPECIAL APPLICATION RECEPTACLES SHALL BE INDICATED ON PLANS. MOUNT WITH
- THE GROUND DOWN. 3. DEVICE PLATES SHALL BE EQUAL TO SIERRA SMOOTH-LINE PLASTIC WALL PLATES. COLOR SHALL BE
- WHITE, UNLESS OTHERWISE NOTED.

4. RECEPTACLES IN OUTDOOR AND WET LOCATIONS SHALL BE INSTALLED WITH A HINGED OUTLET COVER/ENCLOSURE CLEARLY MARKED AND U.L. LISTED SUITABLE FOR WET LOCATIONS WHILE IN USE, EQUAL TO TAYMAC SPECIFICATION GRADE.

- H. PANEL BOARDS 1. CIRCUIT BREAKER TYPE AS INDICATED ON DRAWINGS. UNLESS INDICATED OTHERWISE, ALL PANELS SHALL HAVE PANEL HAVE PANEL BOARD TYPE CONSTRUCTION WITH BOLT-ON CIRCUIT BREAKERS FOR 30 PANFLS
- 2. MANUFACTURERS SHALL BE GENERAL ELECTRIC, SQUARE D, SEIMENS, CUTLER-HAMMER WITH VOLTAGE, SIZES, AND RATINGS AS INDICATED ON DRAWINGS.
- 3. THE CIRCUIT BREAKERS SHALL BE OPERABLE IN ANY POSITION AND BE REMOVABLE FROM THE FRONT OF THE PANEL BOARD WITHOUT DISTURBING THE ADJACENT UNITS. BRANCH BREAKERS SHALL BE OF SUCH DESIGN THAT COMBINATION OF SINGLE-POLE, DOUBLE-POLE, AND THREE-POLE BREAKERS CAN BE ASSEMBLED ON THE SAME PANEL. EACH BRANCH CIRCUIT SHALL BE CLEARLY NUMBERED. BRANCH AND MAN TERMINALS SHALL BE SOLDERLESS TYPE. HANDLE TIES TO FORM MULTI-POLE BREAKERS NOT ACCEPTABLE.

PROVIDE ALL LIGHTING FIXTURES, WIRED AND CONNECTED. THE DRAWINGS INDICATE THE FIXTURES FOR EACH LOCATION. PROVIDE LAMPS FOR ALL FIXTURES. THE LAMPS SHALL BE BY THE SAME MANUFACTURER. VERIFY CEILING CONSTRUCTION BEFORE ORDERING RECESSED UNITS. PROVIDE PLASTER FRAMES AND HANGERS AS REQUIRED. CEILING CONSTRUCTION, ARCHITECTURAL ACCESSORIES, VOLTAGE, AND BALLASTS TO MEET THE EXISTING CEILING CONDITION.

- 1. TELEPHONE WALL OUTLETS SHALL CONSIST OF STANDARD BOXES MOUNTED 18" ABOVE THE FLOOR UNLESS OTHERWISE INDICATED. PROVIDE A TERMINAL MOUNTING BOARD FOR THE INCOMING SERVICE
- 2. CABLE TELEVISION OUTLETS SHALL CONSIST OF STANDARD BOXES MOUNTED 18" ABOVE THE FLOOR UNLESS OTHERWISE INDICATED. PROVIDE A TERMINAL MOUNTING BOARD FOR THE INCOMING SERVICE CABLE.

1. GUARANTEE ALL MATERIAL FURNISHED AND ALL WORKMANSHIP PERFORMED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OF WORK. ANY DEFECTS DEVELOPING WITHIN THIS PERIOD, TRACEABLE TO MATERIAL FURNISHED AS A PART OF THIS SECTION OR WORKMANSHIP PERFORMED HEREUNDER, SHALL BE MADE GOOD AT NO EXPENSE TO THE OWNER.

L. FIRE SEALING NOTES

- COORDINATE CONSTRUCTION OF OPENINGS AND PENETRATING ITEMS TO ENSURE THAT THROUGH-PENETRATION FIRESTOP SYSTEMS ARE INSTALLED ACCORDING TO SPECIFIED AND APPLICABLE
- COORDINATE SIZING OF SLEEVES, OPENINGS, CORE-DRILLED HOLES, OR CUT OPENINGS TO ACCOMMODATE THROUGH-PENETRATION FIRESTOP SYSTEMS.
- 3. DO NOT COVER UP THROUGH-PENETRATION FIRESTOP SYSTEM INSTALLATIONS UNTIL EXAMINED BY INSPECTOR, IF REQUIRED BY AUTHORITIES HAVING JURISDICTION.
- 4. COMPATIBILITY: PROVIDE THROUGH-PENETRATION FIRESTOP SYSTEMS THAT ARE COMPATIBLE WITH ONE ANOTHER; WITH THE SUBSTRATES FORMING OPENINGS; AND WITH THE ITEMS, IF ANY, PENETRATING THROUGH-PENETRATION FIRESTOP SYSTEMS, UNDER CONDITIONS OF SERVICE AND APPLICATION, AS DEMONSTRATED BY THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER BASED ON TESTING AND
- PROVIDE COMPONENTS FOR EACH THROUGH-PENETRATION FIRESTOP SYSTEM THAT ARE NEEDED TO INSTALL FILL MATERIALS. USE ONLY COMPONENTS SPECIFIED BY THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER AND APPROVED BY QUALIFIED TESTING AND INSPECTING AGENCY FOR FIRESTOP SYSTEMS INDICATED.
- PROVIDE SLEEVES THROUGH ALL FIRE-RATED WALLS AND FILL VOIDS SURROUNDING SLEEVES AND INTERIOR TO SLEEVES AROUND PIPING WITH FIRE STOP PUTTY WITH U.L. LISTED 3 HOUR RATING
- INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS. FIRE SEAL ALL PIPING, CONDUIT, CABLE, ETC PENETRATIONS ROUTED THROUGH FIRE RATED WALLS.
- PROVIDE FIRE RATED ENCLOSURES OR WRAPS ON LIGHT FIXTURES AND OTHER ITEMS PENETRATING FIRE RATED CEILINGS, FLOOR/CEILING/ CEILING/ROOF ASSEMBLIES TO MAINTAIN UL LISTING FOR CONSTRUCTION.

SYMBOLS LEGEND

NOTE: THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS, ETC.

ARE NECESSARILY USED ON THE DRAWINGS.

LIGHTING FIXTURES - SYMBOL/LETTER INDICATES LIGHT FIXTURE AS INDICATED ON FIXTURE SCHEDULE LED FIXTURE (SEE LIGHTING FIXTURE SCHEDULE)



- \oslash DOWNLIGHT FIXTURE WITH EMERGENCY BATTERY DRIVER UNIT
- WALL MOUNTED FIXTURE WITH EMERGENCY BATTERY DRIVER UNIT
- PENDANT MOUNTED FIXTURE WITH EMERGENCY BATTERY DRIVER UNIT
- \circ DOWNLIGHT FIXTURE
- WALL MOUNTED FIXTURE
- PENDANT MOUNTED FIXTURE
- WALL WASHER

LIGHTING CONTROLS

- SINGLE FACE EXIT SIGN UNIVERSAL MOUNTED
- SINGLE FACE EXIT SIGN W/ DIRECTIONAL ARROWS -
- DOUBLE FACE EXIT SIGN W/ DIRECTIONAL ARROWS -UNIVERSAL MTD

DUAL HEADED EMERGENCY UNIT

COMBO DUAL HEADED EMERGENCY AND EXIT SIGN UNIT

SINGLE POLE SWITCH @ +48" UNLESS NOTED Sabc SWITCH BANK @ +48" UNLESS NOTED. LOWER CASE

- LETTER INDICATES FIXTURE CONTROLLED. 3-WAY SWITCH @ +48" UNLESS NOTED
- 4-WAY SWITCH @ +48" UNLESS NOTED
- DIMMER SWITCH SIZE AS REQUIRED @ +48" UNLESS NOTED
- MANUAL MOTOR STARTER WALL SWITCH WITH OCCUPANCY SENSOR. DIGITAL LOW VOLTAGE WALL SWITCH. SWITCH @
- +48" UNLESS NOTED.
- SLVD TWO BUTTON DIGITAL LOW VOLTAGE WALL SWITCH. PROVIDES ON/OFF/0-10V DIMMING. SWITCH
- LIGHTING CONTROLS CEILING MOUNT OCCUPANCY SENSOR
- PP LIGHTING CONTROLS POWER PACK

POWER DISTRIBUTION

- SWITCHBOARD, MOTOR CONTROL CENTER OR DISTRIBUTION BOARD
- 277/480V, 3 PHASE, 4 WIRE PANELBOARD, UNO
- 120/208V, 3 PHASE, 4 WIRE PANELBOARD, UNO
- 120/240V, 1 PHASE, 3 WIRE PANELBOARD, UNO

TRANSFORMER POWER DEVICES

- SPECIAL HEAVY DUTY RECEPTACLE SIZE AS NOTED.
- @ +18" UNLESS NOTED → 1/2 SWITCHED RECEPTACLE @ +18" UNLESS NOTED
- FIRE RATED POKE THRU WITH TYPE INDICATED
- FLUSH FLOOR BOX WITH TYPE INDICATED
- SINGLE RECEPTACLE @ +18" UNLESS NOTED
- DUPLEX RECEPTACLE @ +18" UNLESS NOTED DOUBLE DUPLEX RECEPTACLE @ +18" UNLESS NOTED
- DUPLEX RECEPTACLE INSTALLED ABOVE COUNTERTOP GFCI-RATED DUPLEX RECEPTACLE
- ARC FAULT RATED DUPLEX RECEPTACLE
- TAMPER RESISTANT RATED DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE WITH WEATHERPROOF COVERPLATE WP @ 18" UNLESS NOTED
- JUNCTION BOX

☐ DISCONNECT SWITCH — SIZE AND TYPE NOTED

AUXILIARY SYSTEMS

- MECHANICAL EQUIP. CONNECTION, SEE SCHED. ON MECH. PLAN
- TELEPHONE OUTLET@ +18" UNLESS NOTED

DATA OUTLET @ +18" UNLESS NOTED

- COMBINATION TELEPHONE/DATA OUTLET @ +18" UNLESS NOTED
- TELEVISION OUTLET @ +60" UNLESS NOTED SMOKE DETECTOR
- HEAT DETECTOR
- DUCT SMOKE DETECTOR
- REMOTE TEST STATION WITH INDICATING LIGHT. MOUNT AT 48" AFF UNO.
- WEATHERPROOF NOTIFICATION HORN/STROBE DEVICE FOR WATERFLOW NOTIFICATION INSTALL PER NFPA REQUIREMENTS

FOR TERMINATION. REFER TO ASSOCIATED NOTE FOR BRANCH CIRCUIT CONDUCTOR SIZES.

<u>GENERAL</u>

 \sim

———— CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING

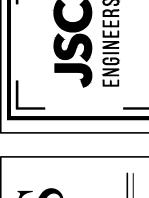
AUXILIARY SYSTEM TERMINAL CABINET

- ————— CONDUIT RUN BELOW FLOOR OR GRADE ` HOMERUN TO PANELBOARD, INFORMATION AT ARROWS ARE CIRCUIT NUMBERS AND PANELBOARD
- 5 NDICATES 1/2" CONDUIT CONCEALED IN CEILING OR WALL WITH (3) CONDUCTORS. (1) PHASE, (1) NEUTRAL AND (1) GROUND WIRE. ALL ARE #12 AWG UNLESS NOTED OTHERWISE.
- (E) OR ETR: DENOTES EXISTING ITEM/EQUIPMENT TO REMAIN

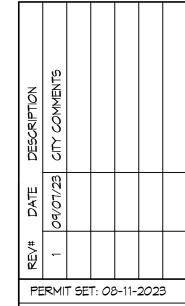
SMOTHERS. NUMBER

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Control of the contro



JSC PROJECT# 18-142 **ELECTRICAL SPECIFICATIONS**

AND SYMBOLS



GENERAL NOTES

- A. DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL PLANS OR FIELD MEASUREMENTS FOR DIMENSIONS.
- B. ALL WORK SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70) AND ALL LOCAL BUILDING CODES AND AMENDMENTS.
- C. ALL ROOF AND WALL PENETRATIONS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR. PROVIDE ALL REQUIRED SLEEVES, FLASHINGS, CURBS, REINFORCED ANGLES, SUPPORTING FRAMES, ETC. UNLESS THEY ARE SPECIFICALLY CALLED OUT TO BE FURNISHED BY OTHERS.
- D. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRED TO PROPERLY INSTALL ALL SYSTEMS AS INTENDED, WITHIN THE CONFINES OF THE SPACE AVAILABLE, AND WITHOUT INTERFERENCES.
- E. THIS CONTRACTOR SHALL PERFORM ALL WORK INDICATED AND/OR AS REQUIRED FOR THE PROPER INSTALLATION AND OPERATION OF THE ELECTRICAL SYSTEMS.
- F. ALL WIRING SHALL BE IN APPROVED RACEWAY.
- G. WIRE SIZE SHALL BE MINIMUM #12 AWG, THWN SOLID COPPER UNLESS OTHERWISE NOTED. PROVIDE GROUND WIRE WHERE REQUIRED BY CODE. INCREASE WIRE SIZE TO COMPENSATE FOR VOLTAGE DROP WHERE TOTAL LENGTH OF ANY BRANCH EXCEEDS 100 FEET.
- H. MAXIMUM NUMBER OF UNGROUNDED WIRES IN ANY CONDUIT SHALL BE THREE. ADDITIONAL WIRES ARE ACCEPTABLE IF WIRE SIZE IS INCREASED TO ALLOW FOR DERATING PER CODE. PROVIDE ADDITIONAL WIRES FOR SWITCHING AS REQUIRED.
- I. REFER TO LIGHTING FIXTURE SCHEDULE FOR LIGHT FIXTURE TYPES AND REQUIREMENTS.
- J. LIGHT FIXTURES SHOWN WITH EM ARE EMERGENCY FIXTURES.
- K. CONNECT ALL EXIT SIGNS AND EMERGENCY LIGHTING UNITS TO THE INDICATED CIRCUIT WITH A SEPARATE AND UN-SWITCHED CONDUCTOR BYPASSING ALL CONTROLS AND CONTACTORS. REFER TO MANUFACTURER'S WRITTEN INSTRUCTIONS FOR PROPER INSTALLATION AND TESTING.

KEYED PLAN NOTES

- 1. CIRCUIT VIA TIMECLOCK/PHOTOCELL.
- 2. (1) 3/4" -2 #8 & 1 #10 GND.

Development Services Depart Loc's Summit, Missouri 10/23/2023

JUSTIN R. SMOTHERS

NUMBER PE-2012003568

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CONSTRUCTION
As Noted on Plans Review

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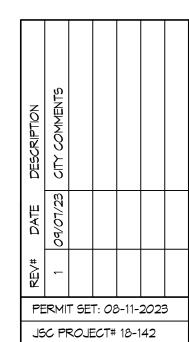


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GRONBERG ARCHITECTS, P.C.



ELECTRICAL LIGHTING

E2

HP-37,39,41 HP-9 5 HP-12 5 5 6 W 6 WP POWER PLAN - MAIN LEVEL SCALE : 1/8" = 1'-0"

GENERAL NOTES

- A. DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL PLANS OR FIELD MEASUREMENTS FOR DIMENSIONS.
- B. ALL WORK SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70) AND ALL LOCAL BUILDING CODES AND AMENDMENTS.
- C. ALL ROOF AND WALL PENETRATIONS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR. PROVIDE ALL REQUIRED SLEEVES, FLASHINGS, CURBS, REINFORCED ANGLES, SUPPORTING FRAMES, ETC. UNLESS THEY ARE SPECIFICALLY CALLED OUT TO BE FURNISHED BY OTHERS.
- D. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRED TO PROPERLY INSTALL ALL SYSTEMS AS INTENDED, WITHIN THE CONFINES OF THE SPACE AVAILABLE, AND WITHOUT INTERFERENCES.
- E. THIS CONTRACTOR SHALL PERFORM ALL WORK INDICATED AND/OR AS REQUIRED FOR THE PROPER INSTALLATION AND OPERATION OF THE ELECTRICAL SYSTEMS.
- F. THE ELECTRICAL SYSTEM DESIGN IS BASED IN PART ON THE SPECIFIED HVAC EQUIPMENT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE EXACT LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL HVAC EQUIPMENT BEING FURNISHED. ANY CHANGES TO THE ELECTRICAL SYSTEM DUE TO HVAC EQUIPMENT SUBSTITUTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- G. ALL POWER WIRING SHALL BE BY THE ELECTRICAL CONTRACTOR. ALL CONTROL WIRING SHALL BE ROUTED BY THE ELECTRICAL CONTRACTOR WITH FINAL CONTROL DEVICE (T-STATS) LANDINGS BY THE MECHANICAL CONTRACTOR.
- H. ALL WIRING SHALL BE IN APPROVED RACEWAY.
- I. WIRE SIZE SHALL BE MINIMUM #12 AWG, THWN SOLID COPPER UNLESS OTHERWISE NOTED. PROVIDE GROUND WIRE WHERE REQUIRED BY CODE. INCREASE WIRE SIZE TO COMPENSATE FOR VOLTAGE DROP WHERE TOTAL LENGTH OF ANY BRANCH EXCEEDS 100 FEET.
- J. MAXIMUM NUMBER OF UNGROUNDED WIRES IN ANY CONDUIT SHALL BE THREE. ADDITIONAL WIRES ARE ACCEPTABLE IF WIRE SIZE IS INCREASED TO ALLOW FOR DERATING PER CODE. PROVIDE ADDITIONAL WIRES FOR SWITCHING AS REQUIRED.
- K. FIRE ALARM, AUDIO/VIDEO AND SURVEILLANCE SYSTEMS BY OTHERS.
- L. ALL PORTIONS OF WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND NATIONAL CODES, ORDINANCES, AND STANDARDS.
- M. VERIFY ALL EQUIPMENT LOCATIONS WITH OWNER PRIOR TO ROUGH-IN.

KEYED PLAN NOTES

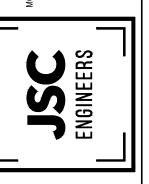
- 1. CONDUIT AND FEEDERS FROM UTILITY TRANSFORMER TO BUILDING ELECTRICAL SERVICE FOR 'MS1'. COORDINATE ROUTE OF TRENCHING WITH CIVIL DRAWINGS PRIOR TO BID. REFER TO SHEET E4 FOR ADDITIONAL INFORMATION.
- 2. PROVIDE 2"C TO PROPERTY LINE FOR BUILDING TELEPHONE SERVICES. TERMINATE AT LOCATION DIRECTED BY LOCAL SERVICE PROVIDER.
- 3. COORDINATE QUANTITY OF TAMPER/FLOW SWITCHES WITH FIRE PROTECTION
- 4. (1) 3/4" -2 #8 & 1 #10 GND.
- 5. CIRCUIT VIA TIMECLOCK/PHOTOCELL.
- PROVIDE JBOX FOR TENANT SIGNAGE. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS.

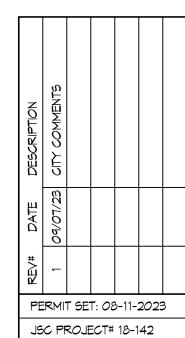
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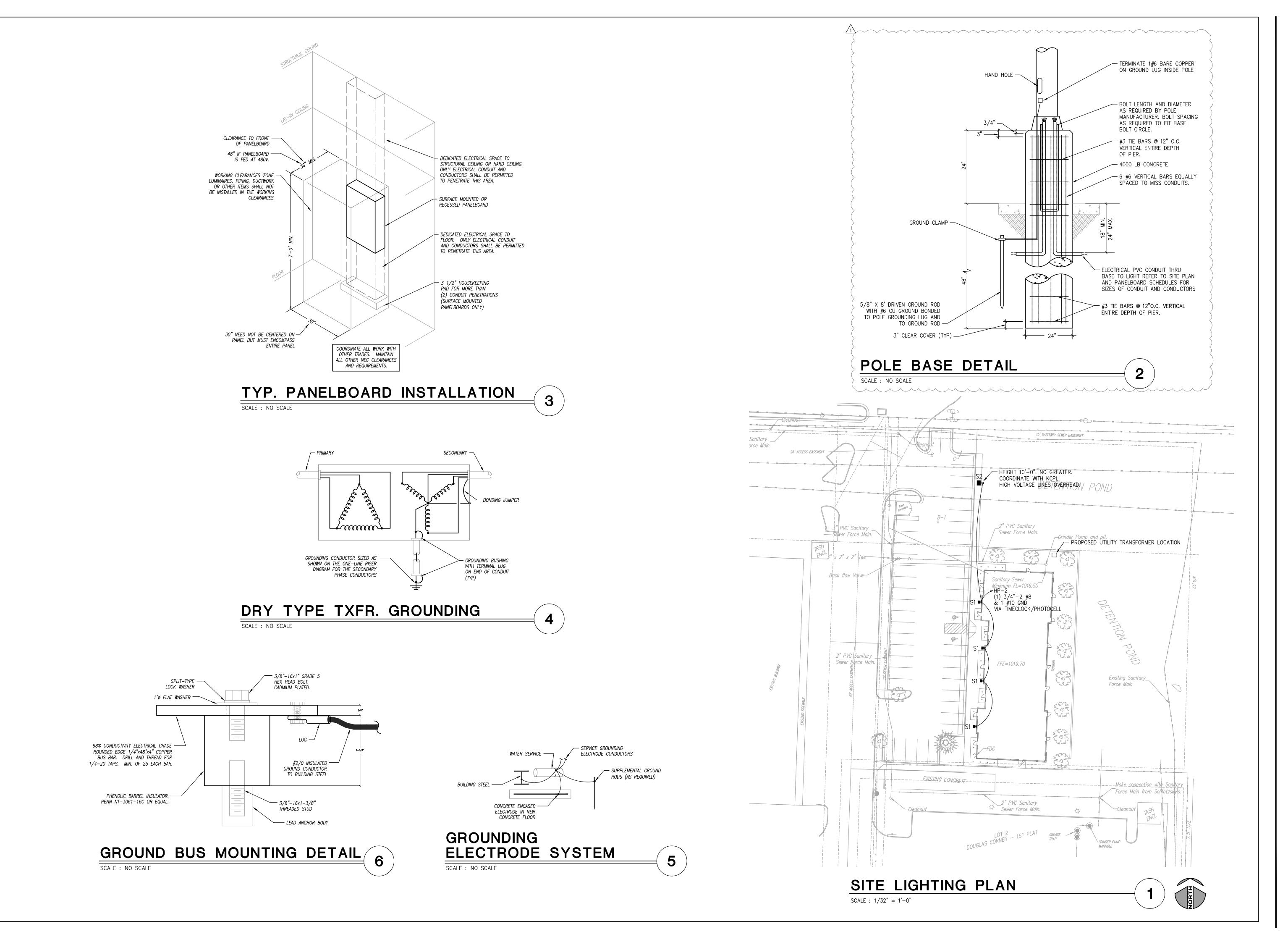
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Lee's Summit, Missouri

JUSTIN R.
SMOTHERS

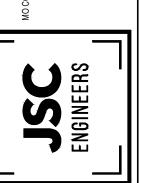
NUMBER
PE-2012003568

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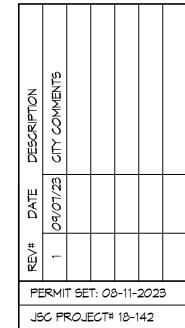


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ELECTRICAL SITE LIGHTING AND DETAILS

E4

			ELEC	TRICAL LIGH	ITING SCHEDULE (OR	EQUAL. VERIFY ALL SELECTIONS AND FINISHES WITH OWNER OR ARCHITECT PRIOR TO ORDERING).		
FIXTURE TYPE	MA NAME	NUFACTURER CATALOG NUMBER	VOLT AMPS	MOUNTING	LAMP TYPE	REMARKS	VOLT	REMARKS
A	WILLIAMS	76-4-L53/840-WG-7611-DR-120	36	SURFACE	36 WATT, 4000K, 5,300 LUMEN LED	4'-0" LONG LED STRIP FIXTURE.	120	1
В	WILLIAMS	77 SERIES	64	PENDANT	TWO (2) 32 WATT 48" T8 LINEAR FLUORESCENT.	4'-0" LONG SPECIFICATION-GRADE STRIP FIXTURE. CHAIN MOUNT FROM CEILING AT 8-6" A.F.F. ALL PARTS PAINTED WHITE AFTER FABRICATION. ELECTRONIC BALLAST.	120	1
С	WILLIAMS	H60 SERIES	72	RECESSED	L64/840 LUMEN PACKAGE, 80 CRI, 72 WATTS	6" ROUND APERTURE RECESSED LED DOWNLIGHT. SELF-FLANGED, SEMI-SPECULAR LOW IRIDESCENT ALUMINUM REFLECTOR. MEDIUM DISTRIBUTION.	120	1,2
D	DUAL-LITE	PG SERIES	5	WALL	ONE (1) 5 WATT LED ARRAY.	EMERGENCY LIGHT, WET LOCATION, LED, DIE—CAST ALUMINUM WET LOCATION LISTED EMERGENCY LIGHTING UNIT FOR INDOOR/OUTDOOR INSTALLATION FEATURING LONG—LIFE, HIGH—OUTPUT LEDS. FINISH DARK BRONZE. MAINTENANCE—FREE NICKEL—CADMIUM BATTERY FOR 90 MINUTE OPERATION OF LAMPS. FULLY AUTOMATIC, SOLID—STATE CHARGER WITH TEST SWITCH AND AC—ON LIGHT. PROVIDE BATTERY HEATER FOR COLD TEMPERATURE OPERATION.	120	1
X	DUAL-LITE	LT SERIES	5	WALL	TOTAL POWER CONSUMPTION: 5.25 WATTS. EMERGENCY: TWO (2) 5 WATT MR-16 HALOGEN. EXIT: FOUR (4) HIGH-OUTPUT LEDS.	COMBINATION EMERGENCY LIGHTING UNIT / EXIT LIGHT. UV—STABLE THERMOPLASTIC HOUSING, FINISH WHITE. ADJUSTABLE EYEBALL STYLE LIGHTING HEADS WITH GLASS LENS FOR EMERGENCY LIGHT. EXIT SIGN TO HAVE RED LETTERS WITH DIRECTIONAL ARROWS AS INDICATED ON THE PLANS. MAINTENANCE—FREE NICKEL—CADMIUM BATTERY FOR 90 MINUTE OPERATION OF LAMPS AND EXIT SIGN. FULLY AUTOMATIC, SOLID—STATE CHARGER WITH TEST SWITCH AND AC—ON LIGHT.	120	1
S1	WILLIAMS	VWVP-L60-730-TFT- CGL-CD-120	70	WALL	558 WATT, 4000K, 70 CRI LED	WALL ARM MOUNT AREA LED LIGHT. EXTRUDED ALUMINUM DRIVER ENCLOSURE THERMALLY ISOLATED FROM LED SQUARES. DIE CAST ALUMINUM END CAPS ENCLOSE HOUSING AND DIE—CAST ALUMINUM HEAT SINKS. IP66 RATED. HIGH—EFFICIENCY, INJECTION MOLDED ACCULED OPTICS. LOW TEMP STARTING BALLAST. STANDARD POWDER COAT FINISH— COORDINATE EXACT COLOR WITH ARCHITECT.	120	1
S2	EATON MCGRAW EDISON	GLEON-AF-01- LED-E1-SL4-HSS	60	POLE	279 WATT, 4000K, 70 CRI LED	POLE MOUNT AREA LED LIGHT. EXTRUDED ALUMINUM DRIVER ENCLOSURE THERMALLY ISOLATED FROM LED SQUARES. DIE CAST ALUMINUM END CAPS ENCLOSE HOUSING AND DIE—CAST ALUMINUM HEAT SINKS. IP66 RATED. HIGH—EFFICIENCY, INJECTION MOLDED ACCULED OPTICS. LOW TEMP STARTING BALLAST. 12" EXTRUDED ALUMINUM MOUNTING ARM. STANDARD POWDER COAT FINISH— COORDINATE EXACT COLOR WITH ARCHITECT. HEIGHT OF FIXTURE AND POLE TO BE NOT GRETER THAN 10'—0".	120	1,3
S3	WILLIAMS	WAVR2-1-26Q- G24Q3-RC-0-120	26	WALL	26 WATT, CFL	ROUND WALL SCONCE — COORDINATE EXACT COLOR WITH ARCHITECT.	120	1
		-	<u> </u>		-			

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DELLADIC	

- 1. FURNISH WITH AND INSTALL ALL NECESSARY HARDWARE AND MOUNTING BRACKETS. 2. WHERE FIXTURE IS LABELED "EM", PROVIDE WITH 90 MINUTE EMERGENCY BALLAST.
- 3. POLE SHALL BE 4" SHAFT, 0.120" WALL THICKNESS, WITH HAND HOLE, GROUND LUG AND FULL BASE COVER.

GENERAL NOTES (APPLICABLE TO ALL FIXTURES):

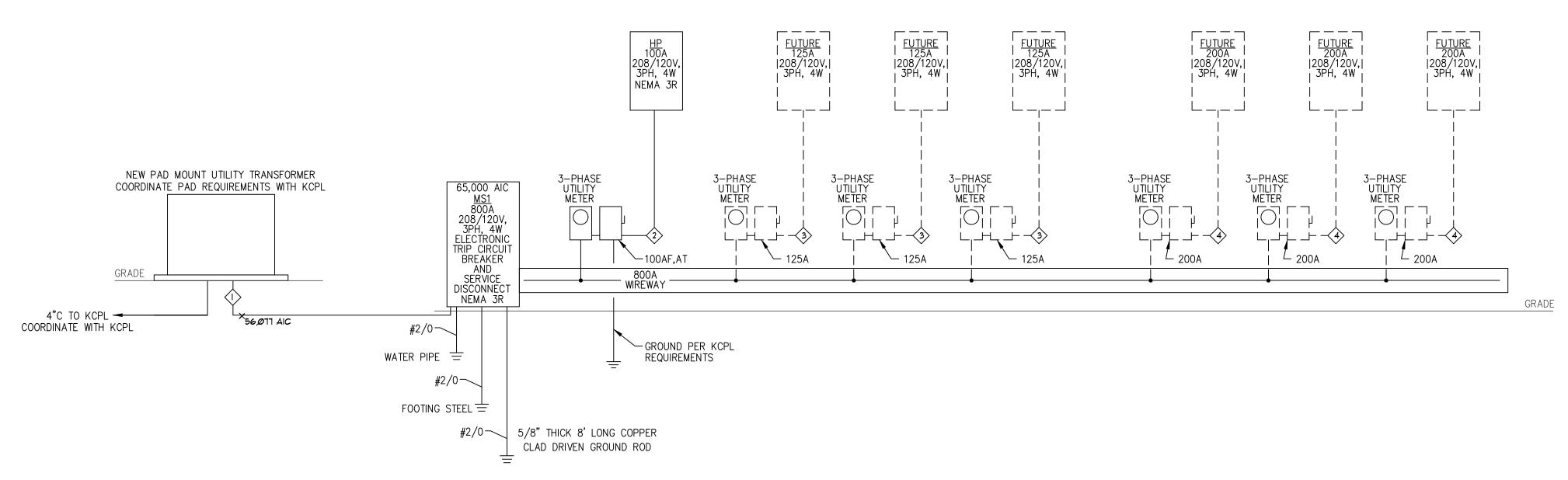
1) ALL FIXTURES UTILIZING LINEAR FLUORESCENT LAMPS SHALL COMPLY WITH NEC 410.130(G) REQUIREMENTS FOR DISCONNECTING MEANS. CONTRACTOR SHALL SUPPLY SAME IF NOT STANDARD ON FIXTURE.

2) ALL BALLASTS FOR FLUORESCENT FIXTURES SHALL BE ELECTRONIC PROGRAMMED START.

PAI				HP				VOLTA		208/120		3PH, 4	W			CIRCUIT CODES: 1=(CONTINUOUS				
LOC				ELECTRICAL ROOM				BUS:	1	00 AMP	S					2=(NON-CONTIN		SLO	AD)	
SHEE			E:	E3/ E5				MAIN:		M.L.O.						3=(RECEPTACLE				
AIC F				18,000						URFAC						4=(KITCHEN EQU				
CK		С	В	LOAD DESIGNATION				LOAD		PHASES	3	LOAD	L			LOAD DESIGNATION	C	В	CI	K
NO.	CODE	TRIP	POLE	DESCRIPTION	MISC	REC	HE	VA	Α	В	С	VA	LIE	REC	MISC	DESCRIPTION	POLE	TRIP	CODE	
1	3	20	1	GENERAL OUTLETS				360	700	////////	/////////	340				OUTDOOR POLE/FLOOD LIGHTS*	1	20	1	I
3	3	20	1	GENERAL OUTLETS				360		1538	/////////	1178				OUTDOOR FLOOD/DOWNLIGHTS *	1	20	1	Ī
5	2	20	1	OUTDOOR TENANT SIGN *				1000	111111111	/////////	1890	890				OUTDOOR FLOOD/DOWNLIGHTS *	1	20	1	Ī
7	1	20	1	OUTDOOR TENANT SIGN *				1000	2000			1000				OUTDOOR TENANT SIGN *	1	20	1	I
9	1	20	1	OUTDOOR TENANT SIGN *				1000		2000	/////////	1000				OUTDOOR TENANT SIGN *	1	20	1	1
11	1	20	1	OUTDOOR TENANT SIGN *				1000		111111111	2000	1000				OUTDOOR TENANT SIGN *	1	20	1	1
13	2			SPACE					288	////////	////////	288				UH-2	1	20	2	
15	2			SPACE						288		288				UH-1	1	20	2	
17	2			SPACE							1417	1417				INDOOR LIGHTS	1	20	1	
19	2			SPACE					0	111111111	////////					SPARE	1	20	2	
21	2			SPACE						0						SPARE	1	20	2	•
23	2			SPACE							0					SPARE	1	20	2	
25	2			SPACE					0		/////////					SPARE	1	20	2	•
27	2			SPACE						0						SPACE			2	
29	2			SPACE						111111111	0					SPACE			2	
31	2			SPACE					0							SPACE			2	
33	2	20		GP-1				1560		1560	////////					SPACE			2	1
35	2		2	1				1560		////////	1560					SPACE			2	•
37	2	20		EUH-1				1000	1000	111111111	111111111					SPACE			2	1
39	2			1				1000		1000						SPACE			2	
41	2		3	1				1000		/////////	1000					SPACE			2	
					'			TOTAL	3988	6386	7867					CONNECTED KVA	18.2			•
								į.								CONNECTED KVA (CODE 1)	9.8			
-	* CIF	CILII	T VI	A TIMECLOCK/PHOTOCELL TO BE PRO	OVID	FD	AS	PART O	F THIS	BID						CONNECTED KVA (CODE 2)	7.7			
	OII	. 5,51	,,		- 1.6											CONNECTED KVA (CODE 3)	0.7			
IOP	NIA C	ME		DOUGLAS CORNER												CONNECTED KVA (CODE 4)	0.0			
																	20.7	1		-
ISSI	JE I	JAI		10/16/2018												FEEDER DEMAND KVA	20./			

PANEL SCHEDULE

SCALE : NO SCALE



ELECTRICAL	SINGLE	LINE	DIAGRAM	1
CALE : NO SCALE				-

	FEEDER SCHEDULE
FEEDER NUMBER	CONDUIT AND CONDUCTOR SIZES
1	(4) 4" W/4 #250MCM AL & 1 #3/0 AL GND EACH
$\langle 2 \rangle$	(1) 1 1/4" W/4 #3 & 1 #8 GND
3>	FUTURE 125A FEEDER
4>	FUTURE 200A FEEDER

THE DESIGN PROFESSIONAL HAS PERFORMED ALL THE REQUIRED VOLTAGE DROP CALCULATIONS FOR ALL BRANCH CIRCUITS AND FEEDERS PER THE NATIONAL ELECTRICAL CODE, ARTICLE 210.19(A)(1) FPN NO. 4.

THE DESIGN PROFESSIONAL HAS PERFORMED ALL THE REQUIRED SHORT CIRCUIT CALCULATIONS AND THE AIC RATING INDICATED FOR EACH DEVICE IS ADEQUATE TO PROTECT THE EQUIPMENT AND THE ELECTRICAL SYSTEM.

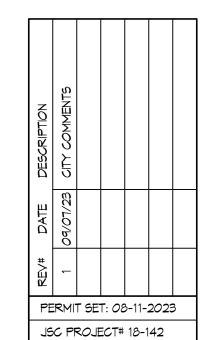
EQUIPMENT	SCA **	SCCR	NOTES
SERVICE DISC.	50,559	65,000	1,2
PANELBOARD HP	14,053	18,000	1,2

- 1. RATING BASED ON AN ASSUMED FAULT AT UTILITY CO. TRANSFORMER OF 56,077 AIC.
- 2. EQUIPMENT MAY BE SERIES RATED.
- ** CALCULATIONS PERFORMED USING BUSSMANN POINT-TO-POINT METHOD.

CONSTRUCTION
As Noted on Plans Review







ELECTRICAL SCHEDULES AND SINGLE LINE DIAGRAM