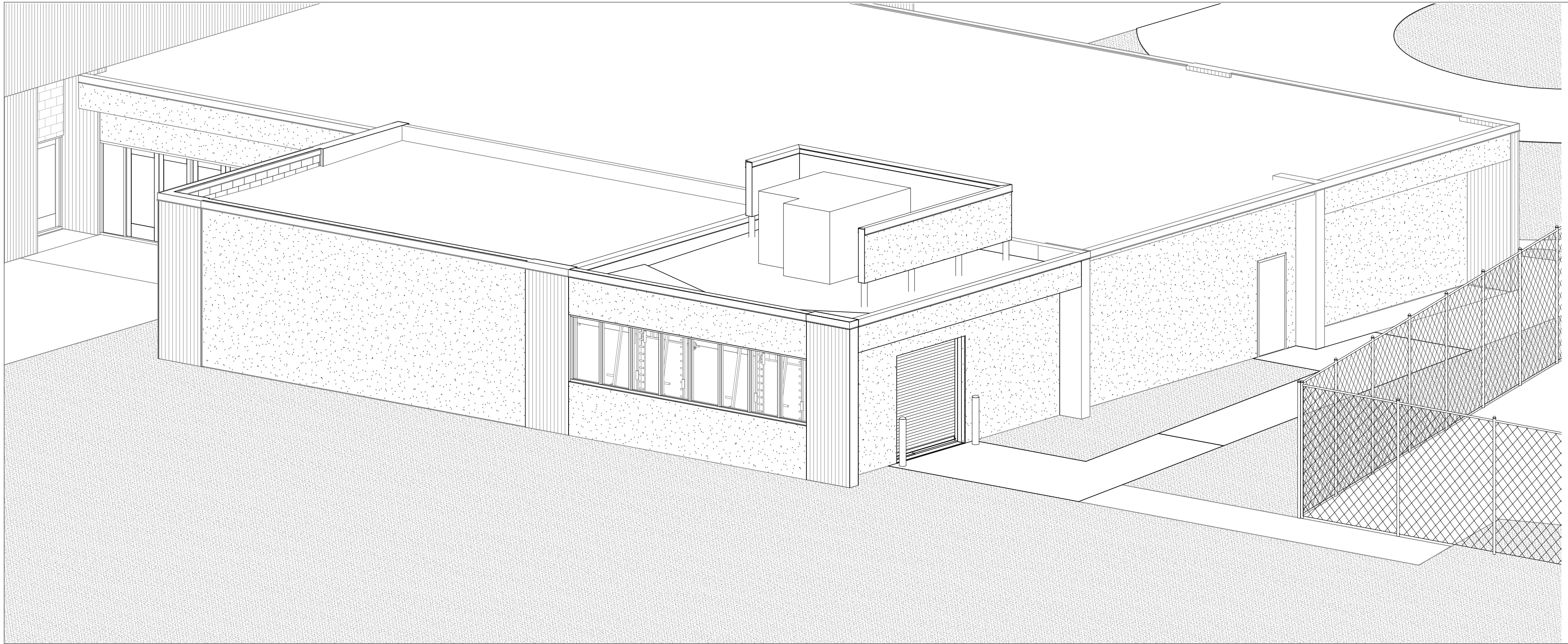


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KCKCC FIELD HOUSE ADDITION

CONSTRUCTION SET



DRAWING LIST	
3 - ARCHITECTURE	
A0.00	COVER
A0.01	CODE REVIEW
D1.01	DEMO PLANS
SP1.01	SITE PLAN
A1.01	FLOOR PLAN & REFLECTED CEILING PLAN
A1.02	ROOF PLAN
A2.01	ELEVATIONS
A2.02	BUILDING SECTIONS
A3.01	WALL SECTIONS & DETAILS
A4.01	INTERIOR ELEVATIONS
A6.01	DOOR SCHEDULE
A7.01	FINISH SCHEDULE
4 - STRUCTURAL	
S0.01	GENERAL NOTES
S0.02	CMU DETAILS
S1.01	STRUCTURAL PLANS
S2.01	SECTIONS
S2.02	SECTIONS
5 - MECHANICAL, PLUMBING & ELECTRICAL	
MEP0.1	MEP SPECIFICATIONS
MEP 0.0	MECHANICAL COVER SHEET
MEP 1.0	MEP DEMOLITION PLAN
M1.0	MECHANICAL PLANS
E1.0	ELECTRICAL PLANS
E2.0	ELECTRICAL SCHEDULES AND DETAILS

SYMBOLS	
Detail Number	
Detail Section	
Sheet Number	
Detail Number	
Building Section	
Sheet Number	
Detail Number	
Callout	
Sheet Number	
Detail Number	
Elevation	
Sheet Number	
Room Name	
Room Designation	
Room Number	
Door Number	
Wall Type	
Window Designation	
Keynote Designation	
Spot Elevation	
Revision Symbol	

I HEREBY CERTIFY THAT THE DOCUMENTS INTENDED TO BE AUTHENTICATED BY MY SEAL ARE LIMITED TO THE COVER AND THOSE SHEETS LISTED UNDER THE ARCHITECTURAL HEADER OF THE DRAWING LIST. I HEREBY DISCLAIM RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OF PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

PRINCIPAL
DATE 10.04.23

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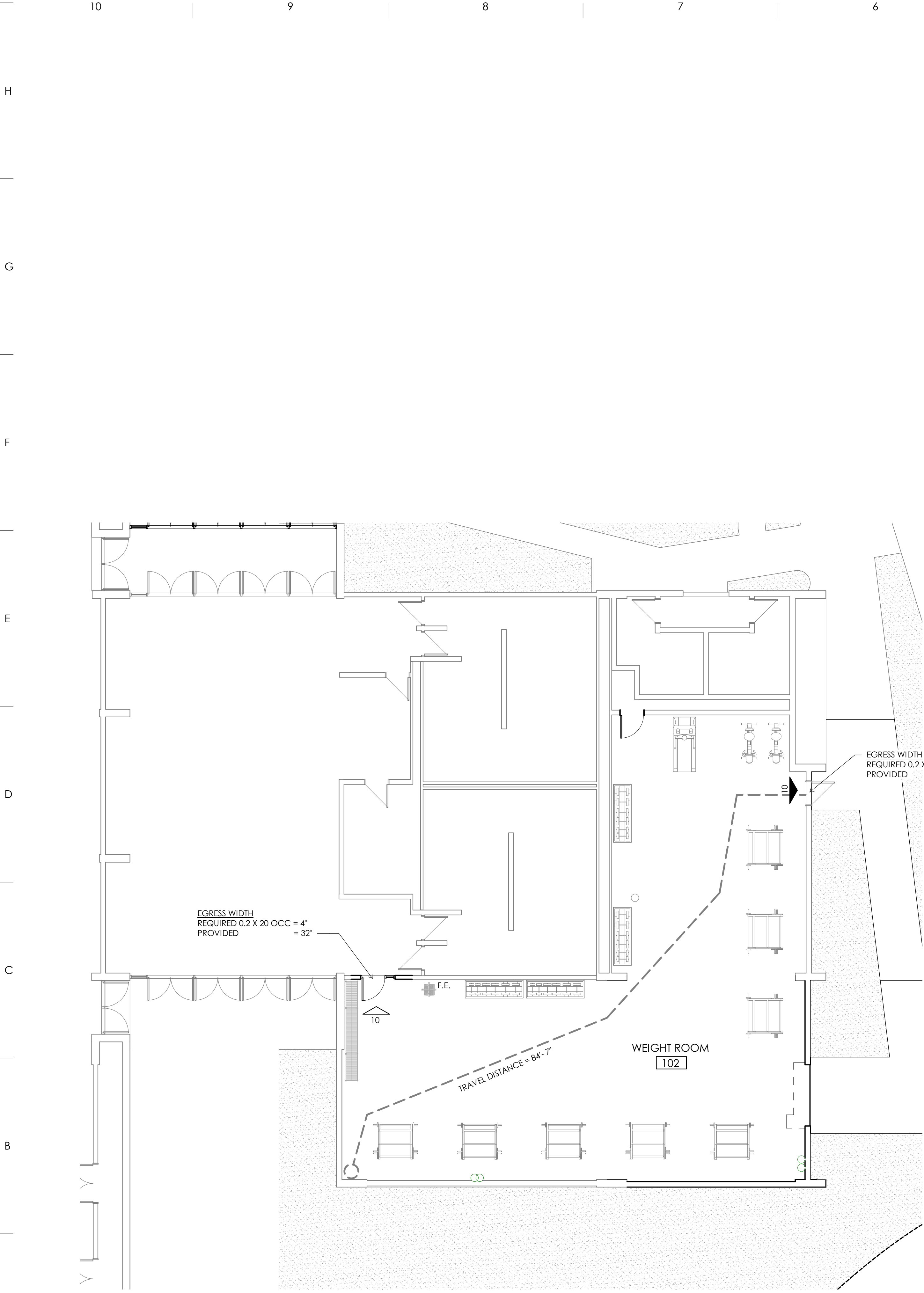
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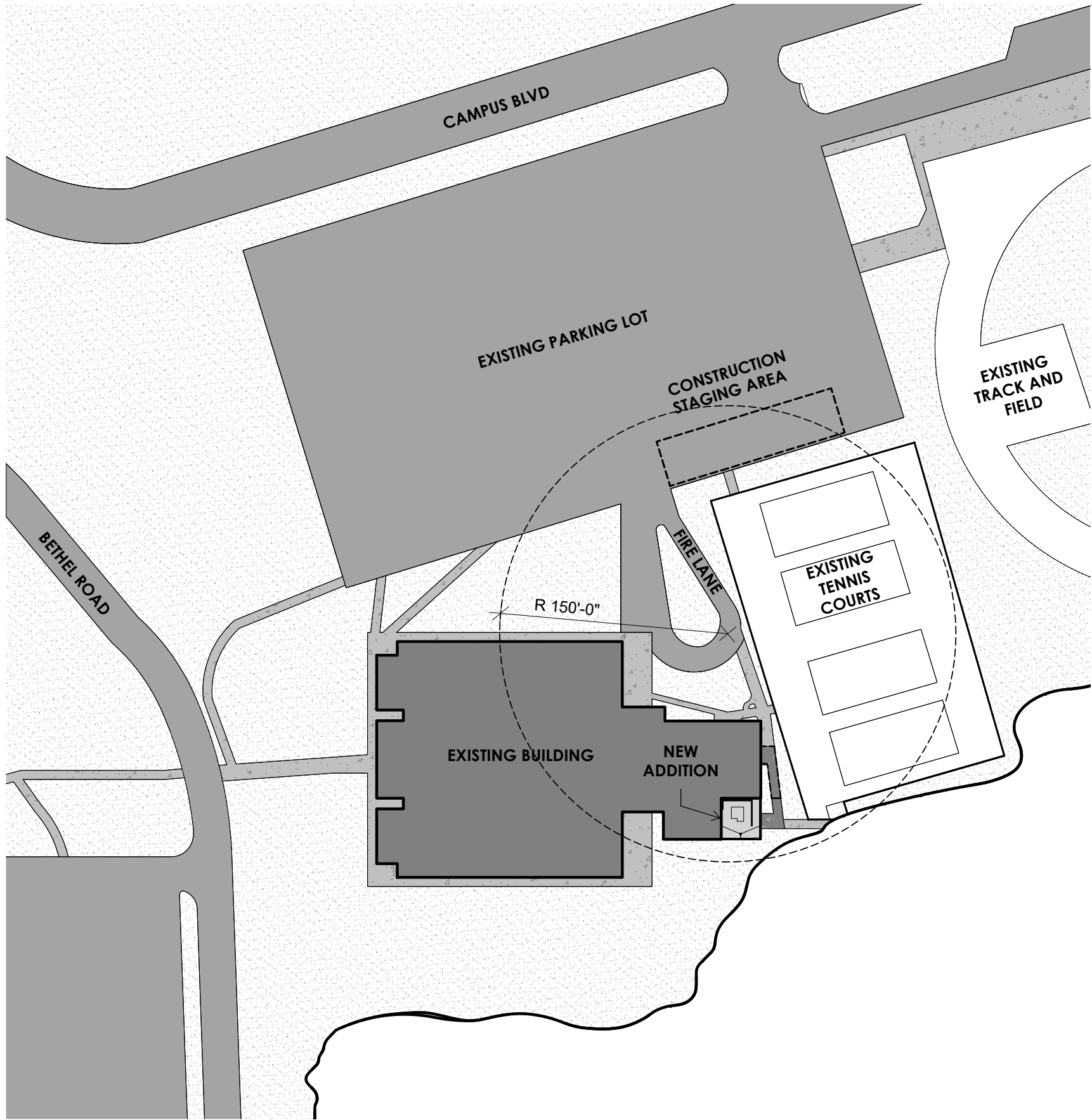
COVER

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A8 CODE PLAN
1/8" = 1'-0"



A5 SITE CODE PLAN
1" = 80'-0"

NOTE: EXACT SIZING OF THE CONSTRUCTION STAGING AREA CAN BE WORKED THROUGH WITH KCKCC AFTER BID HAS BEEN AWARDED

LEGEND	ADOPTED CODES
<div><div><div><div><div><div></div><div>15</div></div><div>DIRECTION OF TRAVEL</div></div><div><div><div></div><div>15</div></div><div>COMBINED OCCUPANCY LOAD</div></div></div><div><div><div><div><div></div><div>15</div></div><div>DIRECTION OF TRAVEL</div></div><div><div><div></div><div>15</div></div><div>ROOM OCCUPANCY LOAD</div></div></div><div><div><div></div><div>F.E.</div><div>FIRE EXTINGUISHER & BRACKET</div></div><div><div><div></div><div>F.E.C.</div><div>FIRE EXTINGUISHER & CABINET</div></div></div></div></div></div></div>	<div>KANSAS CITY, KANSAS</div> <div>2018 INTERNATIONAL BUILDING CODE 2018 INTERNATIONAL PLUMBING CODE 2018 INTERNATIONAL MECHANICAL CODE 2018 INTERNATIONAL FUEL GAS CODE 2017 NATIONAL ELECTRICAL CODE 2018 INTERNATIONAL FIRE CODE 2018 INTERNATIONAL ENERGY CONSERVATION CODE 2017 ANSI A117.1 2014 ICC 500</div>
ENERGY EFFICIENCY TABLE	CODE REVIEW INFORMATION
<div><div><div>ZONE</div><div>4A</div></div><div><div>OPAQUE THERMAL ENVELOPE</div><div>ROOF</div><div>INSULATION ABOVE DECK - R-30ci (U0.032/U0.021)</div><div>WALLS, ABOVE GRADE</div><div>MASS - R-9.5ci (U-0.104)</div><div>WALLS, BELOW GRADE</div><div>R-7.5ci (C- 0.119)</div><div>UNHEATED SLABS</div><div>R-10 FOR 24" BELOW</div><div>OPAQUE DOORS</div><div>NON SWINGING - R-4.75</div><div>VERTICAL FENESTRATION</div><div>ENTRANCE DOOR</div><div>U-0.77 (R-1.3)</div><div>FIXED FENESTRATION</div><div>U-0.36 (R-2.63)</div><div>OPERABLE FENESTRATION</div><div>U-0.43 (R-2.23)</div></div></div>	<div><div>CONSTRUCTION TYPE</div><div>II-B</div></div> <div><div>USE AND OCCUPANCY</div><div>A-3 - 20 OCCUPANTS (ACTUAL OCCUPANT LOAD CALCULATED BASED OFF OF WEIGHT ROOM EQUIPMENT)</div></div> <div><div>OCCUPANCY COUNT CALCULATION</div><div>REFER TO ROOM OCCUPANCY SCHEDULE & CODE PLAN</div><div>TOTAL OCCUPANCY: 20 OCCUPANTS</div></div> <div><div>BUILDING HEIGHT (PER TABLE 504.3 & 504.4)</div><div>A-3 ALLOWABLE 3 STORIES (55 FT)</div><div>ACTUAL 1 STORY (13 FT)</div></div> <div><div>BUILDING AREA (PER TABLE 504.2)</div><div>OVERALL BUILDING (A-4) ALLOWABLE 38,000 SF</div><div>ACTUAL 34,988 SF</div></div> <div><div>NEW ADDITION (A-3) ALLOWABLE 9500 SF</div><div>ACTUAL 2,451 SF</div></div> <div><div>MIXED USE AND OCCUPANCY</div><div>SEPARATED OCCUPANCIES (PER TABLE 508.4)</div><div>N/A</div></div> <div><div>REQUIRED EGRESS</div><div>TOTAL EGRESS WIDTH PROVIDED</div><div>SEE CODE PLAN FOR WIDTHS AT EACH EXIT</div><div>TOTAL EXITS PROVIDED (PER TABLE 1006.3.2)</div><div>REQUIRED 2</div><div>PROVIDED 2</div><div>MAX TRAVEL DISTANCE (PER TABLE 1017.2)</div><div>REQUIRED 200 FT</div><div>PROVIDED 85 FT</div></div> <div><div>CHAPTER 6 TYPE OF CONSTRUCTION</div><div>FIRE RESISTANCE REQUIREMENTS (TABLE 601)</div><div>STRUCTURAL FRAME 0 HR</div><div>EXTERIOR BEARING WALLS 0 HR</div><div>INTERIOR BEARING WALLS 0 HR</div><div>INTERIOR NON-BEARING WALLS 0 HR</div><div>FLOOR CONSTRUCTION 0 HR</div><div>ROOF CONSTRUCTION 0 HR</div></div> <div><div>CHAPTER 8 INTERIOR FINISHES</div><div>FINISH REQUIREMENTS BY OCCUPANCY (TABLE 803.13)</div><div>ROOMS AND ENCLOSED SPACE - C</div></div> <div><div>CHAPTER 9 FIRE PROTECTION SYSTEMS</div><div>PORTABLE FIRE EXTINGUISHERS</div><div>MAX TRAVEL DISTANCE 75 FT</div></div> <div><div>CHAPTER 29 PLUMBING SYSTEMS</div><div>FIXTURE REQUIREMENTS (TABLE 2902.1)</div><div>A-3 OCCUPANCY = 20</div><div>WATER CLOSETS REQUIRED</div><div>X OCC = 20 OCC / 2 = 10 OCC</div><div>MEN = 1/75= 10/75 = 0.25 WC</div><div>WOMEN = 1/40 = 10/40 = 0.25 WC</div><div>WATER CLOSETS PROVIDED</div><div>MEN = 00 WC</div><div>WOMEN = 00 WC</div><div>LAVATORIES REQUIRED</div><div>X OCC = 20 OCC / 2 = 25 OCC</div><div>MEN = 10/200 = 10/200 = 0.05 LAV</div><div>WOMEN = 10/150 = 10/150 = 0.05 LAV</div><div>LAVATORIES PROVIDED</div><div>MEN = 00 LAV</div><div>WOMEN = 00 LAV</div><div>DRINKING FOUNTAINS REQUIRED</div><div>X OCC = 20 OCC</div><div>1/1000 = 20/1000 = 1 DF</div><div>DRINKING FOUNTAINS PROVIDED</div><div>TOTAL = 0 DF (EXISTING DRINKING FOUNTAIN SERVES AREA)</div><div>SERVICE SINK REQUIRED</div><div>20 OCC = 1 SERVICE SINK</div><div>SERVICE SINK PROVIDED</div><div>TOTAL = 1 SERVICE SINK (EXISTING SERVICE SINK SERVES AREA)</div></div>



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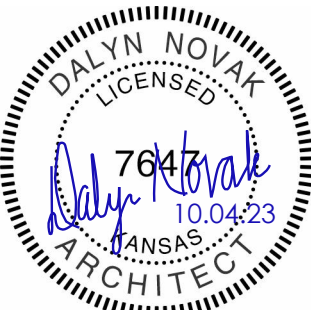
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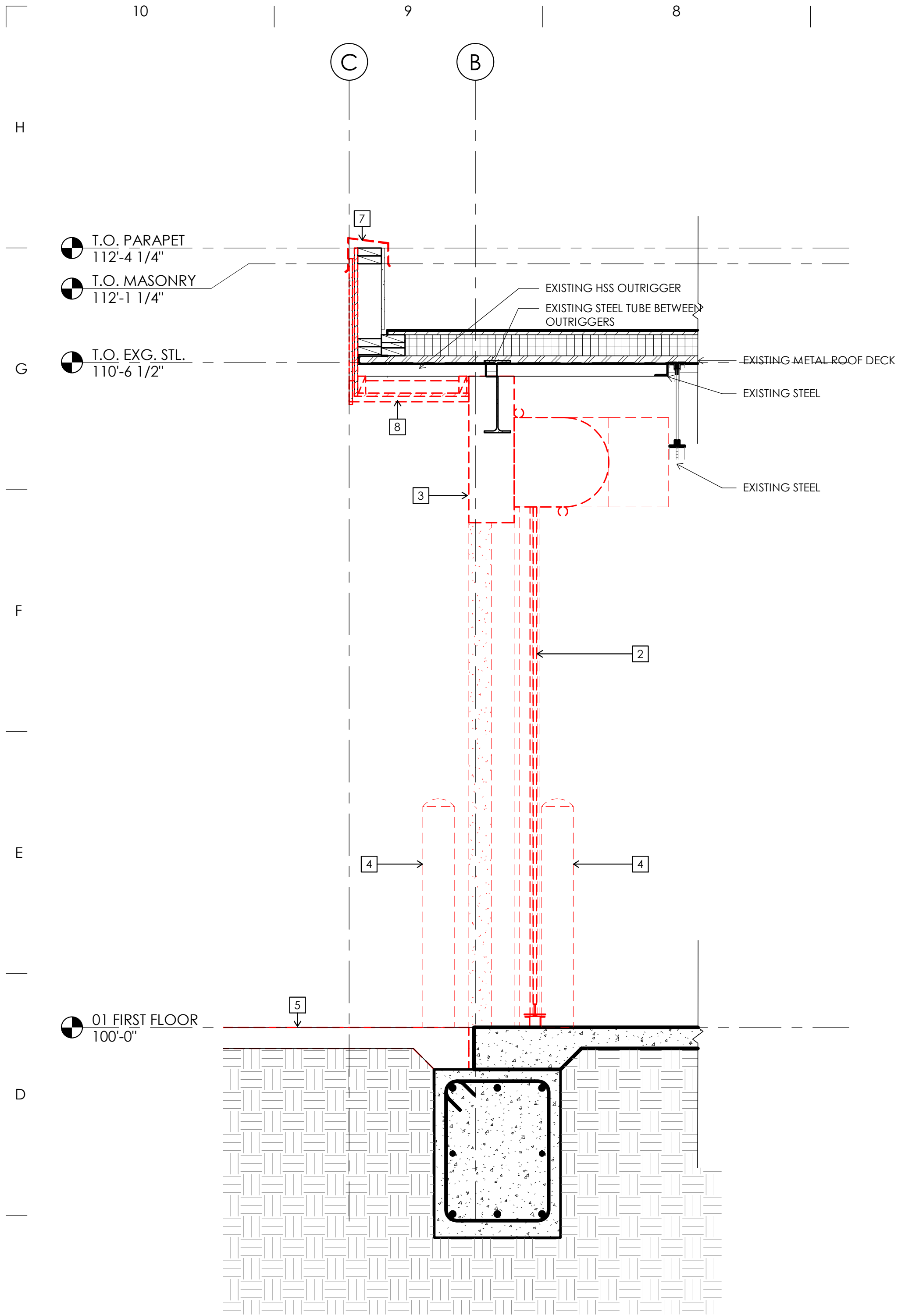
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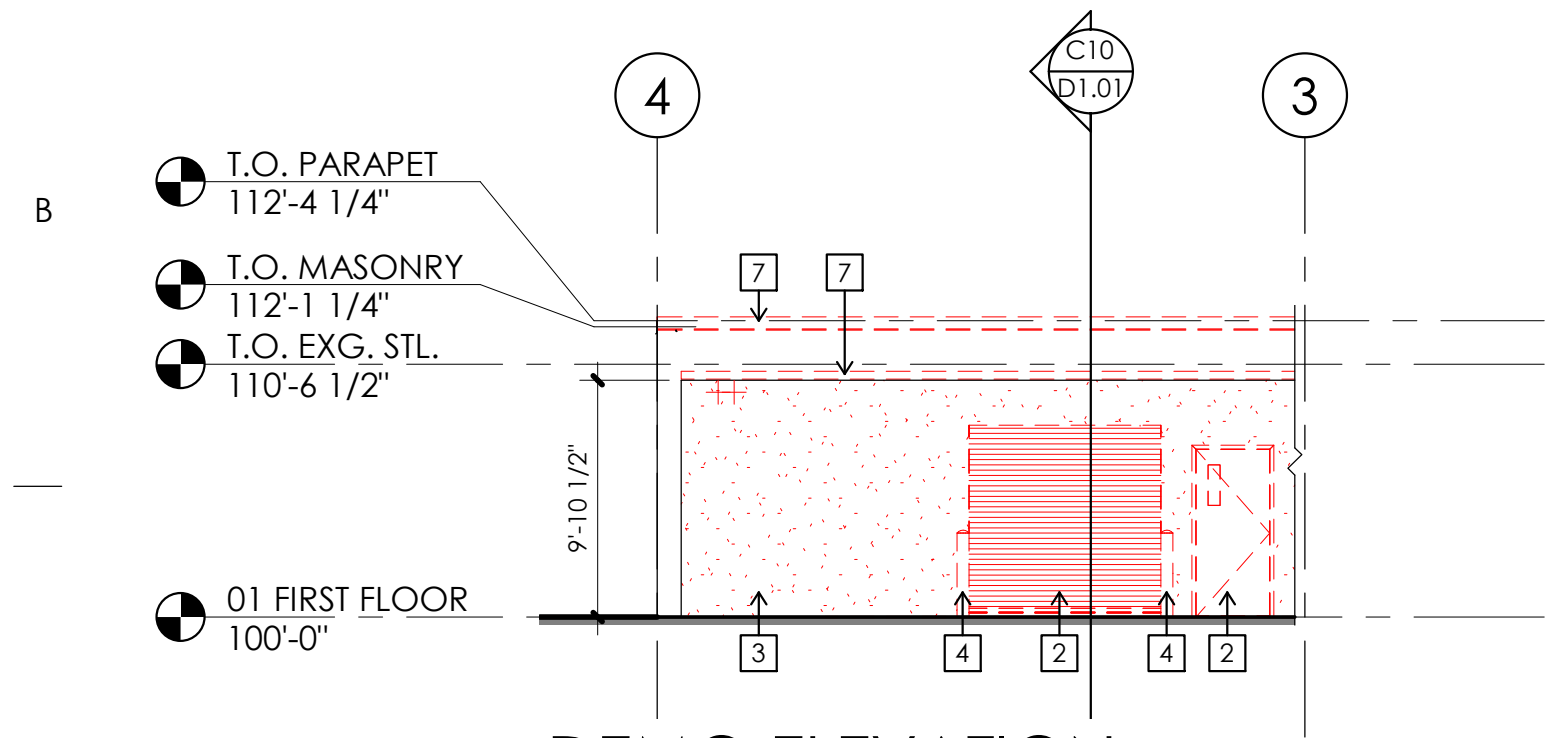
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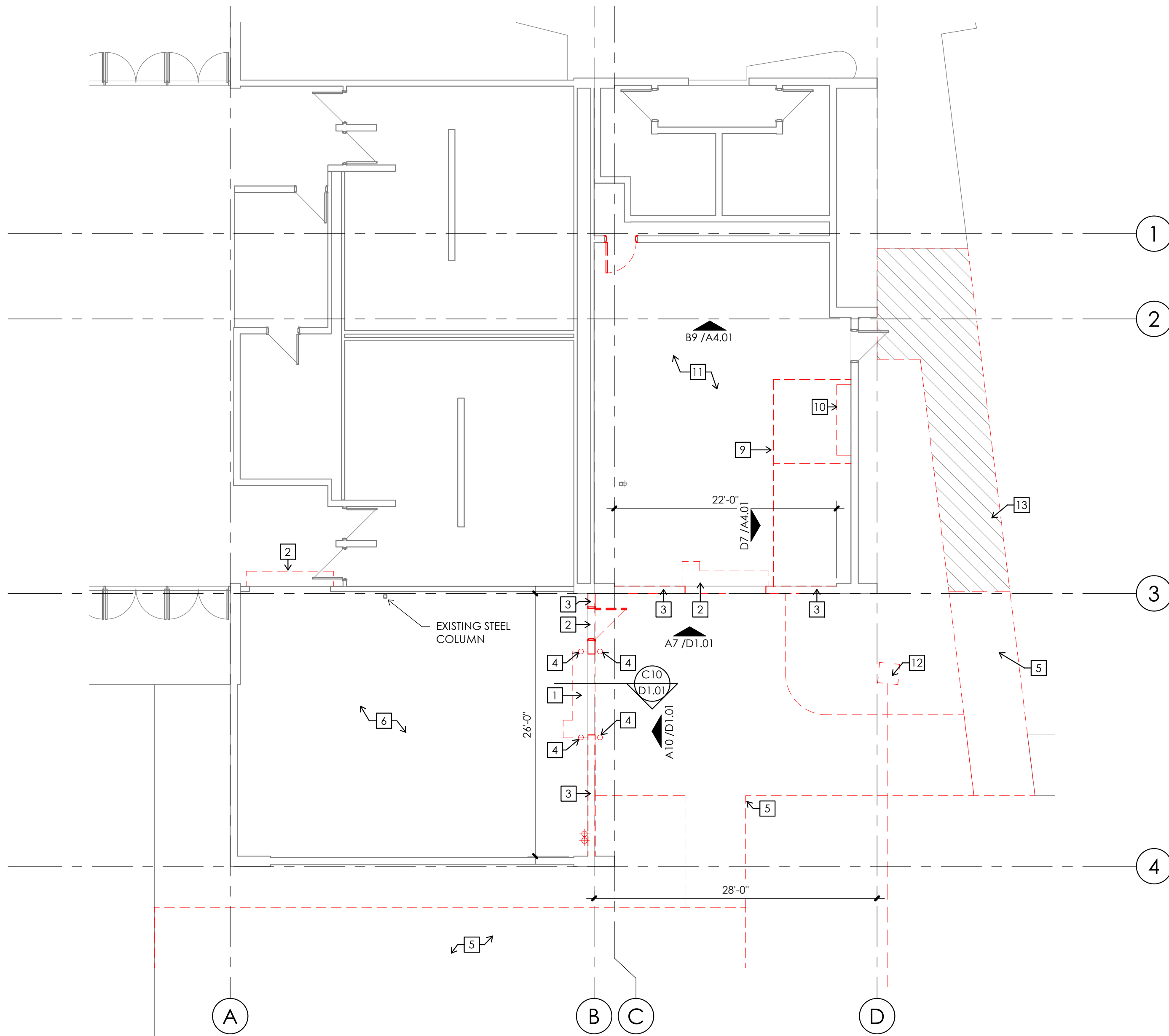
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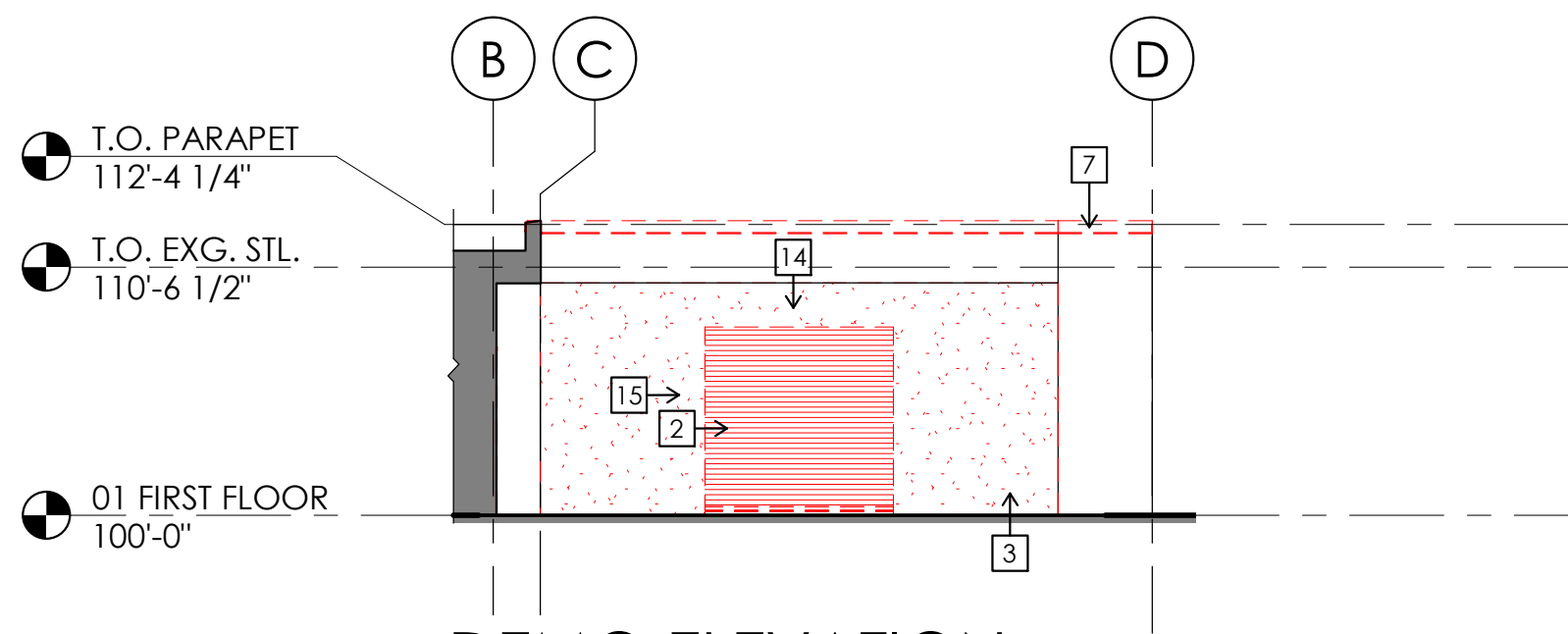
C10
3/4" = 1'-0"



A10
1/8" = 1'-0"



C7
1/8" = 1'-0"



A7
1/8" = 1'-0"

GENERAL NOTES:

1. THIS DRAWING REPRESENTS THE GENERAL SCOPE OF CONTRACTOR REQUIRED DEMOLITION FOR THE REFERENCED AREA. REFER TO NEW CONSTRUCTION DRAWING FOR REQUIRED WORK THAT MAY NOT BE REPRESENTED IN THIS DRAWING.
2. CONTRACTOR TO REVIEW ALL EXISTING CONDITIONS AND ADVISE ARCHITECT / ENGINEER OF ALL DESIGN DOCUMENT DISCREPANCIES.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND EXISTING CONDITIONS. ANY DISCREPANCIES WHICH WILL PREVENT THE ACCOMPLISHMENT OF INTENT SHOWN ON DRAWINGS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.
4. WHERE A CONDITION IS NOTED 'TYP.', IT IS UNDERSTOOD THAT ALL SIMILAR CONDITIONS BE CONSTRUCTED OF THE SAME MATERIALS AND/OR DIMENSIONS.
5. ALL DIMENSIONS ARE TO FACE OF STUD, FACE OF CMU, FACE OF CONCRETE FOUNDATION WALL, OR CENTER OF STL. STRUCTURE, UNLESS NOTED OTHERWISE.
6. REMOVE ALL UNUSED/ ABANDONED CONDUIT, PATCH ANY HOLES/DAMAGE.
7. CONTRACTOR TO VERIFY EXTENTS OF EXISTING UNDERGROUND DRAINAGE SYSTEM.

DEMOLITION LEGEND:

- ELEMENTS TO BE REMOVED
- ===== WALLS TO REMAIN

DEMOLITION NOTES:

- 1 REMOVE COILING FIRE DOOR IN ITS ENTIRETY. RETAIN, TO BE USE IN NEW ADDITION.
- 2 REMOVE DOOR AND FRAME IN ITS ENTIRETY. RETAIN FOR OWNERS USE. REMOVE ASSOCIATED CONDUIT AND POWER SUPPLY, PATCH WALLS AS NEEDED.
- 3 REMOVE CONCRETE BLOCK WALL. BETWEEN CAST-IN-PLACE CONCRETE WALLS. AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. TAKE CARE NOT TO DAMAGE INTEGRAL COLOR CAST-IN-PLACE CONCRETE WALLS. REFER TO STRUCTURAL FOR EXTENT OF DEMOLITION.
- 4 REMOVE BOLLARD IN ITS ENTIRETY.
- 5 REMOVE A PORTION OF THE EXISTING CONCRETE SIDEWALK.
- 6 REMOVE EXISTING RUBBER FLOORING
- 7 REMOVE COPING AS REQ. FOR NEW ROOFING
- 8 REMOVE SOFFIT. SHEATHING, FINISH FACE OF SOFFIT AND WOOD BLOCKING
- 9 REMOVE EXISTING CAGE AND ASSOCIATED BRACKETS. FILL/ PATCH ANY HOLES/DAMAGE
- 10 REMOVE EXISTING ADJUSTABLE SHELVING AND ASSOCIATED WALL BRACKETS. FILL/PATCH ANY HOLES/DAMAGE
- 11 MECHANICALLY REMOVE EXISTING FLOOR COATING. CSP PROFILE PER NEW FLOORING MANUFACTURER'S RECOMMENDATIONS. ALL HIGH SPOTS SHALL BE GROUND LEVEL AND LOW SPOTS FILLED WITH A PORTLAND-BASED PATCHING COMPOUND.
- 12 REMOVE EXISTING GRATE. DRAINAGE TO BE RE-ROUTED PER A10/SP1.01.
- 13 ALT #2 - REMOVE A PORTION OF THE EXISTING CONCRETE SIDEWALK.
- 14 REMOVE EXISTING LIGHT RE: MEP
- 15 REMOVE EXISTING DOOR CONTROLS RE: MEP
- 16 REFER TO MEP DWGS. PARTIAL REMOVAL OF ROOF DRAIN PIPING.



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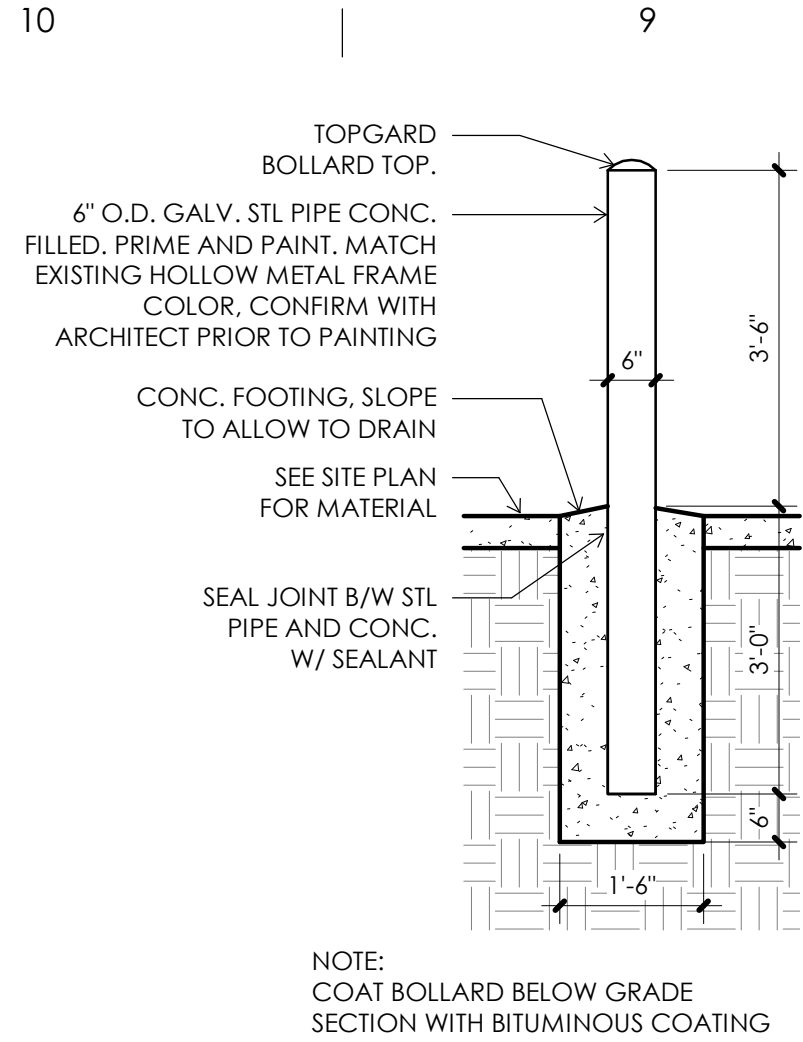
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DEMO PLANS

D1.01

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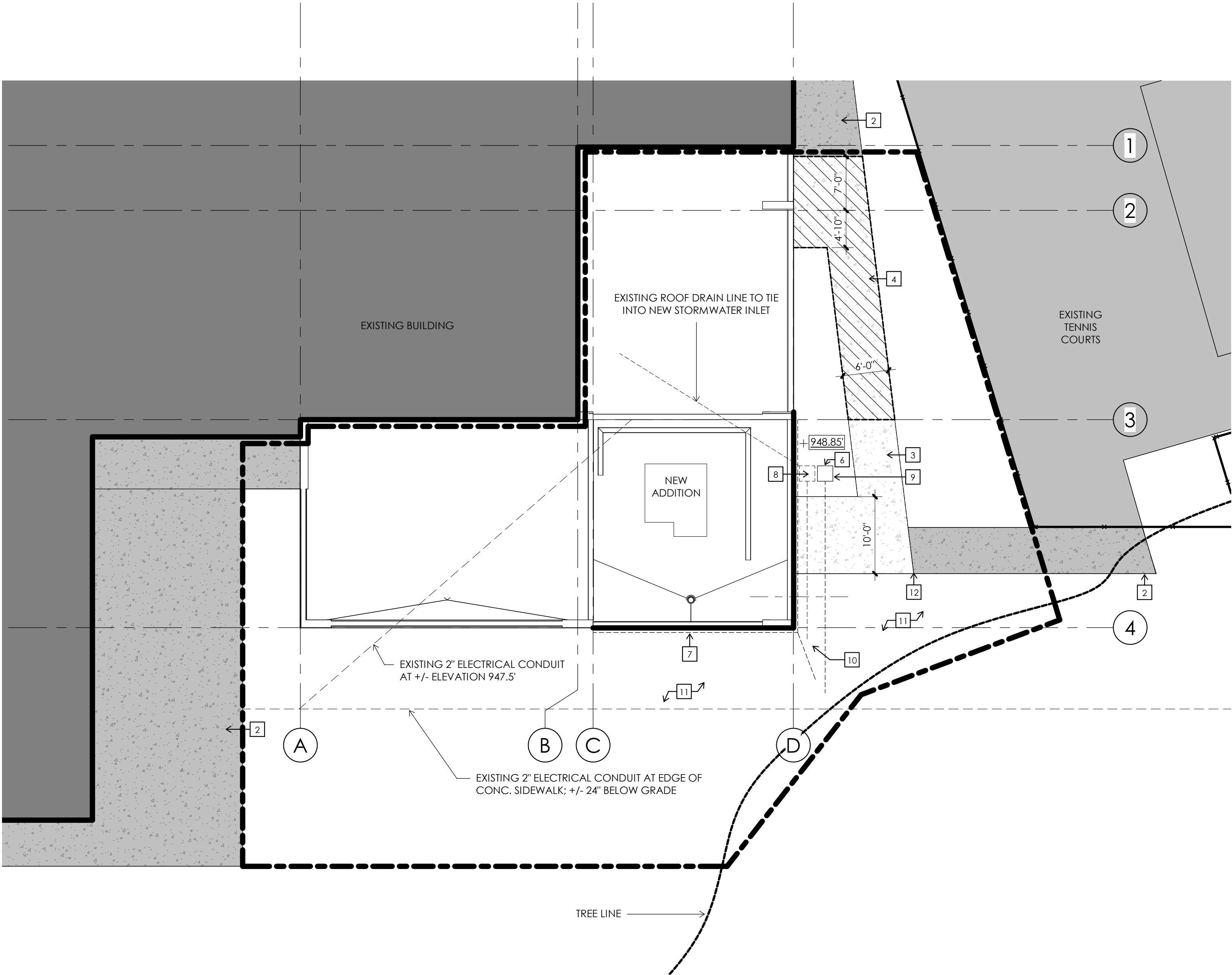
G10 BOLLARD DETAIL
1/2" = 1'-0"

GENERAL NOTES:	SITE PLAN NOTES:	SITE PLAN NOTES:	PLAN KEY:
1. CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. 2. REFER TO ARCHITECTURAL FLOOR PLANS FOR BOLLARD LOCATIONS.	1 6" BOLLARDS, RE: G10/SP1.01 & A1.01, TYP. 2 EXISTING SIDEWALK TO REMAIN. CONTRACTOR TO PROTECT AND REPAIR TO LIKE NEW IF DAMAGED. 3 NEW CONCRETE SIDEWALK ON GRADE 4 ALTERNATE #2 - NEW CONCRETE SIDEWALK ON GRADE 5 4" CONCRETE PAD 6 DRAINAGE GRATE 7 EXTENTS OF FOUNDATION DRAIN TO DAYLIGHT AT LOCATION SHOWN ON SITE PLAN; RE: A3.01 8 CONNECT EXISTING INTERNAL ROOF DRAIN TO NEW PIPE TO THE NEW STORM INLET AND DAYLIGHT STORM INLET NORTHEAST OF THE BUILDING. INTERNAL ROOF DRAIN NEEDS TO BE REROUTED TO NEW STORM INLET THAT WAS RELOCATED, BENDS TO BE NO MORE THAN 45 DEGREES 9 REGRADE AROUND THE NEW STORM INLET TO CONFIRM GRASSY AREA DRAINS PROPERLY 10 REGRADE AROUND NEW BUILDING CORNER TO BE MOWABLE 3:1 SLOPE 11 REGRADE AREA TO PROVIDE POSITIVE SLOPE AWAY FROM BUILDING 12 TIE INTO EXISTING SIDEWALK	EXISTING CONCRETE SIDEWALK TO REMAIN. CONTRACTOR TO PROTECT AND REPAIR TO LIKE NEW IF DAMAGED. 4" CONCRETE SIDEWALK ON GRADE 4" CONCRETE SIDEWALK ON GRADE - ALTERNATE #2 GRASS	APPROXIMATE LIMITS OF CONSTRUCTION UNDERGROUND ELECTRICAL UNDERGROUND DRAIN LINE

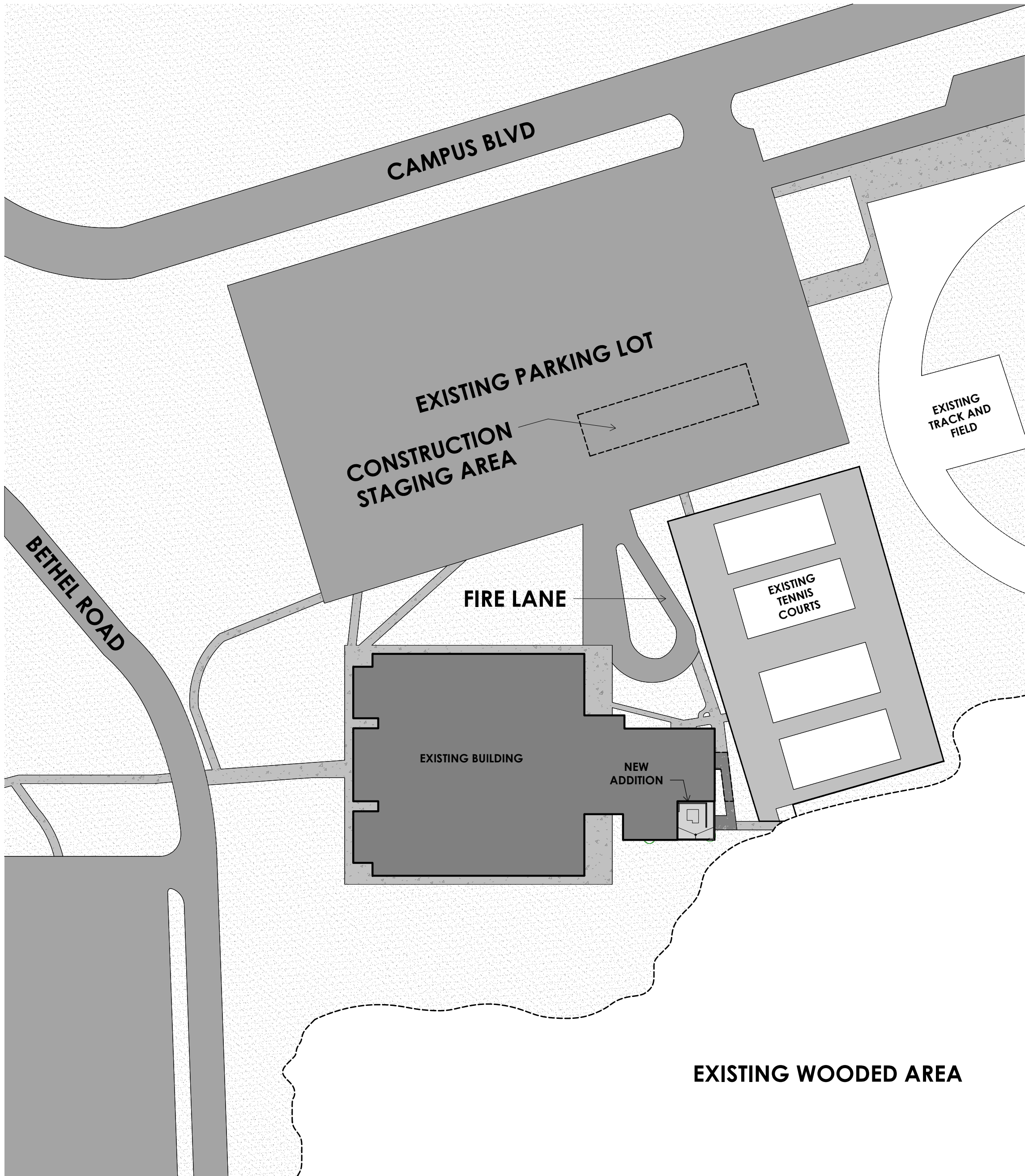


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A10 ENLARGED SITE PLAN
1" = 10'-0"
0 5' 10' 20'



A4 SITE PLAN
1" = 60'-0"
0 30' 60' 120'

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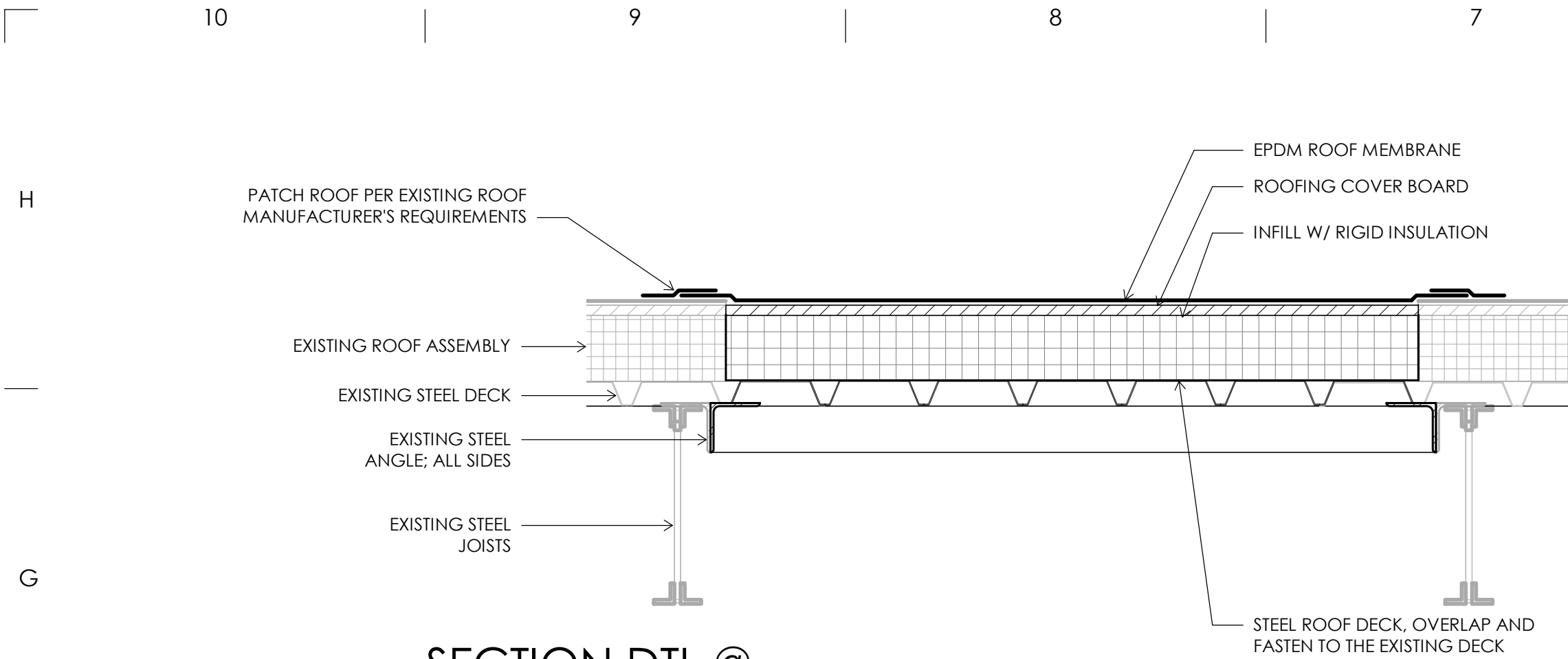
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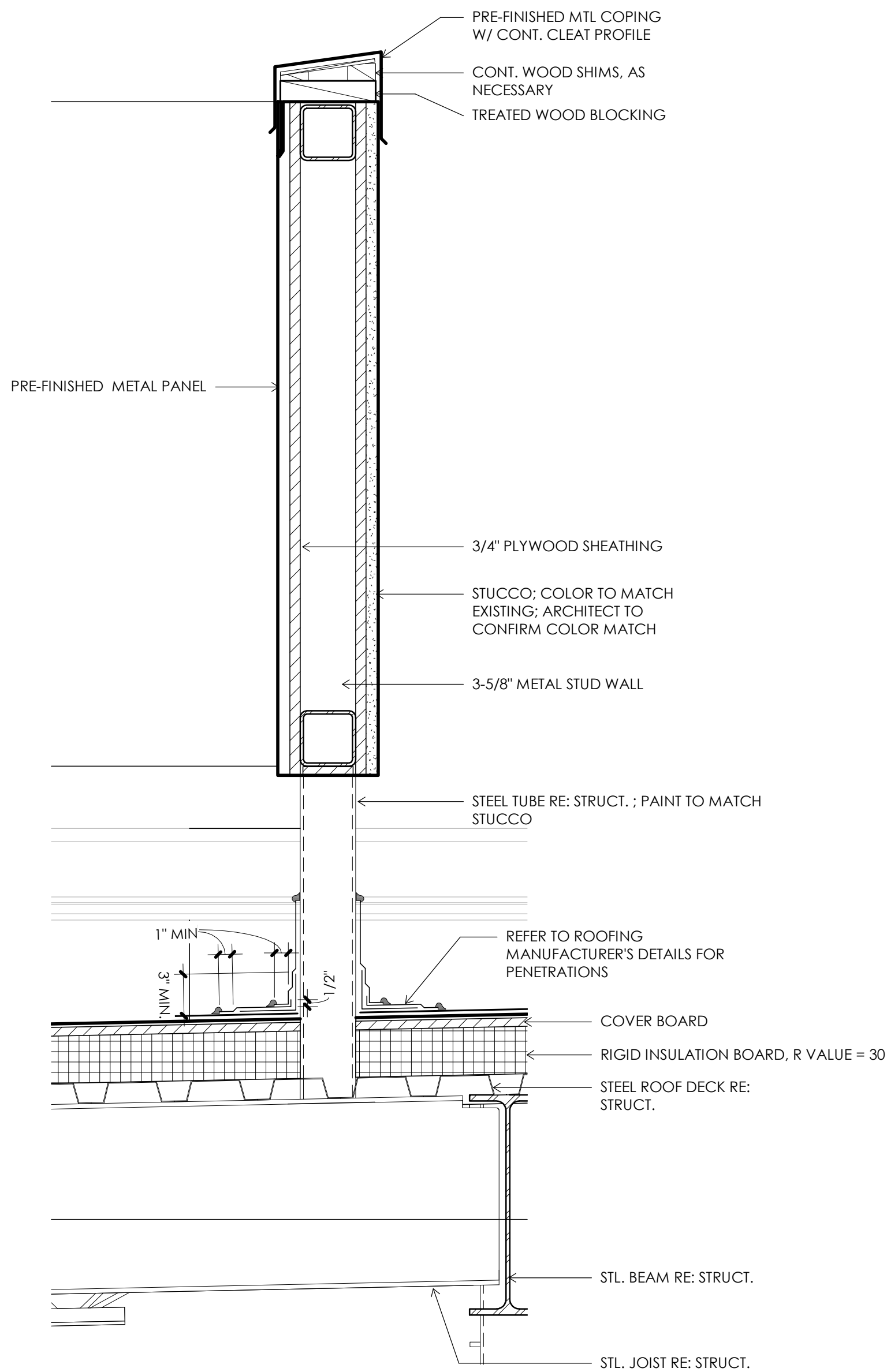
SITE PLAN

SP1.01

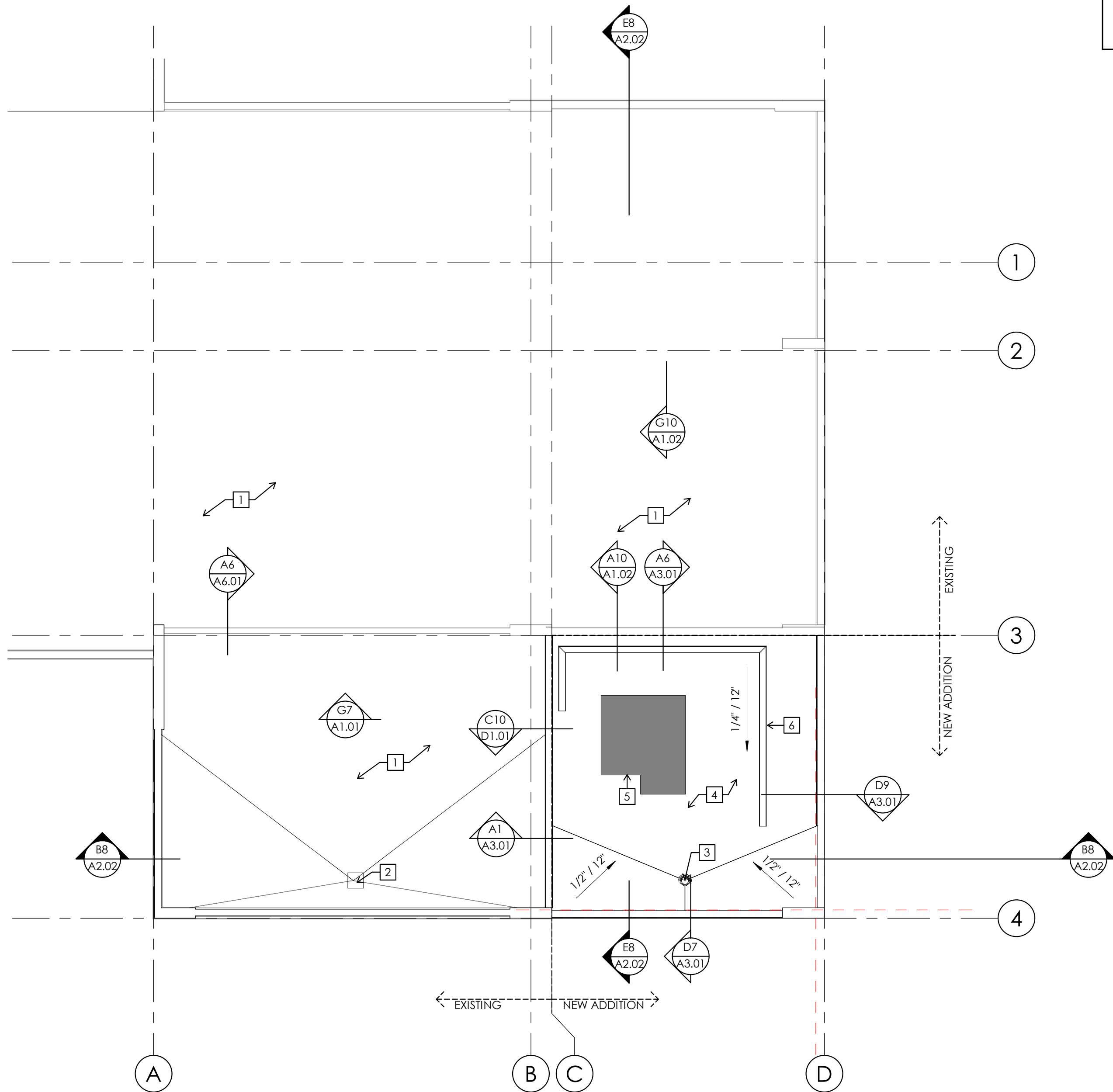
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SECTION DTL @
EXISTING ROOF
OPENING
1 1/2" = 1'-0"



DETAIL @ ROOF
SCREEN BASE
1 1/2" = 1'-0"



A5 ROOF PLAN
1/8" = 1'-0"

GENERAL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND EXISTING CONDITIONS. ANY DISCREPANCIES WHICH WILL PREVENT THE ACCOMPLISHMENT OF INTENT SHOWN ON DRAWINGS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.
2. WHERE A CONDITION IS NOTED 'TYPICAL' (TYP.), IT IS UNDERSTOOD THAT ALL SIMILAR CONDITIONS BE CONSTRUCTED OF THE SAME MATERIALS AND/OR DIMENSIONS.
3. ALL DIMENSIONS ARE TO FACE OF STUD, FACE OF CMU, FACE OF CONCRETE FOUNDATION WALL, OR CENTER OF STL. STRUCTURE, UNLESS NOTED OTHERWISE.
4. COORDINATE ROOF AND FLOOR PENETRATIONS W/ MEP AND STRUCTURAL DRAWINGS.
5. REFER TO ENLARGED FLOOR PLANS FOR FURTHER INFORMATION ON PARTITION TYPE TAGS, DIMENSIONS, ETC.

PLAN NOTES:

- 1 EXISTING ROOF
- 2 EXISTING ROOF DRAIN RE: MEP FOR RE-ROUTING INFORMATION
- 3 ROOF DRAIN RE: MEP
- 4 ROOFING
- 5 RTU; RE: MECH.
- 6 MECHANICAL SCREENING; RE: A10/A1.02



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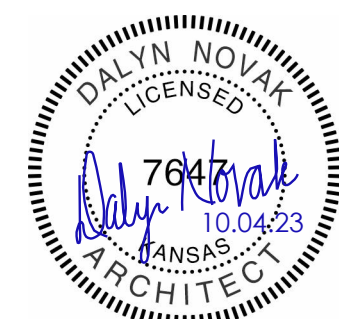
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ROOF PLAN

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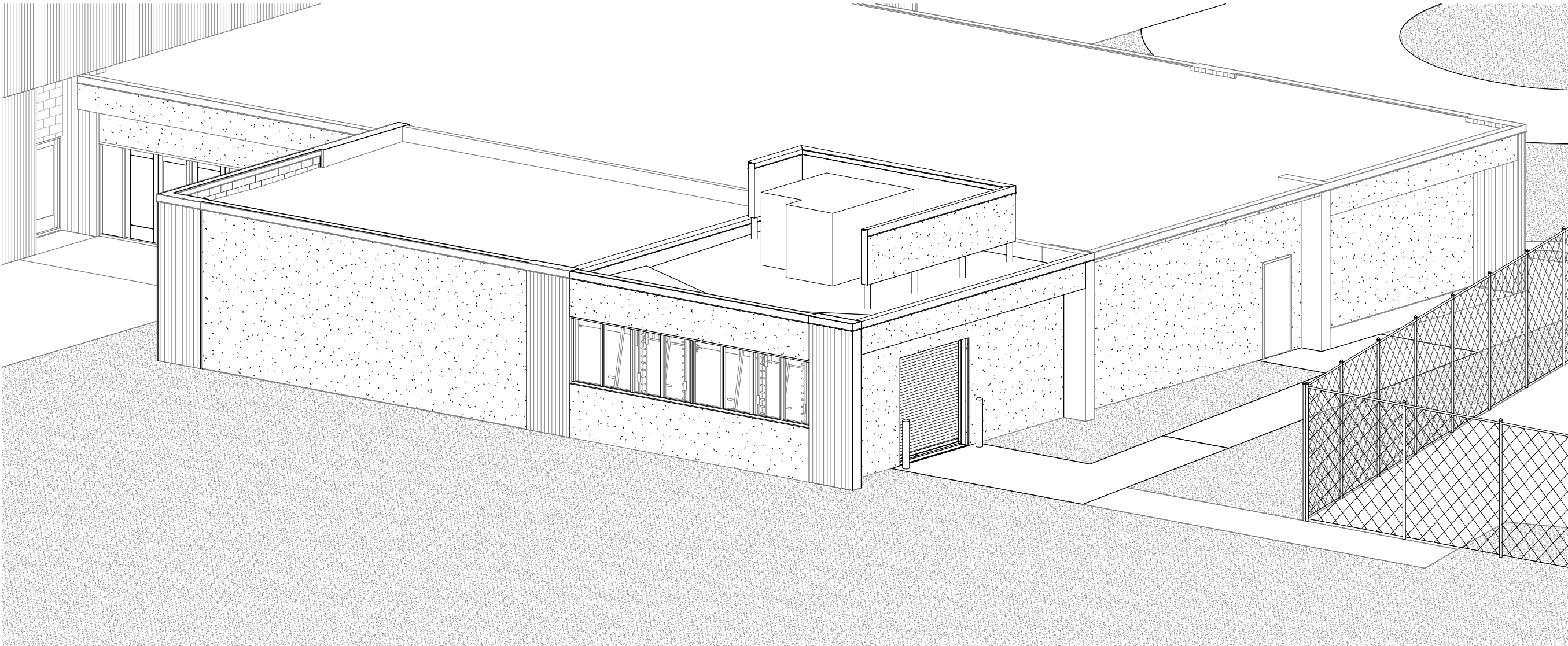
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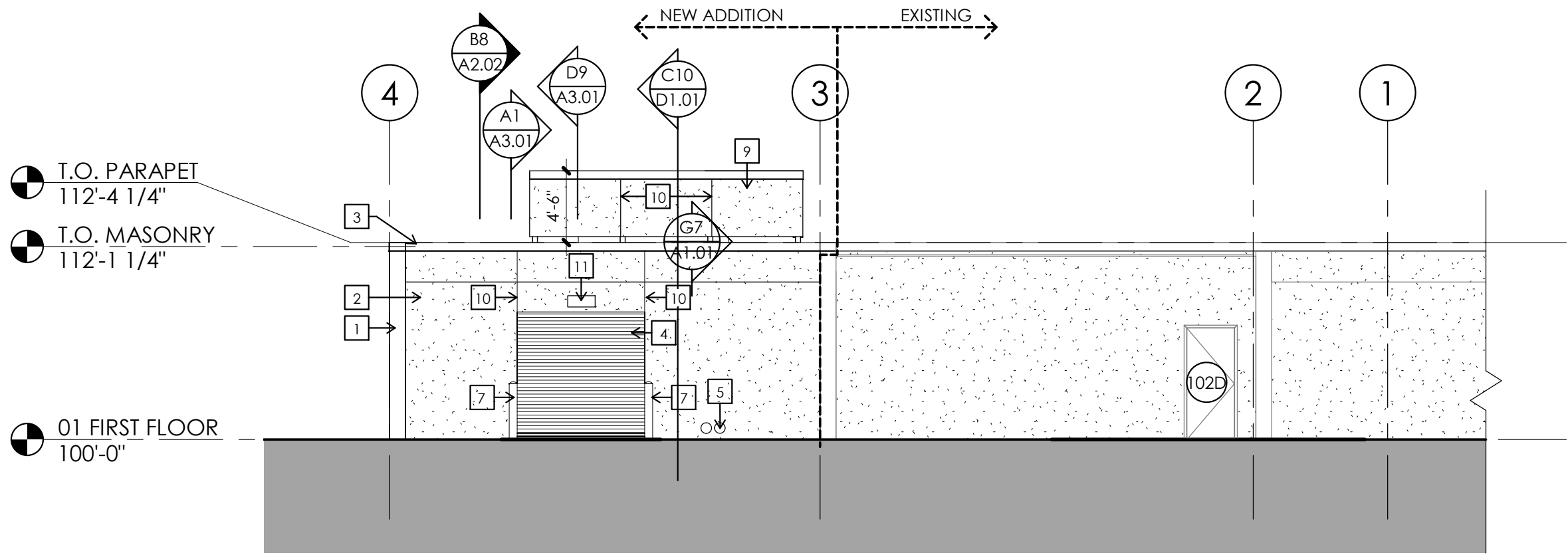
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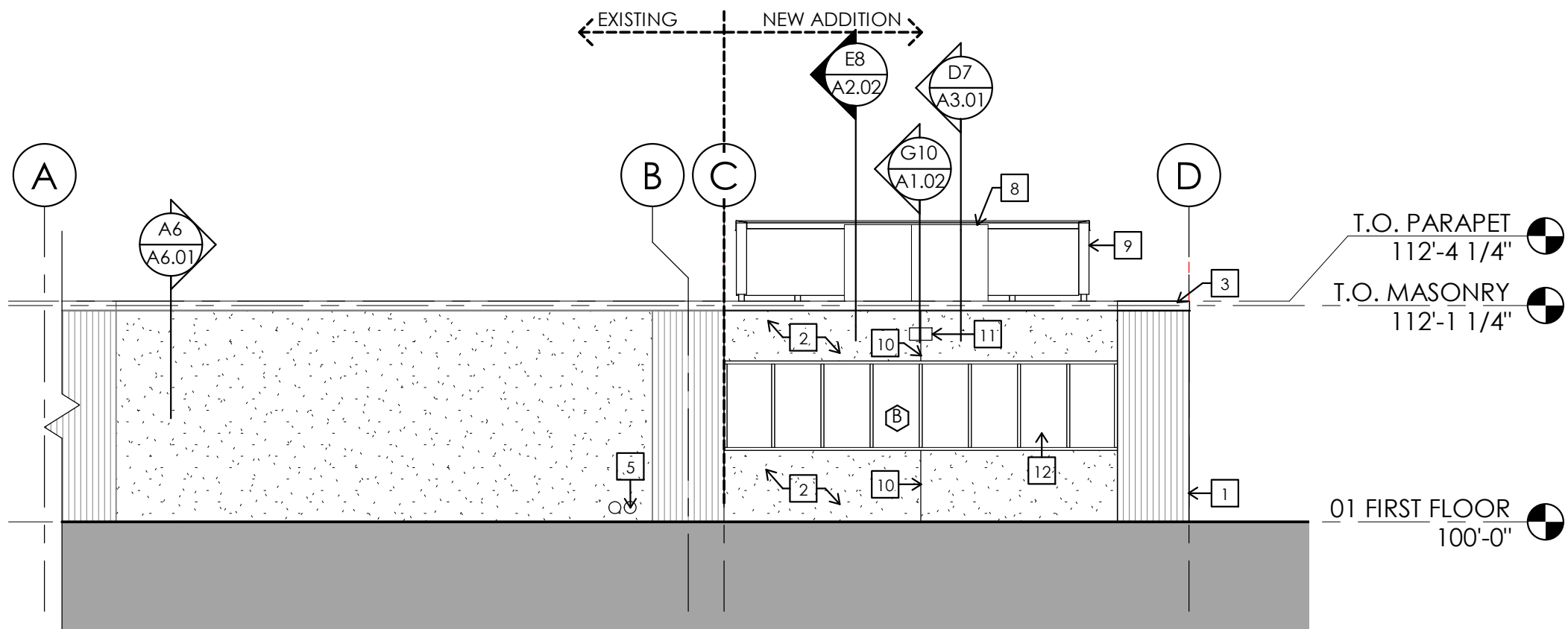
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F7 3D EXTERIOR VIEW
NTS



C6 EAST EXT. ELEVATION
1/8" = 1'-0"



A6 SOUTH EXT. ELEVATION
1/8" = 1'-0"

GENERAL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND EXISTING CONDITIONS. ANY DISCREPANCIES WHICH WILL PREVENT THE ACCOMPLISHMENT OF INTENT SHOWN ON DRAWINGS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.
2. WHERE A CONDITION IS NOTED 'TYPICAL' (TYP.), IT IS UNDERSTOOD THAT ALL SIMILAR CONDITIONS BE CONSTRUCTED OF THE SAME MATERIALS AND/OR DIMENSIONS.

ELEVATION NOTES:

- 1 BOARD-FORMED CAST-IN-PLACE CONCRETE TO MATCH EXISTING CONCRETE IN COLOR AND FINISH.
- 2 STUCCO, COLOR AND FINISH TO MATCH EXISTING CONDITIONS.
- 3 PRE-FINISHED METAL COPING TO MATCH EXISTING COPING IN COLOR AND FINISH.
BOLLARDS, RE: E9/SP1.01
- 4 COILING GARAGE DOOR; RETAINED FROM EXISTING BUILDING DURING DEMOLITION. RE: NOTE 2 D1.01
- 5 DOWNSPOUT NOZZLE; RE: ME1.01
- 6 RELOCATED BUILDING MOUNTED LIGHT RE: ELEC. DWGS.
- 7 6" BOLLARDS, RE: A2/SP2.01
- 8 RTU; RE: MECH. DWGS.
- 9 MECHANICAL SCREEN WALL
- 10 STUCCO CONTROL JOINTS
- 11 BUILDING MOUNTED LIGHT ADD; RE: ELEC. DWGS.
- 12 ALUMINUM STOREFRONT
- 13 EXISTING CAST-IN-PLACE CONCRETE



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ELEVATIONS

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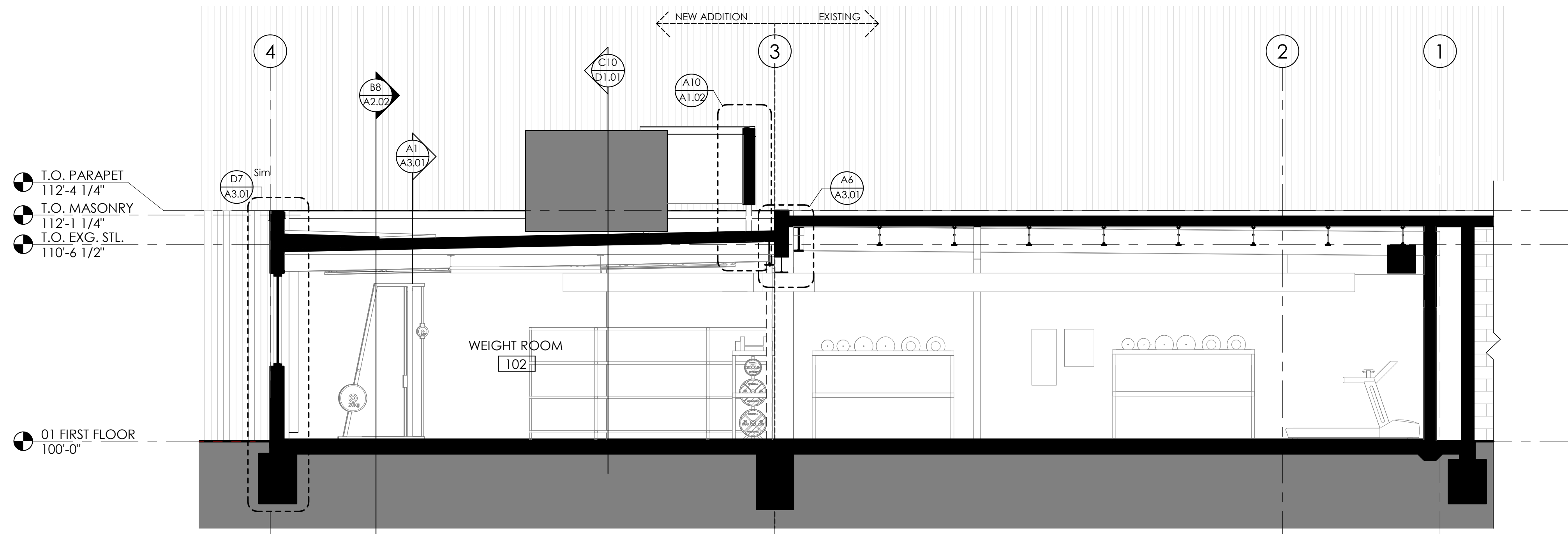
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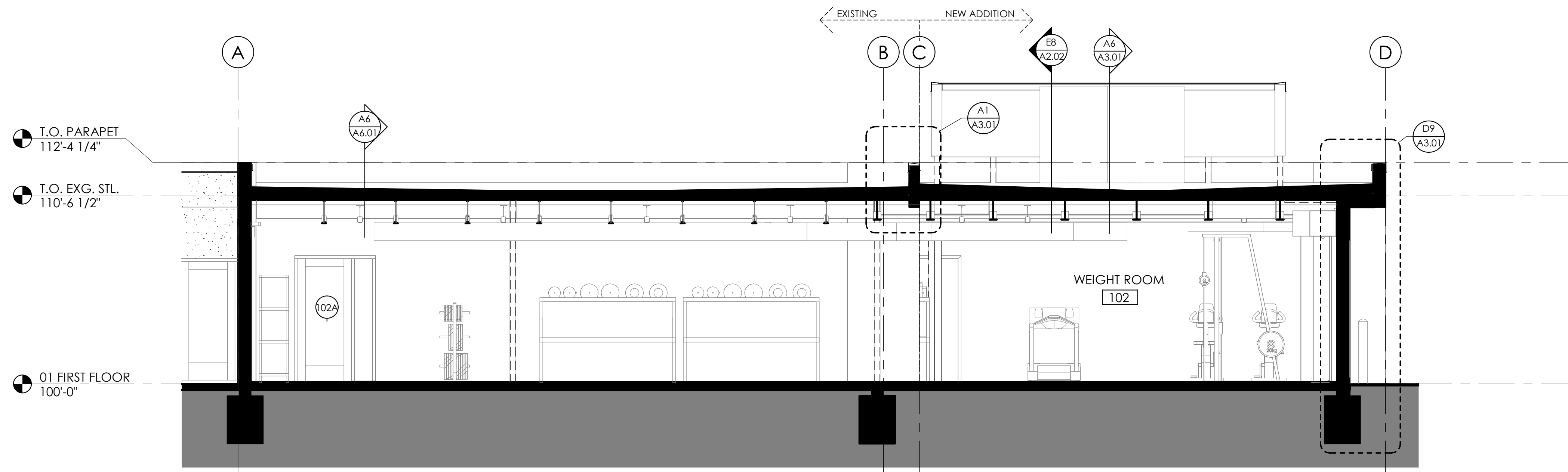
C

B

A



E8 BUILDING SECTION
1/4" = 1'-0"



TRANSVERSE BUILDING
SECTION
B8
1/4" = 1'-0"



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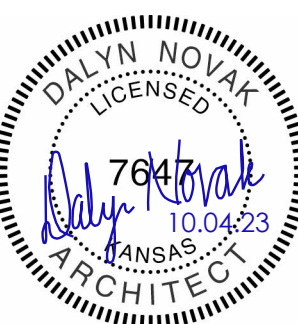
MEP Engineer
PKMR Engineers, LLC
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JOB NUMBER 22060A

KCKCC FIELD HOUSE ADDITION

7250 STATE AVE.
KANSAS CITY, KS 66112

KCKCC
707 Minnesota Ave., Suite 504 Kansas City, Kansas 64101 Tel. 913.287.1900



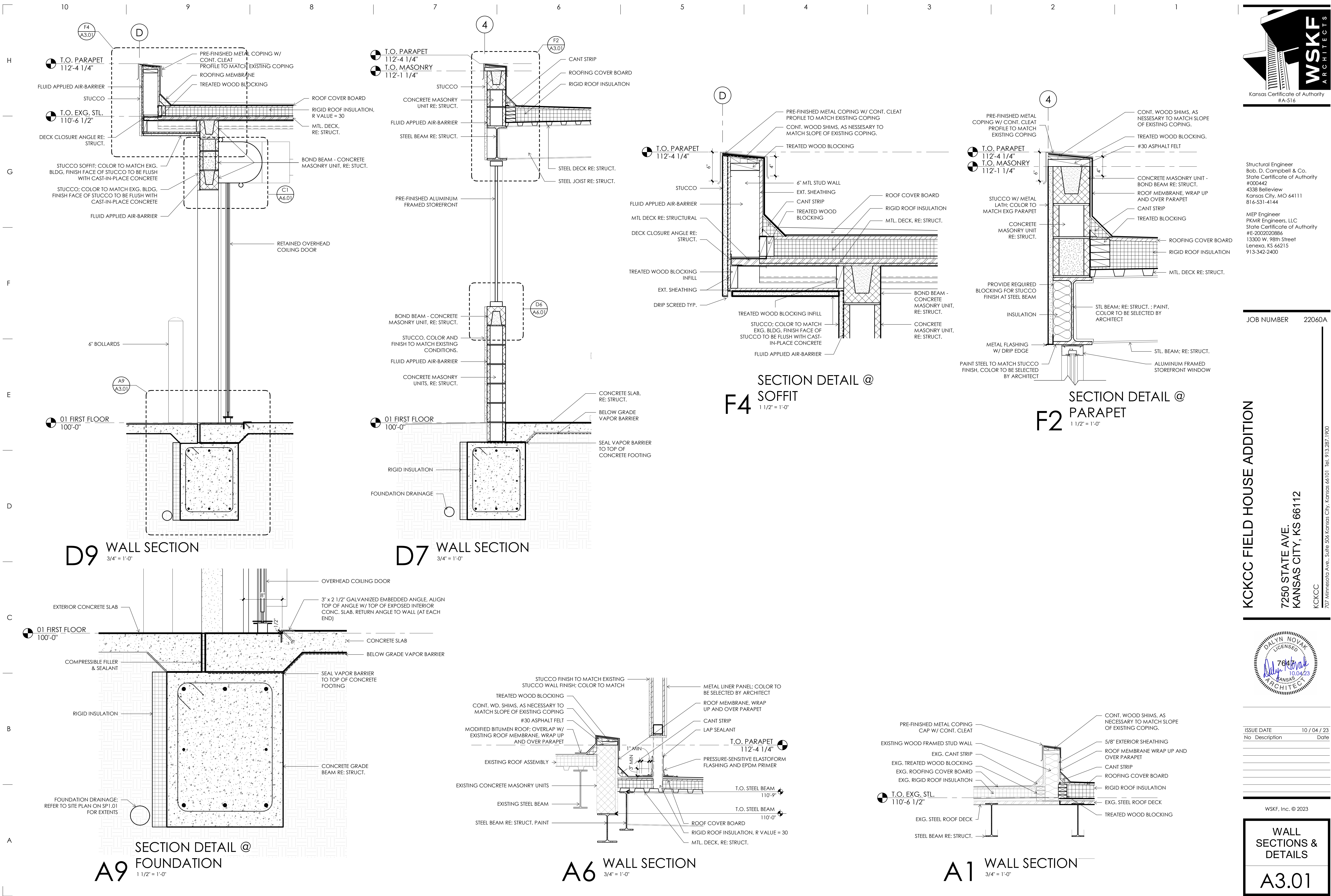
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BUILDING
SECTIONS

A2.02

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WALL
SECTIONS &
DETAILS

A3.01

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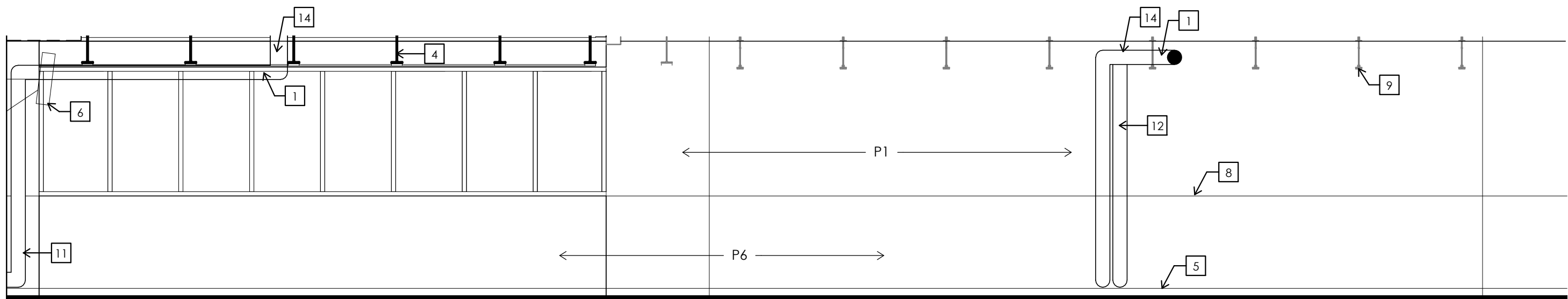
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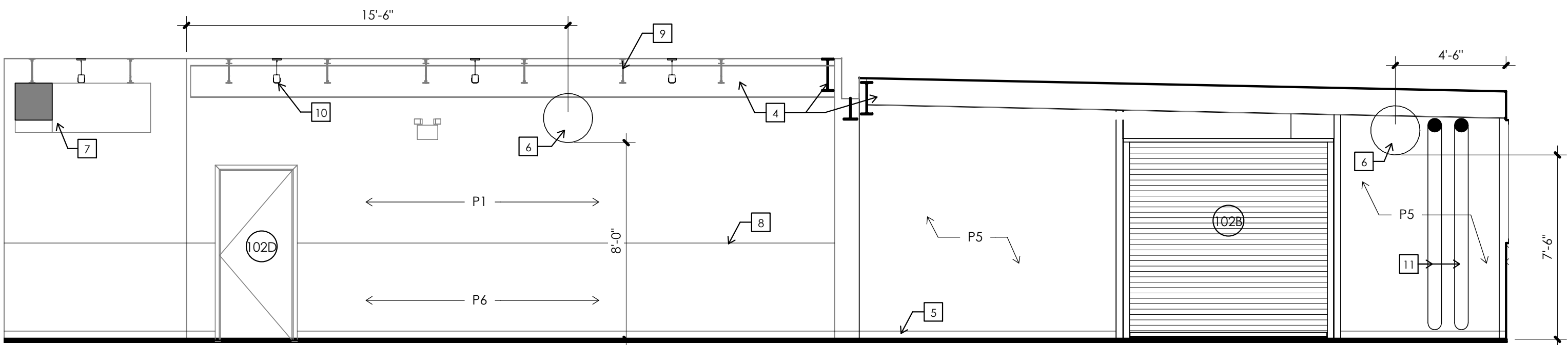
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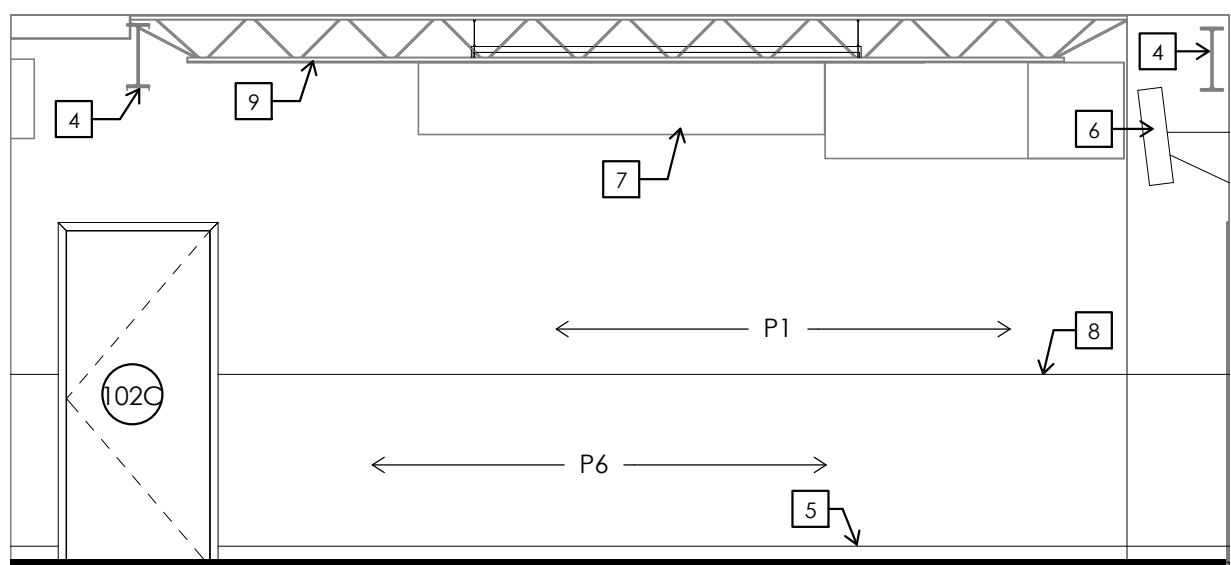
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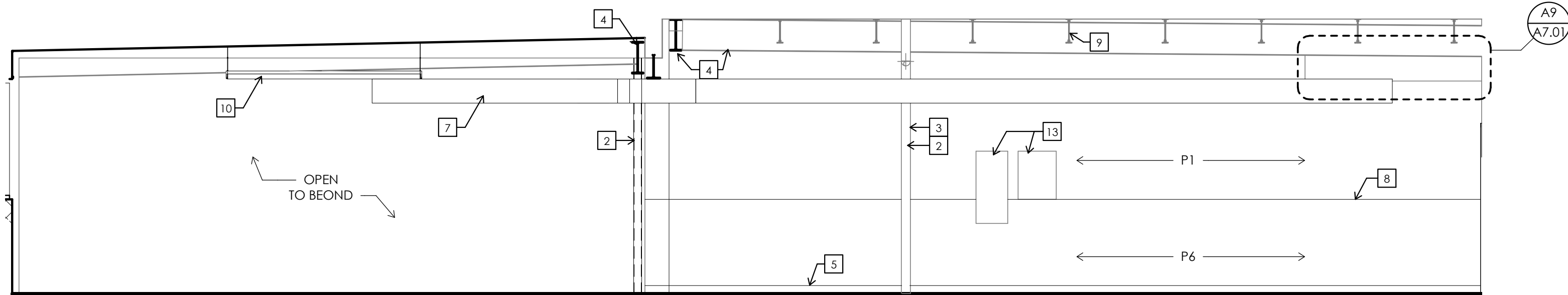
F7 WEIGHT ROOM
1/4" = 1'-0"



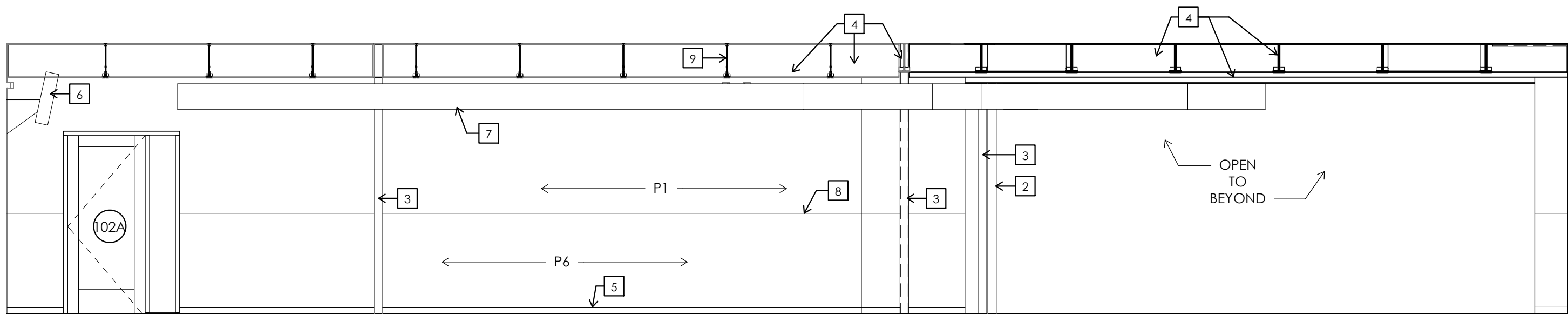
D7 WEIGHT ROOM
1/4" = 1'-0"



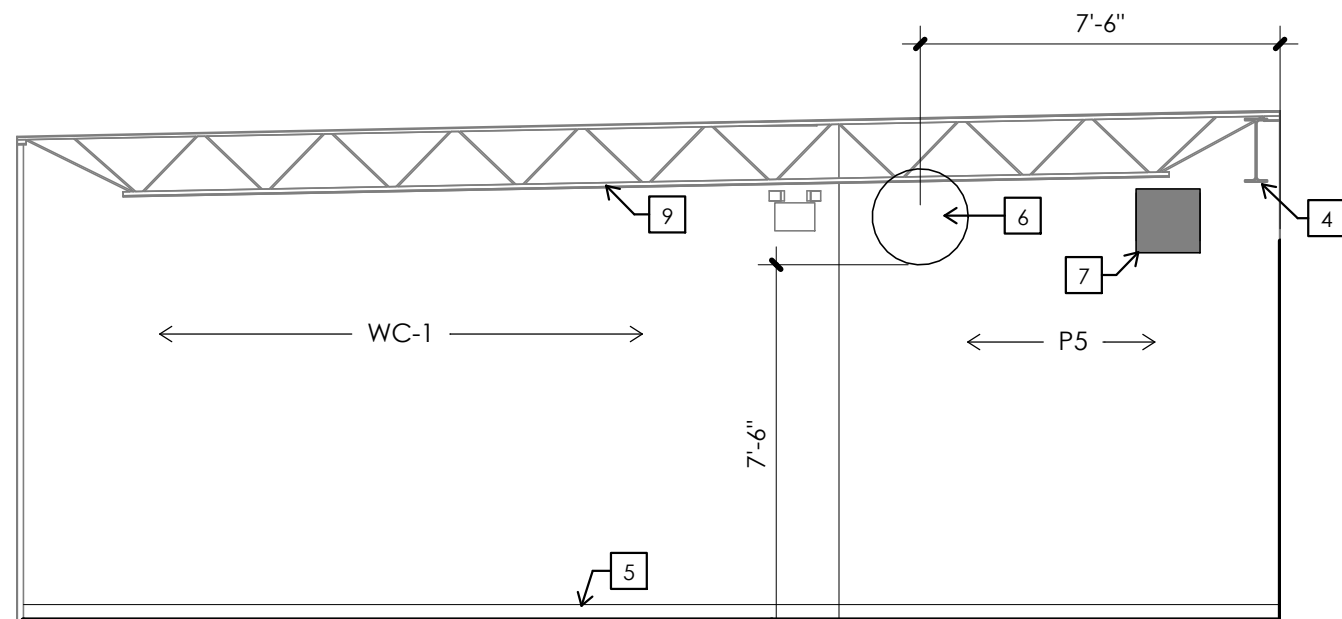
B9 WEIGHT ROOM
1/4" = 1'-0"



B7 WEIGHT ROOM
1/4" = 1'-0"



A9 WEIGHT ROOM
1/4" = 1'-0"



A4 WEIGHT ROOM
1/4" = 1'-0"

GENERAL NOTES:

- FOR ITEMS LABELED REFER TO FINISH SCHEDULE ON A7.01.
- ALL DIMENSIONS ON INTERIOR ELEVATIONS ARE FROM FINISHED SURFACES.
- OFOH= OWNER FURNISHED, OWNER INSTALLED.
- OFCH= OWNER FURNISHED, CONTRACTOR INSTALLED.
- EXISTING CAST IN PLACE CONCRETE TO BE PAINTED ON THE INTERIOR PER FINISH SCHEDULE & INTERIOR ELEVATIONS.

ELEVATION NOTES:

- PAINT EXPOSED PIPING P3
- WRAP PIPING WITH INSULATION AND PAINT VERTICAL PORTION ALONG COLUMN P4. SWITCH TO P3 AS PIPING TURNS HORIZONTAL AND UP THROUGH ROOF DECK
- PAINT EXPOSED STEEL COLUMN P4
- EXPOSED STEEL BEAMS, PAINT PER RCP
- WALL BASE PER FINISH SCHEDULE
- WALL MOUNTED FAN, RE: MEP
- PAINT EXPOSED DUCTWORK PER RCP
- ALIGN PAINTED WAINSCOT HEIGHT WITH WINDOW SILL
- PAINT EXPOSED TRUSSES PER RCP
- LIGHT FIXTURE PER ELEC.; HEIGHT PER RCP
- PAINT VERTICAL EXPOSED PIPING P5
- PAINT VERTICAL EXPOSED PIPING P1/P6 TO MATCH PAINTED WAINSCOT
- ELEC PANELS TO REMAIN UNPAINTED , PROTECT DURING CONSTRUCTION
- ROOF DRAIN PIPING. ROUTE AS TIGHT TO STRUCTURE AS POSSIBLE WHILE STILL ALLOWING FOR ADEQUATE DRAINAGE SLOPE. INSTALL AS TIGHT TO WALL AS POSSIBLE.



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JOB NUMBER 22060A

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INTERIOR
ELEVATIONS

A4.01

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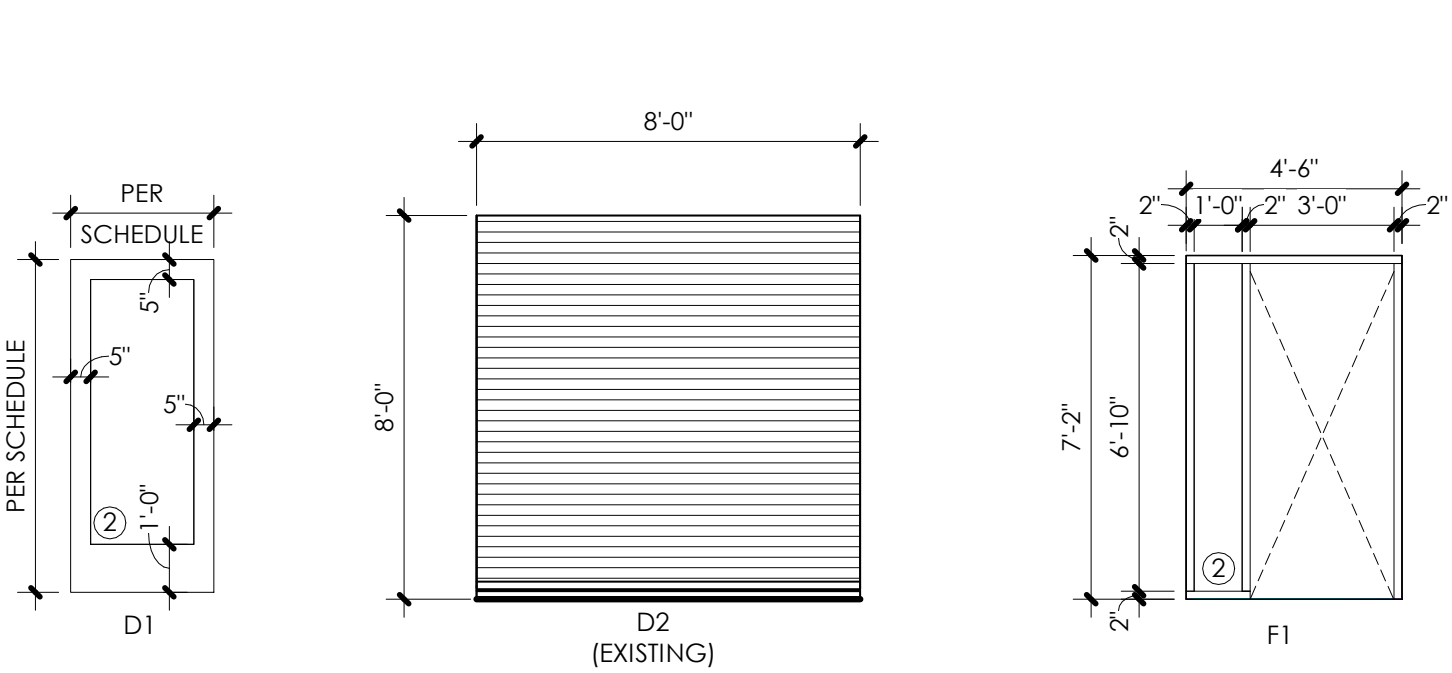
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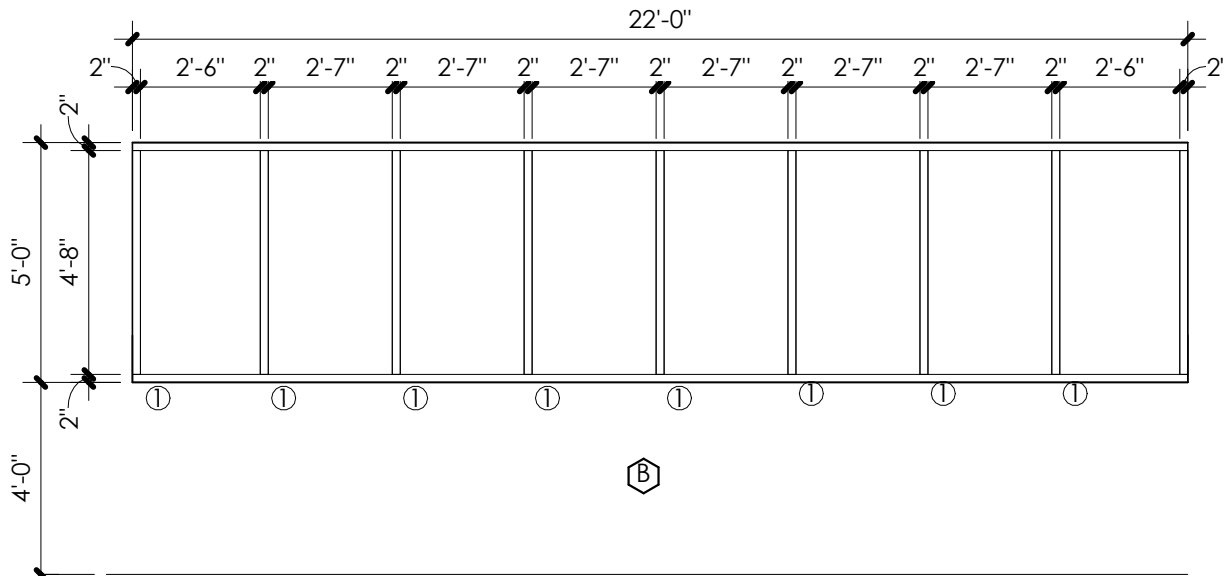
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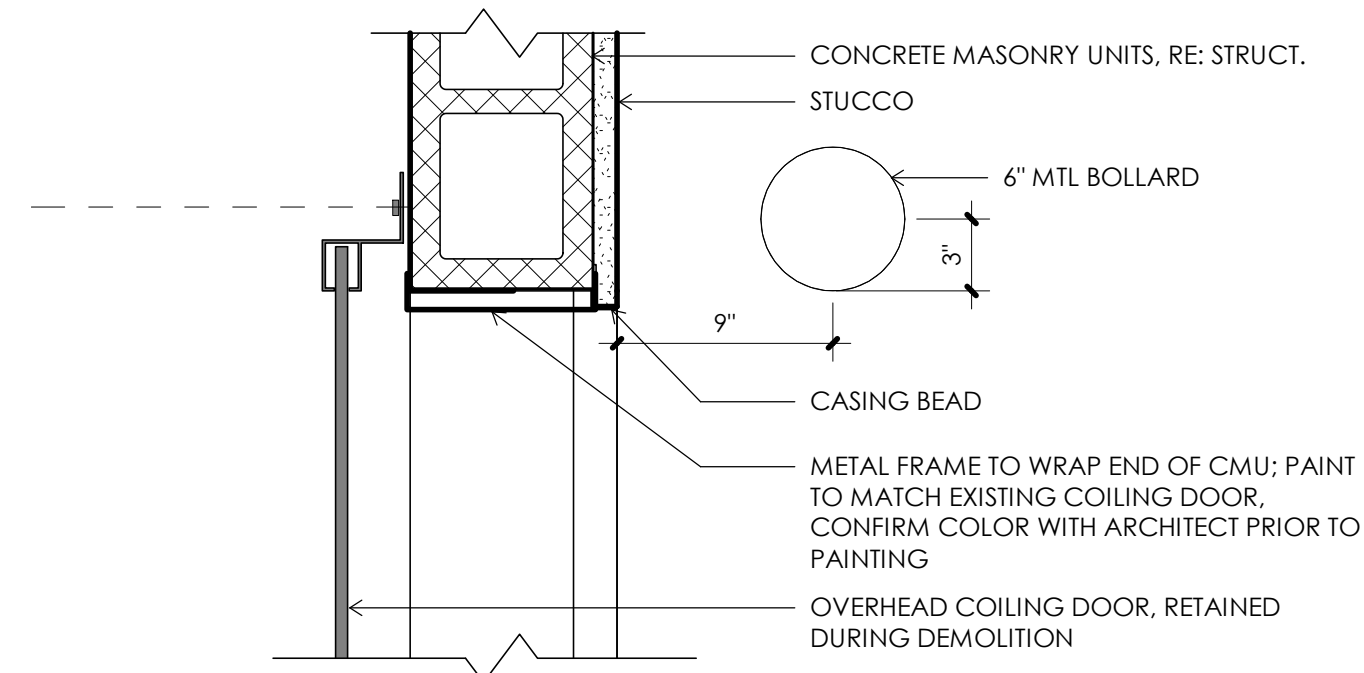


DOOR TYPES
1/4" = 1'-0"

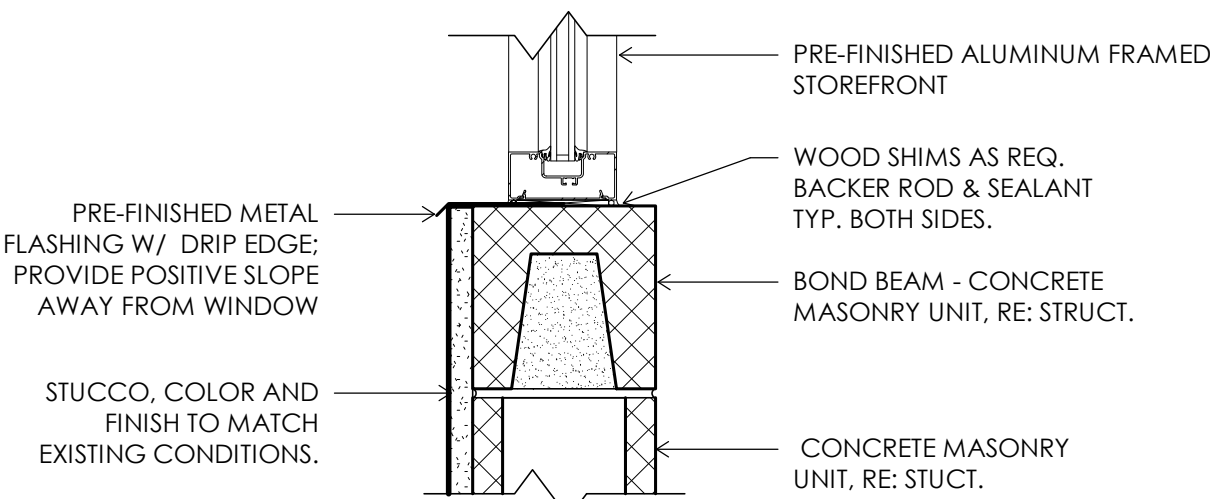
FRAME TYPES
1/4" = 1'-0"



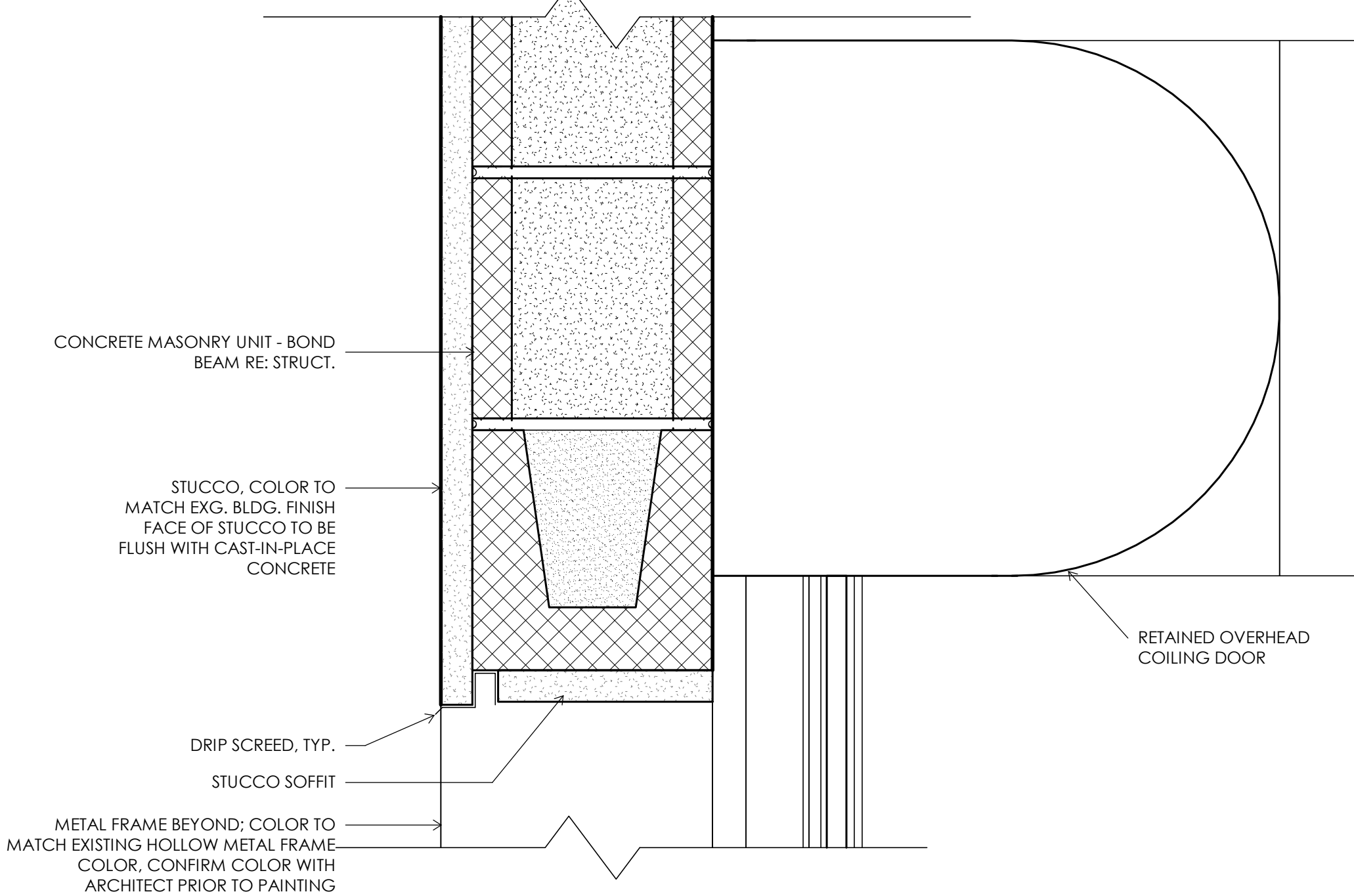
STOREFRONT
ELEVATION
1/4" = 1'-0"



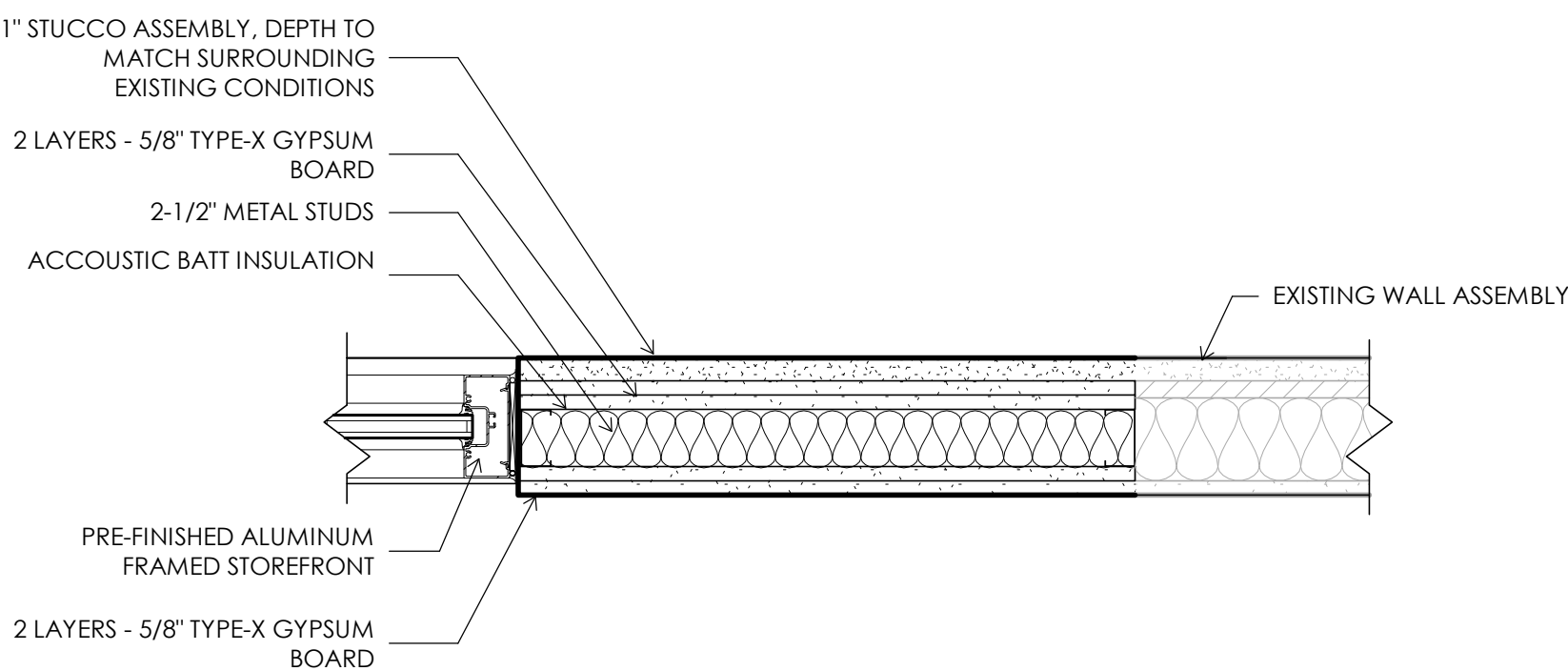
D9 DOOR
1 1/2" = 1'-0"



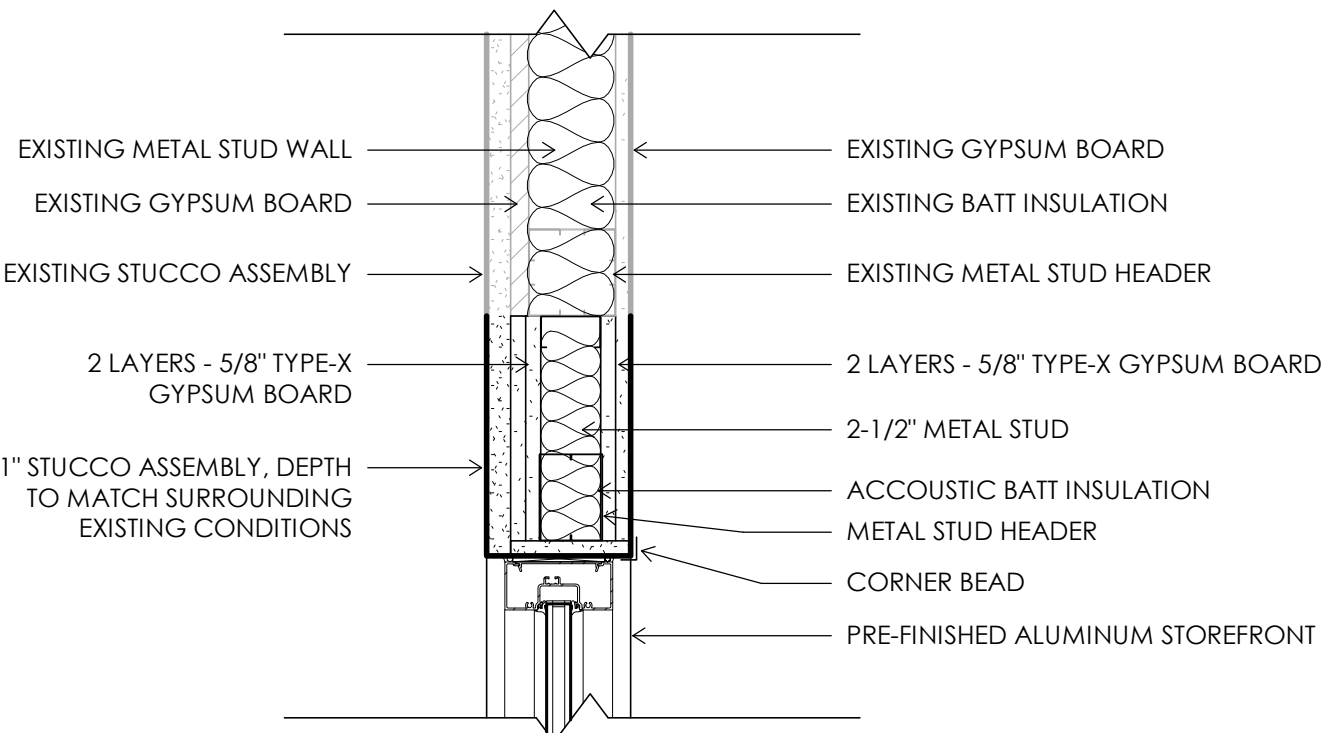
D6 ALUM STOREFRONT
1 1/2" = 1'-0"



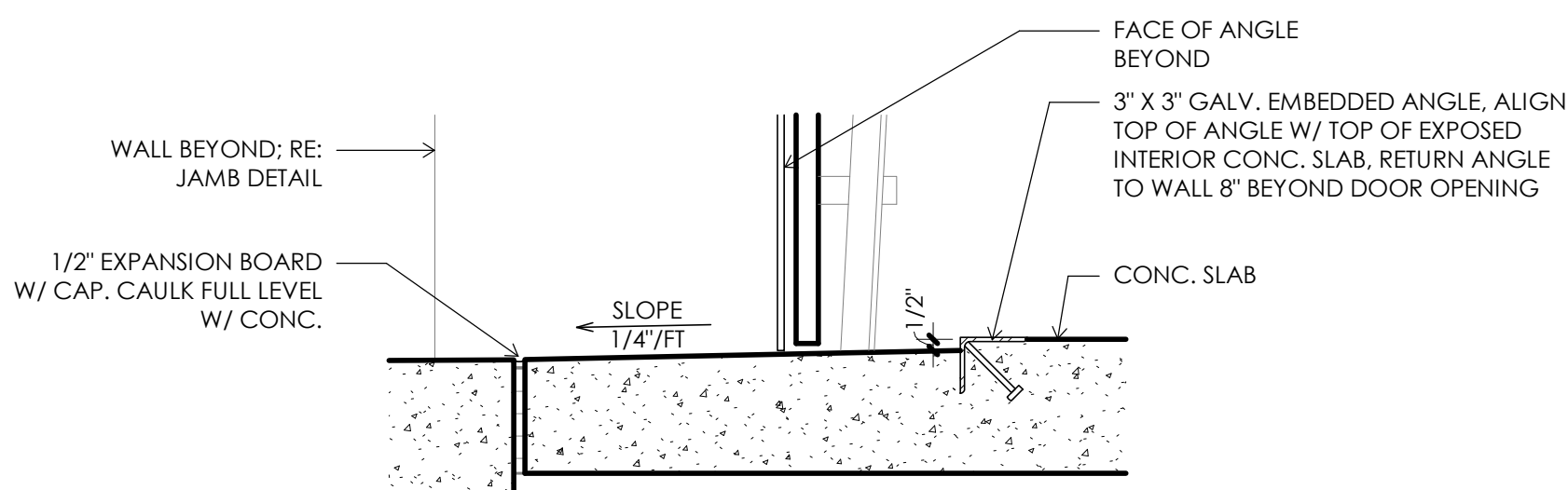
C1 SECTION DETAIL @
OVHD DOOR HEAD
3" = 1'-0"



A9 PLAN DETAIL @ EXG
OPENING
1 1/2" = 1'-0"



A6 WALL SECTION @ EXG
DOOR OPENING
1 1/2" = 1'-0"



A3 THRESHOLD DETAIL @
OVHD DOOR
1 1/2" = 1'-0"

DOOR SCHEDULE GENERAL NOTES:

- HOLLOW METAL DOORS TO BE 1 3/4" THICK U.N.O.
- EXG = EXISTING
- FIELD VERIFY EXISTING HOLLOW METAL FRAMES FOR SIZING OF NEW DOORS

DOOR SCHEDULE KEY NOTES:

- DOOR TO HAVE ACCESS CONTROL PER SPECIFICATIONS.
- DOOR AND SIDE LITE GLAZING TO RECIEVE WINDOW FILM, WF1.
- DOOR UNDERCUT TO BE COODINATED WITH 1" ATHLETIC FLOORING IN WEIGHT ROOM 102

GLAZING KEYNOTES:

EXTERIOR GLAZING:

① INSULATED, TEMPERED, TINTED GLASS

INTERIOR GLAZING:

② 1/2" CLEAR FLOAT GLASS

DOOR SCHEDULE												
DOOR INFORMATION						FRAME INFORMATION						REMARKS
NO.	WIDTH	HEIGHT	TYPE	MATERIAL	FIRE RATING	TYPE	MATERIAL	DEPTH	HEAD	JAMB	THRESHOLD	
102A	3'-0"	7'-0"	D3	Aluminum	None (Not Rated)	F1	Aluminum		A6/A6.01	A9/A6.01		NOTES: 1, 2 & 3
102B	8'-0"	8'-0"	D2	EXG	None (Not Rated)	EXG	EXG		C1/A6.01	D9/A6.01	A1/A6.01	1 HRS.
102C	3'-0"	7'-0"	D4	Hollow Metal	None (Not Rated)	EXG	Hollow Metal	8 5/8"	EXG	EXG	EXG	NOTE: 3
102D	3'-0"	7'-0"	EXG	EXG	None (Not Rated)	EXG	EXG	9 5/8"	EXG	EXG	EXG	
102F	3'-0"	7'-0"	EXG	EXG	None (Not Rated)	EXG	EXG	8 5/8"				

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No Description Date

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DOOR
SCHEDULE

A6.01

GENERAL NOTES - STRUCTURAL

1. General Information

- A. The contractor shall verify dimensions and conditions before construction and notify the engineer of any discrepancies, inconsistencies, or difficulties affecting the work before proceeding.
- B. The contractor shall coordinate all disciplines, verifying size and location of all openings, whether shown on structural drawings or not, as called for on architectural, mechanical, or electrical drawings. In the case of work in an existing building the contractor shall scan existing structure to locate all rebar in the area of the new core/opening using ground penetrating radar and notify the engineer of record for review prior to cutting. Conflicts, inconsistencies, or other difficulties affecting structural work shall be called to the architect or engineer's attention for direction before proceeding.
- C. All design and construction work for this project shall conform to the requirements of the following governing design codes:
1. International Building Code (IBC 2018) as amended by the city of Kansas City, KS
 2. Minimum Design Loads for Buildings and Other Structures (ASCE7-16)
 3. Specification for Structural Steel Buildings (AISC 360-16)
 - Member Design Basis is Allowable Stress Design (ASD)
 - Connection Design Basis is Allowable Stress Design (ASD)
 4. Structural Welding Code (AWS D1.4:16)
 5. Building Code Requirements for Structural Concrete (ACI 318-14)
 6. Building Code Requirements for Masonry Structures (TMS 402-16)
- D. These drawings are for this specific project and no other use is authorized.

2. Structural Load Design Criteria

- A. Roof Live = 20 psf
- C. Snow: Pg = 20psf, Pf =16psf, Is = 1,1, Ce = 1.0, Ct = 1.0, Drift per ASCE/SEI 7
- D. Lateral Loads:
- 1.) Wind: V = 118 mph, Exposure B
 - Occupancy [Risk] Category III, Iw=1.0 GCpi=+/-0.18
- Design wind pressures to be used for the design of exterior component and cladding materials on the designated zones of wall and roof surfaces shall be per section 30.7 and Table 30.7-2 of ASCE/SEI 7. Tabulated pressures shall be multiplied by effective area reduction factors, exposure adjustment factors, and topographic factors where applicable
- 2.) Seismic: Ss = 0.094, S1 = 0.068
 - Occupancy [Risk] Category III, Ie=1.25,
 - Site Classification D; Sds = 0.1; Sd1 = 0.109
 - Seismic Design Category B
 - R = 2; V = 0.05W; Omega = 2.5; Cd = 1.75
- E. This project is designed to resist the most critical effects resulting from the load combinations of section 1605.3 of the International Building Code.

3. Concrete

- A. All concrete for foundations (walls, grade beams, footings) shall develop minimum ultimate compressive design strength of 4000 psi in 28 days, but not less than 540 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 5.40 gallons of water per 100 pounds of cement and not over 4 inches of slump.
- B. All concrete for interior flatwork shall develop minimum ultimate compressive design strength of 4000 psi in 28 days, but not less than 540 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 5.40 gallons of water per 100 pounds of cement and not over 4 inches of slump. Concrete mix shop drawing shall contain testing data proving concrete design mix shrinkage is less than 0.034% at 28 days when tested according to ASTM C157 (air drying method only).
- C. All concrete for exterior flatwork shall have a minimum design compressive strength of 4500 psi in 28 days, with not less than 560 pounds of cement per cubic yard of concrete, not over 5 gallons of water per 100 pounds of cement, with 6% +/- 1% air entrainment, and a maximum of 4 inches of slump.
- D. The preceding minimum mix requirements may have water-reducing admixtures conforming to ASTM C494 added to the mix at manufacturer's dosage rates for improved workability.
- E. The preceding minimum mix requirements may have up to 15% maximum of the cement content replaced with an approved ASTM C618 Class C fly ash, provided the total minimum cementitious content is not reduced.
- F. All interior concrete slabs on grade shall be placed over 15 mil, Class A Vapor Barrier per ASTM E1745 with less than 0.01 perms, tested after mandatory conditioning. All joints shall be lapped and sealed per manufacturer's recommendations. All penetrations, as well as damaged vapor barrier material shall also be sealed per manufacturer's recommendation prior to concrete placement. Install barrier per manufacturer recommended details at all discontinuous edges (at interior columns, exterior edge of slab, etc.) to ensure terms of warranty are followed. The vapor barrier shall be placed over free-draining granular material as prescribed by the project soils report.
- G. All concrete is reinforced concrete unless specifically called out as unreinforced. Reinforce all concrete not otherwise shown with same steel as in similar sections or areas. Any details not shown shall be detailed per ACI 315 and meet requirements of ACI 318, current editions.
- H. Control joints in dirt formed slab to be as shown on plans. Where not shown, limit controlled areas to not more than 144 square feet, or 12 feet on any side. Slab panel side ratio shall not exceed 1 1/2 to 1.
- I. Contractor shall verify that all concrete inserts, reinforcing and embedded items are correctly located and rigidly secured prior to concrete placement.
- J. Construction joints in beams, slabs, and grade beams shall occur at midspan (middle third) unless noted otherwise. Provide 2 x 4 horizontal keys at construction joints for shear transfer.
- K. No aluminum items shall be embedded in any concrete.

4. Reinforcing Steel

- A. All reinforcing steel shall conform to the requirements of ASTM A615 or A706 grade 60 steel. Welded plain wire fabric shall be supplied in sheets and conform to the requirements of ASTM A185.
- B. Clear coverage of concrete over reinforcing steel shall be as follows:
1. Concrete placed against earth: 3"
 2. Formed concrete against earth: 2"
 3. Slabs: 1"
 4. Beams or Columns: 1-1/2"
 5. Other: 2"
- All coverage shall be nominal bar diameter minimum.
- C. All dowels shall be the same size and spacing as adjoining main bars (splice lap 48 bar diameters or 24" minimum unless noted otherwise).
- D. At corners of all walls, beams, and grade beams supply corner bars (minimum 2"-0" in each direction or 48 bar diameters) in outside face of wall, matching size and spacing of horizontal bars. Where there are no vertical bars in outside face of wall, supply 3 - #4 vertical support bars for corner bars.
- E. Bars marked continuous and all vertical steel shall be lapped 48 bar diameters (2'-0" minimum) at splices and embedments, unless shown otherwise. Splice top bars near midspan and splice bottom bars over supports, unless noted otherwise.
- F. At all holes in concrete walls and slabs, add 2 - #5 bars (opening dimension plus 96 diameters long) at each of four sides and add 2 - #5 x 5'-0" diagonally at each of four corners of hole. Openings in 8" thick walls are reinforced similar, but with 1 - #5 instead of 2 - #5, respectively.
- G. Unless otherwise covered on architectural plans or specifications, vertical control joints in concrete wall shall be spaced at a maximum of 20'-0" on center and coordinated with the architect. Every other horizontal wall reinforcing bar shall be discontinuous at control joints except heavy top and bottom bars unless noted otherwise. Provide base seal waterstop style number 772 by Greenstreak Inc. or approved equal) on dirt face side of wall at all walls below grade.
- H. Accessories shall be as specified in latest edition of the ACI Detailing Handbook and the concrete Reinforcing Steel Institute Design Handbook. Maximum accessory spacing shall be 4'-0" on center, and all accessories on exposed surfaces are to have plastic coated feet.
- I. All slabs and stairs not shown otherwise shall be 6" thick with #4 bars at 12" on center each way. All exterior porches and stoops not otherwise detailed may be constructed in any standard manner, solid or hollow, but must be reinforced with #4 bars at 12" on center each way minimum. Porches shall be doweled to adjacent walls or grade beams with #4 bars at 12" on center, hooked or embedded 48 diameters into both members. Slope porches 1/8" per foot for drainage unless noted otherwise.
- J. Allow 1/4 ton of reinforcing bars #4 or larger to be used as directed in the field for special conditions by the engineer of record (labor for placing same to be included).

5. Structural Steel

- A. All structural steel beams and columns shall be ASTM A992, grade 50 steel and all miscellaneous steel shall be ASTM A36 grade steel (except at moment connections where plates shall be ASTM A572, grade 50). Hollow Structural Sections (HSS) shall be ASTM A500, grade C. Fabrication and erection shall be in accordance with AISC 303-05 "Code of Standard Practice for Steel Buildings and Bridges" in the 13th Edition of the AISC Steel Construction Manual.
- B. All welding shall conform to the recommendations of the AWS.
- C. All exterior steel and connections, and brick relief angles shall be hot-dip galvanized.
- D. All bolts not otherwise specified shall be 3/4" diameter high strength (ASTM A325-N). All bolts shall be fully pretensioned. All beam connections shall be designed per the AISC Manual of Steel Construction "Framed Beam Connections" for the indicated reactions or at least 0.4 x beam total shear capacity, Vn/Omega, shown in the maximum total uniform load tables, whichever is greater; and, shall account for eccentricity when the bolt line is more than 2" from the center of the support. All connections must be two bolt minimum. Additional connection elements may not be specifically shown in the conceptual details in this set but may be required by the final connection design, such as stiffener plates, doubler plates, supplement/reinforcing plates or other connection material. Connection design and shop drawing preparation shall be completed under the direct supervision of a professional engineer licensed in the state the project is located and shop drawings and connection calculations shall bear his/her seal.
- E. All anchor bolts shall be 3/4" diameter, ASTM F1554, Grade 36 unless noted otherwise. Washers of minimum size and thickness for the given anchor diameter in Table 14-2 of the AISC Steel Construction Manual shall be provided at every column anchor bolt. Washers shall have a standard size hole for the anchor bolt. At braced frames washers shall be welded all around to the column base plate with 3/16" fillet weld.
- F. Design, fabrication and erection of all open-web bar joists shall comply with the recommendations of the Steel Joist Institute (SJI). Joists shall be designed to support loads given in the standard load tables of SJI Specs and Tables plus an additional point load of 200 lbs. on the top or bottom chord at any location without additional web reinforcing.
- G. All K-series joists shall bear 2-1/2" minimum on structural steel beams and be welded to the beams with 1 1/2" of 1/8" fillet weld each side (minimum).
- H. All K-series joists bearing on masonry walls shall have 6" x 3/8" x 6" bearing plates set in bond beams. Bearing plates shall be 3/8" wide, full height of wall. Joints shall be on the wall on the bearing side. Joists shall bear 4" minimum on bearing plates and be welded to beams or bearing plates with 2-1/2" of 1/8" fillet weld each side (minimum).
- I. All steel joists shall have horizontal bar or angle bridging per Steel Joist Institute Specifications. Provide rigid x-bridging in addition to and matching horizontal bridging where joists are discontinuous unless horizontal bridging is anchored to wall top and bottom. Joist sweep allowance shall comply with AISC Standard Practice.
- J. Steel joists shall be designed for 20psf net uplift resulting from wind loading as measured 12ft. from a building corner, 15psf net uplift as measured 8ft. from the building edge, and 10psf otherwise.
- K. All openings in steel joist roof to have 3x3x1/4 angle frame set between joists. Support mechanical equipment with 4x4x5/16 angles laid between joists framed to 4x4x5/16 angles (length equals mechanical unit dimension plus distance each end to next panel point) laid parallel to and welded to top and/or bottom cord of joists to distribute load to joist panel points.
- L. All steel joists shall have a midspan camber approximately equal to that recommended by the Steel Joist Institute Specifications.
- M. Design and installation of steel decking shall comply with the recommendations of the Steel Deck Institute (SDI). All decking shall be galvanized unless noted otherwise.
- N. Allow 1 ton of miscellaneous structural steel to be used as directed in the field for special conditions by the engineer of record. Cost for shop drawings, fabrication, delivery, detailing, and erection to be included.

7. Post Installed Anchors

- A. Post-installed anchors shall be used only where specified on the drawings unless approved in writing by the engineer of record. See drawings for anchor diameter, spacing and embedment. Performance values of the anchors shall be obtained for specified products using appropriate design procedures and/or standards as required by the governing building code. Anchors installed in concrete shall have an ICC-ES Evaluation Service Report. Special inspection is required for all post installed anchors. The contractor shall coordinate an on-site meeting with the post installed anchor manufacturer field representative to educate the construction team on the anchor installation guidelines and requirements.
- B. Mechanical anchors used in cracked and uncracked concrete shall have been tested and qualified for use in accordance with ACI 355.2 and ICC-ES AC193. All anchors shall be installed per the anchor manufacturer's written instructions.
- C. Adhesive anchors used in cracked and uncracked concrete shall have been tested and qualified for use in accordance with ICC-ES AC308. All anchors shall be installed per the anchor manufacturer's written instructions.
- D. Mechanical anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES AC01. All anchors shall be installed per the anchor manufacturer's written instructions.
- E. Adhesive anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES AC58. All anchors shall be installed per the anchor manufacturer's written instructions.
- F. Anchors used in hollow concrete masonry shall have been tested and qualified in accordance with ICC-ES AC106 or ICC-ES AC308 as appropriate. All anchors shall be installed per the anchor manufacturer's written instructions with appropriate screen tubes used for adhesives.

8. Foundations

- A. All footings and foundations are designed to bear on engineered fill or undisturbed soil capable of safely sustaining 2,000 psf.
- B. Contractor shall provide for dewatering at excavations from either surface water or seepage.
- C. All foundation excavations shall be inspected by a qualified soil engineer, approved by the architect and/or structural engineer, prior to placement of steel or concrete. This inspection shall be at the owner's expense.
- D. All concrete in the structural portion retaining the backfill shall have attained its design strength prior to being backfilled.
- E. Moisture content in soils beneath building locations should not be allowed to change after footing excavations and after grading for slabs on grade are completed. If subgrade materials become desiccated or softened by water or other conditions, recompact materials to the density and water content specified for engineered fill. Do not place concrete on frozen ground.

10. Concrete Masonry Units

- A. Concrete block used in exterior walls or load bearing walls shall meet the requirements of ASTM C90 and have a minimum net compressive strength of 2850 psi and laid up using type N mortar such that fm equals 2000 psi. Mortar shall be volume proportion based cement lime mortar. Proportioning shall be completed by box measure. Any block in contact with earth shall be normal weight units, laid using type "S" mortar and grouted solid.
- B. The contractor shall provide adequate temporary bracing for all masonry walls during construction.
- C. All concrete block shall have 9 gage (or larger) horizontal joint reinforcing (ladder or truss) per architectural drawings and specifications (16" maximum vertical spacing).
- D. Cavity wall construction shall be reinforced as designed for specific concrete block used. The horizontal joint reinforcing shall be of the ladder or truss style per specification and continuous between brick and block, as prescribed by the architectural drawings.
- E. Concrete block shall be reinforced per schedule or details on the drawings. Where not otherwise indicated, non-load-bearing interior concrete block shall be reinforced as follows in 6", 8", 10", and 12" walls:
1. Vertical reinforcing shall be a minimum of 1 - #4 bar in 6" and 8" walls and 2 - #4 bars in 10" and 12" walls at 4'-0" on center, at each corner, at each door and window jamb, each side of control joints and in the end void of each length of wall. Lap splices for masonry vertical reinforcing shall be 48 bar diameters, 24" minimum.
 2. Horizontal reinforcing:
 - A. Horizontal joint reinforcing as noted above.
 - B. Continuous horizontal bars shall be included per section or detail in bond beam or optional running bond beam where noted. Where bond beams are continuous at corners of walls, supply corner bars matching size of horizontal bars (minimum 2'-0" or 40 bar diameters in each direction).
- F. Grout, where noted above, shall have a minimum design ultimate compressive strength of 2500 psi at 28 day test and 3/8" maximum aggregate size.
- G. Non-load bearing concrete block walls shall be isolated from adjacent structural elements with vertical 3/8" control joints and at the top of the wall with 1" air space or compressible material and support per architectural detail.
- H. Unless otherwise covered on architectural plans or specifications, vertical control joints in masonry construction shall be 3/8" wide, full height of wall. Joints shall be spaced at a maximum of 24'-0" on center and coordinated with the architect. All horizontal joint reinforcing shall be discontinuous at control joints in masonry. All bond beam horizontal reinforcing shall be continuous through control joints.
- I. Lintels over all openings up to 8'-0" wide in new and existing masonry walls not other be discontinued shall be one 6x3 1/2x5/16 angle for each 4" width of masonry. All exterior lintels to be galvanized.
- J. Walls shall be anchored top and bottom by dowels matching wall vertical reinforcing(unless noted otherwise) from floor slab bottom and bracing angles at the top, per details on the drawings.

14. Deferred Submittal and Shop Drawing

- A. Bob D. Campbell and Company, Inc. will review the General Contractor's (GC) shop drawings and related submittals (as indicated below) with respect to the ability of the detailed work, when complete, to be a properly functioning integral element of the overall structural system designed by Bob D. Campbell and Company, Inc.
- B. Deferred submittals shall be submitted to the architect of record for review who shall forward to the building official for review and approval. Design calculations for deferred submittals shall be submitted at the same time as the shop drawings for review. Design calculations shall be prepared and sealed by a Professional Engineer licensed in the state of the project. The deferred submittal items shall not be installed until the deferred submittal documents have been approved by the building official.
- C. Prior to submittal of a shop drawing or any related material to Bob D. Campbell and Company, Inc., the GC shall:
1. Review each submission for conformance with the means, methods, techniques, sequences and operations of construction and safety precautions and programs incidental thereto, all of which are the sole responsibility of the GC.
 2. Review and approve each submission.
 3. Stamp each submission as approved.
- D. Bob D. Campbell and Company, Inc. shall assume that no submission comprises a variation unless the GC advises Bob D. Campbell and Company, Inc. with written documentation.
- E. Bob D. Campbell and Company, Inc. shall review shop drawings and related materials with comments provided that each submission has met the above requirements. Bob D. Campbell and Company, Inc. shall return without comment unrequired material or submissions without GC approval stamp.
- F. Shop drawings and related material (if any) required are indicated below. Should Bob D. Campbell and Company, Inc. require more than ten (10) working days to perform the review, Bob D. Campbell and Company, Inc. shall so notify the GC.
1. Concrete mix designs and material certificates including admixtures and compounds applied to the concrete after placement.
 2. Reinforcing steel shop drawings including erection drawings and bending details.Bar list will not be reviewed for correct quantities.
 3. Elevations of all reinforced concrete masonry walls at a scale no smaller than 3/8" = 1'-0" showing all required reinforcing.
 4. Grout mix designs (for CMU).
 5. Construction and control joint plans and/or elevations.
 6. Structural steel shop drawings including erection drawings and piece details. Include joist, decking and connector submittals. Include miscellaneous framing specified on the structural drawings, but do not submit framing specified on non-structural drawings for Bob D. Campbell and Company, Inc. review.
 7. Deferred Submittal: Structural steel connections (including braced frames)
 8. Deferred Submittal: Structural steel joists
 9. Deferred Submittal: Exterior cold-formed metal framing
 10. Miscellaneous anchors shown on the structural drawings.
 11. Deferred Submittal: Wood truss design calculations and detailed erection and fabrication drawings. Standard stick framing shop drawings need not be submitted.

15. Statement of Structural Special Inspections

- A. The structural design for this project is based on completion of special inspections during construction in accordance with section 1704 of the International Building Code. The owner shall employ one or more qualified special inspectors to provide the required special inspections.
- B. The special inspector shall furnish inspection reports to the building official, owner, architect and structural engineer, and any other designated person.
- C. All discrepancies shall be brought to the immediate attention of the contractor for correction, then, if uncorrected, to the proper design authority, building official and structural engineer.
- D. The special inspector shall submit a final signed report stating that the work requiring special inspection was, to the best of the inspector's knowledge, in conformance with the approved plans and specifications and the applicable workmanship provisions of the building code.
- E. The following inspections and tests are required with the frequency (continuous or periodic) as defined within the referenced section or standard listed below. The General Contractor shall provide notification to the inspector when items requiring inspection are ready to be inspected and provide access for those inspections.
1. Shop Fabrication – structural steel and steel bar joist per Section 1704.2.5 unless AISC certified shop
 2. Steel Construction per Section 1705.2 and the quality assurance requirements of AISC 341 Chapter J (as referenced by AISC 360)
 3. Cold-Formed Steel Deck per Section 1705.2.2 and the quality assurance requirements of SDI QA/GC.
 4. Concrete Construction per Section 1705.3 and Table 1705.3
 - a. Reinforcing Steel Placement
 - b. Reinforcing Steel Welding
 - c. Cast in Place Anchors
 - d. Post Installed Anchors
 - e. Design Mix Verification
 - f. Concrete Sampling and Testing
 - g. Concrete Placement
 - h. Concrete Curing
 - i. Formwork Shape, Location and Dimensions
 5. Masonry Construction per Section 1705.4 and the quality assurance requirements of TMS 402/ACI308/ASCE5 and TMS602/AS30.1/ASCE6 Level B
 6. Verification of Soils per Table 1705.6

16. Copyright and Disclaimer

- A. All drawings in the structural set (S-series drawings) are the copyrighted work of Bob D. Campbell and company, Inc. These drawings may not be photographed, traced, or copies in any manner without the written permission of Bob D. Campbell and Company, Inc. Exception: Original drawings may be printed for distribution to the owner, architect, and general contractor for coordination, bidding, and construction. Subcontractors may not reproduce these drawings for any purpose or in any manner.
- B. I, Christopher W. Boos, P.E., registered engineer and a representative of Bob D. Campbell and Company, Inc., do hereby accept professional responsibility as required by the professional registration laws of this state for the structural design drawings consisting of S-series drawings. I hereby disclaim responsibility for all other drawings in the construction document package, they being the responsibility of other design professionals whose seals and signed statements may appear elsewhere in the construction document package.



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LEGEND:

- SPAN DIRECTION OF DECK
- RD-1 1 1/2" 22ga GALVANIZED WIDE RIB ROOF DECK (3 SPAN CONTINUOUS) ATTACH TO STRUCTURE TO DEVELOP 325psf DIAPHRAGM SHEAR (ASD LOAD).
- 3.0 FOOTING MARK - SEE SCHEDULE ON SHEET S001.
- 1 HSS 8"x8"x5/16" COLUMN SIZE
- 1 BASE PLATE MARK - SEE SCHEDULE ON SHEET S001

LEVEL BEAM DESIGNATION	W14x22	STEEL BEAM SIZE
	T 117'-6"	TOP OF BEAM ELEVATION
SLOPING BEAM DESIGNATION	W14x22	STEEL BEAM SIZE
	T 133'-0"	TOP OF BEAM ELEVATION
	T 132'-5"	EACH END

ISSUE DATE 10 / 04 / 23

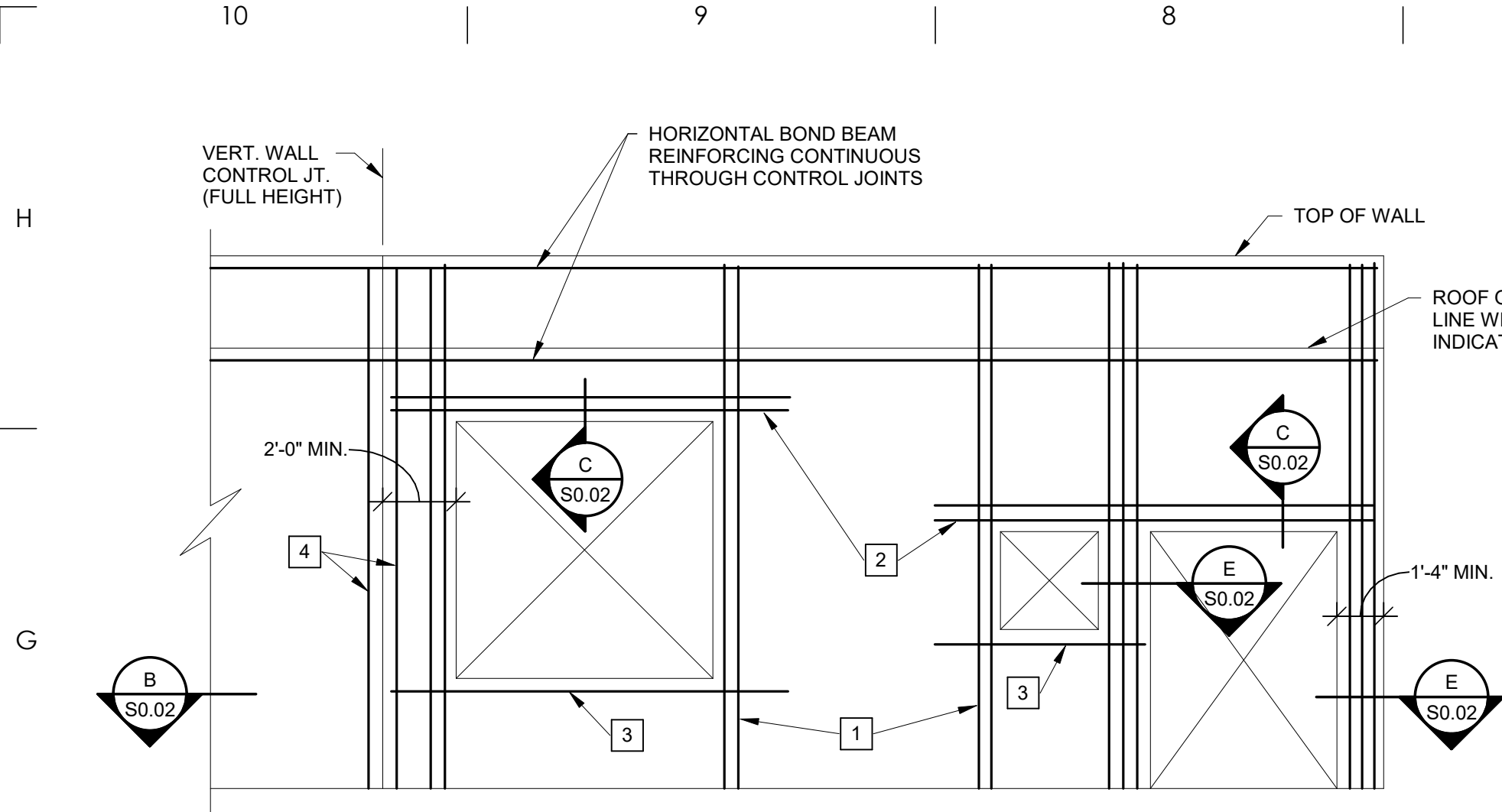
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GENERAL NOTES

S0.01

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TYPICAL CMU WALL REINFORCING AT OPENINGS

LEGEND:

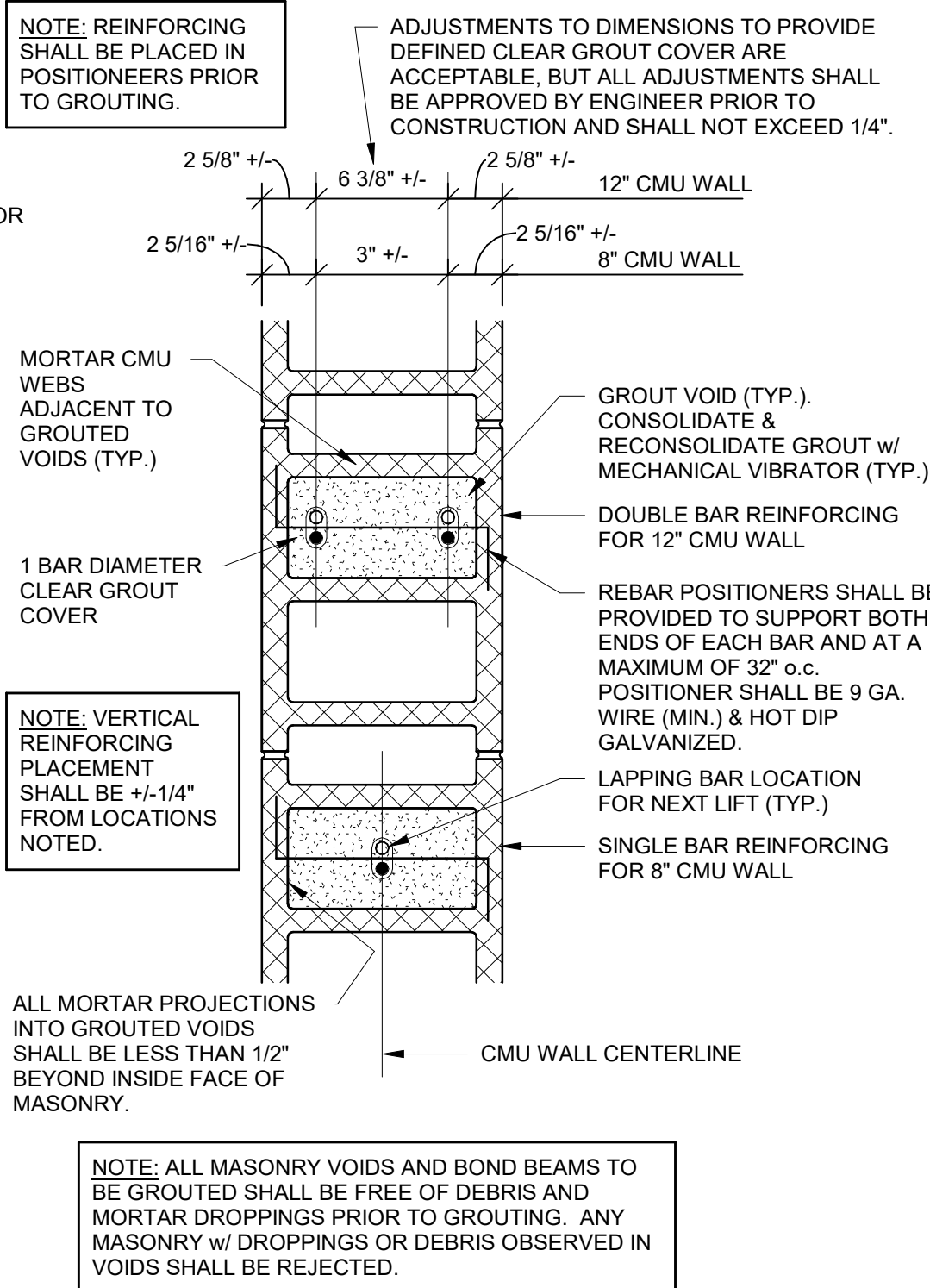
- FULL HEIGHT VERTICAL BARS AS JAMB REINFORCING IN FIRST 2 CELLS ADJACENT TO OPENING. REINFORCE EACH CELL WITH SIZE & QUANTITY OF BAR TO MATCH WALL REINFORCING (1 BAR TYPICAL IN 8" WALLS AND 2 BARS TYPICAL IN 12" WALLS).
- INTEL REINFORCING PER SECTION C. EXTEND 2'-0" PAST EDGE OF OPENING ON EACH SIDE (TYPICAL).
- 2-#5 CONTINUOUS HORIZONTAL BARS AS SILL REINFORCING IN 8" COURSE BELOW OPENING (U.N.O.). EXTEND 2'-0" PAST EDGE OF OPENING ON EACH SIDE (TYPICAL).
- FULL HEIGHT VERTICAL BARS PER MASONRY VERTICAL REINFORCING SCHEDULE LOCATED IN END CELL AT EACH SIDE OF VERTICAL WALL CONTROL JOINTS.

GENERAL CRITERIA: (SECTION A CONTINUED):

- VERTICAL REINFORCING BARS SHALL BE DOWELED TO FOUNDATION WITH A DOWEL OF MATCHING SIZE AND SPACING.
- CONTRACTOR SHALL COORDINATE AND VERIFY OPENINGS IN MASONRY WALLS. OPENINGS SHALL BE DETAILED ON REINFORCING STEEL SHOP DRAWING ELEVATIONS.
- VERTICAL CONTROL JOINTS IN MASONRY WALLS SHALL BE 3/8" WIDE. FULL HEIGHT OF WALL. JOINTS SHALL BE SPACED AT A MAXIMUM OF 24'-0" ON CENTER AND NOT LESS THAN 2'-0" FROM THE EDGE OF ANY OPENING. ALL HORIZONTAL JOINT REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL JOINTS. ALL BOND BEAM HORIZONTAL REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL JOINTS. CONTRACTOR SHALL COORDINATE AND VERIFY ALL CONTROL JOINT LOCATIONS.

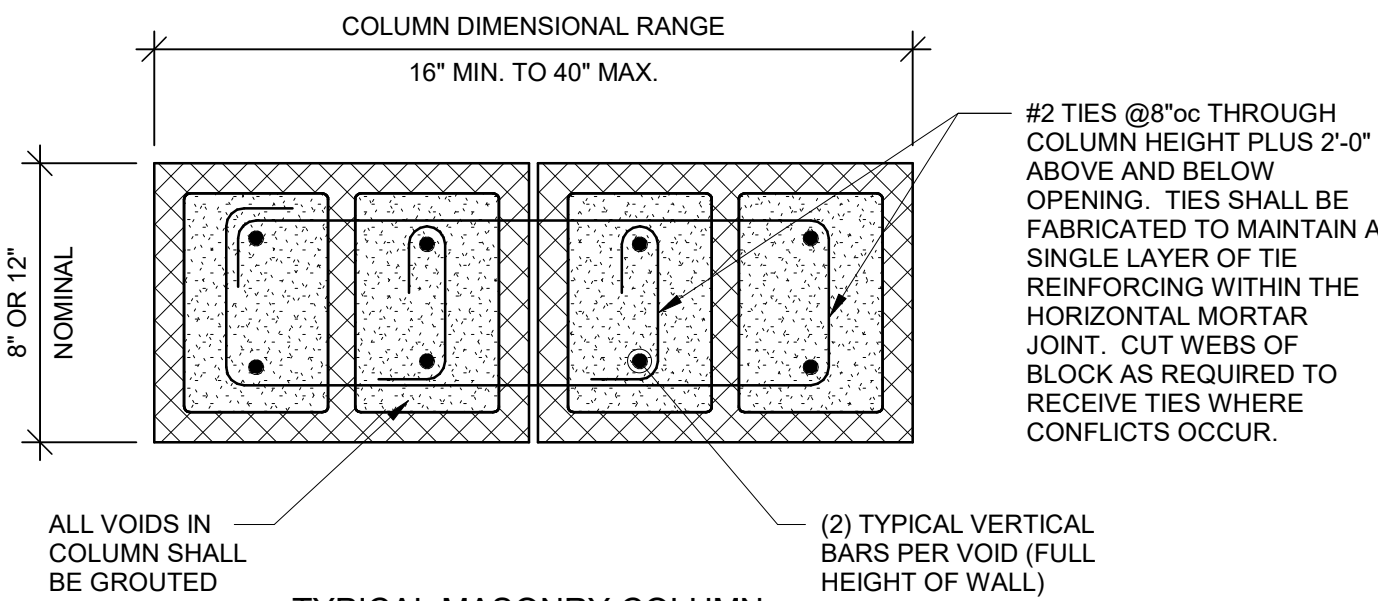
MASONRY VERTICAL REINFORCING SCHEDULE FOR LOAD BEARING MASONRY (CMU) WALLS			
WALL THICKNESS	LOCATION	VERTICAL REINF. (IN GROUTED CELLS)	SPACING
8"	ALL 8" WALLS (U.N.O.)	1- #5	32"oc
NOTES: 1. IN ADDITION TO SPACING SHOWN IN SCHEDULE, VERTICAL REINFORCING SHALL BE PROVIDED IN GROUTED CELLS AT THE FOLLOWING LOCATIONS A.) IN THE FIRST 2 CELLS ADJACENT TO EACH OPENING B.) IN THE END CELLS ON EACH SIDE OF VERTICAL CONTROL JOINTS C.) IN THE END CELLS OF EACH LENGTH OF WALL D.) AT EACH CORNER OF WALLS 2. ALL MASONRY VOIDS AND BOND BEAMS TO BE GROUTED SHALL BE FREE OF DEBRIS AND MORTAR DROPPINGS PRIOR TO GROUTING. ANY MASONRY w/ DROPPINGS OR DEBRIS OBSERVED IN VOIDS SHALL BE REJECTED.			

A CMU WALL ELEVATION
1 1/2" = 1'-0"



TYPICAL REBAR POSITIONING DETAIL

B SECTION
1 1/2" = 1'-0"

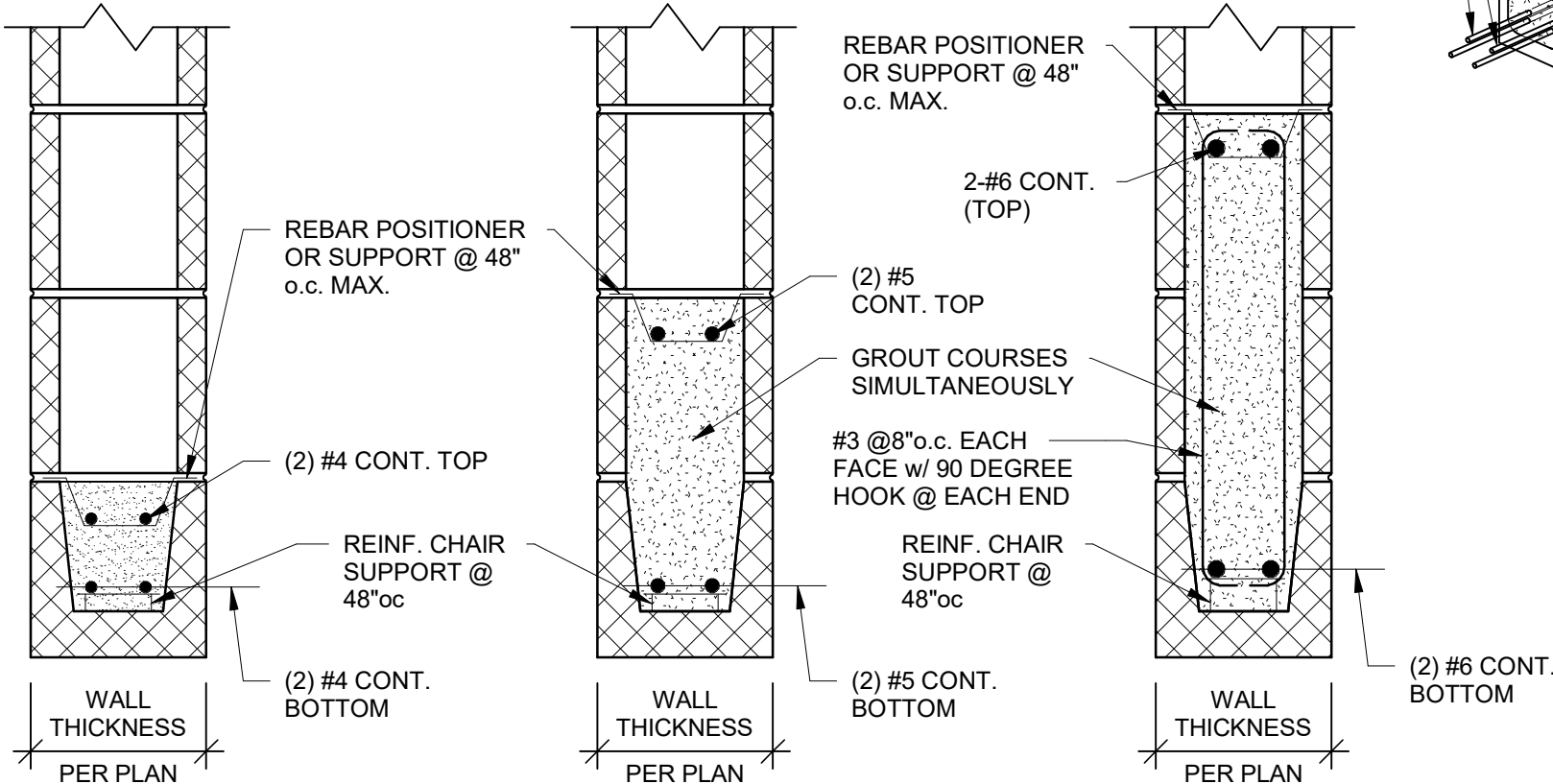


TYPICAL MASONRY COLUMN

E SECTION
1 1/2" = 1'-0"

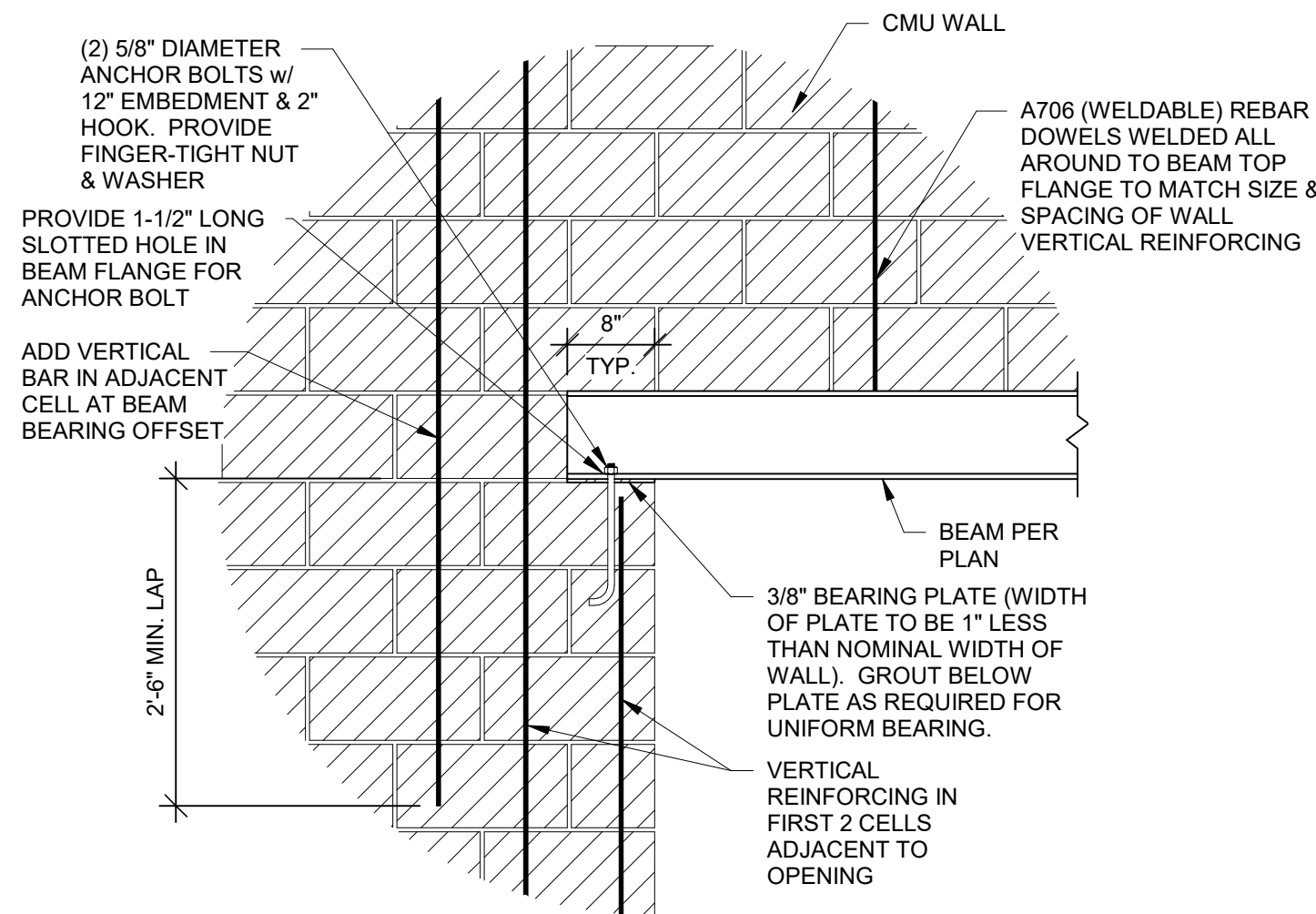
TYPICAL MASONRY REINFORCING NOTE:

ALL INTERIOR & EXTERIOR MASONRY WALLS SHOWN ON ARCHITECTURAL AND STRUCTURAL DRAWINGS ARE TO BE REINFORCED HORIZONTALLY WITH BOND BEAMS (2- #5 BOTTOM) AT BOTTOM COURSE, TOP COURSE, JOIST BEARING ELEVATION AND AT 8'-0" MAXIMUM O.C. AND VERTICALLY AS INDICATED ON DRAWINGS. THESE WALLS ARE TO BE ANCHORED TOP AND BOTTOM TO THE FOUNDATION, FLOOR, OR ROOF PER TYPICAL DETAILS. THE VERTICAL REINFORCING IS CONTINUOUS (IN 6'-6" MAXIMUM LENGTHS, LAPPED 2'-6" MINIMUM). FILL BLOCK CELLS AND BOND BEAMS WITH 2,500psi GROUT. RE: DETAILS "A" THROUGH "E" ON THIS SHEET.



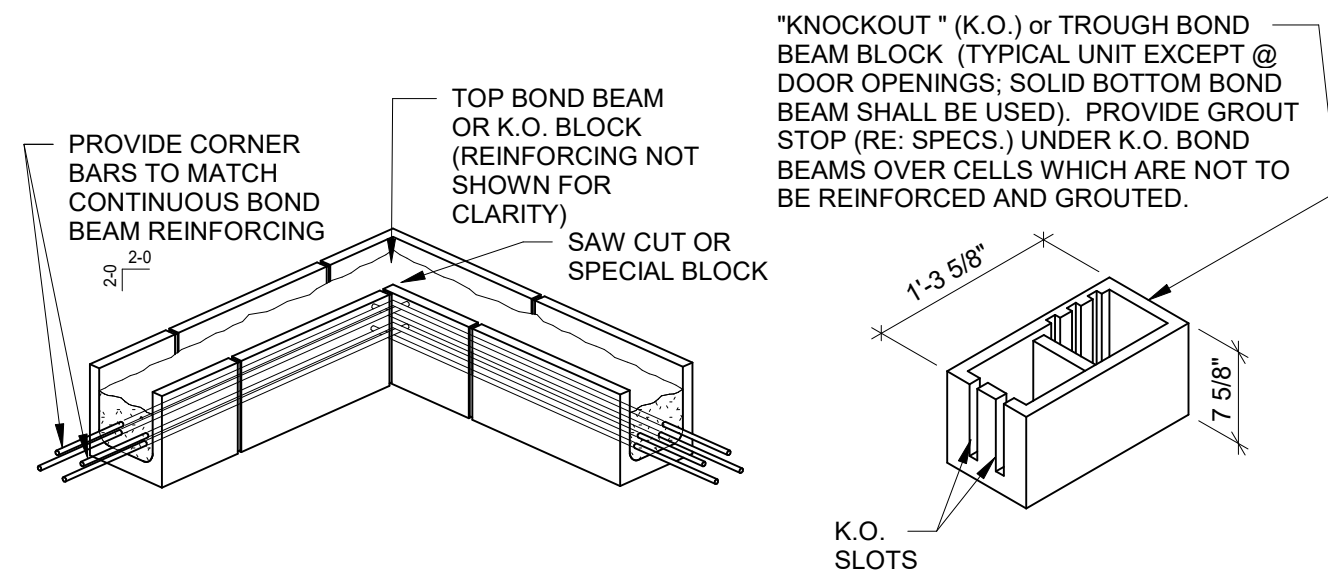
TYPICAL LINTELS AT ALL CMU WALLS (U.N.O.)

C SECTION
1 1/2" = 1'-0"



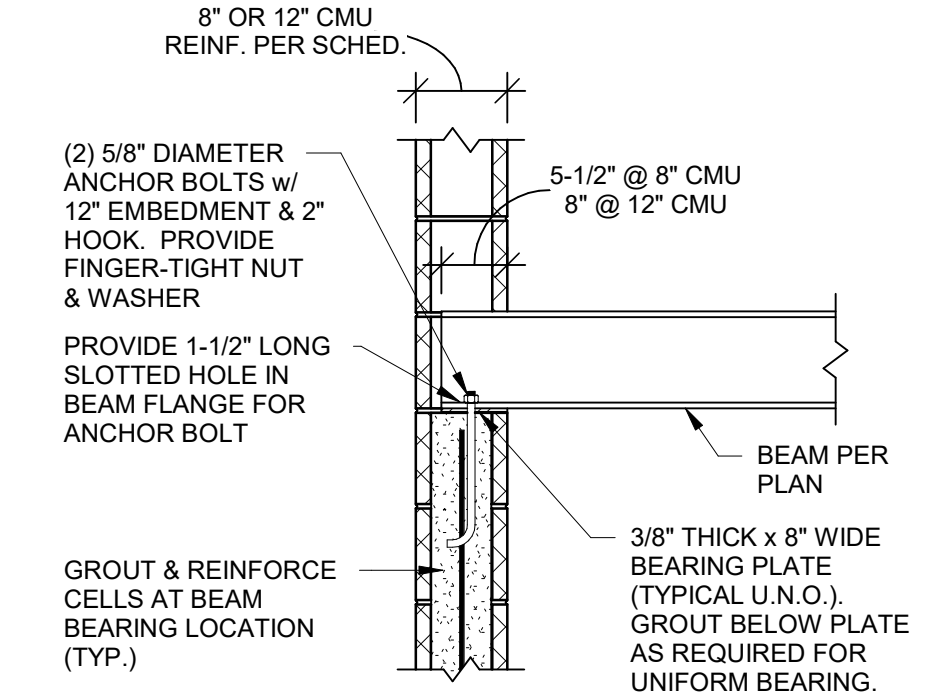
TYPICAL STEEL LINTEL DETAIL AT CMU WALL

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



TYPICAL BOND BEAM DETAIL AT CORNER OF CMU WALL

D DETAIL
3/4" = 1'-0"



TYPICAL WIDE FLANGE BEAM BEARING ON CMU (U.N.O.)

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



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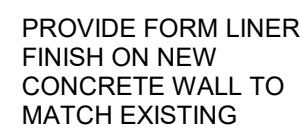


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CMU DETAILS

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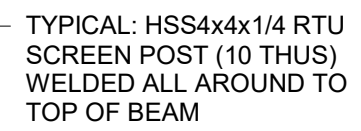


5 3D VIEW 1



NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01.
2. VERIFY ALL DIMENSIONS & ELEVATIONS w/ ARCHITECTURAL DRAWINGS.
3. FIELD VERIFY ALL EXISTING CONDITIONS, INCLUDING DIMENSIONS & ELEVATIONS.



REINFORCE NEW 12" CONCRETE
WALL w/ #5@12"oc EACH WAY,
EACH FACE w/ MATCHING DWLS
TO FOOTING. PROVIDE FORM
LINER FINISH TO MATCH
EXISTING CONCRETE WALLS.

2 ROOF FRAMING PLAN

NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01.
2. VERIFY ALL DIMENSIONS & ELEVATIONS w/ ARCHITECTURAL DRAWINGS.
3. FIELD VERIFY ALL EXISTING CONDITIONS, INCLUDING DIMENSIONS & ELEVATIONS.

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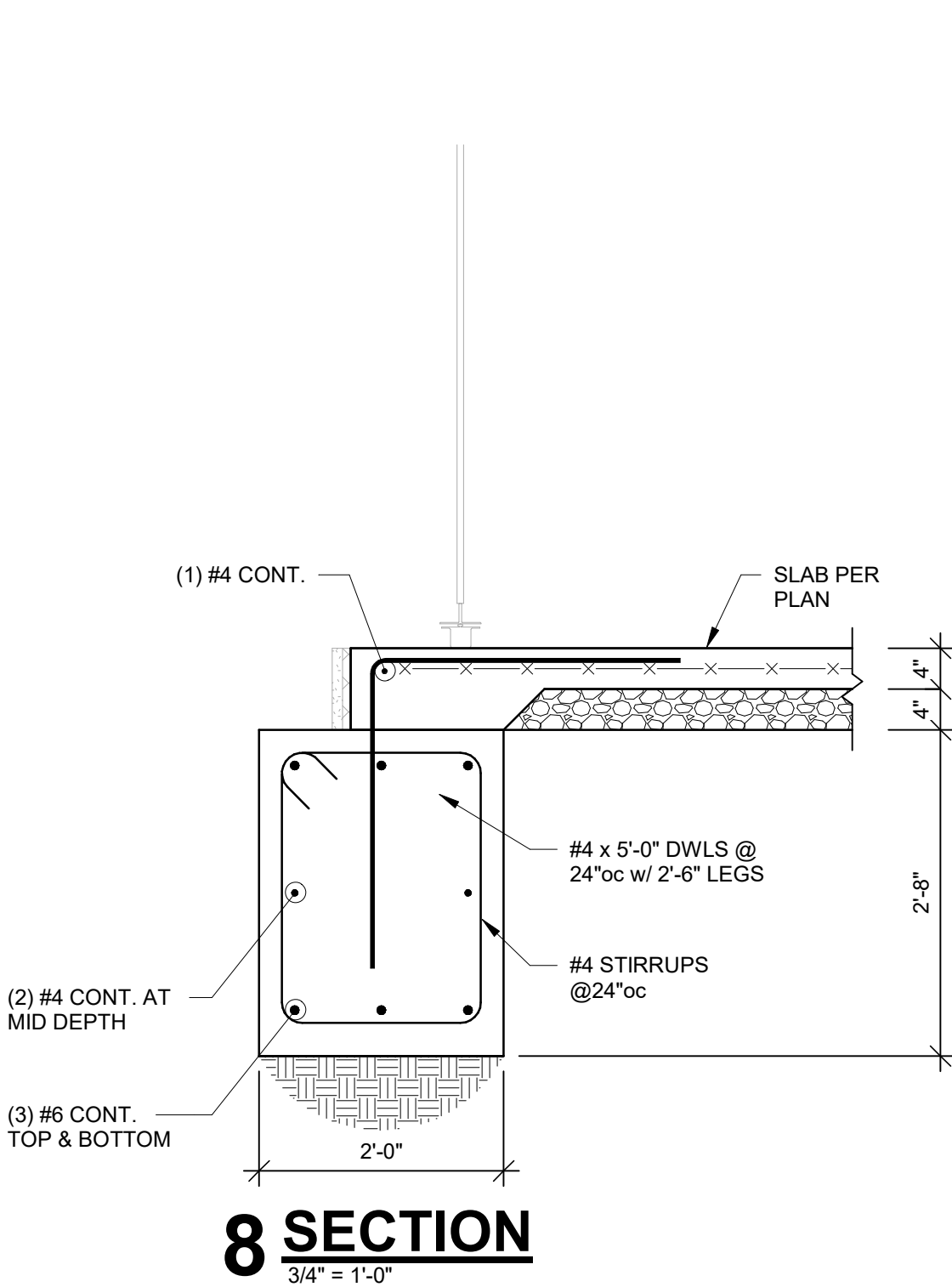
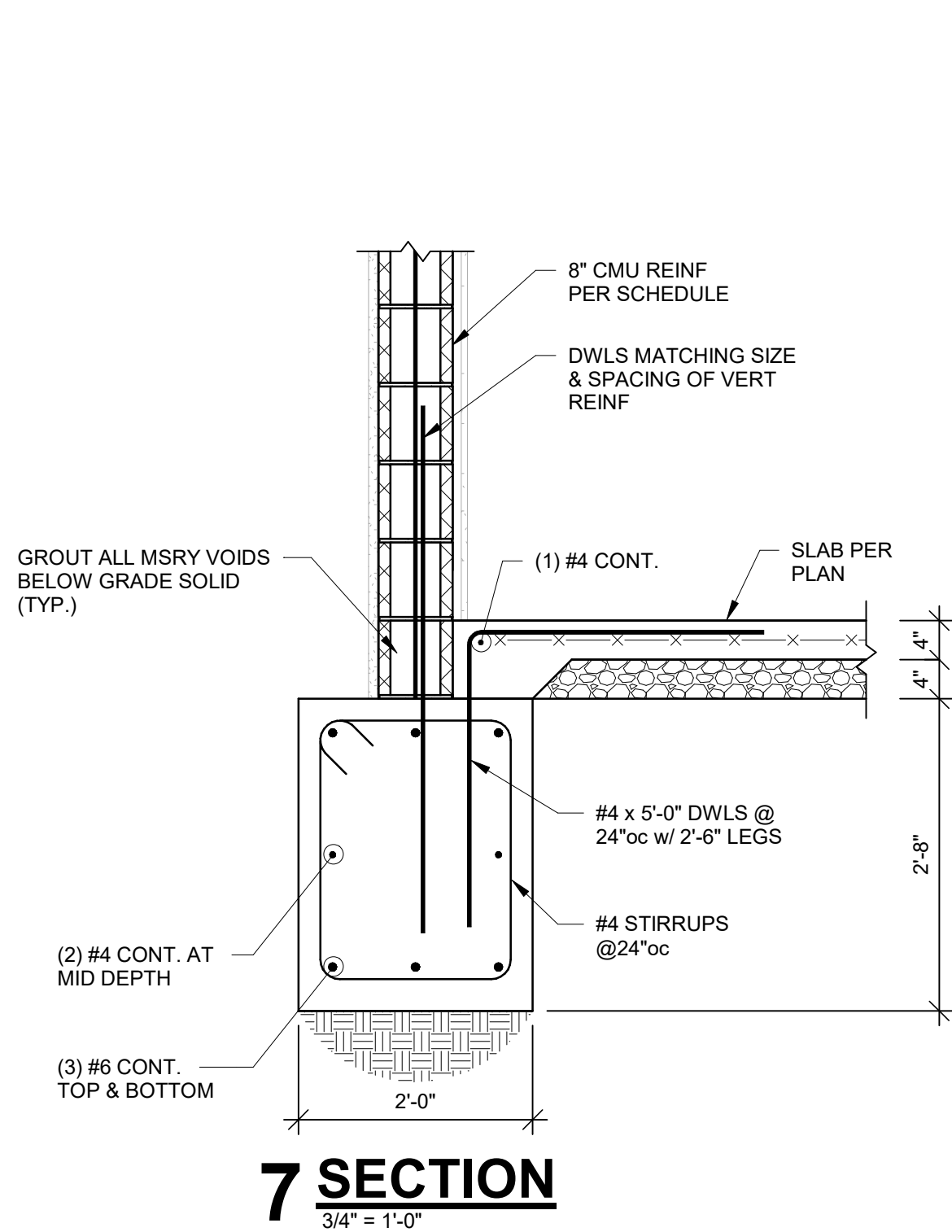
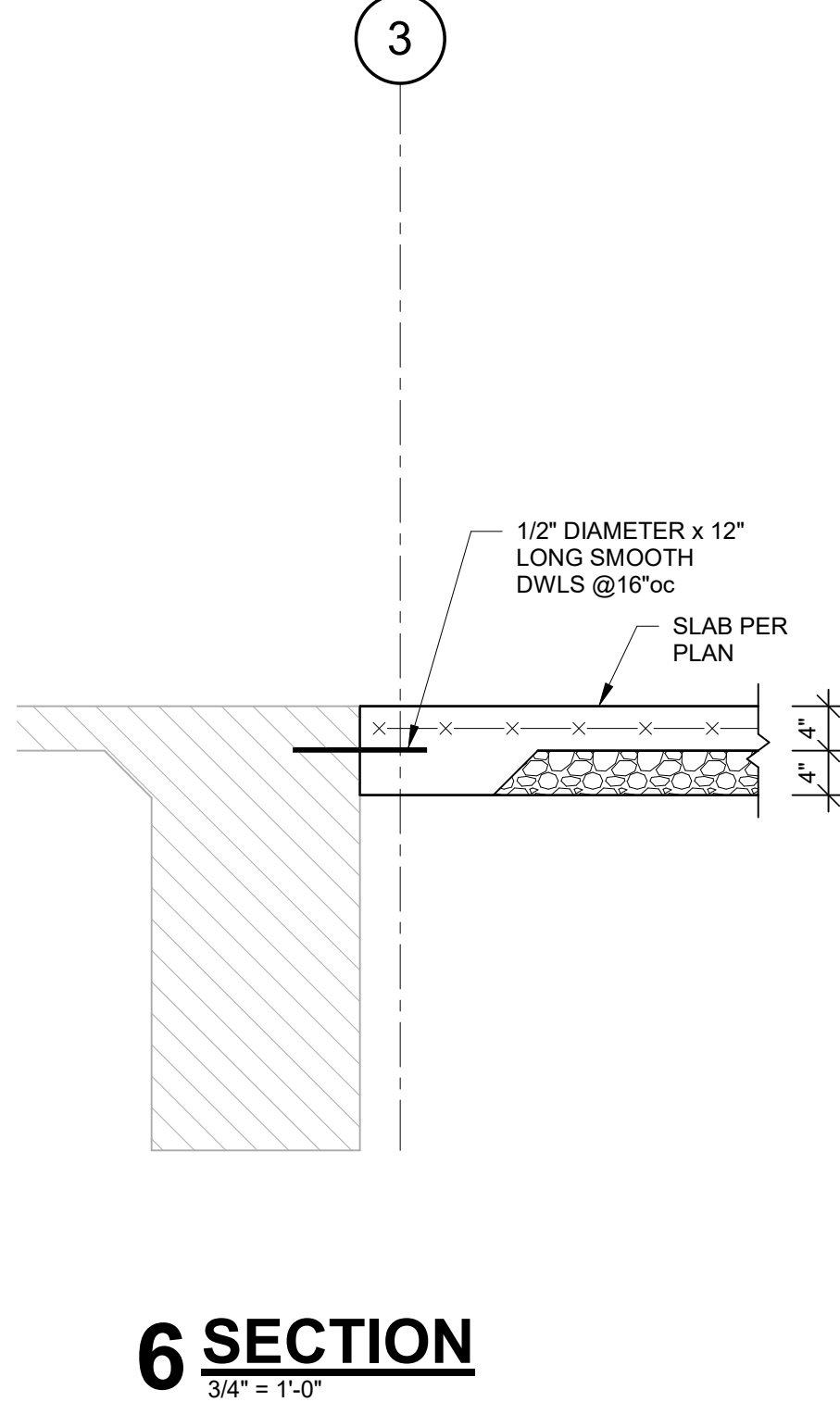
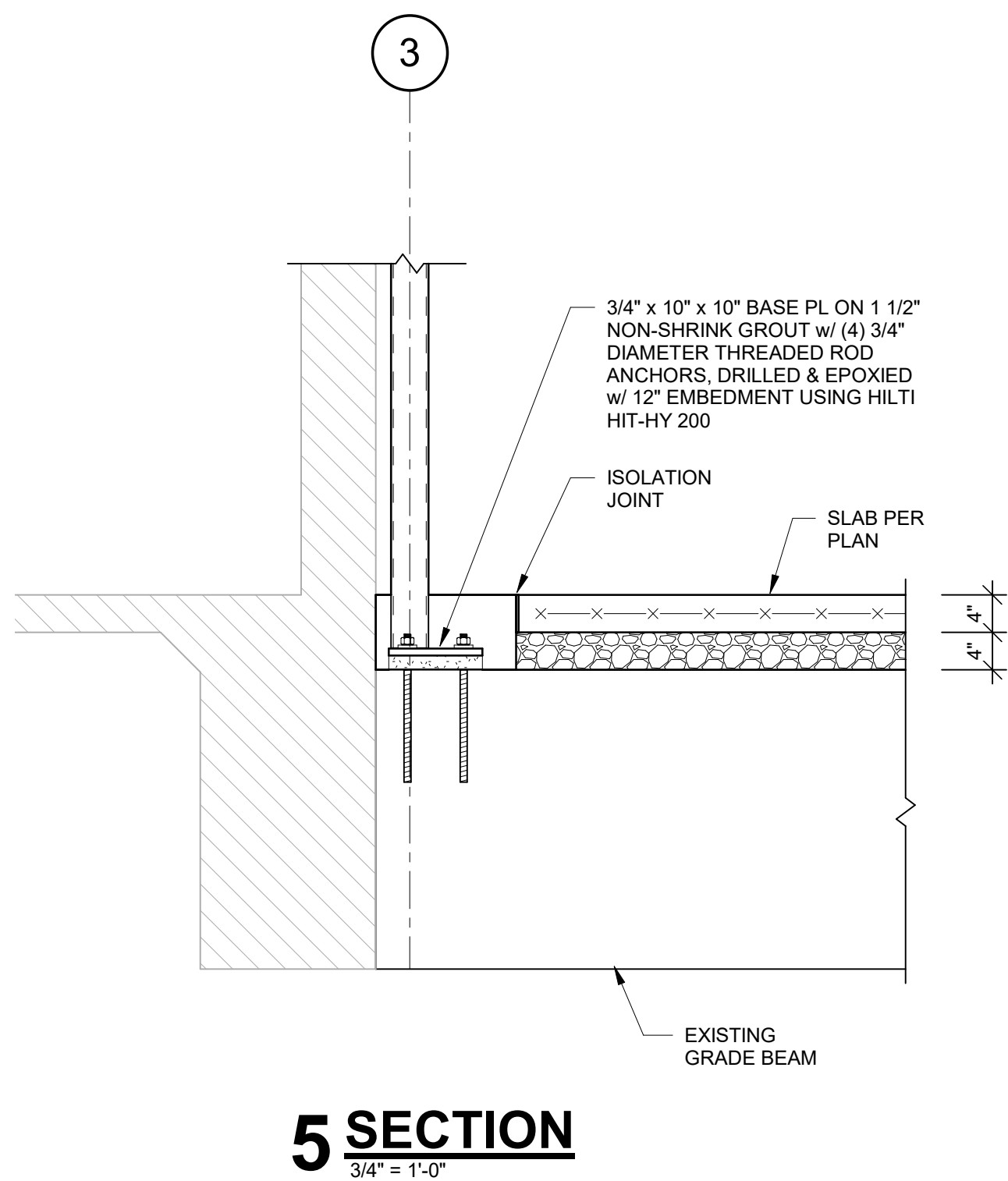
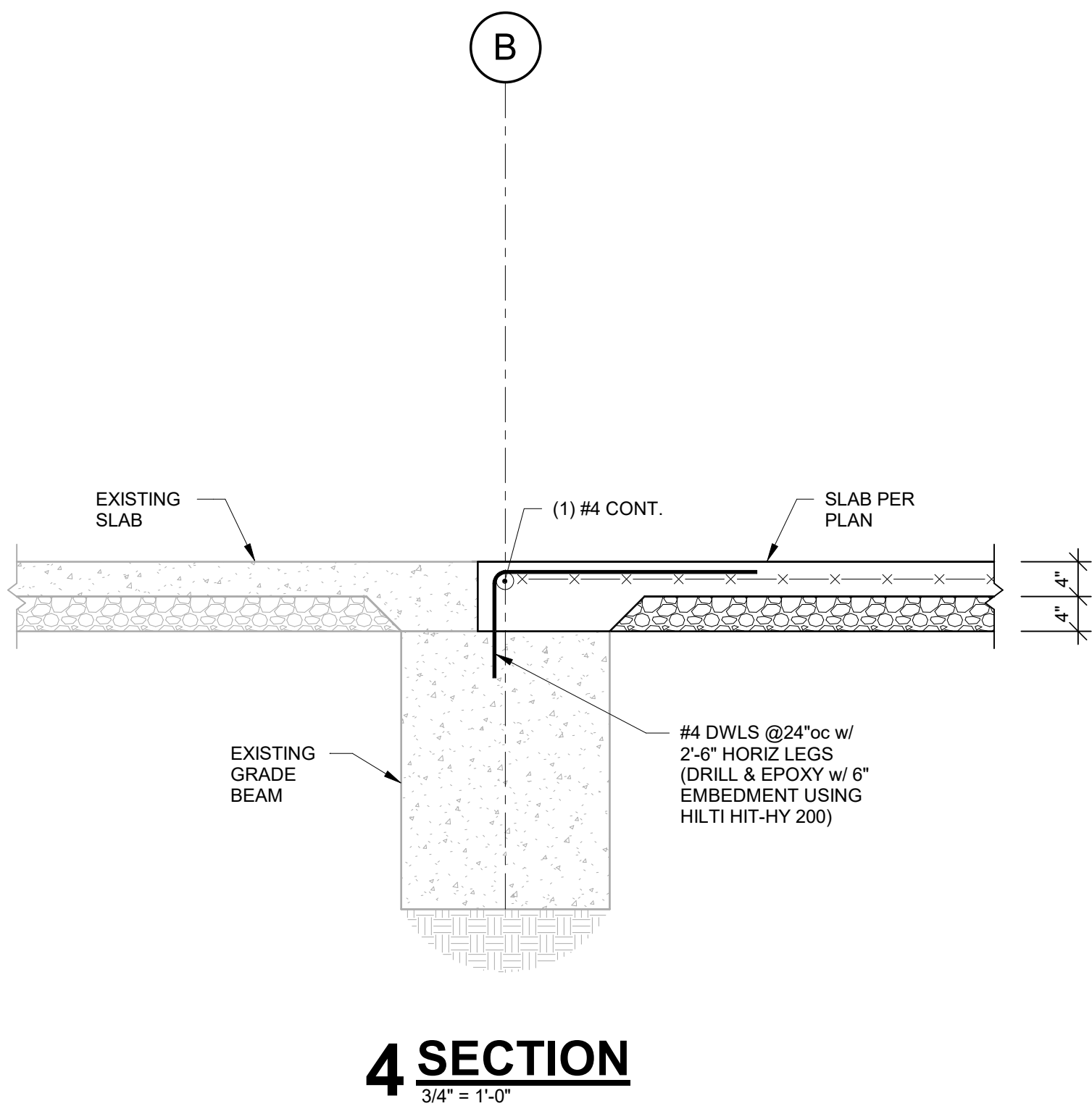
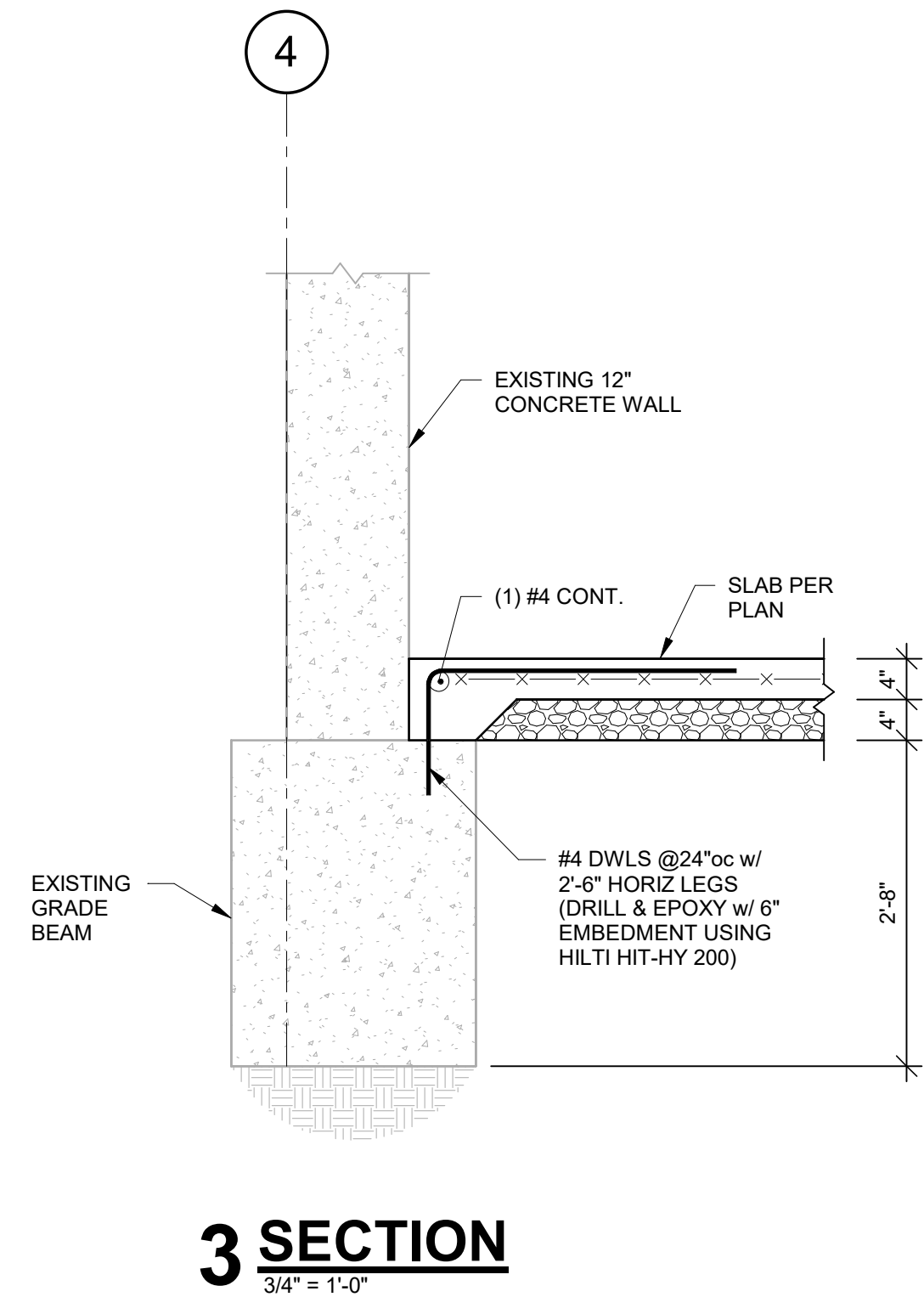
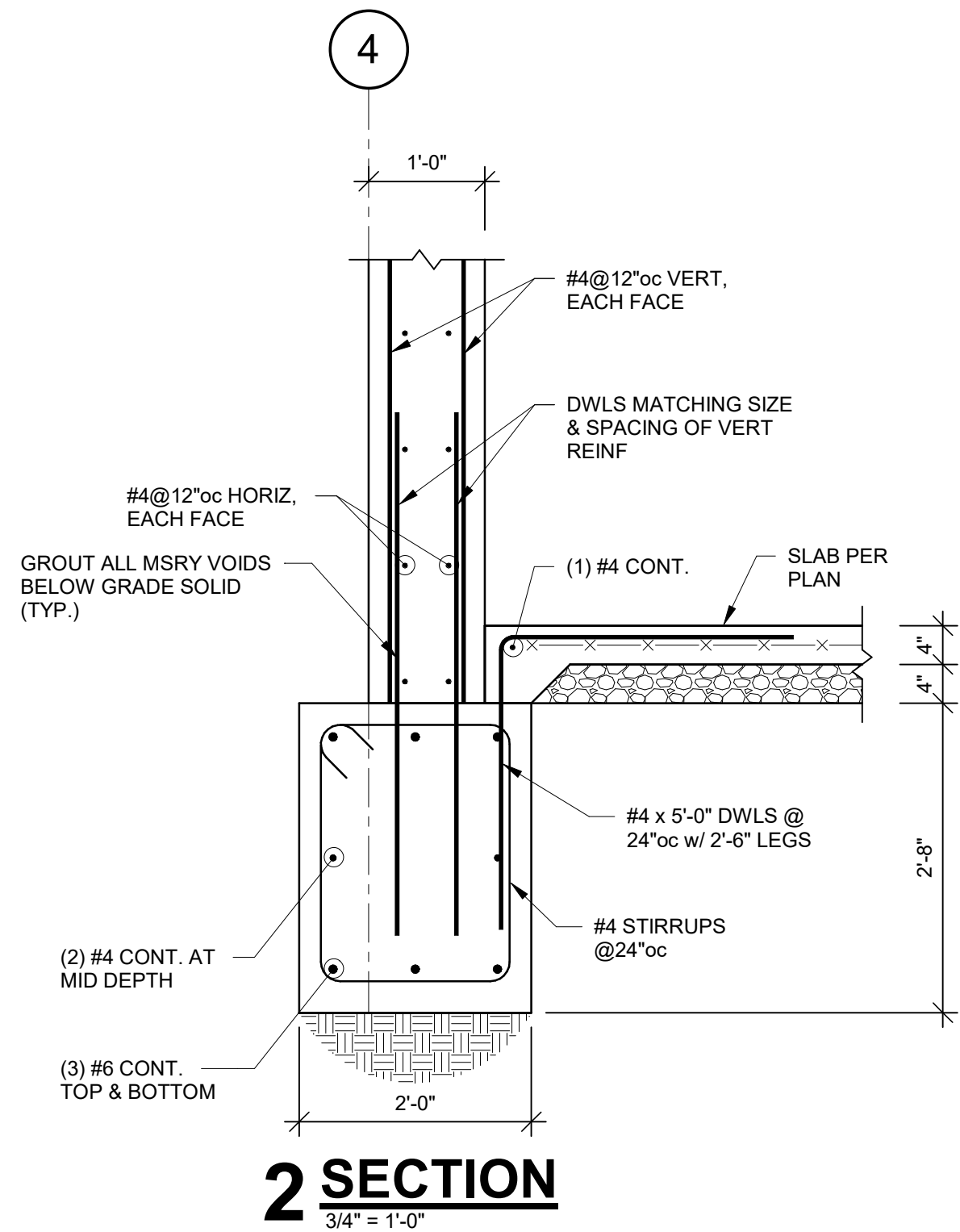
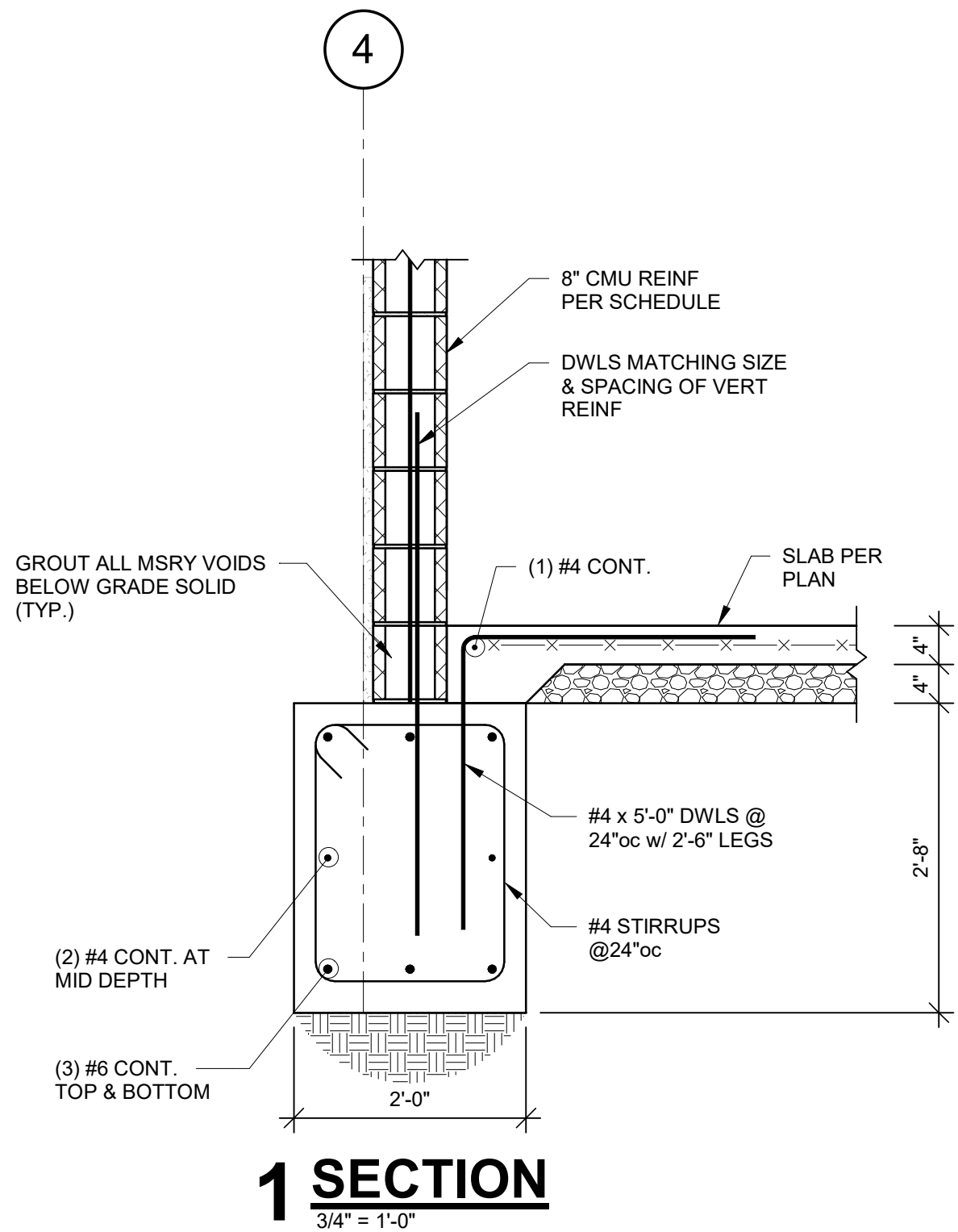


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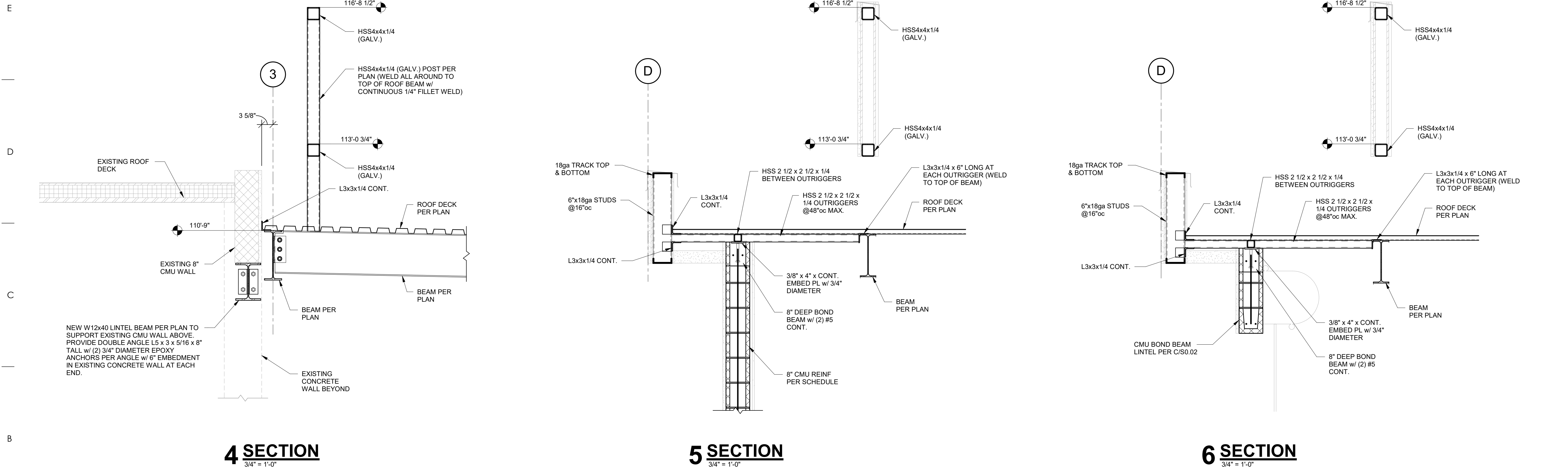
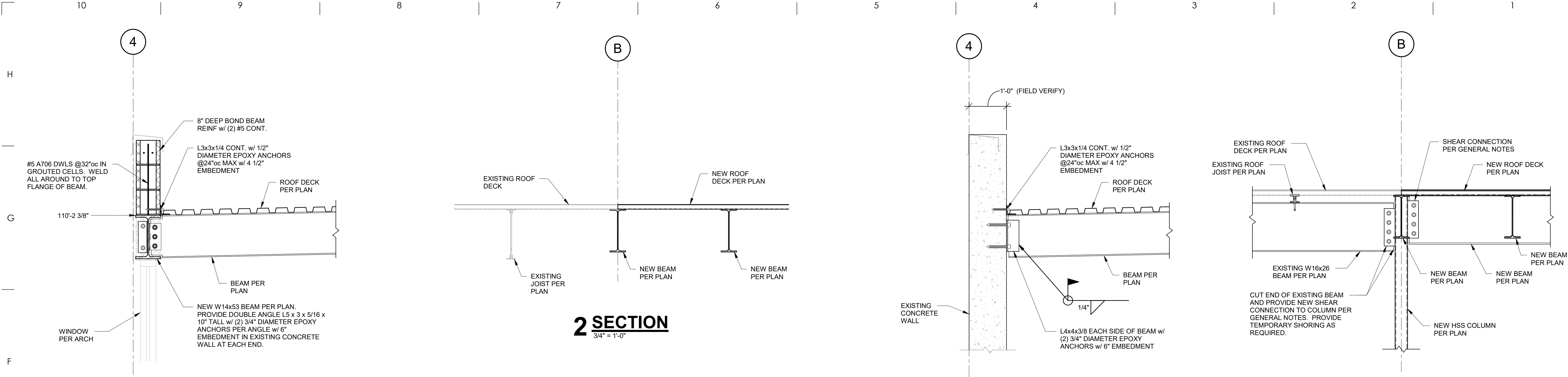
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SECTIONS

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ABBREVIATIONS

A/E	ARCHITECT / ENGINEER	ELEV	ELEVATION	MH	MANHOLE
AF	ABOVE FINISHED FLOOR	EM	EMERGENCY FIXTURE/DEVICE	MLO	MAIN LUGS ONLY
AFG	ABOVE FINISHED GRADE	EW	ENTERING WATER TEMPERATURE	NFA	NET FREE AREA
AG	ABOVE GRADE	EX	EXISTING ITEM	NL	NIGHT LIGHT
AHJ	AUTHORITY HAVING JURISDICTION	FFA	FROM FLOOR ABOVE	CA	OUTSIDE AIR
AH	AIR HANDLING UNIT	FFB	FROM FLOOR BELOW	ORD	OVERFLOW ROOF DRAIN
ARCH	ARCHITECT	FFCO	FINISHED FLOOR CLEAN OUT	P/C	PLUMBING CONTRACTOR
BFP	BACKFLOW PREVENTER	FFCQ	FLUSH GRADE CLEAN OUT	PSI	POUNDS PER SQUARE INCH
BG	BELOW GRADE	FL	FLOOR LINE	PVC	POLYVINYLCHLORIDE
BLDG	BUILDING	FLR	FLOOR	RA	RETURN AIR
BMS	BUILDING MANAGEMENT SYSTEM	FP	FIRE PROTECTION	RE/REF	REFER / REFERENCE
C	CONDUIT	FCM	FEET PER MINUTE	RF	RELIEF FAN
CD	CANDELA	FWCO	FLUSH WALL CLEAN OUT	RL	RELIEF LINE
CD	COLD DECK	G	GROUND / GANG	RP	REDUCED PRESSURE ZONE
CLG	COOLING	G/C	GENERAL CONTRACTOR	RR	RESTROOM
CM	COORDINATE MOUNTING HEIGHT	GFI	GROUND FAULT CIRCUIT INTERRUPTER	SPD	SURGE PROTECTIVE DEVICE
CO	CLEAN OUT	GFP	GFI-PROTECTED DEVICE	ST	SHUNT TRIP
CCE	CONNECT TO EXISTING	GP	GALLONS PER MINUTE	TA	TRANSFER AIR
CCA	DOUBLE CHECK VALVE ASSEMBLY	HD	HEAD DECK	TL	TO FLOOR ABOVE
DCW	DOMESTIC COLD WATER	HG	HEATING	TB	TO FLOOR BELOW
DDC	DIRECT DIGITAL CONTROLS	IG	ISOLATED GROUND	TF	TAMPER-PROOF
DF	DRINKING FOUNTAIN	JB	JUNCTION BOX	TY	TYPICAL
DHW	DOMESTIC HOT WATER	LED	LIGHT EMITTING DIODE	UNP	UNLESS NOTED OTHERWISE
DHWR	DOMESTIC HOT WATER RETURN	LWT	LEAVING WATER TEMPERATURE	VRF	VARIABLE REFRIGERANT FLOW
DN	DOWN	M/C	MECHANICAL CONTRACTOR	W	WALL CLEANOUT
E/C	ELECTRICAL CONTRACTOR	MA	MIXED AIR	WG	WIRE GUARD
EA	EXHAUST AIR	MCB	MAIN CIRCUIT BREAKER	WP	WEATHERPROOF
EDF	ELECTRIC DRINKING FOUNTAIN	MECH	MECHANICAL		

ELECTRICAL SYMBOL LEGEND

SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED

CIRCUITING	POWER DEVICES	FIRE ALARM
HOME RUN (2#12 1#12G UNO)	DUPLEX RECEPTACLE	MANUAL PULL STATION
INDICATES 2 PHASE, 1 N, & 1 G CONDUCTOR	LINE THRU DEVICE INDICATES ABOVE COUNTER	CEILING SMOKE DETECTOR
HOME RUN: INDICATES SHARED CIRCUIT	SPECIAL DUPLEX RECEPTACLE (GFCI, ISOLATED GROUND, ETC.)	DUCT SMOKE DETECTOR
HOME RUN: INDICATES #10 CONDUCTORS ENTIRELY	QUADPLEX RECEPTACLE	HEAT DETECTOR
UTILITIES	SIMPLEX RECEPTACLE W/NEMA CONFIG AS NOTED	WATERFLOW SWITCH
UNDERGROUND ELECTRICAL	MULTI-POLE RECEPTACLE W/NEMA CONFIG AS NOTED	T5
OVERHEAD ELECTRICAL	CEILING MOUNTED RECEPTACLE	75
TELECOMMUNICATIONS CONDUIT	RECEPTACLE/DEVICE MOUNTED IN "TOMBSTONE"	WALL-MOUNTED FA STROBE WITH CANDELA RATING. 15cd RATING UNLESS OTHERWISE NOTED ON PLANS.
UNDERGROUND TELECOMMUNICATIONS CONDUIT	POKE-THRU WITH POWER	WALL-MOUNTED FA HORN
LIGHTING	POKE-THRU WITH TELECOMMUNICATIONS	WALL-MOUNTED FA SPEAKER
GRID-MOUNTED TROFFER LIGHT FIXTURE	POKE-THRU W/POWER AND TELECOM	WALL-MOUNTED FA HORN/STROBE WITH CANDELA RATING. 15cd UNLESS OTHERWISE NOTED ON PLANS.
STRIP LIGHT FIXTURE	FLOOR BOX	CEILING-MOUNTED FA STROBE WITH CANDELA RATING. MINIMUM OF 15cd RATING.
SURFACE/RECESSED LIGHT FIXTURE	DIVIDED POWER POLE	CEILING-MOUNTED FA SPEAKER.
WALL-MOUNTED LIGHT FIXTURE	CLOCK RECEPTACLE	CEILING-MOUNTED FA HORN/STROBE WITH CANDELA RATING. MINIMUM OF 15cd RATING.
POLE-MOUNTED LIGHT FIXTURE	PLUG MOLD / WIRE MOLD AS SPECIFIED	CEILING-MOUNTED FA SPEAKER/STROBE WITH CANDELA RATING. MINIMUM OF 15cd RATING.
EXIT LIGHT	JUNCTION BOX	RELAY
BATTERY-OPERATED EMERGENCY LIGHT (WALL MTD)	THERMOSTAT - ELECTRIC	FIRE ALARM CONTROL PANEL
BATTERY-OPERATED EMERGENCY LIGHT (CEILING MTD)	PUSH BUTTON	FIRE ALARM ANNUNCIATOR PANEL
WALL-MOUNTED COMBINATION EXIT LIGHT/BATTERY-OPERATED EMERGENCY LIGHT	MOTOR	REMOTE ANNUNCIATOR PANEL
LIGHT SWITCH - SINGLE POLE	TELEPHONE/DATA	FIRE ALARM EXTENDER CABINET
LIGHT SWITCH - 3-WAY	TELEPHONE OUTLET (SINGLE-GANG BOX WITH (1) 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING)	DOOR HOLDER
LIGHT SWITCH - 4-WAY	LINE THRU DEVICE INDICATES ABOVE COUNTER	SINGLE / MULTI-STATION 120V SMOKE ALARM
LIGHT SWITCH - KEY	DATA OUTLET (DOUBLE-GANG BOX WITH (2) 3/4" CONDUITS TO ABOVE ACCESSIBLE CEILING)	ZONE ADDRESSABLE MODULE
LIGHT SWITCH - DIMMER	TELEPHONE/DATA OUTLET (DOUBLE-GANG BOX WITH (2) 3/4" CONDUITS TO ABOVE ACCESSIBLE CLG.)	INDIVIDUAL ADDRESSABLE MODULE
LIGHT SWITCH - PILOT LIGHT	PHONE OUTLET WITH NUMBER OF PHONE JACKS AS INDICATED - SEE DETAILS FOR ADD'L INFO.	KITCHEN HOOD FIRE SUPPRESSION SYSTEM PANEL
LIGHT SWITCH - 2 POLE	DATA OUTLET WITH NUMBER OF PHONE JACKS AS INDICATED - SEE DETAILS FOR ADD'L INFO.	KITCHEN HOOD REMOTE PULL STATION
LIGHT SWITCH - 3-WAY DIMMER	PHONE/DATA OUTLET WITH NUMBER OF PHONE/DATA JACKS AS INDICATED - SEE DETAILS FOR ADD'L INFO.	AREA OF RESCUE ASSISTANCE STATION
WALL-MOUNTED MOTION SWITCH	WALL-MOUNTED WIRELESS INTERNET TRANSMITTER	AREA OF RESCUE ASSISTANCE MASTER STATION
CEILING-MOUNTED MOTION SWITCH	CEILING-MOUNTED WIRELESS INTERNET TRANSMITTER	SECURITY
SWITCHBANK - REFER TO DETAILS	AUDIO/VISUAL	FIXED CAMERA
DIMMER BOARD	TELEVISION OUTLET (SINGLE GANG BOX WITH (1) 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING)	PAN/TILT/ZOOM CAMERA
REMOTE CONTROL SWITCH AS SCHEDULED	REVERSE TELEVISION OUTLET - CABLE TO HEAD END	PROXIMITY TYPE CARD READER
TIMECLOCK - REFER TO PLANS / DETAILS	RECESSED COMBINATION AV AND POWER OUTLET	SWIPE CARD READER
EQUIPMENT	COORD LOCATION OF DEVICE WITH TV MOUNT	ELECTRIC STRIKE
DISCONNECT SWITCH. RE: PLANS FOR INFORMATION.	TEACHER'S DESK CONNECTIONS - RE: DETAILS	KEYPAD / MAG LOCK
MAGNETIC MOTOR STARTER	WALL SPEAKER	BUTTON / MAG LOCK
COMBINATION DISCONNECT SWITCH / MOTOR STARTER	CEILING SPEAKER	
TOGGLE-TYPE DISCONNECT. FURNISH WITH THERMAL MOTOR PROTECTION WHERE SERVING FANS/PUMPS.	CEILING SPEAKER - SUBWOOFER	
SURFACE PANELBOARD	CEILING SPEAKER - SOUND SYSTEM	
RECESSED PANELBOARD	VOLUME CONTROL	
DISTRIBUTION PANELBOARD	SOUND SYSTEM AUDIO JACK	
SWITCHBOARD, FEEDER/MAIN CIRCUIT BREAKER SECTION AND DISTRIBUTION SECTION.	REMOTE MICROPHONE CONTROL	
GENERAL SYMBOLS	COMMUNICATIONS SYMBOLS	
INDICATES CONNECT TO EXISTING	INTERCOM CALL STATION	
INDICATES ELEVATION	INTERCOM HANDSET	
EQUIPMENT TAG. REFER TO CONNECTIONS SCHEDULE FOR ELECTRICAL CONNECTIONS AND LOAD INFO FOR KITCHEN, SHOP, ETC. EQUIPMENT	PUBLIC ADDRESS SYSTEM AMPLIFIER	
	INTERCOM MASTER STATION	
	WALL SPEAKER - HORN TYPE	
	CEILING SPEAKER - HORN TYPE	
	ELEVATOR 2-WAY COMMUNICATION STATION	
	ELEVATOR 2-WAY COMMUNICATION MASTER STATION	
	ELEVATOR 2-WAY COMMUNICATION POWER SUPPLY	

MECHANICAL AND PLUMBING SYMBOL LEGEND

SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED

SHEET METAL	MECHANICAL PIPING	PIPING SYMBOLS
HIGH EFFICIENCY ROUND DUCT TAKEOFF (WITH & WITHOUT MANUAL DAMPER)	REFRIGERANT LIQUID	SHUTOFF VALVE
SPIN-IN ROUND DUCT TAKEOFF (WITH & WITHOUT MANUAL DAMPER)	REFRIGERANT SUCTION	SHUTOFF VALVE IN RISER
CONICAL BELLMOUTH ROUND TAKEOFF	DRAIN (CONDENSATE)	BALANCING VALVE
ROUND DUCT RUNOUT WITH FLEX DUCT	COMPRESSED AIR	PLUG VALVE
DUCTWORK ELBOW (WITH & WITHOUT TURNING VANES)	CHILLED WATER SUPPLY	AUTO FLOW CONTROL VALVE
FD-FIRE DAMPER	CHILLED WATER RETURN	PIPING ELBOW UP
FS-FIRE/SMOKE DAMPER	CHILLED/HOT WATER SUPPLY	PIPING ELBOW DOWN
SD-SMOKE DAMPER	CHILLED/HOT WATER RETURN	PIPING TEE
AUTOMATIC MOTORIZED DAMPER	HOT WATER SUPPLY	PIPING ELBOW
SUPPLY DIFFUSER AND DIFFUSER CALLOUT (NECK SIZE, TYPE AND CFM)	HOT WATER RETURN	PIPING TEE UP
LINEAR/SLOT DIFFUSER	COOLING TOWER SUPPLY	PIPING TEE DOWN
RETURN GRILLE OR EXHAUST REGISTER	COOLING TOWER RETURN	INCREASE / REDUCER
SUPPLY AIR FLOW INDICATOR	STEAM (ANY #'S DENOTE PRESSURE)	UNION
RETURN AND EXHAUST AIR FLOW INDICATOR	CONDENSATE RETURN ('#S DENOTE PRESSURE)	CAP
THERMOSTAT	REFRIGERANT VENT	PIPE FLEX
TEMPERATURE SENSOR	RUPTURE DISK	STRAINER
HUMIDISTAT	PLUMBING PIPING	CHECK VALVE
CONTROL WIRING	DOMESTIC COLD WATER	INLINE STRAINER
GENERAL SYMBOLS	DOMESTIC HOT WATER	TEST PLUG
INDICATES CONNECT TO EXISTING	RECIRCULATING DOMESTIC HOT WATER	GUIDE
INDICATES ELEVATION	WASTE ABOVE GRADE OR FLOOR	ANCHOR
EQUIPMENT TAG. REFER TO CONNECTIONS SCHEDULE FOR MECHANICAL CONNECTIONS AND LOAD INFO FOR KITCHEN, SHOP, ETC. EQUIPMENT	WASTE BELOW GRADE OR FLOOR	TRIPLE DUTY VALVE
	STORM ABOVE GRADE OR FLOOR	AUTOMATIC 2-WAY CONTROL VALVE
	STORM BELOW GRADE OR FLOOR	AUTOMATIC 3-WAY CONTROL VALVE
	STORM OVERFLOW ABOVE GRADE OR FLOOR	SOLENOID VALVE
	STORM OVERFLOW BELOW GRADE OR FLOOR	
	PLUMBING VENT	PIPING SPECIALTIES
	WATER SERVICE	PRESS / TEMP GAUGE WITH COOK
	GAS (NATURAL)	THERMOMETER.
	FROM SUMP PUMP DISCHARGE	PRESSURE REDUCING VALVE
	COMPRESSED AIR	RELIEF VALVE
	PROPANE	WATER HAMMER ARRESTOR
	SOFT DOMESTIC COLD WATER	PLUMBING FIXTURES/EQUIPMENT
	SOFT DOMESTIC HOT WATER	HOSE BIBB
	SOFT RECIRCULATING HOT WATER	WALL HYDRANT
	ACID WASTE	CLEAN OUT
	ACID WASTE VENT	REDUCED PRESSURE BACKFLOW PREVENTER
	NON-POTABLE	DOUBLE CHECK BACKFLOW PREVENTER
	DEIONIZED WATER	PLUMBING FIXTURE AND CALLOUT
	REVERSE OSMOSIS WATER	FD: FLOOR DRAIN, AD: AREA DRAIN, FS: FLOOR SINK
	PLUMBING RISER CALLOUT (REFERS TO RISER DIAGRAM)	RD: ROOF DRAIN, ORD: OVERFLOW ROOF DRAIN
	FIRE SPRINKLER	
	FIRE PROTECTION PIPING	
	SPRINKLER HEAD	
	SIDEWALL SPRINKLER HEAD	
	FIRE PROTECTION SAMESE CONNECTION	
	POST INDICATOR VALVE	

GEN. MECHANICAL NOTES

1. COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE INTERNATIONAL MECHANICAL CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE AHJ.
2. ANY POWER FOR CONTROL SYSTEMS TO BE PROVIDED BY E/C IS INDICATED ON ELECTRICAL PLANS. ANY ADDITIONAL LINE VOLTAGE OR LOW VOLTAGE POWER REQUIRED BY THE M/C OR SUBCONTRACTORS TO HAVE A FULLY FUNCTIONING SYSTEM SHALL BE PROVIDED BY THE M/C CONTRACTOR OR SUBS.
3. ALL EQUIPMENT SHALL BE ADEQUATELY AND PROPERLY SUPPORTED AND FASTENED FROM STRUCTURE.
4. ALL EQUIPMENT AND ACCESSORIES INSTALLED IN CONCEALED SPACES REQUIRING ACCESS SHALL BE PROVIDED WITH ACCESS DOORS MEETING ANY FIRE REQUIREMENTS OF THE WALL/CEILING THEY ARE INSTALLED.
5. EACH AIR HANDLING UNIT OVER 2000CFM SHALL BE PROVIDED WITH A SMOKE DETECTOR TO SHUT DOWN THE UNIT PER MC 606 AS REQUIRED BY AHJ. COORDINATE WITH OTHER TRADES.
6. START UP AND ADJUST ALL EQUIPMENT AND VERIFY ALL MECHANICAL SYSTEMS IN OPERATE IN ACCORDANCE WITH THEIR INTENDED PURPOSES. SUBMIT BALANCE AND START UP REPORTS TO THE A/E. REFER TO SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS.

GENERAL PLUMBING NOTES

1. COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE INTERNATIONAL PLUMBING CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE AHJ.
2. NO PIPING SHALL BE INSTALLED WHERE IT WILL SUBJECT TO FREEZING TEMPERATURES. PIPING IN EXTERIOR WALLS SHALL BE INSTALLED ON THE WARM SIDE OF BUILDING INSULATION, INSULATED AND THE CHASE SHALL BE VENTILATED WITH GRILLES ALLOWING INDOOR AMBIENT CONDITIONS TO CIRCULATE THROUGH THE CHASE.
3. PROVIDE CLEANOUTS IN THE FOLLOWING LOCATIONS:
 - 3.1. IN ALL HORIZONTAL DRAINS (WITHIN THE BUILDING) NOT MORE THAN 100 FEET APART.
 - 3.2. IN BUILDING SEWERS LOCATED NO MORE THAN 100 FEET APART MEASURED FROM THE UPSTREAM ENTRANCE OF THE CLEANOUT.
 - 3.3. EACH CHANGE OF DIRECTION OF THE BUILDING DRAIN OR HORIZONTAL WASTE OR SOIL LINES GREATER THAN 45 DEGREES, WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A RUN OF PIPING, ONLY ONE CLEANOUT SHALL BE REQUIRED FOR EACH 40 FEET OF DEVELOPED LENGTH OF THE DRAINAGE PIPING.
 - 3.4. AT THE BASE OF EACH WASTE OR SOIL STACK.
 - 3.5. NEAR THE JUNCTION OF THE BUILDING DRAIN AND BUILDING SEWER.

COORDINATION NOTES

1. COORDINATE REQUIREMENTS FOR INSTALLATION OF SYSTEMS AND EQUIPMENT WITH ALL OTHER TRADES.
2. THE CONTRACTOR SHALL COORDINATE THE ROUTING AND PATH OF ALL SYSTEMS, CONDUITS, PIPES, DUCTS, ETC. WITH THE POSITION AND LAYOUT OF THE STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING NECESSARY OFFSETS, TURNS, RISES AND DROPS FOR SYSTEMS AND COMPONENTS AS NEEDED TO INSTALL THE M/C SYSTEMS TO CLEAR STRUCTURE, CEILINGS, ETC. AND OTHER SYSTEMS IN POTENTIAL CONFLICT WITH ROUTING.
3. COORDINATE WORK WITH OTHER TRADES TO INSTALL SYSTEMS ABOVE CEILING HEIGHTS INDICATED ON ARCHITECTURAL PLANS.
4. CHECK SPACE REQUIREMENTS WITH OTHER TRADES AND STRUCTURE/CONSTRUCTION TO ENSURE THAT ALL MATERIALS AND EQUIPMENT CAN BE INSTALLED IN THE SPACE ALLOTTED INCLUDING FINISHED SUSPENDED CEILINGS AND OTHER SPACES, CHASES, ETC. WITHIN THE BUILDING. MAKE MODIFICATIONS THERETO AS REQUIRED AND APPROVED.
5. TRANSMIT TO OTHER TRADES ALL INFORMATION REQUIRED FOR WORK TO BE PROVIDED UNDER THEIR RESPECTIVE SECTIONS IN AMPLE TIME FOR INSTALLATION.
6. WHEREVER WORK INTERCONNECTS WITH WORK OF OTHER TRADES, COORDINATE WITH THOSE TRADES TO ENSURE THAT ALL SUBCONTRACTORS HAVE THE INFORMATION NECESSARY SO THAT THEY MAY PROPERLY INSTALL ALL CONNECTIONS AND EQUIPMENT. IDENTIFY ALL ITEMS OF WORK THAT REQUIRE ACCESS SO THAT THE CEILING TRADE WILL KNOW WHERE TO INSTALL ACCESS DOORS AND PANELS.
7. COORDINATE, PROJECT AND SCHEDULE WORK WITH OTHER TRADES IN ACCORDANCE WITH THE CONSTRUCTION SEQUENCE.
8. DRAWINGS SHOW THE GENERAL RUNS OF CONDUITS, PIPING AND DUCTWORK, AND APPROXIMATE LOCATION OF OUTLETS. ANY SIGNIFICANT CHANGES IN LOCATION OF ITEMS NECESSARY IN ORDER TO MEET FIELD CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER AND RECEIVE HIS APPROVAL BEFORE SUCH ALTERATIONS ARE MADE. ALL SUCH MODIFICATIONS CLEARANCES AND HEADROOM.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND REPAIR OF SURFACES, AREAS AND PROPERTY THAT MAY BE DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES.
10. ADJUST LOCATION OF PIPING, DUCTWORK, ETC. TO PREVENT INTERFERENCE, BOTH ANTICIPATED AND UNANTICIPATED. DETERMINE THE EXACT ROUTE AND LOCATION OF EACH ITEM PRIOR TO FABRICATION. MAKE OFFSETS, TRANSITIONS AND CHANGES IN DIRECTION IN SYSTEMS AS REQUIRED TO MAINTAIN ADEQUATE CLEARANCES AND HEADROOM.
11. WHEREVER THE WORK IS OF SUFFICIENT COMPLEXITY, PREPARE ADDITIONAL COORDINATION DRAWINGS AND ORGANIZE ON-SITE MEETINGS WITH ALL RELATED SUBCONTRACTORS TO COORDINATE THE WORK BETWEEN TRADES. DRAWINGS SHALL CLEARLY SHOW THE WORK AND ITS RELATION TO THE WORK OF OTHER TRADES, AND BE SUBMITTED FOR REVIEW PRIOR TO COMMENCING SHOP FABRICATION OR ERECTION IN THE FIELD.
12. COORDINATE WITH LOCAL UTILITY PROVIDERS FOR THEIR REQUIREMENTS FOR SERVICE CONNECTIONS AND PROVIDE ALL NECESSARY PAYMENTS, MATERIALS, LABOR AND TESTING TO ACCOMPLISH THE WORK.
13. COORDINATE THE MOUNTING OF SUSPENDED LIGHT FIXTURES UTILIZING INDIRECT LIGHT SO THAT CONDUIT, DUCTWORK, STRUCTURAL MEMBERS, ETC. ARE NOT LOCATED DIRECTLY ABOVE THE LIGHT FIXTURE. MAINTAIN A MINIMUM OF 24" CLEARANCE FROM THESE ITEMS WHENEVER POSSIBLE.

DEMOLITION NOTES

1. ALL WORK SHOWN DARK AND DASHED IS TO BE DEMOLISHED. WORK SHOWN LIGHT IS EXISTING TO REMAIN.
2. REFER TO ARCHITECTURAL PLANS FOR FURTHER EXTENT OF DEMOLITION REQUIREMENTS.
3. ALL EXISTING PIPING SCHEDULED FOR DEMOLITION THAT ROUTES BELOW SLAB SHALL BE GROUND FLUSH WITH FLOOR, PLUGGED AND THE FLOOR PATCHED TO MATCH SURROUNDING FLOOR.
4. COORDINATE ALL DEMOLITION WORK WITH OWNER.
5. CONTACT UTILITY LOCATING SERVICE TO LOCATE EXACT LOCATION OF UTILITIES BELOW GRADE.
6. MAINTAIN ALL EXISTING DEVICES, EQUIPMENT, ASSOCIATED CIRCUITS ETC. SHOWN AS EXISTING TO REMAIN OR OTHERWISE UNRELATED TO THE SCOPE OF THE PROJECT IN WORKING ORDER, WHERE REMOVAL OF EXISTING WIRING, INTERURPTS ELECTRICAL CONTINUITY OR CIRCUITS WHICH ARE TO REMAIN IN USE, FURNISH AND INSTALL ALL REQUIRED WIRE, CONDUIT, JUNCTION BOXES, ETC. TO ENSURE CONTINUED ELECTRICAL CONTINUITY.
7. CONTRACTOR SHALL REMOVE LAY-IN CEILINGS, LIGHT FIXTURES, ETC. AS REQUIRED FOR CONSTRUCTION WHERE NEEDED PRIOR TO DEMOLITION AND REPLACE SAME AFTER CONSTRUCTION. EXISTING CONDUITS ABOVE CEILINGS SHALL BE RELOCATED AND/OR TEMPORARILY REMOVED TO FACILITATE THE INSTALLATION OF NEW EQUIPMENT.
8. THE OWNER SHALL REMOVE ALL ITEMS THEY DESIRED TO SALVAGE PRIOR TO CONSTRUCTION BEGINNING.
9. NOTES AND DRAWINGS ARE BASED UPON A FIELD EXAMINATION OF THE SITE AND MAY NOT INDICATE ALL ITEMS. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE SITE AND THE SCOPE OF WORK FOR THE CONTRACT PRIOR TO BID. ANY EXISTING CONDITION WHICH IS APPARENT OR COULD BE REASONABLY INFERRED FROM A VISIT TO THE SITE SHALL NOT BE THE BASIS FOR A CHANGE IN THE CONTRACT AMOUNT.
10. REFER TO NEW WORK PLANS FOR ANY ITEMS THAT MAY REQUIRE RELOCATION AFTER DEMOLITION.
11. PROPERLY DISPOSE OF ALL DEMOLISHED ITEMS OFF SITE.
12. REMOVE ALL MISCELLANEOUS CONDUITS, PIPES, ETC. THOUGH NOT SPECIFICALLY SHOWN ON PLAN, THAT ARE EITHER UNUSED OR WILL BECOME UNUSED DUE DEMOLITION ACTIVITIES, IN ORDER TO PROVIDE A "CLEAN" SPACE FOR THE OWNER.
13. PROTECT ALL EXISTING SURFACES AND EQUIPMENT DURING CONSTRUCTION. EXISTING ITEMS TO REMAIN SHALL BE ADEQUATELY PROTECTED FROM DEMOLITION AND NEW CONSTRUCTION WORK, AS REQUIRED. ANY ITEMS DAMAGED OR MARRED SHALL BE ADEQUATELY CLEANED OR REPLACED TO THE OWNERS SATISFACTION TO ORIGINAL CONDITION BEFORE CONSTRUCTION.
14. PATCH ANY HOLES IN STRUCTURE CREATED BY REMOVAL OF DUCTWORK, CONDUITS, PIPES, ETC.
15. REMOVE ALL ITEMS SHOWN IN WALLS TO BE DEMOLISHED. ALL ELECTRICAL CONDUIT AND WIRING SHALL BE REMOVED BACK TO PANELBOARDS AND PROPERLY TERMINATED.
16. SAW CUT FLOOR FOR THE INSTALLATION OF NEW SANITARY PIPING. REFER TO PLUMBING PLANS SHOWING NEW WORK.
17. SAVE, CLEAN, AND RE-LAMP ALL LIGHT FIXTURES NOTED AS BEING RELOCATED. REFER TO NEW WORK PLANS AND LIGHT FIXTURE SCHEDULE FOR DESCRIPTIONS, QUANTITIES, AND LOCATIONS OF FIXTURES TO BE RE-USED.

SHEET INDEX

MEP0.0	MEP COVER SHEET
MEP1.0	MEP DEMOLITION PLAN
M1.0	MECHANICAL PLAN AND SCHEDULES
E1.0	ELECTRICAL PLANS
E2.0	ELECTRICAL SCHEDULES AND DETAILS

GENERAL ELECTRICAL NOTES

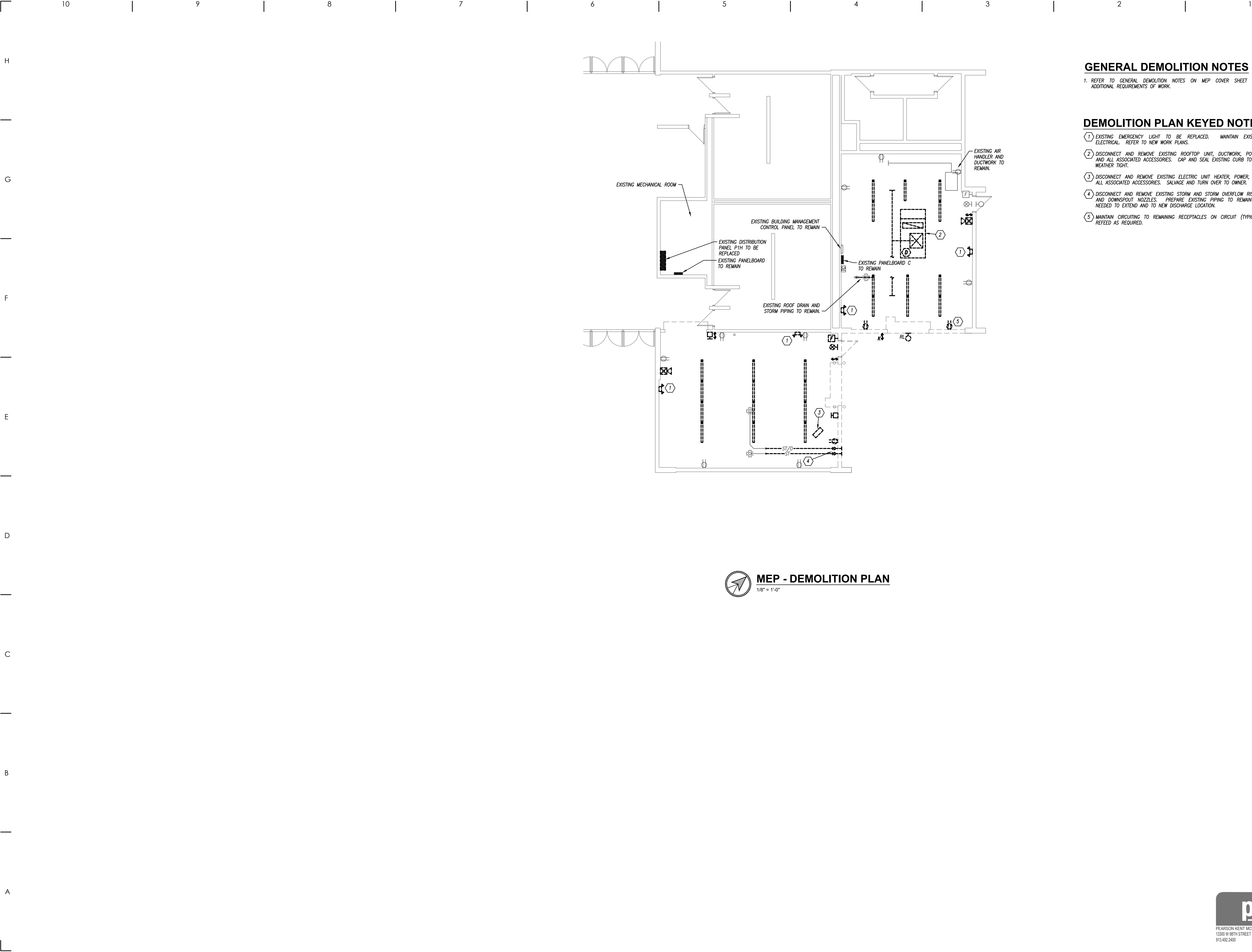
1. COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE AHJ.
2. COORDINATE LOCATIONS OF RECEPTACLES, SWITCHES, ETC. WITH ARCHITECTURAL CASEWORK AND ELEVATIONS.
3. REFER TO MOUNTING HEIGHTS DETAIL FOR MOUNTING HEIGHTS OF ALL DEVICES NOT INDICATED OTHERWISE.
4. PROVIDE ALL EMPTY CONDUITS WITH PULL STRINGS AND BUSHED ENDS.
5. CONTRACTOR SHALL CONCEAL ALL CONDUIT, FITTINGS, AND DEVICES FROM VIEW WHERE REASONABLY POSSIBLE.
- 5.2. REFER TO SPECIFICATIONS FOR ALLOWABLE WIRING METHODS THROUGHOUT PROJECT.
- 5.3. ALL EXPOSED WIRING SHALL BE IN EMT OR METALLIC CONDUIT, EXCEPT AS PERMITTED BY SPECIFICATIONS FOR WHIPS TO EQUIPMENT.
6. ALL CONDUCTOR SIZES INDICATED ON DRAWINGS ARE FOR COPPER CONDUCTORS UNLESS SPECIFICALLY NOTED OTHERWISE. ALUMINUM CONDUCTORS MAY BE USED ONLY UNDER THE FOLLOWING CONDITIONS:
 - 6.1. CONTRACTOR SHALL INCLUDE A DEDUCT ALTERNATE FOR USE OF SAME WITH BUS, FOR OWNER ACCEPTANCE.
 - 6.2. ALL CONDUCTORS MAY ONLY BE USED ON FEEDERS 100A OR GREATER - NO EXCEPTIONS.
 - 6.3. ALUMINUM CABLEING SHALL BE COMPACTED ALUMINUM (STABLY).
 - 6.4. PROVIDE COMPRESSION-TYPE ONE-HOLE OR TWO-HOLE LUG TERMINATIONS.
 - 6.5. PROVIDE ANTI-OXIDANT COMPOUND AT TERMINATIONS.
 - 6.6. CABLE TERMINATIONS SHALL BE MARKED "AL/CU".
 - 6.7. FINAL SIZES OF CONDUCTORS TO BE CONFIRMED BY ENGINEER.
 - 6.8. ALUMINUM SERVICE CONDUCTORS MUST HAVE "AA-800" SERIES LABELING ON CABLE JACKETS PER EVERY REQUIREMENTS - NO EXCEPTIONS.
- ENGINEER RESERVES FINAL RIGHT TO ACCEPT/DENY USE OF ALUMINUM CONDUCTORS FOR PART OR ALL OF PROJECT.

GENERAL NOTES

1. SOME ROOM NAMES MAY NOT BE SHOWN FOR PURPOSE OF CLARIFYING PLAN. REFER TO ARCHITECTURAL PLANS FOR REFERENCE TO ROOM NAMES NOT SHOWN.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN AND KEEP AT THE JOB SITE, AN UP TO DATE SET OF "RECORD DRAWINGS" SHOWING ALL CHANGES FROM THE ORIGINAL PLANS. THE CONTRACTOR SHALL DELIVER THE "RECORD DRAWINGS" TO THE ENGINEER AT THE CONCLUSION OF THE PROJECT ELECTRONICALLY.
3. THESE DRAWINGS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS (NEW AND EXISTING), DIMENSIONS, AND CLEARANCES PRIOR TO THE COMMENCEMENT OF WORK AND SHALL INCLUDE ALL COSTS, EQUIPMENT, MATERIAL, ACCESSORIES, ETC. REQUIRED FOR A FULLY COMPLETE, FUNCTIONAL AND CODE COMPLIANT INSTALLATION.
4. FINAL LOCATIONS OF ALL DEVICES, LIGHT FIXTURES, EQUIPMENT ETC. SHALL BE INDICATED ON THE ARCHITECTURAL DRAWINGS. ALL DIMENSIONAL INFORMATION SHALL BE OBTAINED FROM ARCHITECTURAL PLANS. NO DIMENSIONAL INFORMATION SHALL BE OBTAINED FROM MEP DRAWINGS.
5. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, APPROVALS, LICENSES, ETC. AS NEEDED FOR THE COMPLETE INSTALLATION AND PROJECT. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR ALL FEES AND DATA NEEDED FOR THIS.

GEN. RENOVATION NOTES

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GENERAL DEMOLITION NOTES

1. REFER TO GENERAL DEMOLITION NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.

DEMOLITION PLAN KEYED NOTES

1. EXISTING EMERGENCY LIGHT TO BE REPLACED. MAINTAIN EXISTING ELECTRICAL. REFER TO NEW WORK PLANS.
2. DISCONNECT AND REMOVE EXISTING ROOFTOP UNIT, DUCTWORK, POWER, AND ALL ASSOCIATED ACCESSORIES. CAP AND SEAL EXISTING CURB TO BE WEATHER TIGHT.
3. DISCONNECT AND REMOVE EXISTING ELECTRIC UNIT HEATER, POWER, AND ALL ASSOCIATED ACCESSORIES. SALVAGE AND TURN OVER TO OWNER.
4. DISCONNECT AND REMOVE EXISTING STORM AND STORM OVERFLOW RISERS AND DOWNSPOUT NOZZLES. PREPARE EXISTING PIPING TO REMAIN AS NEEDED TO EXTEND AND TO NEW DISCHARGE LOCATION.
5. MAINTAIN CIRCUITING TO REMAINING RECEPTACLES ON CIRCUIT (TYPICAL). REFEE AS REQUIRED.



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MEP Engineer
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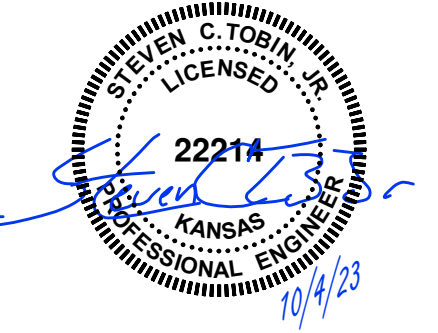
JOB NUMBER 22060A

KCKCC FIELD HOUSE ADDITION

7250 STATE AVE.
KANSAS CITY, KS 66112

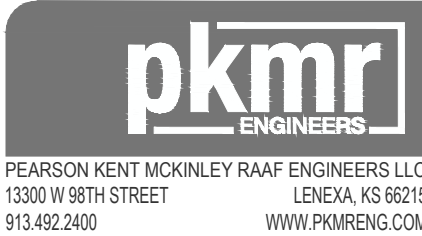
KCKCC

110 Armour Road North Kansas City, Missouri 64116 Tel: 816.300.4101 Fax: 816.300.4102



CONSTRUCTION DOCUMENTS		
ISSUE DATE	10 / 04 / 23	
No	Description	Date

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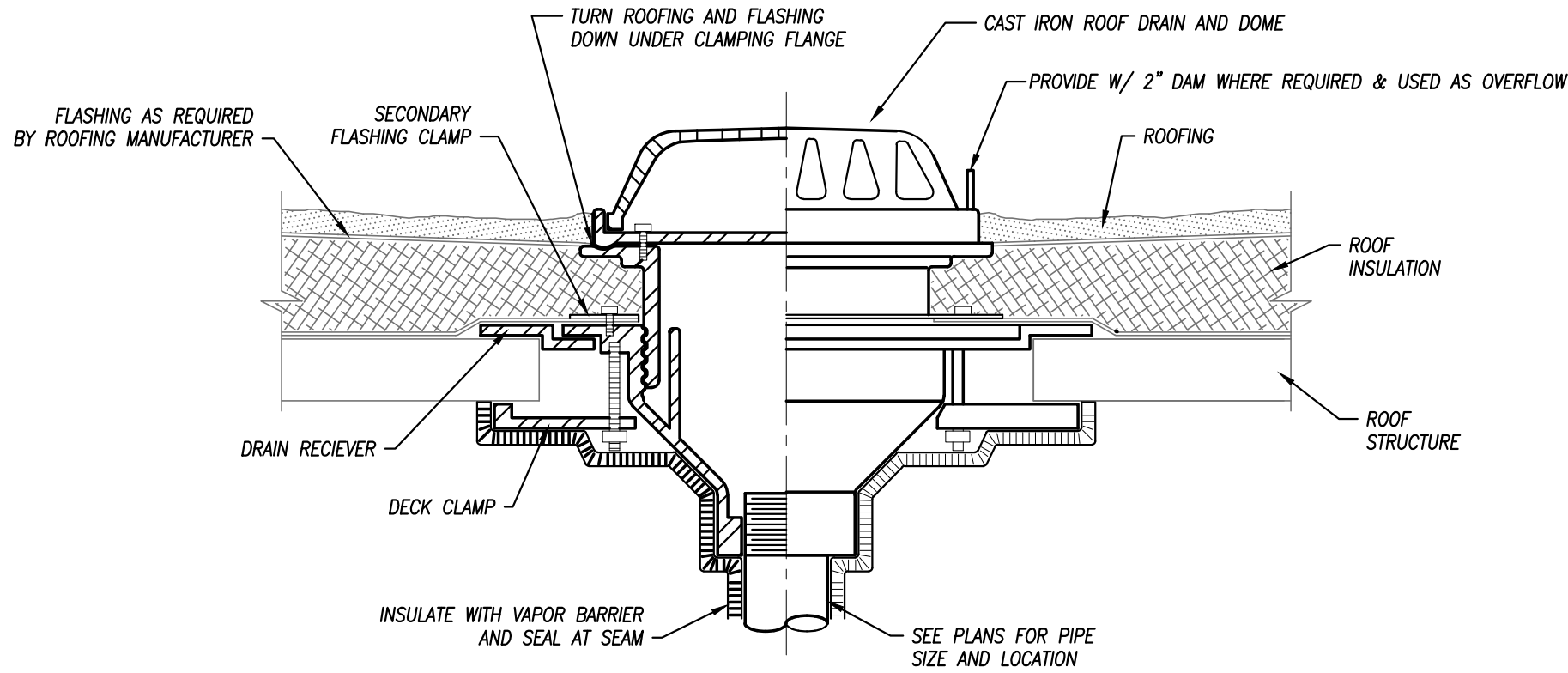


MEP
DEMOLITION
PLAN

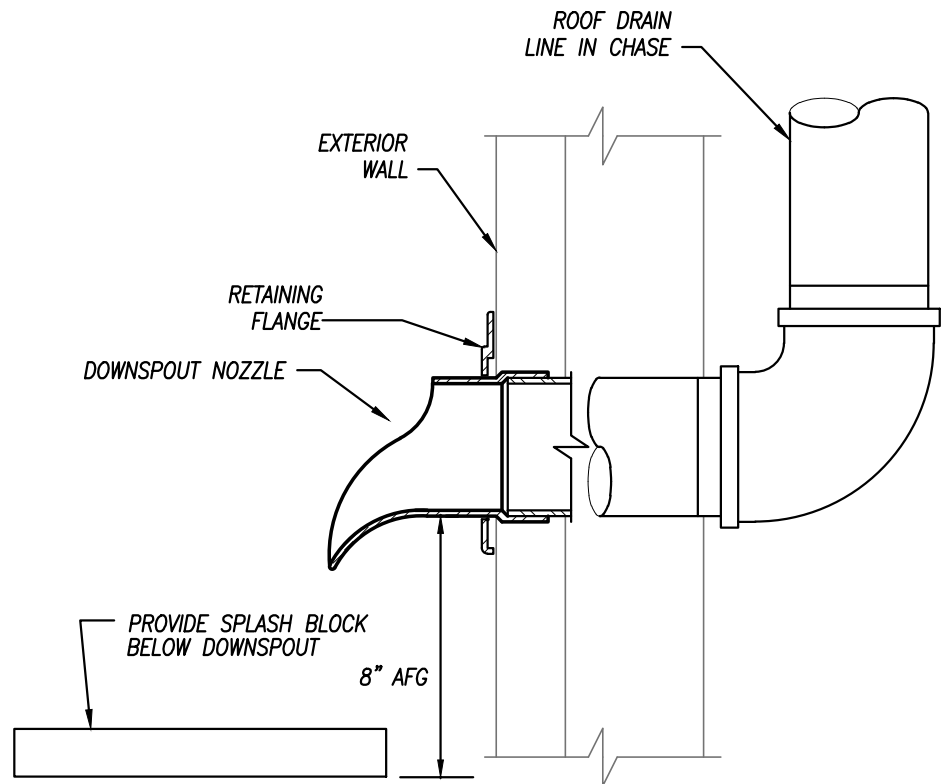
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ROOF DRAIN DETAIL
NOT TO SCALE



DOWNSPOUT NOZZLE DETAIL
NOT TO SCALE

FAN SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	TYPE	ELECTRICAL	CONTROL	REMARKS
CF-1	DAYTON	2RDZ8	OSCILLATING WALL MOUNT	120V / 1PH	SWITCH	1
CF-2	DAYTON	2RDZ8	OSCILLATING WALL MOUNT	120V / 1PH	SWITCH	1
CF-3	DAYTON	2RDZ8	OSCILLATING WALL MOUNT	120V / 1PH	SWITCH	1

REMARKS:

1. PROVIDE WITH ALL MOUNTING BRACKETS AND EQUIPMENT AS REQUIRED.

GRILLE, REGISTER & DIFFUSER SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	MATERIAL	STYLE	DESCRIPTION	MOUNT TYPE	FACE SIZE (IN)	NECK SIZE (IN)	VOLUME DAMPER	FINISH COLOR	NOTES
S1	TITUS	300RS	STEEL	DUCT	DOUBLE DEFLECTION 3/4" SPACING AEROBLADE	FLANGE	DUCT + FRAME	AS INDICATED		WHITE	1,2,3,4

NOTES:

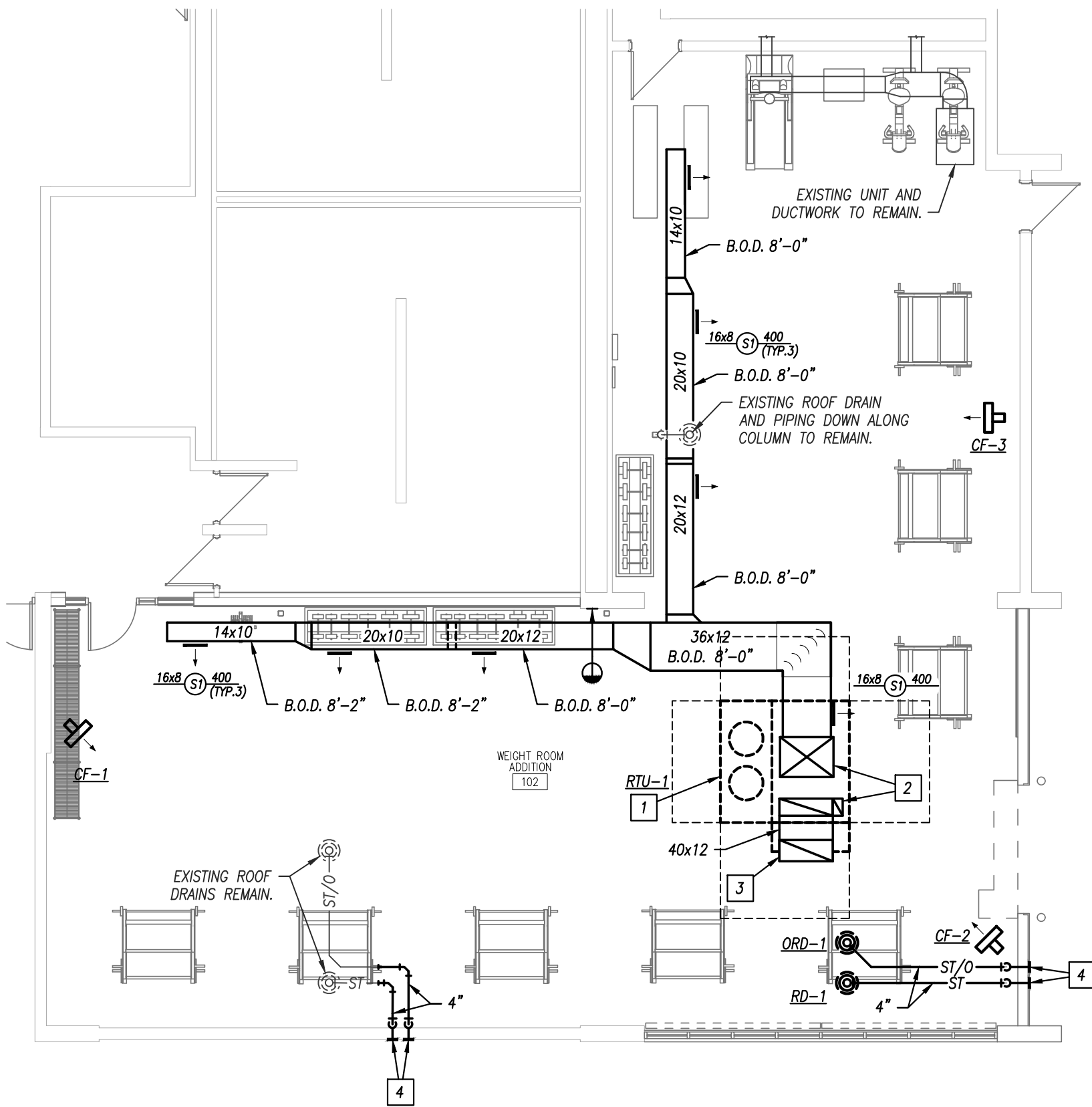
1. PROVIDE ALL DIFFUSERS, REGISTERS, AND GRILLES WITH ALL NECESSARY MOUNTING HARDWARE. PROVIDE WITHOUT SCREWHOLES WHEN INSTALLED IN LAY-IN CEILINGS.
2. VERIFY CEILING CONFIGURATION, COLOR AND SPECIFICS WITH ARCHITECTURAL CEILING PLANS.
3. PROVIDE ROUND NECK ADAPTER WHERE SHOWN WITH ROUND CONNECTION.
4. COORDINATE FINISH WITH ARCHITECT. PROVIDE GALVANIZED OR MILL FINISH WHERE DUCTWORK IS NOT TO BE PAINTED. PROVIDE PRIMED PAINTABLE FINISH WHEN DUCTWORK IS TO BE PAINTED.

FLOOR / ROOF DRAIN SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	SERVICE	TOP/GRATE SIZE	WASTE SIZE	REMARKS
RD-1	WADE	3000	ROOF DRAIN	N/A	4"	1
ORD-1	WADE	3000	ROOF DRAIN	N/A	4"	1,2
DN	WADE	---	DOWNSPOUT	N/A	4"	---

REMARKS:

1. PROVIDE CAST IRON DOME.
2. PROVIDE WITH 2" DAM.



FLOOR PLAN - MECHANICAL AND PLUMBING

1/8" = 1'-0"

ROOFTOP UNIT SCHEDULE (HEAT PUMP)

PLAN MARK	MANUFACTURER	MODEL	CFM	O.A. CFM	FAN DATA			COOLING COIL			HEAT PUMP HEATING CAPACITY (MBH)	SUPPLEMENTAL ELECTRIC HEAT (KW)	ELECTRICAL				WEIGHT (LBS)	REMARKS
					E.S.P.	BHP	HP	EAT (DB/WB)	LAT (DB/WB)	T/S CAPACITY			VOLTAGE/PHASE	MCA	MOCP	SCCR (A)		
RTU-1	DAIKIN	DPS	2,800	500	0.50	0.72	4	80 / 66	57 / 55	94.2 / 72.6	36.2	36.0	480V / 3PH	74.3	80	5,000	2,024	1,2,3,4,5

REMARKS:

1. COOLING CAPACITY BASED ON 100° AMBIENT FOR COOLING AND 17° FOR HEATING.
2. FURNISH WITH SINGLE-POINT ELECTRICAL CONNECTION AND INTEGRAL DISCONNECT.
3. PROVIDE WITH FIELD POWERED CONVENIENCE OUTLET.
4. PROVIDE WITH SINGLE ZONE VAV CONTROLS, DUAL ENTHALPY ECONOMIZER, BAROMETRIC RELIEF, HOT GAS REHEAT AND DEHUMIDIFICATION CONTROLS.
5. UNIT TO BE INTEGRATED INTO THE CAMPUS BUILDING AUTOMATION SYSTEM. ALL CONTROLS INTEGRATION WORK TO BE COORDINATED WITH C&C GROUP.

DUCTWORK CONSTRUCTION & INSULATION SCHEDULE

SYSTEM	APPLICATION	CONCEALED / EXPOSED	TYPE	MATERIAL	PRESSURE CLASS (IN. W.G.)	SEAL CLASS	LEAKAGE CLASS	INSULATION AND LINER					
								APPLICATION	TYPE	THICKNESS	DENSITY	JACKET	NOTES
LOW PRESSURE SUPPLY AIR	SUPPLY AIR CONNECTED TO ROOFTOP UNITS	CONCEALED	RECTANGULAR	G-90 SHEET METAL	+2	C	24	LINED	MINERAL FIBER	1/2"	3/4 LB	---	1
			ROUND	G-90 SHEET METAL	+2	C	12	WRAPPED	MINERAL FIBER	1-1/2"	1-1/2 LB	FSK-VB	1
LOW PRESSURE SUPPLY AIR	SUPPLY AIR CONNECTED TO ROOFTOP UNITS	EXPOSED	RECTANGULAR	G-90 SHEET METAL	+2	C	24	LINED	MINERAL FIBER	1/2"	3/4 LB	---	1
			ROUND	G-90 SHEET METAL	+2	C	12	LINED	MINERAL FIBER	1"	---	---	1,2
RETURN AIR	SUPPLY AIR CONNECTED TO ROOFTOP UNITS	EXPOSED	RECTANGULAR	G-90 SHEET METAL	-2	C	24	LINED	MINERAL FIBER	1/2"	3/4 LB	---	1
			ROUND	G-90 SHEET METAL	-2	C	12	WRAPPED	MINERAL FIBER	1-1/2"	1-1/2 LB	FSK-VB	1

NOTES:

1. ALL INSULATION SHALL MEET THE REQUIREMENTS OFASHRAE 90.1. REFER TO SPECIFICATIONS FOR MORE DETAILED INFORMATION.
2. CONTRACTOR OPTION TO USE ROUND DUCT LINER OWENS CORNING QUIETZONE OR EQUAL, OR PROVIDE PERFORATED LINER DOUBLE WALL DUCT.

PIPING MATERIAL & INSULATION SCHEDULE

PIPING SYSTEM	SIZE	TYPE/SCHED	MATERIAL	ACCEPTABLE FITTINGS	FIELD TEST PRESSURE/TIME	ALLOWABLE IN PLENUMS	INSULATION	
							TYPE	THICKNESS
STORM DRAIN ABOVE GRADE	3"-12"	SCH. 40	PVC	SOLVENT JOINED	10 FT ~ 1/2HR	NO	FIBERGLASS W/ ASJ	1/2"
ROOF DRAIN BODY	ALL	----	----	----	----	YES	ELASTOMERIC	1/2"
CONDENSATE DRAIN ON ROOF	3/4"-2"	SCH. 40	PVC	SOLVENT JOINED	10 FT ~ 1/2HR	NO	----	----

NOTES:

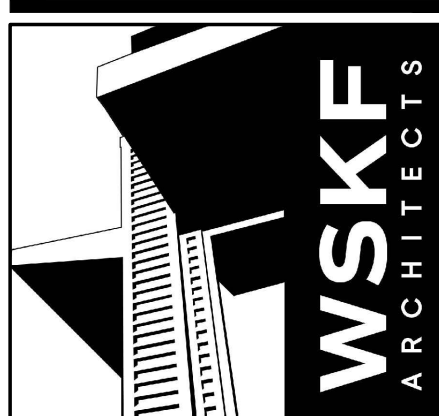
1. ALL PIPING AND MATERIALS IN PLENUMS MUST MEET ASTM E84 FLAME/SMOKE RATING OF 25/50.
2. ALL INSULATION THICKNESSES SHALL MEET ADOPTED IECC AND ASHRAE 90.1 - 2016 REQUIREMENTS AT A MINIMUM.
3. REFER TO SPECIFICATIONS FOR MORE DETAILED INFORMATION.

GENERAL MECHANICAL NOTES

1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. ROUND BRANCH DUCT RUNOUTS AND FLEXIBLE DUCT SHALL BE THE SAME SIZE AS THE DIFFUSER NECK UNLESS NOTED OTHERWISE.
3. MAXIMUM FLEXIBLE DUCT LENGTH SHALL BE 5'-0".
4. ALL AIR DISTRIBUTION DEVICES SHALL HAVE LOCKABLE VOLUME CONTROL DEVICES.
5. ALL 90 DEGREE TURNING ELBOWS SHALL BE SMOOTH ROUND OR SQUARE WITH TURNING VANES.
6. DUCT SIZES SHOWN ON PLANS ARE INSIDE FREE AREA.
7. FOR BALANCING THE OUTSIDE AIRFLOW QUANTITIES, REFER TO HVAC SCHEDULES.

MECHANICAL PLAN KEYED NOTES

- 1 FURNISH AND INSTALL ROOFTOP UNIT.
- 2 TRANSITION SUPPLY AND RETURN DUCTS AS NEEDED TO CONNECT TO ROOFTOP UNIT. BLANK OFF SECTION OF RETURN DUCT AS NEEDED TO PROVIDE RETURN AIR DROP BETWEEN JOISTS.
- 3 TURN RETURN DUCT UP TOWARDS STRUCTURE. PROVIDE 40x16 RETURN AIR OPENING ON TOP OF DUCT.
- 4 ROUTE 4" STORM AND STORM OVERFLOW PIPING DOWN ALONG WALL. PIPING TO DISCHARGE OUTSIDE 8" +/- ABOVE FINISHED GRADE. PROVIDE DOWNSPOUT NOZZLE AND SEAL WEATHER TIGHT. PROVIDE SPLASH BLOCK BELOW EACH DOWNSPOUT.



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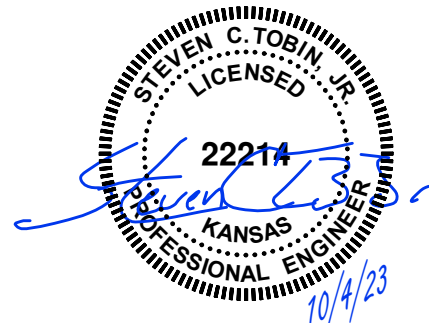
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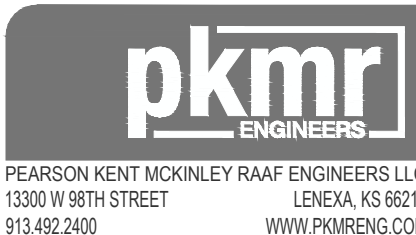
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MECHANICAL PLANS

M1.0



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GENERAL LIGHTING NOTES

1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. LIGHT FIXTURES INDICATED AS EMERGENCY FIXTURES ARE TO FUNCTION AS NIGHT LIGHTS UNLESS SPECIFICALLY SHOWN SWITCHED.
3. ALL CIRCUITING SHOWN ON THIS PLAN IS DIAGRAMMATIC.

3.1. ALL FIXTURES SHALL BE FED FROM JUNCTION BOXES WITH LIGHT FIXTURE WHIPS (<6"). DASTY-CHAINING OF FIXTURES IS NOT ALLOWED.

3.2. SWITCH BOX LOCATIONS SHALL BE WIRED SO THAT A NEUTRAL WIRE IS AVAILABLE AT THE SWITCH BOX LOCATION, EITHER IN THE BOX OR AVAILABLE TO BE ADDED VIA RACEWAY OR AN ACCESSIBLE WALL CAVITY.

3.3. WALL SWITCHES FOR SEPARATE LOAD TYPES (EM/NORMAL, 120/277V, ETC.) SHALL NOT BE IN A SINGLE BOX.

3.4. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

LIGHTING PLAN KEYED NOTES

- ① INTERCEPT EXISTING 120 VOLT, 20 AMP LIGHTING CIRCUIT THIS AREA.
- ② INTERCEPT EXISTING LIGHTING CIRCUIT SERVING BUILDING MOUNTED LIGHT TO BE REMOVED AND RELOCATED.
- ③ RELOCATED BUILDING MOUNTED LIGHT. EXTEND CIRCUIT TO RELOCATED LIGHT.
- ④ REPLACE EXISTING EMERGENCY FIXTURE WITH FIXTURE SCHEDULED. CONNECT TO EXISTING CIRCUIT.
- ⑤ PROVIDE TWO (2) DIMMING SWITCHES THIS LOCATION FOR SEPARATE CONTROL OF EAST HALF OF ROOM AND WEST HALF OF ROOM.
- ⑥ TO DIMMING ROOM CONTROLLER.
- ⑦ REPLACE EXISTING EMERGENCY FIXTURE WITH FIXTURE SCHEDULED. CONNECT TO EXISTING CIRCUIT. INSTALL FIXTURE AT 7'-0" AFF SO FIXTURE IS BELOW DUCTWORK. EXTEND CIRCUIT AS REQUIRED.

DISTRIBUTION PANELBOARD SCHEDULE										
PANEL DESIGNATION		MAIN BUS AMPS: MLO		VOLTAGE: 277/480		MOUNTING: SURFACE				
P1H		MAIN BREAKER AMPS: 400		PHASE/WIRE: 3Ø, 4W		LOCATION: MECHANICAL ROOM				
		SCCR RATING (AIC):		MATCH EXISTING						
CIRCUIT NO.	CIRCUIT DESIGNATION	KVA	CIRCUIT BREAKER			FEEDER				
			POLE	FRAME	TRIP	SETS	# OF WIRES	SIZE	GROUND	CONDUIT
1	RTU-1	0.0	3	100	80	1	3	#3	#8	1-1/4"
2	SPARE	0.0	2	30	20					
3	EXISTING LOAD	0.0	3	30	20					EXISTING - FIELD VERIFY
4	EXISTING LOAD	0.0	3	30	20					EXISTING - FIELD VERIFY
5	EXISTING LOAD	0.0	3	60	50					EXISTING - FIELD VERIFY
6	EXISTING LOAD	0.0	3	60	40					EXISTING - FIELD VERIFY
7	EXISTING LOAD	0.0	3	60	40					EXISTING - FIELD VERIFY
8	EXISTING LOAD	0.0	3	60	40					EXISTING - FIELD VERIFY
9	EXISTING LOAD	0.0	3	60	40					EXISTING - FIELD VERIFY
10	EXISTING LOAD	0.0	3	60	40					EXISTING - FIELD VERIFY
11	EXISTING LOAD	0.0	3	60	40					EXISTING - FIELD VERIFY
12	SPARE	0.0	3	30	30					EXISTING - FIELD VERIFY
13	EXISTING LOAD	0.0	3	30	20					EXISTING - FIELD VERIFY
14	EXISTING LOAD	0.0	3	30	20					EXISTING - FIELD VERIFY
15	EXISTING LOAD	0.0	1	30	15					EXISTING - FIELD VERIFY
16	EXISTING LOAD	0.0	1	30	15					EXISTING - FIELD VERIFY
17	EXISTING LOAD	0.0	1	30	15					EXISTING - FIELD VERIFY
18	EXISTING LOAD	0.0	1	30	15					EXISTING - FIELD VERIFY
19	SPARE	0.0	2	30	20					EXISTING - FIELD VERIFY
20	SPARE	0.0	2	30	20					EXISTING - FIELD VERIFY

REMARKS:
1. EXATON POW-R-LINE 4X PANELBOARD OR EQUAL.
2. SINGLE SECTION PANEL.
3. PANELBOARD TO REPLACE EXISTING PANEL. FIELD VERIFY INFORMATION ABOVE PRIOR TO SUBMITTING.
4. ARRANGE BREAKERS IN NEW PANEL TO MATCH EXISTING PANELBOARD.
5.

LOW VOLTAGE SCOPE OF WORK

ELECTRICAL CONTRACTOR'S SCOPE OF WORK FOR THE LOW VOLTAGE SYSTEMS SHOWN ON THESE DRAWINGS SHALL BE AS FOLLOWS:

- FURNISH AND INSTALL SYSTEM COMPLETE AND OPERATIONAL:
- 1) FIRE ALARM (DIGITAL ADDRESSABLE TYPE)

(FIRE ALARM DEVICES ARE SHOWN ON THESE DRAWINGS FOR REFERENCE, AND/OR BIDDING PURPOSES ONLY. REFER TO FIRE ALARM SHOP DRAWINGS FOR INSTALLATION AND ADDITIONAL WORK/REQUIREMENTS)
- PROVIDE ROUGH-IN (INCLUDING PATHWAYS) ONLY:*
- 1) TELEPHONE/DATA SYSTEMS. LOCATIONS AND WORK SHOWN ON THESE DRAWINGS ARE CONCEPTUAL IN NATURE AND SHOWN FOR COORDINATION PURPOSES AND ROUGH-IN REQUIREMENTS ONLY.
- 2) SECURITY / ACCESS CONTROL
- 3) HVAC CONTROLS (AS REQUIRED - COORDINATE WITH MECH. CONTRACTOR)

- * GENERAL REMARKS REGARDING ROUGH-IN:
1. NO DETERMINATION OF CABLING TYPES AND/OR REQUIREMENTS (I.E., PHONE, DATA, ETC.) SHALL BE BASED SOLELY OFF THE SYMBOL TYPES SHOWN ON THESE DRAWINGS.
2. ALL DEVICE LOCATIONS AND TYPES SHALL BE COORDINATED WITH THE OWNER.
3. THE LOW-VOLTAGE INSTALLER SHALL BE RESPONSIBLE FOR DEVELOPING THEIR OWN TELECOMMUNICATIONS PLAN BASED ON THE ABOVE INPUT AND COORDINATION WITH THE OWNER.

3.1. THIS TELECOMMUNICATIONS PLAN SHALL SHOW ALL DEVICE LOCATIONS AND CABLING TO SAME, AND BE USED FOR INSTALLATION OF THESE SYSTEMS.

3.2. IF THE LOW-VOLTAGE INSTALLER DECLINES TO PRODUCE THEIR OWN PLAN, AND ELCTS TO INSTALL THESE SYSTEMS BASED OFF THE LOCATIONS AND/OR DEVICE TYPES SHOWN ON THESE DRAWINGS, PKMR ENGINEERS WILL NOT BE RESPONSIBLE FOR ANY ERRORS IN CABLING INSTALLATION.

PANELBOARD P1H REPLACEMENT:

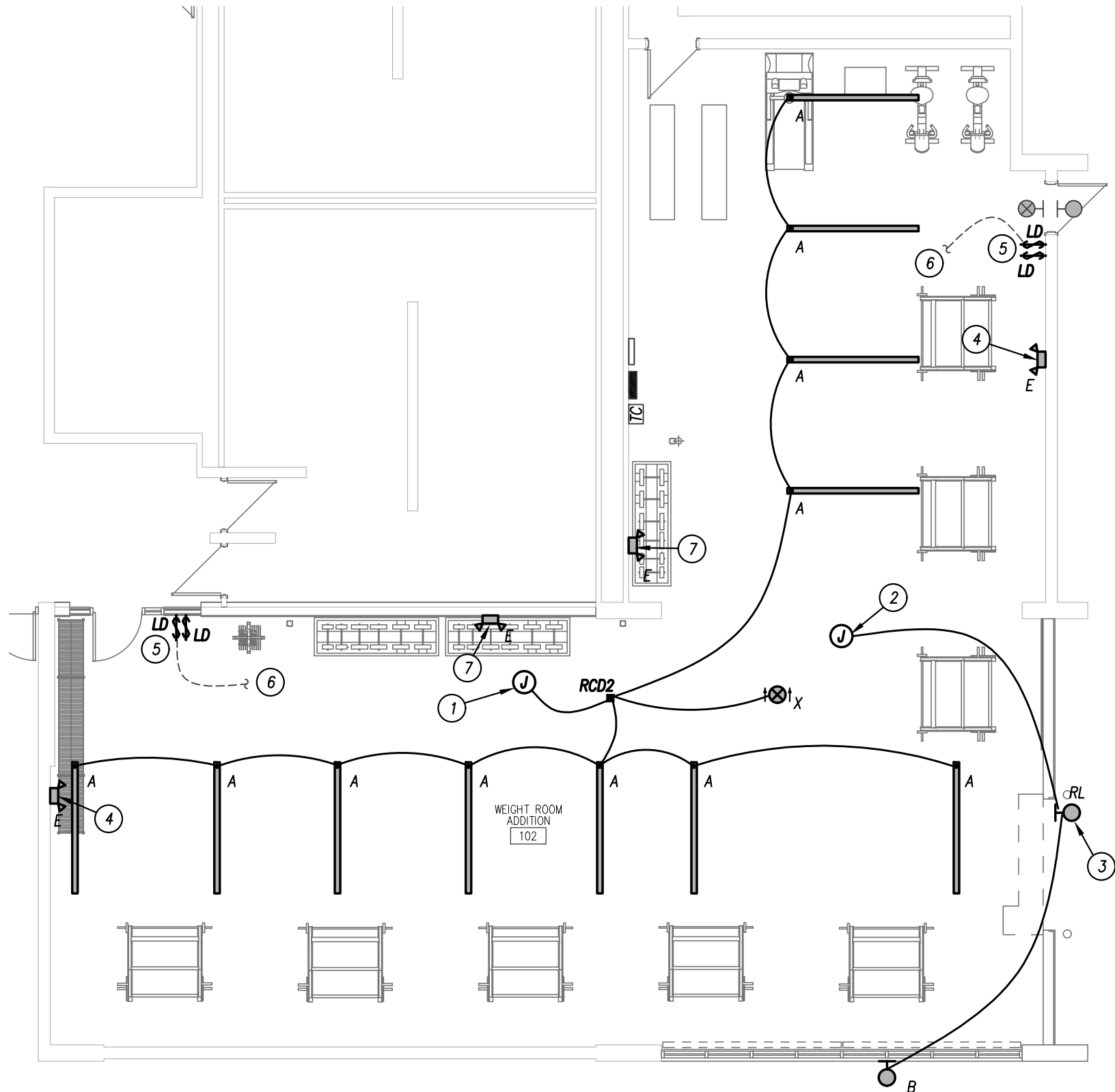
EXISTING DISTRIBUTION PANEL TO BE REPLACED. PROVIDE ALL WORK REQUIRED TO REPLACE THE EXISTING 400 AMP DISTRIBUTION PANEL. REFER TO NEW PANELBOARD SCHEDULE THIS SHEET FOR PANELBOARD INFORMATION. THE EXISTING PANELBOARD IS TO BE REPLACED IN IT'S ENTIRETY. PROVIDE NEW PANELBOARD IN PLACE OF THE EXISTING PANEL. REWORK, MODIFY AND EXTEND EXISTING FEEDERS AND BRANCH CIRCUITS (CONDUITS AND CONDUCTORS) AS REQUIRED TO RE-FEED NEW PANELBOARD AND RE-FEED ALL EXISTING LOADS. ENSURE LOCATION OF NEW PANELBOARD LUGGING TO RE-CONNECT TO THE EXISTING FEEDER. PANELBOARD FAULT CURRENT RATING TO MEET OR EXCEED EXISTING PANELS FAULT CURRENT RATING. VERIFY EXISTING PANELBOARD RATING. VERIFY QUANTITY, SIZE AND TYPE OF EXISTING CIRCUIT BREAKERS. CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING SHOP DRAWINGS FOR APPROVAL AND ORDERING PANEL.

GENERAL POWER NOTES

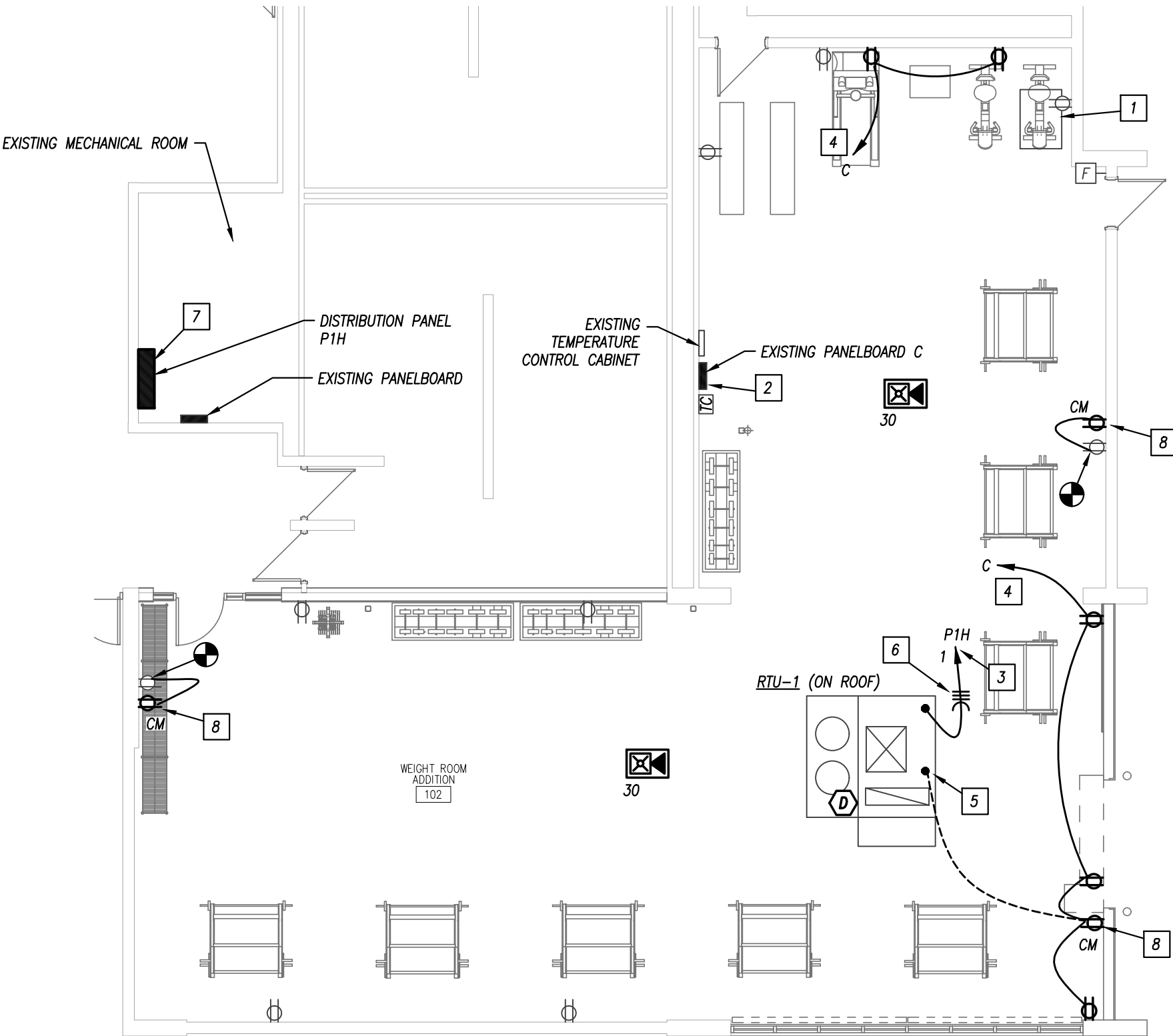
1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. COORDINATE EXACT NEMA CONFIGURATIONS OF RECEPTACLES SERVING EQUIPMENT WITH EXACT EQUIPMENT BEING FURNISHED.
3. REFER TO THE SPECIFICATIONS FOR ADDITIONAL LOCATIONS/REQUIREMENTS FOR RECEPTACLES, INCLUDING GFCI, WEATHER-RESISTANT, HOSPITAL-GRADE, AND TAMPER-RESISTANT RECEPTACLES.
4. EXACT MECHANICAL EQUIPMENT LOCATIONS MAY NOT BE SHOWN FOR CLARITY. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT, DUCT DETECTORS, ETC. WITH MECHANICAL DRAWINGS AND CONTRACTOR.
5. COORDINATE EXACT LOCATIONS OF SMOKE DETECTORS WITH CEILING FANS, HVAC DIFFUSERS, SPRINKLER HEADS, ETC. PER NFPA REQUIREMENTS.

POWER PLAN KEYED NOTES

- ① EXISTING AIR HANDLER TO REMAIN. MAINTAIN POWER TO SAME.
- ② EXISTING PANELBOARD AND CONTROLS TO REMAIN. PROVIDE REVISED TYPED PANELBOARD CIRCUIT DIRECTORY UPON COMPLETION OF WORK. PLACE SPARE BREAKERS IN THE OFF POSITION AND LABEL AS SPARE.
- ③ EXTEND AND CONNECT TO NEW DISTRIBUTION PANEL AS SCHEDULED.
- ④ EXTEND AND CONNECT TO 20 AMP, SINGLE-POLE CIRCUIT BREAKER IN EXISTING PANELBOARD NOTED.
- ⑤ TO RECEPTACLE IN UNIT ON THE ROOF. COORDINATE WITH MECHANICAL CONTRACTOR AND EQUIPMENT SUPPLIER.
- ⑥ INSTALL FEEDER IN BUILDING TIGHT TO STRUCTURE.
- ⑦ NEW DISTRIBUTION PANEL TO REPLACE EXISTING PANEL. REFER TO SCHEDULE AND PANELBOARD REPLACEMENT DESCRIPTION THIS SHEET.
- ⑧ RECEPTACLE FOR CF FAN. INSTALL HIGH ON WALL WITHIN REACH OF FAN CORD AND PLUG.



FLOOR PLAN - LIGHTING
1/8" = 1'-0"



FLOOR PLAN - POWER
1/8" = 1'-0"



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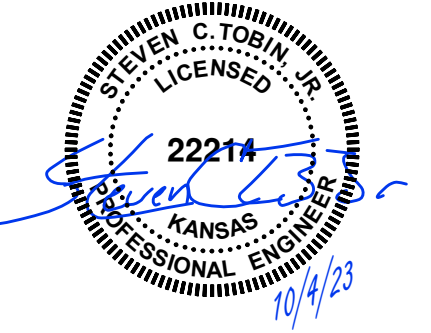
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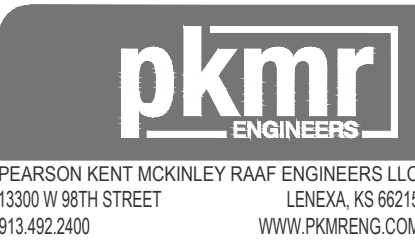


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ELECTRICAL PLANS

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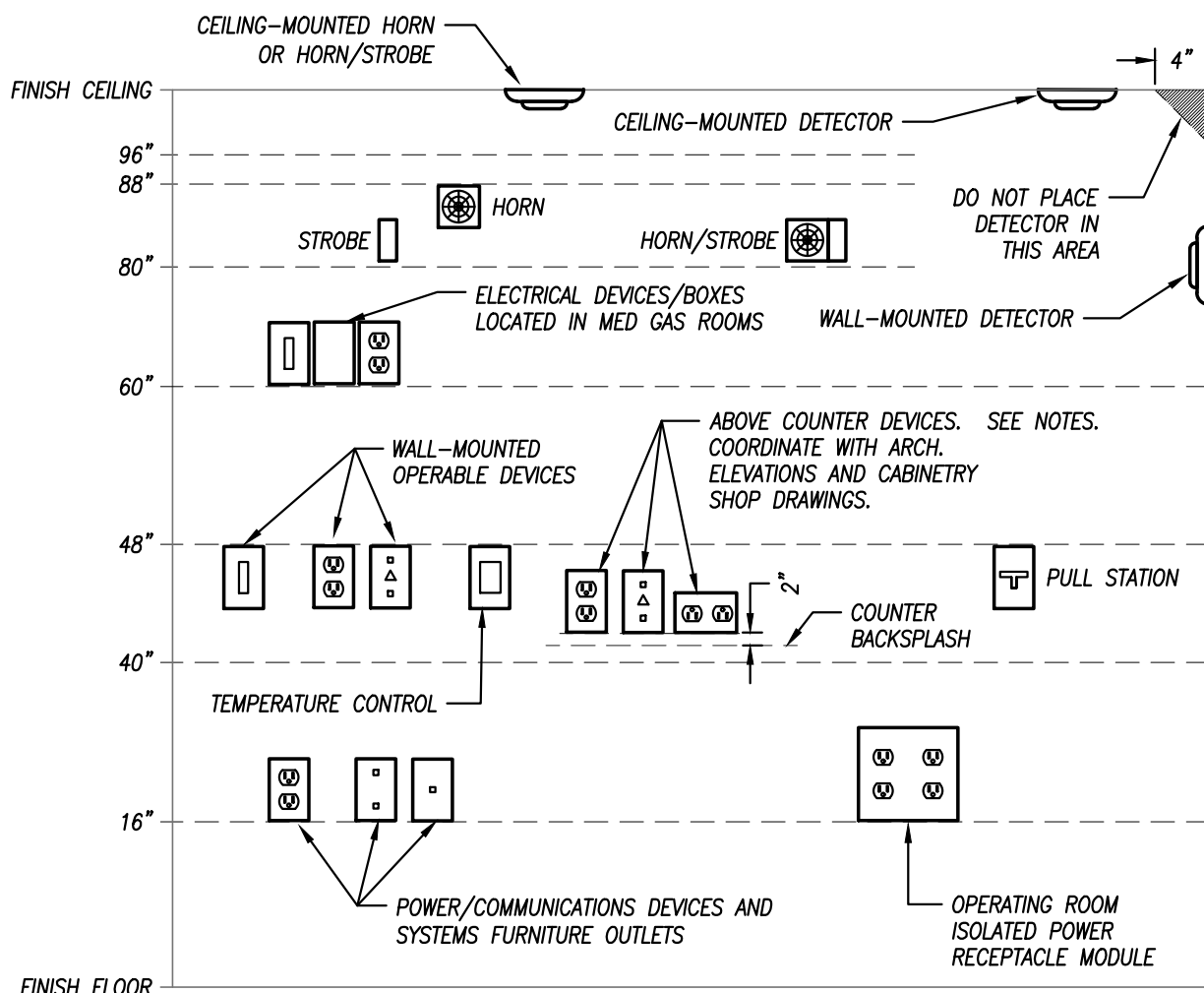
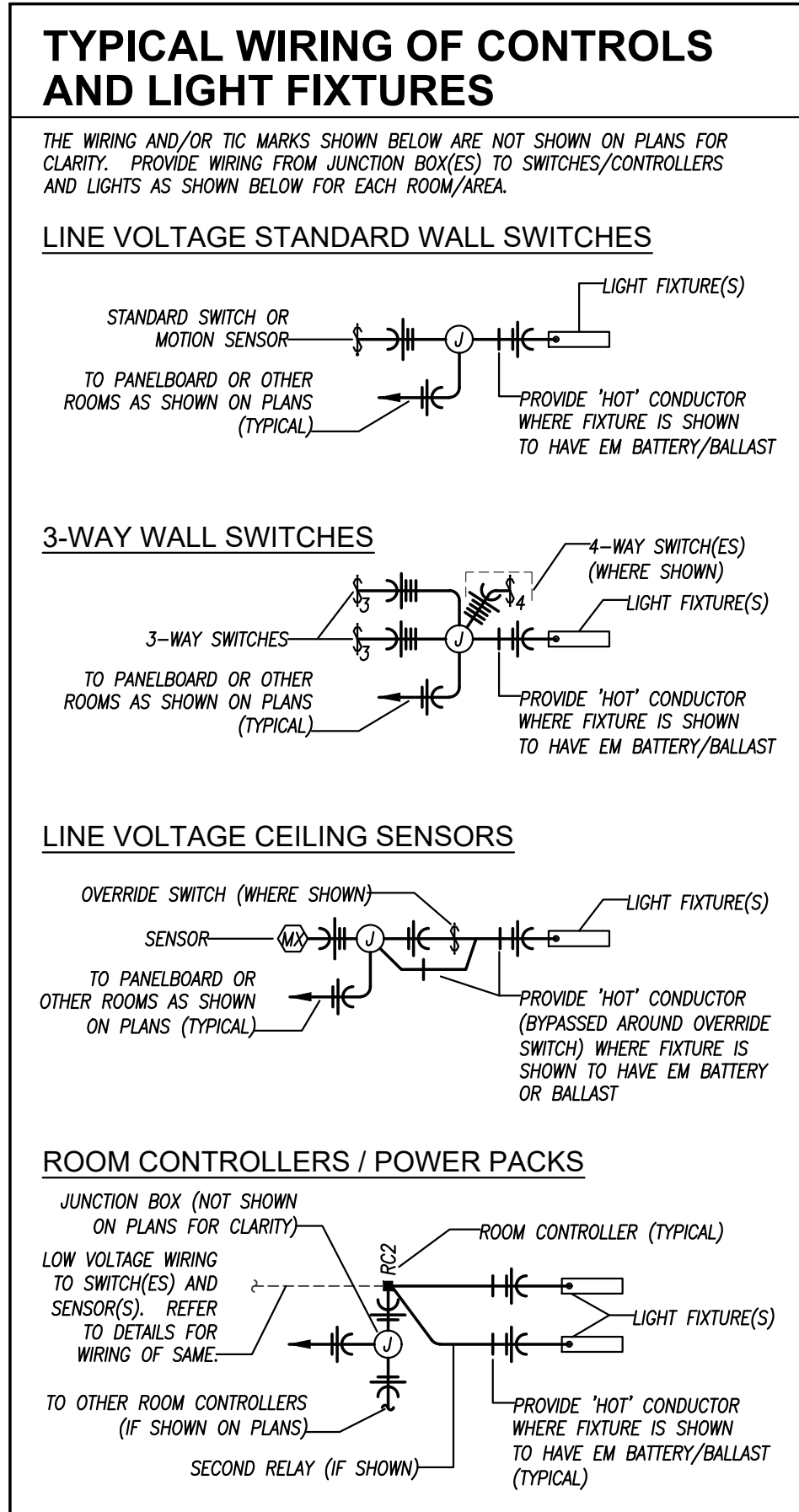
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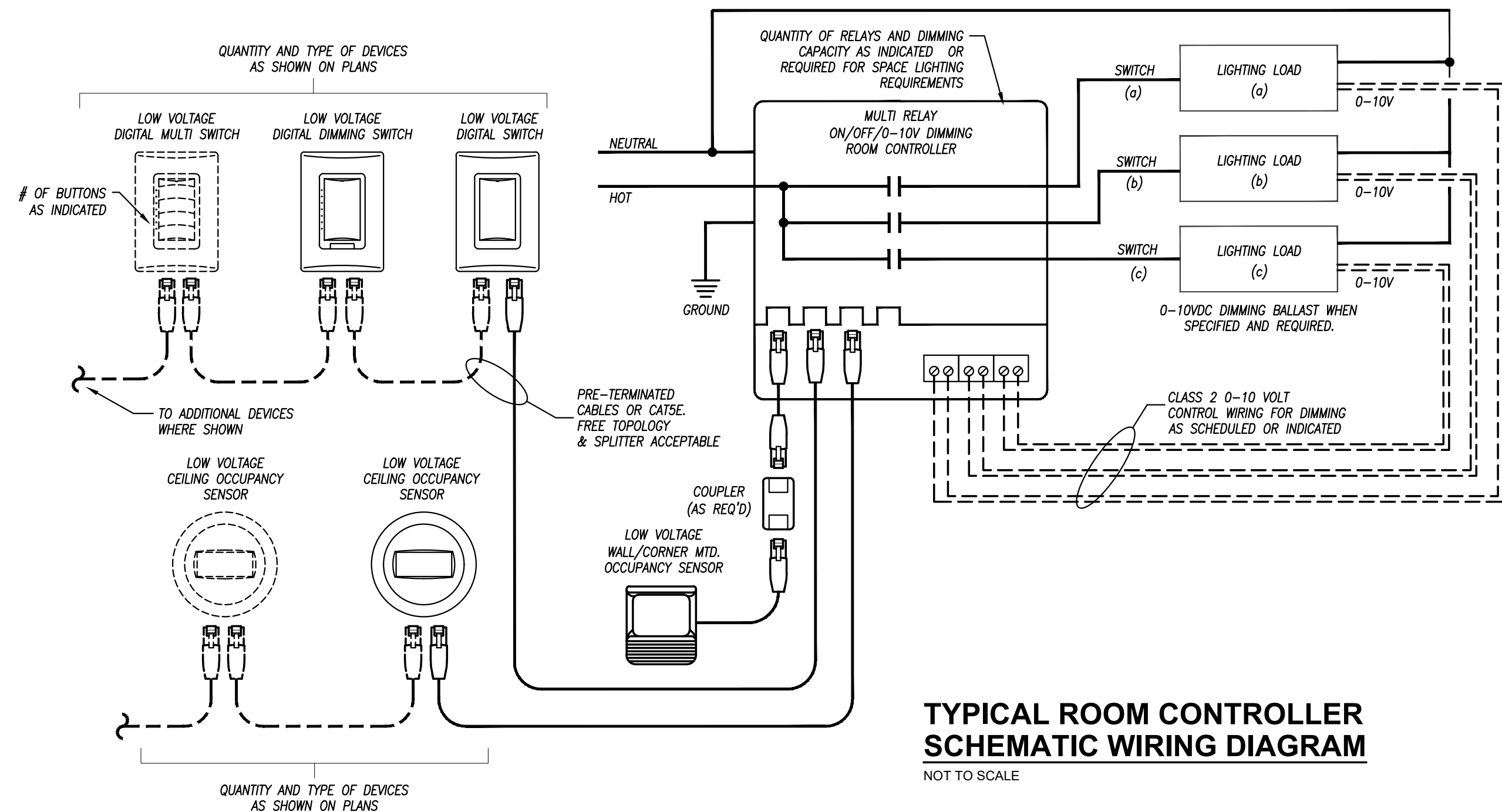
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MOUNTING HEIGHTS FOR WALL-MOUNTED DEVICES
NOT TO SCALE

LIGHTING CONTROLS SYMBOLS/SCHEDULE	
SYMBOLS	
	WALL SWITCH VACANCY SENSOR: PASSIVE INFRARED, 120/277V, WALL SWITCH DECORA STYLE SENSOR. (WATTSTOPPER PW-101, OR EQUAL)
	ROOM CONTROLLER LOW VOLTAGE SWITCHES: PUSHBUTTON SWITCHES WITH LED PILOT LIGHT. SINGLE GANG IN DECORA STYLE FACEPLATE WITH UP TO EIGHT (8) CONTROLS. # REFERS TO QUANTITY OF SWITCHES ON FACE. (WATTSTOPPER LMSV SERIES, OR EQUAL)
	ROOM CONTROLLER LOW VOLTAGE DIMMING SWITCHES: PUSHBUTTON SWITCHES WITH LED INDICATING LIGHTS. SINGLE GANG IN DECORA STYLE FACEPLATE. (WATTSTOPPER LMDM-101)
	DIGITAL CEILING-MOUNTED MOTION SENSOR: DUAL TECHNOLOGY (PASSIVE INFRARED AND ULTRASONIC), DIGITAL, CEILING SENSOR. (WATTSTOPPER LMDC-100, OR EQUAL)
	ROOM CONTROLLER: DIGITAL ON/OFF ROOM CONTROLLER, 120/277V INPUT. # INDICATES NUMBER OF RELAYS (STD 1-2 UNITS SHALL BE GANGED FOR MORE THAN 2 RELAYS/ZONES) (WATTSTOPPER LMRC-100 SERIES, OR EQUAL)
	ROOM CONTROLLER: DIGITAL ON/OFF 0-10V DIMMING ROOM CONTROLLER, 120/277V INPUT. # INDICATES NUMBER OF RELAYS (STD 1-3 UNITS SHALL BE GANGED FOR MORE THAN 3 RELAYS/ZONES) (WATTSTOPPER LMRC-200 SERIES OR EQUAL)
TRAINING AND PROGRAMMING	
OWNER TRAINING: <ul style="list-style-type: none">PROVIDE TRAINING TO OWNER FOR EACH LIGHTING CONTROL SYSTEM UTILIZED, INCLUDING PROGRAMMING FOR SCHEDULING AND OPERATION OF EACH ROOM PER OWNER DIRECTION.	
SENSOR ADJUSTMENTS AND SETTINGS: <ul style="list-style-type: none">SYSTEMS SHALL BE SET/PROGRAMMED TO OPERATE TYPICALLY IN MANUAL ON/AUTO OFF MODE.SET WALL-MOUNTED MOTION SENSOR TO MANUAL ON MODE.SET ROOM CONTROLLERS CONTROLLED BY MOTION SENSORS TO MANUAL ON AND CONTROL WITH WALL SWITCH.PROVIDE FINAL SETTINGS/ADJUSTMENTS PER OWNER'S DIRECTION.	
CONTROLS SEQUENCES	
WALL-MOUNTED LINE VOLTAGE SENSORS: <ul style="list-style-type: none">TURN ON LIGHTS IN ROOM/AREA UPON BUTTON ON SENSOR BEING ACTIVATED BY OCCUPANT.TURN OFF LIGHTS AFTER NO MOTION IS DETECTED AND DELAY EXPIRES.	

LIGHT FIXTURE SCHEDULE											
FIXTURE TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LED MODULE / DRIVER							REMARKS
				ID	WATTS	LUMENS	CRI	CCT	DIMMING	VOLTAGE	
A	WILLIAMS	LLM SERIES	8'-0" LONG, 2'-5/8" WIDE LINEAR PENDANT-MOUNTED FIXTURE. SQUARE ACRYLIC LENS. AIRCRAFT CABLE SUSPENSION - COORDINATE EXACT LENGTH WITH ARCHITECT. MATTE WHITE FINISH.	L68	64	6800	80	4000K	0-10V	277/120	1
B	LUMARK	CROSSTOUR XTOR SERIES	LOW-PROFILE EXTERIOR WALL-MOUNTED FIXTURE. ONE-PIECE, DIE-CAST ALUMINUM HOUSING. IMPACT-RESISTANT, TEMPERED GLASS LENS. FORWARD THROW OPTICS. POWDER COAT FINISH DARK BRONZE - COORDINATE WITH ARCHITECT/BUILDING OWNER. UL LISTED WET LOCATION. FURNISH WITH OPTIONAL PHOTOCELL FOR ON/OFF CONTROL OF LIGHT FIXTURE.	3B-Y	26	2,575	70	3000K	NO	277/120	1
E	DUAL-LITE	EVE SERIES	COMPACT, LOW-PROFILE EXIT SIGN. UV STABLE THERMOPLASTIC HOUSING. WHITE FINISH WITH RED LETTERS. SIDE, TOP, OR WALL MOUNTED IN SINGLE/DOUBLE FACE CONFIGURATION WITH DIRECTIONAL ARROWS AS INDICATED ON PLANS. FURNISH WITH EMERGENCY OPTION FOR MAINTENANCE-FREE NICKEL-METAL-HYDRIDE BATTERY FOR 90 MINUTE OPERATION WITH INTEGRAL TEST SWITCH AND AC-ON LIGHT.	SIX (6) HIGH-OUTPUT LEDS. TOTAL POWER CONSUMPTION = 1.4 WATTS.	-	-	-	-	-	277/120	1
X	DUAL-LITE	EV SERIES	LOW-PROFILE EMERGENCY LIGHTING UNIT. FLAME-RATED, UV-STABLE THERMOPLASTIC HOUSING. TWO (2) SEMI-RECESSED, ADJUSTABLE "EYEBALL" HEADS WITH GLASS LENS. WHITE FINISH. MAINTENANCE-FREE BATTERY FOR 90 MINUTE OPERATION OF LAMPS. INTEGRAL TEST SWITCH AND AC-ON INDICATOR.	TWO (2) 1.1 WATT 1W LED LED.	-	-	-	-	-	277/120	1
REMARKS: 1. FURNISH WITH AND INSTALL ALL NECESSARY HARDWARE AND MOUNTING BRACKETS. 2. FURNISH FIXTURE WITH WIRE GUARD.											
GENERAL NOTES (APPLICABLE TO ALL FIXTURES): 1) EQUALS ARE ACCEPTABLE ON ALL LIGHT FIXTURES UNLESS SPECIFICALLY NOTED OTHERWISE. REFER TO SPECIFICATIONS FOR APPROVED EQUAL FIXTURE MANUFACTURERS. 2) ALL DRIVERS ARE INTEGRAL TO FIXTURE UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS FOR ADDITIONAL FIXTURE/DRIVER/BALLAST REQUIREMENTS. 3) ALL FIXTURES WITH PAINTED METAL PARTS SHALL BE PAINTED AFTER FABRICATION. 4) LUMENS LISTED FOR LED FIXTURES ARE GENERALLY DELIVERED LUMENS UNLESS NOTED OTHERWISE. 5) ALL EXTERIOR LED FIXTURES ARE FULL CUTOFF UNLESS NOTED OTHERWISE.											



GENERAL NOTES:
1. MOUNTING HEIGHTS SHOWN IN THIS DETAIL ARE TYPICAL UNLESS OTHERWISE NOTED ON THE PLANS.
2. SEE ARCHITECTURAL ELEVATIONS FOR SPECIAL CONDITIONS. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS.
3. ALL INSTALLATIONS SHALL COMPLY WITH ADA.

VISUAL FIRE ALARM NOTIFICATION DEVICES (STROBE)
LOCATE DEVICE SO THE BOTTOM OF THE DEVICE IS BETWEEN 80" AND 96" A.F.F. (NFPA) OR 6" BELOW CEILING, WHICHEVER IS LOWER (ADA 2010).

AUDIBLE FIRE ALARM NOTIFICATION DEVICES (HORN)
LOCATE DEVICE SO THAT THE TOP OF UNIT IS NOT MORE THAN 90" A.F.F. AND NOT LESS THAN 6" BELOW CEILING (NFPA)

FIRE ALARM ACTIVATION DEVICES (PULL STATION)
LOCATE FRONT-APPROACH DEVICES SO THAT THE HIGHEST OPERABLE PORTION OF THE DEVICE IS NOT MORE THAN 48" A.F.F. (ADA 2010) AND NOT LESS THAN 42" A.F.F. (NFPA).

POWER/COMMUNICATION DEVICES:
OUTLETS SHALL BE LOCATED AT 16" A.F.F. TO THE BOTTOM OF THE BOX. ABOVE COUNTER DEVICES SHALL BE LOCATED AT 2" ABOVE THE BACKSPASH OF THE COUNTER TO THE BOTTOM OF THE DEVICES. VERIFY WITH ARCHITECTURAL DETAILS.

WALL-MOUNTED OPERABLE DEVICES:
OPERABLE DEVICES SHALL BE LOCATED AT 48" A.F.F. TO THE TOP OF THE OPERABLE PORTION OF THE DEVICE.

WALL-MOUNTED OPERABLE DEVICES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
LIGHT SWITCHES, DIMMERS, CONTROLS, ETC.
PUSH BUTTONS
NURSE/PATIENT CALL DEVICES (INCLUDING THOSE FOR STAFF USE)
OTHER CONTROL OR "CALL" DEVICES



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ELECTRICAL SCHEDULES AND DETAILS
E2.0