GENERAL NOTES

A. GENERAL

1. These notes shall be read in conjunction with the Specifications and the Drawings. In the event of a conflict, notify the Architect for clarification.
2. Before executing anything herein shown, examine actual job conditions. Report any discrepancy, dimensional or otherwise, between architectural and structural Drawings and any other error, omission, or difficulty affecting the work to the Architect and to the Structural Engineer for review.
3. Any condition encountered in the existing structural system which is different from that indicated in Drawings or which might create a failure or hazard shall be brought to the immediate attention of the Architect.
4. The Owner or his Representative reserves the right to inspect any material, fabrication, or workmanship at any time in field or shop for conformance to the Specifications and Drawings.
5. All details and sections are intended to be typical and shall be construed to apply to any similar situation elsewhere, except where a different detail is shown.
6. All concrete and cmu alls shall be temporarily braced until floor and roof decks have been installed and all connections between these elements have been made. The contractor is responsible for the design of the bracing.
7. The contractor is responsible for structural integrity and stability of existing structures during demolition and new construction.

B. DESIGN

1. Codes, specifications and standards (latest editions, U.N.O.)
   a. All design and construction shall conform to the International Building Code (2018) as amended and adopted by the City of Lee's Summit, Missouri.
   b. All construction shall comply with the provisions of the following codes, specifications and standards, except where noted to the contrary on drawings and specifications or where more stringent requirements are specified or shown:
      - MCIB "Specifications for Concrete Work"
      - ACI 117 "Standard Specifications for Tolerance for Concrete Construction and Materials"
      - ACI 301 "Specifications for Structural Concrete for Buildings"
      - ACI 318 "Building Code Requirements for Reinforced Concrete"
      - ACI 530 "Building Code Requirements for Masonry Structures"
      - ASCE 7 "Minimum Design Loads for Buildings and Other Structures"
      - AISC "Load and Resistance Factor Design (LRFD) Specification for Structural Steel Buildings"
      - AISI "Specifications for the Design of Cold-Formed Steel Structural Members"
      - SJI "Specifications, Load Tables, and Weight Tables for Steel Joist and Joist Girders"
      - SDI "Steel Deck Manual for Floor Decks and Roof Decks"
      - AWS D1.1 "Structural Welding Code - Steel "
2. Design Loads:
   a. Future Roof - Snow (incl. rain on snow)
      - Flat Roof Snow Load, Pf 24 psf
      - Snow Exposure Factor, Ce 1.00
      - Snow Importance Factor, Is 1.20
      - Thermal Factor, Ct 1.00
   b. Wind
      - Basic Wind Speed (3 second gust), V 130 mph
      - Risk Category IV
      - Wind Exposure C
      - Internal Pressure Coefficient 0.18
   c. Seismic
      - Risk Category IV
      - Seismic Design Category C
      - Seismic Importance Factor, Ie 1.50
      - Spectral Response Acceleration, Ss 0.099g
      - Spectral Response Acceleration, S1 0.068g
      - Spectral Response Coefficient, Sds 0.086g
      - Spectral Response Coefficient, Sdl 0.068g
      - Site Class C
      - Basic Seismic-Force-Resisting System: Dual Systems With Intermediate reinforced concrete moment frames w/ ordinary reinforced concrete shear walls
      - Seismic Response Coefficient, Cs 0.023
      - Response Modification Factor, R 5.5
      - Analysis Procedure Equivalent Lateral Force
   d. Roof Live Load 30 psf
   e. Floor Live Load 100 psf
3. Foundations are designed for the following net allowable bearing capacities:
   a. Drilled Pier on limestone 50,000 psf
4. Foundations and retaining walls have been designed for the following equivalent fluid pressures:
   a. Active (Ka) 40 pcf
   b. At-Rest (Ko) 60 pcf
   c. Passive (Kp) 260 pcf

C. EARTHWORK

1. Refer to specification for access to geotechnical report.
2. Foundation design is based on a soils investigation by Alpha - Omega Geotech
3. Refer to Drawings and Specifications for details of fill and compaction requirements.
4. Foundation wall backfill shall not be unbalanced by more than two (2) feet on either side at any time or placed before the interior floors and shear walls are placed.
5. At stepped footings, place the lower footing first and run footing a minimum of 1 foot under upper footing.
6. Clean footing excavations immediately before concrete is placed to remove all material softened or loosened.
7. Place footings against undisturbed earth (i.e. bottom & sides).
8. All perimeter footings and footings in unheated portions of the building should extend a minimum of 3'-0" below final grade.

D. CONCRETE

1. Concrete used in the Work shall have the following minimum 28-day ultimate compressive strengths:
   a. Drilled Piers, Footings, Grade Beams Interior Slabs-On-Grade: 4000 psi
   b. Columns and Concrete Walls: 6000 psi
   c. Framed Slabs: 4500 psi
2. Portland Cement: ASTM C 150, Type 1.
3. Water-reducing admixtures: ASTM C 494.
4. Normal Weight Aggregates: ASTM C 33.
5. In case of integral construction, higher strength and lighter weight governs.
6. Air entrain all exterior concrete (admixture: ASTM C 260).
7. Do not use calcium chloride admixtures under any circumstances.
8. Reinforcing bars: ASTM A 615 Specifications, Grade 60, deformed. Bend bars cold.
9. Welded wire reinforcing (WWR): ASTM A 185.
10. Anchor bolts: Refer to "Steel" notes. Accurately locate anchor bolts with templates, and hold securely in position prior to and while placing concrete. Protect anchor bolts from construction activity until the structure above is in place. Inserting anchor bolts into partially hardened concrete is prohibited.
11. Maintain minimum concrete coverage for reinforcing as indicated, unless noted otherwise.
    a. 3 in. clear where concrete is deposited directly against earth.
    b. 2 in. clear where concrete is exposed to earth or weather but poured against forms for bars larger than #5.
    c. 1-1/2 in. clear where concrete is exposed to earth or weather, but poured against forms for bars #5 or smaller.
    d. 3/4 in. clear for slabs and walls formed above grade not exposed to weather.
    e. 1-1/2 in. clear for beam and columns formed above grade and not exposed to weather.
12. Lap all bars at splices in accordance with ACI 318, but not less than 48 bar diameters nor less than 18 inches unless noted otherwise. All horizontal wall bars shall be developed at corners either by bending not less than 18 inches around corners or with properly placed hooked and lapped corner bars. Lap WWR a minimum of 9". Reference Typical Details for column splice requirements.
13. Top and bottom bars in continuous footings shall run continuous through multiple spans, where possible. Otherwise, top bars shall splice within the middle 1/3 span and bottom bars shall splice (by lapping 3'-0) over supports.
14. Pour columns, walls, and pilasters to be monolithic.
15. All bar steel and WWR shall be properly supported and held accurately in place as recommended by the Concrete Reinforcing Steel Institute, except that maximum spacing of any bar or welded wire fabric support shall be 3 feet.
    a. Support top slab bars with continuous high chairs.
    b. Support beam bars on heavy beam bolsters.
    c. Support footing and grade beam bottom reinforcing on concrete bricks, concrete blocks, or mounds of poured concrete. Do not use any other support materials without the approval of the Engineer.
    d. Support WWR in slab-on-grade properly at the mid-depth of the slab. Hooking and pulling up mesh after concrete has started to take its initial set is prohibited.
18. Interior slabs-on-grade: Reference Drawings for thickness of slab and size of WWR reinforcement. Place slab on a 15 mil. vapor barrier over a free draining granular sub-base as recommended by the geotechnical engineer.
19. Where slabs-on-grade make an abrupt change in direction, such as at doors and corners or ends of walls, provide 1-#4 by 4 feet across the reentrant corner.
20. Openings in slabs and walls: Provide 2 - #5 extra bars each side of opening extending 2 feet past the opening, unless noted otherwise. Do not provide or cut any openings or sleeves in slabs or walls other than those shown on the Structural Drawings, unless approved by the Structural Engineer.

E. MASONRY

1. Concrete masonry units (CMU): ASTM C 90, minimum net area compressive strength of 2800 psi for type M or S mortar and 3050 psi for Type N mortar.
2. Mortar: Portland cement and lime, and proportioned in accordance with ASTM C 270 for the following types:
   Type N - for all walls above grade
   Type M - for all walls below grade, in contact with earth
3. f'm = 2000 psi - hollow units.
4. Concrete Masonry shall be laid in running (common) bond.
5. Provide mortar bed on webs between grouted cells and hollow cells.
6. Grout: ASTM C 476, 2,500 psi minimum 28-day compressive strength.
7. Concrete Masonry below finished floor shall be normal weight units and shall have all cells fully grouted. Concrete Masonry above finished floor shall be light weight units and shall be grouted as specified.
8. Grout all vertical cells and spaces containing reinforcing bars (as detailed) bond beams, and lintels.
9. Vertically reinforce walls as shown on the "CMU wall schedule". In addition, reinforce vertically at each corner, 2 cells at ends of walls, 2 cells each side of control joints and openings.
10. Horizontally provide continuous bond beam with 2 #5 minimum for 12" CMU; (1) #5 minimum for 8" or 6" CMU at floor/roof, 8'-0" above floors and top of wall, unless noted otherwise. Provide #5 corner bar for each horizontal bond beam bar at all wall corners.
11. Place reinforcement prior to grouting. Hold vertical reinforcement in position with rebar positioner wire bond hot dip galvanized 3401 for single bars and 3402 for double bars, or equivalent (min. 2 each lift).
12. Provide horizontal joint reinforcement as indicated on the drawings and specifications, at a minimum provide at 16"o.c.
13. Lap joint reinforcement a minimum of 6 in.
14. In no case shall shores and forms at lintels be removed until it is certain that the masonry has hardened sufficiently to carry its own weight and all other reasonable temporary loads that may be placed on it during construction.
15. Do not wet concrete masonry units, except saw cutting.
16. Do not use calcium chloride.
17. Do not use masonry cement.
18. Install temporary bracing at all CMU walls. Do not remove temporary bracing until wall is permanently braced by connection to the roof and floor structures.
19. Provide cleanout openings at bottom of cells to be grouted when grout pour exceeds 5'-0" in height. Remove all overhanging mortar or obstructions and any debris from inside such cell walls.

F. STEEL

1. Structural steel:
   a. Wide Flange sections ASTM A 992
   b. WT shapes ASTM A 992
   c. Channels, Angles and Plates ASTM A 36
   d. HSS (Round and Rectangle) ASTM A 500, Grade B
   e. Pipes (Standard, X and XX) ASTM A 501
2. Beam and column connections shall be as shown on plans.
3. Except where specifically detailed, single plate and/or eccentric connections shall not be used without supporting calculations from the fabricator showing adequate capacity. The calculations shall be made by a Structural Engineer registered in the State of Missouri.
4. High Strength Bolts (steel-to-steel connections): ASTM A 325N, snug tightened, bearing type.
5. Anchor bolts: ASTM F1554 Grade 36
6. Welded connections: AWS Standards and Specifications using E70xx electrodes, unless noted otherwise.
7. Ends of beams which have copes to the extent that allowable shear or bending stress of steel is exceeded shall have web plates of sufficient size welded to the beam to reduce such stresses.
8. Provide holes required for securing other work to structural steel framing, and for passage of other work through steel framing members, as shown on final shop drawings.
9. Do not flame cut holes or enlarge holes by burning.
10. Set structural frames accurately to lines and elevations indicated. Align and adjust various members forming apart of a complete frame or structure before permanently fastening. Perform necessary adjustments to compensate for discrepancies in elevations and alignment.
11. Provide temporary shoring and bracing members with connections of sufficient strength to bear imposed loads. Remove temporary members and connections when permanent members are in place and final connections are made. Provide temporary guy line to achieve proper alignment of structure as erection proceeds.
12. Clean bearing surfaces of bond-reducing materials and roughen to improve bond to surfaces. Clean bottom surface of base plates.
13. Grout plates are prohibited. Tighten anchor bolts after supported members have been positioned and plumbed. Do not remove wedges or shims, but if protruding, cut off flush with edge of base plate prior to packing with grout.
14. Nonshrink grout: CRD-621 Type A, premixed, nonmetallic, noncorrosive, nonstaining.
15. The physical and structural properties listed by Dietrich Industries, Inc. for light gage metal framing shall be considered the minimum permitted for all framing members. Any substitutions must be approved in writing ten (10) days prior to ordering materials, by the Architect and/or Engineer of Record.

G. METAL DECK

1. Roof deck: 1-1/2" galvanized wide rib deck with the following minimum properties:
   Minimum gage 20
   Moment of Inertia 0.201 in ^4
   Section Modulus 0.234 in ^3
2. Roof deck: 3" galvanized wide rib deck with the following properties:
   Minimum gage 20
   Moment of Inertia 0.848 in ^4
   Section Modulus 0.501 in ^3
3. Composite floor deck: 1-1/2" galvanized with the following minimum properties:
   Minimum gage 18
   moment of inertia 0.282 in ^4
   Section Modulus 0.315 in ^3
4. Roof deck shall be attached to supports to resist a net uplift of 30 PSF.
5. The roof deck has been designed as a diaphragm. Weld deck to all supports and around perimeter with 5/8" dia. puddle welds @ 12"o.c. and provide (3) #10 tek screw side laps between supports for 1 1/2" deck.
   Weld deck to all supports and around perimeter with 5/8" dia. welds @ 8"o.c. and provide (3) #10 tek screw side laps between supports for 3" deck.
6. Provide 2-1/2" x 2-1/2" x 1/4" angles as required to support deck at columns, ends of beams, around openings, etc. Except as noted otherwise.

F. POST-INSTALLED ANCHORS

1. Except where indicated on the drawings, post-installed anchors shall consist of the following anchor types:
   a. Anchorage to concrete and grouted cmu walls.
      i. Adhesive anchors shall have been tested in accordance with ACI 355.4 and/or ICC-ES AC308 for cracked concrete and seismic applications. Adhesive anchors shall be installed by a certified adhesive anchor installer Where designated on the contract documents. Pre-approved products include:
         1. Hilti HIT-HY 200 SAFE SET System with Hilti HIT-Z Rod per ICC ESR-3187.
         2. Hilti HIT-HY 200 SAFE SET System with Hilti hollow drill bit system with HAS-E threaded rod per ICC ESR-3187
         3. Hilti HIT-HY 200 SAFE SET System without Hilti hollow drill bit system with HAS-E threaded rod per ICC ESR-3187. Follow manufacturer recommended hole cleaning practice for this option.
         4. Simpson Strong-Tie SET-XP adhesive anchoring system per ICC ESR-2508.
      ii. Screw anchors shall have been tested in accordance with ACI 355.2 and/or ICC-ES AC193 for cracked concrete and seismic applications. Pre-approved products include:
         1. Hilti KWIK HUS EZ screw anchors per ICC ESR-3027. To be used in concrete and grouted cmu walls. (For interior applications only, not approved for exterior application)
   b. Anchorage to Masonry Hollow Cells and Brick
      i Adhesive Anchors to Use:
         1. Hilti Hit-HY 70 Masonry Adhesive anchoring system per ICC ESR-3342. Steel Anchor element shall be Hilti HAS-E continuously threaded Rod. The appropriate size screen tube shall be used per adhesive manufacturer's recommendation.
         2. Simpson Stong-Tie AT Masonry Adhesive anchoring systerm per ICC ESR-3342. Steel Anchor element shall be continuously threaded Rod. The appropriate size stainless steel screen tube shall be used per adhesive manufacturer's recommendation.
2. Install anchors per the manufacturer instructions, as included in the anchor packaging.
3. Drill holes for wedge-type expansion anchors using a bit incapable of cutting steel. Do not cut existing concrete reinforcing steel. If, while drilling, reinforcing steel is encountered, notify the Structural Engineer for approval of new location. Clean and patch the abandoned hole with grout. Always follow manufacturer's written instructions.
4. Where epoxy anchors are indicated to be installed at "reduced installation torque" on these drawings, follow above referenced ICC ESR reports to determine required installation torque.
5. Anchor capacity used in design shall be based on the technical data published by Hilti, Simpson, or such other method as approved by the Structural Engineer of Record. Substitution requests for alternate products must be approved in writing by the Structural Engineer of record prior to use. contractor shall provide calculations demonstrating that the substituted product is capable of achieving the performance values of the specified product. Substitutions will be evaluated by their having an ICC ESR showing compliance with the relevant building code for seismic uses, load resistance, installation category, and availability of comprehensive installation instructions. Adhesive anchor evaluation will also consider creep, in-service temperature and installation temperature.
6. The contractor shall arrange for an anchor manufacturer's representative to provide onsite installation training for all of their anchoring products specified. The Structural Engineer of Record must receive documented confirmation that all of the contractor's personnel who install anchors are trained prior to the commencement of installing anchors.
7. Anchor capacity is dependent upon spacing between adjacent anchors and proximity of anchors to edge of concrete. Install anchors in accordance with spacing and edge clearances indicated on the drawings.
8. If a specific epoxy adhesive anchoring system is noted in a particular detail of this constructino drawings, other alternative product options listed above in item 1 shall not apply.

G. LIGHT GAUGE STRUCTURAL STEEL FRAMING

1. The contractor is responsible for the design of all structural light gauge steel framing and connections between them and the other structural members. Submit design calculations and drawings, sealed by an engineer licensed in the state of the project location, for review by the architect/ structural engineer of record.

H. GLAZING SYSTEM

1. The contractor is responsible for the design of all glazing system and connections between them and the other structural members.
   Submit design calculation sand drawings, sealed by an engineer licensed in the state state of the project location, for review by the architect/ structural engineer of record.

H. CONSTRUCTION

1. Provide adequate shoring or bracing during construction to resist forces such as wind and unbalanced loading due to construction.
2. Protect existing building as required until all new construction is complete.
3. Verify all dimensions of or to existing construction. Any variation from that shown on plans shall be brought to the attention of the Architect/Engineer before proceeding.
4. Haul off and properly dispose of all material demolished from the site unless specifically directed otherwise by the Owner.
5. Field verify the location and depth (or height) of all utilities prior to beginning construction in order to provide adequate clearances and to insure noninterruption of service.
6. Before core drilling any holes, locate the reinforcing steel in the existing concrete with R-meter. Relocate the hole to avoid cutting any rebars. Do not drill holes through existing rebars unless acceptable to the Structural Engineer. Do not overcut any holes.
7. Cut openings in existing concrete slabs and walls with a power saw to prevent vibration and damage of surrounding structure.
8. Core drill corners of openings in existing concrete slabs and walls prior to saw cutting. Size of core shall be sufficient to prevent saw overrun.
9. Contact engineer for details to fix damaged/missing anchorbolts, misplaced concrete reinforcing and damaged/missing masonry dowels.
10. During welding or any other construction activity that generates sparks or intense heat, the contractor shall provide adequate fire protection to the existing structure and contents. as a minimum:
    - remove combustible materials from areas of welding and sparks.
    - provide fire proof blankets and shields to contain sparks where combustible materials cannot be removed.
    - provide a fire safety observer with a fire extinguisher on both the roof and below the roof during welding near the roof structure.

ABBREVIATION LEGEND

ABBR	DEFINITION	ABBR	DEFINITION
AB	ANCHOR BOLT	TO	TOP OF
ACI	AMERICAN CONCRETE INSTITUTE	TOC	TOP OF CONCRETE
AFF	ABOVE FINISHED FLOOR	TOF	TOP OF FOOTING
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	TOGB	TOP OF GRADE BEAM
AISI	AMERICAN IRON AND STEEL INSTITUTE	TOM	TOP OF MASONRY
ARCH	ARCHITECTURAL	TOP	TOP OF PAVING
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	TOS	TOP OF STEEL
AWS	AMERICAN WELDING SOCIETY	TRANS	TRANSVERSE
BB	BOND BEAM	TYP	TYPICAL
BL	BLOCK LINTEL	UNO	UNLESS NOTED OTHERWISE
BO	BOTTOM OF	VERT	VERTICAL
BOS	BOTTOM OF STEEL	W	WIDTH
BRG	BEARING	WP	WORK POINT
CJ	CONTRACTION JOINT		
CL	CENTER LINE		
CLR	CLEAR		
CMU	CONCRETE MASONRY UNIT		
COL	COLUMN		
CONC	CONCRETE		
CONN	CONNECTION		
CONST	CONSTRUCTION		
CONT	CONTINUOUS		
DIA	DIAMETER		
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM		
EJ	EXPANSION JOINT		
EL	ELEVATION		
EQ	EQUAL		
EW	EACH WAY		
FDN	FOUNDATION		
FF	FINISHED FLOOR		
FS	FAR SIDE		
FTG	FOOTING		
GA	GAGE		
GC	GENERAL CONTRACTOR		
GYP BD	GYPSUM BOARD		
HORIZ	HORIZONTAL		
HSA	HEADED STUD ANCHOR		
INFO	INFORMATION		
ISO	ISOLATION		
JBE	JOIST BEARING ELEVATION		
JG	JOIST GIRDER		
JST	JOIST		
JT	JOINT		
KSI	KIPS PER SQUARE INCH		
LB	POUNDS		
LLH	LONG LEG HORIZONTAL		
LLV	LONG LEG VERTICAL		
LONG	LONGITUDINAL		
MAX	MAXIMUM		
MECH	MECHANICAL		
MEP	MECHANICAL ELECTRICAL PLUMBING		
MFR	MANUFACTURER		
MIN	MINIMUM		
MISC	MISCELLANEOUS		
MO	MASONRY OPENING		
MTL	METAL		
NO	NUMBER		
NS	NEAR SIDE		
NTS	NOT TO SCALE		
OC	ON CENTER		
OD	OUTSIDE DIAMETER		
OH	OPPOSITE HAND		
OSL	OUTSTANDING LEG		
PAF	POWDER ACTUATED FASTENER		
PCF	POUNDS PER CUBIC FOOT		
PL	PLATE		
PLF	POUNDS PER LINEAR FOOT		
PMEJ	PREMOLDED EXPANSION JOINT		
PSF	POUNDS PER SQUARE FOOT		
PSI	POUNDS PER SQUARE INCH		
QTY	QUANTITY		
REF	REFER TO		
REINF	REINFORCING		
REQD	REQUIRED		
REV	REVERSE		
RO	ROUGH OPENING		
RTU	ROOF TOP UNIT		
SCHED	SCHEDULE		
SDI	STEEL DECK INSTITUTE		
SIM	SIMILAR		
SJI	STEEL JOIST INSTITUTE		
SOG	SLAB ON GRADE		
SPECS	SPECIFICATIONS		
STRUC	STRUCTURAL		
T/CMU	TOP OF CMU WALL		
T/BB	TOP OF BOND BEAM		
T&B	TOP AND BOTTOM		
THK	THICKNESS		

SPECIAL INSPECTION AND TESTING

1. The following tests and inspection shall be performed by an independent inspection agency employed by the owner and approved by the structural engineer and the building official Test and inspection reports shall be submitted to the owner, architect, structural engineer, and building official. Special inspection shall conform to Chapter 17 of the 2018 International Building Code.

Classification of Work Requiring Special Inspections

- Excavation and Filling
- Verification of Soils
- Placement of Reinforcing Steel
- Placement of Reinforced Concrete
- Testing of Reinforced Concrete
- Bolts Installed in Concrete
- Structural Masonry
- Structural Welding
- High Strength Bolting
- Steel Frame Inspection
- Seismic Resistance
- Inspection of Structural Steel Fabricator
- Sprayed Fine-Resistant Materials
- Fire-Resistant Penetrations and Joints

REQUIRED SPECIAL INSPECTIONS AND TEST OF SOILS

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	-	X
2. Verify excavations are extended to proper depth and have reached proper material.	-	X
3. Perform classification and testing of fill materials.	-	X
4. Verify use of proper materials, densities and lift thickness during placement and compaction of compacted fill.	X	-
5. Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly.	-	X
6. Verify materials below drilled piers are adequate to achieve the design bearing capacity.	-	X
7. Drilled Piers	-	X

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REQUIRED VERIFICATION AND INSPECTION OF CONCRETE STRUCTURE

TYPE	CONTINUOUS	PERIODIC
1. Inspect reinforcement, including prestressing tendons, and verify placement.	-	X
2. Inspect anchors cast in concrete.	-	X
3. Inspect anchors post-installed in hardened concrete members. a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads. b. Mechanical anchors and adhesive anchors not defined in 3.a.	X	-
4. Verify use of required design mix.	-	X
5. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X	-
6. Inspect concrete and shotcrete placement for proper application techniques.	X	-
7. Verify maintenance of specified curing temperature and techniques.	X	-

MINIMUM SPECIAL INSPECTION REQUIREMENTS OF STRUCTURAL CMU WALLS LEVEL C QUALITY ASSURANCE

MINIMUM SPECIAL INSPECTION		
Inspection Task	Frequency	
	Continuous	Periodic
1. As masonry construction begins, verify that the following are in compliance:		
a. Proportions of site-prepared mortar and grout		X
b. Grade, type, and size of reinforcement connectors, anchor bolts		X
c. Sample panel construction	X	
2. Prior to grouting, verify that the following are in compliance:		
a. Grout space	X	
b. Placement of reinforcement, connectors, and anchor bolts	X	
c. Proportions of site-prepared grout		X
3. Verify compliance of the following during construction:		
a. Materials and procedures with the approved submittals		X
b. Placement of masonry units and mortar joint construction		X
c. Placement of grout	X	
d. Size and location of structural members		X
e. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction	X	
f. Welding of reinforcement	X	
g. Preparation, construction, and protection of masonry during cold weather (temperature below 40ºF (4.4ºC)) or hot weather (temperature above 90ºF (32.2ºC))	X	
4. Observe preparation of grout specimens, mortar specimens, and/or prisms.	X	

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

VERIFICATON AND INSPECTION	Continuous	Periodic
1. Material verification of high-strength bolts, nuts, and washers:		
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	-	X
b. Manufacturer's certificate of compliance required.	-	X
2. Inspection of high-strength bolting:		
a. Snug-tight joints	-	X
b. Pretensioned and slip-critical joints using turn-of-nut with matchmarking, twist-off bolt or direct tension indicator methods of installation.	-	X
c. Pretensioned and slip-critical joints using turn-of-nut without matchmaking or calibrated wrench methods of installation.	X	-
3. Material verification of structural steel and cold-formed steel deck:		
a. For structural steel, identification markings to conform to AISC 360.-	-	X
b. For other steel, identification markings to conform to ASTM standard specified in the approved construction documents.	-	X
c. Manufacturer's certified test reports.	-	X
4. Material verification of weld filler materials:		
a. Identification markings to conform to AWS specification in the construction documents.	-	X
b. Manufacturer's certificate of compliance required.	-	X
5. Inspection of welding:		
a. Structural steel and cold-formed steel deck:		
1. Complete and partial joint penetration groove welds.	X	-
2. Multi-pass fillet welds	X	-
3. Single-pass fillet welds > 5/16"	X	-
4. Plug and slot welds.	X	-
5. Single-pass fillet welds < 5/16"	-	X
6. Floor and roof deck welds.	-	X
6. Inspection of steel frame joint details for compliance.		
a. Details such as bracing and stiffening.	-	X
b. Member locations.	-	X
c. Application of joint details at each connection.	-	X

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
1. Material verification of cold formed steel deck:		
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	-	X
b. Manufacturer's certified test reports.	-	X
2. Inspection of welding:		
a. Cold formed steel deck:		
(1) Floor and roof deck welds.	-	X
b. Reinforcing steel:		
(1) Verification of weldability of reinforcing steel other than ASTM A706.	-	X
(2) Reinforcing steel resisting flexural and axial forces in immediate and special moment frames, and boundary elements special structural walls of concrete and shear reinforcement.	X	-
(3) Shear reinforcement.	X	-
(4) Other reinforcing steel.	X	-
3. Tectum Deck Attachment to Structure:		
a. Welding	-	X
b. Bolting/anchoring	-	X

REQUIRED VERIFICATION AND INSPECTION OF SPRAYED FIRE-RESISTANT MATERIALS AND FIRE-RESISTANT PENETRATIONS AND JOINT

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
1. Condition of substrates	-	X
2. Thickness of application	-	X
3. Density in pounds per cubic foot	-	X
4. Bond strength adhesion/cohesion	-	X
5. Condition of finished application	-	X
6. Penetration firestop's	-	X
7. Fire-resistant joint system	-	X
8. Floor to wall intersections	-	X

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License - Missouri PE #023862
02/10/2023

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CONSTRUCTION DOCUMENTS

Saint Luke's EAST HOSPITAL
ASC EXPANSION & RENOVATION
100 NE Saint Luke's Blvd
Lee's Summit, MO 64086

Date	02/07/2023
Job Number	3-21037
Drawn By	GEB
Checked By	KGS

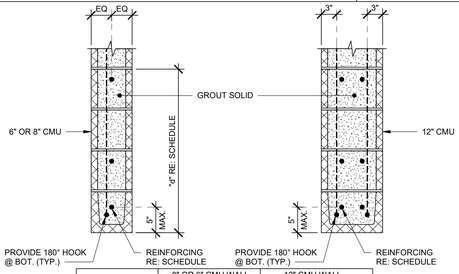
Revision

Number	Date	Description
2	02-10-23	ADDENDUM #2

GRADING, FOOTING, AND FOUNDATION PACKAGE

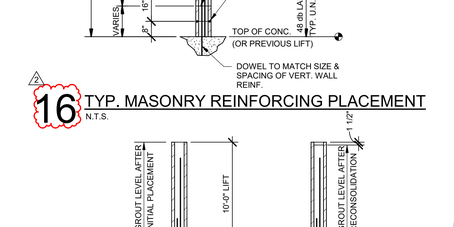
S0.0

GENERAL NOTES



OPENING = L	8" OR 6" CMU WALL		12" CMU WALL	
	DEPTH OF BB - "d"	HORIZ. REINF.	DEPTH OF BB - "d"	HORIZ. REINF.
L ≤ 2'-0"	8"	1-#6	8"	2-#6 TOP & BOT.
2'-0" < L ≤ 4'-0"	16"	1-#6	16"	2-#6 TOP & BOT.
4'-0" < L ≤ 5'-4"	24"	1-#6	24"	2-#6 TOP & BOT.
5'-5" < L ≤ 7'-8"	32"	1-#6 TOP 2-#6 BOT.	32"	2-#6 TOP & BOT.
7'-9" < L ≤ 12'-0"	40"	1-#6 TOP 2-#6 BOT.	40"	2-#6 TOP & BOT.

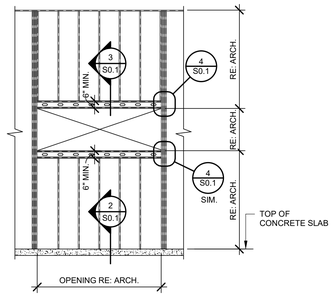
19 BOND BEAM ABOVE OPENING
N.T.S.



NOTE:
ALL VERTICAL BARS ARE FULL WALL HEIGHT.

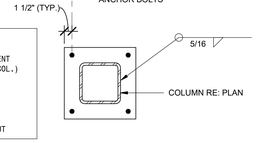
SCHECULE FOR VERTICAL REINFORCING @ JAMB		
WIDTH OF OPENING	NO. OF VERT. CELLS TO BE REINF. @ EA. JAMB	NO. OF BARS PER CELL
≤4'-0"	ONE	ONE FOR 6" AND 8" CMU
4'-0" TO 8'-0"	TWO	TWO FOR 12" CMU NOTE: BAR SIZES SHALL MATCH WALL REINF. RE: SCHEDULE)
8'-0" TO 12'-0"	THREE	
12'-0" TO 16'-0"	FOUR	

18 TYP. MASONRY REINF. @ OPENING
N.T.S.



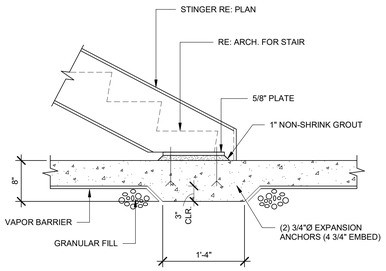
14 TYP. METAL STUD FRAMING ELELEVATON
N.T.S.

COLUMN SIZE	BASE PLATE	ANCHOR BOLTS
HSS8x8	1"x1'-2"x1'-2"	(4) 3/4"Ø
HSS6x6	3/4"x1'-0"x1'-0"	(4) 3/4"Ø

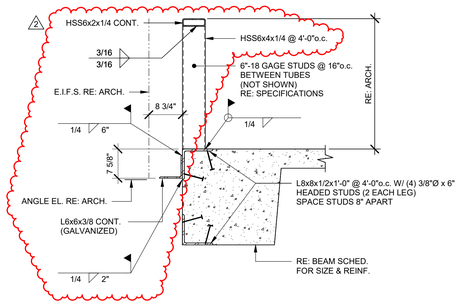


NOTES:
1. ALL ANCHOR BOLTS SHALL F1554 (GR 36), 12" EMBEDMENT (9" EMBEDMENT FOR HSS6x6 COL.) W/ 1/4" WASHER AND NUT TACK WELDED TO BOLT.
2. ALL ANCHOR BOLTS HOLES SHALL BE 1 1/16"Ø
3. SET ALL BASE PLATE ON A MIN. OF 1" NON-SHRINK GROUT

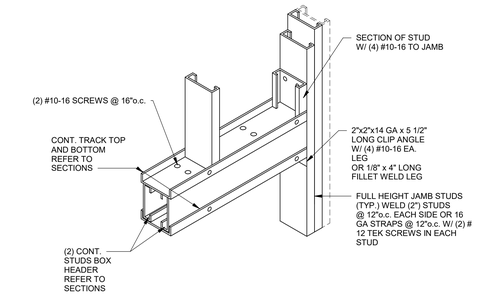
13 STEEL COLUMN SCHEDULE
N.T.S.



9 THICKEN S.O.G. UNDER STAIR
N.T.S.

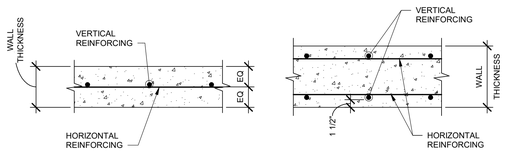


8 TYPICAL FRAMING AT PARAPET
N.T.S.



4 TYPICAL HEADER - JAMB DETAIL
N.T.S.

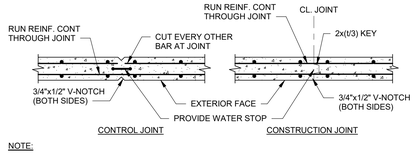
WALL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING	DETAIL
8"	#5 @ 12"o.c. (CENTERED)	#4 @ 12"o.c. (CENTERED)	TYPE 1
12"	#5 @ 12"o.c. EACH FACE	#4 @ 12"o.c. EACH FACE	TYPE 2



TYPE 1 - PLAN DETAIL **TYPE 2- PLAN DETAIL**

NOTE: USE REINFORCING SHOWN ON SCHEDULE IF NOT SPECIFIED ON WALL SECTIONS

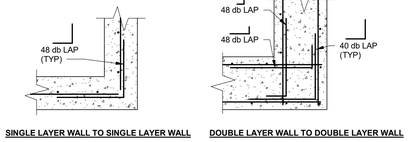
7 CONCRETE WALL REINFORCING SCHEDULE
N.T.S.



NOTE:
1. PROVIDE CONSTRUCTION JOINT @ 50'-0"o.c. (MAX.) AND CONTROL JOINT AT 25'-0" o.c. (MAX.). INSTALL CONTROL JOINT A MINIMUM OF 8'-0" AWAY FROM COLUMNS.
2. DO NOT PROVIDE CONTROL JOINT IN SHEAR WALLS (STAIRS/ELEVATORS)

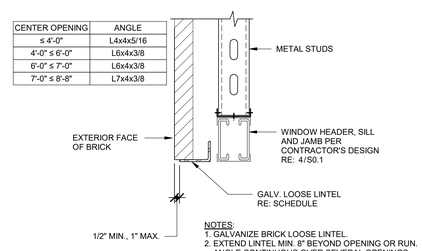
6 TYPICAL WALL JOINTS
N.T.S.

INTERSECTING WALL REINFORCING IS IN ADDITION TO ALL OTHER WALL REINFORCING. RE: PLAN AND WALL SECTIONS FOR ACTUAL LOCATION AND SIZE OF WALL REINFORCING. WALL REINFORCING SHOWN IS ILLUSTRATIVE ONLY.



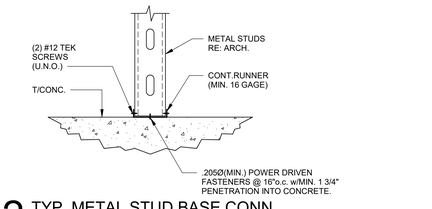
SINGLE LAYER WALL TO SINGLE LAYER WALL **DOUBLE LAYER WALL TO DOUBLE LAYER WALL**

5 TYPICAL INTERSECTING WALL REINF.
N.T.S.

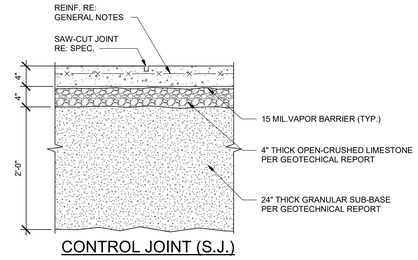


NOTES:
1. GALVANIZE BRICK LOOSE LINTEL.
2. EXTEND LINTEL MIN. 8" BEYOND OPENING OR RUN. ANGLE CONTINUOUS OVER SEVERAL OPENINGS.
3. PLACE LONG LEG OF THE ANGLE VERTICAL.

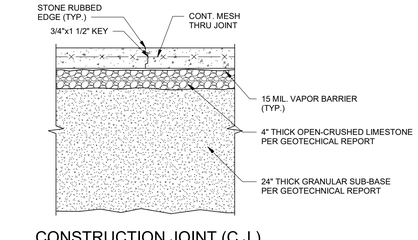
3 BRICK LINTEL SCHEDULE (LOOSE LINTEL)
N.T.S.



2 TYP. METAL STUD BASE CONN.
N.T.S.



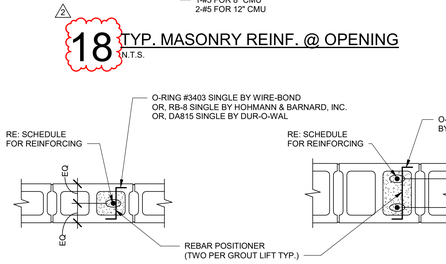
CONTROL JOINT (S.J.)



CONSTRUCTION JOINT (C.J.)

PROVIDE C.J. @ 60'-0"± AND S.J. @ 15'-0"o.c.± CONTRACTOR SHALL SUBMIT DRAWINGS SHOWING LOCATON OF C.J. AND S.J. FOR REVIEW.

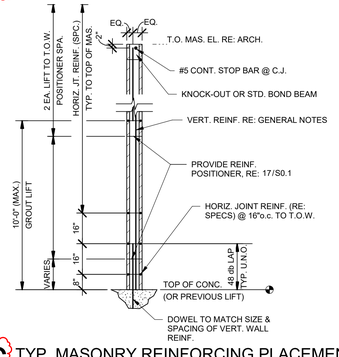
1 TYP. SLAB-ON-GRADE DETAILS
N.T.S.



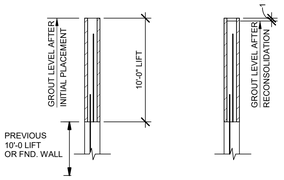
8" CMU WALL **12" CMU WALL**

NOTE: REFER TO ARCHITECTURAL DRAWING FOR CONTROL JOINT INSERTS

17 TYP. WALL REINFORCING DETAIL
N.T.S.



16 TYP. MASONRY REINFORCING PLACEMENT
N.T.S.



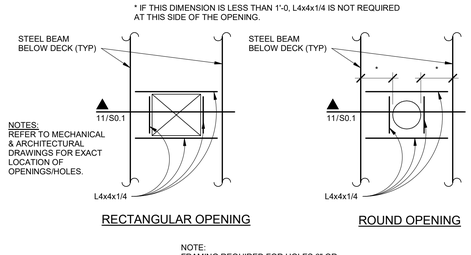
PLACEMENT

1. PLACE GROUT CONTINUOUSLY. DO NOT INTERRUPT GROUTING PROCESS FOR MORE THAN ONE HOUR.
2. VIBRATE GROUT DURING PLACEMENT BY INSERTING VIBRATOR TO BOTTOM OF LIFT & THEN PULLING OUT (2 TIMES PER CELL)
3. LEAVE GROUT FLUSH WITH TOP OF BLOCK.

RECONSOLIDATION

1. RECONSOLIDATE EACH CELL 30 MIN.± AFTER INITIAL PLACEMENT OF GROUT IN THE CELL. RECONSOLIDATE BY INSERTING VIBRATOR 24" INTO LIFT AND PULLING OUT (2 TIMES PER CELL).
2. ADJUST GROUT LEVEL AS REQUIRED AFTER VIBRATING TO TERMINATE GROUT 1 1/2" MIN BELOW TOP OF LIFT.

15 MASONRY GROUTING REQUIREMENTS
N.T.S.

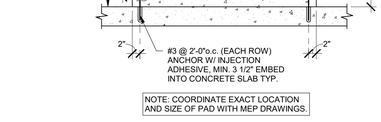


NOTES:
REFER TO MECHANICAL & ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF OPENINGS/HOLES.

RECTANGULAR OPENING ROUND OPENING

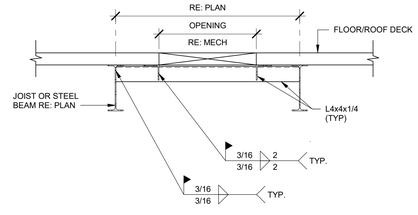
NOTE:
FRAMING REQUIRED FOR HOLES 6" OR LARGER THROUGH ROOF DECK.

10 TYP. ROOF PENETRATION FRAMING PLAN
N.T.S.

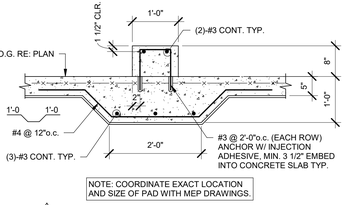


NOTE: COORDINATE EXACT LOCATION AND SIZE OF PAD WITH MEP DRAWINGS.

12 HOUSEKEEPING PAD DETAIL
N.T.S.



11 FRAMING AROUND THE OPENING
N.T.S.



NOTE: COORDINATE EXACT LOCATION AND SIZE OF PAD WITH MEP DRAWINGS.

20 HOUSEKEEPING CURB
3/4" = 1'-0"

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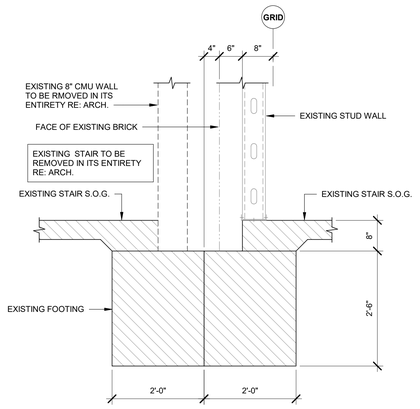
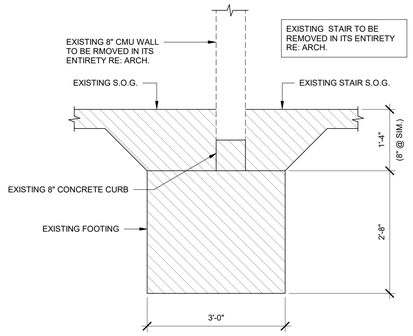
GRADING, FOOTING, AND FOUNDATION PACKAGE

S0.1

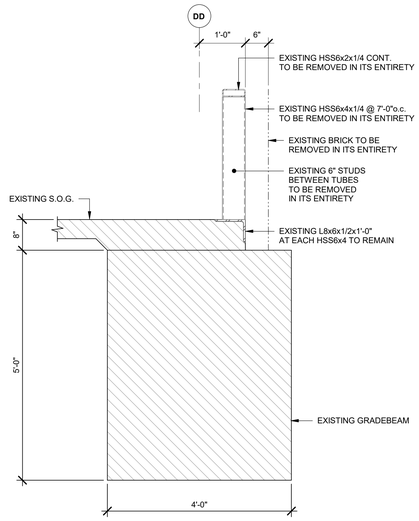
TYPICAL DETAILS



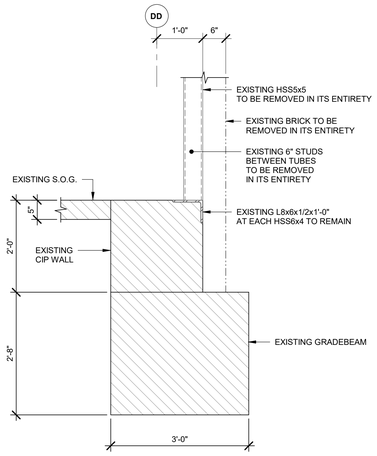
5 DEMO AT EXISTING FOUNDATION
3/4" = 1'-0"



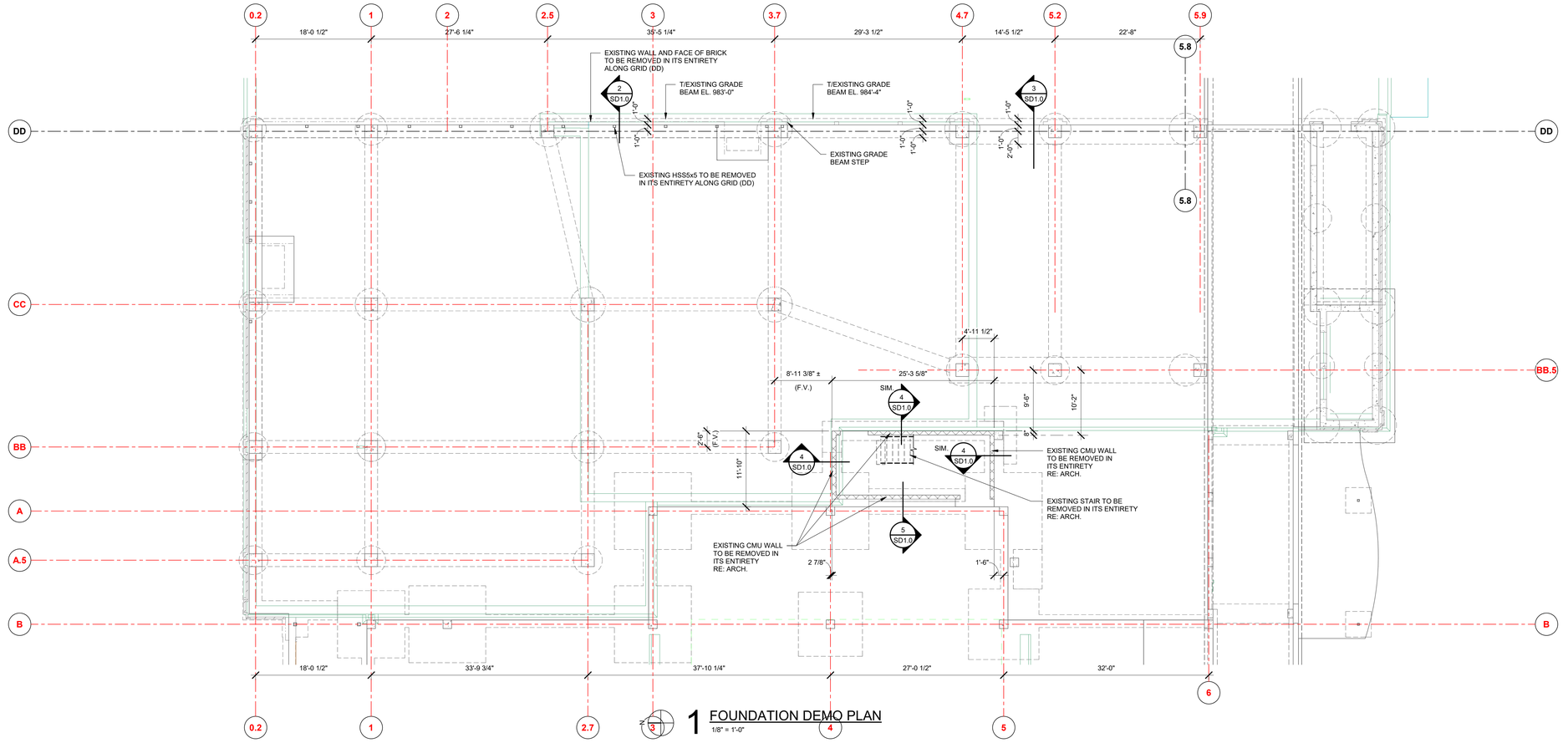
4 DEMO AT EXISTING FOUNDATION
3/4" = 1'-0"



3 SECTION AT EXISTING FOUNDATION
3/4" = 1'-0"



2 DEMO AT EXISTING FOUNDATION
3/4" = 1'-0"



1 FOUNDATION DEMO PLAN
1/8" = 1'-0"

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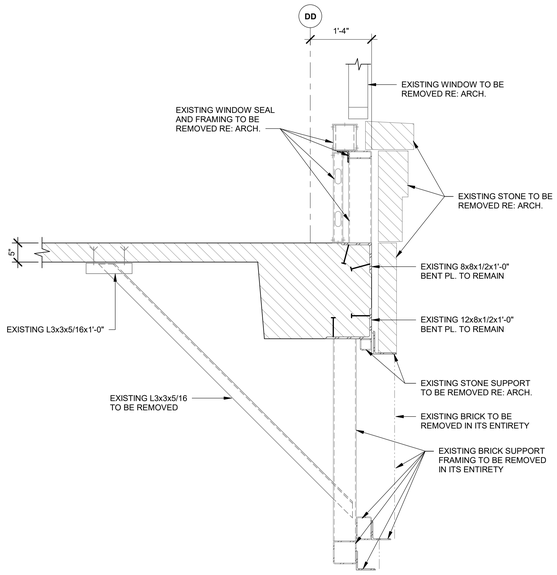
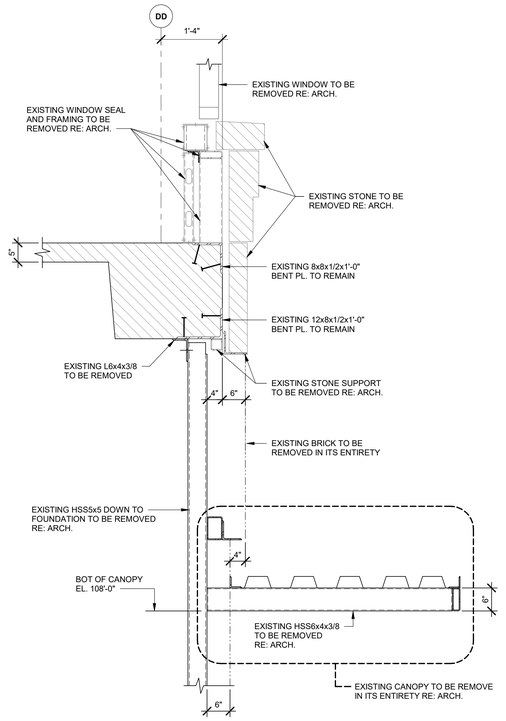
SD1.0

FOUNDATION DEMO PLAN

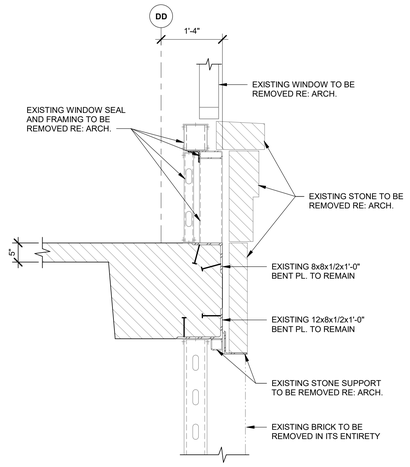
2/10/2023 5:02:15 PM C:\Users\gbriscoe\Documents\XX-2022011-R21_djfoxx.rvt



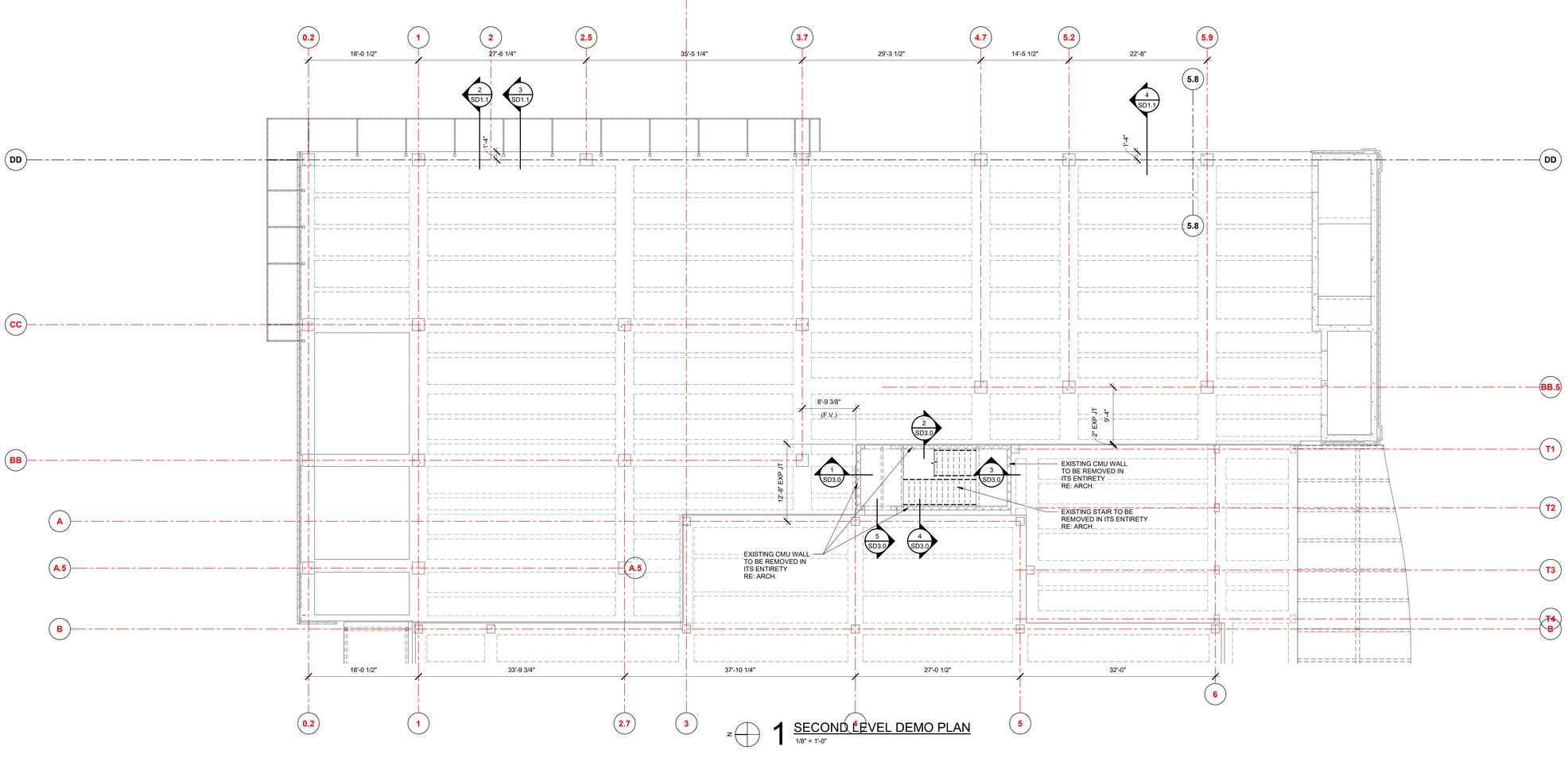
4 DEMO SECTION AT SECOND FLOOR
3/4" = 1'-0"



3 DEMO SECTION AT SECOND FLOOR
3/4" = 1'-0"



2 DEMO SECTION AT SECOND FLOOR
3/4" = 1'-0"



1 SECOND LEVEL DEMO PLAN
1/8" = 1'-0"

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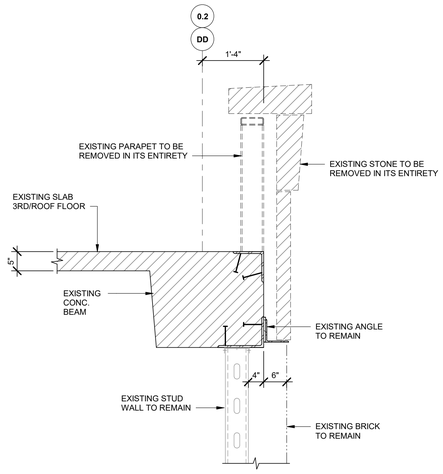
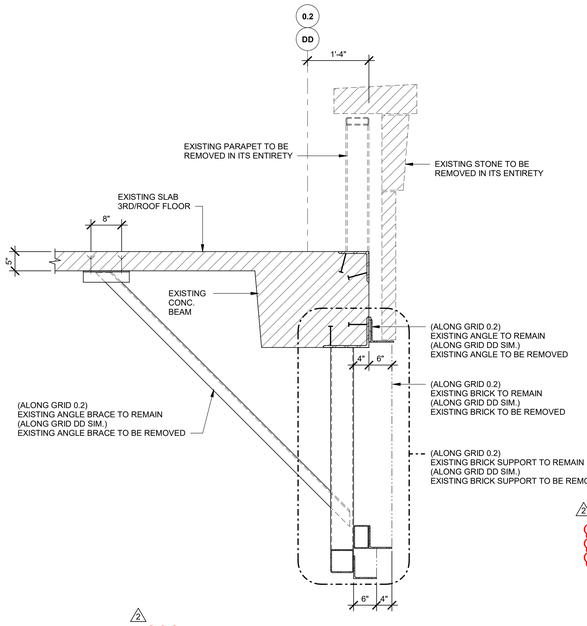
SD1.1

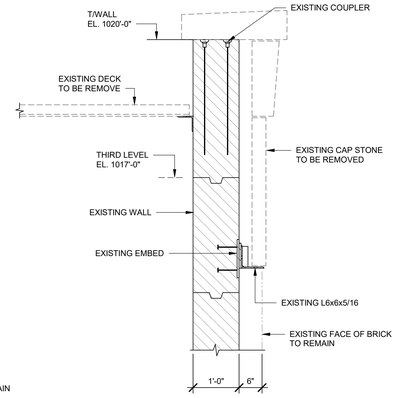
SECOND LEVEL DEMO PLAN



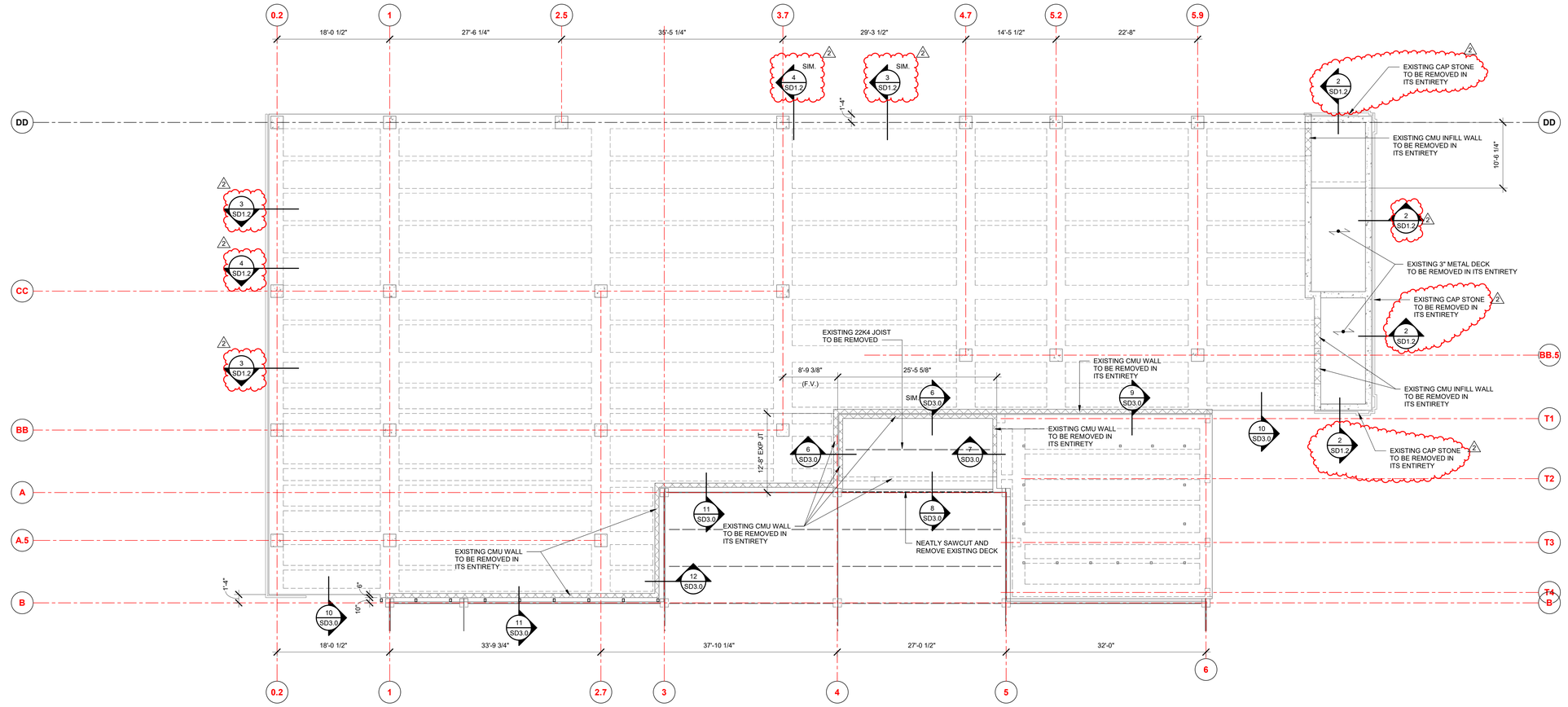
2 4 SECTION AT ROOF
3/4" = 1'-0"



2 3 DEMO AT EXISTING 3RD/ROOF
3/4" = 1'-0"



2 2 DEMO AT EXISTING STAIRWELL/ELEVATOR
3/4" = 1'-0"



N 1 THIRD LEVEL DEMO PLAN
1/8" = 1'-0"

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CONSTRUCTION DOCUMENTS

Saint Luke's
EAST HOSPITAL
ASC EXPANSION & RENOVATION
100 NE Saint Luke's Blvd
Lee's Summit, MO 64086

Date	02/07/2023
Job Number	3-21037
Drawn By	GEB
Checked By	KGS

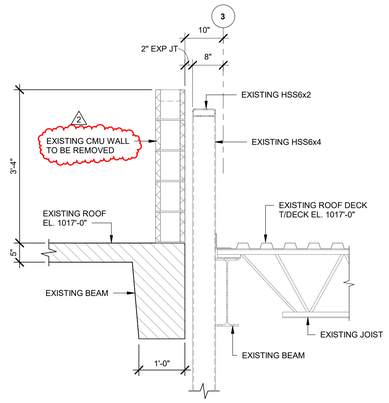
Revision

Number	Date	Description
2	02-10-23	ADDENDUM #2

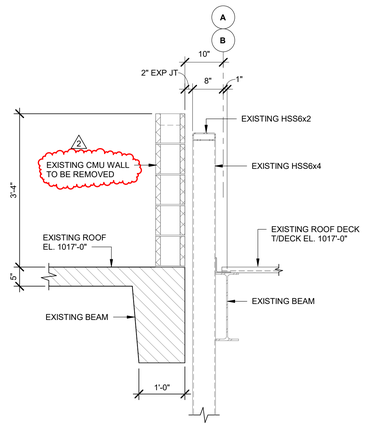
GRADING, FOOTING, AND FOUNDATION PACKAGE

SD1.2

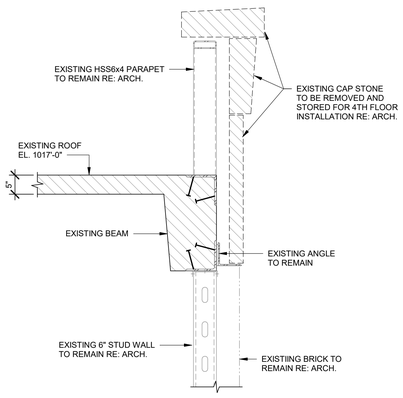
THIRD LEVEL DEMO PLAN



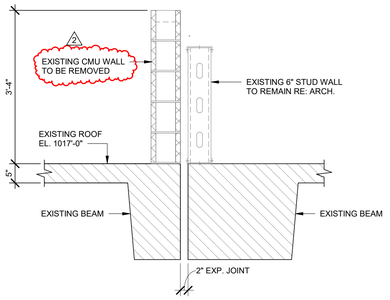
12 DEMO AT EXISTING ROOF
3/4" = 1'-0"



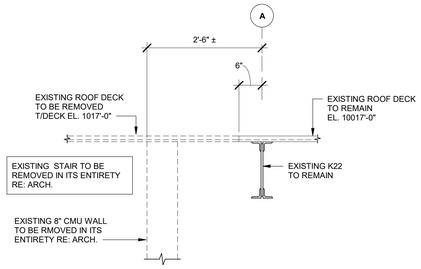
11 DEMO AT EXISTING ROOF
3/4" = 1'-0"



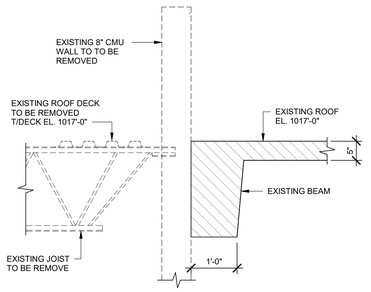
10 DEMO AT EXISTNG ROOF
3/4" = 1'-0"



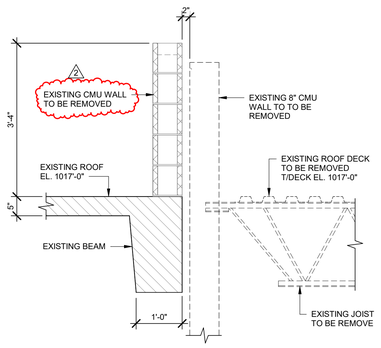
9 DEMO AT EXISTING STAIRWELL
3/4" = 1'-0"



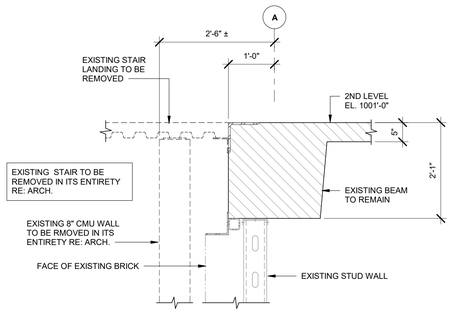
8 DEMO AT EXISTING STAIRWELL
3/4" = 1'-0"



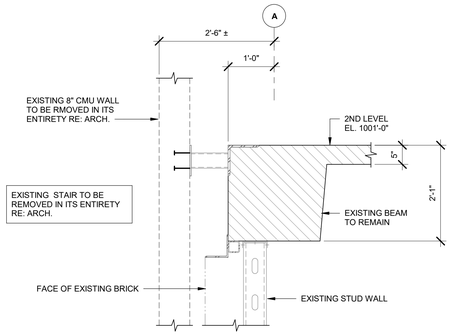
7 DEMO AT EXISTING STAIRWELL
3/4" = 1'-0"



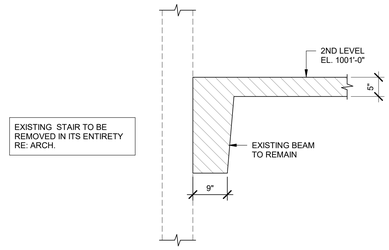
6 DEMO AT EXISTING STAIRWELL
3/4" = 1'-0"



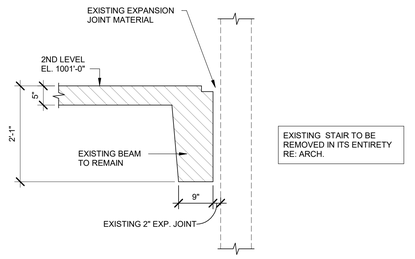
5 DEMO AT EXISTING STAIRWELL
3/4" = 1'-0"



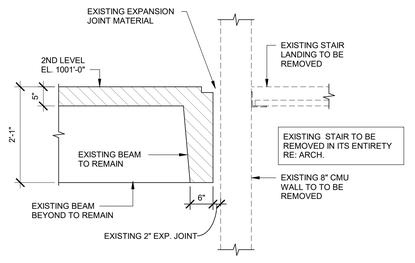
4 DEMO AT EXISTING STAIRWELL
3/4" = 1'-0"



3 DEMO AT EXISTING STAIRWELL
3/4" = 1'-0"



2 DEMO AT EXISTING STAIRWELL
3/4" = 1'-0"



1 DEMO AT EXISTING STAIRWELL
3/4" = 1'-0"

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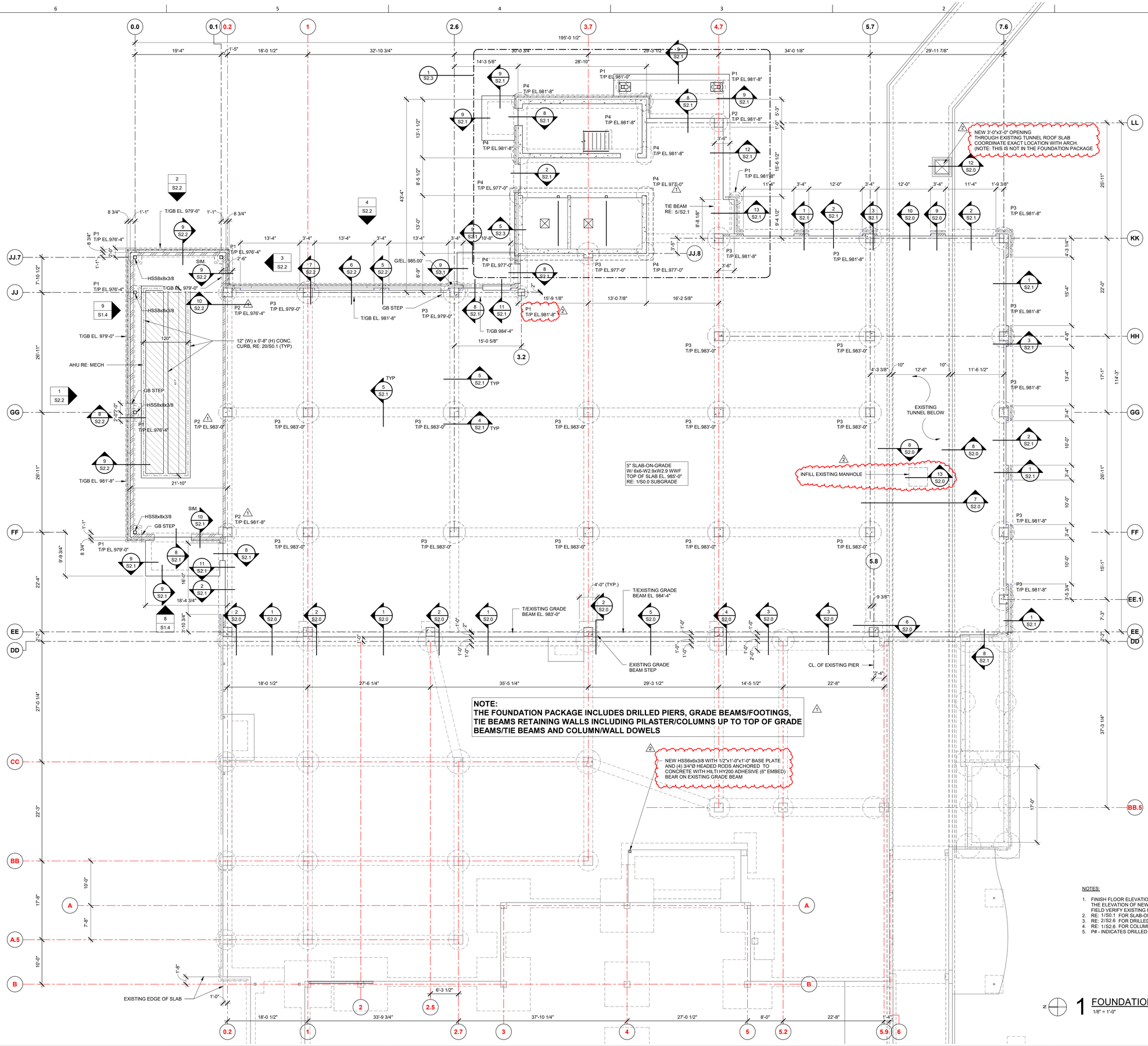
2	02-10-23	ADDENDUM #2

GRADING, FOOTING, AND FOUNDATION PACKAGE

SD3.0

DEMO FRAMING DETAILS



NOTES:

1. FINISH FLOOR ELEVATION 985'-0" UNLESS NOTED OTHERWISE. THE ELEVATION OF NEW FLOOR SHALL MATCH EXISTING FLOOR ELEVATION. FIELD VERIFY EXISTING FLOOR ELEVATION.
2. RE: 1/S0.1 FOR SLAB-ON-GRADE REINFORCING
3. RE: 2/S2.6 FOR DRILLED PIER REINF.
4. RE: 1/S2.6 FOR COLUMN SCHEDULE
5. P# - INDICATES DRILLED PIER DESIGNATION RE: 2/S2.6 FOR SCHEDULE

N

1 FOUNDATION AND FIRST LEVEL PLAN

1/8" = 1'-0"

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Saint Luke's EAST HOSPITAL

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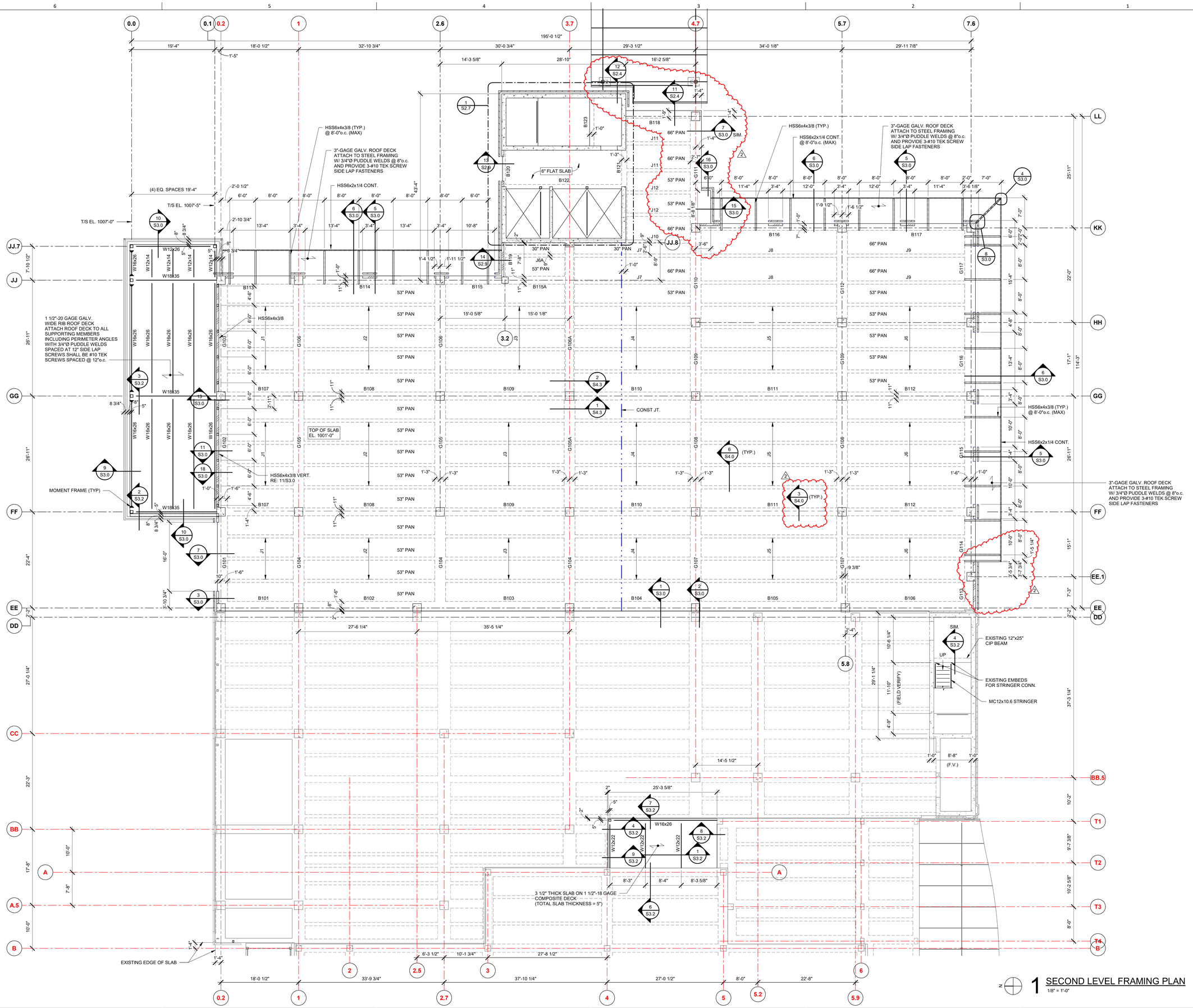
1	01-20-23	ADDENDUM #1
2	02-10-23	ADDENDUM #2

GRADING, FOOTING, AND FOUNDATION PACKAGE

S1.0

FOUNDATION AND FIRST LEVEL PLAN



1 SECOND LEVEL FRAMING PLAN
1/8" = 1'-0"

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GRADING, FOOTING, AND FOUNDATION PACKAGE

S1.1

SECOND LEVEL FRAMING PLAN

NOTE:
EXISTING ROOF (3RD LEVEL) FRAMING WAS DESIGNED TO SUPPORT SHORING LOADS AND FORMWORK FROM FOURTH LEVEL. HOWEVER THE SHORING POSTS MUST BE PLACE DIRECTLY ON THE JOISTS, BEAMS AND GIRDERS.
SHORING POSTS SHALL NOT BE PLACED ON THE SLAB

1 1/2"-20 GAGE GALV. WIDE RIB ROOF DECK ATTACH ROOF DECK TO ALL SUPPORTING MEMBERS INCLUDING PERIMETER ANGLES WITH 3/4"Ø PUDDLE WELDS SPACED AT 12" SIDE LAP SCREWS SHALL BE #10 TEK SCREWS SPACED @ 12"o.c.

NEW CONCRETE STAIR

EXISTING EDGE OF SLAB

CONST JT.

AHU UNIT FRAMING
RE: SHEET S1.3

1 THIRD LEVEL FRAMING PLAN
1/8" = 1'-0"

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GRADING, FOOTING, AND FOUNDATION PACKAGE

S1.2

THIRD LEVEL FRAMING PLAN

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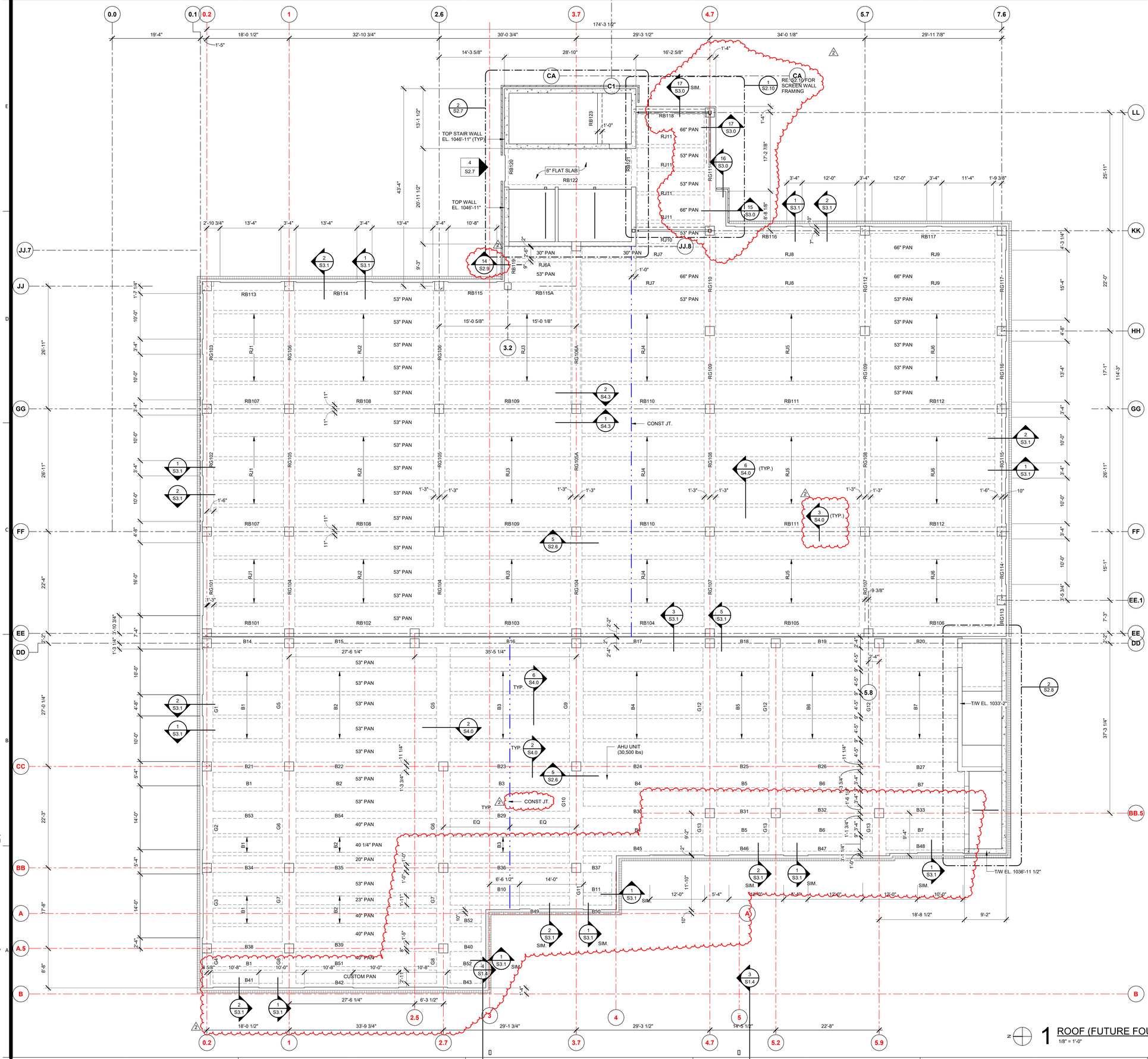

1 ROOF (FUTURE FOURTH LEVEL) FRAMING PLAN
1/8" = 1'-0"

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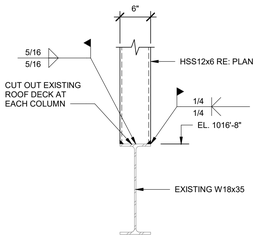
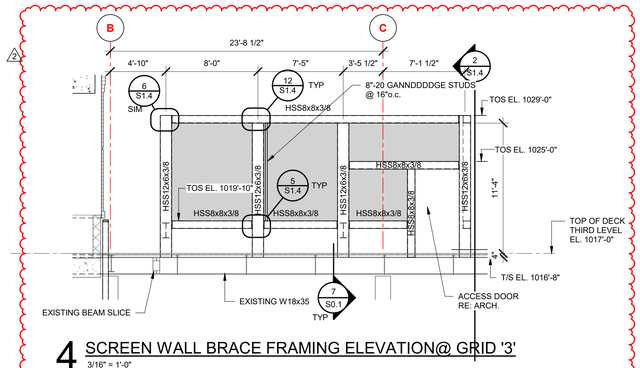
GRADING, FOOTING, AND FOUNDATION PACKAGE

S1.3

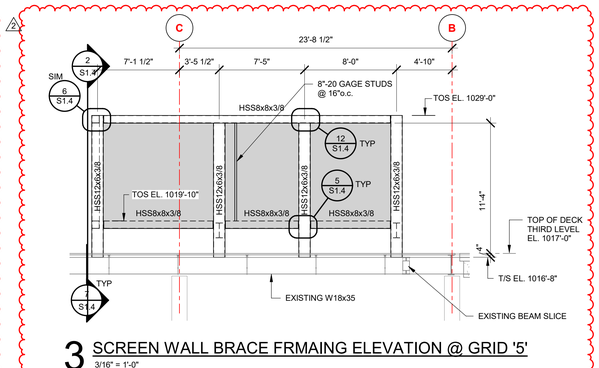
ROOF (FUTURE FOURTH LEVEL) FRAMING PLAN



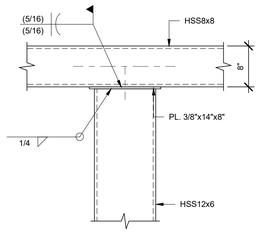
7 TYP. COLUMN TO EXISTING BEAM CONN.
1" = 1'-0"



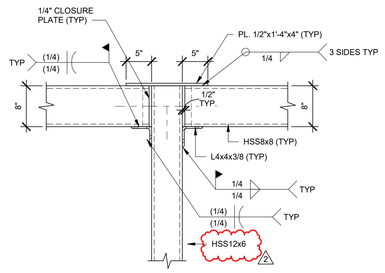
4 SCREEN WALL BRACE FRAMING ELEVATION@ GRID '3'
3/16" = 1'-0"



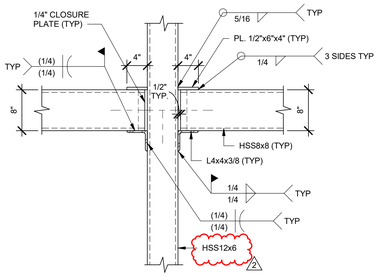
3 SCREEN WALL BRACE FRMAING ELEVATION @ GRID '5'
3/16" = 1'-0"



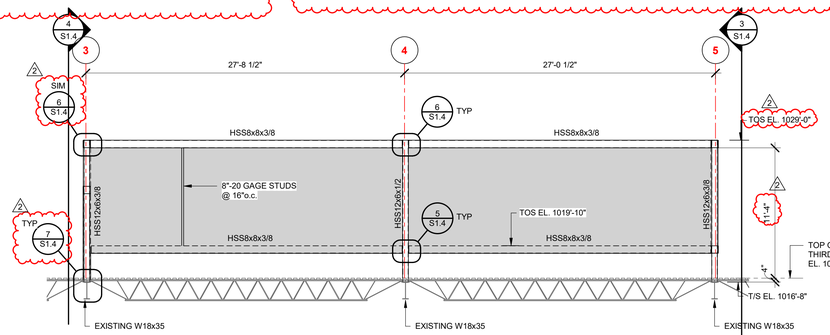
12 TUBE TO TUBE CONN.
1" = 1'-0"



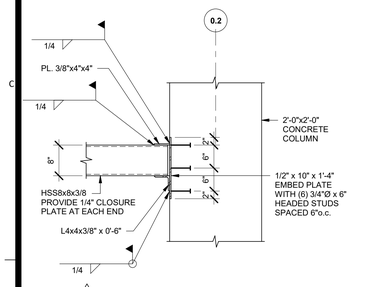
6 TUBE TO TUBE CONN.
1" = 1'-0"



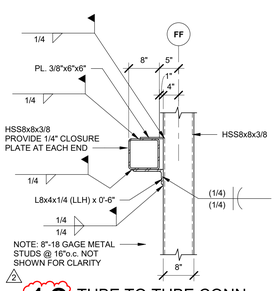
5 TUBE TO TUBE CONN.
1" = 1'-0"



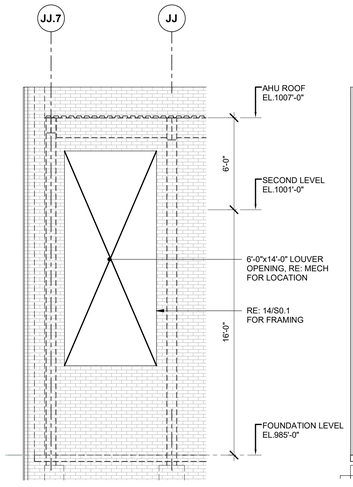
2 SCREEN WALL BRACE FRAMING ELEVATION @ GRID 'C'
3/16" = 1'-0"



11 TUBE CONN. TO CONC. COLUMN
3/4" = 1'-0"

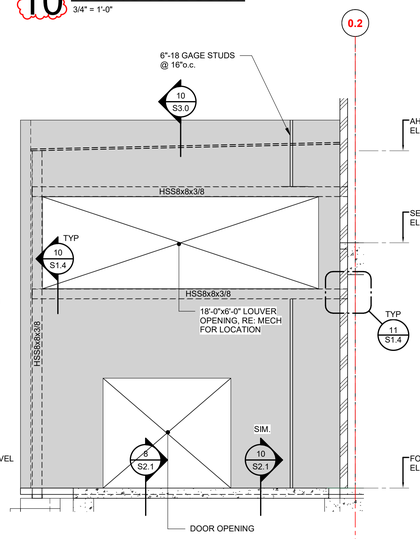


10 TUBE TO TUBE CONN.
3/4" = 1'-0"



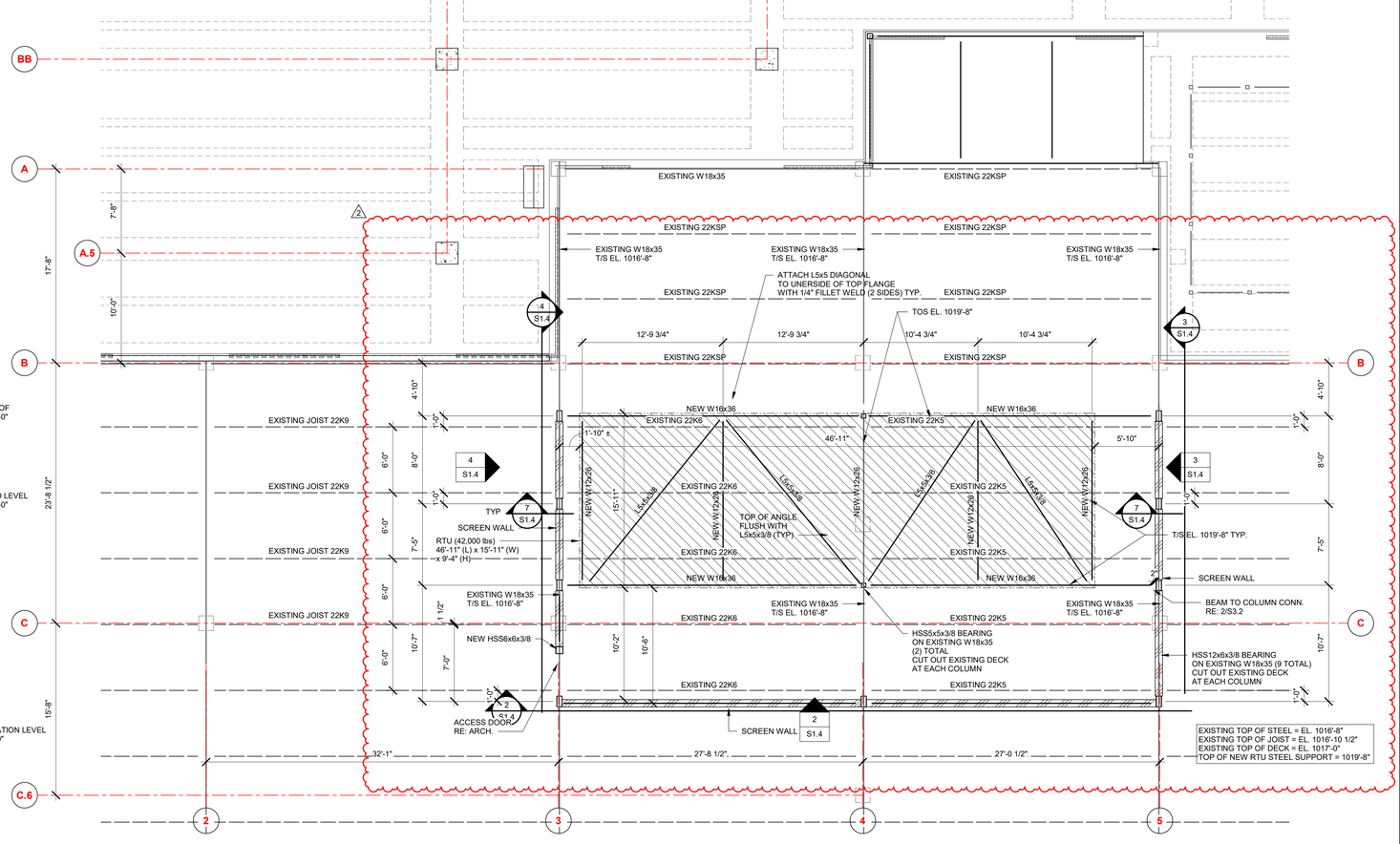
- INDICATES 8"-18 GAGE METAL STUDS @ 16"o.c. WITH EXTERIOR BRICK

9 ELEVATION AT LOUVER OPENING
1/4" = 1'-0"



- INDICATES 8"-18 GAGE METAL STUDS @ 16"o.c. WITH EXTERIOR BRICK

8 ELEVATION AT LOUVER OPENING
1/4" = 1'-0"



N 1 THIRD LEVEL AHU UNIT FRAMING PLAN
3/16" = 1'-0"

NOTES:
1. ALL STRUCTURAL STEEL FOR RTU AND SCREEN WALL SHALL BE HOT-DIP GALVANIZED.
2. COORDINATE EXACT LOCATIONS OF MECHANICAL UNIT SUPPORT FRAMING WITH UNIT DIMENSIONS.

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GRADING, FOOTING, AND FOUNDATION PACKAGE

S1.4

THIRD LEVEL AHU UNIT FRAMING PLAN

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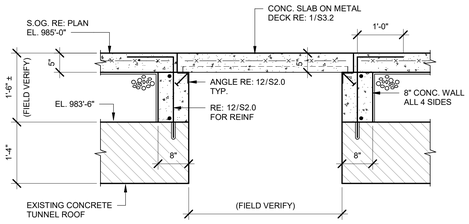
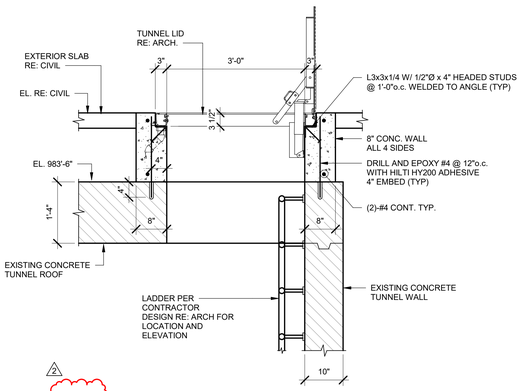
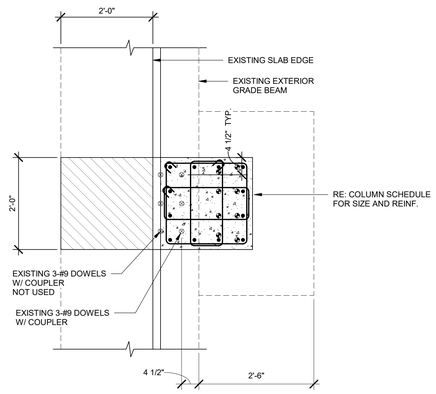


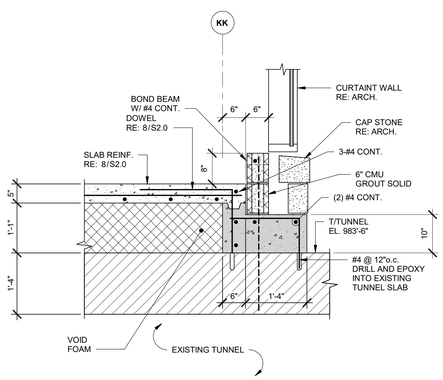
2
13 EXISTING MAN HOLE INFILL
3/4" = 1'-0"



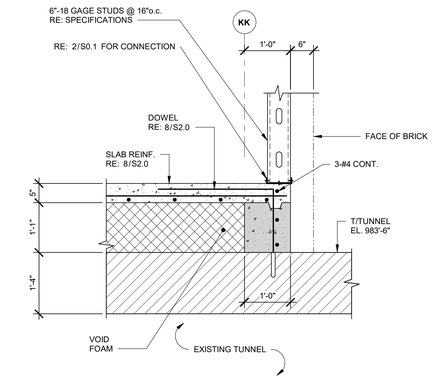
2
12 MAN HOLE OPENING AT EXISTING TUNNEL
3/4" = 1'-0"



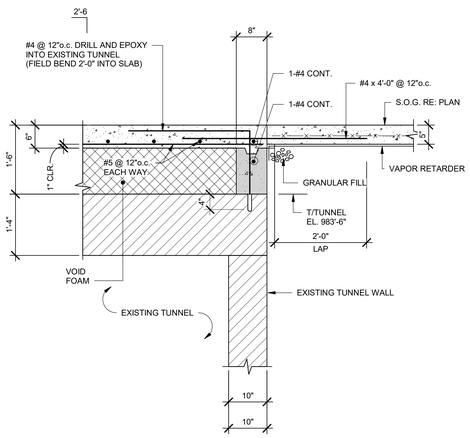
11 SECTION AT EXISTING FOUNDATION
3/4" = 1'-0"



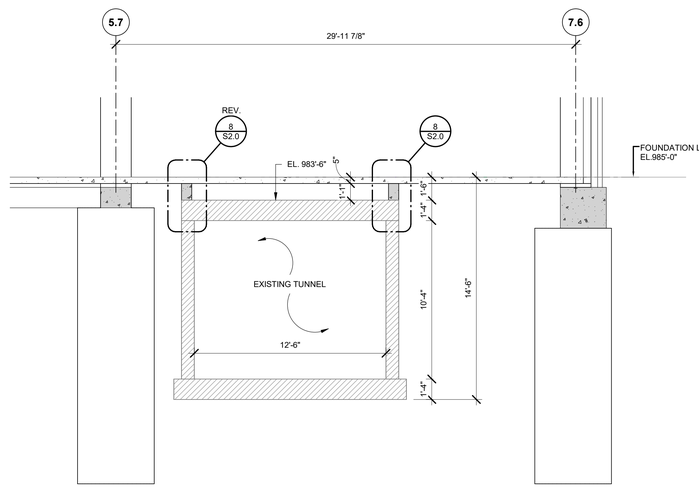
10 SECTION AT EXISTING TUNNEL
3/4" = 1'-0"



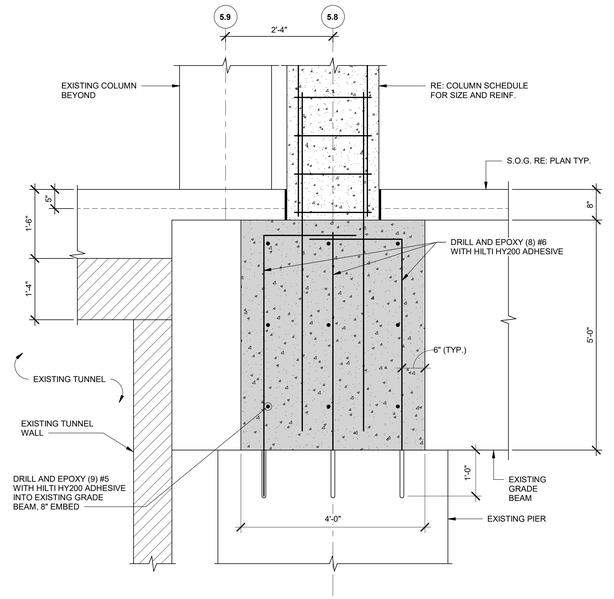
9 SECTION AT EXISTING TUNNEL
3/4" = 1'-0"



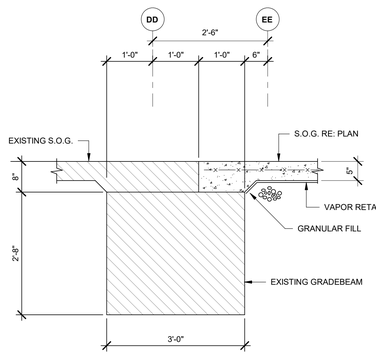
8 SECTION AT EXISTING TUNNEL
3/4" = 1'-0"



7 SECTION AT EXISTING TUNNEL
1/4" = 1'-0"

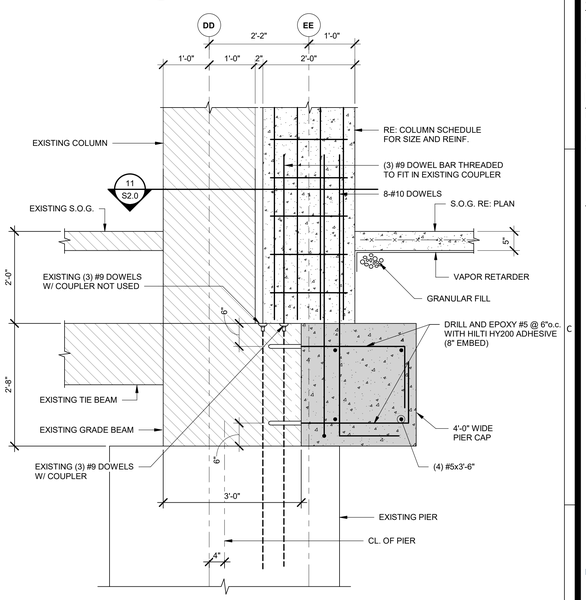


6 TYPICAL SECTION AT EXTERIOR GRADE BEAM
3/4" = 1'-0"

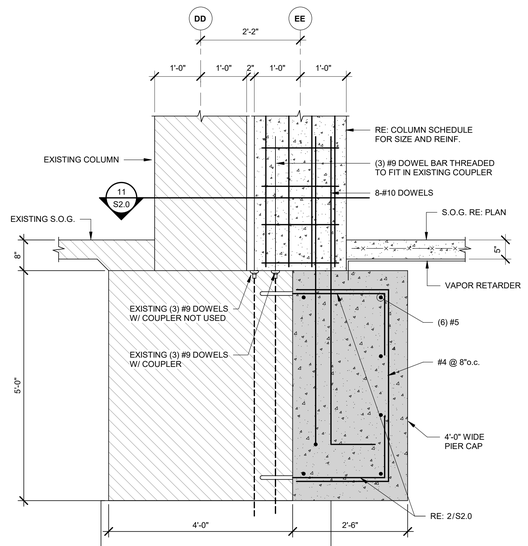


5 SECTION AT EXISTING FOUNDATION
3/4" = 1'-0"

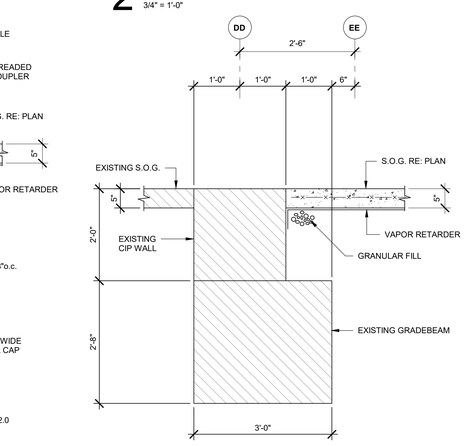
3 SECTION AT EXISTING FOUNDATION
3/4" = 1'-0"



2 SECTION AT EXISTING FOUNDATION
3/4" = 1'-0"



4 SECTION AT EXISTING FOUNDATION
3/4" = 1'-0"



1 SECTION AT EXISTING FOUNDATION
3/4" = 1'-0"

1 HATCHED AREA INDICATES SCOPE INCLUDED IN FOUNDATION PACKAGE

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CONSTRUCTION DOCUMENTS

Date	02/07/2023
Job Number	3-21037
Drawn By	GEB
Checked By	KGS

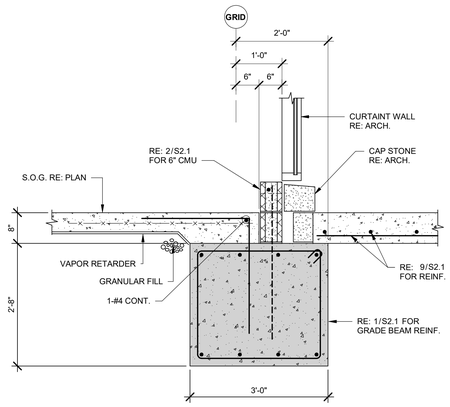
Revision

Number	Date	Description
1	01-20-23	ADDENDUM #1
2	02-10-23	ADDENDUM #2

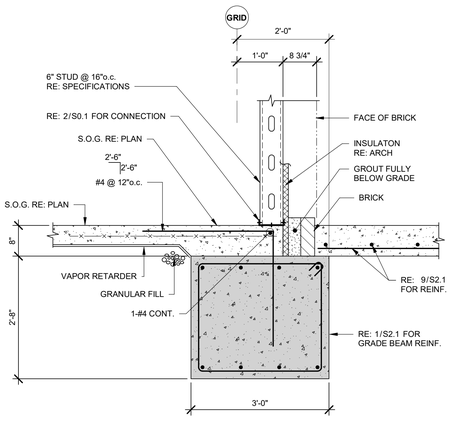
GRADING, FOOTING, AND FOUNDATION PACKAGE

S2.0

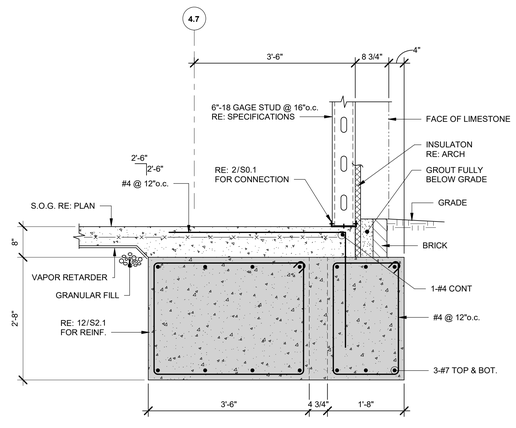
FOUNDATION DETAILS



11 TYPICAL SECTION AT WINDOW
3/4" = 1'-0"

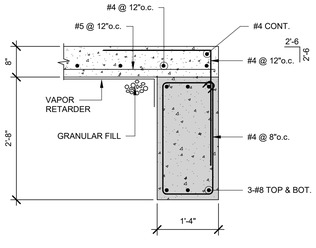


10 TYPICAL SECTION AT EXTERIOR WALL
3/4" = 1'-0"

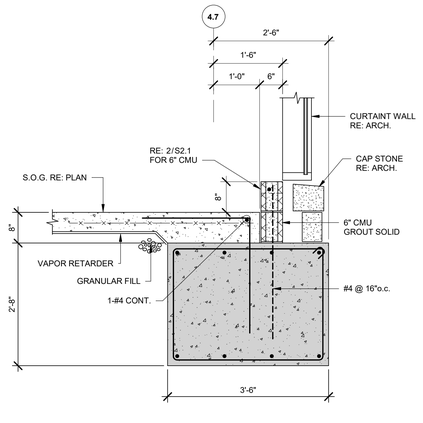


1

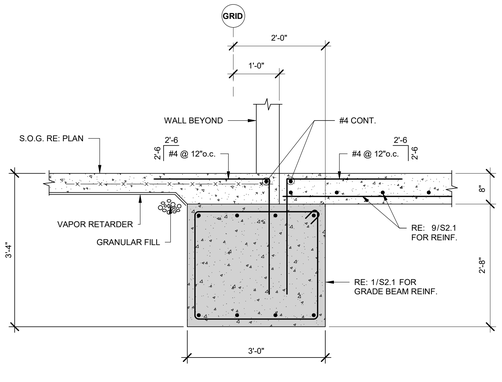
13 TYPICAL SECTION AT EXTERIOR WALL
3/4" = 1'-0"



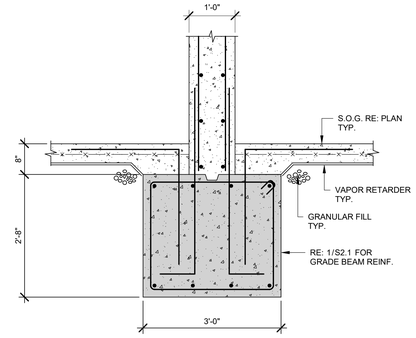
9 SECTION AT EXTERIOR STOOP
3/4" = 1'-0"



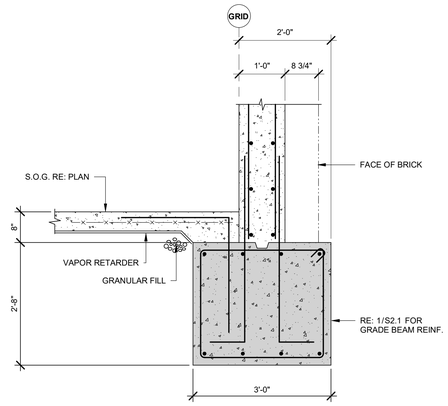
12 SECTION AT WINDOW
3/4" = 1'-0"



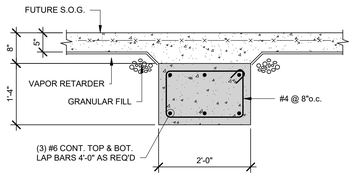
8 SECTION AT DOOR
3/4" = 1'-0"



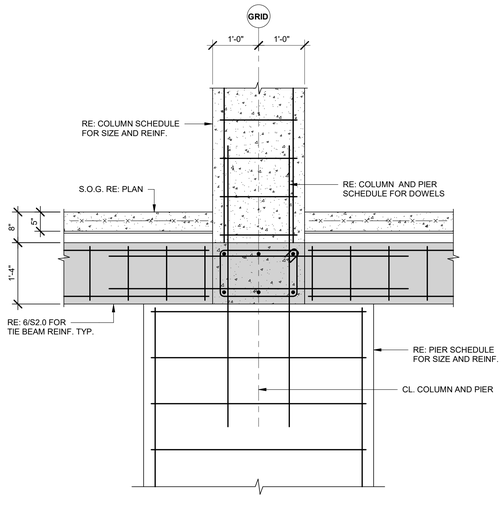
7 TYPICAL SECTION AT WINDOW
3/4" = 1'-0"



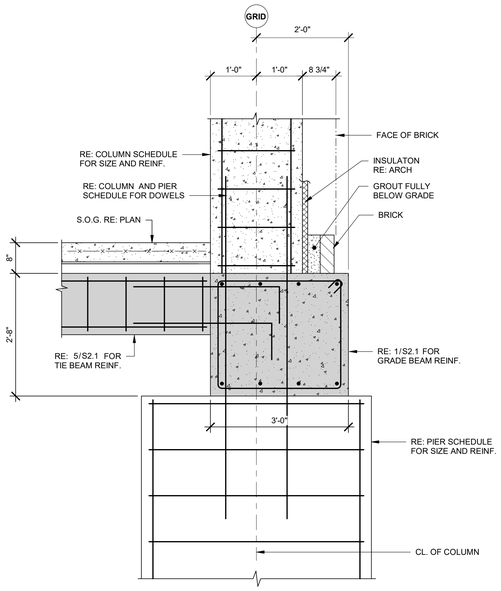
6 SECTION @ EXTERIOR WALL
3/4" = 1'-0"



5 TYPICAL SECTION AT TIE BEAM
3/4" = 1'-0"

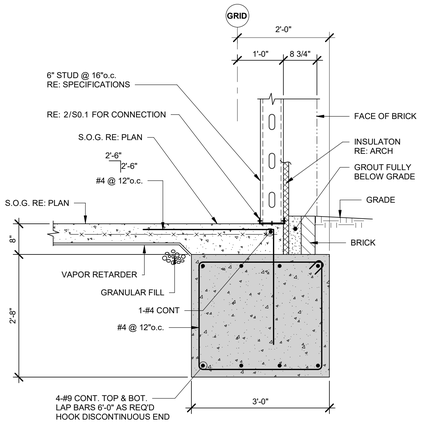


4 TYPICAL SECTION AT INTERIOR COL.
3/4" = 1'-0"



3 TYPICAL SECTION AT EXTERIOR COL.
3/4" = 1'-0"

2 TYPICAL SECTION AT WINDOW
3/4" = 1'-0"



1 TYPICAL SECTION AT EXTERIOR WALL
3/4" = 1'-0"

1 **HATCHED AREA INDICATES SCOPE INCLUDED IN FOUNDATION PACKAGE**

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Date	02/07/2023
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Checked By	KGS

Revision

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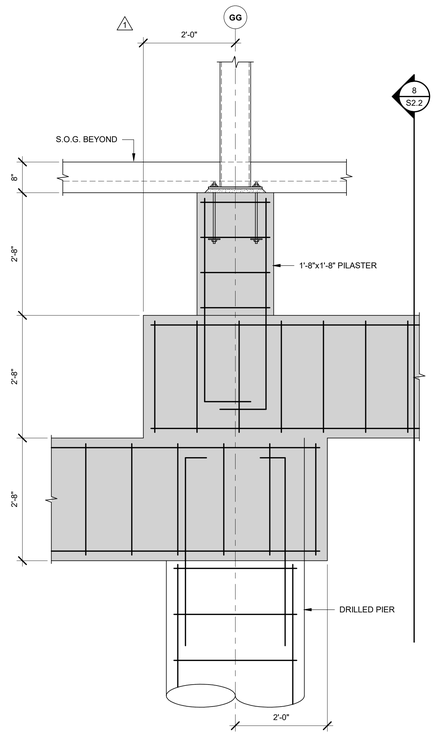
1	01-20-23	ADDENDUM #1

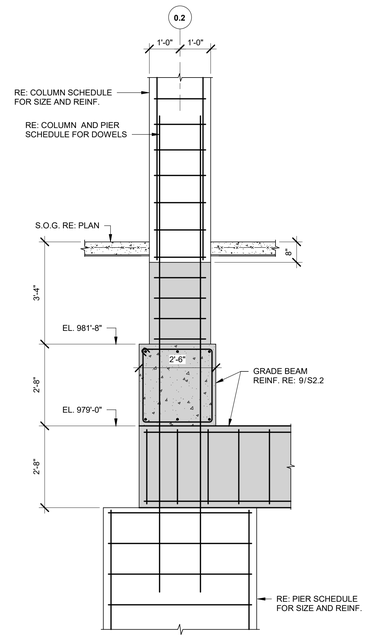
GRADING, FOOTING, AND FOUNDATION PACKAGE

S2.1

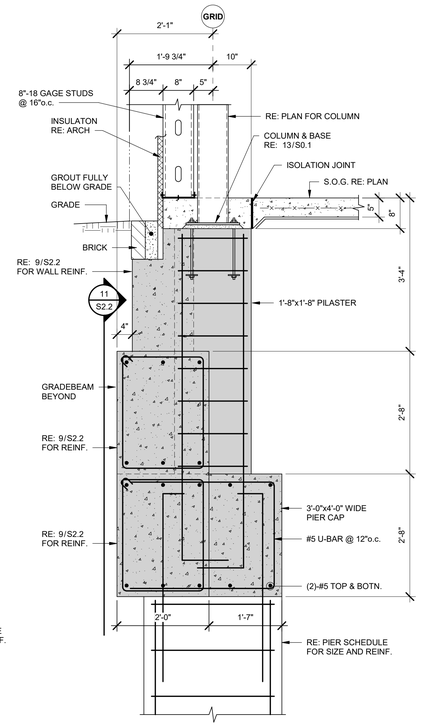
FOUNDATION DETAILS



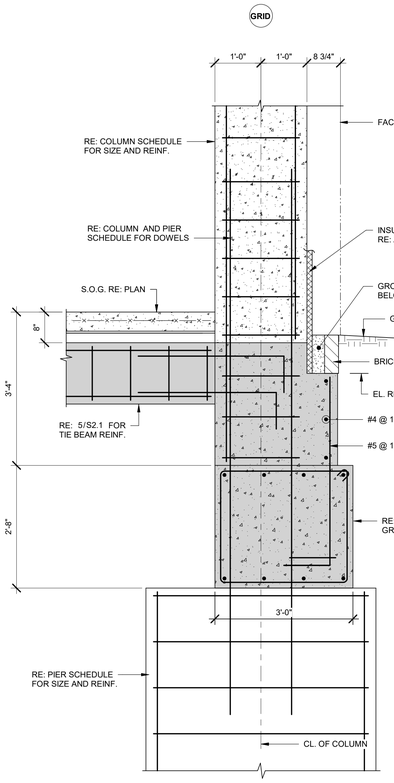
11 SECTION AT GRADE BEAM STEP
3/4" = 1'-0"



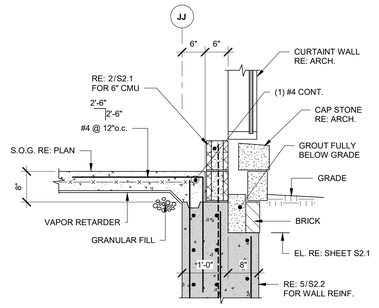
10 SECTION AT GRADE BEAM
1/2" = 1'-0"



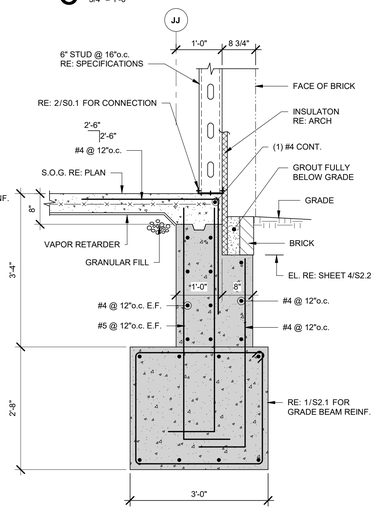
9 SECTION @ EXTERIOR WALL
3/4" = 1'-0"



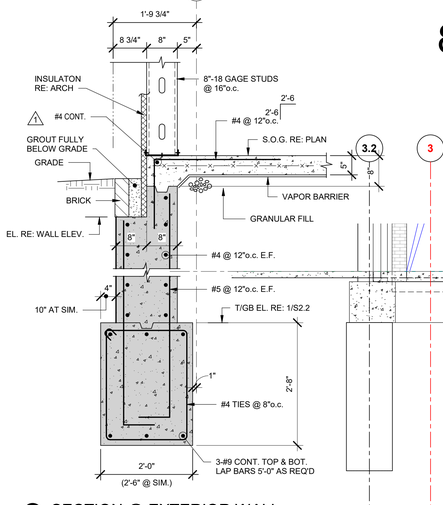
7 SECTION AT EXTERIOR COL.
3/4" = 1'-0"



6 SECTION AT EXTERIOR WALL
3/4" = 1'-0"

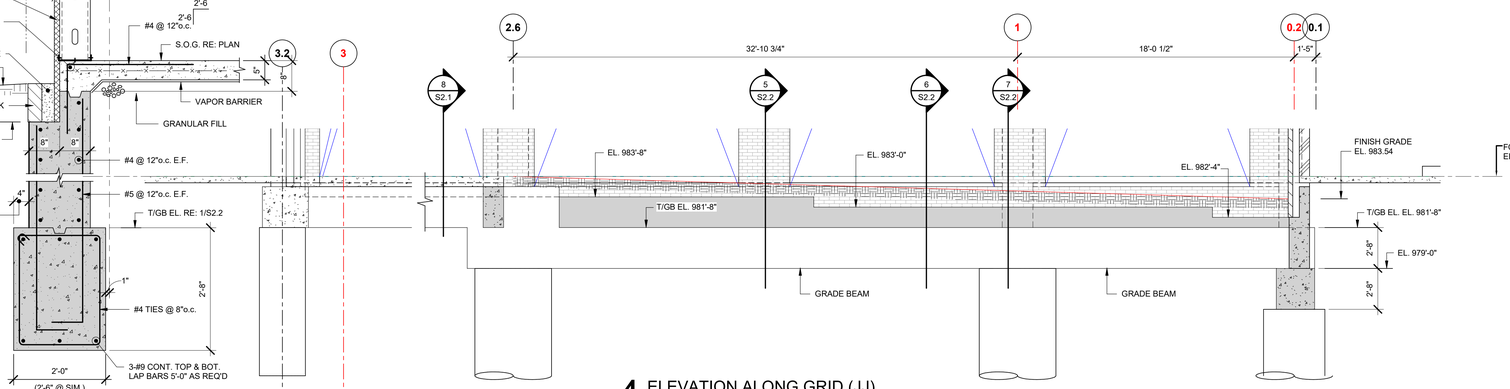


5 SECTION AT EXTERIOR WALL
3/4" = 1'-0"

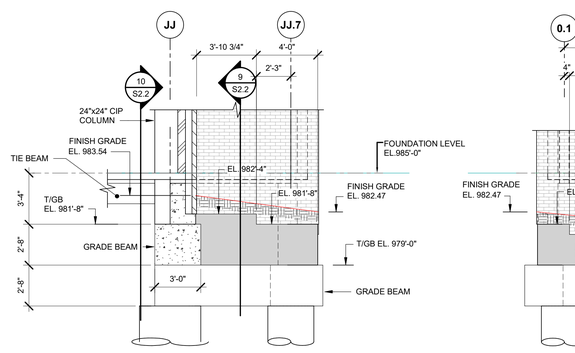


9 SECTION @ EXTERIOR WALL
3/4" = 1'-0"

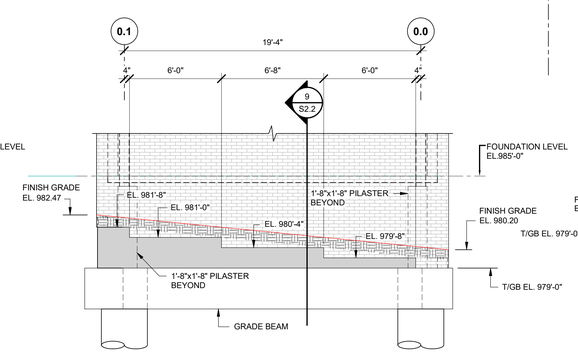
8 SECTION @ EXTERIOR WALL
3/4" = 1'-0"



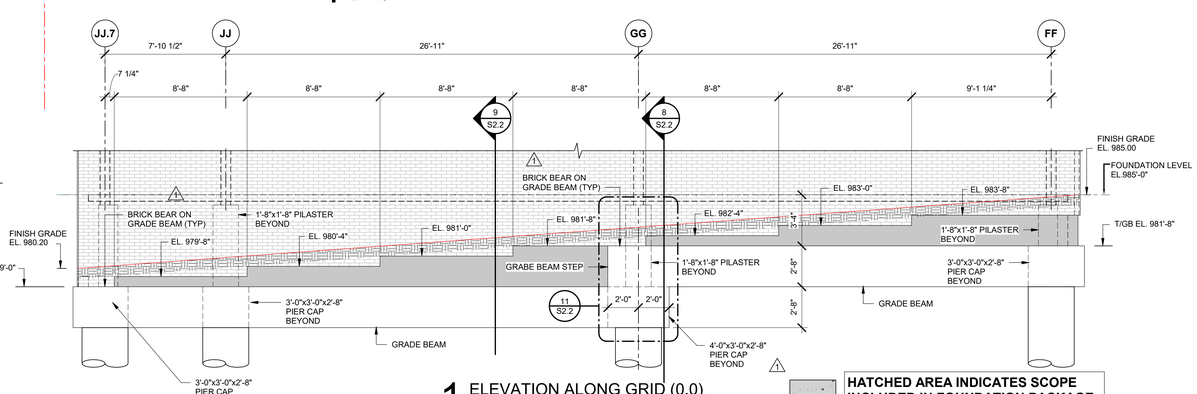
4 ELEVATION ALONG GRID (JJ)
1/4" = 1'-0"



3 ELEVATION ALONG GRID (0.1)
1/4" = 1'-0"



2 ELEVATION ALONG GRID (JJ.7)
1/4" = 1'-0"



1 ELEVATION ALONG GRID (0.0)
1/4" = 1'-0"

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Checked By	Checker

Revision

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1	01-20-23	ADDENDUM #1

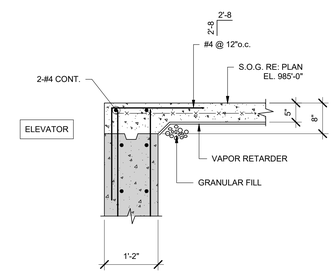
GRADING, FOOTING, AND FOUNDATION PACKAGE

S2.2

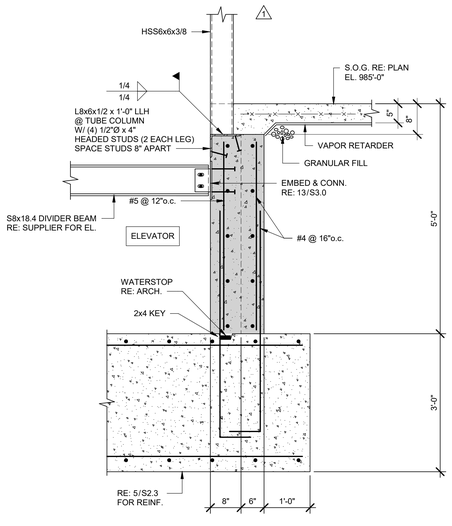
FOUNDATION ELEVATION AND DETAILS

DETAIL NOT USED

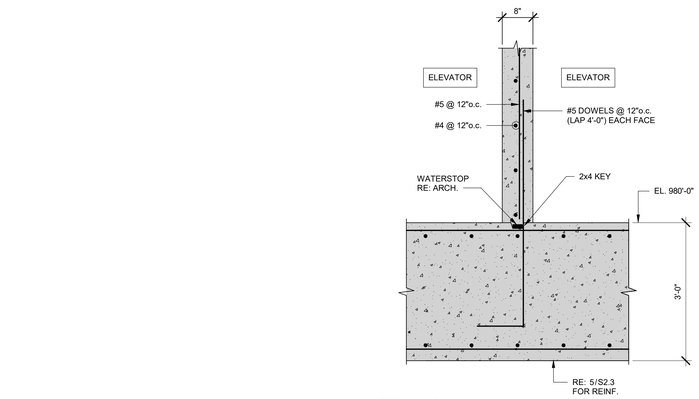
10 SECTION AT DOOR INFILL
3/4" = 1'-0"



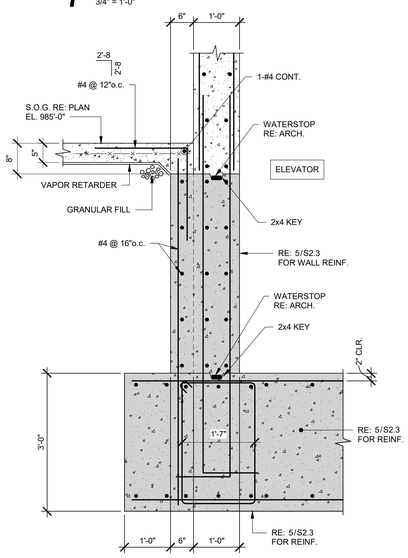
9 SECTION AT ELEVATOR DOOR
3/4" = 1'-0"



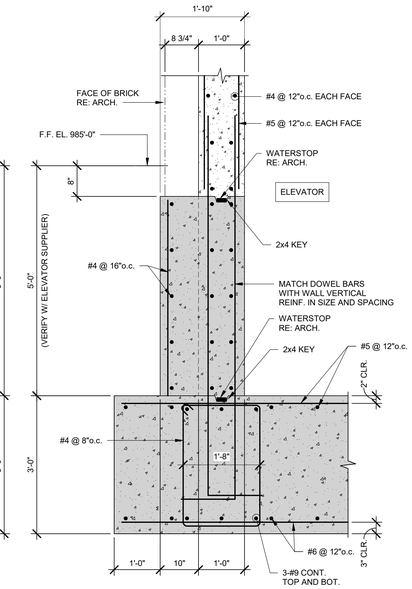
8 SECTION AT ELEVATOR PIT
3/4" = 1'-0"



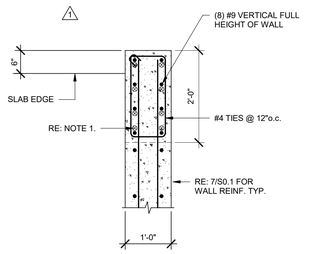
7 SECTION AT ELEVATOR PIT
3/4" = 1'-0"



6 SECTION AT ELEVATOR PIT
3/4" = 1'-0"

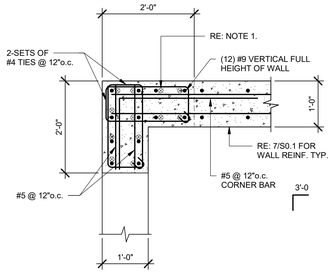


5 SECTION AT ELEVATOR PIT
3/4" = 1'-0"



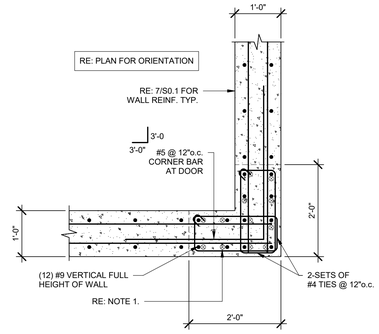
NOTES:
1. TOP OF WALL: PROVIDE REINF. COUPLERS FOR FUTURE EXPANSION, MATCH REINF. SIZE AND QUANTITY WITH COLUMN VERTICAL. (RE: 5/S2.6).
2. EXTEND DOWELS INTO PIERS AT FOUNDATION. MATCH SIZE AND QUANTITY WITH VERTICAL REINF. RE: 1/S2.6. FOR REQUIRED LAP LENGTH.

4 PLAN SECTION AT INTERIOR WALL
3/4" = 1'-0"



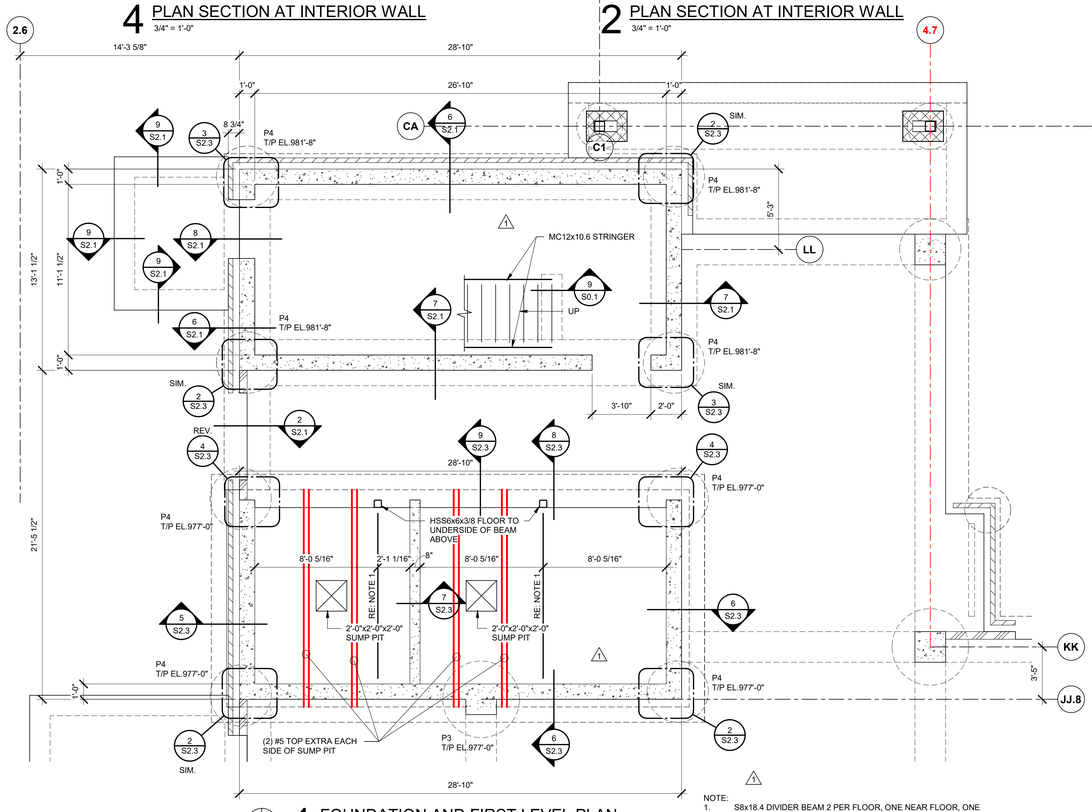
NOTES:
1. TOP OF WALL: PROVIDE REINF. COUPLERS FOR FUTURE EXPANSION, MATCH REINF. SIZE AND QUANTITY WITH COLUMN VERTICAL. (RE: 5/S2.6).
2. EXTEND DOWELS INTO PIERS AT FOUNDATION. MATCH SIZE AND QUANTITY WITH VERTICAL REINF. RE: 1/S2.6. FOR REQUIRED LAP LENGTH.

3 PLAN SECTION AT INTERIOR WALL
3/4" = 1'-0"



NOTES:
1. TOP OF WALL: PROVIDE REINF. COUPLERS FOR FUTURE EXPANSION, MATCH REINF. SIZE AND QUANTITY WITH COLUMN VERTICAL. (RE: 5/S2.6).
2. EXTEND DOWELS INTO PIERS AT FOUNDATION. MATCH SIZE AND QUANTITY WITH VERTICAL REINF. RE: 1/S2.6. FOR REQUIRED LAP LENGTH.

2 PLAN SECTION AT INTERIOR WALL
3/4" = 1'-0"



NOTE:
1. S8x18.4 DIVIDER BEAM 2 PER FLOOR, ONE NEAR FLOOR, ONE IN-BETWEEN FLOORS. COORDINATE EXACT LOCATION WITH ELEVATOR SUPPLIER.

N

1 FOUNDATION AND FIRST LEVEL PLAN
1/4" = 1'-0"

NOTE:
FOUNDATION PACKAGE NCLUEDS DRILLED PIERS GRAD BEAMS/FOOTING, WALL AND COLUMN DOWELS

HATCHED AREA INDICATES SCOPE INCLUDED IN FOUNDATION PACKAGE

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CONSTRUCTION DOCUMENTS

Saint Luke's
EAST HOSPITAL
ASC EXPANSION & RENOVATION
100 NE Saint Luke's Blvd
Lee's Summit, MO 64086

Date	02/07/2023
Job Number	3-21037
Drawn By	Author
Checked By	Checker

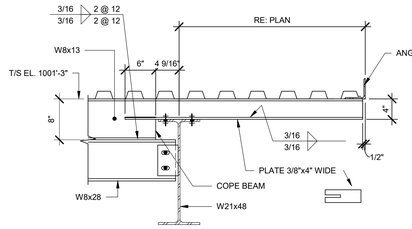
Revision

Number	Date	Description
1	01-20-23	ADDENDUM #1
2	02-10-23	ADDENDUM #2

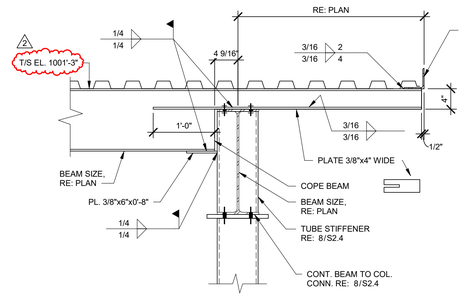
GRADING, FOOTING, AND FOUNDATION PACKAGE

S2.3

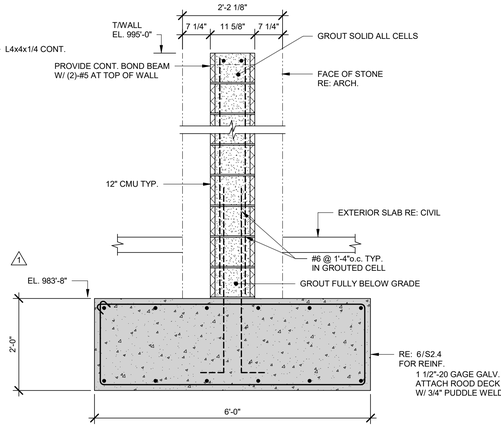
ENLARGED STAIR/ELEVATOR PLANS AND DETAILS



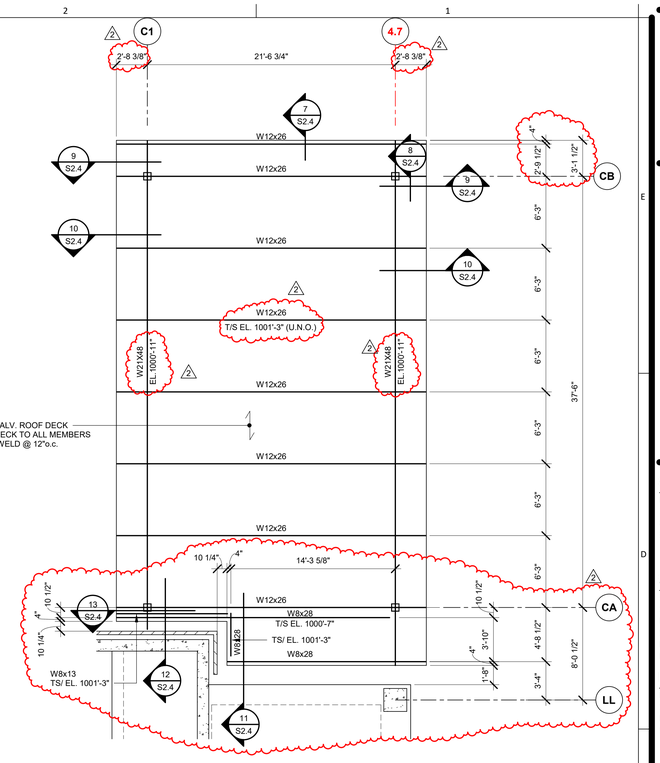
2 13 SECTION AT CANOPY ROOF
1" = 1'-0"



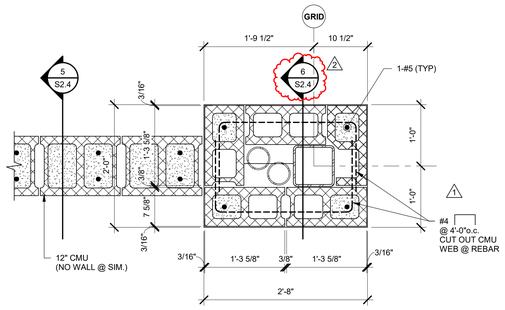
9 SECTION AT CANOPY ROOF
1" = 1'-0"



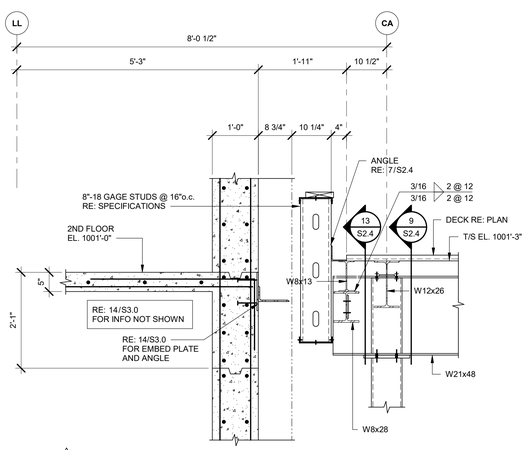
5 CANOPY WALL FOUNDATION
3/4" = 1'-0"



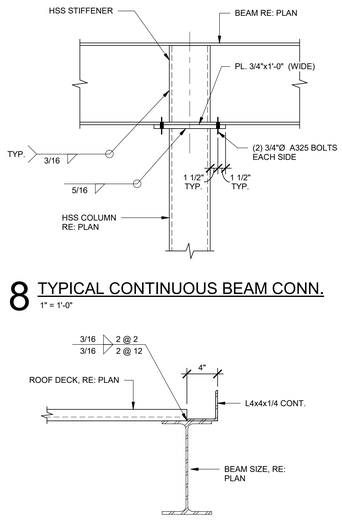
N 2 CANOPY ROOF FRAMING PLAN
3/16" = 1'-0"



4 PLAN SECTION AT PILASTER
1" = 1'-0"

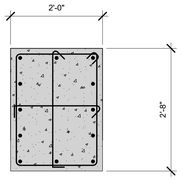


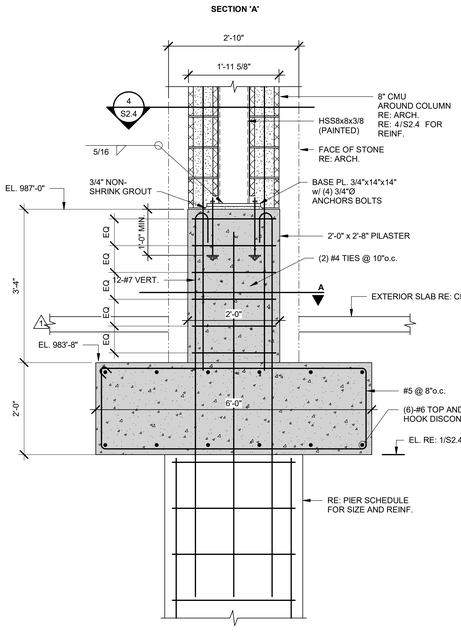
2 12 SECTION AT CANOPY ROOF
3/4" = 1'-0"



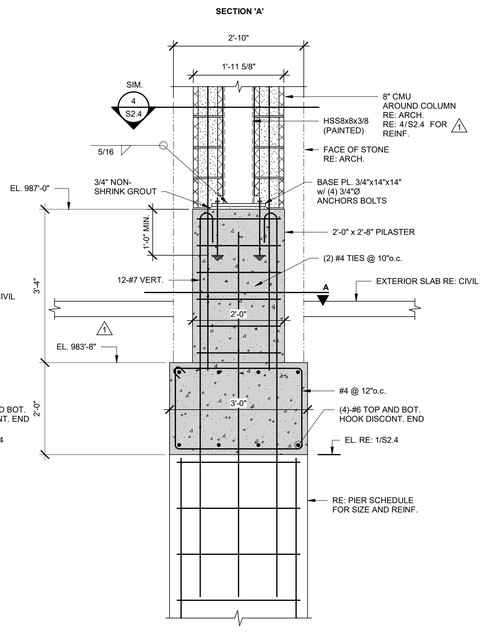
8 TYPICAL CONTINUOUS BEAM CONN.
1" = 1'-0"

7 SECTION AT VESTIBULE ROOF
1 1/2" = 1'-0"

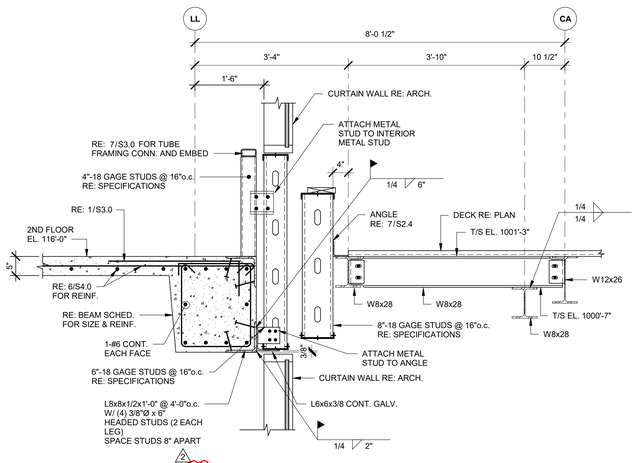




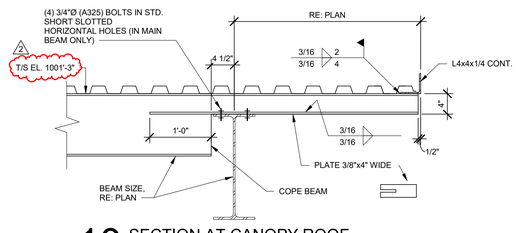
1 6 CANOPY COLUMN FOUNDATION
3/4" = 1'-0"



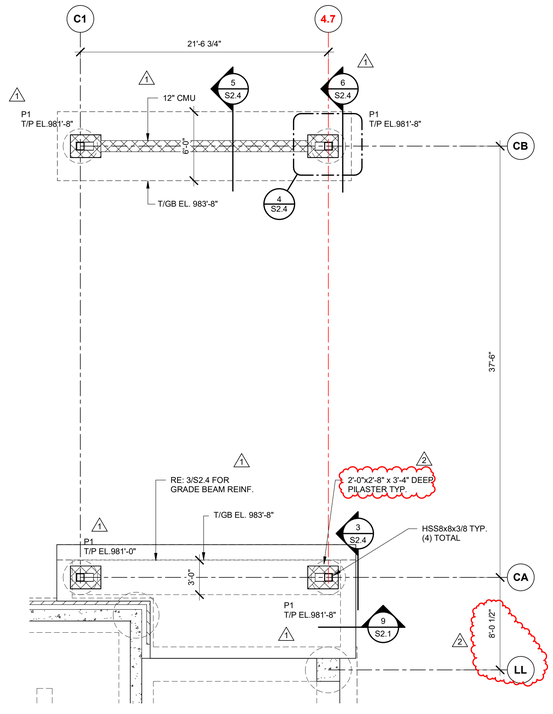
3 CANOPY COLUMN FOUNDATION
3/4" = 1'-0"



2 11 SECTION AT CANOPY ROOF
3/4" = 1'-0"



2 10 SECTION AT CANOPY ROOF
1" = 1'-0"



N 1 FOUNDATION AND FIRST LEVEL PLAN
3/16" = 1'-0"

1 HATCHED AREA INDICATES SCOPE INCLUDED IN FOUNDATION PACKAGE

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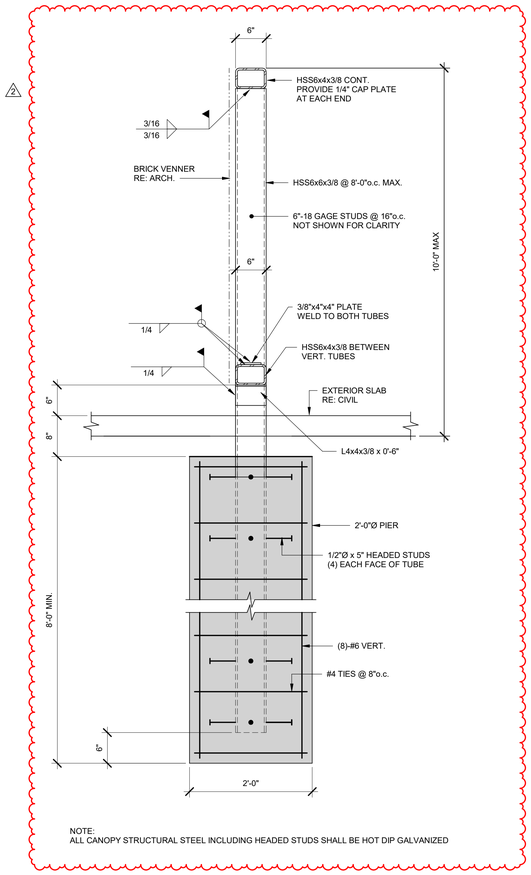
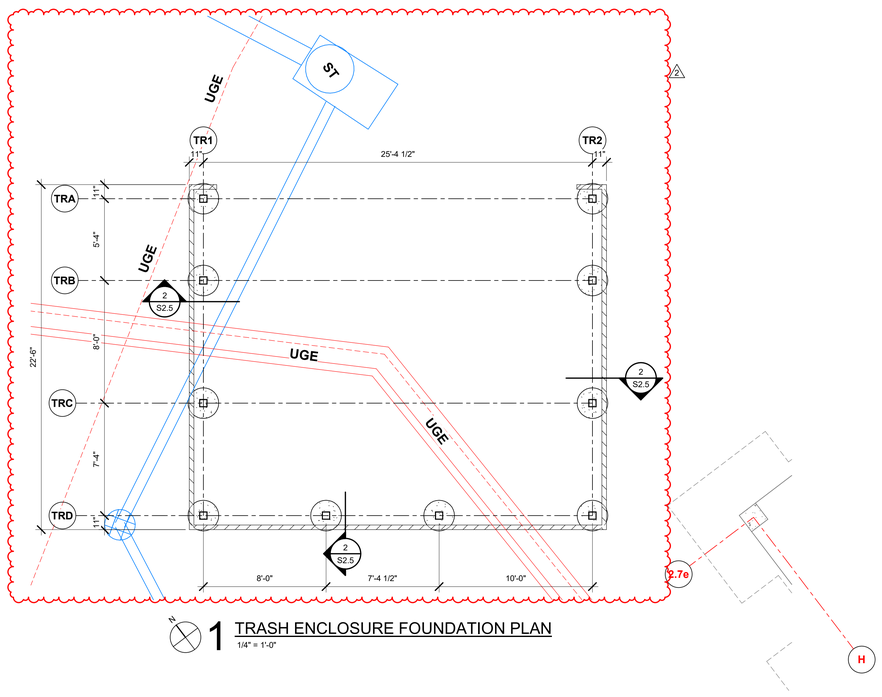
GRADING, FOOTING, AND FOUNDATION PACKAGE

S2.4

CANOPY PLANS AND DETAILS



2 SECTION AT SCREEN WALL
1" = 1'-0"



1 TRASH ENCLOSURE FOUNDATION PLAN
1/4" = 1'-0"

HATCHED AREA INDICATES SCOPE INCLUDED IN FOUNDATION PACKAGE

STATE OF MISSOURI
KRISHNA G. SAHA
NUMBER PE-2013862
PROFESSIONAL ENGINEER
Krishna G. Saha
02/16/2023

Krishna G. Saha / Engineer
License - Missouri PE #023862

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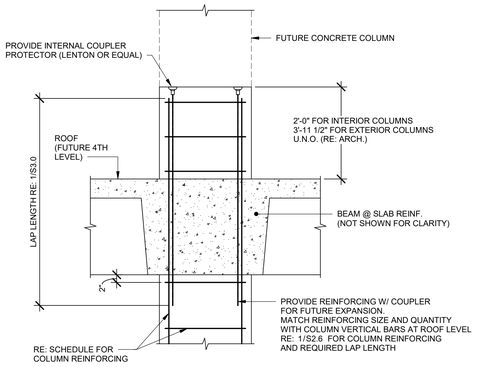
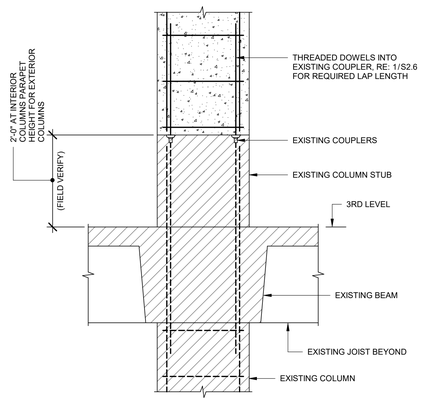
GRADING, FOOTING, AND FOUNDATION PACKAGE

S2.5

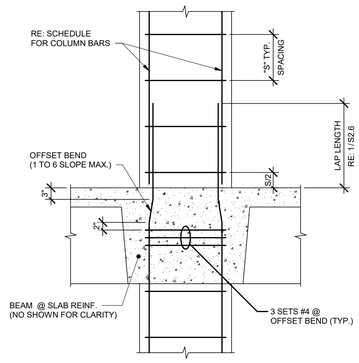
TRASH ENCLOSURE PLAN AND DETAILS



5 TYP. COLUMN DETAIL FOR FUTURE EXPANSION
3/4" = 1'-0"

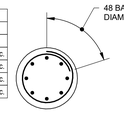


4 TYP. COLUMN DETAIL AT EXISTING ROOF
3/4" = 1'-0"



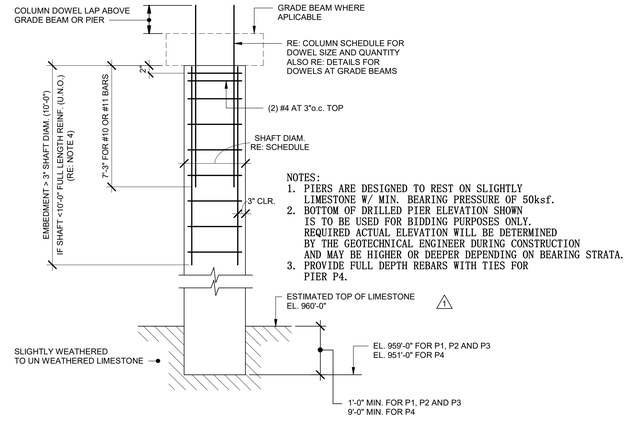
3 TYP. COLUMN DETAIL @ FLOOR
3/4" = 1'-0"

DRILLED PIER SCHEDULE				
PIER NO.	SHAFT DIA.	SERVICE LOAD (K)	REINFORCEMENT VERTICALS	REINFORCEMENT TIES
P1	3'-0"	353	8-#8	#4 @ 18"o.c.
P2	4'-0"	625	8-#11	#4 @ 18"o.c.
P3	5'-0"	980	9-#11	#4 @ 18"o.c.
P4	4'-0"	625	8-#11	#4 @ 18"o.c.

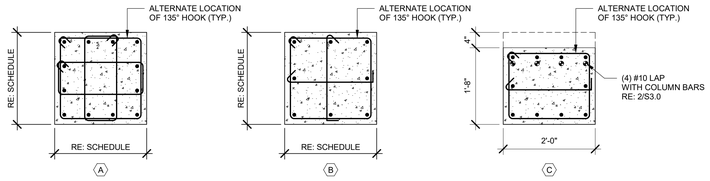


* LAP LENGTHS FOR COLUMN BAR SPLICES	
BAR SIZE	LAP LENGTHS (INCHES)
#7	54
#8	62
#9	70
#10	79
#11	87

* WHERE BARS OF DIFFERENT SIZE ARE LAP SPLICED USE THE LAP LENGTH OF THE SMALLER BAR.



2 TYP. DRILLED PIER REINFORCEMENT
N.T.S.



* LAP LENGTHS FOR COLUMN BAR SPLICES	
BAR SIZE	LAP LENGTHS (INCHES)
#7	54
#8	62
#9	70
#10	79
#11	87

* WHERE BARS OF DIFFERENT SIZE ARE LAP SPLICED USE THE LAP LENGTH OF THE SMALLER BAR.

EXISTING BUILDING COLUMN SCHEDULE

GRID / FLOOR	DD/0.2, DD/1 DD/5.2, DD/5.9 CC/0.2, CC/1 BB/0.2, BB/1 BB.5/5.2 BB.5/5.9 A.5/0.2, A.5/1 A.5/2.7	DD/2.5, DD/3.7 DD/4.7 CC/2.7, CC/3.7 BB/2.7, BB/3.7 BB.5/4.7
(FUTURE ROOF)		
EL. 1065'-0" (FUTURE 5TH)	FUTURE 24" x 24"	FUTURE 24" x 24"
EL. 1049'-0" (FUTURE 4TH)	FUTURE 24" x 24"	FUTURE 24" x 24"
EL. 1033'-0" THIRD LEVEL	12-#10 W/ COUPLERS RE: 5/S4.0; 24" x 24" 3-#4 TIES @ 10"o.c. 12-#10	12-#10 W/ COUPLERS RE: 5/S4.0; 24" x 24" 3-#4 TIES @ 10"o.c. 12-#10
EL. 1017'-0" SECOND LEVEL	RE: 4/S4.0; EXISTING 24" x 24"	RE: 4/S4.0; EXISTING 24" x 24"
EL. 1001'-0" FIRST LEVEL	EXISTING 24" x 24"	EXISTING 24" x 24"
EL. 985'-0"	EXISTING 12-#10 DOWELS	EXISTING 12-#10 DOWELS
PLAN DETAIL	A	A

EXISTING DOWELS WITH COUPLER RE: 4/S4.0 (TYP.)

NEW BUILDING COLUMN SCHEDULE

GRID / FLOOR	EE/0.2, EE/1, EE/2.5, EE/3.7 EE/4.7 EE/5.8	EE.1/7.6 FF/0.2, FF/1 FF/2.6, FF/3.7 FF/4.7, FF/5.7 FF/7.6	JJ/3.2	GG/0.2, GG/1 GG/2.6, GG/3.7 GG/4.7, GG/5.7 GG/7.6	HH/4.7, HH/5.7 HH/7.6	JJ/0.2, JJ/1 JJ/2.6, JJ.8/3.7	KK/4.7, KK/5.7 KK/7.6	LL/4.7
(FUTURE ROOF)								
EL. 1065'-0" (FUTURE 4TH)	FUTURE 20" x 24"	FUTURE 24" x 24"	FUTURE 18" x 18"	FUTURE 24" x 24"	FUTURE 24" x 24"	FUTURE 24" x 24"	FUTURE 24" x 24"	FUTURE 24" x 24"
EL. 1033'-0" THIRD LEVEL	12-#10 W/ COUPLERS RE: 5/S2.6; 20" x 24" 3-#4 TIES @ 10"o.c. 12-#10	12-#10 W/ COUPLERS RE: 5/S2.6; 24" x 24" 3-#4 TIES @ 10"o.c. 12-#10	T/COL EL. 1046'-11"; 18" x 18" 3-#4 TIES @ 10"o.c. 8-#10	8-#10 W/ COUPLERS; 12-#10 W/ COUPLERS RE: 5/S2.6; 24" x 24" 3-#4 TIES @ 10"o.c. 12-#10	12-#10 W/ COUPLERS RE: 5/S2.6; 24" x 24" 3-#4 TIES @ 10"o.c. 12-#10	12-#10 W/ COUPLERS RE: 5/S2.6; 24" x 24" 3-#4 TIES @ 10"o.c. 12-#10	12-#10 W/ COUPLERS RE: 5/S2.6; 24" x 24" 3-#4 TIES @ 10"o.c. 12-#10	12-#10 W/ COUPLERS RE: 5/S2.6; 24" x 24" 3-#4 TIES @ 10"o.c. 12-#10
EL. 1017'-0" SECOND LEVEL	20" x 24" 3-#4 TIES @ 10"o.c. 10-#10 12-#4 H.T. DETAIL C	24" x 24" 3-#4 TIES @ 10"o.c. 12-#10	18" x 18" 3-#4 TIES @ 10"o.c. 8-#10	24" x 24" 3-#4 TIES @ 10"o.c. 12-#10	24" x 24" 3-#4 TIES @ 10"o.c. 12-#10	24" x 24" 3-#4 TIES @ 10"o.c. 12-#10	24" x 24" 3-#4 TIES @ 10"o.c. 12-#10	24" x 24" 3-#4 TIES @ 10"o.c. 12-#10
EL. 1001'-0" FIRST LEVEL	RE: 2/S3.0 4-#10 DOWEL; 24" x 24" 3-#4 TIES @ 10"o.c. 8-#10 4-#10	24" x 24" 3-#4 TIES @ 10"o.c. 12-#10	18" x 18" 3-#4 TIES @ 10"o.c. 8-#10	24" x 24" 3-#4 TIES @ 10"o.c. 12-#10	24" x 24" 3-#4 TIES @ 10"o.c. 12-#10	24" x 24" 3-#4 TIES @ 10"o.c. 12-#10	24" x 24" 3-#4 TIES @ 10"o.c. 12-#10	24" x 24" 3-#4 TIES @ 10"o.c. 12-#10
EL. 985'-0"	EXISTING FOOTING RE: DETAILS 2, 4, & 10/S2.0	FDN PKG. 12-#10 DOWELS	FDN PKG. 12-#10 DOWELS	FDN PKG. 12-#10 DOWELS	FDN PKG. 12-#10 DOWELS	FDN PKG. 12-#10 DOWELS	FDN PKG. 12-#10 DOWELS	FDN PKG. 12-#10 DOWELS
PLAN DETAIL	A & C 1	A	B	A	A	A	A	A

RE: PLAN/DETAILS & ELEVATIONS 1

TOP OF GRADE BEAMS TIE BEAMS OR FOUNDATION WALLS RE: SECTION FOR ELEVATION

INDICATES EXISTING

HATCHED AREA INDICATES SCOPE INCLUDED IN FOUNDATION PACKAGE

1 COLUMN SCHEDULE AND PLAN DETAILS
N.T.S.

STATE OF MISSOURI
KRISHNA G. SAHA
NUMBER PE-2010022
PROFESSIONAL ENGINEER
Krishna G. Saha 2/8/2023
Krishna G. Saha / Engineer
License - Missouri PE #023862

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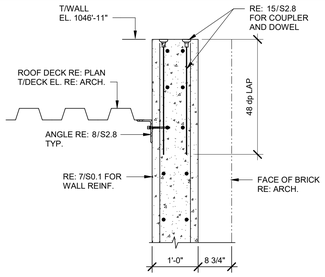
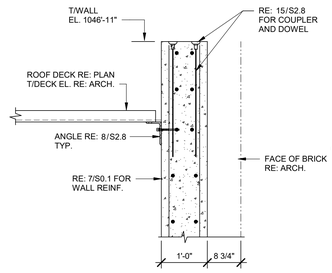
S2.6

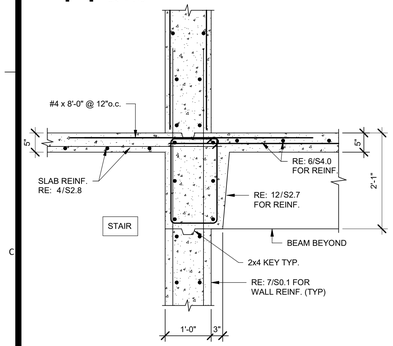
COLUMN SCHEDULE AND DETAILS



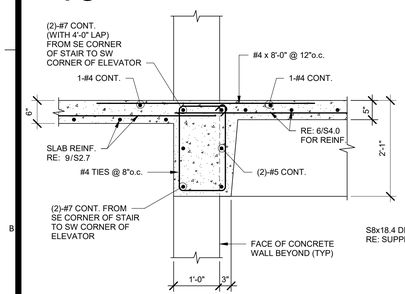
15 SECTION AT INTERIOR WALL
3/4" = 1'-0"



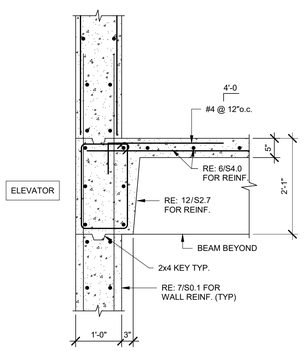
14 SECTION AT INTERIOR WALL
3/4" = 1'-0"



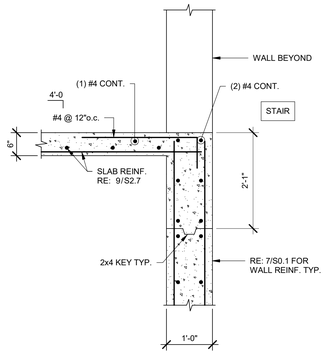
13 SECTION AT INTERIOR WALL
3/4" = 1'-0"



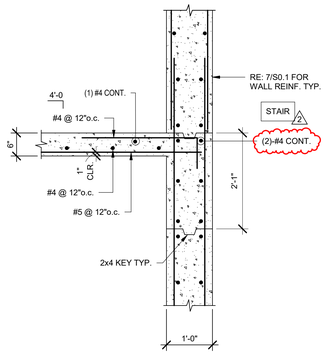
12 SECTION NEAR ELEVATOR
3/4" = 1'-0"



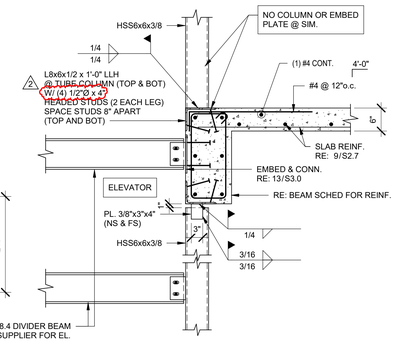
11 SECTION AT INTERIOR WALL
3/4" = 1'-0"



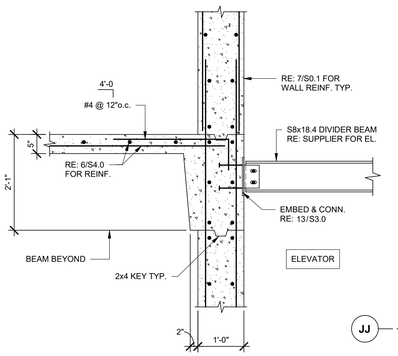
10 SECTION AT STAIR
3/4" = 1'-0"



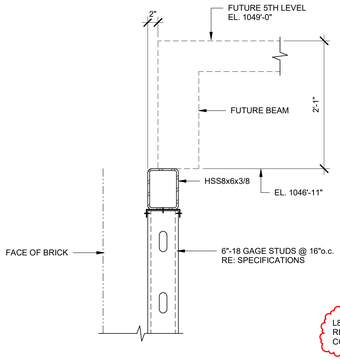
9 SECTION AT STAIR
3/4" = 1'-0"



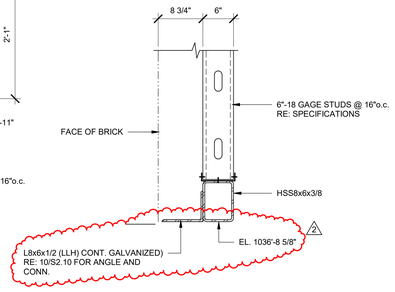
8 SECTION AT ELEVATOR
3/4" = 1'-0"



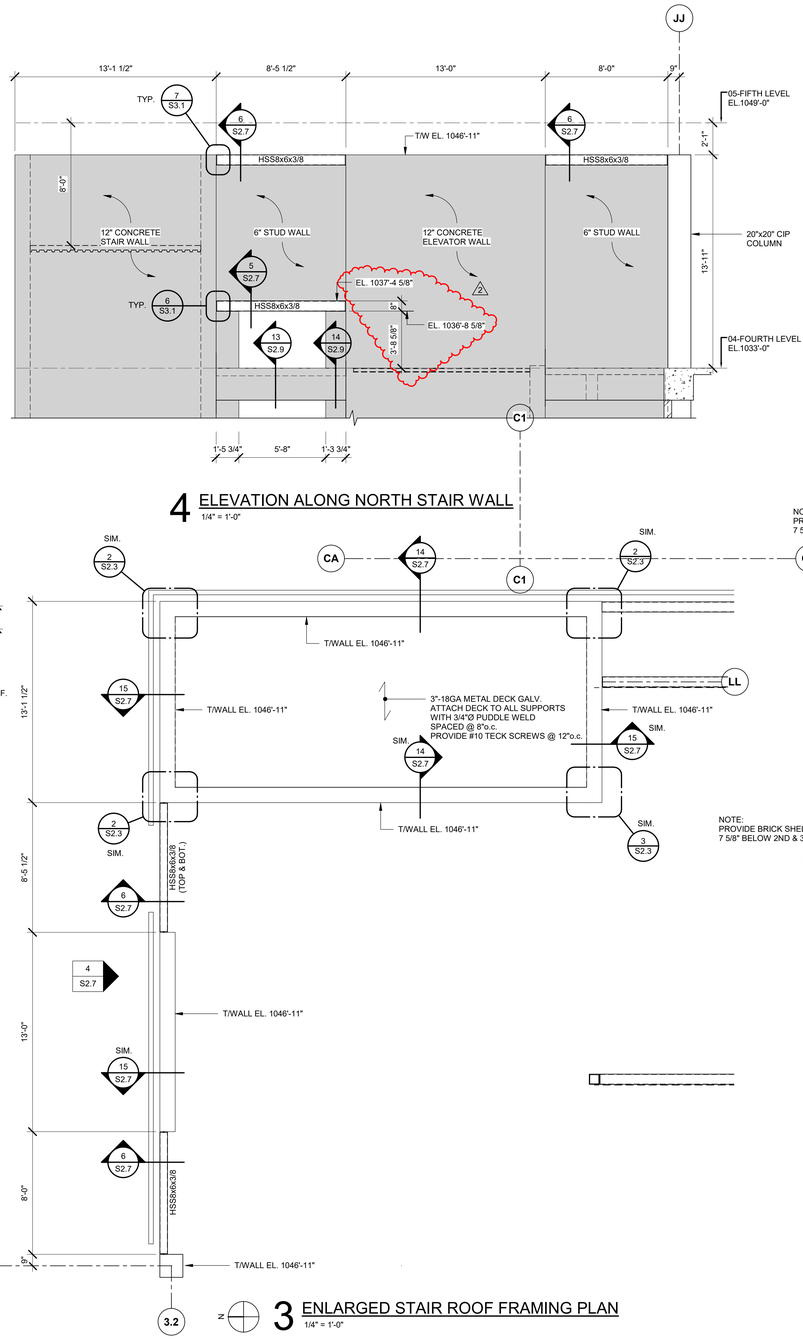
7 SECTION AT ELEVATOR
3/4" = 1'-0"



6 SECTION AT EXTERIOR WALL
1" = 1'-0"

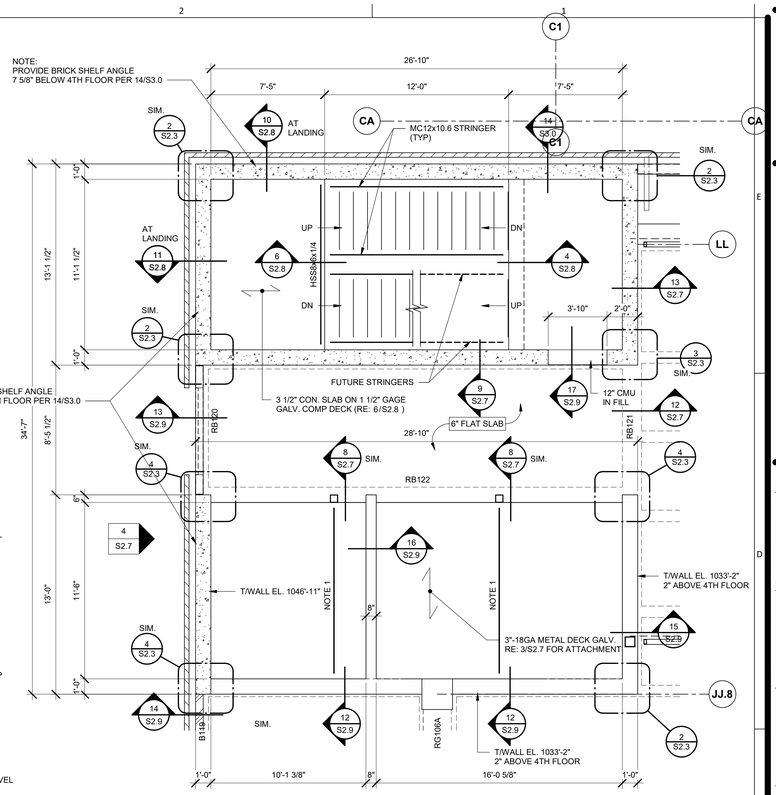


5 SECTION AT EXTERIOR WALL
1" = 1'-0"



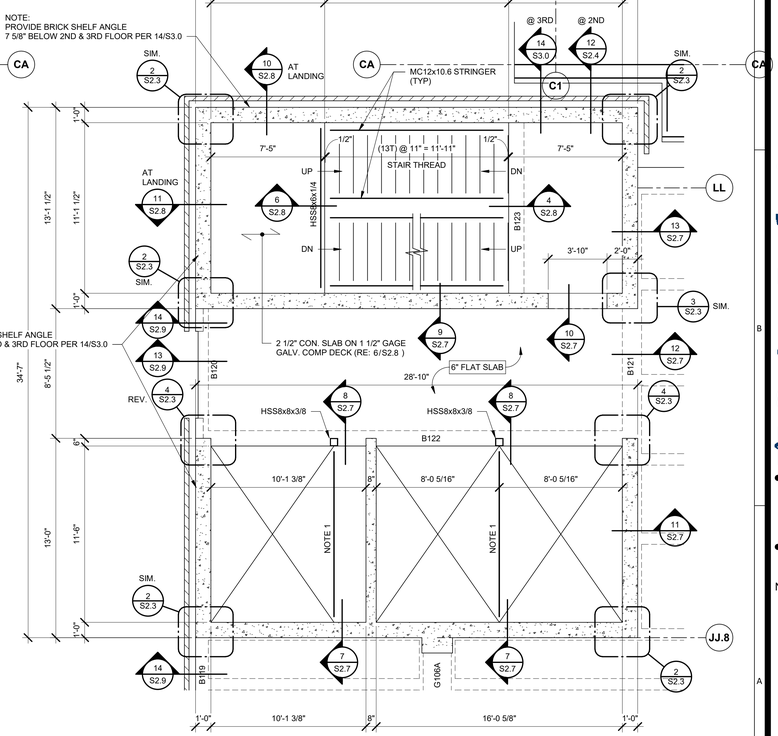
4 ELEVATION ALONG NORTH STAIR WALL
1/4" = 1'-0"

3 ENLARGED STAIR ROOF FRAMING PLAN
1/4" = 1'-0"



NOTE:
1. S8x18.4 DIVIDER BEAM AT FLOOR AND MID LEVEL. RE: SUPPLIER FOR ELEVATION

2 ENLARGED STAIR/ELEVATOR PLAN
1/4" = 1'-0"



NOTE:
1. S8x18.4 DIVIDER BEAM AT FLOOR AND MID LEVEL. RE: SUPPLIER FOR ELEVATION

1 ENLARGED STAIR/ELEVATOR PLAN
1/4" = 1'-0" SECOND AND THIRD LEVEL EL. 1001'-0" AND 1017'-0"

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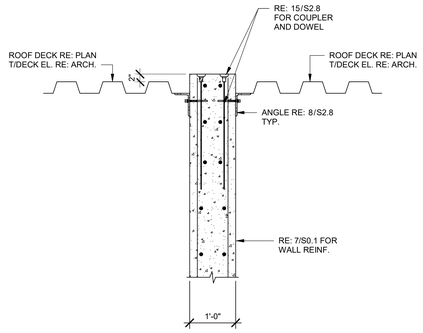
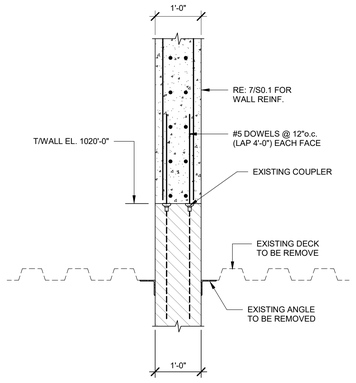
GRADING, FOOTING, AND FOUNDATION PACKAGE

S2.7

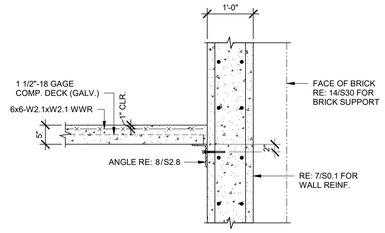
ENLARGED STAIR/ELEVATOR
PLANS AND DETAILS



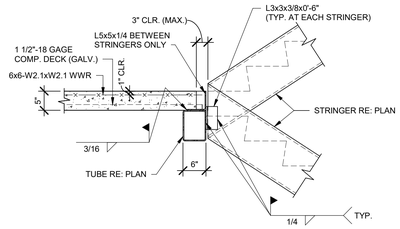
18 SECTION AT INTERIOR WALL
3/4" = 1'-0"



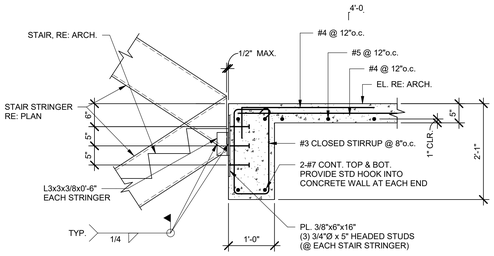
14 SECTION AT INTERIOR WALL
3/4" = 1'-0"



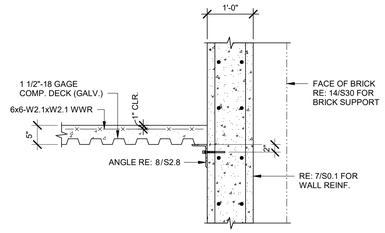
11 SECTION AT STAIR LANDING
3/4" = 1'-0"



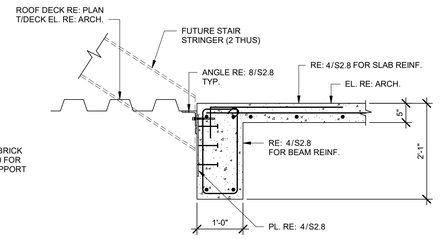
6 SECTION AT STAIR LANDING
3/4" = 1'-0"



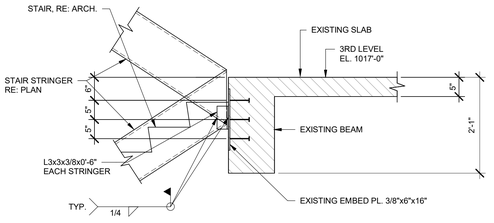
4 SECTION AT STAIR LANDING
3/4" = 1'-0"



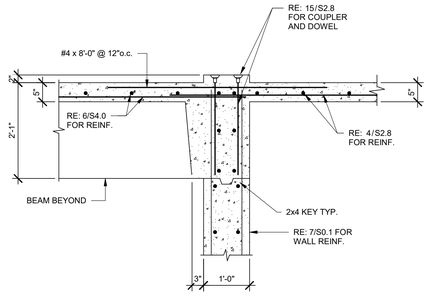
10 SECTION AT STAIR LANDING
3/4" = 1'-0"



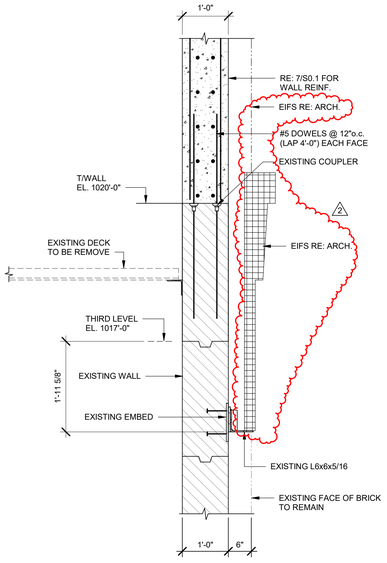
5 SECTION AT STAIR LANDING
3/4" = 1'-0"



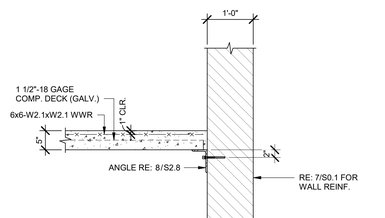
3 SECTION AT STAIR LANDING
3/4" = 1'-0"



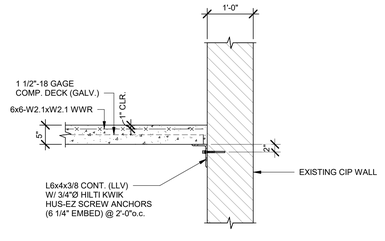
17 SECTION AT INTERIOR WALL
3/4" = 1'-0"



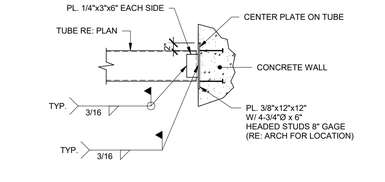
13 PLAN SECTION AT EXTERIOR WALL
3/4" = 1'-0"



9 SECTION AT STAIR LANDING
3/4" = 1'-0"



8 SECTION AT STAIR LANDING
3/4" = 1'-0"



7 SECTION AT STAIR LANDING
3/4" = 1'-0"

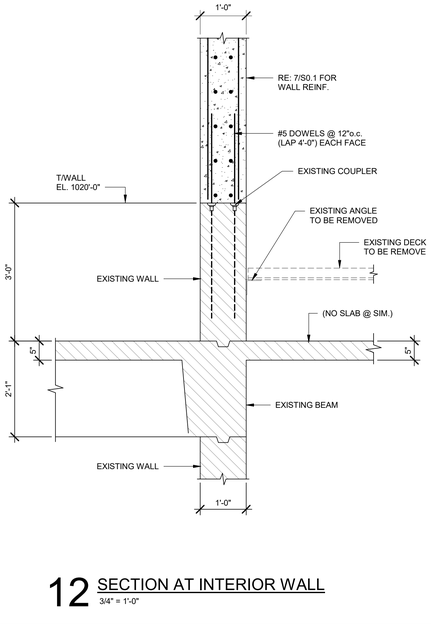
NOTE:
1. S8x18.4 DIVIDER BEAM AT FLOOR AND MID LEVEL. RE: SUPPLIER FOR ELEVATION

N 2 ENLARGED STAIR/ELEVATOR PLAN
1/4" = 1'-0"
FOURTH/ROOF FLOOR LEVEL EL. 1033'-0"

NOTE:
1. S8x18.4 DIVIDER BEAM AT FLOOR AND MID LEVEL. RE: SUPPLIER FOR ELEVATION

N 1 ENLARGED STAIR/ELEVATOR PLAN
1/4" = 1'-0"
THIRD FLOOR LEVEL EL. 1017'-0"

15 SECTION AT INTERIOR WALL
3/4" = 1'-0"



12 SECTION AT INTERIOR WALL
3/4" = 1'-0"

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GRADING, FOOTING, AND FOUNDATION PACKAGE

S2.8

ENLARGED STAIR/ELEVATOR PLANS AND DETAILS

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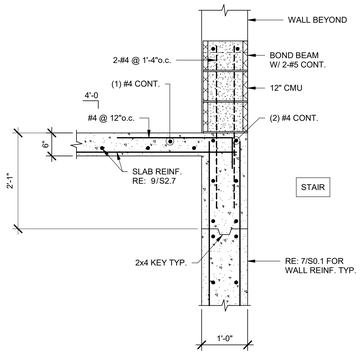
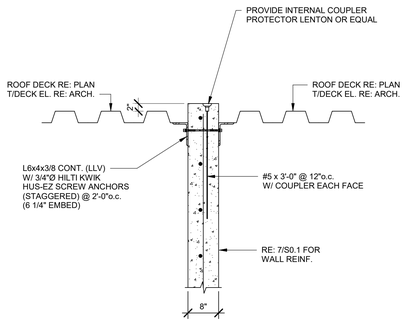
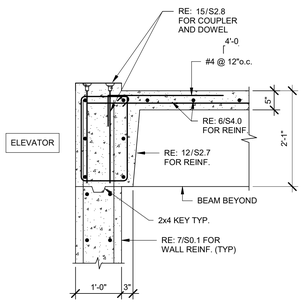


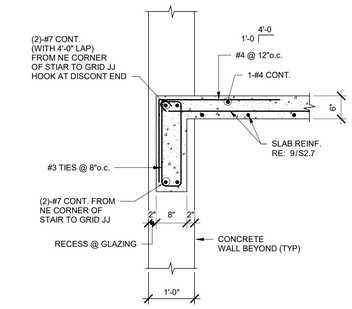
17 SECTION AT STAIR
3/4" = 1'-0"



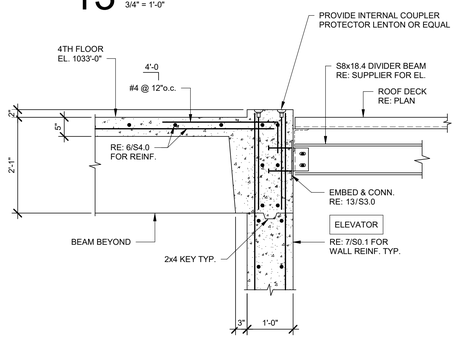
16 SECTION AT INTERIOR WALL
3/4" = 1'-0"



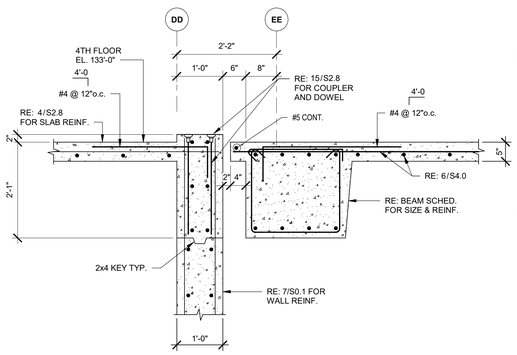
15 SECTION AT INTERIOR WALL
3/4" = 1'-0"



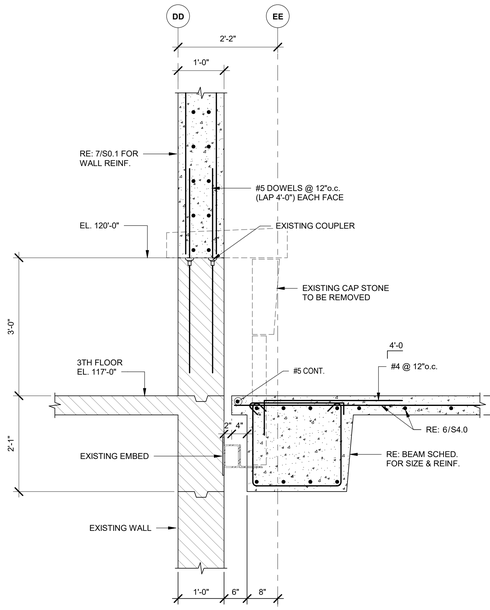
13 SECTION AT ELEVATOR LOBBY
3/4" = 1'-0"



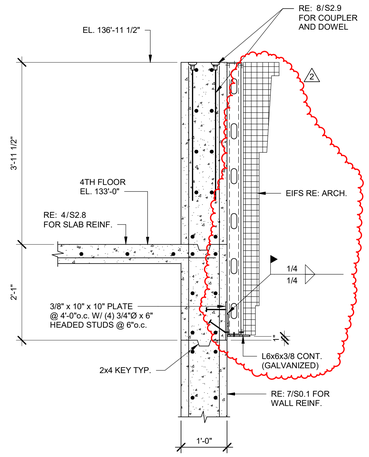
12 SECTION AT ELEVATOR
3/4" = 1'-0"



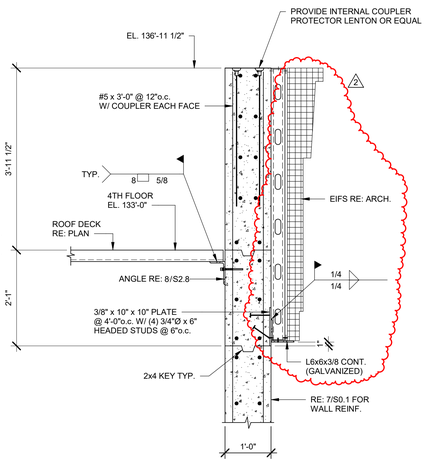
11 SECTION AT INTERIOR WALL
3/4" = 1'-0"



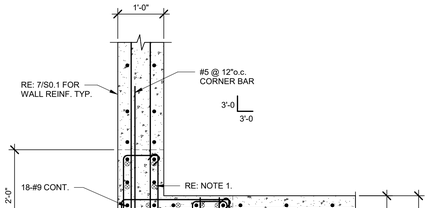
10 SECTION AT INTERIOR WALL
3/4" = 1'-0"



9 SECTION AT STAIR/ELEVATOR WALL
3/4" = 1'-0"



8 SECTION AT STAIR/ELEVATOR WALL
3/4" = 1'-0"

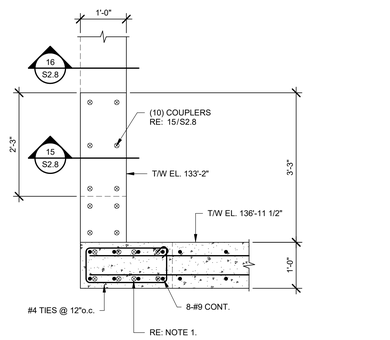


NOTES:
1. TOP OF WALL: PROVIDE REINF. COUPLERS FOR FUTURE EXPANSION. MATCH REINF. SIZE AND QUANTITY WITH COLUMN VERTICAL. (RE: 5/S2.6). 2

7 PLAN SECTION AT INTERIOR WALL
3/4" = 1'-0"

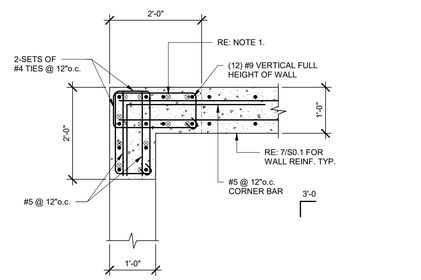
NOTES:
1. TOP OF WALL: PROVIDE REINF. COUPLERS FOR FUTURE EXPANSION. MATCH REINF. SIZE AND QUANTITY WITH COLUMN VERTICAL. (RE: 5/S2.6). 2

6 PLAN SECTION AT INTERIOR WALL
3/4" = 1'-0"



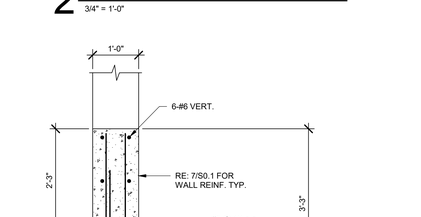
NOTES:
1. TOP OF WALL: PROVIDE REINF. COUPLERS FOR FUTURE EXPANSION. MATCH REINF. SIZE AND QUANTITY WITH COLUMN VERTICAL. (RE: 5/S2.6). 2

5 PLAN SECTION AT INTERIOR WALL
3/4" = 1'-0"



NOTES:
1. TOP OF WALL: PROVIDE REINF. COUPLERS FOR FUTURE EXPANSION. MATCH REINF. SIZE AND QUANTITY WITH COLUMN VERTICAL. (RE: 5/S2.6). 2
2. EXTEND DOWELS INTO PIERS AT FOUNDATION. MATCH SIZE AND QUANTITY WITH VERTICAL REINF. RE: 1/S2.6. FOR REQUIRED LAP LENGTH.

4 PLAN SECTION AT INTERIOR WALL
3/4" = 1'-0"



NOTES:
1. TOP OF WALL: PROVIDE REINF. COUPLERS FOR FUTURE EXPANSION. MATCH REINF. SIZE AND QUANTITY WITH COLUMN VERTICAL. (RE: 5/S2.6). 2

3 PLAN SECTION AT INTERIOR WALL
3/4" = 1'-0"

NOTES:
1. TOP OF WALL: PROVIDE REINF. COUPLERS FOR FUTURE EXPANSION. MATCH REINF. SIZE AND QUANTITY WITH COLUMN VERTICAL. (RE: 5/S2.6). 2

2 PLAN SECTION AT INTERIOR WALL
3/4" = 1'-0"

NOTES:
1. TOP OF WALL: PROVIDE REINF. COUPLERS FOR FUTURE EXPANSION. MATCH REINF. SIZE AND QUANTITY WITH COLUMN VERTICAL. (RE: 5/S2.6). 2

1 PLAN SECTION AT INTERIOR WALL
3/4" = 1'-0"

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GRADING, FOOTING, AND FOUNDATION PACKAGE

S2.9

WALL SECTIONS

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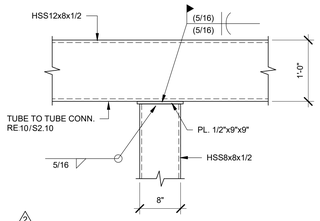
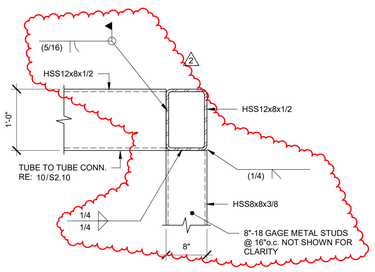
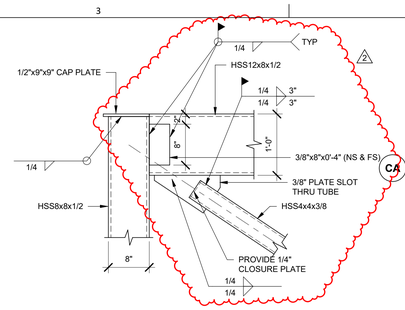


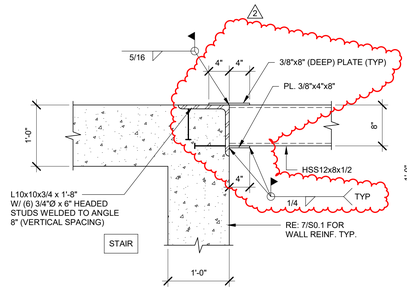
13 TUBE TO TUBE CONN.
1" = 1'-0"



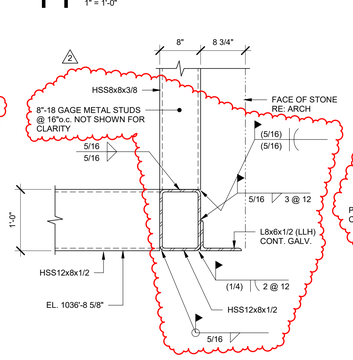
11 TUBE TO TUBE CONN.
1" = 1'-0"



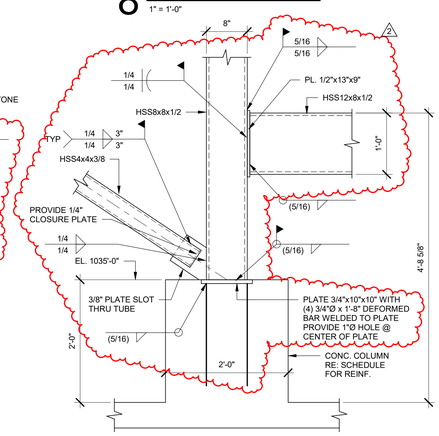
8 TUBE TO TUBE CONN.
1" = 1'-0"



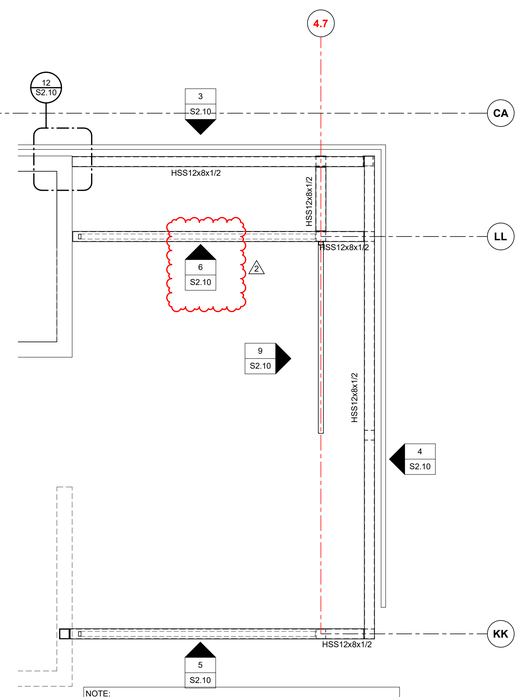
12 TUBE TO CONC-WALL CONN.
1" = 1'-0" PLAN VIEW



10 TUBE TO TUBE CONN.
1" = 1'-0"

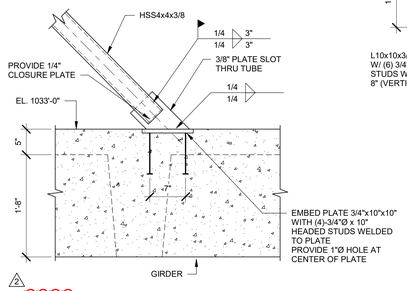


7 TUBE BASE DETAIL
1" = 1'-0"

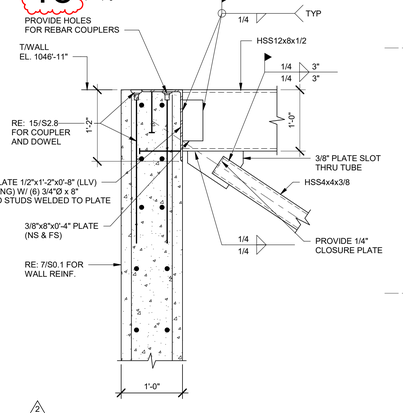


NOTE:
1. ALL STRUCTURAL STEEL INCLUDING EMBED PLATES FOR THE SCREEN WALL FRAMING SHALL BE HOP-DIP GALVANIZED.
2. PROVIDE 1/4" THICK CLOSURE PLATE TO END OF ALL EXPOSED TUBES.
3. PROVIDE 1/2"Ø DRAIN HOLE AT THE BOTTOM FACE OF ALL HORIZONTAL AND DIAGONAL BRACING.

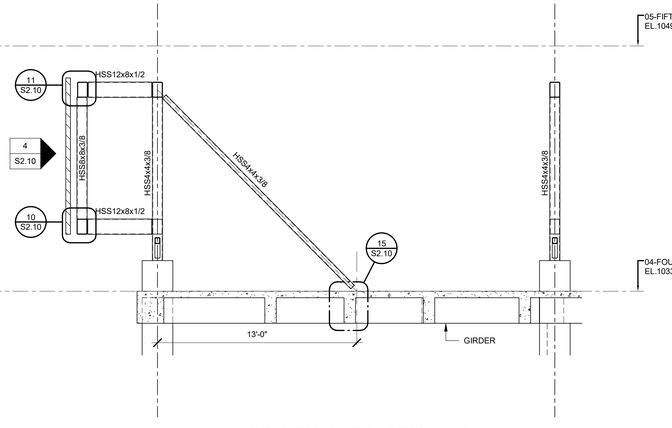
N 2 UPPER SCREEN WALL FRAMING
1/4" = 1'-0"



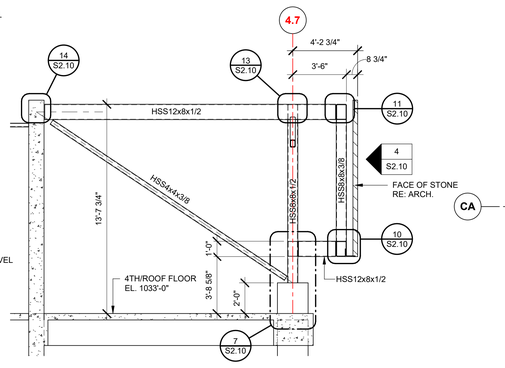
15 DIAGONAL BRACING BASE CONN.
1" = 1'-0"



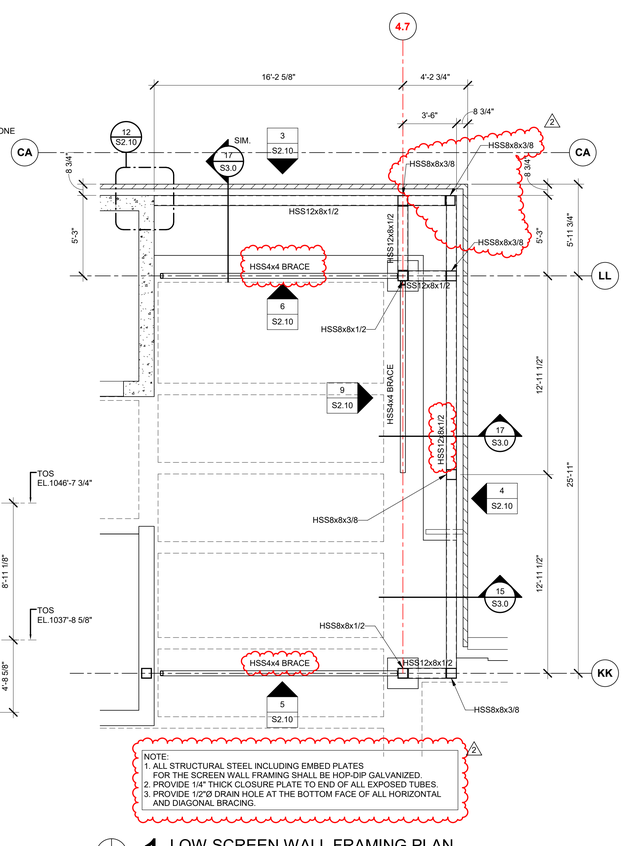
14 TUBE TO WALL CONN.
1" = 1'-0"



9 ELEVATION AT SCREEN WALL
1/4" = 1'-0"

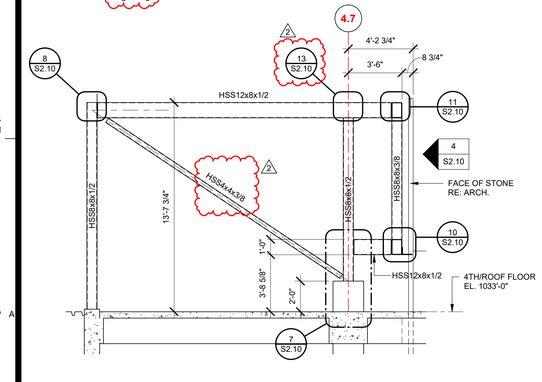


6 ELEVATION AT SCREEN WALL
1/4" = 1'-0"

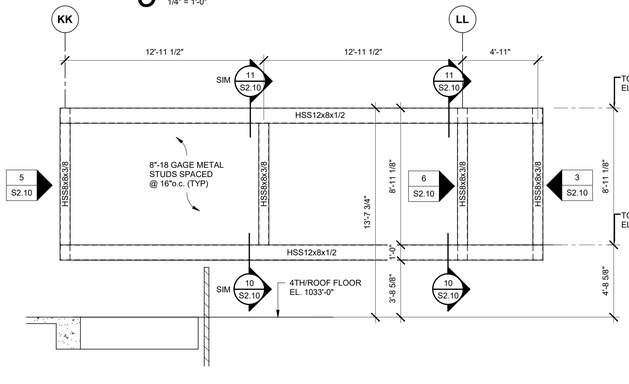


NOTE:
1. ALL STRUCTURAL STEEL INCLUDING EMBED PLATES FOR THE SCREEN WALL FRAMING SHALL BE HOP-DIP GALVANIZED.
2. PROVIDE 1/4" THICK CLOSURE PLATE TO END OF ALL EXPOSED TUBES.
3. PROVIDE 1/2"Ø DRAIN HOLE AT THE BOTTOM FACE OF ALL HORIZONTAL AND DIAGONAL BRACING.

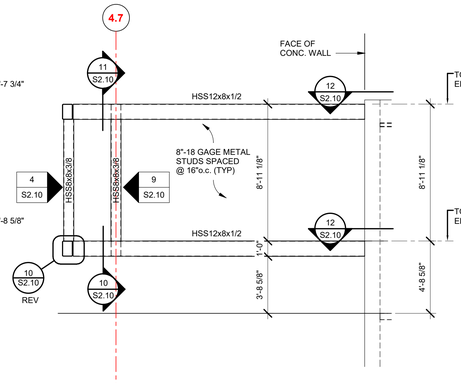
N 1 LOW SCREEN WALL FRAMING PLAN
1/4" = 1'-0"



5 ELEVATION AT SCREEN WALL
1/4" = 1'-0"



4 ELEVATION AT SCREEN WALL
1/4" = 1'-0"



3 ELEVATION AT SCREEN WALL
1/4" = 1'-0"

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CONSTRUCTION DOCUMENTS

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Date	02/07/2023
Job Number	3-21037
Drawn By	Author
Checked By	Checker

Revision

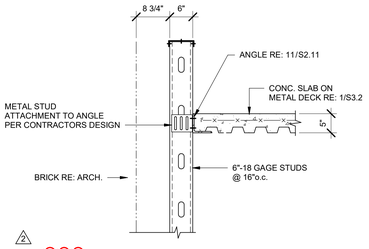
Number	Date	Description
2	02-10-23	ADDENDUM #2

GRADING, FOOTING, AND FOUNDATION PACKAGE

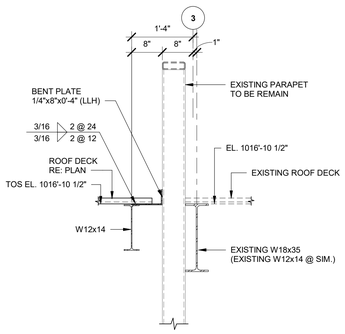
S2.10

CANTILEVER SCREEN WALL PLANS AND DETAILS

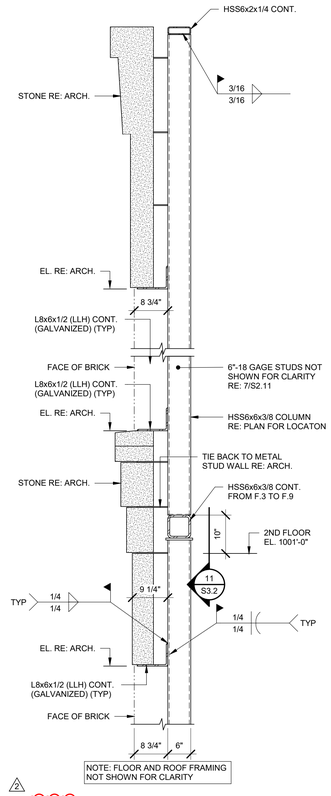
2/10/2023 5:01:56 PM C:\Users\gbriscoe\Documents\XX-2022011-R21_djfoxx.rvt



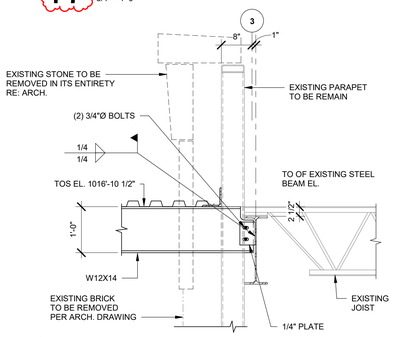
2 **20** SECTION @ STAIR LANDINGS
3/4" = 1'-0"



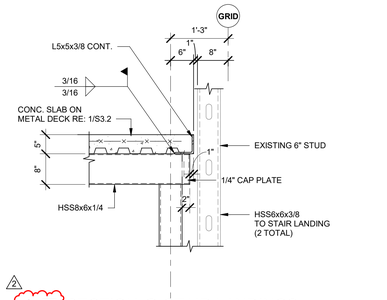
2 **17** SECTION AT ROOF
3/4" = 1'-0"



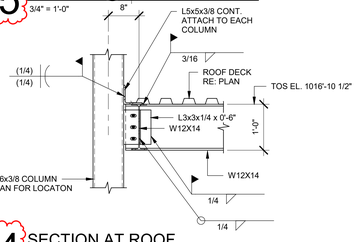
2 **19** BRICK SUPPORT DETAIL
3/4" = 1'-0"



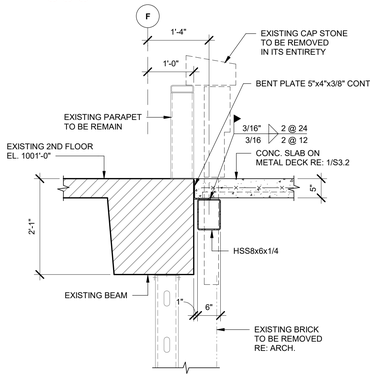
2 **16** SECTION AT ROOF
3/4" = 1'-0"



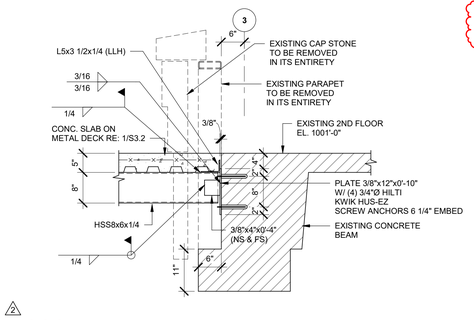
2 **15** SECTION @ STAIR LANDINGS
3/4" = 1'-0"



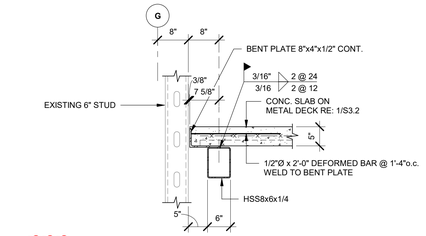
2 **14** SECTION AT ROOF
3/4" = 1'-0"



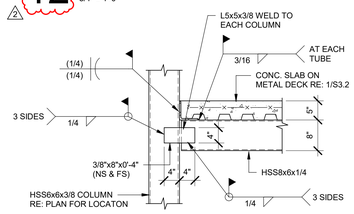
2 **18** SECTION @ STAIR LANDINGS
3/4" = 1'-0"



2 **13** SECTION @ STAIR LANDINGS
3/4" = 1'-0"

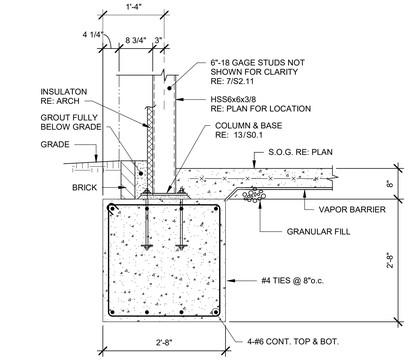


2 **12** SECTION @ STAIR LANDINGS
3/4" = 1'-0"

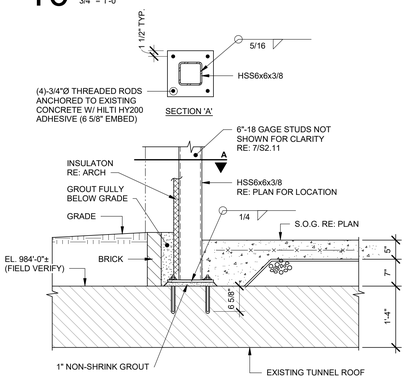


NOTE: ATTACH METAL STUDS TO DECK EDGE ANGLE

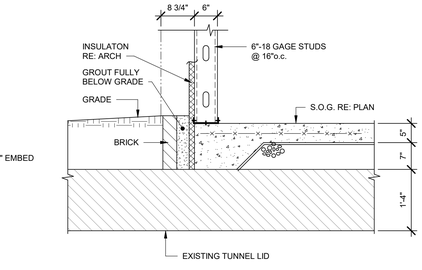
2 **11** SECTION @ STAIR LANDINGS
3/4" = 1'-0"



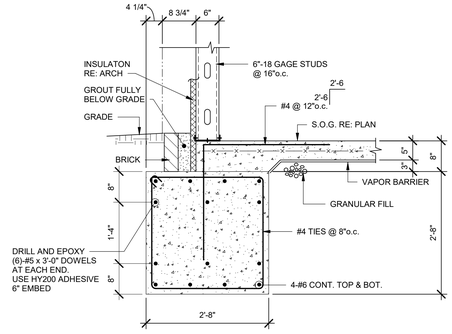
2 **10** COLUMN BASE CONN.
3/4" = 1'-0"



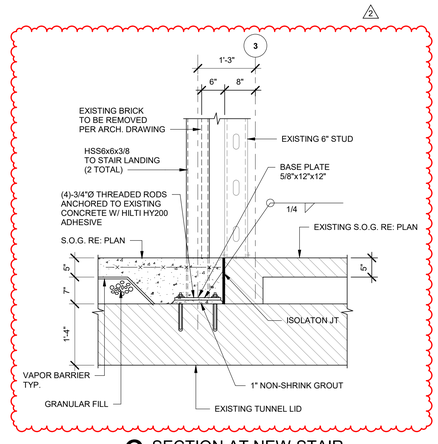
2 **9** COLUMN BASE CONN. @ EXISTING TUNNEL
3/4" = 1'-0"



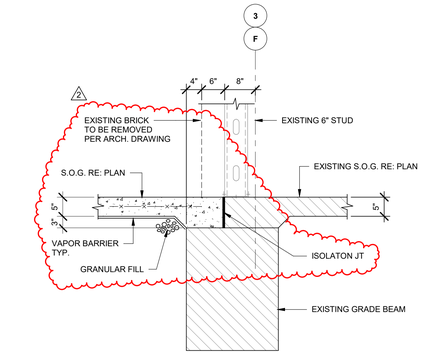
8 SECTION AT NEW STAIR
3/4" = 1'-0"



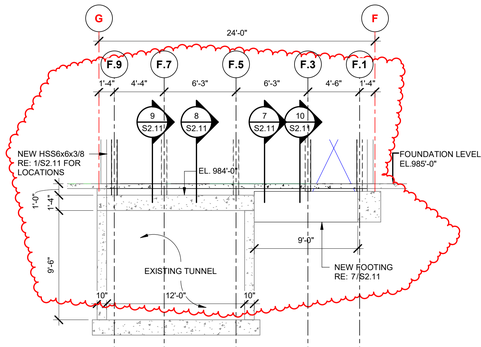
7 SECTION AT NEW STAIR
3/4" = 1'-0"



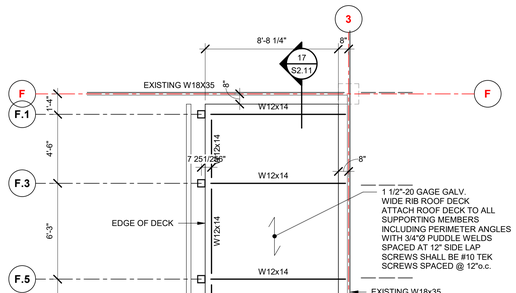
6 SECTION AT NEW STAIR
3/4" = 1'-0"



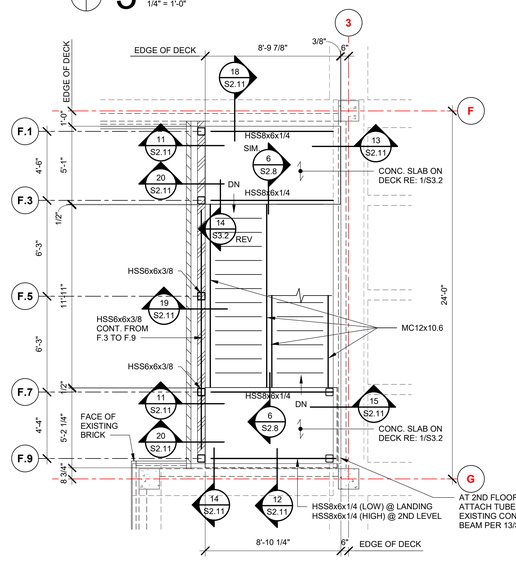
5 SECTION @ NEW STAIR
3/4" = 1'-0"



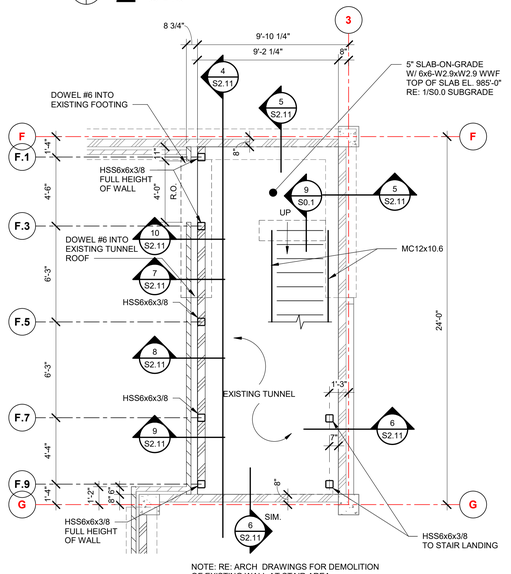
4 SECTION AT NEW STAIR
3/16" = 1'-0"



N **3** ROOF (3RD LEVEL) FRAMING PLAN
1/4" = 1'-0"



N **2** SECOND LEVEL FRAMING PLAN
1/4" = 1'-0"



NOTE: RE: ARCH DRAWINGS FOR DEMOLITION OF EXISTING WALL AT STAIR AREA

N **1** ENLARGED STAIR PLAN
1/4" = 1'-0"

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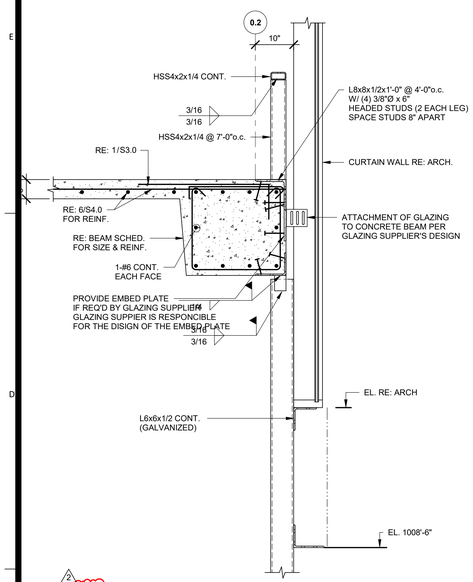
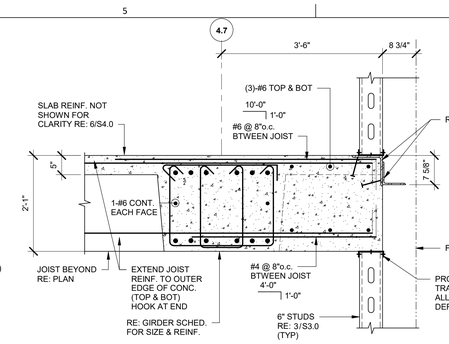
2	02-10-23	ADDENDUM #2

GRADING, FOOTING, AND FOUNDATION PLANS
2 **S2.11**

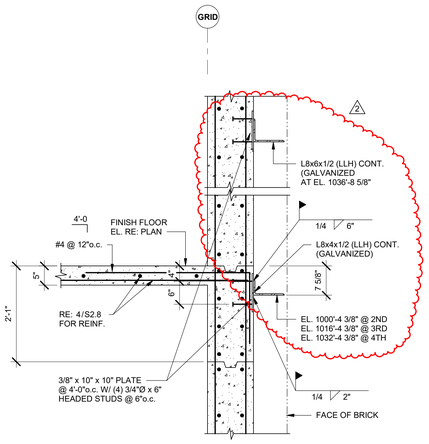
ENLARGED STAIR PLANS AND DETAILS



18 SECTION AT GLAZING
3/4" = 1'-0"

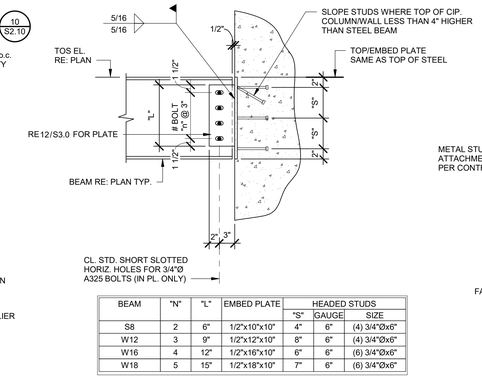


15 SECTION AT FLOOR BRICK WALL
3/4" = 1'-0"



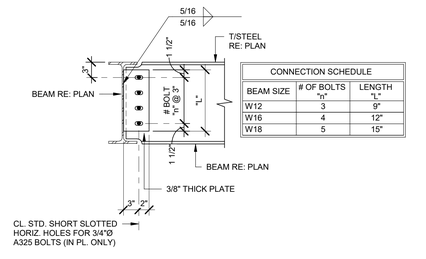
14 SECTION AT FLOOR FRAMING
3/4" = 1'-0"

17 SECTION AT GLAZING
3/4" = 1'-0"



BEAM	"N"	"L"	EMBED PLATE	HEADED STUDS		
				"S"	GAUGE	SIZE
S8	2	6"	1/2"x10"x10"	4"	6"	(4) 3/4"Øx6"
W12	3	9"	1/2"x12"x10"	8"	6"	(4) 3/4"Øx6"
W16	4	12"	1/2"x16"x10"	6"	6"	(6) 3/4"Øx6"
W18	5	15"	1/2"x18"x10"	7"	6"	(6) 3/4"Øx6"

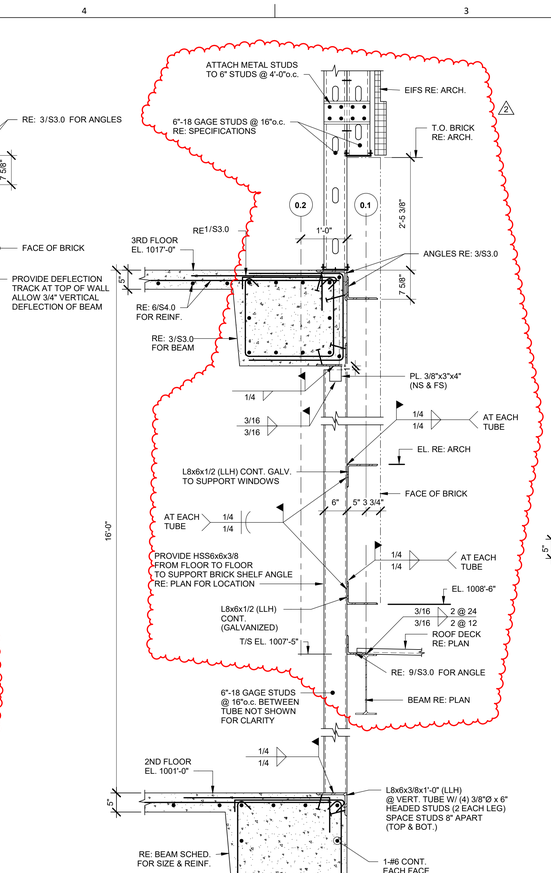
13 TYP. BEAM CONNECTION AT CONCRETE WALL
1" = 1'-0"



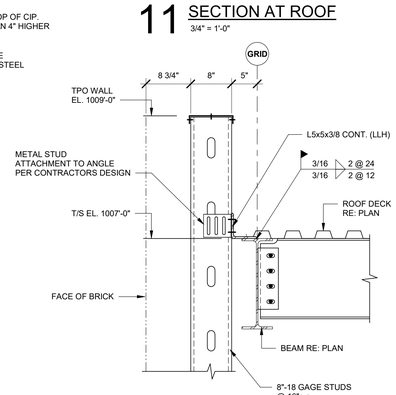
16 SECTION AT FLOOR BRICK WALL
3/4" = 1'-0"

CONNECTION SCHEDULE		
BEAM SIZE	# OF BOLTS "n"	LENGTH "L"
W12	3	9"
W16	4	12"
W18	5	15"

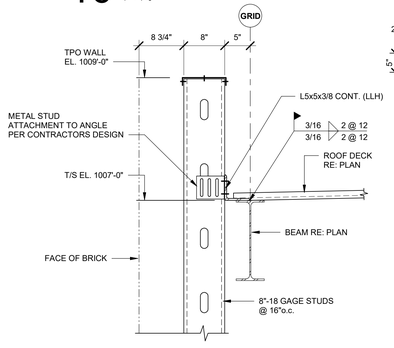
12 TYP. BEAM TO BEAM CONNECTION
1" = 1'-0"



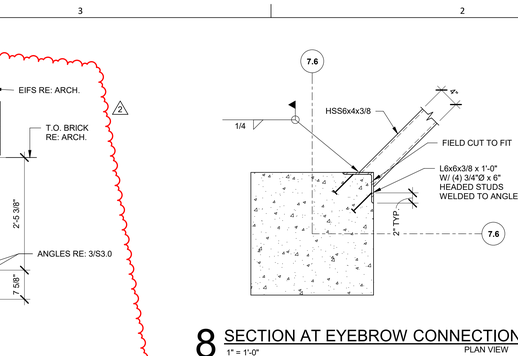
11 SECTION AT ROOF
3/4" = 1'-0"



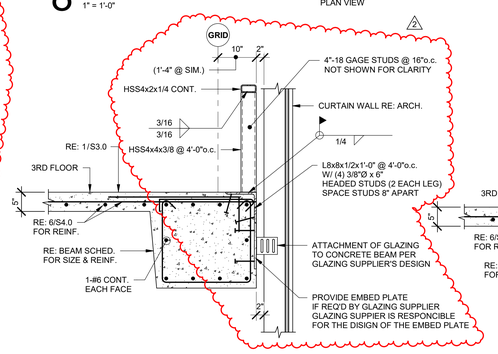
10 SECTION AT ROOF
1" = 1'-0"



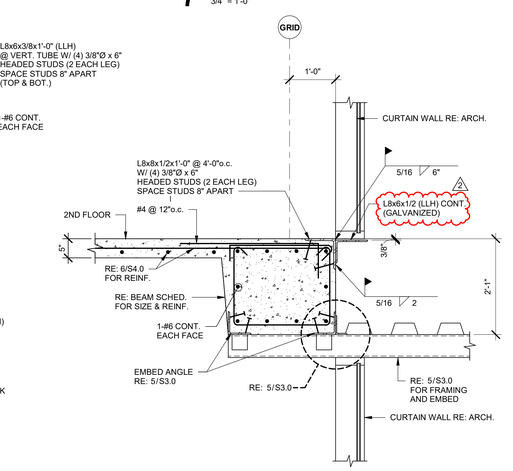
9 SECTION AT ROOF
1" = 1'-0"



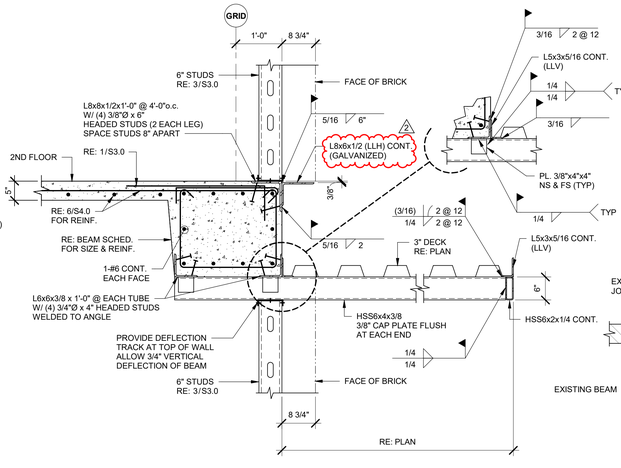
8 SECTION AT EYEBROW CONNECTION
1" = 1'-0"



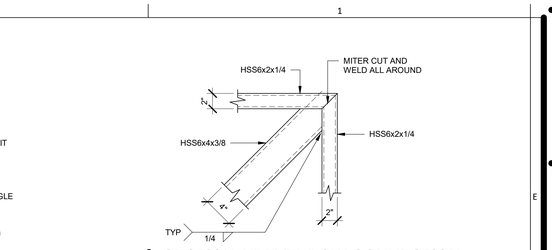
7 SECTION AT GLAZING
3/4" = 1'-0"



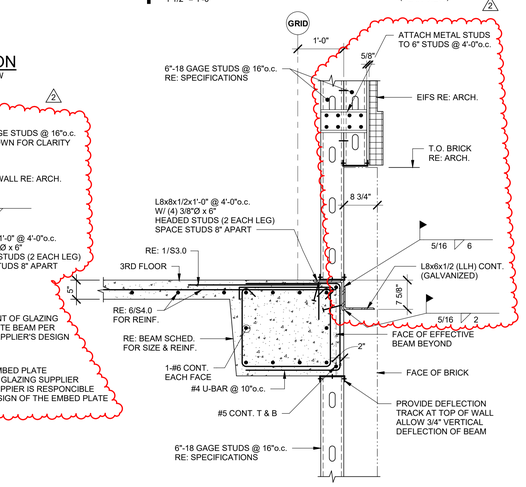
6 SECTION AT FLOOR FRAMING
3/4" = 1'-0"



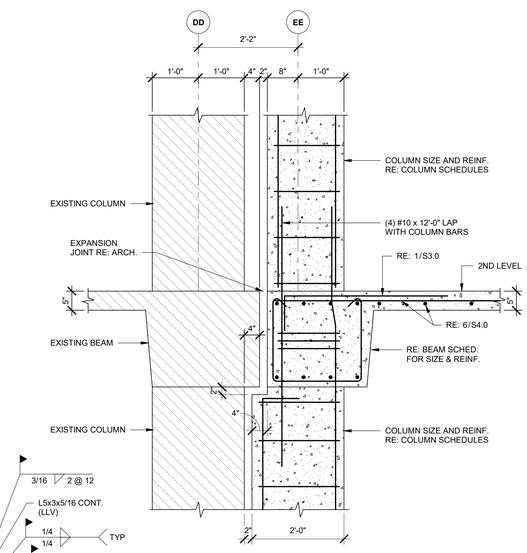
5 SECTION AT FLOOR FRAMING
3/4" = 1'-0"



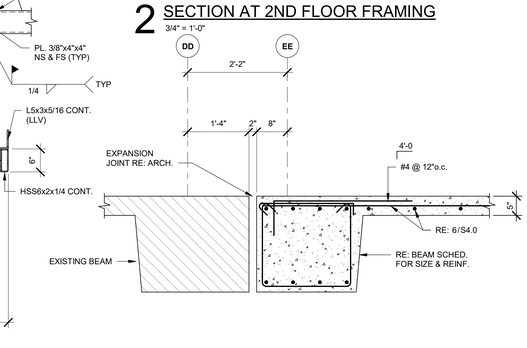
4 SECTION AT EYEBROW CONNECTION
1 1/2" = 1'-0"



3 SECTION AT BRICK WALL
3/4" = 1'-0"



2 SECTION AT 2ND FLOOR FRAMING
3/4" = 1'-0"



1 SECTION AT EXPANSION JT
3/4" = 1'-0"

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CONSTRUCTION DOCUMENTS

Saint Luke's EAST HOSPITAL
ASC EXPANSION & RENOVATION
100 NE Saint Luke's Blvd
Lee's Summit, MO 64086

Date	02/07/2023
Job Number	3-21037
Drawn By	GEB
Checked By	KGS

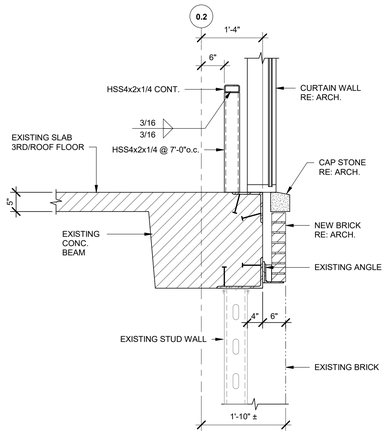
Revision

Number	Date	Description
2	02-10-23	ADDENDUM #2

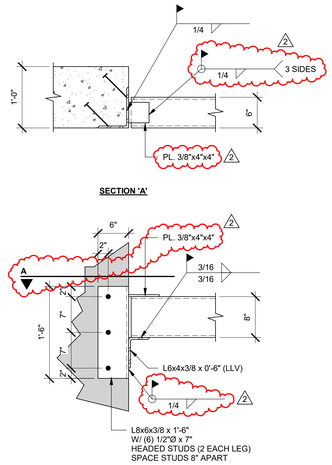
GRADING, FOOTING, AND FOUNDATION PACKAGE

S3.0

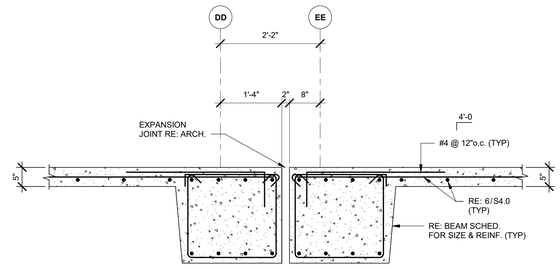
FRAMING DETAILS



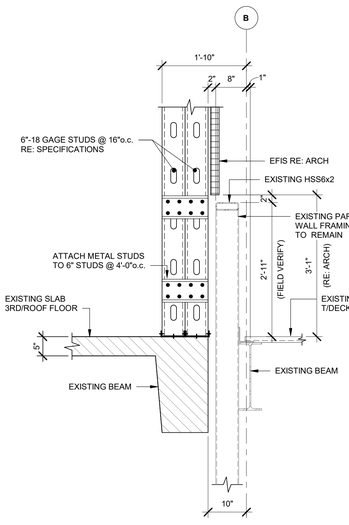
9 SECTION AT EXISTING 3RD FLOOR
3/4" = 1'-0"



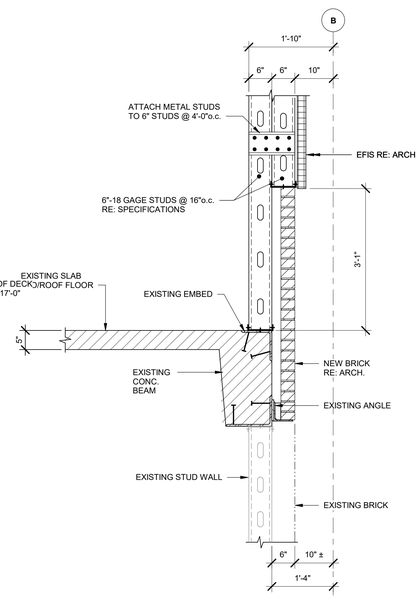
6 TUBE CONN. TO CONCRETE WALL
1" = 1'-0"



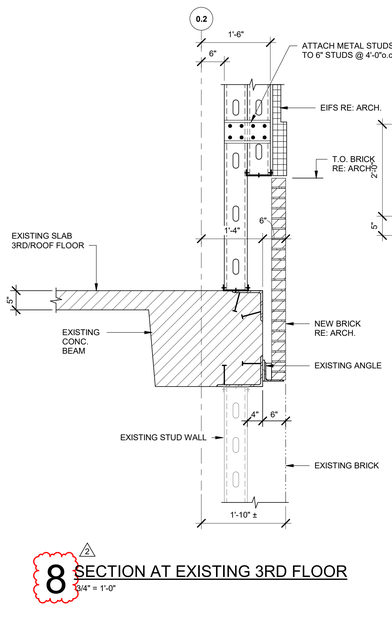
3 SECTION AT ROOF
3/4" = 1'-0"



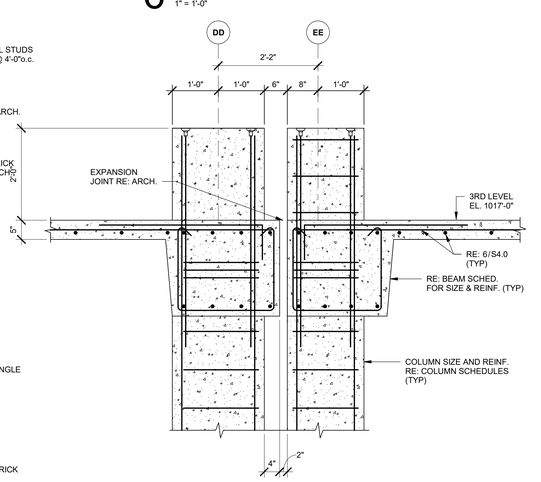
13 SECTION AT BRICK WALL
3/4" = 1'-0"



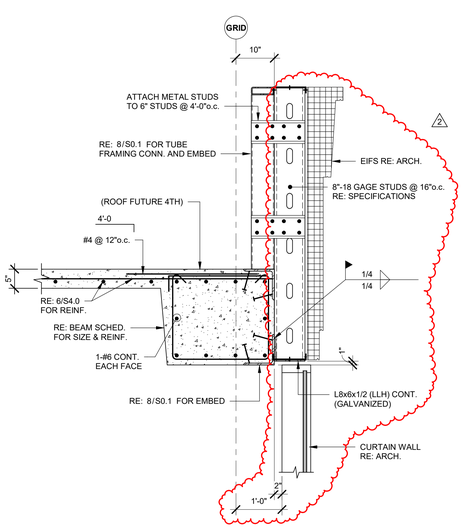
11 SECTION AT BRICK WALL
3/4" = 1'-0"



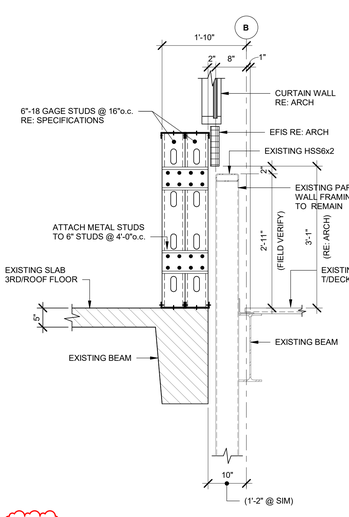
8 SECTION AT EXISTING 3RD FLOOR
3/4" = 1'-0"



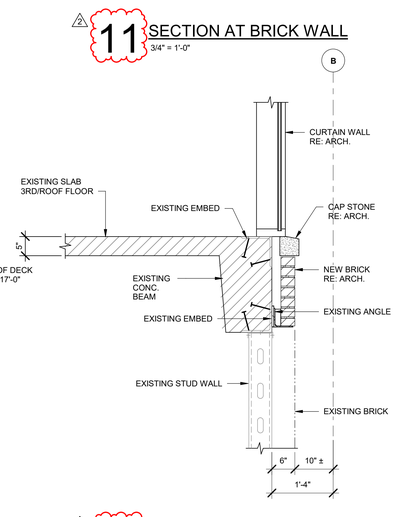
5 SECTION AT 4TH/ROOF FLOOR FRAMING
3/4" = 1'-0"



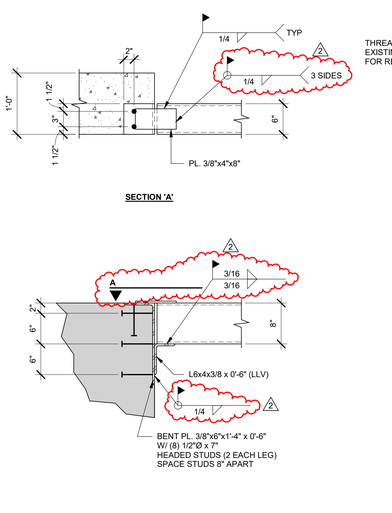
2 SECTION AT EXTERIOR WALL
3/4" = 1'-0"



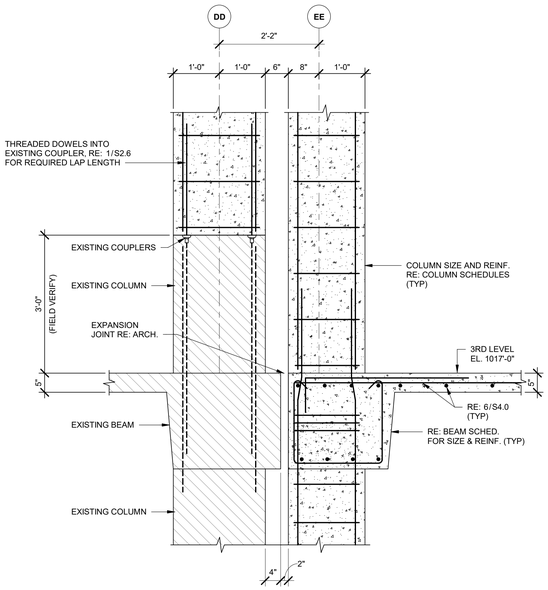
12 SECTION AT WINDOW
3/4" = 1'-0"



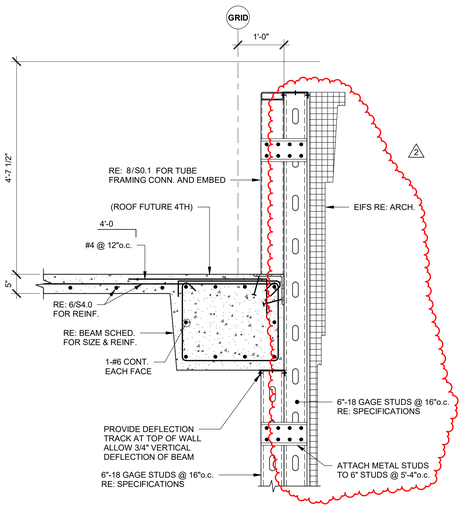
10 SECTION AT WINDOW
3/4" = 1'-0"



7 SECTION AT EXTERIOR WALL
1" = 1'-0"



4 SECTION AT 3RD FLOOR FRAMING
3/4" = 1'-0"



1 SECTION AT EXTERIOR WALL
3/4" = 1'-0"

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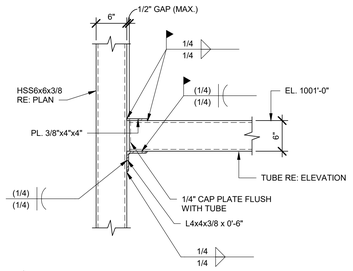
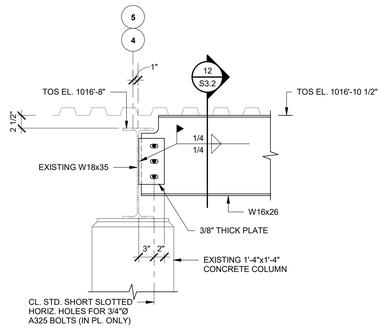
GRADING, FOOTING, AND FOUNDATION PACKAGE

S3.1

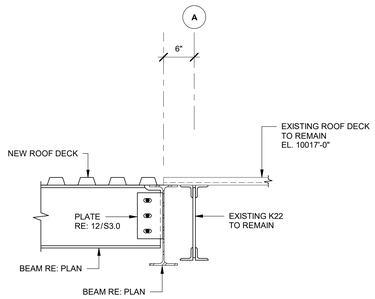
FRAMING DETAILS



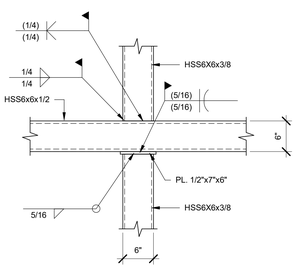
14 TUBE TO TUBE CONN.
1" = 1'-0"



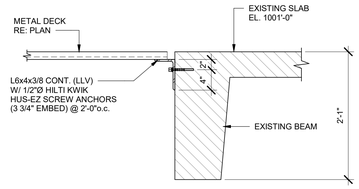
13 NEW BEAM TO EXISTING BEAM
1" = 1'-0"



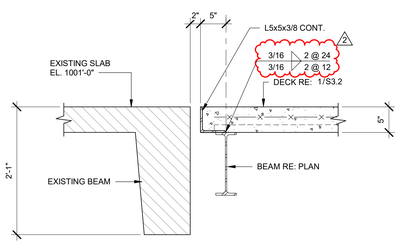
12 SECTION AT STAIR INFILL
1" = 1'-0"



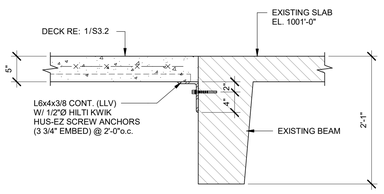
11 COLUMN SPLICE DETAIL (AT GRIDS F.5 AND F.7)
1" = 1'-0"



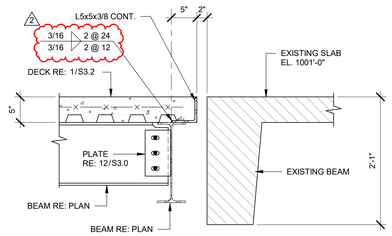
10 SECTION AT STAIR INFILL
1" = 1'-0"



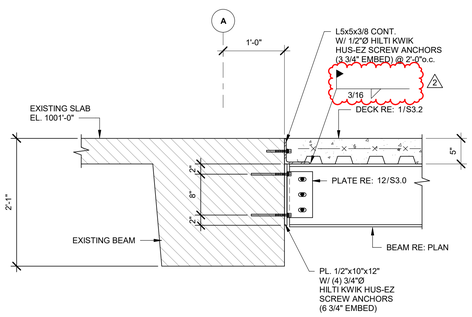
9 SECTION AT STAIR INFILL
1" = 1'-0"



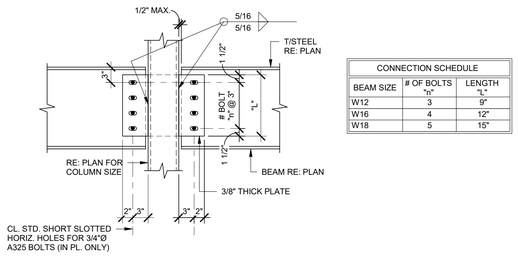
8 SECTION AT STAIR INFILL
1" = 1'-0"



7 SECTION AT STAIR INFILL
1" = 1'-0"

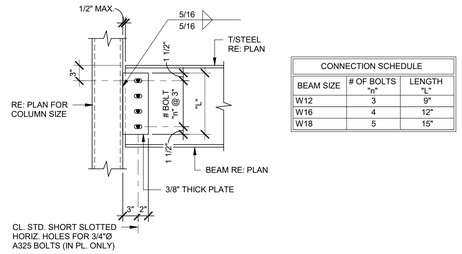


6 SECTION AT STAIR INFILL
1" = 1'-0"



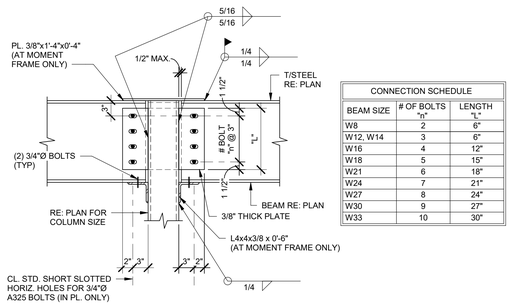
CONNECTION SCHEDULE		
BEAM SIZE	# OF BOLTS "n"	LENGTH "L"
W12	3	9"
W16	4	12"
W18	5	15"

5 TYP. BEAM TO COLUMN CONNECTION
1" = 1'-0"



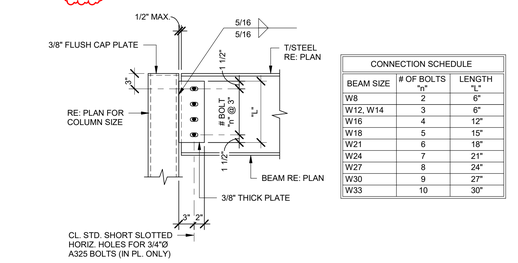
CONNECTION SCHEDULE		
BEAM SIZE	# OF BOLTS "n"	LENGTH "L"
W12	3	9"
W16	4	12"
W18	5	15"

4 TYP. BEAM TO COLUMN CONNECTION
1" = 1'-0"



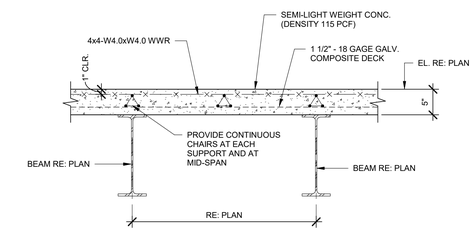
CONNECTION SCHEDULE		
BEAM SIZE	# OF BOLTS "n"	LENGTH "L"
W8	2	6"
W12, W14	3	6"
W16	4	12"
W18	5	15"
W21	6	18"
W24	7	21"
W27	8	24"
W30	9	27"
W33	10	30"

3 TYP. BEAM TO COLUMN CONNECTION (MOMENT FRAME)
1" = 1'-0"



CONNECTION SCHEDULE		
BEAM SIZE	# OF BOLTS "n"	LENGTH "L"
W8	2	6"
W12, W14	3	6"
W16	4	12"
W18	5	15"
W21	6	18"
W24	7	21"
W27	8	24"
W30	9	27"
W33	10	30"

2 TYP. BEAM TO COLUMN CONNECTION
1" = 1'-0"



DECK ATTACHMENT NOTES

1. ATTACH DECK TO ALL SUPPORTS INCLUDING PERIMETER SUPPORTS WITH 3/4"Ø PUDDLE WELDS SPACED AT 8"o.c. (24/4 PATTERN) SIDELAP SCREWS SHALL BE #12 TEK SCREWS SPACED AT 12"o.c.

1 SECTION AT STAIR INFILL
1" = 1'-0"

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PROFESSIONAL ENGINEER
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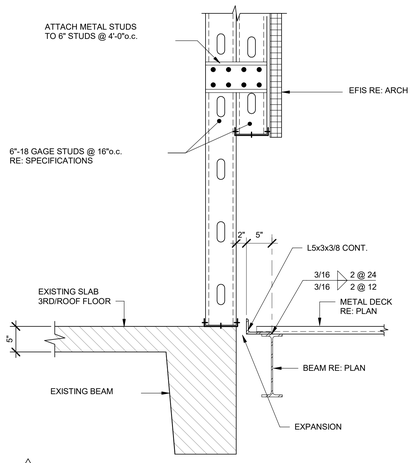
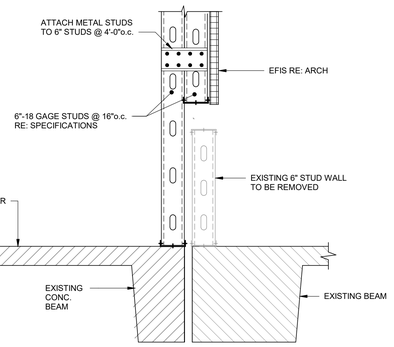
S3.2

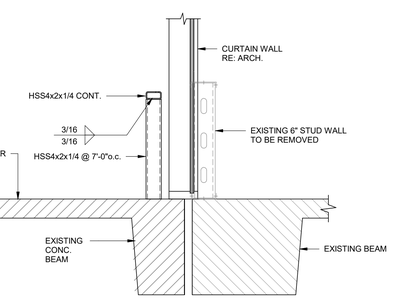
FRAMING DETAILS



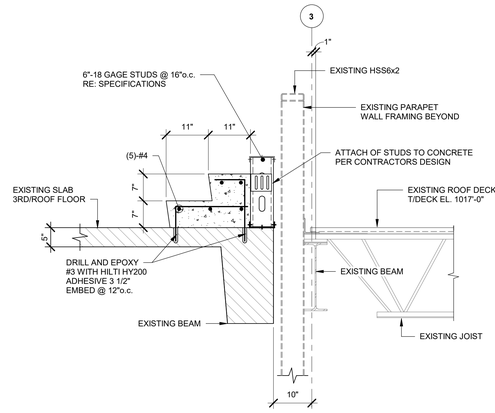
3 SECTION AT STAIR INFILL
1" = 1'-0"



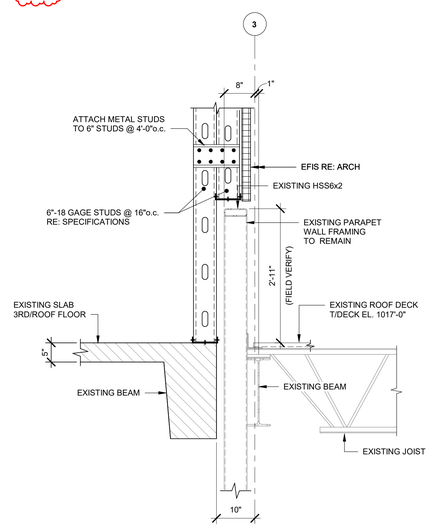
5 SECTION AT 3RD FLOOR
3/4" = 1'-0"



4 SECTION AT FLOOR WINDOW
3/4" = 1'-0"



2 SECTION AT EXISTING 3RD FLOOR
3/4" = 1'-0"



1 SECTION AT EXISTING 3RD FLOOR
3/4" = 1'-0"

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S3.3

FRAMING DETAILS

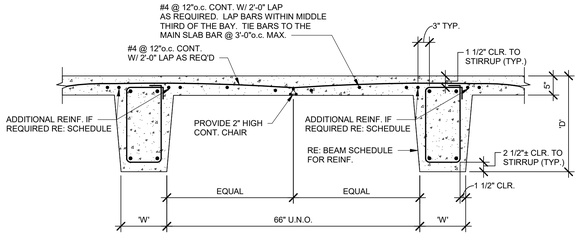
EXISTING BUILDING CONCRETE BEAM SCHEDULE

BEAM MARK	SIZE WIDTH	SIZE DEPTH	REINFORCING LONGITUDINAL REINFORCING	TYPE	STIRRUP CONFIGURATION SPACING EA. END	TYPE	COMMENTS
B1	9"	25"	2 - #7 x 14'-6" Top at Grid 0.2 2 - #9 x 24'-0" Top at Grid 1 2 - #7 x 23'-6" Bottom	D B E	20 - #3 Total 1 at 2"o.c. 9 at 10"o.c.	S5	
B2	9"	25"	2 - #6 x 20'-0" Top at Midspan 2 - #9 x 24'-0" Top at Grid 2.7 2 - #9 x 40'-0" Bottom	B B B	38 - #3 Total 1 at 2"o.c. 18 at 10"o.c.	S5	
B3	9"	25"	2 - #6 x 17'-6" Top at Midspan 2 - #9 x 20'-0" Top at Grid 3.7 2 - #8 x 35'-6" Bottom	B B B	32 - #3 Total 1 at 2"o.c. 15 at 10"o.c.	S5	
B4	9"	25"	2 - #6 x 19'-6" Top at Midspan 2 - #8 x 20'-0" Top at Grid 4.7 2 - #8 x 35'-6" Bottom	B B B	32 - #3 Total 1 at 2"o.c. 15 at 10"o.c.	S5	
B5	9"	25"	2 - #8 x 20'-0" Top at Grid 5.2 2 - #7 x 20'-6" Bottom	B B	14 - #3 Total 1 at 2"o.c. 6 at 10"o.c.	S5	
B6	9"	25"	2 - #6 x 15'-0" Top at Midspan 2 - #8 x 16'-0" Top at Grid 5.9 2 - #7 x 29'-0" Bottom	B B B	24 - #3 Total 1 at 2"o.c. 11 at 10"o.c.	S5	
B7	9"	25"	2 - #7 x 18'-0" Top at Concrete Wall 2 - #7 x 24'-0" Bottom	A C	22 - #3 Total 1 at 2"o.c. 10 at 10"o.c.	S5	
B8			NOT USED				
B9			NOT USED				
B10	9"	25"	2 - #6 x 17'-6" Top at Midspan 2 - #8 x 41'-0" Bottom	B B	32 - #3 Total 1 at 2"o.c. 15 at 10"o.c.	S5	Extend Bottom Bars Into B11
B11	9"	25"	2 - #9 x 20'-0" Top at West End	A	9 - #3 Total 1 at 2"o.c. 8 at 10"o.c.	S5	Stirrups are spaced from Grid 3.7 only
B12			NOT USED				
B13			NOT USED				
B14	28"	25"	4 - #7 x 14'-6" Top at Grid 0.2 4 - #10 x 24'-0" Top at Grid 1 4 - #9 x 24'-0" Bottom	D B E	30 - #4 Total 1 at 2"o.c. 10 at 5"o.c. 4 at 10"o.c.	S3	
B15	28"	25"	4 - #7 x 12'-0" Top at Midspan 4 - #11 x 28'-0" Top at Grid 2.5 2 - #11 x 18'-0" Top at Grid 2.5 4 - #9 x 34'-0" Bottom	B B B B	42 - #4 Total 1 at 2"o.c. 11 at 5"o.c. 9 at 10"o.c.	S3	
B16	28"	25"	4 - #7 x 20'-0" Top at Midspan 5 - #11 x 24'-0" Top at Grid 3.7 4 - #11 x 42'-0" Bottom	B B B	54 - #4 Total 1 at 2"o.c. 14 at 5"o.c. 12 at 10"o.c.	S3	
B17	28"	25"	4 - #7 x 17'-6" Top at Midspan 4 - #10 x 20'-0" Top at Grid 4.7 4 - #9 x 35'-6" Bottom	B B B	42 - #4 Total 1 at 2"o.c. 10 at 5"o.c. 10 at 10"o.c.	S3	
B18	28"	25"	4 - #10 x 20'-0" Top at Grid 5.2 4 - #9 x 20'-6" Bottom	B B	24 - #4 Total 1 at 2"o.c. 10 at 5"o.c. 1 at 10"o.c.	S3	
B19	28"	25"	4 - #7 x 15'-0" Top at Midspan 4 - #10 x 16'-0" Top at Grid 5.9 4 - #9 x 29'-0" Bottom	B B B	34 - #4 Total 1 at 2"o.c. 10 at 5"o.c. 6 at 10"o.c.	S3	
B20	28"	25"	4 - #9 x 16'-6" Top at Concrete Wall 4 - #9 x 22'-6" Bottom	A C	30 - #4 Total 1 at 2"o.c. 10 at 5"o.c. 4 at 10"o.c.	S3	
B21	27"	25"	4 - #8 x 14'-6" Top at Grid 0.2 4 - #9 x 24'-0" Top at Grid 1 4 - #9 x 24'-0" Bottom	D B E	30 - #4 Total 1 at 2"o.c. 10 at 5"o.c. 4 at 10"o.c.	S2	
B22	27"	25"	4 - #7 x 20'-0" Top at Midspan 4 - #9 x 24'-0" Top at Grid 2.7 4 - #9 x 40'-0" Bottom	B B B	48 - #4 Total 1 at 2"o.c. 10 at 5"o.c. 13 at 10"o.c.	S2	
B23	27"	25"	4 - #7 x 17'-6" Top at Midspan 4 - #9 x 20'-0" Top at Grid 3.7 4 - #9 x 35'-6" Bottom	B B B	42 - #4 Total 1 at 2"o.c. 10 at 5"o.c. 10 at 10"o.c.	S2	
B24	27"	25"	4 - #7 x 19'-6" Top at Midspan 4 - #9 x 20'-0" Top at Grid 4.7 4 - #9 x 35'-6" Bottom	B B B	42 - #4 Total 1 at 2"o.c. 10 at 5"o.c. 10 at 10"o.c.	S2	

EXISTING BUILDING CONCRETE BEAM SCHEDULE

BEAM MARK	SIZE WIDTH	SIZE DEPTH	REINFORCING LONGITUDINAL REINFORCING	TYPE	STIRRUP CONFIGURATION SPACING EA. END	TYPE	COMMENTS
B25	27"	25"	4 - #9 x 20'-0" Top at Grid 5.2 4 - #9 x 20'-6" Bottom	B B	24 - #4 Total 1 at 2"o.c. 10 at 5"o.c. 1 at 10"o.c.	S2	
B26	27"	25"	4 - #7 x 15'-0" Top at Midspan 4 - #9 x 16'-0" Top at Grid 5.9 4 - #9 x 29'-0" Bottom	B B B	34 - #4 Total 1 at 2"o.c. 10 at 5"o.c. 6 at 10"o.c.	S2	
B27	27"	25"	4 - #8 x 18'-0" Top at Concrete Wall 4 - #9 x 24'-0" Bottom	A C	32 - #4 Total 1 at 2"o.c. 10 at 5"o.c. 5 at 10"o.c.	S2	
B28			NOT USED				
B29	19"	25"	3 - #7 x 17'-6" Top at Midspan 3 - #10 x 20'-0" Top at Grid 3.7 3 - #9 x 35'-6" Bottom	B B B	42 - #4 Total 1 at 2"o.c. 10 at 5"o.c. 10 at 10"o.c.	S2	
B30	32"	25"	2 - #10 x 13'-0" Top at Grid 3.7 4 - #7 x 19'-6" Top at Midspan 4 - #10 x 20'-0" Top at Grid 4.7 2 - #9 x 35'-6" Bottom 3 - #9 x 35'-6" Bottom	D B B E B	42 - #4 Total 1 at 2"o.c. 10 at 5"o.c. 10 at 10"o.c.	S3	2 - #9 and 2 - #10 Bars with hooks are to be placed at Grid 3.7 on south side of beam to account for beam offset.
B31	32"	25"	4 - #10 x 20'-0" Top at Grid 5.2 4 - #9 x 20'-6" Bottom	B B	24 - #4 Total 1 at 2"o.c. 10 at 5"o.c. 1 at 10"o.c.	S3	
B32	32"	25"	4 - #7 x 15'-0" Top at Midspan 4 - #10 x 16'-0" Top at Grid 5.9 4 - #9 x 29'-0" Bottom	B B B	34 - #4 Total 1 at 2"o.c. 10 at 5"o.c. 6 at 10"o.c.	S3	
B33	32"	25"	4 - #8 x 18'-0" Top at East End 4 - #9 x 24'-0" Bottom	A C	32 - #4 Total 1 at 2"o.c. 10 at 5"o.c. 5 at 10"o.c.	S3	
B34	24"	25"	4 - #8 x 14'-6" Top at Grid 0.2 4 - #9 x 24'-0" Top at Grid 1 4 - #9 x 23'-6" Bottom	D B E	30 - #4 Total 1 at 2"o.c. 10 at 5"o.c. 4 at 10"o.c.	S2	
B35	24"	25"	4 - #7 x 20'-0" Top at Midspan 4 - #9 x 24'-0" Top at Grid 2.7 4 - #9 x 40'-0" Bottom	B B B	48 - #4 Total 1 at 2"o.c. 10 at 5"o.c. 13 at 10"o.c.	S2	
B36	24"	25"	4 - #7 x 17'-6" Top at Midspan 4 - #9 x 41'-0" Bottom	B B	42 - #4 Total 1 at 2"o.c. 10 at 5"o.c. 10 at 10"o.c.	S2	Extend Bottom Bars Into B37
B37	24"	25"	4 - #9 x 20'-0" Top at West End	A	14 - #4 Total 1 at 2"o.c. 10 at 5"o.c. 3 at 10"o.c.	S2	Stirrups are spaced from Grid 3.7 only
B38	25"	25"	4 - #8 x 14'-6" Top at Grid 0.2 4 - #9 x 24'-0" Top at Grid 1 4 - #9 x 23'-6" Bottom	D B E	30 - #4 Total 1 at 2"o.c. 10 at 5"o.c. 4 at 10"o.c.	S2	
B39	25"	25"	4 - #7 x 20'-0" Top at Midspan 4 - #9 x 46'-0" Bottom	B B	48 - #4 Total 1 at 2"o.c. 10 at 5"o.c. 13 at 10"o.c.	S2	Extend Bottom Bars Into B40
B40	25"	25"	4 - #9 x 23'-0" Top at West End	A	15 - #4 Total 1 at 2"o.c. 10 at 5"o.c. 4 at 10"o.c.	S2	Stirrups are spaced from Grid 2.7 only
B41	12" 10" @ RECESS	25"	2 - #7 x 14'-6" Top at Grid 0.2 2 - #7 x 14'-6" Top at Grid 1 1 - #9 x 24'-0" Top at Grid 1 1 - #8 x 24'-0" Bottom 1 - #8 x 21'-0" Bottom	D A B E C	20 - #4 Total 1 at 2"o.c. 9 at 10"o.c.	S2	Extend #8 x 24'-0" into B42
B42	12" 10" @ RECESS	25"	2 - #7 x 14'-6" Top at Grid 1 2 - #6 x 20'-0" Top at Midspan 2 - #10 x 46'-2" Bottom	D B E	38 - #4 Total 1 at 2"o.c. 18 at 8"o.c.	S2	Extend Bottom Bars into B43
B43	12" 10" @ RECESS	25"	2 - #9 x 23'-0" Top at West End	A	10 - #4 Total 1 at 2"o.c. 9 at 8"o.c.	S2	Stirrups are spaced from Grid 2.7 only
B44	12" 10" @ RECESS		NOT USED				
B45	12" 10" @ RECESS	25"	1 - #7 x 12'-0" Top at Grid 3.7 2 - #6 x 19'-6" Top at Midspan 2 - #9 x 20'-0" Top at Grid 4.7 2 - #9 x 35'-6" Bottom	D B B B	32 - #4 Total 1 at 2"o.c. 15 at 10"o.c.	S2	
B46	12" 10" @ RECESS	25"	2 - #9 x 20'-0" Top at Grid 5.2 2 - #8 x 20'-6" Bottom	B B	14 - #4 Total 1 at 2"o.c. 6 at 5"o.c.	S2	
B47	12" 10" @ RECESS	25"	2 - #6 x 15'-0" Top at Midspan 2 - #7 x 20'-0" Top at Grid 5.9 2 - #9 x 29'-0" Bottom	B A C	24 - #4 Total 1 at 2"o.c. 11 at 10"o.c.	S2	
B48	12" 10" @ RECESS	25"	2 - #7 x 15'-0" Top at Concrete Wall 2 - #7 x 15'-0" Top at Grid 5.9 1 - #9 x 22'-0" Bottom 1 - #9 x 22'-0" Bottom	A D C E	22 - #4 Total 1 at 2"o.c. 10 at 10"o.c.	S2	

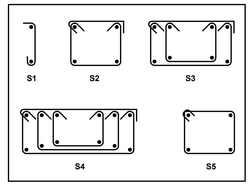
7 BEAM SCHEDULE



6 TYPICAL BEAM/SLAB SECTION
3/4" = 1'-0"

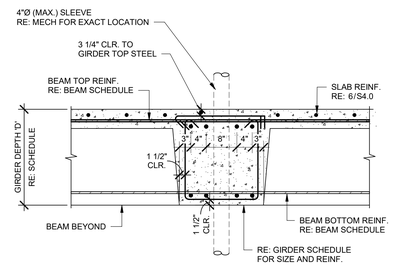
BAR TYPE	SKETCH
A	
B	
C	
D	
E	
F	
G	

5 BEAM/SLAB BAR TYPE DIAGRAM
3/4" = 1'-0"



NOTES:
1. SEE TYPICAL DETAILS FOR PLACEMENT.
2. HOOK SHOWN ARE STANDARD HOOK LENGTHS PER ACI-318.

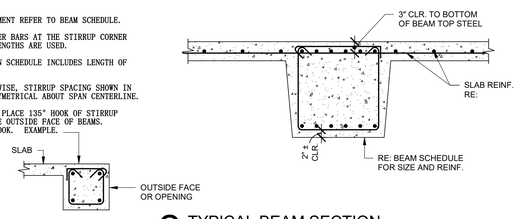
4 BEAM/GIRDER STIRRUP TYPE DIAGRAM
3/4" = 1'-0"



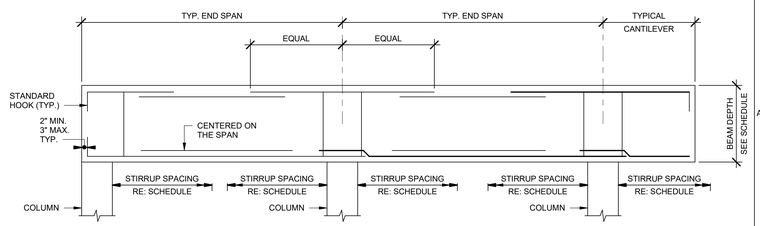
3 TYPICAL GIRDER SECTION @ SINGLE STIRRUPS
3/4" = 1'-0"

BEAM NOTES:

1. FOR BEAM REINFORCEMENT REFER TO BEAM SCHEDULE.
2. ALLWAYS PLACE LONGER BARS AT THE STIRRUP CORNER IF TWO DIFFERENT LENGTHS ARE USED.
3. BAR LENGTH SHOWN IN SCHEDULE INCLUDES LENGTH OF THE HOOK (IF ANY).
4. UNLESS NOTED OTHERWISE, STIRRUP SPACING SHOWN IN BEAM SCHEDULE IS SYMETRICAL ABOUT SPAN CENTERLINE.
5. IN SPANDREL BEAMS, PLACE 135° HOOK OF STIRRUP CLOSURE BARS ON THE OUTSIDE FACE OF BEAMS. DO NOT ALTERNATE HOOK. EXAMPLE.



2 TYPICAL BEAM SECTION
3/4" = 1'-0"



1 TYPICAL BEAM/GIRDER ELEVATION
3/4" = 1'-0"

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CONSTRUCTION DOCUMENTS

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ASC EXPANSION & RENOVATION
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Lee's Summit, MO 64086

Date	02/07/2023
Job Number	3-21037
Drawn By	GEB
Checked By	KGS

Revision

Number	Date	Description
2	02-10-23	ADDENDUM #2

GRADING, FOOTING, AND FOUNDATION PACKAGE

S4.0

BEAM SCHEDULE AND DETAILS

EXISTING BUILDING CONCRETE BEAM SCHEDULE

BEAM MARK	SIZE WIDTH	SIZE DEPTH	REINFORCING LONGITUDINAL REINFORCING	TYPE	STIRRUP CONFIGURATION SPACING EA. END	TYPE	COMMENTS
B49	12" 10" @ RECESS 4TH	25"	1 - # 7 x 14'-0" Top @ Grid 2.7 2 - # 6 x 17'-6" Top @ Midspan 2 - # 10 x 41'-0" Bottom	D B B	32 - #4 Total 1 @ 2"o.c. 15 @ 10"o.c.	S2	Extend Bottom Bars into B50
B50	12" 10" @ RECESS 4TH	25"	2 - # 9 x 20'-0" Top @ West End	A	9 - #4 Total 1 @ 2"o.c. 8 @ 10"o.c.	S2	Stirrups are spaced from Grid 3.7 only
B51	9"	25"	2 - # 6 x 20'-0" Top @ Midspan 2 - # 10 x 46'-0" Bottom	B B	38 - #3 Total 1 @ 2"o.c. 18 @ 10"o.c.	S5	Extend Bottom Bars into B52
B52	9"	25"	2 - # 9 x 23'-0" Top @ West End	A	10 - #3 Total 1 @ 2"o.c. 9 @ 10"o.c.	S5	Stirrups are spaced from Grid 2.7 only
B53	19"	25"	3 - # 8 x 14'-6" Top @ Grid 0.2 3 - # 10 x 24'-0" Top @ Grid 1 3 - # 10 x 24'-0" Bottom	D B E	30 - #4 Total 1 @ 2"o.c. 10 @ 5"o.c. 4 @ 10"o.c.	S2	
B54	19"	25"	3 - # 7 x 20'-0" Top @ Midspan 3 - # 10 x 24'-0" Top @ Grid 2.7 3 - # 10 x 40'-0" Bottom	B B B	48 - #4 Total 1 @ 2"o.c. 10 @ 5"o.c. 13 @ 10"o.c.	S2	

NEW BUILDING CONCRETE BEAM SCHEDULE (2ND AND 3RD FLOOR)

BEAM MARK	SIZE WIDTH	SIZE DEPTH	REINFORCING LONGITUDINAL REINFORCING	TYPE	STIRRUP CONFIGURATION SPACING EA. END	TYPE	COMMENTS
B101	26"	25"	4 - # 8 x 14'-0" Top @ Grid 0.2 5 - # 9 x 24'-0" Top @ Grid 1 4 - # 7 x 24'-0" Bot @ Grid 0.2	A B C	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
B102	26"	25"	4 - # 7 x 20'-0" Top @ Mid-Span 5 - # 9 x 26'-0" Top @ Grid 2.5 4 - # 8 x 34'-0" Bot @ Mid-Span	B B B	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
B103	26"	25"	4 - # 7 x 20'-0" Top @ Mid-Span 5 - # 9 x 26'-0" Top @ Grid 3.7 4 - # 9 x 42'-0" Bot @ Mid-Span	B B B	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
B104	26"	25"	4 - # 7 x 16'-0" Top @ Mid-Span 5 - # 9 x 24'-0" Top @ Grid 4.7 4 - # 8 x 34'-0" Bot @ Mid-Span	B B B	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
B105	26"	25"	4 - # 7 x 18'-0" Top @ Mid-Span 5 - # 9 x 24'-0" Top @ Grid 5.7 4 - # 8 x 40'-0" Bot @ Mid-Span	B B B	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
B106	26"	25"	4 - # 7 x 24'-0" Top @ Grid 7.6 4 - # 8 x 34'-0" Bot @ Grid 7.6	D E	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
B107	22"	25"	4 - # 8 x 14'-0" Top @ Grid 0.2 5 - # 9 x 24'-0" Top @ Grid 1 4 - # 8 x 24'-0" Bot @ Grid 0.2	A B C	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
B108	22"	25"	4 - # 7 x 18'-0" Top @ Mid-Span 5 - # 9 x 24'-0" Top @ Grid 2.5 4 - # 8 x 38'-0" Bot @ Mid-Span	B B B	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
B109	22"	25"	4 - # 7 x 14'-0" Top @ Mid-Span 5 - # 9 x 24'-0" Top @ Grid 3.7 4 - # 8 x 34'-0" Bot @ Mid-Span	B B B	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
B110	22"	25"	4 - # 7 x 14'-0" Top @ Mid-Span 5 - # 9 x 24'-0" Top @ Grid 4.7 4 - # 8 x 34'-0" Bot @ Mid-Span	B B B	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
B111	22"	25"	4 - # 7 x 18'-0" Top @ Mid-Span 5 - # 9 x 24'-0" Top @ Grid 5.7 4 - # 8 x 38'-0" Bot @ Mid-Span	B B B	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
B112	22"	25"	4 - # 8 x 24'-0" Top @ Grid 7.6 4 - # 8 x 34'-0" Bot @ Grid 7.6	D E	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
B113	23" 21" @ RECESS 3RD	25"	4 - # 8 x 14'-0" Top @ Grid 0.2 5 - # 9 x 24'-0" Top @ Grid 1 4 - # 8 x 24'-0" Bot @ Grid 0.2	A B C	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
B114	23" 21" @ RECESS 3RD	25"	4 - # 7 x 18'-0" Top @ Mid-Span 5 - # 9 x 24'-0" Top @ Grid 2.5 4 - # 8 x 38'-0" Bot @ Mid-Span	B B B	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
B115	23" 21" @ RECESS 3RD	25"	SEE B115A FOR REINF.		#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
B115A	22"	25"	4 - # 7 x 24'-0" Top @ 3.7 4 - # 9 x 38'-0" Bottom Center Btwn Grid 2.7 and 3.7	D B	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
B116	19" 17" @ RECESS 3RD	25"	4 - # 8 x 14'-0" Top @ Grid 4.7 4 - # 7 x 20'-0" Top @ Mid-Span 4 - # 10 x 24'-0" Top @ Grid 5.7 4 - # 10 x 40'-0" Bot @ Grid 4.7	A B B C	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
B117	19" 17" @ RECESS 3RD	25"	4 - # 7 x 14'-0" Top @ Mid-Span 4 - # 8 x 14'-0" Top @ Grid 7.6 4 - # 10 x 36'-0" Bot @ Grid 7.6	B D E	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
B118	21" 2	25"	2 4 - # 7 x TOP Each End (4'-0" LAP) 4 - # 7 x 10'-8" Bottom	A D B	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
B119	10"	25"	RE: 15/S2.7 FOR REINF.		#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
B120	10" 8" @ RECESS	25"	RE: 14/S2.7 FOR REINF.		#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
B121	15"	25"	RE: 12/S2.7 FOR REINF.		#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
B122	12"	25"	3 - # 7 x - Top @ Each End (4'-0" Lap) 3 - # 9 x 26'-6" Bottom	A D B	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
B123	12"	25"	2 - # 7 x - Top @ Each End (4'-0" Lap) 2 - # 7 x 12'-8" Bottom	A D B	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	

NEW BUILDING CONCRETE BEAM SCHEDULE (ROOF/FUTURE 4TH FLOOR)

BEAM MARK	SIZE WIDTH	SIZE DEPTH	REINFORCING LONGITUDINAL REINFORCING	TYPE	STIRRUP CONFIGURATION SPACING EA. END	TYPE	COMMENTS
RB101		25"	4 - # 8 x 14'-0" Top @ Grid 0.2 5 - # 9 x 24'-0" Top @ Grid 1 4 - # 7 x 24'-0" Bot @ Grid 0.2	A B C	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
RB102		25"	4 - # 7 x 20'-0" Top @ Mid-Span 5 - # 9 x 26'-0" Top @ Grid 2.5 4 - # 8 x 34'-0" Bot @ Mid-Span	B B B	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
RB103		25"	4 - # 7 x 20'-0" Top @ Mid-Span 5 - # 9 x 26'-0" Top @ Grid 3.7 4 - # 9 x 42'-0" Bot @ Mid-Span	B B B	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
RB104		25"	4 - # 7 x 16'-0" Top @ Mid-Span 5 - # 9 x 24'-0" Top @ Grid 4.7 4 - # 8 x 34'-0" Bot @ Mid-Span	B B B	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
RB105		25"	4 - # 7 x 18'-0" Top @ Mid-Span 5 - # 9 x 24'-0" Top @ Grid 5.7 4 - # 8 x 40'-0" Bot @ Mid-Span	B B B	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
RB106		25"	4 - # 8 x 24'-0" Top @ Grid 7.6 4 - # 8 x 34'-0" Bot @ Grid 7.6	D E	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
RB107		25"	4 - # 8 x 14'-0" Top @ Grid 0.2 5 - # 9 x 24'-0" Top @ Grid 1 4 - # 8 x 24'-0" Bot @ Grid 0.2	A B C	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
RB108			4 - # 7 x 18'-0" Top @ Mid-Span 5 - # 9 x 24'-0" Top @ Grid 2.5 4 - # 8 x 38'-0" Bot @ Mid-Span	B B B	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
RB109			4 - # 7 x 14'-0" Top @ Mid-Span 5 - # 9 x 24'-0" Top @ Grid 3.7 4 - # 8 x 34'-0" Bot @ Mid-Span	B B B	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
RB110		25"	4 - # 7 x 14'-0" Top @ Mid-Span 5 - # 9 x 24'-0" Top @ Grid 4.7 4 - # 8 x 34'-0" Bot @ Mid-Span	B B B	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
RB111		25"	4 - # 7 x 18'-0" Top @ Mid-Span 5 - # 9 x 24'-0" Top @ Grid 5.7 4 - # 8 x 38'-0" Bot @ Mid-Span	B B B	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
RB112			4 - # 8 x 24'-0" Top @ Grid 7.6 4 - # 8 x 34'-0" Bot @ Grid 7.6	D E	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
RB113	23" 21" @ RECESS	25"	4 - # 8 x 14'-0" Top @ Grid 0.2 5 - # 9 x 24'-0" Top @ Grid 1 4 - # 8 x 24'-0" Bot @ Grid 0.2	A B C	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
RB114	23" 21" @ RECESS	25"	4 - # 7 x 18'-0" Top @ Mid-Span 5 - # 9 x 24'-0" Top @ Grid 2.5 4 - # 8 x 38'-0" Bot @ Mid-Span	B B B	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
RB115	23" 21" @ RECESS	25"	SEE RB115A FOR REINF.		#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
RB115A	22"	25"	4 - # 7 x 24'-0" Top @ 3.7 4 - # 9 x 38'-0" Bottom Center Btwn Grid 2.7 and 3.7	D B	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
RB116	19" 17" @ RECESS	25"	4 - # 8 x 14'-0" Top @ Grid 4.7 4 - # 7 x 20'-0" Top @ Mid-Span 4 - # 10 x 24'-0" Top @ Grid 5.7 4 - # 10 x 40'-0" Bot @ Grid 4.7	A B B C	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
RB117	19" 17" @ RECESS	25"	4 - # 7 x 14'-0" Top @ Mid-Span 4 - # 8 x 14'-0" Top @ Grid 7.6 4 - # 10 x 36'-0" Bot @ Grid 7.6	B D E	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
RB118	21" 2	25"	2 4 - # 7 x TOP Each End (4'-0" LAP) 4 - # 7 x 10'-8" Bottom	A D B	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
RB119	10"	25"	RE: 15/S2.7 FOR REINF.		#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
RB120	10" 8" @ RECESS	25"	RE: 14/S2.7 FOR REINF.		#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
RB121	15"	25"	RE: 12/S2.7 FOR REINF.		#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
RB122	12"	25"	3 - # 7 x - Top @ Each End (4'-0" Lap) 3 - # 9 x 26'-6" Bottom	A B B	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	
RB123	12"	25"	2 - # 7 x - Top @ Each End (4'-0" Lap) 2 - # 7 x 12'-8" Bottom	A B B	#4 1 @ 2"o.c. 10 @ 5"o.c. Rest @ 10"o.c.	S5	

1 BEAM SCHEDULE

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NUMBER PE-2010022
PROFESSIONAL ENGINEER
02/16/2023
Krishna G. Saha, Engineer
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CONSTRUCTION DOCUMENTS

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Lee's Summit, MO 64086

Date	02/07/2023
Job Number	3-21037
Drawn By	GEB
Checked By	KGS

Revision

Number	Date	Description
2	02-10-23	ADDENDUM #2

GRADING, FOOTING, AND FOUNDATION PACKAGE

S4.1

BEAM SCHEDULE

NEW BUILDING CONCRETE JOIST SCHEDULE (2ND AND 3RD FLOOR)

BEAM MARK	SIZE WIDTH	SIZE DEPTH	REINFORCING LONGITUDINAL REINFORCING	TYPE	STIRRUP CONFIGURATION SPACING EA. END	TYPE	COMMENTS
J1	9"	25"	2 - # 6 x 11'-0" Top @ Grid 0.2 2 - # 8 x 24'-0" Top @ Grid 1 2 - # 7 x 21'-0" Bot	A B B	#3 1 @ 2"o.c. Rest @ 10"o.c.	S5	
J2	9"	25"	2 - # 6 x 15'-0" Top @ Mid-Span 2 - # 9 x 24'-0" Top @ Grid 2.5 2 - # 8 x 38'-0" Bot @ Mid-Span	B B B	#3 1 @ 2"o.c. Rest @ 10"o.c.	S5	
J3	9"	25"	2 - # 6 x 15'-0" Top @ Mid-Span 2 - # 8 x 24'-0" Top @ Grid 3.7 2 - # 8 x 34'-0" Bot @ Mid-Span	B B B	#3 1 @ 2"o.c. Rest @ 10"o.c.	S5	
J4	9"	25"	2 - # 6 x 15'-0" Top @ Mid-Span 2 - # 9 x 24'-0" Top @ Grid 4.7 2 - # 8 x 34'-0" Bot @ Mid-Span	B B B	#3 1 @ 2"o.c. Rest @ 10"o.c.	S5	
J5	9"	25"	2 - # 6 x 18'-0" Top @ Mid-Span 2 - # 9 x 24'-0" Top @ Grid 5.7 2 - # 8 x 38'-0" Bot @ Mid-Span	B B B	#3 1 @ 2"o.c. Rest @ 10"o.c.	S5	
J6	9"	25"	2 - # 6 x 24'-0" Top @ Grid 7.6 2 - # 8 x 34'-0" Bot @ Mid-Span	D B	#3 1 @ 2"o.c. Rest @ 10"o.c.	S5	
J6A	9"	25"	2 - # 6 x 8'-0" Top @ Grid 3.2 2 - # 7 x 18'-0" Bot @ Mid-Span	A B	#3 1 @ 2"o.c. Rest @ 10"o.c.	S5	
J7	9"	25"	2 - # 7 x 24'-0" Top @ Grid 3.7 2 - # 6 x 12'-0" Top @ Mid-Span 2 - # 10 x 24'-0" Top @ Grid 4.7 2 - # 9 x 34'-0" Bot @ Mid-Span	A B B B	#3 1 @ 2"o.c. Rest @ 10"o.c.	S5	
J8	9"	25"	2 - # 6 x 18'-0" Top @ Mid-Span 2 - # 10 x 24'-0" Top @ Grid 5.7 2 - # 9 x 38'-0" Bot @ Mid-Span	B B B	#3 1 @ 2"o.c. Rest @ 10"o.c.	S5	
J9	9"	25"	2 - # 6 x 24'-0" Top @ Grid 7.6 2 - # 9 x 34'-0" Bot @ Mid-Span	D B	#3 1 @ 2"o.c. Rest @ 10"o.c.	S5	
J10	9"	25"	2 - # 6 Top @ Each End With 3'-0" Lap @ Mid-Span 2 - # 7 x 18'-0" Bottom	A, D B	#3 1 @ 2"o.c. Rest @ 10"o.c.	S5	
J11	9"	25"	2 - # 6 Top @ Each End With 3'-0" Lap @ Mid-Span 2 - # 7 x 18'-0" Bottom	A, D B	#3 1 @ 2"o.c. Rest @ 10"o.c.	S5	
2 J12	9"	25"	2 - # 7 Top @ Each End With 3'-6" Lap @ Mid-Span 2 - # 7 x 20'-0" Hook South End	A, D E	#3 1 @ 2"o.c. Rest @ 10"o.c.	S5	EXTEND TOP AND BOTTOM BAR TO SOUTH EDGE OF SLAB, RE: 1S/S3.0

NEW BUILDING CONCRETE JOIST SCHEDULE (ROOF/FUTURE 4TH FLOOR)

BEAM MARK	SIZE WIDTH	SIZE DEPTH	REINFORCING LONGITUDINAL REINFORCING	TYPE	STIRRUP CONFIGURATION SPACING EA. END	TYPE	COMMENTS
RJ1	9"	25"	2 - # 6 x 11'-0" Top @ Grid 0.2 2 - # 8 x 24'-0" Top @ Grid 1 2 - # 7 x 21'-0" Bot	A B B	#3 1 @ 2"o.c. Rest @ 10"o.c.	S5	
RJ2	9"	25"	2 - # 6 x 15'-0" Top @ Mid-Span 2 - # 9 x 24'-0" Top @ Grid 2.5 2 - # 8 x 38'-0" Bot @ Mid-Span	B B B	#3 1 @ 2"o.c. Rest @ 10"o.c.	S5	
RJ3	9"	25"	2 - # 6 x 15'-0" Top @ Mid-Span 2 - # 8 x 24'-0" Top @ Grid 3.7 2 - # 8 x 34'-0" Bot @ Mid-Span	B B B	#3 1 @ 2"o.c. Rest @ 10"o.c.	S5	
RJ4	9"	25"	2 - # 6 x 15'-0" Top @ Mid-Span 2 - # 9 x 24'-0" Top @ Grid 4.7 2 - # 8 x 34'-0" Bot @ Mid-Span	B B B	#3 1 @ 2"o.c. Rest @ 10"o.c.	S5	
RJ5	9"	25"	2 - # 6 x 18'-0" Top @ Mid-Span 2 - # 10 x 24'-0" Top @ Grid 5.7 2 - # 8 x 38'-0" Bot @ Mid-Span	B B B	#3 1 @ 2"o.c. Rest @ 10"o.c.	S5	
RJ6	9"	25"	2 - # 6 x 24'-0" Top @ Grid 7.6 2 - # 8 x 34'-0" Bot @ Mid-Span	D B	#3 1 @ 2"o.c. Rest @ 10"o.c.	S5	
RJ6A	9"	25"	2 - # 6 x 8'-0" Top @ Grid 3.2 2 - # 7 x 18'-0" Bot @ Mid-Span	A B	#3 1 @ 2"o.c. Rest @ 10"o.c.	S5	
RJ7	9"	25"	2 - # 7 x 24'-0" Top @ Grid 3.7 2 - # 6 x 12'-0" Top @ Mid-Span 2 - # 10 x 24'-0" Top @ Grid 4.7 2 - # 9 x 34'-0" Bot @ Mid-Span	A B B B	#3 1 @ 2"o.c. Rest @ 10"o.c.	S5	
RJ8	9"	25"	2 - # 6 x 18'-0" Top @ Mid-Span 2 - # 10 x 24'-0" Top @ Grid 5.7 2 - # 9 x 38'-0" Bot @ Mid-Span	B B B	#3 1 @ 2"o.c. Rest @ 10"o.c.	S5	
RJ9	9"	25"	2 - # 6 x 24'-0" Top @ Grid 7.6 2 - # 9 x 34'-0" Bot @ Mid-Span	D B	#3 1 @ 2"o.c. Rest @ 10"o.c.	S5	
RJ10	9"	25"	2 - # 6 Top @ Each End With 3'-0" Lap @ Mid-Span 2 - # 7 x 18'-0" Bottom	A, D B	#3 1 @ 2"o.c. Rest @ 10"o.c.	S5	
RJ11	9"	25"	2 - # 6 Top @ Each End With 3'-0" Lap @ Mid-Span 2 - # 7 x 18'-0" Bottom	A, D B	#3 1 @ 2"o.c. Rest @ 10"o.c.	S5	
RJ12	9"	25"	2 - # 7 Top @ Each End With 3'-6" Lap @ Mid-Span 2 - # 7 x 20'-0" Hook South End	A, D E	#3 1 @ 2"o.c. Rest @ 10"o.c.	S5	EXTEND TOP AND BOTTOM BAR TO SOUTH EDGE OF SLAB, RE: 1S/S3.0

2 JOIST SCHEDULE

STATE OF MISSOURI
KRISHNA G. SAHA
NUMBER PE-2010022
REGISTERED PROFESSIONAL ENGINEER
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CONSTRUCTION DOCUMENTS

Saint Luke's EAST HOSPITAL

ASC EXPANSION & RENOVATION
100 NE Saint Luke's Blvd
Lee's Summit, MO 64086

Date	02/07/2023
Job Number	3-21037
Drawn By	GEB
Checked By	KGS

Revision

Number	Date	Description
2	02-10-23	ADDENDUM #2

GRADING, FOOTING, AND FOUNDATION PACKAGE

S4.2

JOIST SCHEDULE

EXISTING BUILDING CONCRETE GIRDER SCHEDULE

BEAM MARK	SIZE WIDTH	SIZE DEPTH	REINFORCING LONGITUDINAL REINFORCING	TYPE	STIRRUP CONFIGURATION SPACING EA. END	STIRRUP CONFIGURATION TYPE	COMMENTS
G1	28" 26" @ RECESS	25"	4 - # 9 x 13'-0" Top @ Grid DD	A	42 - #4 Total		
			4 - # 8 x 13'-0" Top @ Midspan	B	1 @ 2"o.c.		
			4 - # 11 x 28'-0" Top @ Grid CC	B	11 @ 5"o.c.	S3	
			4 - # 10 x 33'-0" Bottom	C	9 @ 10"o.c.		
G2	28" 26" @ RECESS	25"			36 - #4 Total		
			4 - # 10 x 28'-0" Top @ Grid BB	B	1 @ 2"o.c.		
			4 - # 10 x 28'-6" Bottom	B	11 @ 5"o.c.	S3	
					6 @ 10"o.c.		
G3	28" 26" @ RECESS	25"	4 - # 10 x 30'-0" Bottom	B	30 - #4 Total		Extend Bottom Bars Into G4
					1 @ 2"o.c.		
					10 @ 5"o.c.	S3	
					4 @ 10"o.c.		
G4	28"	25"	4 - # 10 x 20'-0" Top @ North End	D	15 - #4 Total		Stirrups are Spaced From Grd A.5 Only
					1 @ 2"o.c.		
					10 @ 5"o.c.	S3	
					4 @ 10"o.c.		
G5	36"	25"	4 - # 9 x 13'-0" Top @ Grid DD	A	42 - #4 Total		
			4 - # 8 x 13'-0" Top @ Midspan	B	1 @ 2"o.c.		
			4 - # 11 x 28'-0" Top @ Grid CC	B	11 @ 5"o.c.	S3	
			4 - # 11 x 18'-0" Top @ Grid CC	B	9 @ 10"o.c.		
			4 - # 10 x 33'-0" Bottom	C			
			3 - # 11 x 21'-0" Bottom	B			
G6	36"	25"	4 - # 11 x 28'-0" Top @ Grid BB	B	36 - #4 Total		
			4 - # 10 x 28'-6" Bottom	B	1 @ 2"o.c.		
					11 @ 5"o.c.	S3	
					6 @ 10"o.c.		
G7	36"	25"	4 - # 10 x 30'-0" Bottom	B	30 - #4 Total		Extend Bottom Bars into G8
					1 @ 2"o.c.		
					10 @ 5"o.c.	S3	
					4 @ 10"o.c.		
G8	36"	25"	6 - # 10 x 20'-0" Top @ North End	A	15 - #4 Total		Stirrups are Spaced From Grid A.5 Only
					1 @ 2"o.c.		
					10 @ 5"o.c.	S3	
					4 @ 10"o.c.		
G9	36"	25"	4 - # 9 x 13'-0" Top @ Grid DD	A	42 - #4 Total		
			4 - # 8 x 13'-0" Top @ Midspan	B	1 @ 2"o.c.		
			4 - # 11 x 28'-0" Top @ Grid CC	B	11 @ 5"o.c.	S3	
			4 - # 11 x 18'-0" Top @ Grid CC	B	9 @ 10"o.c.		
			4 - # 10 x 33'-0" Bottom	C			
			3 - # 11 x 21'-0" Bottom	B			
G10	36"	25"	4 - # 10 x 34'-0" Bottom	B	36 - #4 Total		Extend Bottom Bars into G11
					1 @ 2"o.c.		
					11 @ 5"o.c.	S3	
					6 @ 10"o.c.		
G11	36"	25"	6 - # 10 x 24'-6" Top @ North End	D	15 - #4 Total		Stirrups are Spaced From Grid BB Only
					1 @ 2"o.c.		
					10 @ 5"o.c.	S3	
					4 @ 10"o.c.		
G12	36"	25"	4 - # 9 x 16'-6" Top @ Grid DD	A	54 - #4 Total		Extend 4 - #10 Bottom Bars into G13
			4 - # 8 x 20'-0" Top @ Midspan	B	1 @ 2"o.c.		
			4 - # 10 x 49'-0" Bottom	C	11 @ 5"o.c.	S3	
			5 - # 11 x 35'-0" Bottom	B	15 @ 10"o.c.		
G13	36"	25"	5 - # 10 x 25'-0" Top @ North End	D	16 - #4 Total		Stirrups are Spaced From Grid BB.5 Only
			4 - # 10 x 20'-0" Top @ North End	D	1 @ 2"o.c.		
					11 @ 5"o.c.	S3	
					4 @ 10"o.c.		

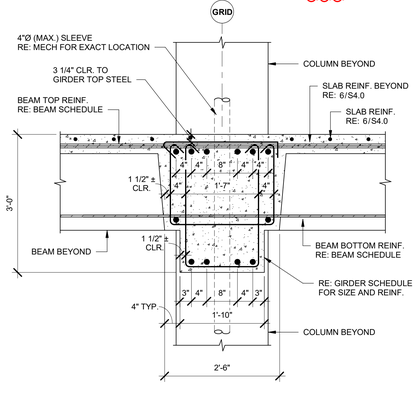
NEW BUILDING CONCRETE GIRDER SCHEDULE

BEAM MARK	SIZE WIDTH	SIZE DEPTH	REINFORCING LONGITUDINAL REINFORCING	TYPE	STIRRUP CONFIGURATION SPACING EA. END	STIRRUP CONFIGURATION TYPE	COMMENTS
G101	30" 28" @ RECESS	25"	6 - # 9 x 22'-0" Top @ Grid EE	A	3 - Set Of #4		
			6 - # 10 x 18'-0" Top @ Grid FF	B	1 @ 2"o.c., 10 @ 5"o.c.		
			4 - # 9 x 28'-0" Bot @ Grid EE	C	Rest @ 10"o.c.	S3	
			2 - # 9 x 18'-0" Bot @ Mid-Span	B			
G102	30" 28" @ RECESS	25"	4 - # 8 x 18'-0" Top @ Mid-Span	B	3 - Set Of #4		
			6 - # 10 x 18'-0" Top @ Grid GG	B	1 @ 2"o.c., 10 @ 5"o.c.		
			4 - # 9 x 32'-0" Bot @ Mid-Span	B	Rest @ 10"o.c.	S3	
			2 - # 9 x 22'-0" Bot @ Mid-Span	B			
G103	30" 28" @ RECESS	25"	4 - # 8 x 18'-0" Top @ Mid-Span	B	3 - Set Of #4		
			6 - # 9 x 12'-0" Top @ Grid JJ	D	1 @ 2"o.c., 10 @ 5"o.c.		
			4 - # 9 x 32'-0" Bot @ Grid JJ	E	Rest @ 10"o.c.	S3	
			2 - # 9 x 22'-0" Bot @ Mid-Span	B			
G104	30"	25"	6 - # 9 x 22'-0" Top @ Grid EE	A	3 - Set Of #4		
			6 - # 10 x 18'-0" Top @ Grid FF	B	1 @ 2"o.c., 10 @ 5"o.c.		
			4 - # 9 x 28'-0" Bot @ Grid EE	C	Rest @ 10"o.c.	S3	
			2 - # 9 x 18'-0" Bot @ Mid-Span	B			
G105	30"	25"	4 - # 8 x 18'-0" Top @ Mid-Span	B	3 - Set Of #4		
			6 - # 10 x 18'-0" Top @ Grid GG	B	1 @ 2"o.c., 10 @ 5"o.c.		
			4 - # 9 x 32'-0" Bot @ Mid-Span	B	Rest @ 10"o.c.	S3	
			2 - # 9 x 22'-0" Bot @ Mid-Span	B			
G105A	30"	25"	4 - # 8 x 18'-0" Top @ Mid-Span	B	3 - Set Of #4		
			6 - # 10 x 22'-0" Top @ Grid GG	B	1 @ 2"o.c., 10 @ 5"o.c.		
			Extend 13'-0" to each of Grid GG		Rest @ 10"o.c.	S3	
			4 - # 9 x 32'-0" Bot @ Mid-Span	B			
			2 - # 9 x 22'-0" Bot @ Mid-Span	B			
G106	30"	25"	4 - # 8 x 18'-0" Top @ Mid-Span	B	3 - Set Of #4		
			6 - # 10 x 12'-0" Top @ Grid JJ	D	1 @ 2"o.c., 10 @ 5"o.c.		
			4 - # 9 x 32'-0" Bot @ Grid JJ	E	Rest @ 10"o.c.	S3	
			2 - # 10 x 22'-0" Bot @ Mid-Span	B			
G106A	22"	36"	6 - # 8 x 20'-0" Top @ Mid-Span	B	3 - Set Of #4		RE: 2/S4.3 For Additional Reinf.
			Re: G105A for Top Bar @ Grid GG	D	1 @ 2"o.c., 10 @ 5"o.c.		
			6 - # 10 x 16'-0" Top @ Grid JJ.8	E	Rest @ 10"o.c.	S2	
			4 - # 10 x 40'-0" Bot @ Grid JJ.8	E			
G107	30"	25"	6 - # 9 x 22'-0" Top @ Grid EE	A	3 - Set Of #4		
			6 - # 10 x 18'-0" Top @ Grid FF	B	1 @ 2"o.c., 10 @ 5"o.c.		
			4 - # 9 x 28'-0" Bot @ Grid EE	B	Rest @ 10"o.c.	S3	
			2 - # 9 x 18'-0" Bot @ Mid-Span	C			
				B			
G108	30"	25"	4 - # 8 x 18'-0" Top @ Mid-Span	B	3 - Set Of #4		
			Re: G109 For Top Bar @ Grid GG	B	1 @ 2"o.c., 10 @ 5"o.c.		
			ADD'L 2 - #10 x 14'-0" top @ Grid GG	B	Rest @ 10"o.c.	S3	
			4 - # 9 x 32'-0" Bot @ Mid-Span	B			
			2 - # 9 x 22'-0" Bot @ Mid-Span	B			
G109	30"	25"	4 - # 10 x 36'-0" Top Center @ Mid-Span	B	3 - Set Of #4		
			ADD'L 2 - #10 x 16'-0" top @ Grid HH	B	1 @ 2"o.c., 10 @ 5"o.c.		
			6 - # 8 x 22'-0" Bot @ Mid-Span	B	Rest @ 10"o.c.	S3	
G110	30"	25"	2 - 6 - # 10 x 18'-0" Top @ Grid KK	B	3 - Set Of #4		
					1 @ 2"o.c., 10 @ 5"o.c.		
			4 - # 8 x 12'-0" Top @ Mid-Span	B	Rest @ 10"o.c.	S3	
			4 - # 9 x 26'-0" Bot @ Mid-Span	B			
			2 - # 9 x 18'-0" Bot @ Mid-Span	B			
G111	2 31"	25"	2 - 4 - # 7 x 16'-0" Top @ Mid-Span	B	3 - Set Of #4		
			6 - # 9 x 12'-0" Top @ Grid LL	D	1 @ 2"o.c., 10 @ 5"o.c.		
			4 - # 9 x 32'-0" Bot @ Grid LL	E	Rest @ 10"o.c.	S3	
			2 - # 8 x 20'-0" Bot @ Mid-Span	B			
G112	30"	25"	6 - # 8 x 19'-0" Top @ Grid KK	D	3 - Set Of #4		
			4 - # 9 x 28'-0" Bot @ Grid KK	B	1 @ 2"o.c., 10 @ 5"o.c.		
			2 - # 9 x 18'-0" Bot @ Mid-Span	B	Rest @ 10"o.c.	S3	
G113	30"	25"	6 - # 9 x 22'-0" Top @ Grid EE	A	3 - Set Of #4		
			6 - # 9 x 28'-0" Bot @ Grid EE	C	1 @ 2"o.c., 10 @ 5"o.c.		
					Rest @ 10"o.c.	S3	
G114	30" 28" @ RECESS	25"	6 - # 10 x 18'-0" Top @ Grid FF	B	3 - Set Of #4		
					1 @ 2"o.c., 10 @ 5"o.c.		
					Rest @ 10"o.c.	S3	
G115	30" 28" @ RECESS	25"	4 - # 8 x 18'-0" Top @ Mid-Span	B	3 - Set Of #4		
			Re: G116 For Top Bar @ Grid GG	B	1 @ 2"o.c., 10 @ 5"o.c.		
			ADD'L 2 - 10 X 14'-0" top @ Grid GG	B	Rest @ 10"o.c.	S3	
			4 - # 9 x 32'-0" Bot @ Mid-Span	B			
			2 - # 9 x 22'-0" Bot @ Mid-Span	B			
G116	30" 28" @ RECESS	25"	4 - # 10 x 36'-0" Top Center @ Mid-Span	B	3 - Set Of #4		
			ADD'L 2 - 10 X 16'-0" top @ Grid HH	B	1 @ 2"o.c., 10 @ 5"o.c.		
			4 - # 9 x 22'-0" Bot @ Mid-Span	B	Rest @ 10"o.c.	S3	
G117	30" 28" @ RECESS	25"	6 - # 8 x 19'-0" Top @ Grid KK	B	3 - Set Of #4		
			4 - # 9 x 28'-0" Bot @ Grid KK	B	1 @ 2"o.c., 10 @ 5"o.c.		
			2 - # 9 x 18'-0" Bot @ Mid-Span	B	Rest @ 10"o.c.	S3	

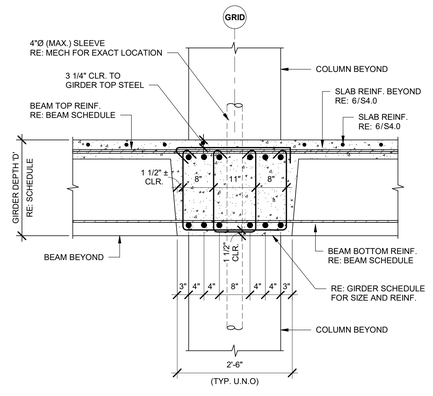
NEW BUILDING CONCRETE GIRDER SCHEDULE

BEAM MARK	SIZE WIDTH	SIZE DEPTH	REINFORCING LONGITUDINAL REINFORCING	TYPE	STIRRUP CONFIGURATION SPACING EA. END	STIRRUP CONFIGURATION TYPE	COMMENTS
RG101	30" 28" @ RECESS	25"	6 - # 9 x 22'-0" Top @ Grid EE	A	3 - Set Of #4		
			6 - # 11 x 18'-0" Top @ Grid FF	B	1 @ 2"o.c., 10 @ 5"o.c.		
			4 - # 9 x 28'-0" Bot @ Grid EE	C	Rest @ 10"o.c.	S3	
			2 - # 10 x 18'-0" Bot @ Mid-Span	B			
RG102	2 30" 28" @ RECESS	25"	4 - # 8 x 18'-0" Top @ Mid-Span	B	3 - Set Of #4		
			6 - # 11 x 18'-0" Top @ Grid GG	B	1 @ 2"o.c., 10 @ 5"o.c.		
			4 - # 9 x 32'-0" Bot @ Mid-Span	B	Rest @ 10"o.c.	S3	
			2 - # 9 x 22'-0" Bot @ Mid-Span	B			
RG103	30" 28" @ RECESS	25"	4 - # 8 x 18'-0" Top @ Mid-Span	B	3 - Set Of #4		
			6 - # 9 x 12'-0" Top @ Grid JJ	D	1 @ 2"o.c., 10 @ 5"o.c.		
			4 - # 9 x 32'-0" Bot @ Grid JJ	E	Rest @ 10"o.c.	S3	
			2 - # 10 x 22'-0" Bot @ Mid-Span	B			
RG104	30"	25"	6 - # 9 x 22'-0" Top @ Grid EE	A	3 - Set Of #4		
			6 - # 11 x 18'-0" Top @ Grid FF	B	1 @ 2"o.c., 10 @ 5"o.c.		
			4 - # 9 x 28'-0" Bot @ Grid EE	C	Rest @ 10"o.c.	S3	
			2 - # 9 x 18'-0" Bot @ Mid-Span	B			
RG105	30"	25"	4 - # 8 x 18'-0" Top @ Mid-Span	B	3 - Set Of #4		
			6 - # 11 x 18'-0" Top @ Grid GG	B	1 @ 2"o.c., 10 @ 5"o.c.		
			4 - # 9 x 32'-0" Bot @ Mid-Span	B	Rest @ 10"o.c.	S3	
			2 - # 10 x 22'-0" Bot @ Mid-Span	B			
RG105A	30"	25"	4 - # 8 x 18'-0" Top @ Mid-Span	B	3 - Set Of #4		
			6 - # 11 x 22'-0" Top @ Grid GG	B	1 @ 2"o.c., 10 @ 5"o.c.		
			Extend 13'-0" to each of Grid GG		Rest @ 10"o.c.	S3	
			4 - # 9 x 32'-0" Bot @ Mid-Span	B			
			2 - # 10 x 22'-0" Bot @ Mid-Span	B			
RG106	30"	25"	4 - # 8 x 18'-0" Top @ Mid-Span	B	3 - Set Of #4		
			6 - # 10 x 12'-0" Top @ Grid JJ	D	1 @ 2"o.c., 10 @ 5"o.c.		
			4 - # 9 x 32'-0" Bot @ Grid JJ	E	Rest @ 10"o.c.	S3	
			2 - # 10 x 22'-0" Bot @ Mid-Span	B			
RG106A	22"	36"	6 - # 8 x 20'-0" Top @ Mid-Span	B	3 - Set Of #4		RE: 2/S4.3 For Additional Reinf.
			Re: G105A for Top Bar @ Grid GG		1 @ 2"o.c., 10 @ 5"o.c.		
			6 - # 10 x 16'-0" Top @ Grid JJ.8	D	Rest @ 10"o.c.	S3	
			4 - # 11 x 40'-0" Bot @ Grid JJ.8	B			
RG107	30"	25"	6 - # 9 x 22'-0" Top @ Grid EE	A	3 - Set Of #4		
			6 - # 11 x 18'-0" Top @ Grid FF	B	1 @ 2"o.c., 10 @ 5"o.c.		
			4 - # 9 x 28'-0" Bot @ Grid EE	C	Rest @ 10"o.c.	S3	
			2 - # 9 x 18'-0" Bot @ Mid-Span	B			
RG108	30"	25"	4 - # 8 x 18'-0" Top @ Mid-Span	B	3 - Set Of #4		
			Re: G109 For Top Bar @ Grid GG	B	1 @ 2"o.c., 10 @ 5"o.c.		
			ADD'L 2 - #10 x 14'-0" top @ Grid GG	B	Rest @ 10"o.c.	S3	
			4 - # 9 x 32'-0" Bot @ Mid-Span	B			
			2 - # 9 x 22'-0" Bot @ Mid-Span	B			
RG109	30"	25"	4 - # 10 x 36'-0" Top Center @ Mid-Span	B	3 - Set Of #4		
			ADD'L 2 - #10 x 16'-0" top @ Grid HH	B	1 @ 2"o.c., 10 @ 5"o.c.		
			6 - # 8 x 22'-0" Bot @ Mid-Span	B	Rest @ 10"o.c.	S3	
RG110	30"	25"	2 - 6 - # 10 x 18'-0" Top @ Grid KK	B	3 - Set Of #4		
					1 @ 2"o.c., 10 @ 5"o.c.		
			4 - # 8 x 12'-0" Top @ Mid-Span	B	Rest @ 10"o.c.	S3	
			4 - # 9 x 26'-0" Bot @ Mid-Span	B			
			2 - # 9 x 18'-0" Bot @ Mid-Span	B			
RG111	2 31"	25"	2 - 4 - # 7 x 16'-0" Top @ Mid-Span	B	3 - Set Of #4		
			6 - # 9 x 12'-0" Top @ Grid LL	D	1 @ 2"o.c., 10 @ 5"o.c.		
			4 - # 9 x 32'-0" Bot @ Grid LL	E	Rest @ 10"o.c.	S3	
			2 - # 8 x 20'-0" Bot @ Mid-Span	B			
RG112	30"	25"	6 - # 8 x 19'-0" Top @ Grid KK	D	3 - Set Of #4		
			4 - # 9 x 28'-0" Bot @ Grid KK	B	1 @ 2"o.c., 10 @ 5"o.c.		
			2 - # 9 x 18'-0" Bot @ Mid-Span	B	Rest @ 10"o.c.	S3	
RG113	30"	25"	6 - # 9 x 22'-0" Top @ Grid EE	A	3 - Set Of #4		
			6 - # 9 x 28'-0" Bot @ Grid EE	C	1 @ 2"o.c., 10 @ 5"o.c.		
					Rest @ 10"o.c.	S3	
RG114	30" 28" @ RECESS	25"	6 - # 11 x 18'-0" Top @ Grid FF	B	3 - Set Of #4		
					1 @ 2"o.c., 10 @ 5"o.c.		
					Rest @ 10"o.c.	S3	
RG115	30" 28" @ RECESS	25"	4 - # 8 x 18'-0" Top @ Mid-Span	B	3 - Set Of #4		
			Re: G116 For Top Bar @ Grid GG	B	1 @ 2"o.c., 10 @ 5"o.c.		
			ADD'L 2 - 10 X 14'-0" top @ Grid GG	B	Rest @ 10"o.c.	S3	
			4 - # 9 x 32'-0" Bot @ Mid-Span	B			
			2 - # 9 x 22'-0" Bot @ Mid-Span	B			
RG116	30" 28" @ RECESS	25"	4 - # 10 x 36'-0" Top Center @ Mid-Span	B	3 - Set Of #4		
			ADD'L 2 - 10 X 16'-0" top @ Grid HH	B	1 @ 2"o.c., 10 @ 5"o.c.		
			4 - # 9 x 22'-0" Bot @ Mid-Span	B	Rest @ 10"o.c.	S3	
RG117	30" 28" @ RECESS	25"	6 - # 8 x 19'-0" Top @ Grid KK	B	2 - Set Of #4		
			4 - # 9 x 28'-0" Bot @ Grid KK	B	1 @ 2"o.c., 10 @ 5"o.c.		
			2 - # 9 x 18'-0" Bot @ Mid-Span	B	Rest @ 10"o.c.	S3	

3 GIRDER SCHEDULE



2 SECTION THROUGH GIRDER
N.T.S.



1 TYPICAL GIRDER SECTION @ DOUBLE STIRRUPS
N.T.S.

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PROFESSIONAL ENGINEER
Krishna G. Shah 02/07/2023
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CONSTRUCTION DOCUMENTS

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ASC EXPANSION & RENOVATION
100 NE Saint Luke's Blvd
Lee's Summit, MO 64086

Date	02/07/2023
Job Number	3-21037
Drawn By	GEB
Checked By	KGS

Revision

Number	Date	Description
2	02-10-23	ADDENDUM #2

GRADING, FOOTING, AND FOUNDATION PACKAGE

S4.3

GIRDER SCHEDULE AND DETAILS

2/10/2023 5:02:14 PM C:\Users\gbriscoe\Documents\XX-2022011-R21_djfoxx.rvt