

ADDENDUM 3

DATE: November 18, 2016
PROJECT: MSB First Floor Infill LRC 3 & 4
RFP NO: 744-R1705
OWNER: The University of Texas Health Science Center at Houston
TO: Prospective Proposers

This Addendum forms part of and modifies Proposal Documents dated, October 19, 2016, with amendments and additions noted below.

2.1 Submittal Deadline

UTHealth will accept proposals submitted in response to this RFP until 2:00PM, Central Standard Time (CST) on **Monday, December 12, 2016** (the "**Submittal Deadline**").

2.2 UTHealth Contact Person

*University instructs interested parties to restrict all contact and questions regarding this RFP to written communications delivered (i) in accordance with this Section on or before **Wednesday, November 23, 2016 at 5PM CST (Question Deadline)**, or (ii) if questions relate to Historically Underutilized Businesses, in accordance with **Section 2.5** of this RFP.*

University will provide responses as soon as practicable following the Question Deadline. University intends to respond to all timely submitted questions. However, University reserves the right to decline to respond to any question.

2.4 Key Events Schedule

Deadline for Questions/Concerns Wednesday, November 23, 2016 5:00PM CST
(ref. **Section 2.2** of this RFP)

Submittal Deadline Monday, December 12, 2016 at 2:00PM CST
(ref. **Section 2.1** of this RFP)

HSP Submittal Deadline Tuesday, December 13, 2016 at 2:00PM CST
(ref. **Section 2.5** of this RFP)

2.5 Historically Underutilized Businesses

2.5.6 **HUB Subcontracting Plans will be evaluated on Tuesday, December 13, 2016 at 2:00PM CST. An email will be sent to all Respondents indicating those plans that passed and failed. At that time, the bids with a passing HUB Subcontracting Plan will be opened.**

The following questions were submitted before the deadline and the responses are in red:

1. Please confirm that this project is to follow the Harris County Building Construction Prevailing Wage Rates (Quarter 4 of 2016) found at <http://appsqa.harriscountytexas.gov/AE/hcpid/prevailingwage.aspx>
The prevailing wage used for this project can be found in the Special Conditions – Appendix Seven of the RFP documents.
2. Please confirm that a full time superintendent is required for the duration of the project.
Yes.
3. Please confirm that test and balance scope of work will be by the owner.
Yes. TAB by owner.
4. Will temporary partitions be required on the ground level as well as level 1?
We foresee a separating partition being required on the ground floor to separate the occupied area from the construction noise/dust/disruption.
5. Will the work beyond the borders of the project as shown on the drawings be required during after-hours?
New architectural drawings are addressed within this Addendum.
6. Will noisy work be required after hours?
Noisy/dusty/disruptive work is only allowed after hours as indicated in our UGC/SC.
7. For door type A00, is the frame material hollow metal? No specification was provided for hollow metal. Only a aluminum door and frames specification was provided.
Hollow metal, no aluminum frames. Specifications provided within this Addendum – See Section 08 23 13.
8. Will door closers need to be provided, as they are not called for in the drawings? Door closers are called out in the specs as provided for doors UNO.
No door closers.
9. General note D on page DM1.01A states to remove all existing tubing back to the main for any pneumatic terminal units, are there any pneumatic terminal units within out scope of work? If so, where please show on drawing or detail?
No General Note D on DM1.01A. Note 1 on DM1.01A clearly notes to remove dashed existing HVAC.
10. The room finish schedule calls for 2'x4' ACT, the specifications call for 12"x12" ACT and the reflected ceiling plans show 2'x2' ACT. Please clarify the ACT required for this project.
The tile specified within this Addendum.
11. Provide interior elevations or dimensions for glazing that is to receive new horizontal louver blinds.
GC to verify dimensions required.
12. Provide fire-safing insulation specifications.
UL design included within this Addendum.

13. The standard interior floor joint assemblies (Inpro; 316 Series) are not fire rated. If we are to provide a fire rated floor joint assembly, provide more information on the desired assembly. Also, according to the manufacturers' website, the 316 Series is only for joint widths spanning 2"-3". This information conflicts with detail 4/S-200, the only detail found showing an Expansion joint, shows a 1" expansion joint.
There is no expansion joint, detail 4 S-200 to be removed as noted within this Addendum.
14. Please confirm that the only expansion joint assemblies in our scope of work will be 1" assemblies running parallel to the existing storefront systems we will be removing.
There is no gap between existing and new concrete slabs.
15. Provide a revised sheet showing exit signs to be replaced in Alternate #3.
Addressed within this Addendum.
16. Please provide a spec section for the "black-out" window film called out for on detail 16 on A-520.
Existing spandrel glass, note removed
17. Please provide details, 21/A-520, 22/A-520 and 23/A520. They are called out in the partition type schedule but are not shown on sheet A-520.
Wall type removed, will not be rated
18. Please clarify the extent of Alternate #3, what are the boundaries to the replacement of the ceiling tiles at the corridors?
As defined within this Addendum
19. Please provide a new bid form which incorporates Alternates 1, 2, 3 plus an E1 Alternate. **Alternates clarified within this Addendum.**

Alternate #1: **Removed – Add to base**

- a. Drawing note #16 on sheet EL1.01AE, "NEW BASE BID 2 X 4 FLUORESCENT LIGHT FIXTURE, TYPE AS NOTED. PROVIDE ALTERNATE TYPE A LED LIGHT FIXTURES FOR ALTERNATE 1." (Alternate 1 turns a large portion of the new Type A light fixtures to Type A LED light fixtures)

Alternate #2: **Removed – Add to base**

- a. Drawing note #2 on sheet EL1.01AE, "FOR BASE BID EXISTING LIGHTING AND ASSOCIATED LIGHTING CONTROLS AND BRANCH CIRCUIT WIRING IN THIS ROOM TO REMAIN AND BE REUSED. REMOVE AND REINSTALL LIGHT FIXTURES AS REQUIRED TO INSTALL NEW HVAC TERMINAL UNITS AND DUCTWORK. RE: DEL1.01A AND EL1.01 FOR ALTERNATE 2 LIGHT FIXTURE AND LIGHTING CONTROL REPLACEMENT IN THIS ROOM.
- b. Drawing note #3 on sheet EL1.01AE, "FOR BASE BID EXISTING LIGHTING AND ASSOCIATED LIGHTING CONTROLS AND BRANCH CIRCUIT WIRING IN THIS ROOM TO REMAIN AND BE REUSED. RE: DEL1.01A AND EL1.01 FOR ALTERNATE 2 LIGHT FIXTURE AND LIGHTING CONTROL REPLACEMENT IN THIS ROOM.
- c. Drawing note #9 on sheet EL1.01AE, "FOR BASE BID, INSTALL FLUORESCENT LIGHT FIXTURES, TYPE AS NOTED, IN THIS ROOM.

ALTERNATE 2, PROVIDE (2) NEW TYPE A LED LIGHT FIXTURES IN THIS ROOM."

d. Notes like these appear on EL1.01AW, several on DEL1.01A and EL1.01A

Alternate #3: **Removed – Add to base**

a. Drawing note #5, 6 & 7 on sheet EL1.01A, "BASE BID, REMOVE AND REINSTALL EXISTING CEILING MOUNTED LIGHTING FIXTURES IN CORRIDOR AS A REQUIRED TO ALLOW NEW HVAC TERMINAL UNITS AND RELATED DUCTWORK, CONTROL WIRING AND CONTROL POWER TO BE REINSTALLED. ALTERNATE 3, PROVIDE (xx) NEW TYPE A LED LIGHT FIXTURES AND NEW TYPE X1 OR X2 LED EXIT SIGNS TO REPLACE EXISTING EXIT SIGNS IN THIS CORRIDOR. CIRCUIT NEW CORRIDOR LIGHT FIXTURES TO EXISTING NORMAL AND EMERGENCY BRANCH CIRCUITS WHICH SERVED EXISTING LIGHTING FIXTURES WHICH ARE BEING REPLACED. CIRCUIT NEW EXIT SIGNS TO EXISTING EMERGENCY CIRCUITS WHICH SERVED THE EXISTING EXIT SIGNS."

b. Drawing note #7 on sheet DEL1.01A, "BASE BID, REMOVE AND REINSTALL EXISTING CEILING MOUNTED LIGHTING FIXTURES IN CORRIDOR AS REQUIRED TO ALLOW NEW HVAC TERMINAL UNITS AND RELATED DUCTWORK, CONTROL WIRING AND CONTROL POWER TO BE INSTALLED. ALTERNATE 3, REMOVE ALL EXISTING CORRIDOR CEILING/LIGHTING REPLACEMENT. RE: 01/EL1.01A FOR NEW CORRIDOR LIGHTING FIXTURES AND EXIT SIGNS.

c. Drawing note #7 on sheet EP1.01A, "BASE BID, REMOVE AND REINSTALL EXISTING CEILING MOUNTED ELECTRICAL DEVICES IN CORRIDOR AS REQUIRED TO ALLOW NEW HVAC TERMINAL UNITS AND RELATED DUCTWORK, CONTROL WIRING AND CONTROL POWER TO BE INSTALLED. ALTERNATE 3, REMOVE ALL EXISTING CEILING MOUNTED ELECTRICAL DEVICES FOR CORRIDOR CEILING REPLACEMENT AND REINSTALL IN NEW CORRIDOR CEILING.

Another alternate, "E1" found on EL1.0GAW.

20. Please confirm that UTHSC will not allow propane forklifts in this building.

Propane forklifts are not allowed in the building.

21. Please confirm what kind of load the first floor can handle as we will need to bring in equipment to lift the beams into place.

These areas were designed for a uniformly distributed live load of 100 PSF per WPM

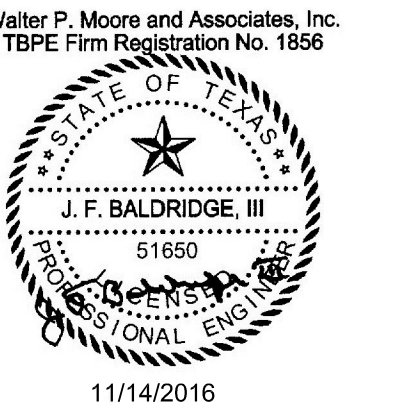
22. On drawing A-161 - Reflected Ceiling Plans Level 1, does not indicate the need for furr downs for the beams that will be installed. Ceiling grid is shown to be installed at 9'. Please confirm that the beams will be below that elevation.

Ceiling will be 8'

23. On drawing A-520 - Partition Types and Interior Construction Details (Detail 18), detail shows ceiling to tie in to top of window with slot diffuser. The top of existing window is below the 9' ceiling height that is called for on the plans. Please advise. **Ceiling heights are now 8' ceilings, furr down will be required. New detail provided within this addendum.**

24. On drawing A-160 - Reflected Ceiling Plans Ground Floor detail 3, states to demo walls 4" above new ceiling. Offices will need to be completely demoed in order to operate crane during steel erection. Please advise.
Offices will be demolished and rebuilt
25. On drawing 2/A110 & 1/A111 - Please advise if fire rated shafts are to be built at the existing concrete columns along column line A (A110) and H (A-111). If so, please update partition type and provide details.
No fire rated shaft walls, fire safing to be installed between floors within existing shafts, detail to be provided in Addendum 3
26. On drawing A-130 – Please advise if blocking will be required for the furniture shown on A-130.
Yes, check with manufacturer before installing
27. On drawing A-540 – Please provide VCT 1 color
Armstrong Imperial Texture 51810 Washed Linen
28. On drawing A-540 – Please confirm the notated door color is correct.
VT Industries Red Oak Veneer/ Alpine AL07
29. On drawing 16/A520 – Please provide specifications for the aluminum sill extension shown.
Included within this Addendum.
30. Please confirm all existing furniture and equipment will be removed and reinstalled by owner.
UTHealth will remove and reinstall all furniture and equipment with the exception of custom millwork.
31. On drawing A-160 & A-161 the reflective ceiling plan show 2 x 2 ceiling tile. On drawing A-540 the schedule has ACT 1 and 2. Please confirm where ACT 1 and 2 are needed on the drawing.
Only ACT 2 (2'x2') is in the project
32. Plans do not indicate any finishes for the offices which are to remain after the interior storefront windows are removed. We assume that the entire office will require repainting, but are any other finishes such as ceiling or floor replacement required? Please clarify.
Yes. A540 indicates the updated finish schedule. Also, there are specific notes on demolition sheets that direct ceiling and flooring replacement required.
33. Submission of Proposals requires a CD-ROM copy of the proposal. In the event of changes to the proposals just before submission, is it acceptable to submit the CD-ROM when the HUB plan is due?
Yes. The CD-ROM may be submitted with the HUB Subcontracting Plan (HSP) on Tuesday, December 13, 2016.

Additional drawings and Section 08 12 13 are below for clarification as noted in many of the questions above.



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E&C Engineers and Consultants
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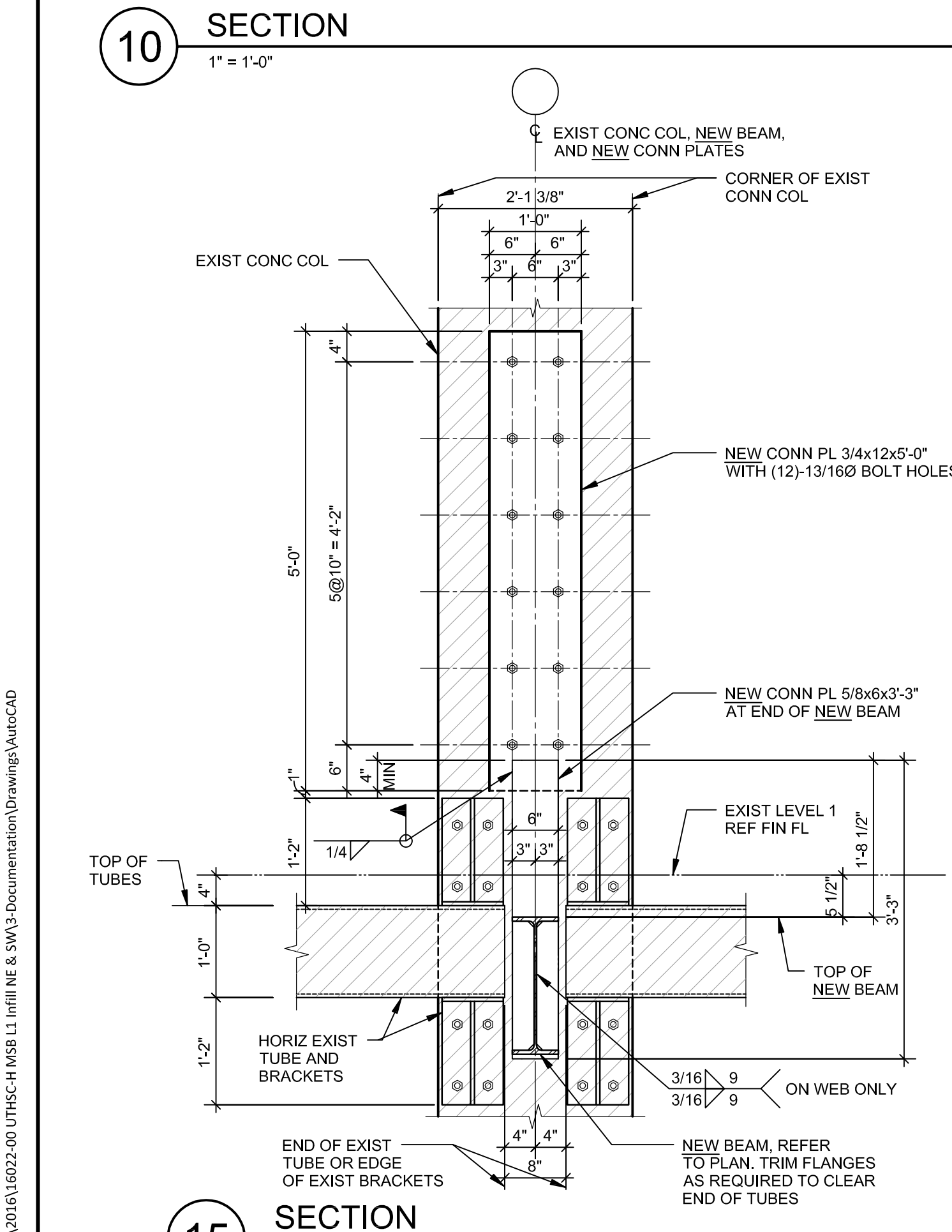
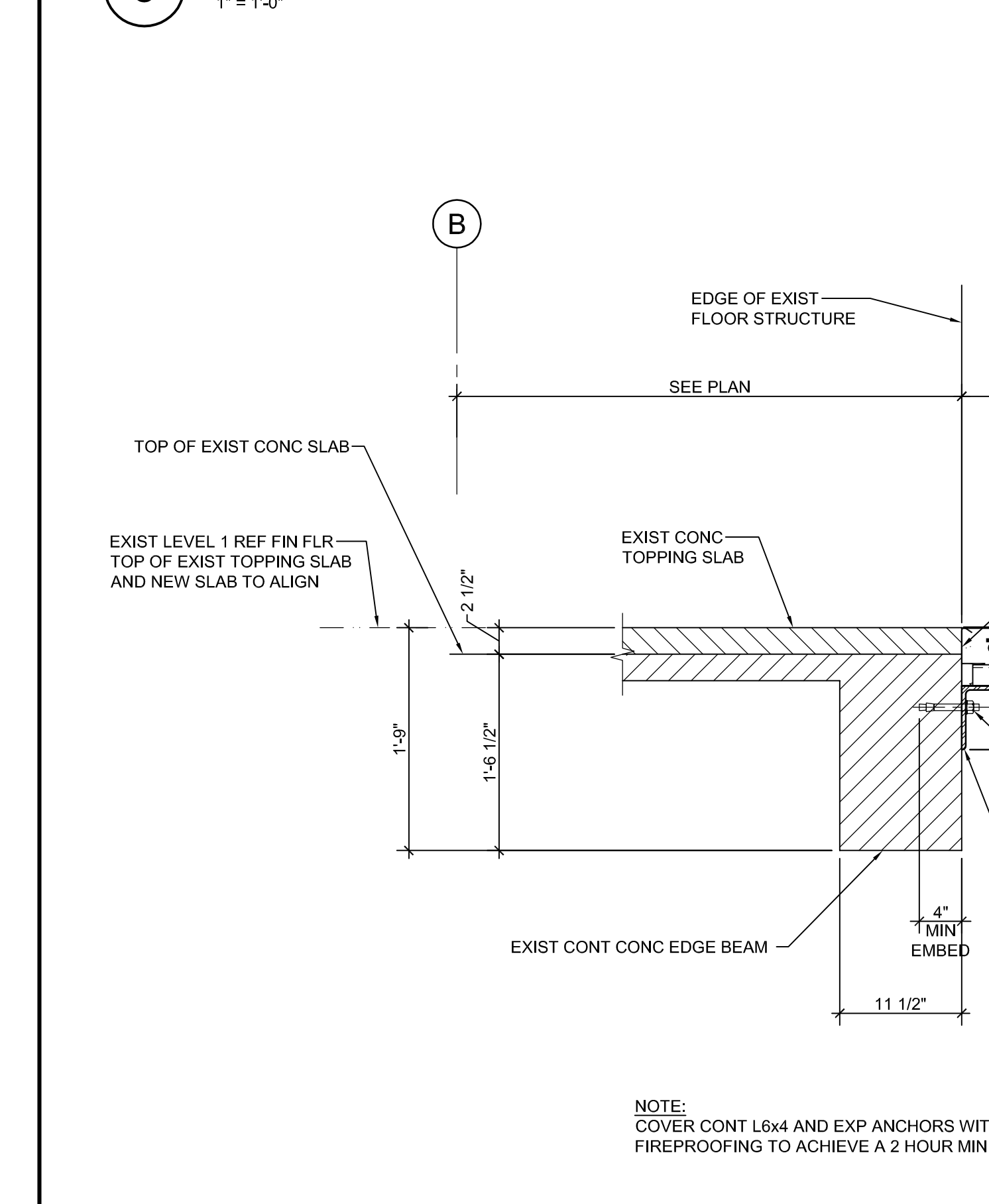
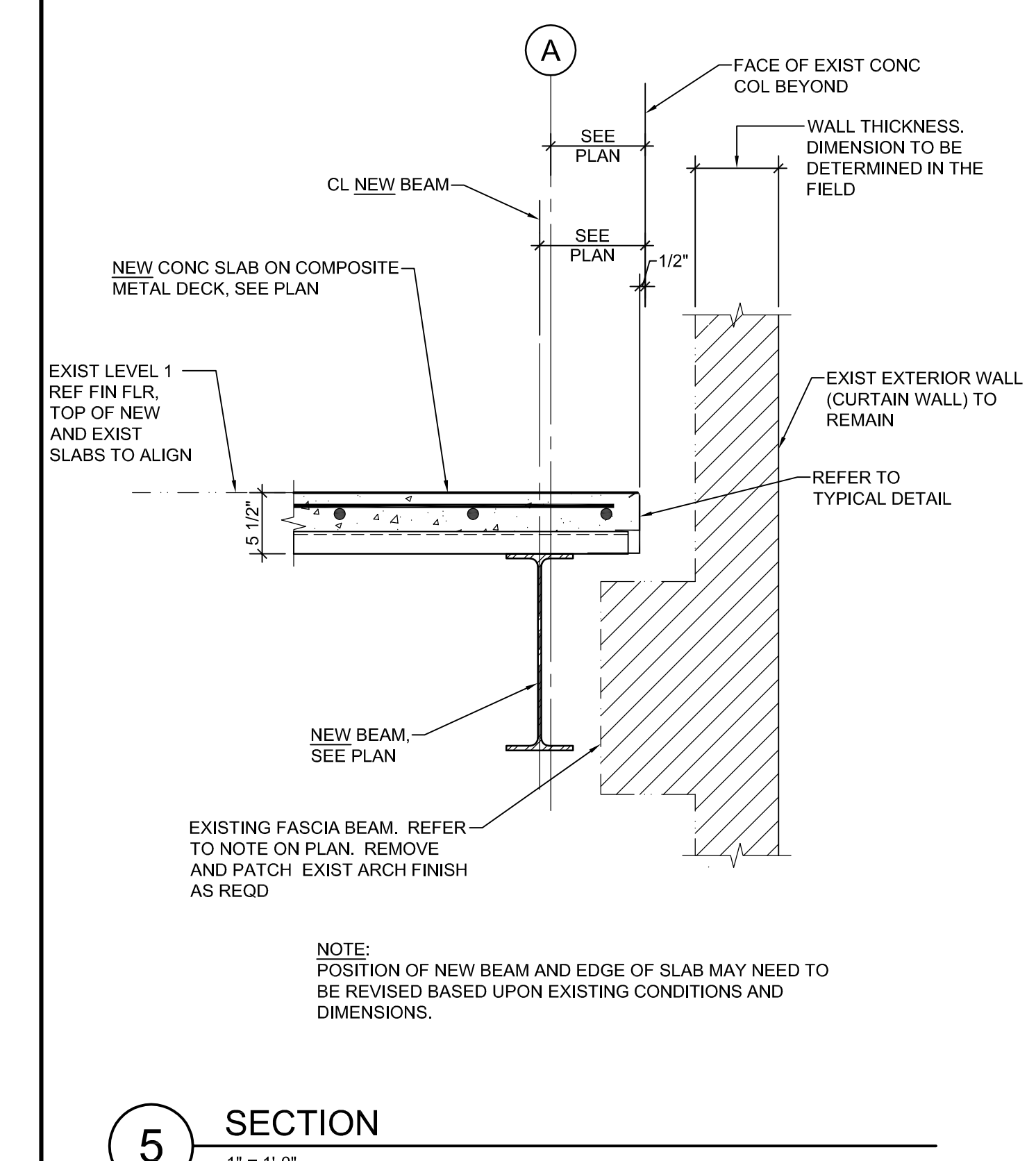
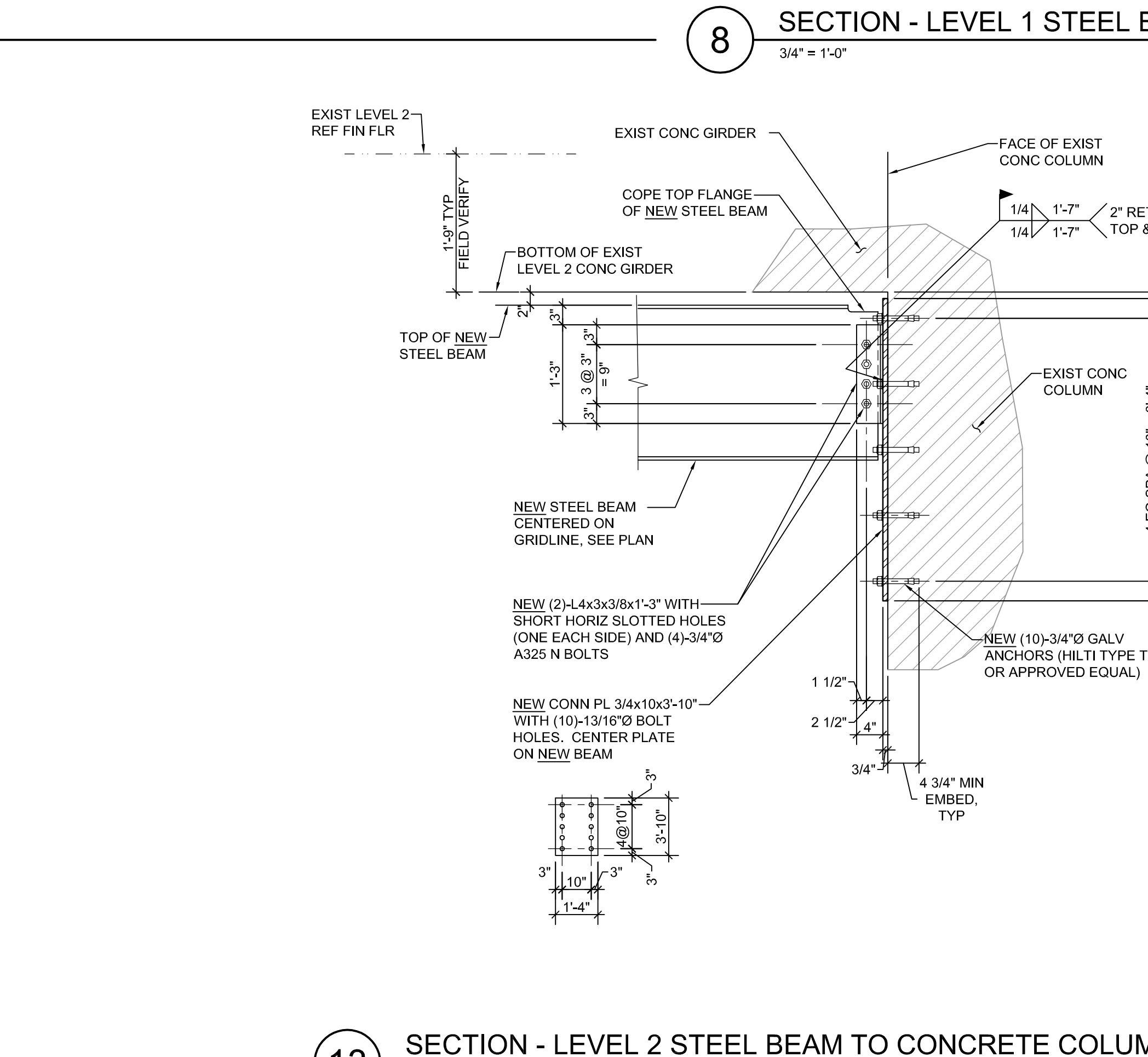
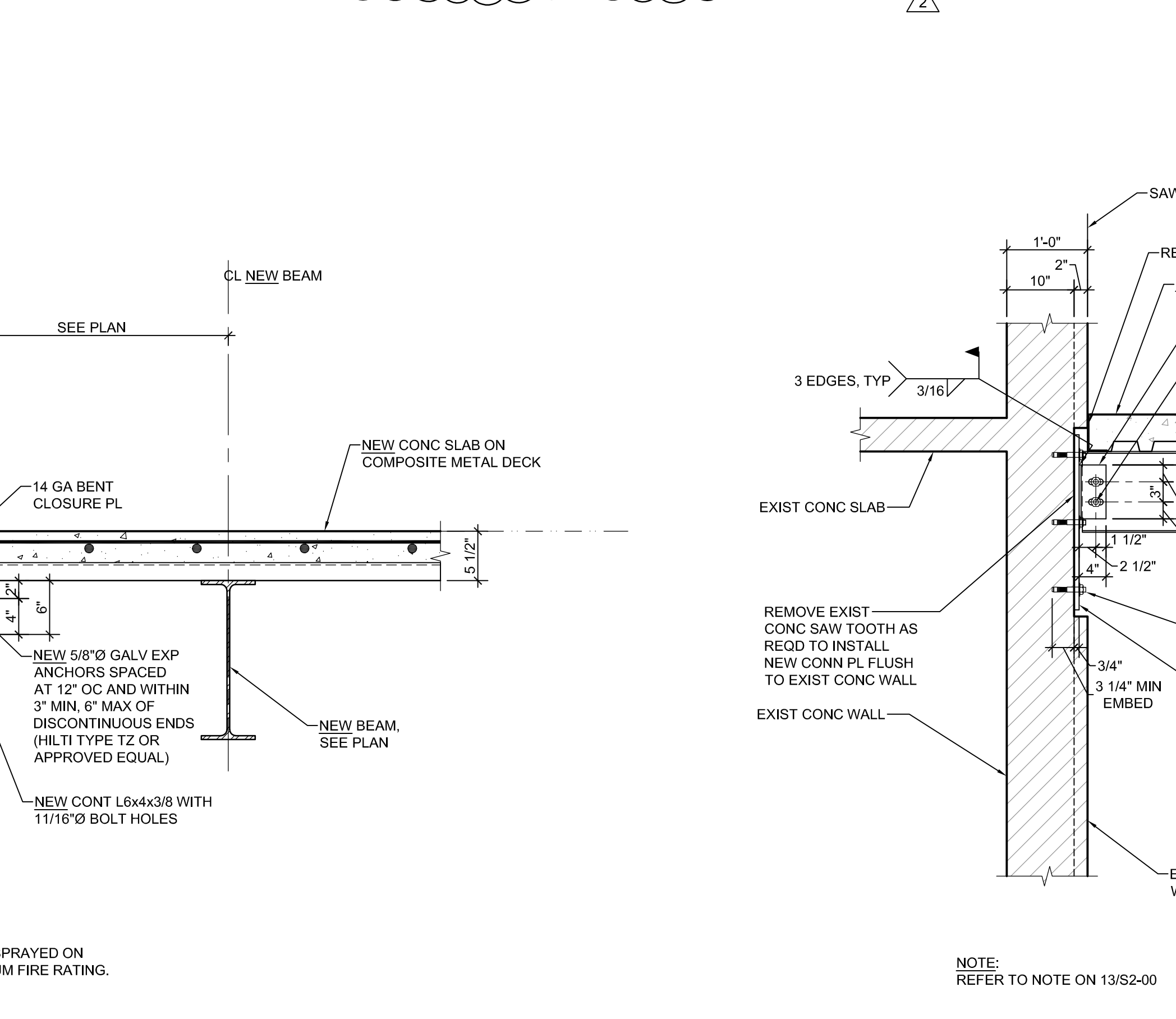
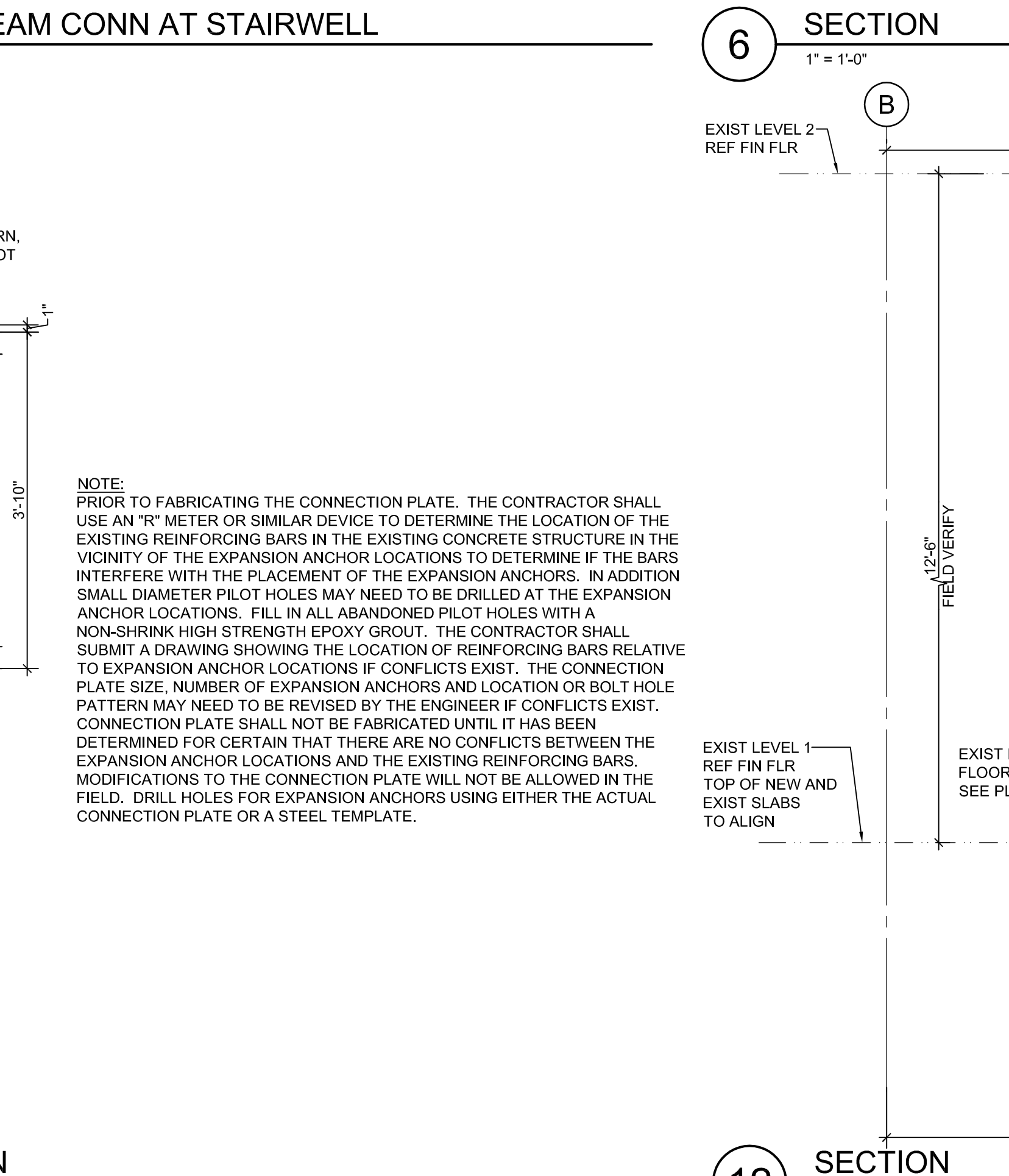
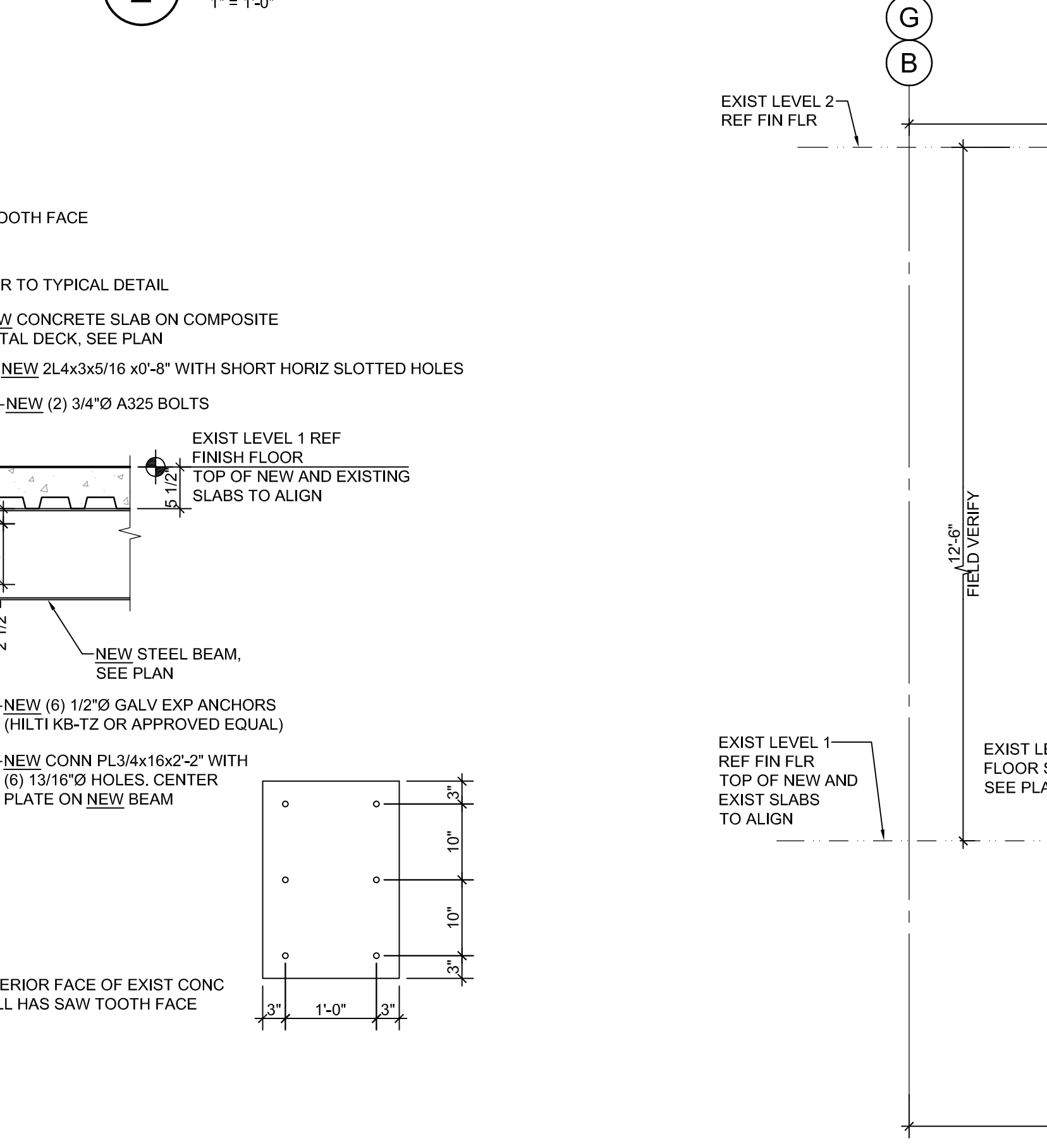
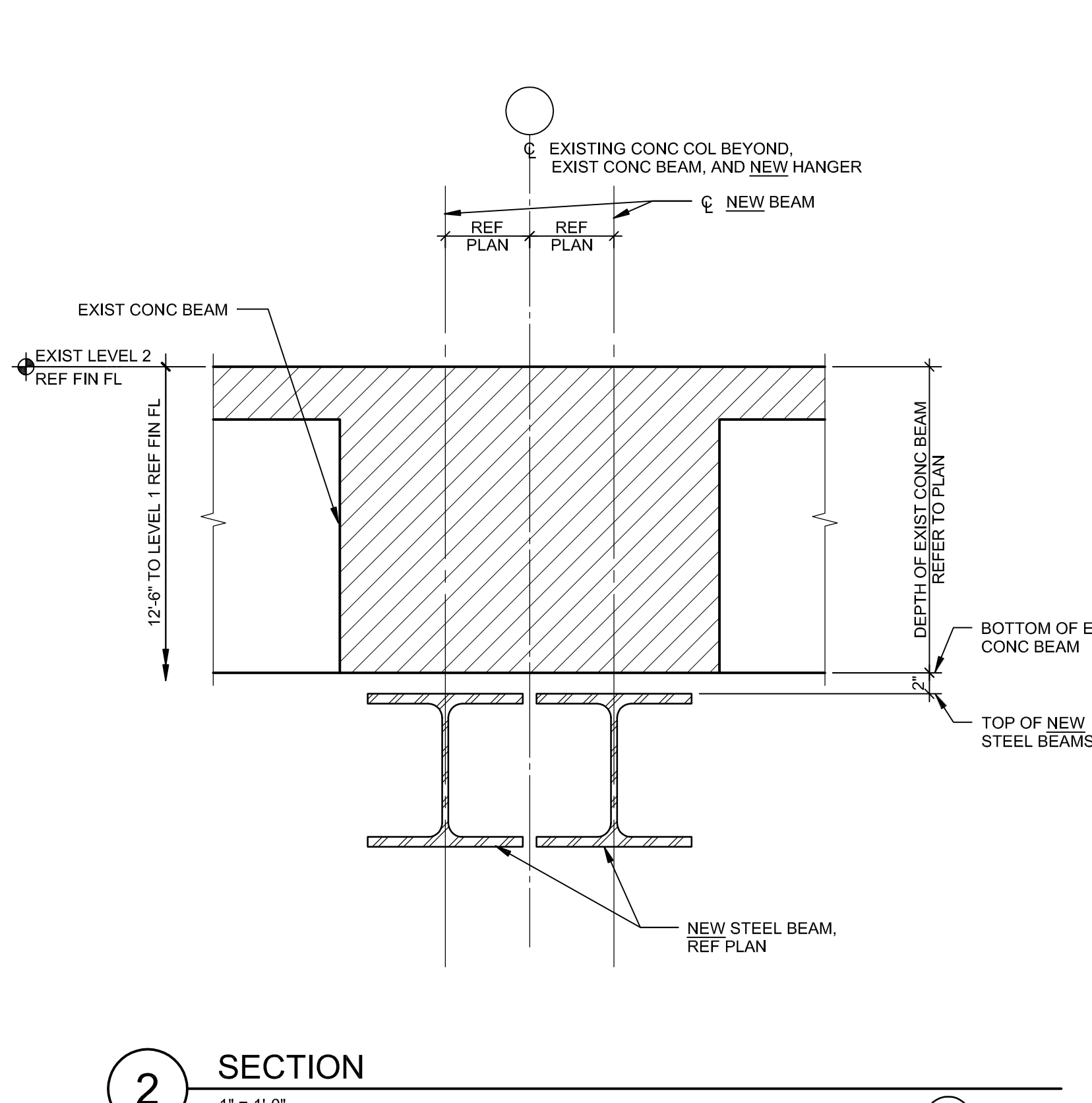
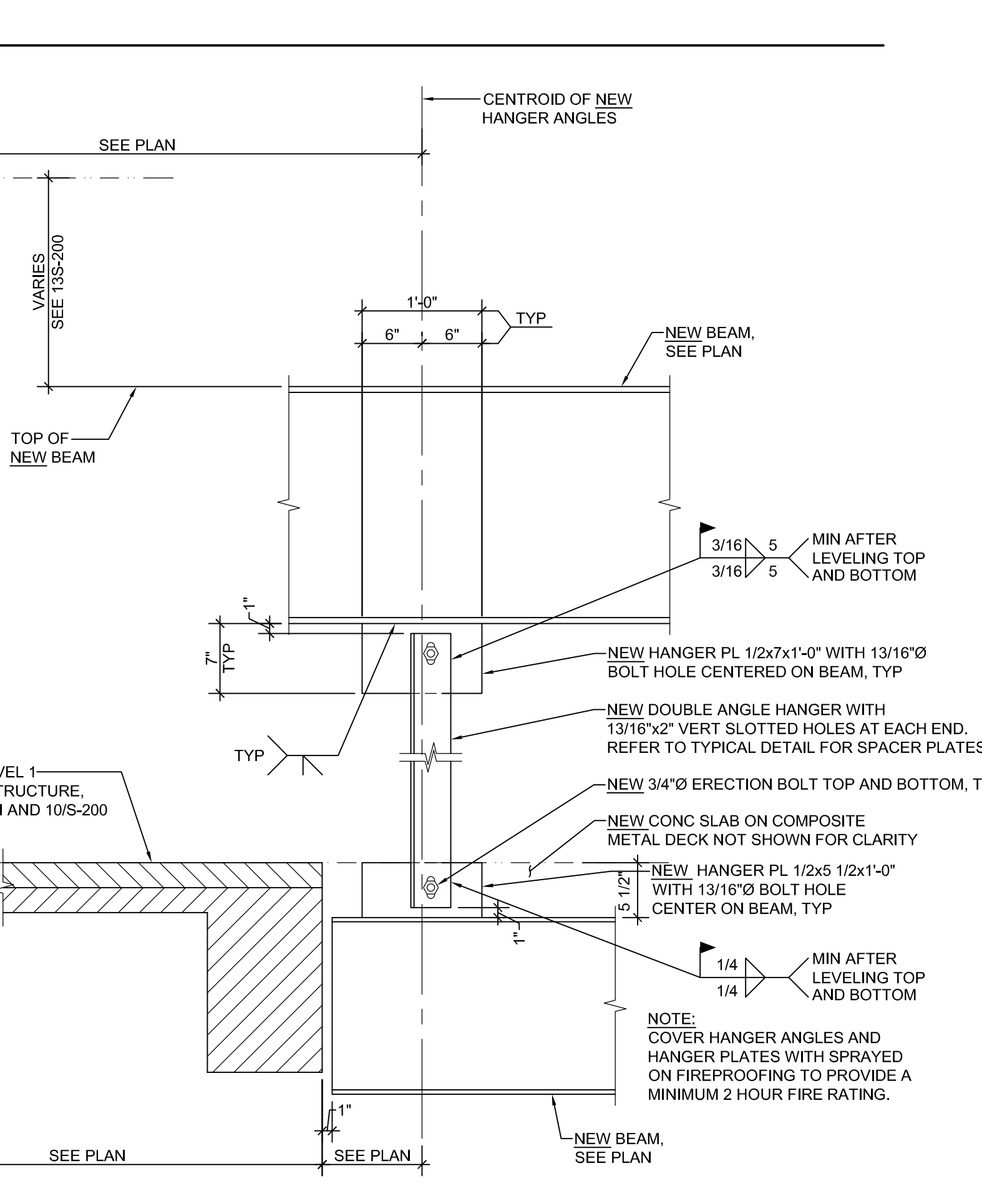
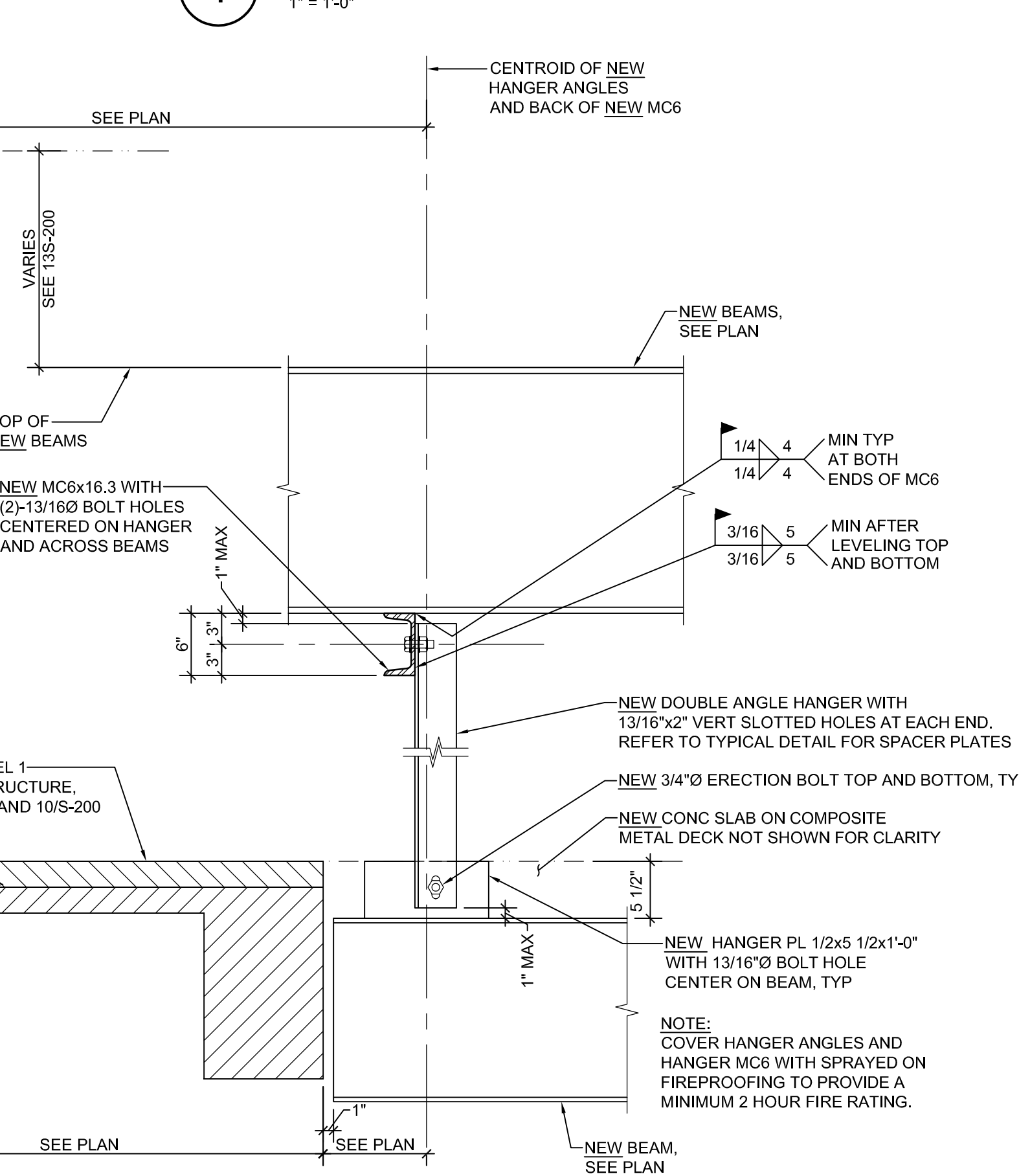
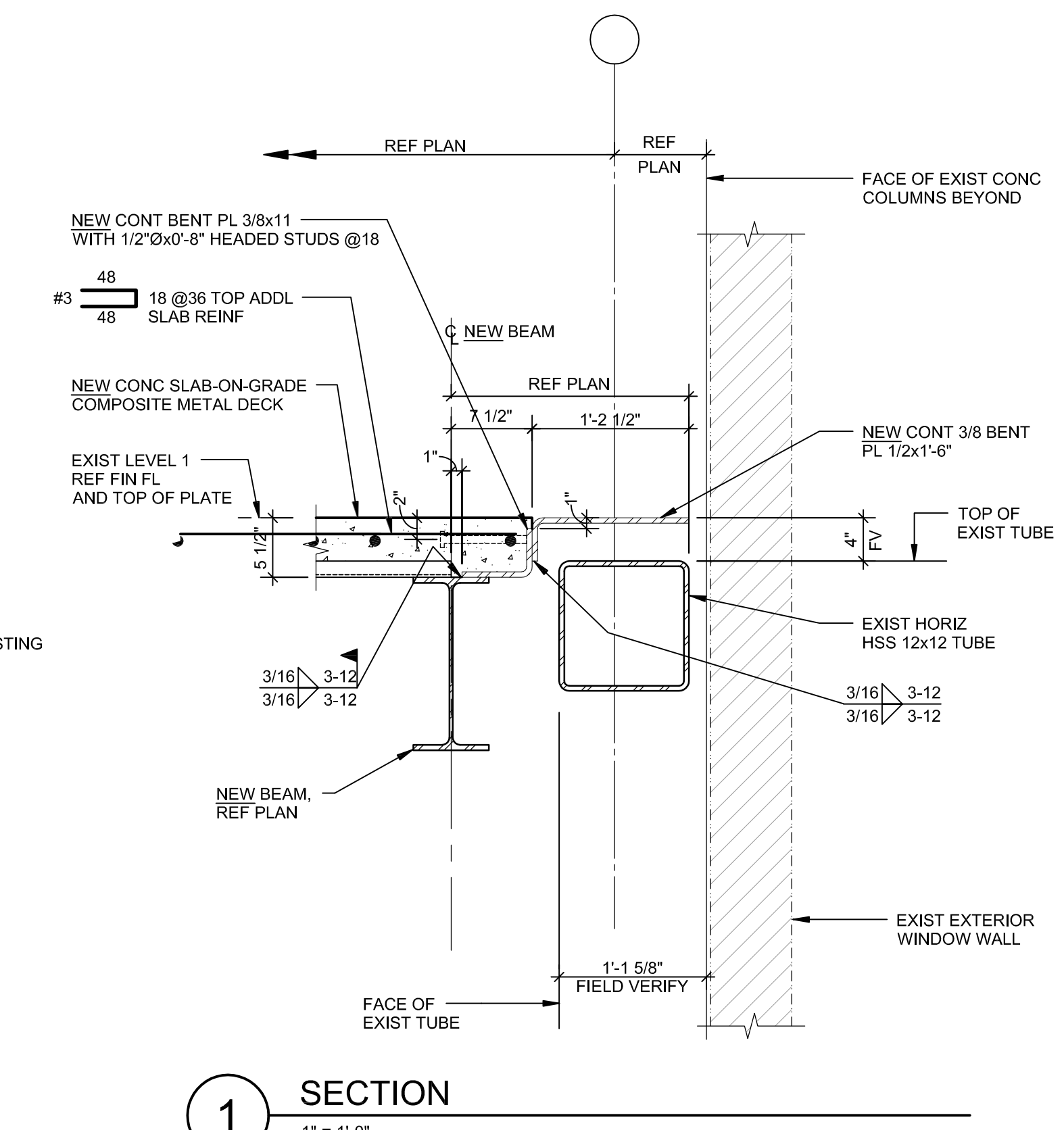
Table with 3 columns: No., Date, Description. Contains revision history for construction and addendum.

MSB
1st Floor Infill
LRC 3 & 4



SECTIONS AND DETAILS

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Design No. X732

May 13, 2015

Ratings – 3/4, 1, 1-1/2, 2, 3 and 4 Hr.



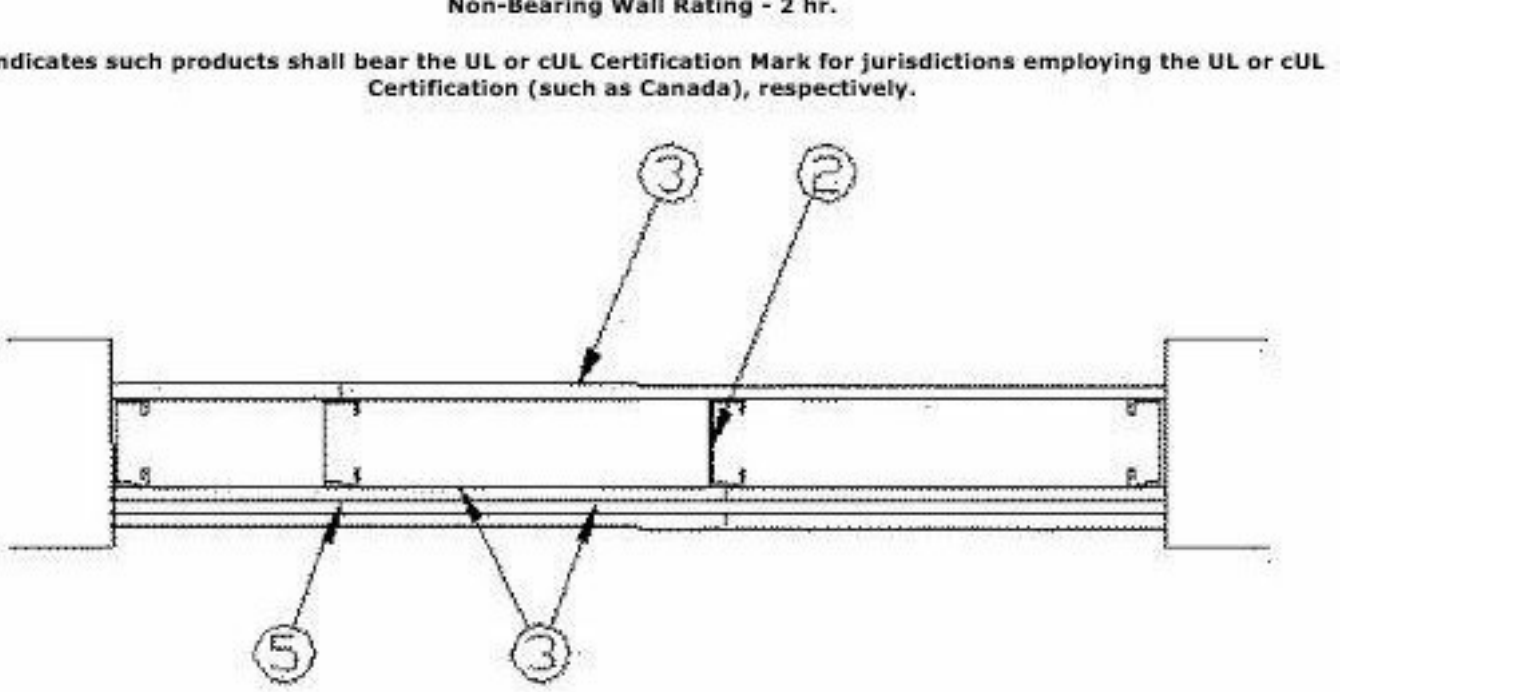
Rating Hr	Min Thickness in.
3/4	7/16
1	9/16
1-1/2	1 1/16
2	1 1/8
3	1-3/8
4	1-3/4

- Spray-Applied Fire Resistive Materials*** – See table below for appropriate thickness. Prepared by mixing with water according to instructions on each bag of mixture. Mixture can be spray or trowel applied in one or more coats to steel surfaces. Min average density of 55 pcf with min ind value of 50 pcf. For method of density determination, see Design Information Section, Sprayed Material. Surface material may be lightly finished with a trowel.
- Steel Column** – Min size of column, Type W10x19.
- *Indicates such products shall bear the UL or cUL Certification Mark for Jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Design No. V449

March 31, 2016

Non-Bearing Wall Rating – 2 Hr.



- *Indicates such products shall bear the UL or cUL Certification Mark for Jurisdictions employing the UL or cUL Certification (such as Canada), respectively.
- Floor and Ceiling Runners** – (Not Shown) – Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min width to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.
 - Framing Members* – Floor and Ceiling Runner** – (Not Shown) – In lieu of Item 1 – For use with Item 2A, proprietary channel shaped runners, min 3-1/2 in. wide with 1-1/4 in. long legs fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
 - CALIFORNIA EXPANDED METAL PRODUCTS CO** – Viper20™ Track
 - MARINOWARE, DIV OF WARE INDUSTRIES INC** – Viper20™ Track
 - 18. Framing Members* – Floor and Ceiling Runners** – (Not Shown) – As an alternate to Item 1 – For use with Item 2B, channel shaped, min 3-1/2 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners 24 in. OC max.
 - CLARKDIETRICH BUILDING SYSTEMS** – CD ProTRAK
 - DMFCWS L L C** – ProTRAK
 - MBA METAL FRAMING** – ProTRAK
 - RAM SALES L L C** – Ram ProTRAK
 - STEEL STRUCTURAL PRODUCTS L L C** – Tri-S ProTRAK
 - 1C. Framing Members* – Floor and Ceiling Runner** – (Not Shown) – In lieu of Item 1 – For use with Item 2C, proprietary channel shaped runners, min 3-1/2 in. wide with 1-1/4 in. long legs fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
 - TELLING INDUSTRIES L L C** – Viper20™ Track
 - 1D. Framing Members* – Floor and Ceiling Runners** – (Not Shown) – As an alternate to Item 1 – For use with Item 2D, channel shaped, min 3-1/2 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners 24 in. OC max.
 - TELLING INDUSTRIES L L C** – TRUE-TRACK™
 - 2. Steel Studs** – Channel shaped, fabricated from min 25 MSG corrosion-protected steel, 3-1/2 in. min width, min 1-1/4 in. flanges and 1/4 in. return, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
 - 2A. Framing Members* – Steel Studs** – (Not Shown) – In lieu of Item 2 – For use with Item 1A, proprietary channel shaped steel studs, 1-1/4 in. deep by min 3-1/2 in. min width fabricated from min 0.020 in. thick galv steel. Studs cut 3/8 to 3/4 in. less in length than assembly height.
 - CALIFORNIA EXPANDED METAL PRODUCTS CO** – Viper20™
 - MARINOWARE, DIV OF WARE INDUSTRIES INC** – Viper20™
 - 2B. Framing Members* – Steel Studs** – As an alternate to Item 2 – For use with Item 1B, channel shaped studs, min 3-1/2 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
 - CLARKDIETRICH BUILDING SYSTEMS** – CD ProSTUD
 - DMFCWS L L C** – ProSTUD
 - MBA METAL FRAMING** – ProSTUD
 - RAM SALES L L C** – Ram ProSTUD
 - STEEL STRUCTURAL PRODUCTS L L C** – Tri-S ProSTUD
 - 2C. Framing Members* – Steel Studs** – (Not Shown) – In lieu of Item 2 – For use with Item 1C, proprietary channel shaped steel studs, 1-1/4 in. deep by min 3-1/2 in. min width fabricated from min 0.020 in. thick galv steel. Studs cut 3/8 to 3/4 in. less in length than assembly height.
 - TELLING INDUSTRIES L L C** – Viper20™
 - 2E. Framing Members* – Steel Studs** – As an alternate to Item 2 – For use with Item 1E, channel shaped studs, min 3-1/2 in. wide fabricated from min 25 MSG corrosion-protected steel, 1-1/4 in. wide by 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
 - MARINOWARE, DIV OF WARE INDUSTRIES INC** – StudRite™
 - 3. Gypsum Board*** – 5/8 in. thick, 4 ft. wide with beveled, square or tapered edges. Applied vertically with joints centered over studs and staggered between layers.
 - NATIONAL GYPSUM CO** – 5/8 in. thick Type PSK, FSL, FSW, FSW-3, FSW-8, FSW-9, FSW-C, SoundBlock XP Type X Gypsum Board
 - CARBOLINE CO** – Type 241, Type 241 HD. Investigated for exterior use.
 - CARBOLINE KOREA LTD** – Type 241, Type 241 HD. Investigated for exterior use.
 - CARBOLINE (INDIA) PVT LTD** – Type 241, Type 241 HD. Investigated for exterior use.
 - NATIONAL GYPSUM CO** – Type FSW
 - STONCOR MIDDLE EAST L L C** – Type 241, Type 241 HD. Investigated for exterior use.
 - STONCOR SOUTH CONE S A** – Type 241, Type 241 HD. Investigated for exterior use.
 - 4. Fasteners** – (Not Shown) – For base layer, 1-1/8 in. Type 5 screws used to attach panels to studs, spaced 8 in. OC, around perimeter and 12 in. OC in field. Second layer, 1-5/8 in. long Type 5 screws spaced 12 in. OC, around perimeter and 12 in. OC in field. Third layer, 1-5/8 in. long Type 5 screws staggered 6 in. OC, from base layer. Face layer, 2-1/4 in. Type 5 screws spaced 8 in. OC, around perimeter and 12 in. OC in field. Face layer perimeter screws staggered 1 in. OC, from second layer and staggered 6 in. OC in field.
 - 5. Joint Tape and Compound** – Vinyl or casen, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, 2 in. wide, embedded in first layer of compound over all joints or outer panels.
 - Indicates such products shall bear the UL or cUL Certification Mark for Jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Restrainted Assembly Rating Hr	Unrestrained Beam Rating Hr	Unrestrained Steel Rating Hr	Spray Applied Fire Resistive Material on Beams In.
1	1	1	0/0
1-1/2	1	1	0/0
1-1/2	1-1/2	1-1/2	0/0
1	1	1	1-0/0
2	1-1/2	1-1/2	0/0
1	1	1	1-0/0

Restrainted Assembly Rating Hr	Unrestrained Beam Rating Hr	Unrestrained Steel Rating Hr	Spray Applied Fire Resistive Material on Beams In.
1	1	1	0/0
1-1/2	1-1/2	1-1/2	0/0
1	1	1	0/0
2	1-1/2	1-1/2	0/0
1	1	1	1-0/0

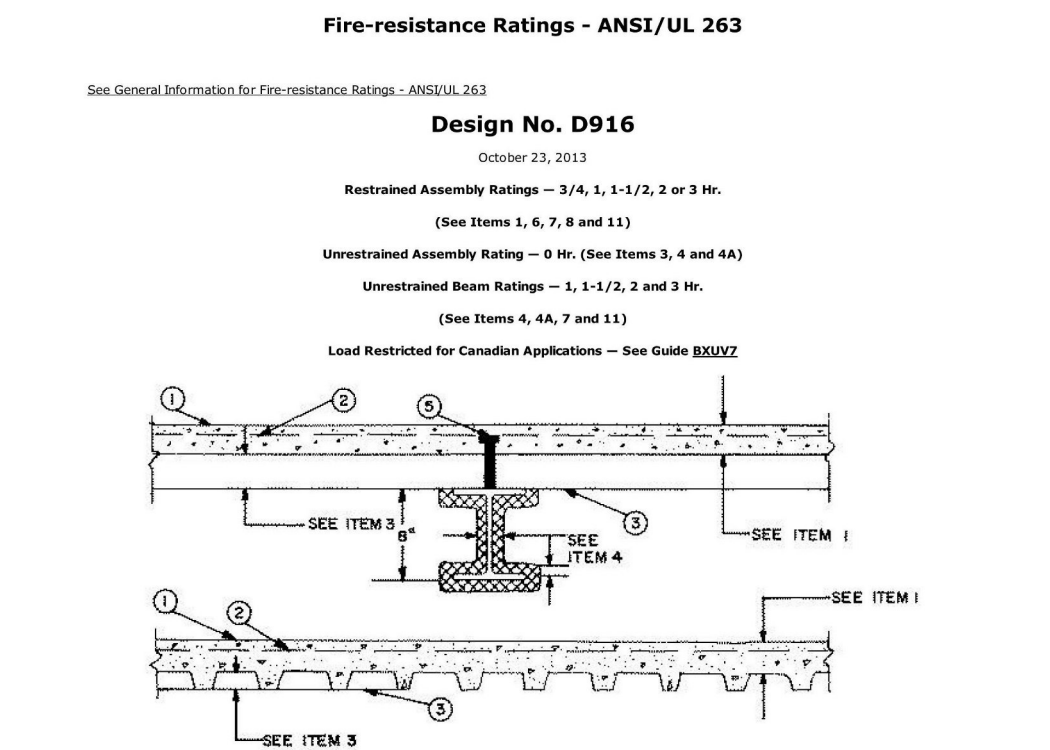
Restrainted Assembly Rating Hr	Unrestrained Beam Rating Hr	Unrestrained Steel Rating Hr	Spray Applied Fire Resistive Material on Beams In.
1	1	1	0/0
1-1/2	1-1/2	1-1/2	0/0
1	1	1	0/0
2	1-1/2	1-1/2	0/0
1	1	1	1-0/0

Restrainted Assembly Rating Hr	Unrestrained Beam Rating Hr	Unrestrained Steel Rating Hr	Spray Applied Fire Resistive Material on Beams In.
1	1	1	0/0
1-1/2	1-1/2	1-1/2	0/0
1	1	1	0/0
2	1-1/2	1-1/2	0/0
1	1	1	1-0/0

Unrestrained Beam Rating Hr	Restrainted Assembly Rating Hr	Concrete Type	Spray Applied Fire Resistive Material on Beams In.
1	1	NB or LR	1-0/0
1-1/2	1-1/2	NB or LR	1-0/0
1	1	NB or LR	1-0/0
1-1/2	1-1/2	LP	1

Unrestrained Beam Rating Hr	Restrainted Assembly Rating Hr	Concrete Type	Spray Applied Fire Resistive Material on Beams In.
1	1	NB or LR	1-0/0
1-1/2	1-1/2	NB or LR	1-0/0
1	1	NB or LR	1-0/0
1-1/2	1-1/2	LP	1

Restrainted Assembly Rating Hr	Unrestrained Beam Rating Hr	Unrestrained Steel Rating Hr	Spray Applied Fire Resistive Material on Beams In.
1	1	1	1/2
1-1/2	1-1/2	1-1/2	1/2
2	1	1	1/2
1-1/2	1-1/2	1-1/2	1/2
2	1-1/2	1-1/2	1/2
3	3	3	1-0/0



Restrainted Assembly Rating Hr	Concrete Weight	Concrete Unit Weight	Concrete Thickness In.
1	Normal Weight	147-153	3-1/2
1-1/2	Normal Weight	147-153	4
2	Normal Weight	147-153	4-1/2
3	Normal Weight	147-153	5-1/4
3/4 or 1 (See Item 6)	Lightweight	107-113	2-1/2
1-1/2	Lightweight	107-113	2-5/8
1-1/2	Lightweight	107-113	3
2	Lightweight	107-113	3-1/4
3	Lightweight	107-113	3-1/2
3	Lightweight	107-113	4-3/16
3	Lightweight	114-120	4-7/16

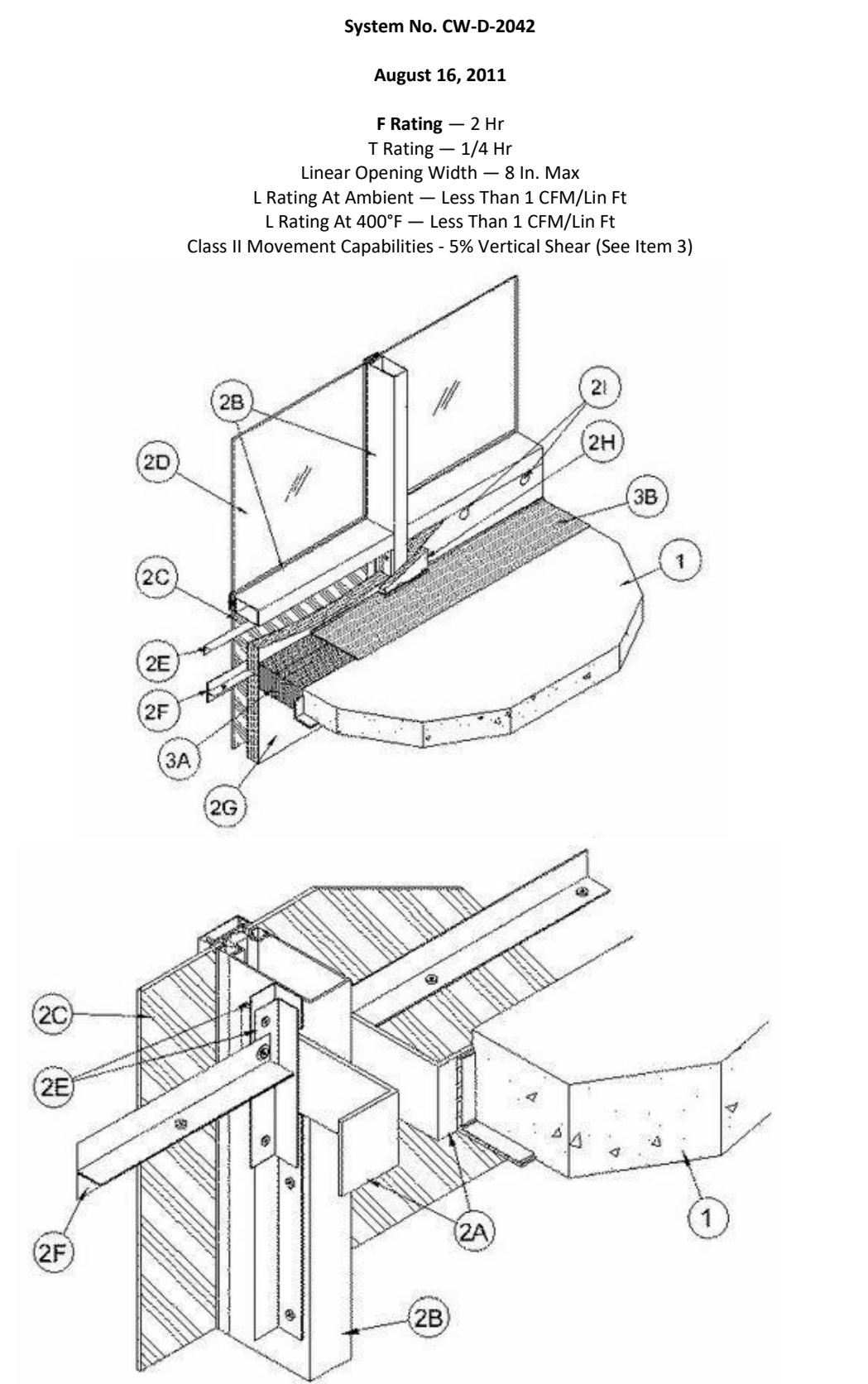
Restrainted Assembly Rating Hr	Unrestrained Beam Rating Hr	Unrestrained Steel Rating Hr	Spray Applied Fire Resistive Material on Beams In.
1	1	1	0/0
1-1/2	1-1/2	1-1/2	0/0
1	1	1	0/0
2	1-1/2	1-1/2	0/0
1	1	1	1-0/0

Restrainted Assembly Rating Hr	Unrestrained Beam Rating Hr	Unrestrained Steel Rating Hr	Spray Applied Fire Resistive Material on Beams In.
1	1	1	0/0
1-1/2	1-1/2	1-1/2	0/0
1	1	1	0/0
2	1-1/2	1-1/2	0/0
1	1	1	1-0/0

Restrainted Assembly Rating Hr	Unrestrained Beam Rating Hr	Unrestrained Steel Rating Hr	Spray Applied Fire Resistive Material on Beams In.
1	1	1	0/0
1-1/2	1-1/2	1-1/2	0/0
1	1	1	0/0
2	1-1/2	1-1/2	0/0
1	1	1	1-0/0

Restrainted Assembly Rating Hr	Unrestrained Beam Rating Hr	Unrestrained Steel Rating Hr	Spray Applied Fire Resistive Material on Beams In.
1	1	1	0/0
1-1/2	1-1/2	1-1/2	0/0
1	1	1	0/0
2	1-1/2	1-1/2	0/0
1	1	1	1-0/0

Restrainted Assembly Rating Hr	Unrestrained Beam Rating Hr	Unrestrained Steel Rating Hr	Spray Applied Fire Resistive Material on Beams In.
1	1	1	0/0
1-1/2	1-1/2	1-1/2	0/0
1	1	1	0/0
2	1-1/2	1-1/2	0/0
1	1	1	1-0/0



Restrainted Assembly Rating Hr	Unrestrained Beam Rating Hr	Unrestrained Steel Rating Hr	Spray Applied Fire Resistive Material on Beams In.
1	1	1	0/0
1-1/2	1-1/2	1-1/2	0/0
1	1	1	0/0
2	1-1/2	1-1/2	0/0
1	1	1	1-0/0

Restrainted Assembly Rating Hr	Unrestrained Beam Rating Hr	Unrestrained Steel Rating Hr	Spray Applied Fire Resistive Material on Beams In.
1	1	1	0/0
1-1/2	1-1/2	1-1/2	0/0
1	1	1	0/0
2	1-1/2	1-1/2	0/0
1	1	1	1-0/0

Restrainted Assembly Rating Hr	Unrestrained Beam Rating Hr	Unrestrained Steel Rating Hr	Spray Applied Fire Resistive Material on Beams In.
1	1	1	0/0
1-1/2	1-1/2	1-1/2	0/0
1	1	1	0/0
2	1-1/2	1-1/2	0/0
1	1	1	1-0/0

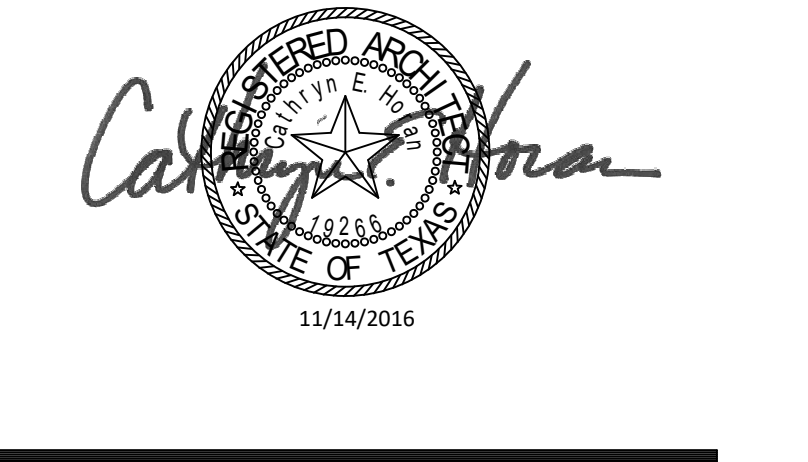
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1-1/2	1-1/2	1-1/2	0/0
1	1	1	0/0
2	1-1/2	1-1/2	0/0
1	1	1	1-0/0

Restrainted Assembly Rating Hr	Unrestrained Beam Rating Hr	Unrestrained Steel Rating Hr	Spray Applied Fire Resistive Material on Beams In.
1	1	1	0/0
1-1/2	1-1/2	1-1/2	0/0
1	1	1	0/0
2	1-1/2	1-1/2	0/0
1	1	1	1-0/0

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No.	Date	Description
1	11/14/2016	Addendum 3

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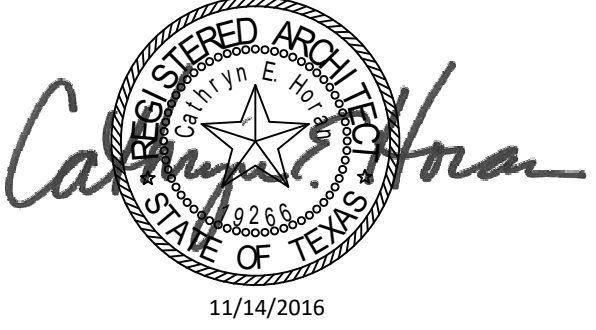
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1	11/14/2016	Addendum 3



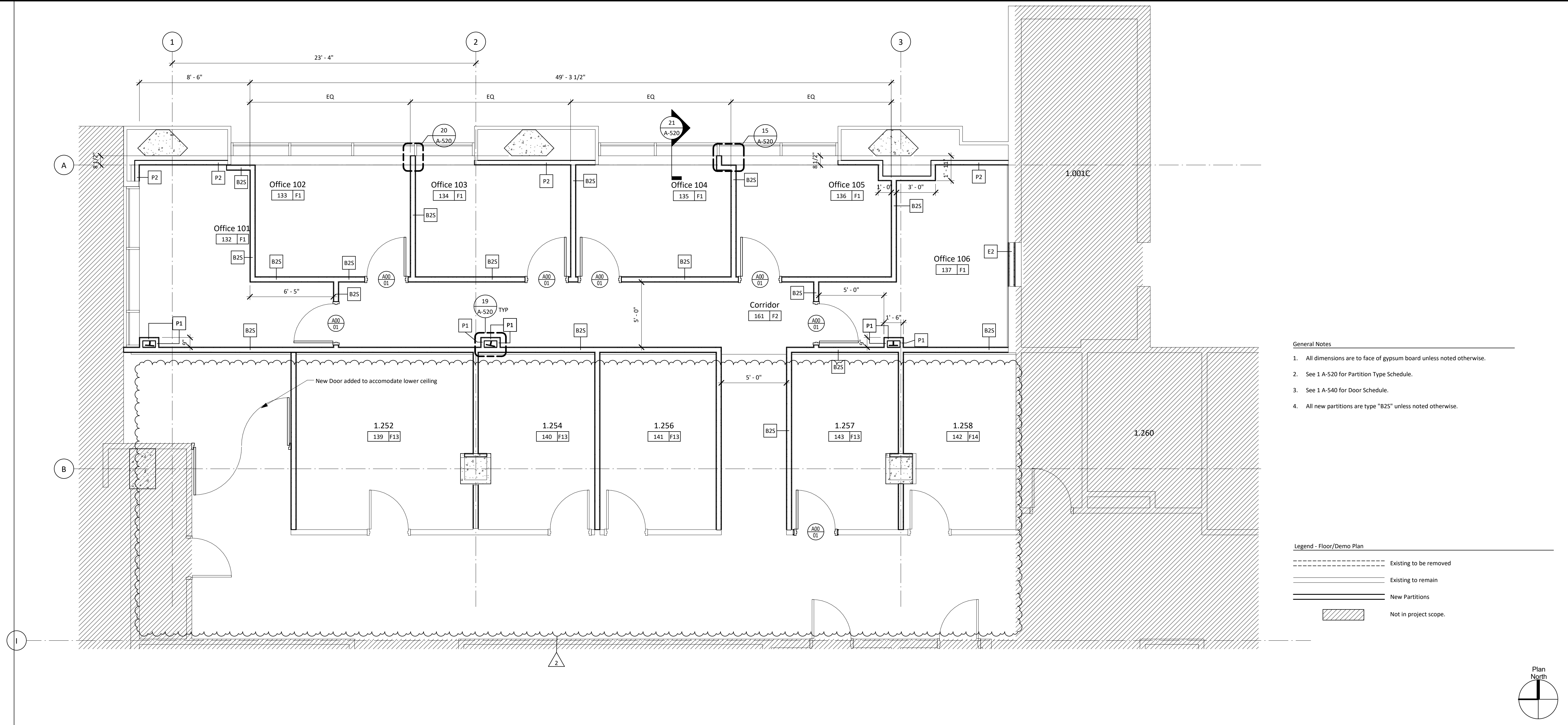
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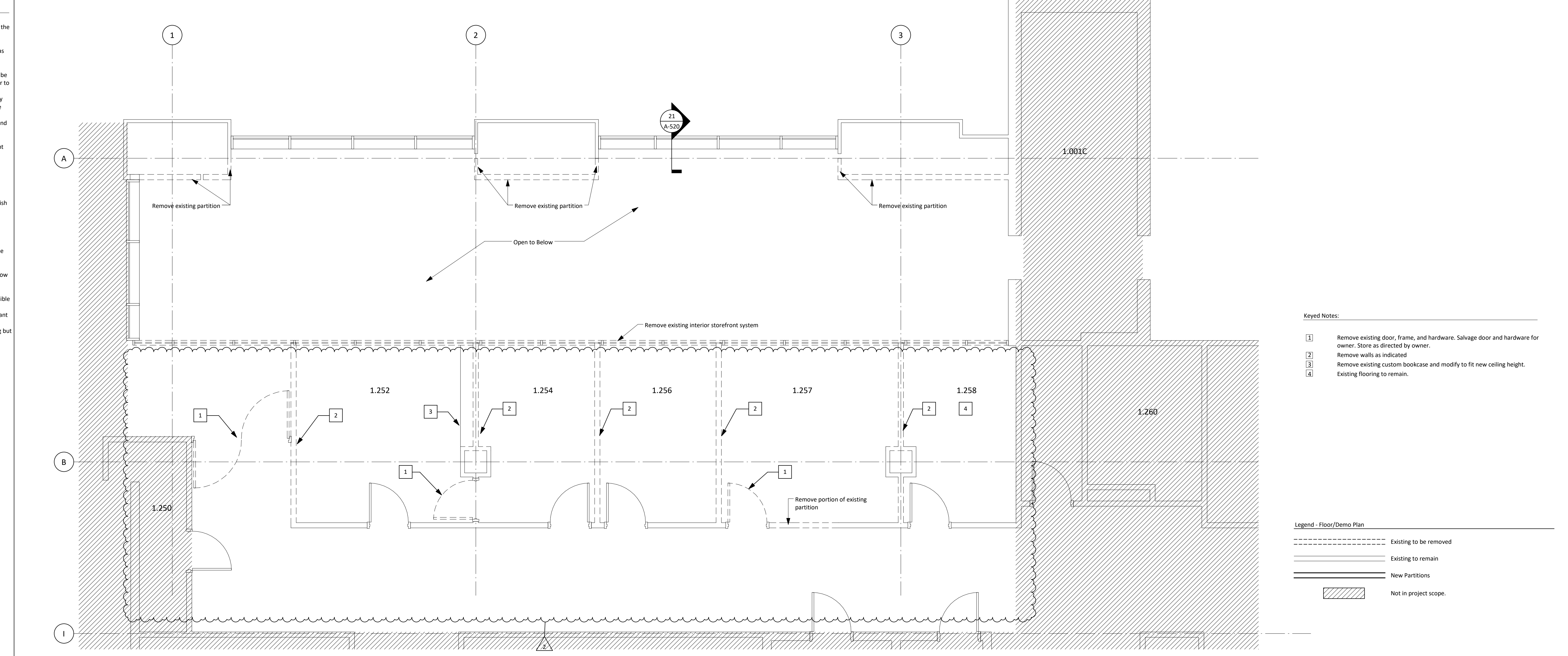
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Level 1 Floor Plan - East 1/4" = 1'-0" 2

Demolition Notes:

- The Contractor shall be responsible for the protection against vandalism/unauthorized entry, etc. during the removal of and replacement of the interior envelope. Do not leave building components unprotected or uncovered after hours.
- Contractor to provide protection, as required during construction, at all remaining utilities (clean outs, gas valves, etc.).
- Coordinate with Owner proper access and location for waste disposal and location of dumpsters.
- Contractor to demolish and dispose of all items shown/ noted to be removed, verify with owner items to be recycled. Items noted to be reused or returned to Owner shall be cleaned thoroughly by Contractor prior to storage or re-installation.
- Contractor to remove all electrical outlets, voice/data outlets, light switches, and thermostats affected by demolition work. Contractor shall cap all involved wiring and revise any necessary changes on respective electrical panels.
- The building will remain occupied during demolition/renovation. Contractor to coordinate shut-downs and tie-ins to all mechanical, electrical, plumbing, communications, fire alarms, and sprinkler systems to minimize disruptions to building occupants.
- Contractor to protect existing smoke detectors from dust/debris during demolition/renovation to prevent accidental trigger of the alarm system.
- Contractor will be responsible for the protection of existing furniture, equipment, finishes, etc. during demolition/renovation. Items damaged will be repaired or replaced with new at Contractor's expense.
- Contractor to provide and maintain corridor access and fire egress requirements during all demolition/renovation construction phases.
- Contractor to protect existing doors, frames, or hardware remaining during demolition/renovation. Contractor to paint any existing frames remaining after construction to match existing. Clean and refurbish any salvaged door hardware for re-installation. Replace any non-code compliant hardware with new to match existing building standards.
- Contractor to remove all existing floor and ceiling finishes in demolition area, unless noted otherwise.
- Coordinate with Owner for removal of all cameras/readers/ etc.
- Contractor shall adhere to all Life Safety and Indoor Air Quality Control standards at all times. Non-compliance may result in the shut-down of activities, in which no time extension or additional costs to the Owner will be allowed.
- Maintenance of indoor air quality is critical in areas of all facilities. Construction causing disturbance of existing dust, or creating new dust, odors, etc. must be conducted in tight enclosures that prohibit the flow of particles into sensitive areas. The contractor is required to provide dust barriers as determined by the project manager, Environmental Health and Safety and/or Infection Control.
- Contractor shall protect all column/composite deck with existing fireproofing. Contractor will be responsible to ensure that any damaged fire proofing is replaced for approved required rating.
- Contractor to make best effort to salvage doors, frames, hardware, etc. and confirm with O&M if they want warehouse salvaged items.
- Contractor responsible to inspect existing conditions for all window frames and sills for damage including but not limited to scratches, cracks and dents.



Demolition First Level - East 1/4" = 1'-0" 1

MSB 1st Floor Infill LRC 3 & 4



Floor Plan East

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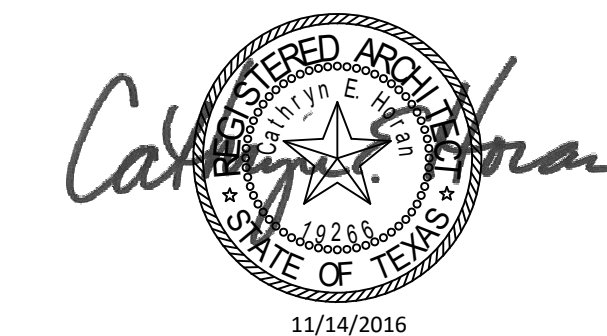
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Sheet Number

214-198R

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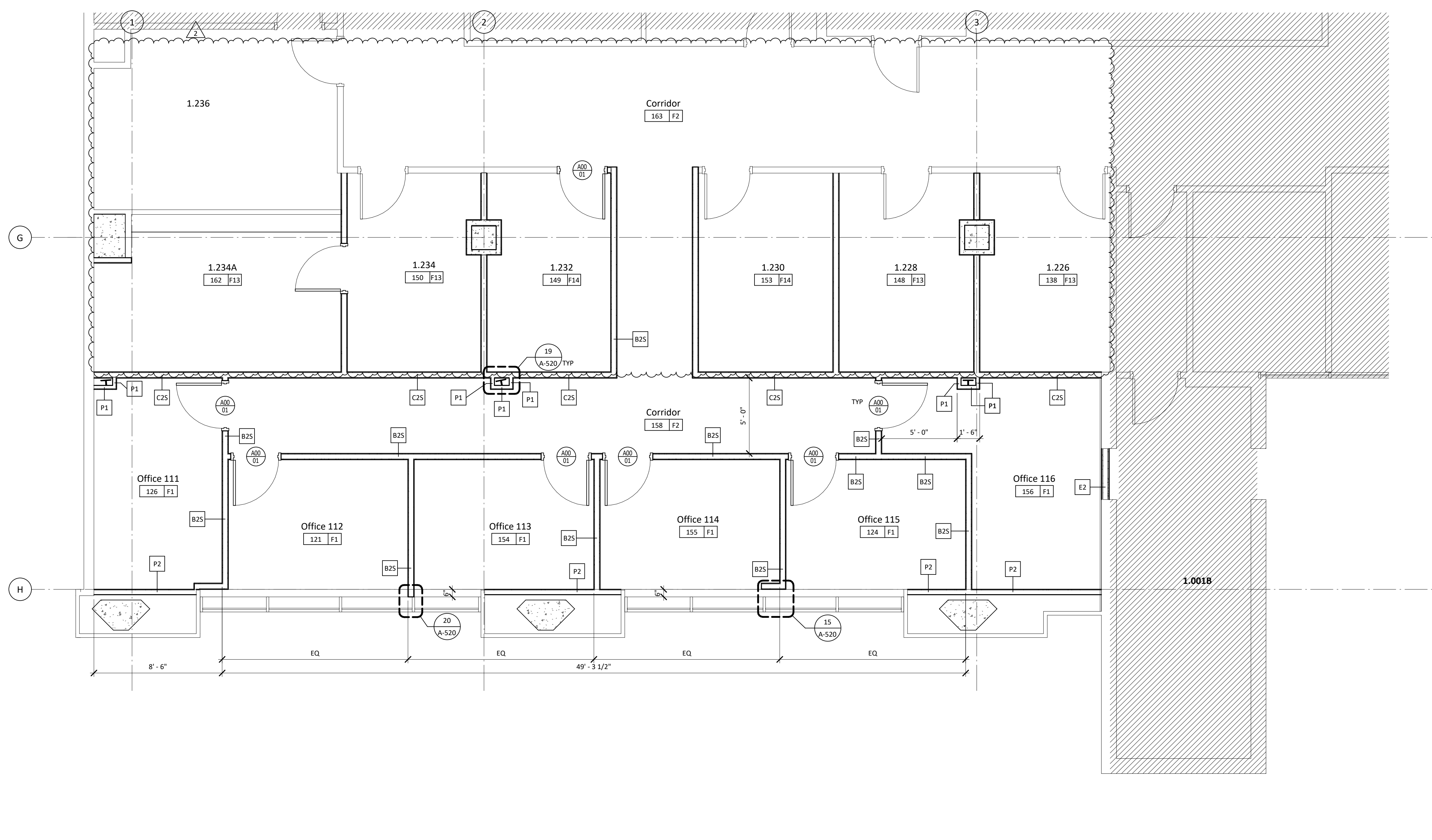


Structural Engineer

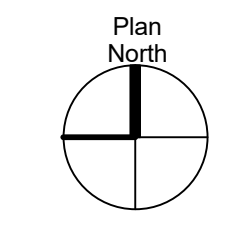
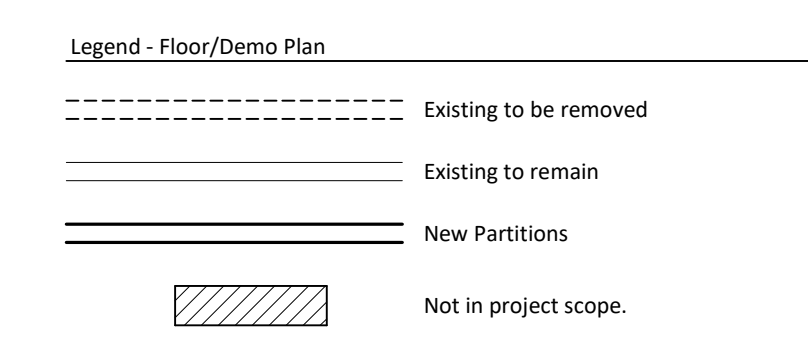
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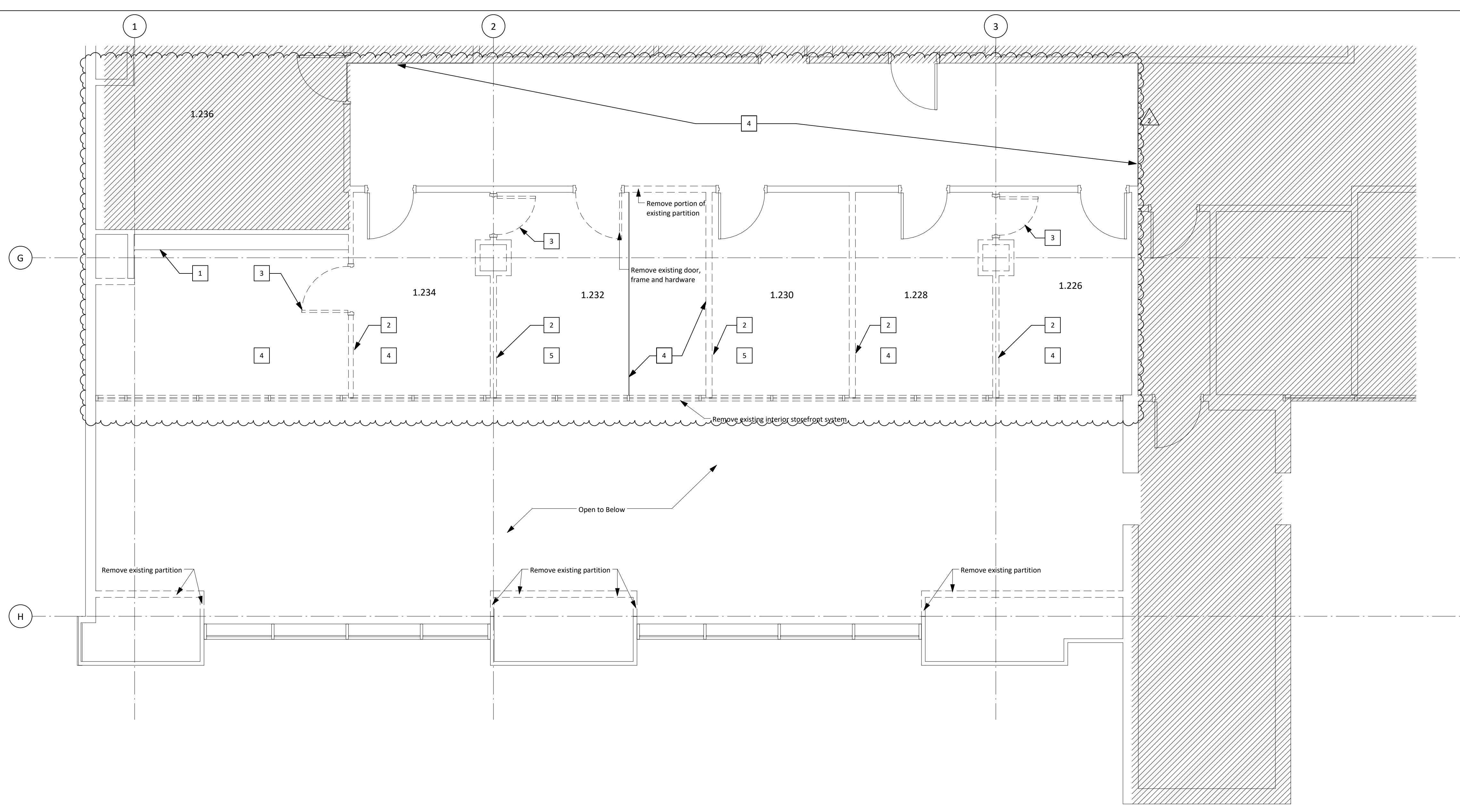
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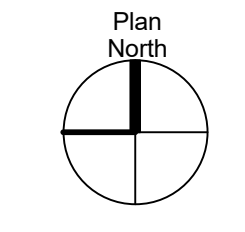
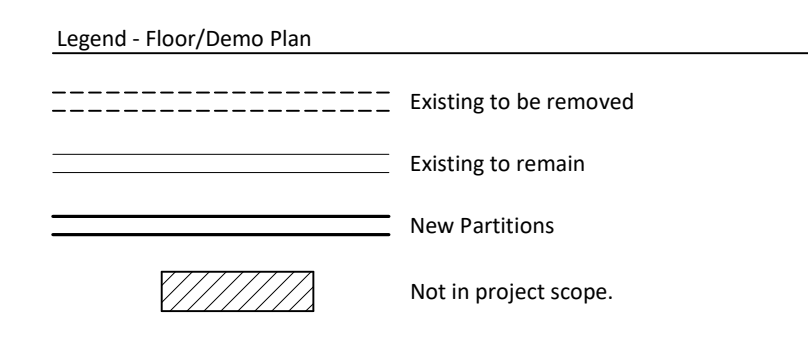
- General Notes**
- All dimensions are to face of gypsum board unless noted otherwise.
 - See 1 A-520 for Partition Type Schedule.
 - See 1 A-540 for Door Schedule.
 - All new partitions are type "B2S" unless noted otherwise.



Level 1 Floor Plan - West 1/4" = 1'-0" 3



- Keyed Notes:**
- Remove existing custom bookcase and modify to fit new ceiling height.
 - Remove walls as indicated.
 - Remove existing door, frame, and hardware. Salvage door and hardware for owner. Store as directed by owner.
 - Remove existing flooring and base. Prepare for new flooring and base.
 - Existing flooring to remain.



Demolition First Level - West 1/4" = 1'-0" 1

- Demolition Notes:**
- The Contractor shall be responsible for the protection against vandalism/unauthorized entry, etc. during the removal of and replacement of the interior envelope. Do not leave building components unprotected or uncovered after-hours.
 - Contractor to provide protection, as required during construction, at all remaining utilities (clean outs, gas valves, etc.).
 - Coordinate with Owner proper access and location for waste disposal and location of dumpsters.
 - Contractor to demolish and dispose of all items shown/needed to be removed, verify with owner items to be recycled. Items noted to be reused or returned to Owner shall be cleaned thoroughly by Contractor prior to storage or re-installation.
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 - The building will remain occupied during demolition/renovation. Contractor to coordinate shut-downs and tie-ins to all mechanical, electrical, plumbing, communications, fire alarms, and sprinkler systems to minimize disruptions to building occupants.
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 - Coordinate with Owner for removal of all cameras/readers/ etc.
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 - Contractor to make best effort to salvage doors, frames, hardware, etc. and confirm with O&M if they want warehouse salvaged items.
 - Contractor responsible to inspect existing conditions for all window frames and sills for damage including but not limited to scratches, cracks and dents.

Demolition Notes - West 1/2" = 1'-0" 26

Revisions

No.	Date	Description
1	07/08/2016	Issue for Construction
2	11/14/2016	Addendum 3

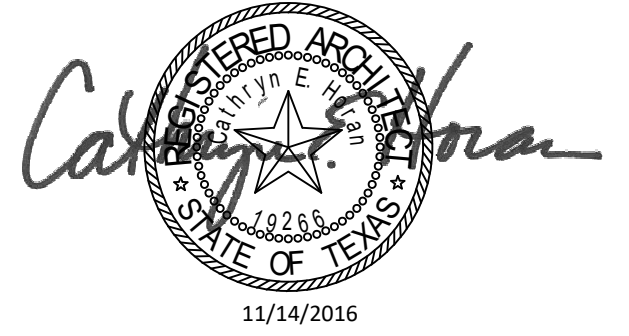
MSB 1st Floor Infill LRC 3 & 4



Floor Plan West

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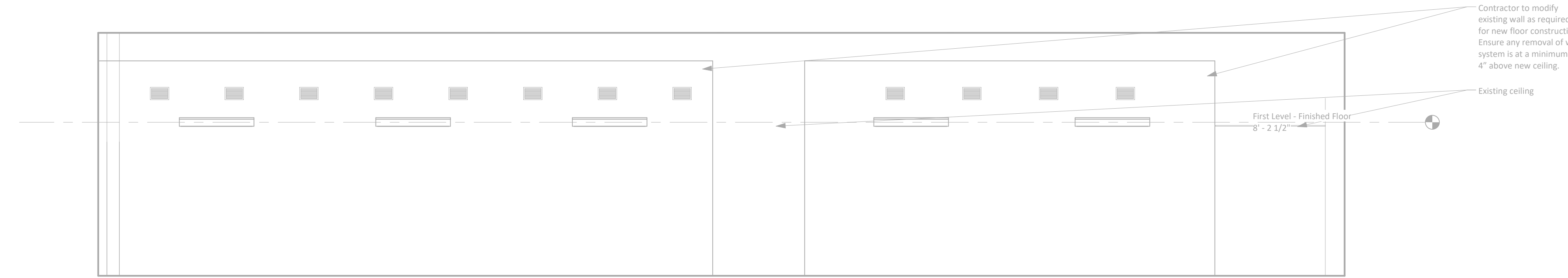
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P/W Commission Number: 214-198R
Sheet Number: A-111



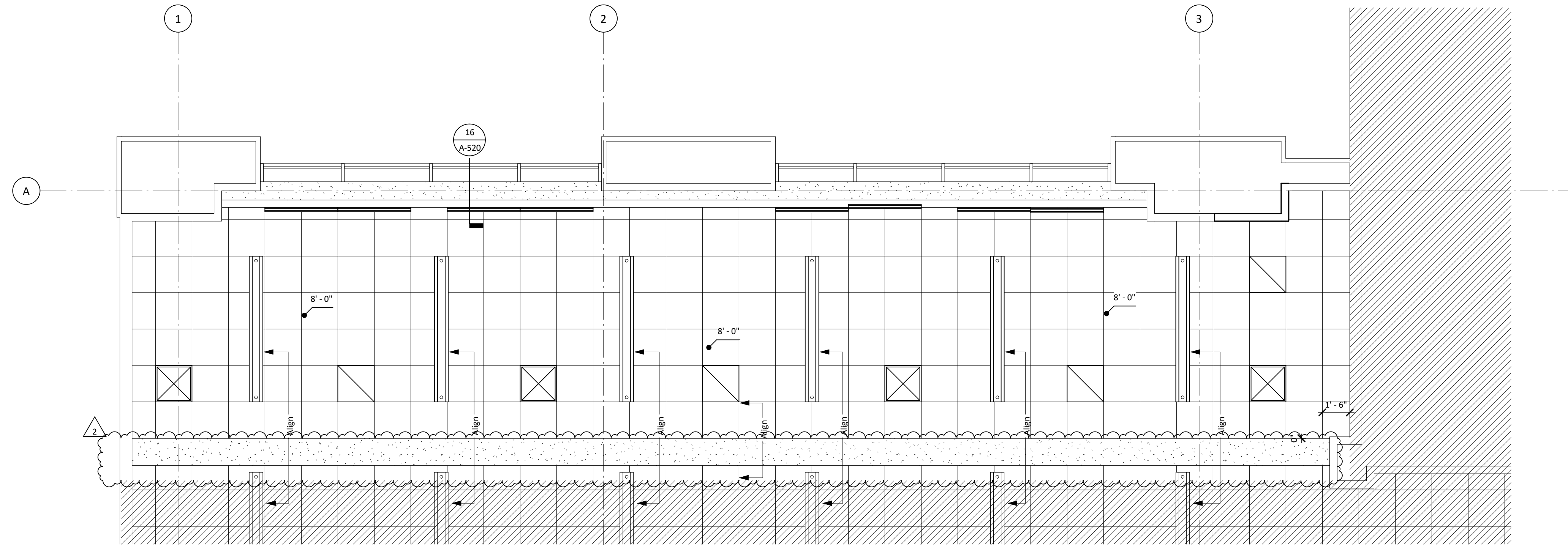
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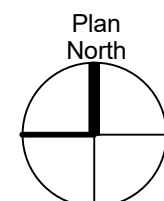
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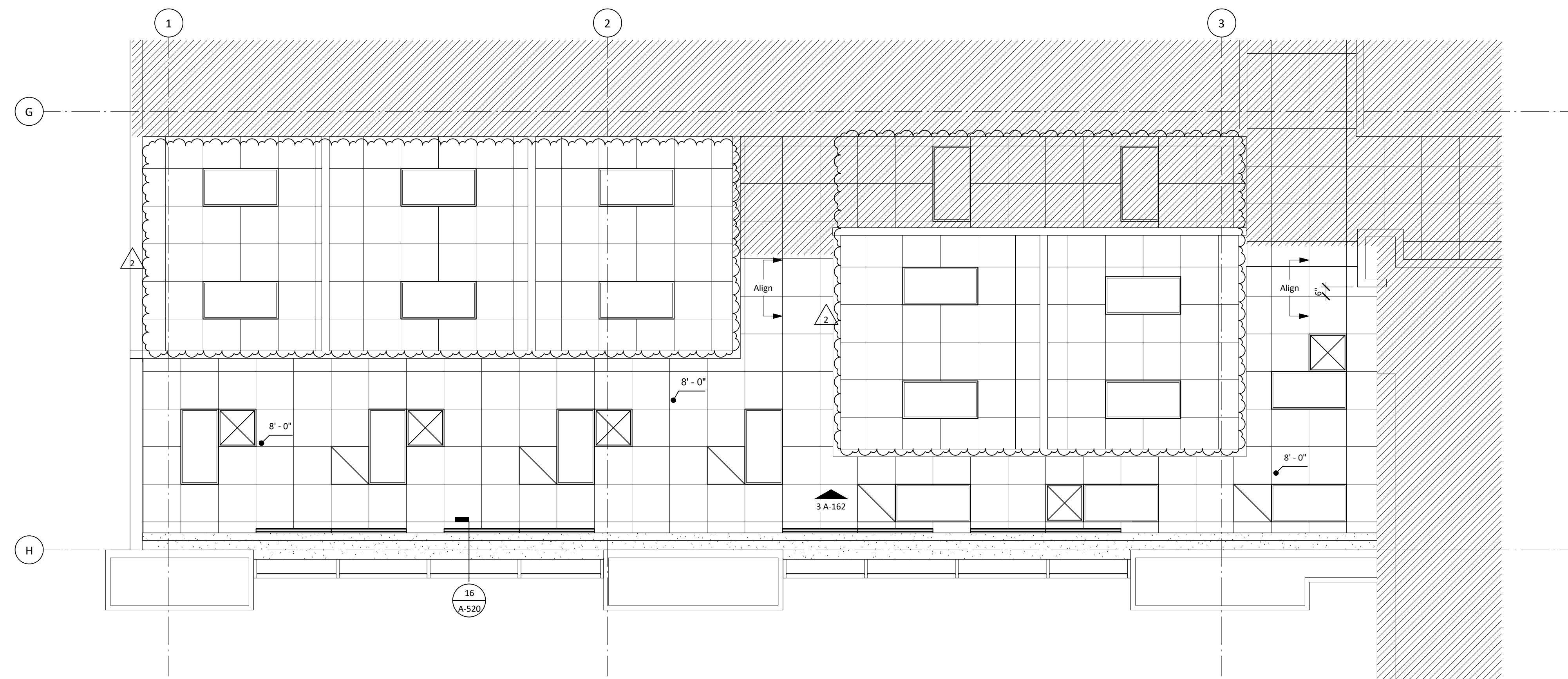
Study Lounge - Existing Elevation 1/4" = 1'-0" 3



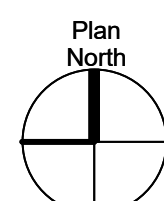
- General Notes**
- 1. All new ceilings to be 9'-0" a.f.f., unless noted otherwise. See Finish Schedule for types.
 - 2. Center all sprinkler heads and ceiling mounted devices in center of ceiling tile, unless noted otherwise.
- Legend - Reflected Ceiling Plan**
- [Hatched Box] New partition to structure. See 1 A-520 for partition schedule.
 - [Dotted Box] Not in project scope.



Ground Floor - RCP - East 1/4" = 1'-0" 2



- General Notes - Reflected Ceiling Plan**
- 1. All new ceilings to be 9'-0" a.f.f., unless noted otherwise. See Finish Schedule for types.
 - 2. Center all sprinkler heads and ceiling mounted devices in center of ceiling tile, unless noted otherwise.
- Legend - Reflected Ceiling Plan**
- [Hatched Box] New partition to structure. See 1 A-520 for partition schedule.
 - [Dotted Box] Not in project scope.



Ground Floor - RCP - West 1/4" = 1'-0" 1

MSB 1st Floor Infill LRC 3 & 4

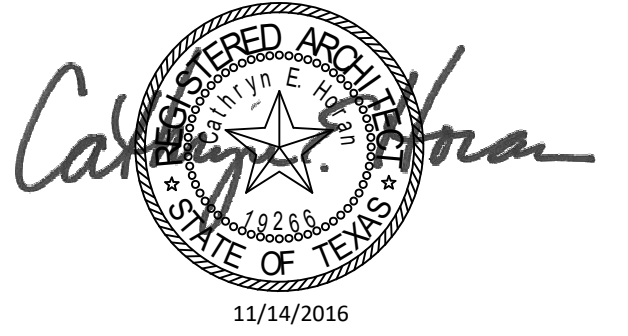


Reflected Ceiling Plans - Ground Level

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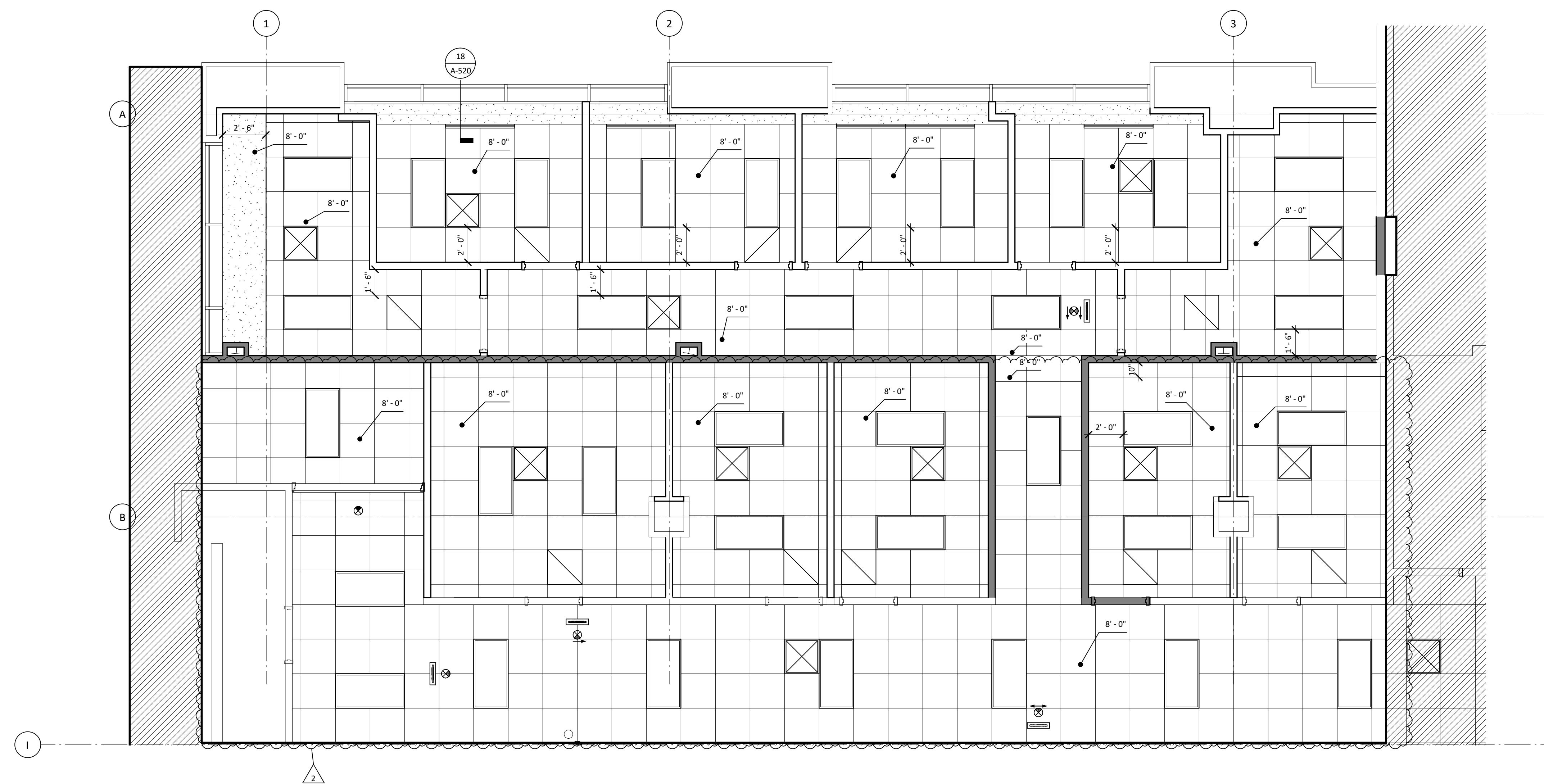
MEP Engineer

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Issues / Revisions

No.	Date	Description
1	07/08/2016	Issue for Construction
2	11/14/2016	Addendum 3



General Notes - Reflected Ceiling Plan

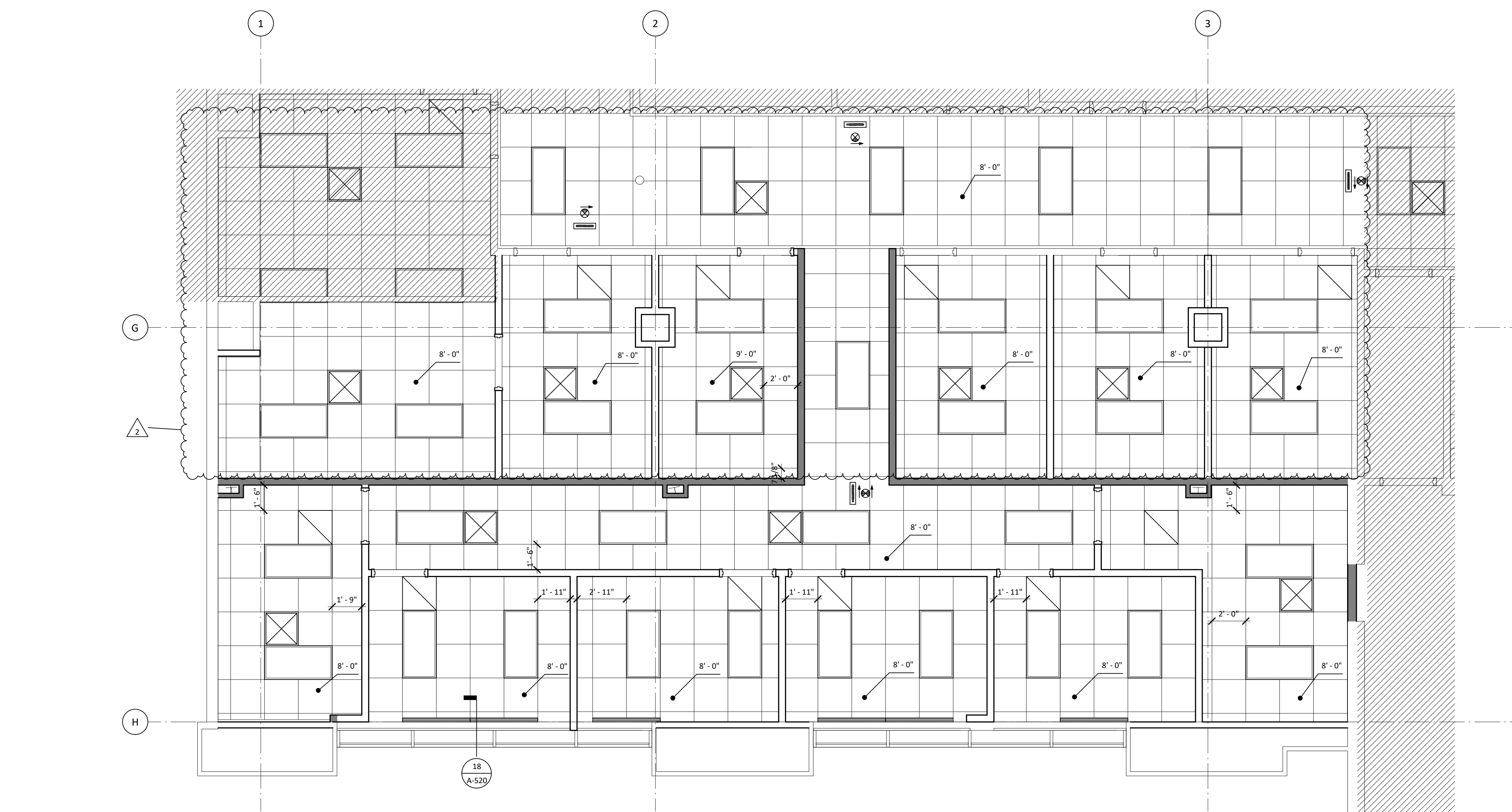
- All new ceilings to be 9'-0" a.f.f., unless noted otherwise. See Finish Schedule for types.
- Center all sprinkler heads and ceiling mounted devices in center of ceiling tile, unless noted otherwise.

Legend - Reflected Ceiling Plan

- New partition to structure. See 1 A-520 for partition schedule.
- Not in project scope.

Level 1 - Reflected Ceiling Plan - East

1/4" = 1'-0" 2



General Notes - Reflected Ceiling Plan

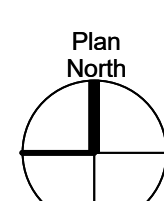
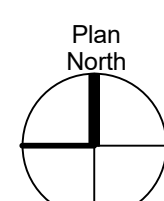
- All new ceilings to be 9'-0" a.f.f., unless noted otherwise. See Finish Schedule for types.
- Center all sprinkler heads and ceiling mounted devices in center of ceiling tile, unless noted otherwise.

Legend - Reflected Ceiling Plan

- New partition to structure. See 1 A-520 for partition schedule.
- Not in project scope.

Level 1 - Reflected Ceiling Plan - West

1/4" = 1'-0" 1



MSB 1st Floor Infill LRC 3 & 4



Reflected Ceiling Plans - Level 1

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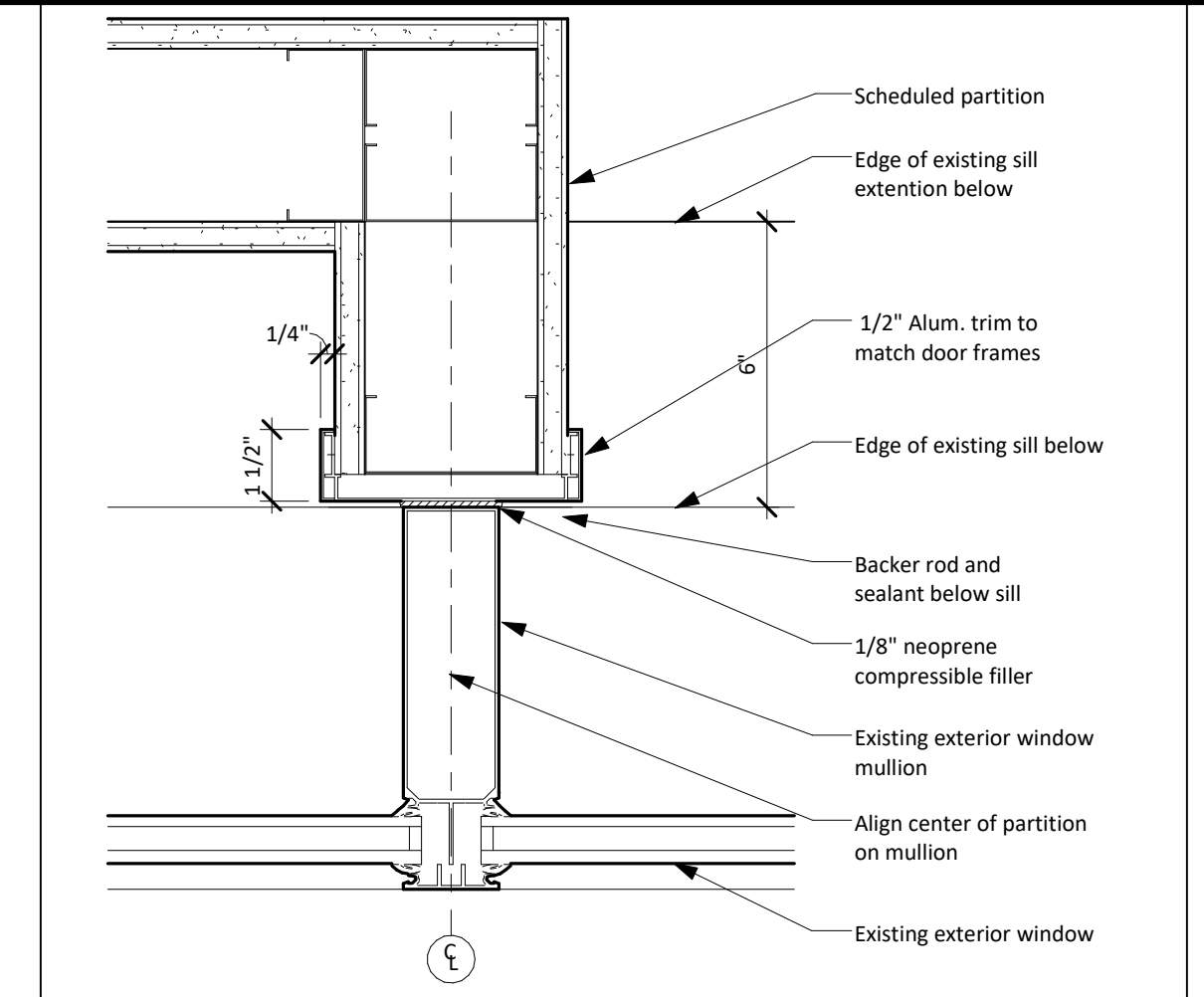
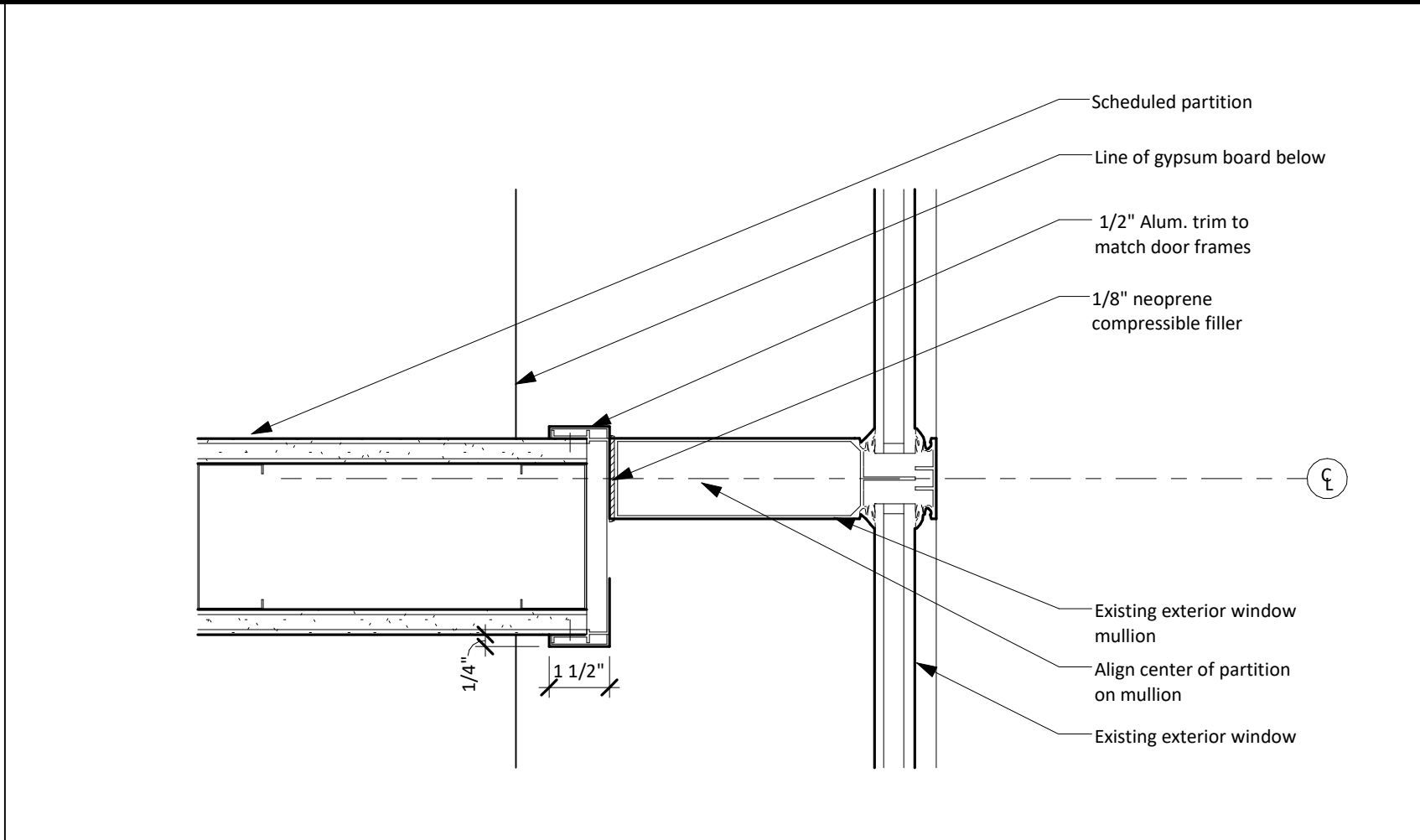
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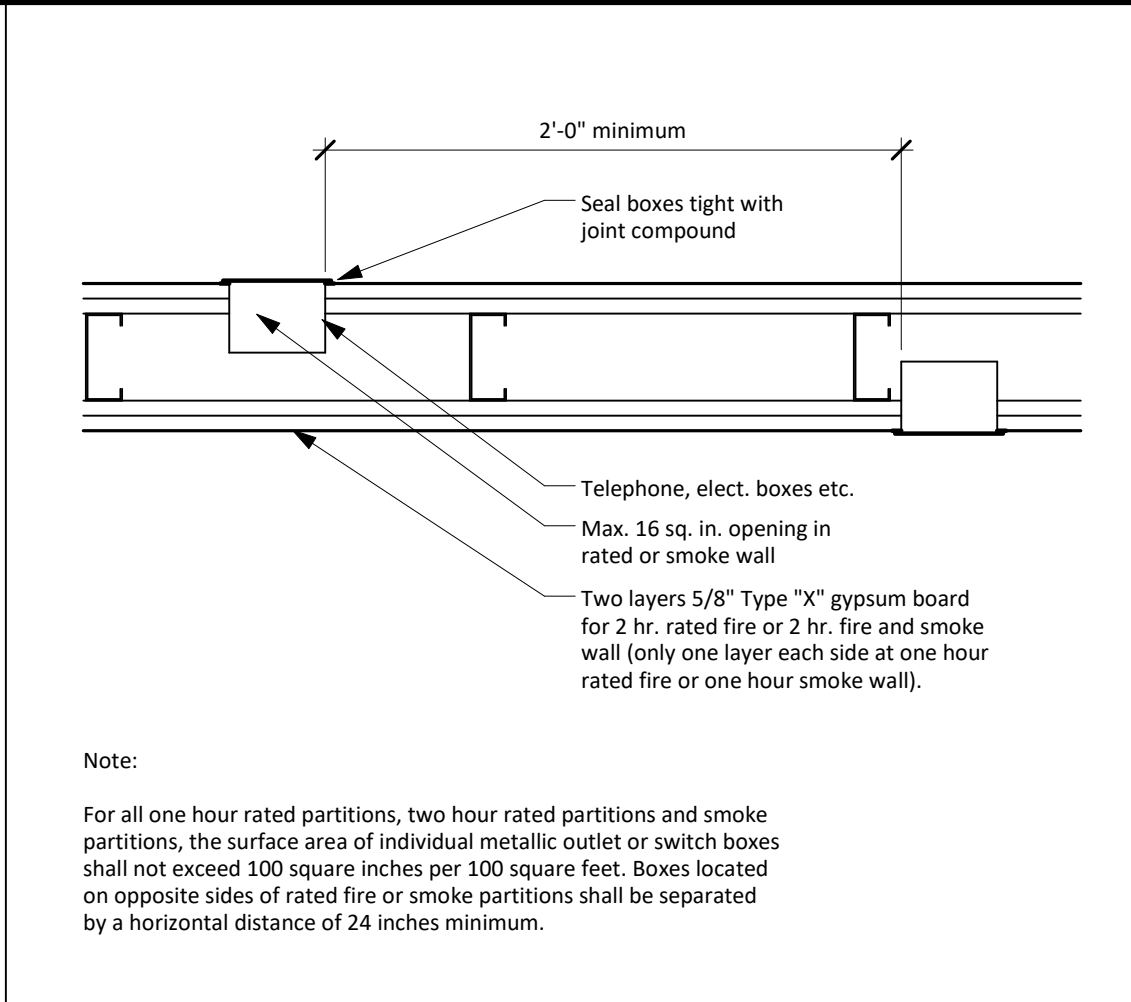
A-164

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Wall Priority Legend	
2-hour fire and smoke barrier wall:	Priority 1 (Highest)
2-hour fire wall:	Priority 2
1-hour fire and smoke barrier wall:	Priority 3
1-hour fire wall:	Priority 4
Non-rated wall:	Priority 5 (Lowest)

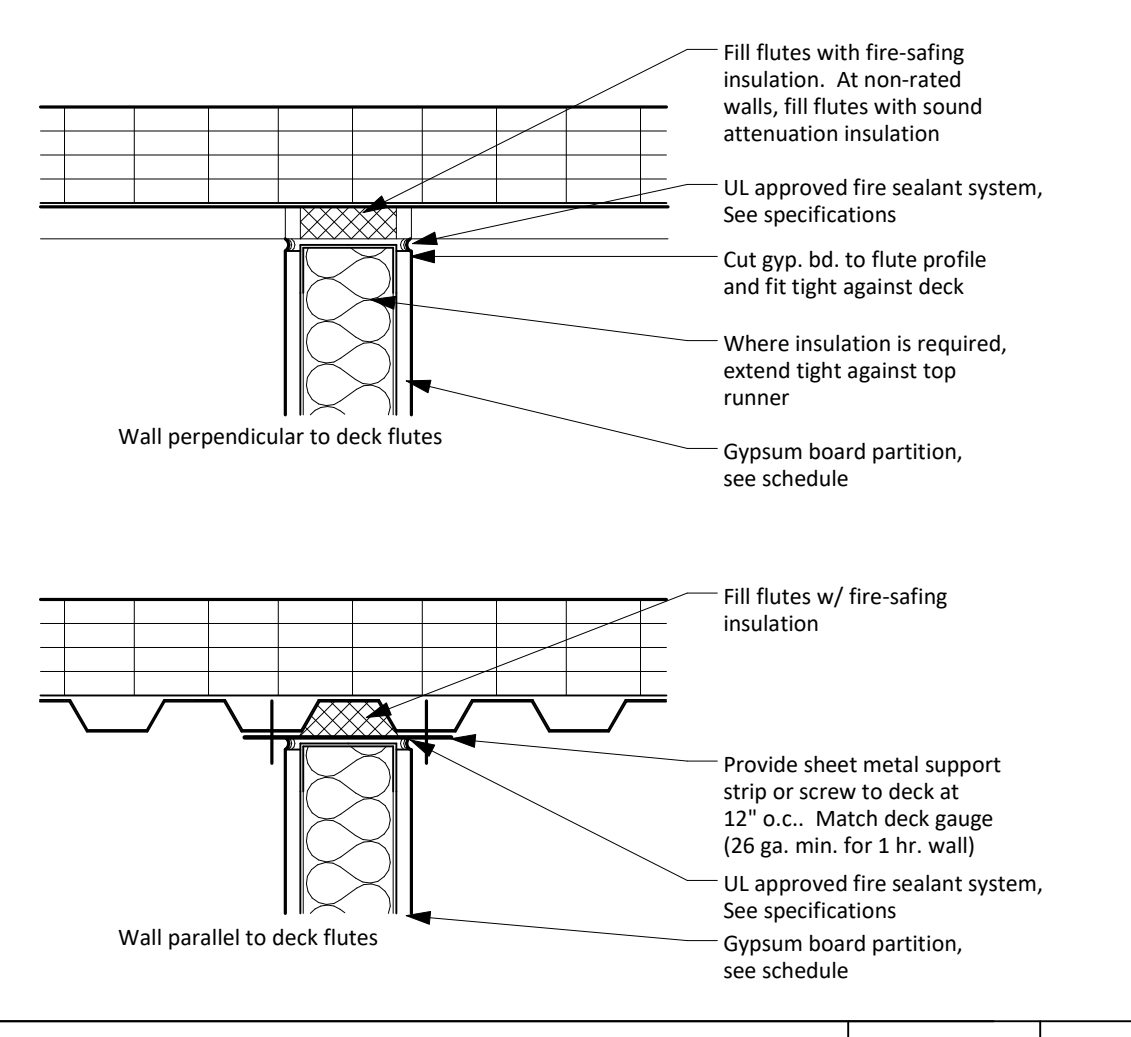
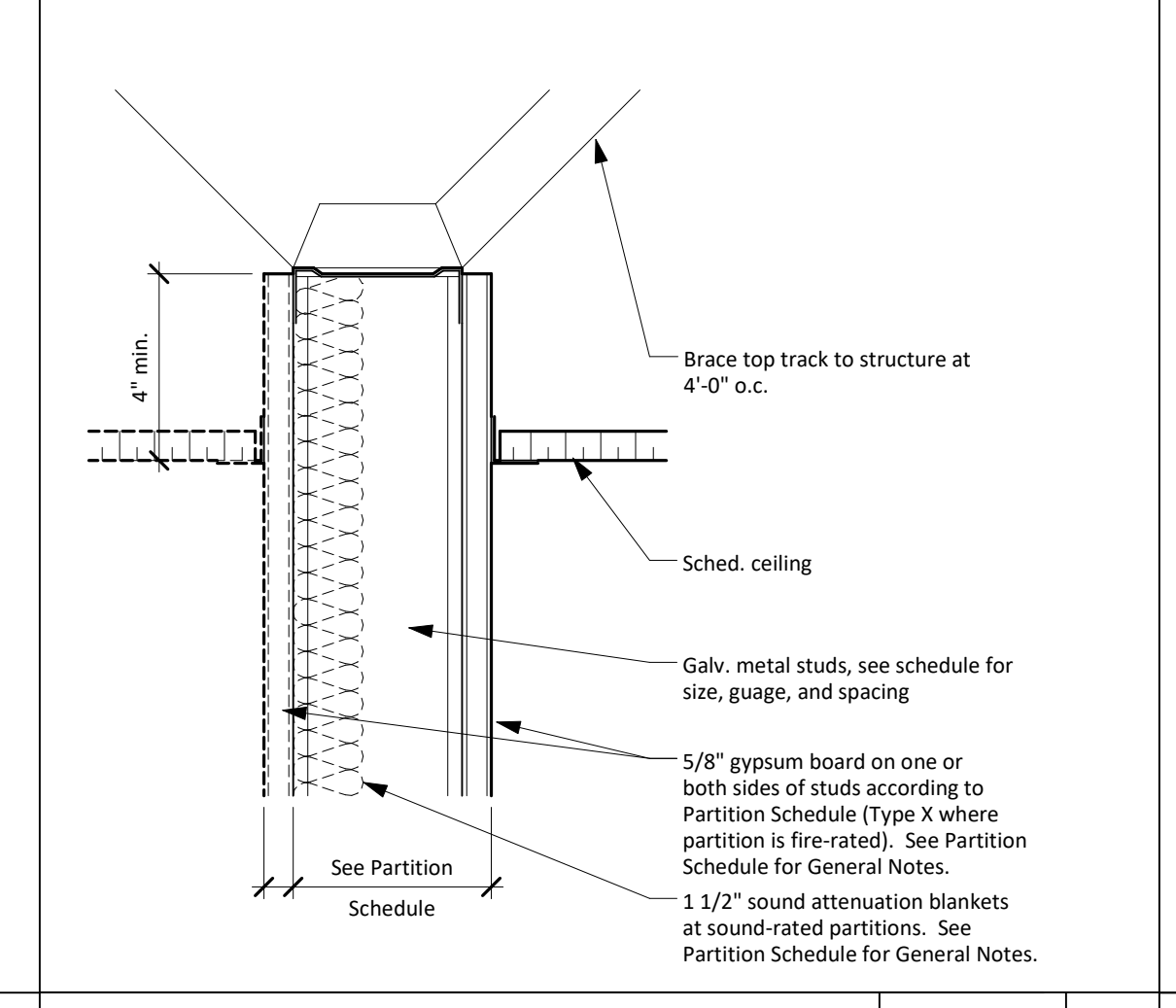
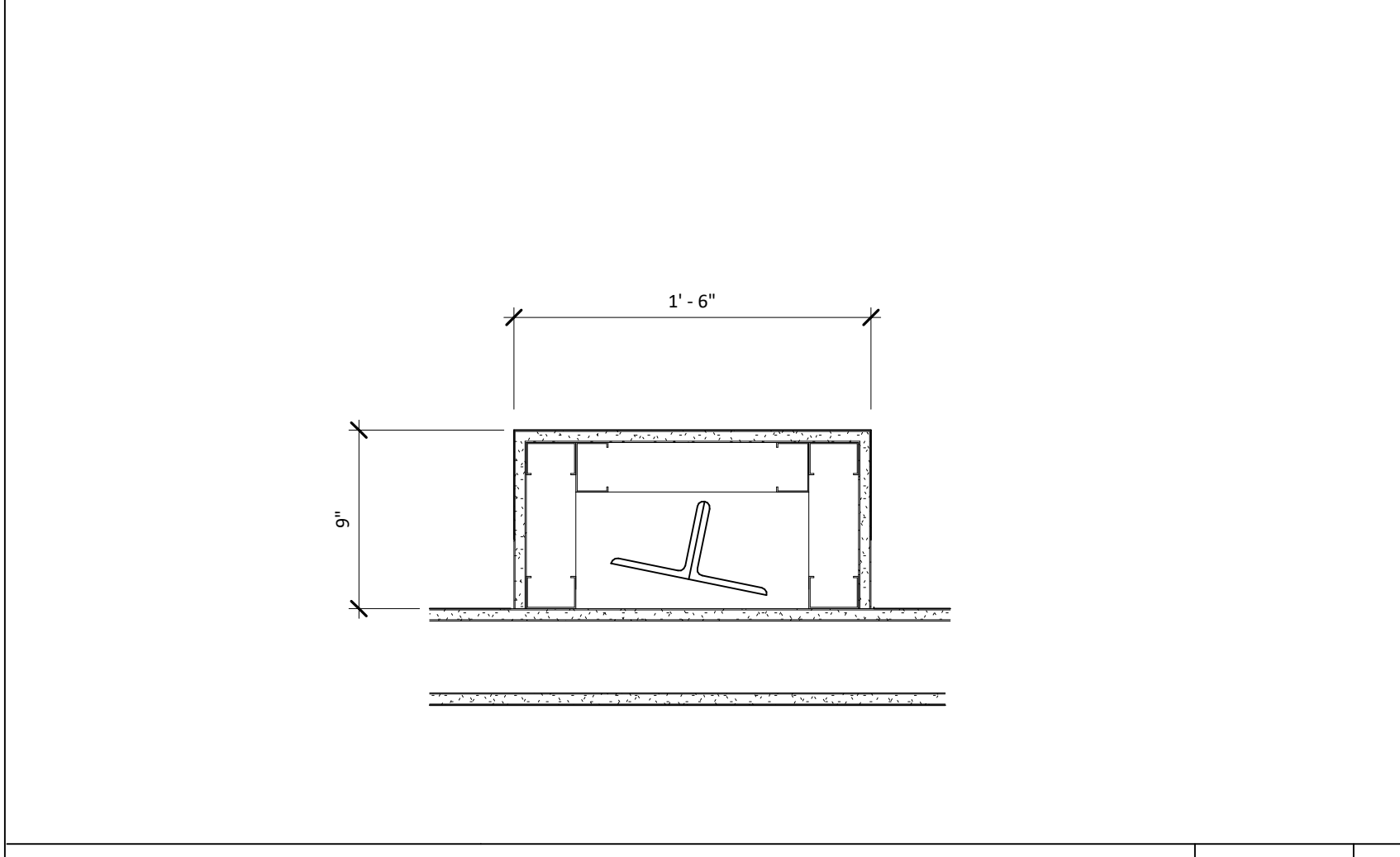


Partition at Mullion Detail 3" x 1'-0" 20

Partition at Mullion Detail 3" x 1'-0" 15

Wall Priority Legend N.T.S. 10

Metallic Boxes in Smoke and Fire-Rated Walls N.T.S. 5

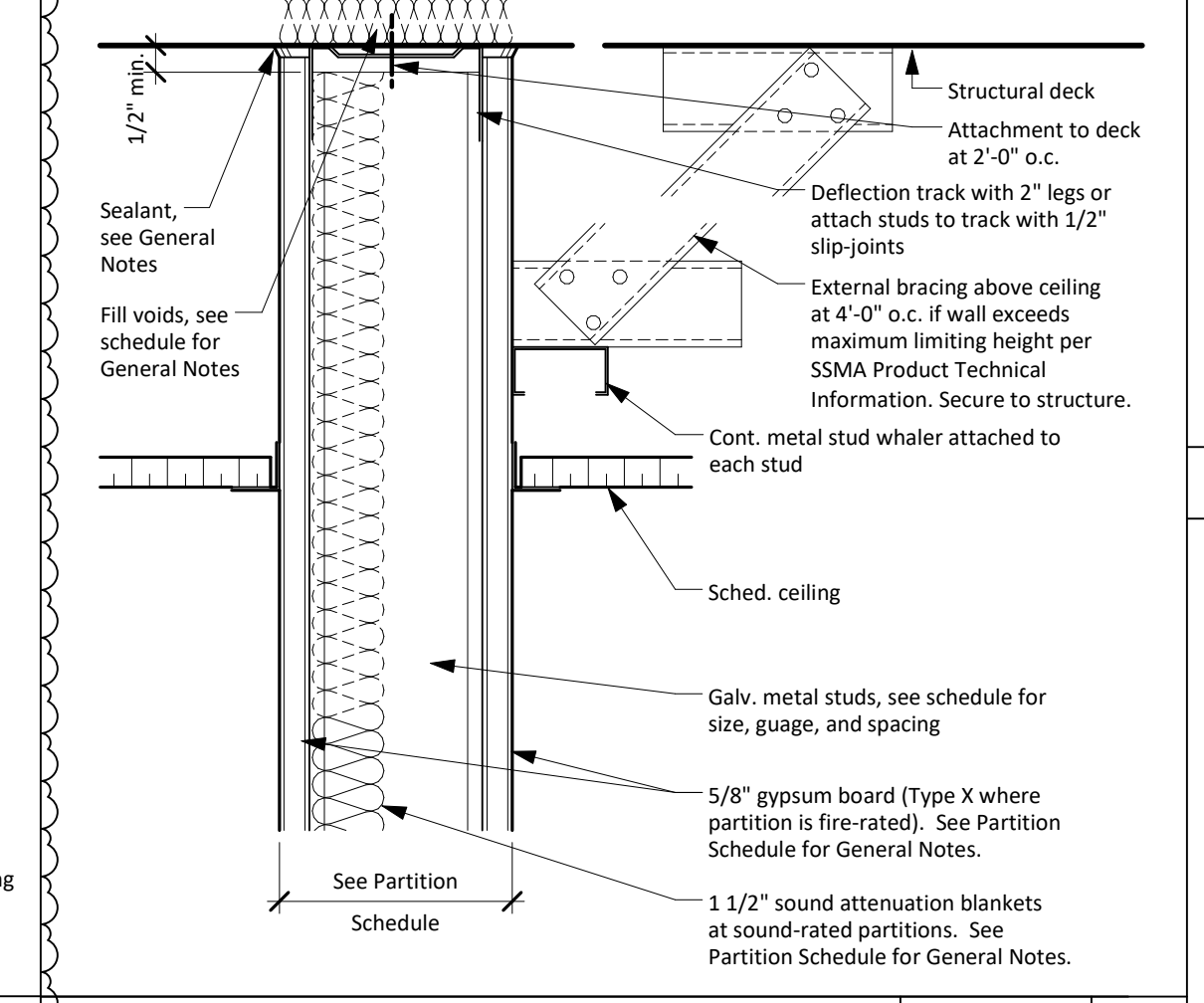
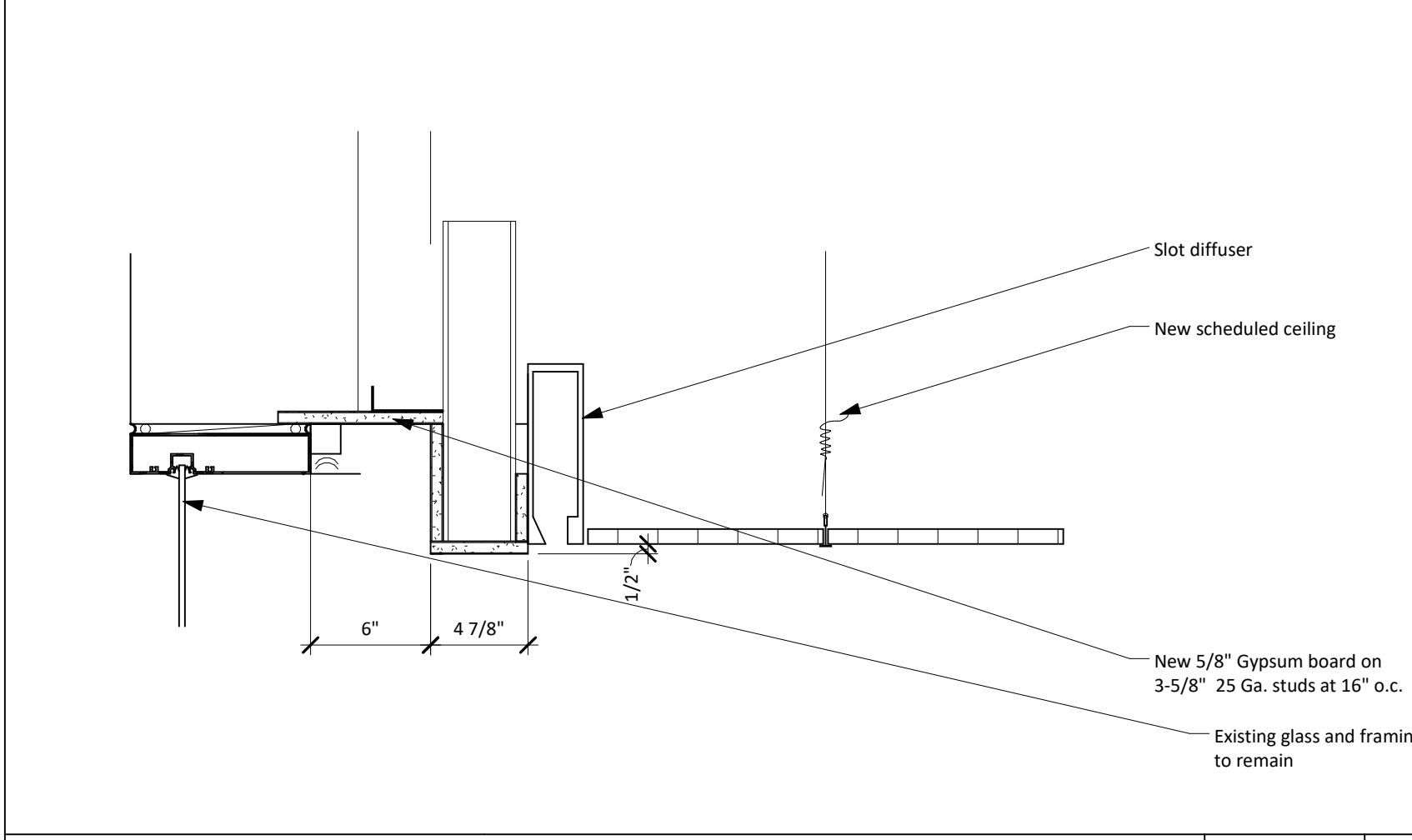
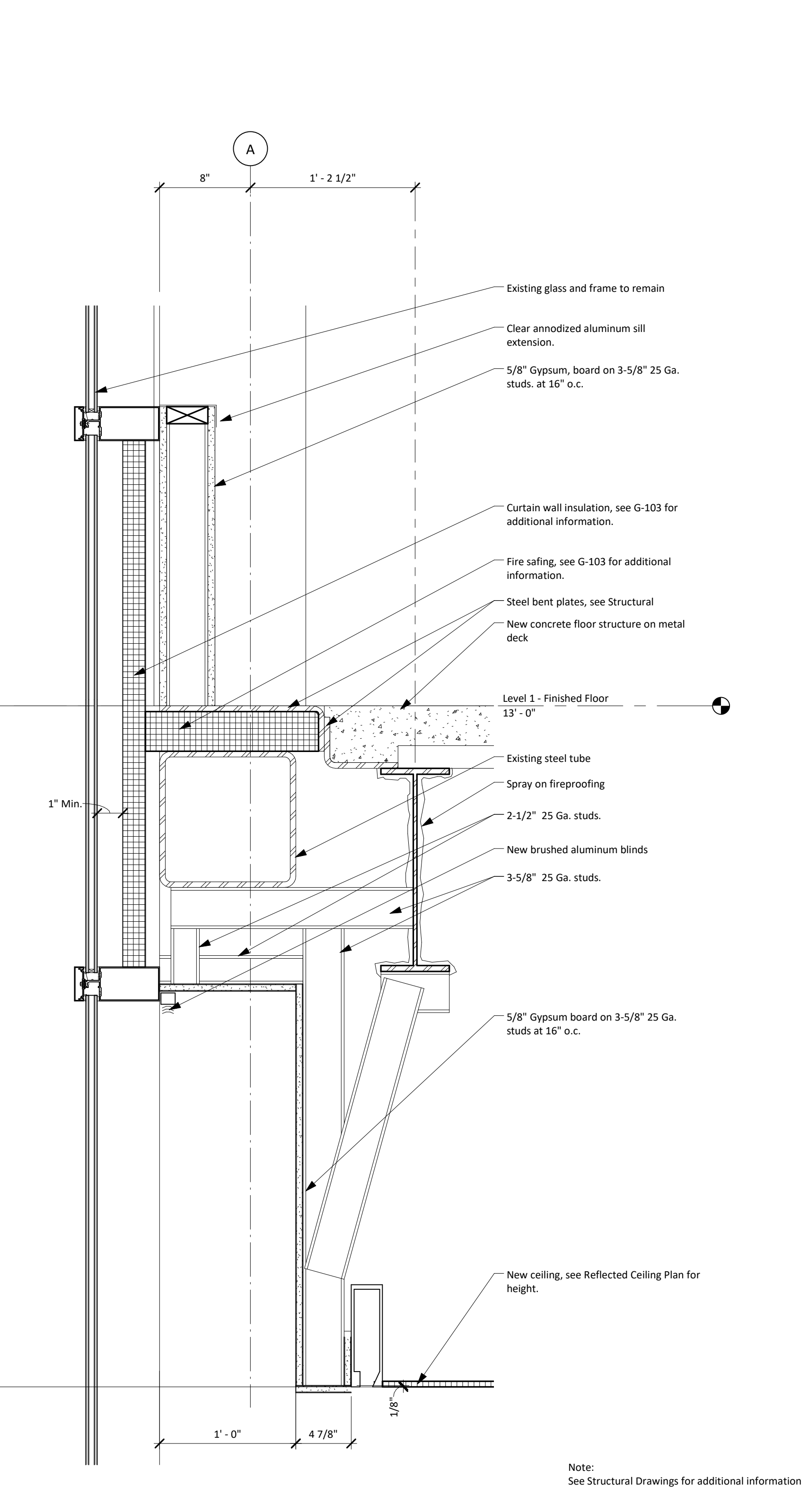


Enlarged Plan - Steel Hanger Furr-out Detail 1 1/2" x 1'-0" 19

Partition at Ceiling N.T.S. 14

Gypsum Board Partitions at Fluted Metal Deck N.T.S. 9

Typical Partition Details N.T.S. 4



X-HOUR FIRE AND SMOKE BARRIER PROTECT ALL OPENINGS

Paint the following identification above the ceiling, at four-foot intervals, on both sides of all fire-rated walls, demising walls, area separation walls, and smoke compartment walls. Typeface shall be in 2" high letters in bright orange or red paint. Substitute the the hour-rating of the partition for the letter "X" shown below. Omit the words "AND SMOKE" for partitions that are fire barriers only. Stenciling is acceptable:

Labeling for Smoke and Fire Walls	
Design Diagram	B C E P
Structure	
Ceiling	
Floor	

Fig. 81. One Side Only, Reflect Above Fin. Ceiling.

Partition Type Schedule														
Type Mark	Description	Thickness	Stud/Block Size	Stud Thickness (mil)	Stud Spacing	Limiting Height	Fire Rating	Design No.	STC	Section at Floor	Plan	Ceiling/Structure	Design Test	Notes
B2S	Partition to 4" above ceiling	4 7/8"	3 5/8"	18	2'-0"	13'-5"	-	-	47	11 A-520	12 A-520	15 A-520	-	-
C	Stud Wall to structure	5"	-	-	-	-	-	-	-	-	-	-	-	-
C2	Partition to structure (non-rated)	4 7/8"	3 5/8"	18	2'-0"	13'-5"	-	-	40	11 A-520	12 A-520	13 A-520	-	-
C2S	Partition to structure (non-rated)	4 7/8"	3 5/8"	18	2'-0"	13'-5"	-	-	47	11 A-520	12 A-520	13 A-520	-	-
E2	Partition to structure (2-hour rated)	6 1/8"	3 5/8"	30	1'-4"	15'-8"	2-Hour	UL U411	48	16 A-540	17 A-540	18 A-540	-	-
P1	One-sided partition to 4" above ceiling	3 1/2"	2 1/2"	18	1'-4"	0"	-	-	N/A	11 A-520	12 A-520	15 A-520	-	-
P2	One-sided partition to 4" above ceiling	4 1/4"	3 5/8"	18	2'-0"	0"	-	-	N/A	11 A-520	12 A-520	15 A-520	-	-

Fire Safing at Steel Tube - Detail 1 1/2" x 1'-0" 21

New Floor at Existing Curtainwall Detail - West 1 1/2" x 1'-0" 16

Partition at Floor N.T.S. 11

General Notes

- All interior partitions are Type B2 unless noted otherwise.
- Allowable deflection for all partitions shall be L/240 with a horizontal load of 5 psf, except as noted in individual partition types. The Contractor shall decrease the stud spacing or increase the stud thickness noted to insure partitions forming the substrate for brittle finishes such as ceramic tile meet an allowable deflection criteria of L/360 with a horizontal load of 5 psf.
- Where partitions are noted to be fire-rated:
 - Provide 5/8" Type X fire-resistive gypsum board.
 - Where partitions meet fluted metal deck or similarly irregular surfaces, seal the partition with safining insulation and sealant as shown in detail 9 A-520 and in accordance with the reference design.
- Sound-Rated Partitions:
 - Sound-rated partitions and partitions with thermal insulation are indicated with the suffix "S" (Example: A1S). Refer to the floor plans for locations.
 - Provide 1-1/2" thick, glass-fiber sound attenuation blankets unless noted otherwise.
 - Fill all deck voids or similarly irregular surfaces, with insulation and sealant as shown in detail 9 A-520.
 - Seal partition perimeter and all penetrations with acoustical sealant or tape and insulation to fill voids.
 - Arrange back-boxes for electrical, data, telephone, and other outlets as shown in detail 4 A-520.
 - Where sound-rated partitions are also fire-rated, seal partition and fill voids as required for fire rating.
- Nails shall comply with ASTM F 547 or ASTM C514. Screws shall meet the requirements of ASTM C 1002 or ASTM C 954.
- Unless otherwise required by reference designs for fire-rated partitions, fasteners shall be spaced 8" o.c. along at vertical joints and 12" o.c. at floor and ceiling runners and intermediate studs. Space all fasteners in panels that are substrates for brittle finishes, such as ceramic tile or stone, a maximum of 8" o.c.
- Joints in multi-layer gypsum board partitions shall be staggered 24" on each side and on opposite sides.
- Metallic outlet boxes shall be permitted to be installed in walls or partitions classified as having a fire-resistance of two-hours or less. The surface area of individual boxes shall not exceed 16 square inches. The aggregate surface area of the boxes shall not exceed 100 square inches in any 100 square feet. Boxes located on opposite sides of walls or partitions shall be separated by a minimum horizontal distance of 24 inches. See detail 5 A-520.
- Fiberglass mat faced, silicified gypsum-core boards shall be installed over or as part of the fire-resistance rated system in shower and tub areas to receive brittle finishes such as ceramic tile or plastic finished wall panels. When fire or sound ratings are indicated, the gypsum board required for the rating shall extend down to the floor behind fixtures.
- Label all fire-rated and smoke compartment walls or partitions above finished ceiling as shown on detail 3 A-520.
- Install penetration seals at all penetrations through fire-rated and smoke compartment walls or partitions in accordance with Specifications Section 07 84.00. See details 16, 17, 19, 21, 23, 26, and 28 G-102 for reference designs of penetration seal systems based upon the penetrating element.
- Accurately align new and existing partitions in the same plane when shown on the Floor Plans. See detail 4 A-520.
- Maintain the fire or sound rating of partitions at all intersections. Maintain the construction of the highest rated partition where partitions of two different ratings meet. See the Wall Priority Legend - detail 10 A-520.

Partition Type Legend and Schedule

Fire Safing at Steel Tube - Detail 1 1/2" x 1'-0" 21

New Floor at Existing Curtainwall Detail - West 1 1/2" x 1'-0" 16

Partition at Floor N.T.S. 11

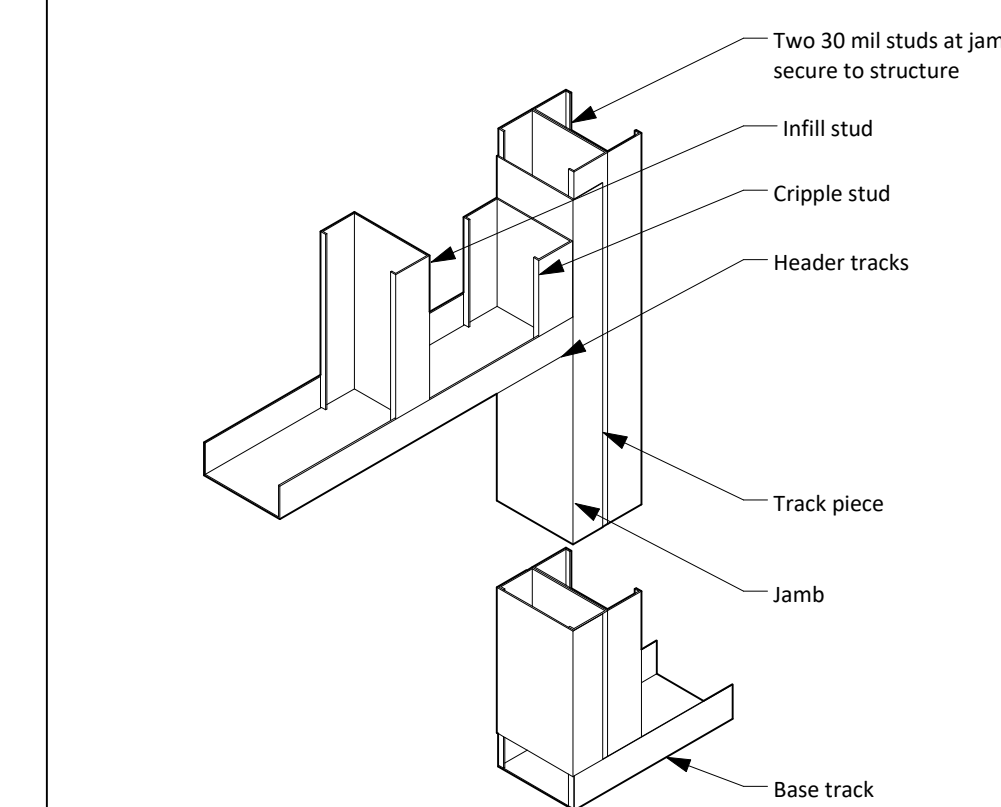
Partition Type Legend and Schedule 1

No.	Date	Description
1	07/08/2016	Issue for Construction
2	11/14/2016	Addendum 3

MSB 1st Floor Infill LRC 3 & 4



Partition Types and Interior Construction Details



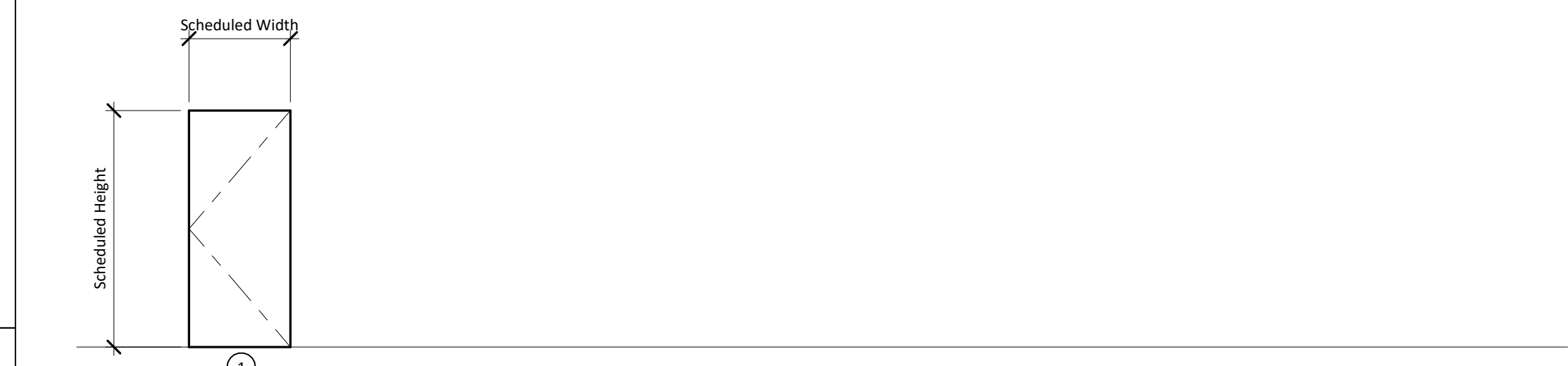
Typical Framing at Opening N.T.S. 5

Type Mark	Description	Manufacturer	Pattern/Line	Color	Notes
Floors					
CPT1	Carpet	Interface Flooring	Furrows II	9214 Georgia Clay	
VCT1	Vinyl composition tile	Armstrong	Imperial Texture	51810 Washed Linen	
Base					
RBC	Rubber base, cove	Roppe		P193 Black/Brown	
Walls					
PT1	Paint	Sherwin Williams	Semi-gloss	SW 7043 Worldly Gray	
Ceilings					
ACT2	Acoustical ceiling tile, 2' X 2'	Armstrong	Fine Fieured	11732	
Misc/Trim					
	NO MATERIAL				
Millwork					
	NO MATERIAL				
Doors					
WV	Wood Veneer	VT Industries	Red Oak Veneer	Alpine AL07	
Frames					
FPT1	Paint (frame)		Match color of existing door frame paint		Match color of existing door frame paint

Finish Material Schedule 3

Finish Type Mark	Floor	Base	Wall	Ceiling	Misc/Trim	Door	Frame	Notes
F1	CPT1	RBC	PT1	ACT2	-	WV	FPT1	
F2	VCT1	RBC	PT1	ACT2	-	WV	FPT1	
F13	CPT2	RBS	PT1	ACT2	-	WV	FPT1	
F14	Default Floor	RBS	PT1	ACT2	-	WV	FPT1	

Room Finish Type Schedule 2



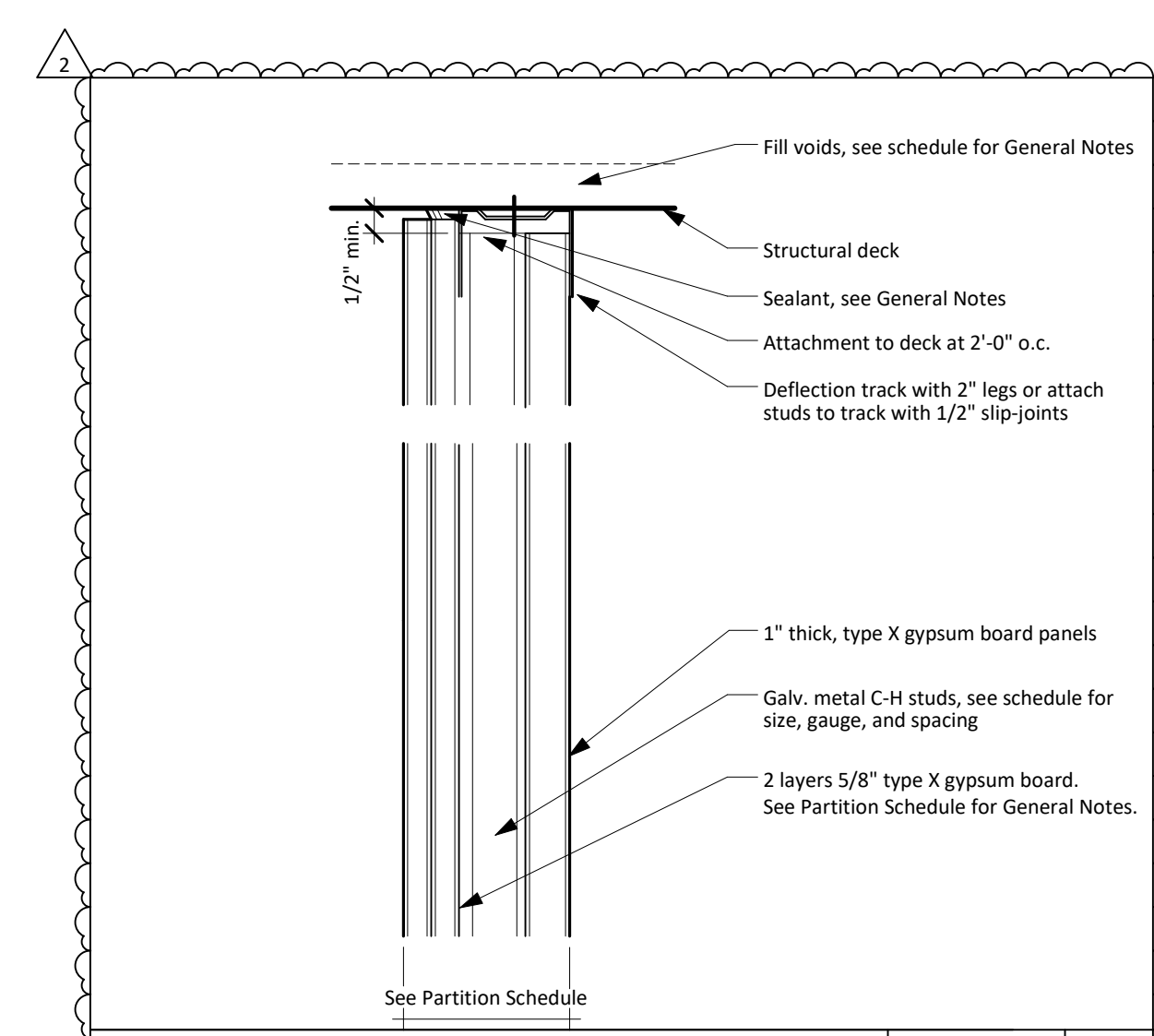
Type	Description	Door				Frame				Fire Rating (min.)	Notes			
		Width	Height	Thick.	Elev. No.	Sill Detail	Jamb Detail(s)	Head Detail						
A00	Interior flush door	3'-0"	7'-0"	1 3/4"	1	Wood	DPL1	Steel	FPT1	11 A-540	12 A-540	13 A-540	-	
None	Interior double egress narrow lite doors	7'-4"	7'-0"	1 3/4"	12	Wood	DPL1	Steel	FPT1	16 A-540	18 A-540	17 A-540	-	

General Notes
1. See detail S A-540 for stud framing around door opening.

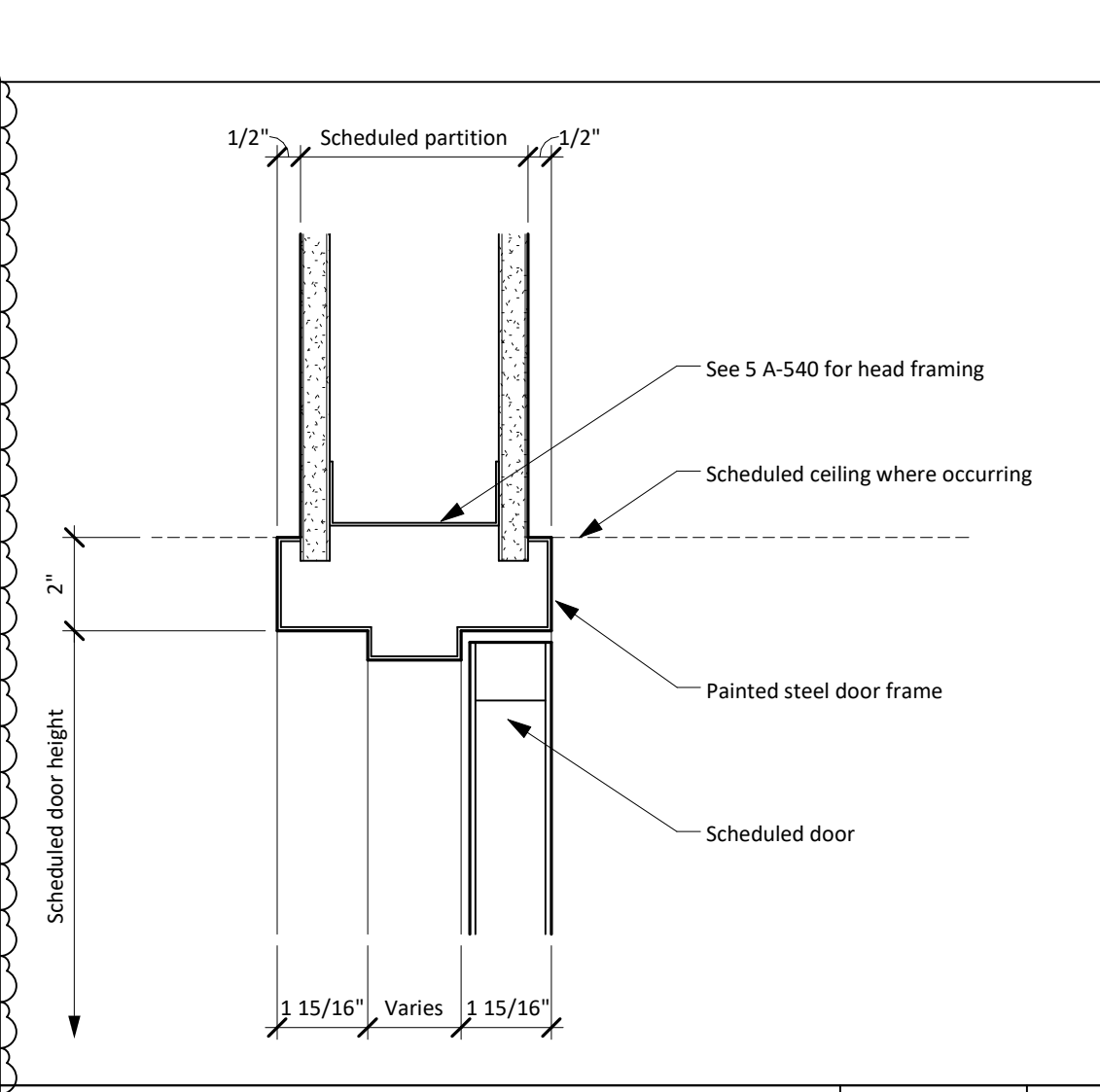
HW SET-01 Office

Item	Description	Quantity	Unit	Notes
-3 EA	Hinge	4 1/2"x4 1/2" TA2714	652	MCK
-1 EA	Entrance Lock	93K7AB14DS3-626		BES
-1 EA	FSC Core Only			
-1 EA	Door Stop	406	630	RCK
-3 EA	Silencers	609		Grey RCK

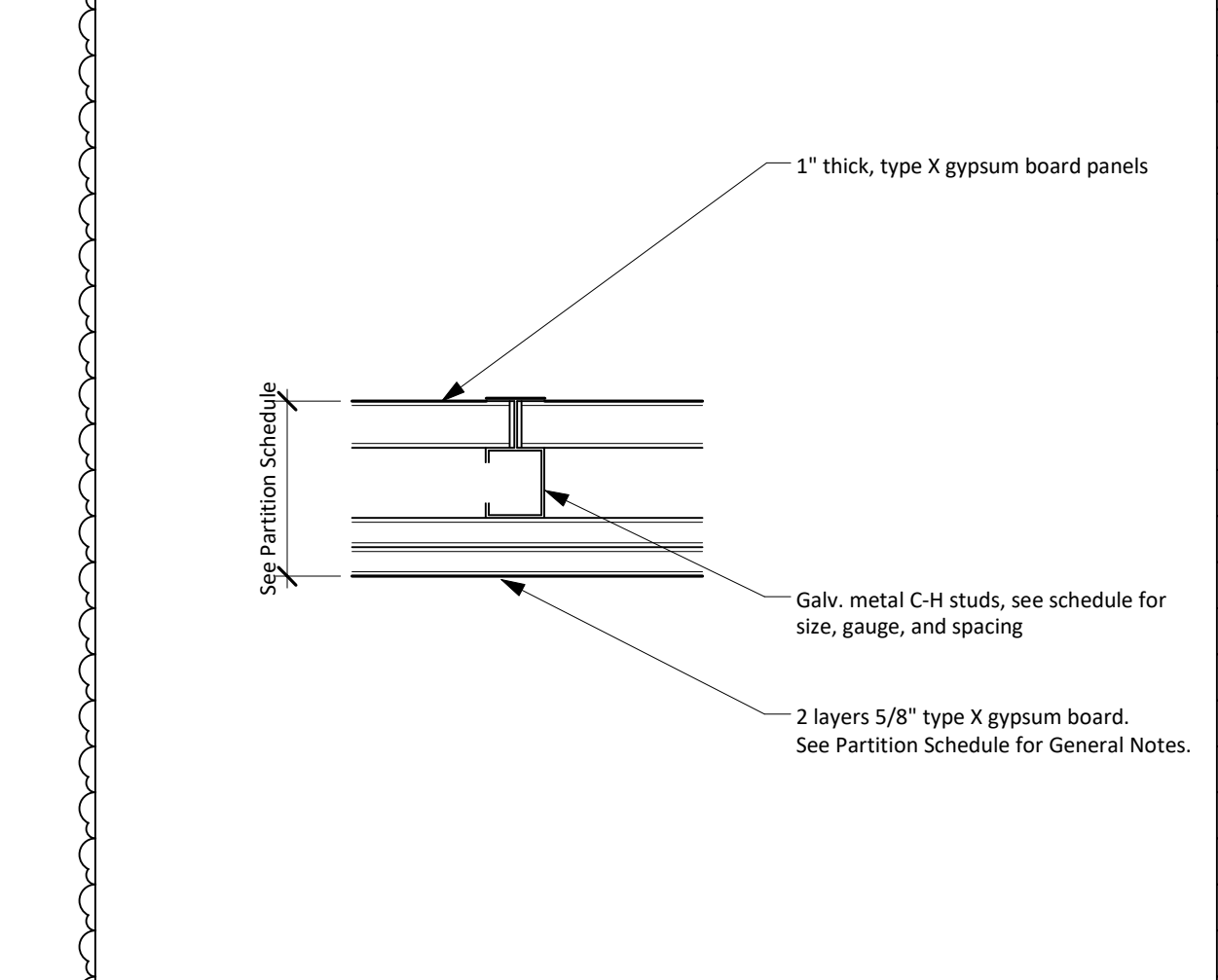
Door Type Schedule 1



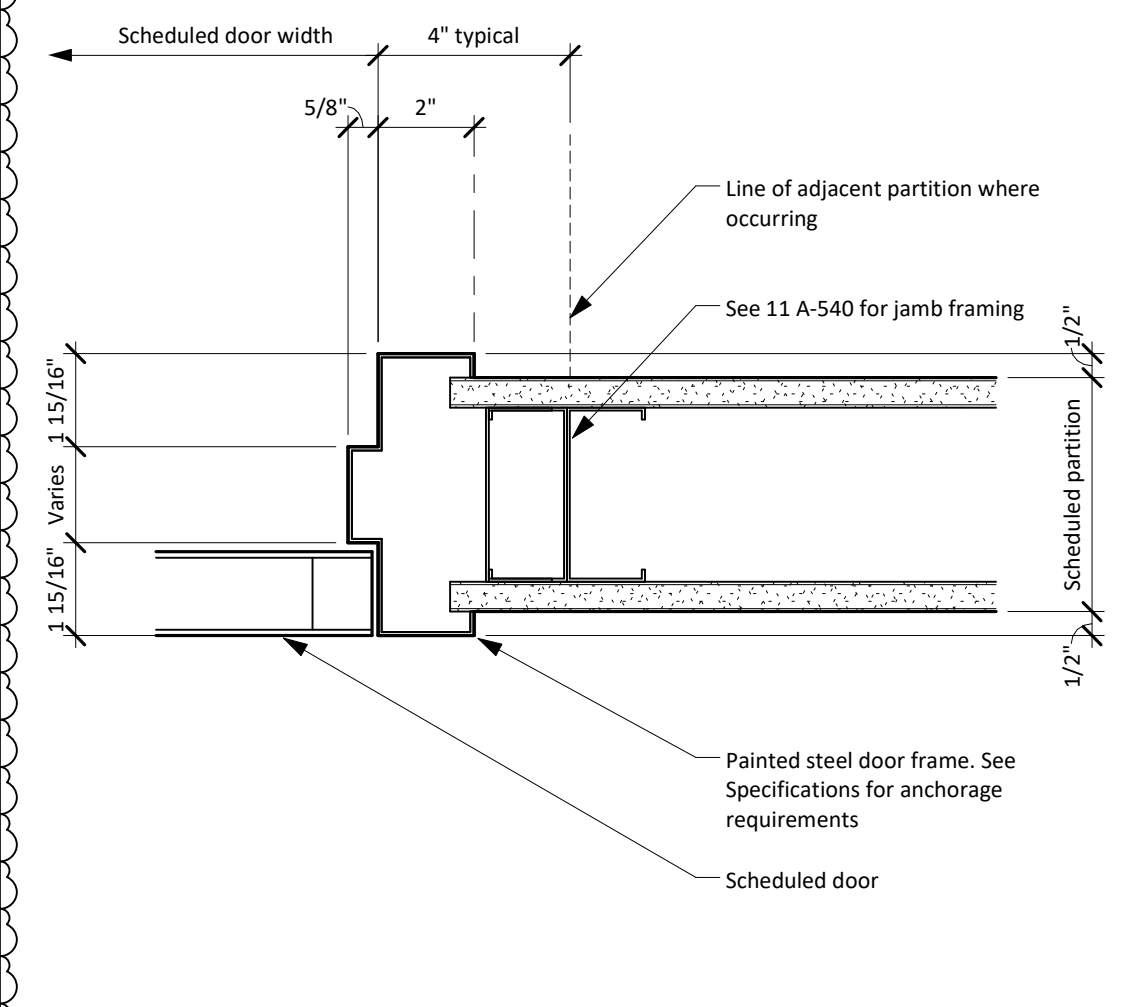
Partition at Ceiling/ Structural Deck 12' = 1'-0" 18



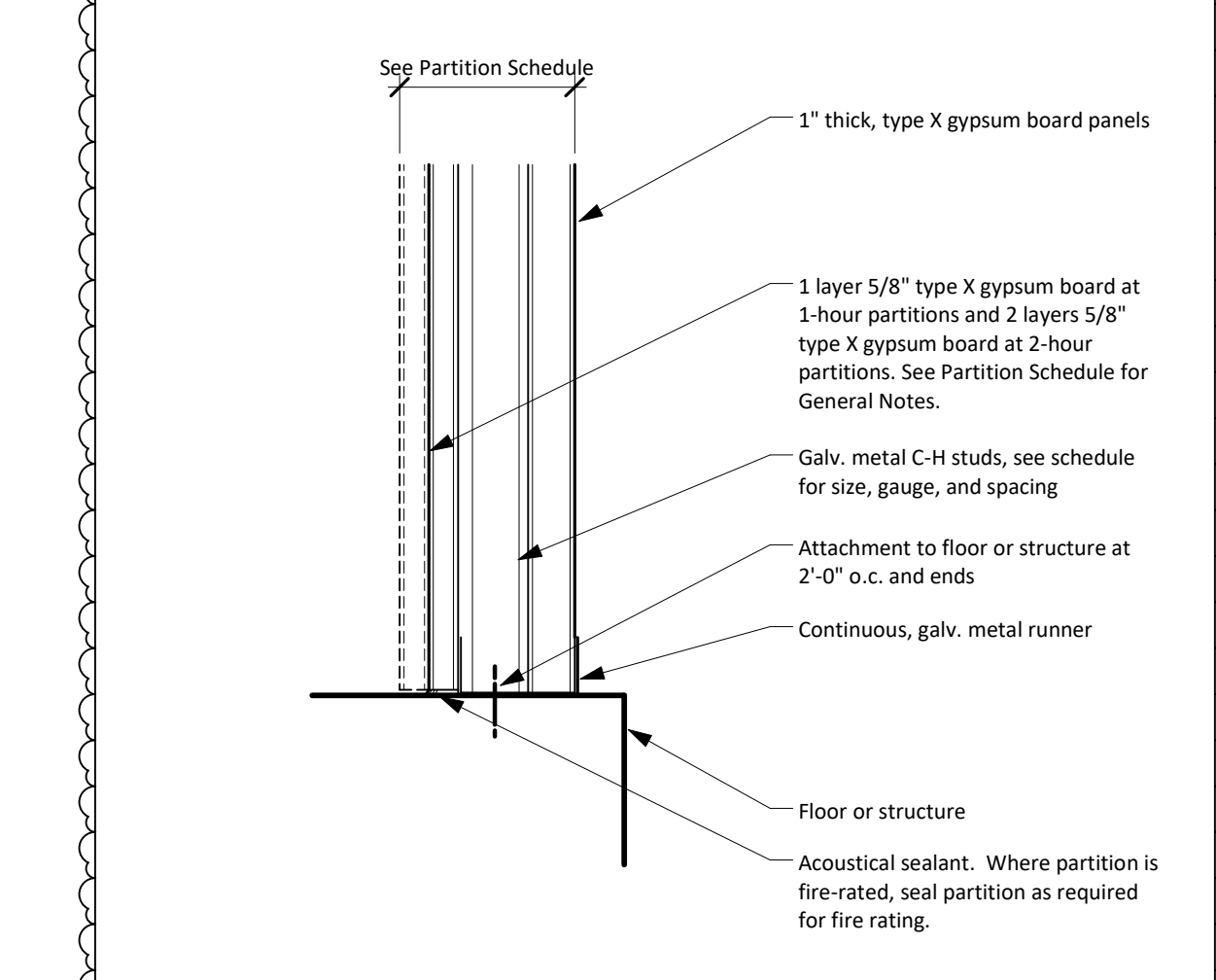
Head at Interior Steel Door Frame 3' = 1'-0" 13



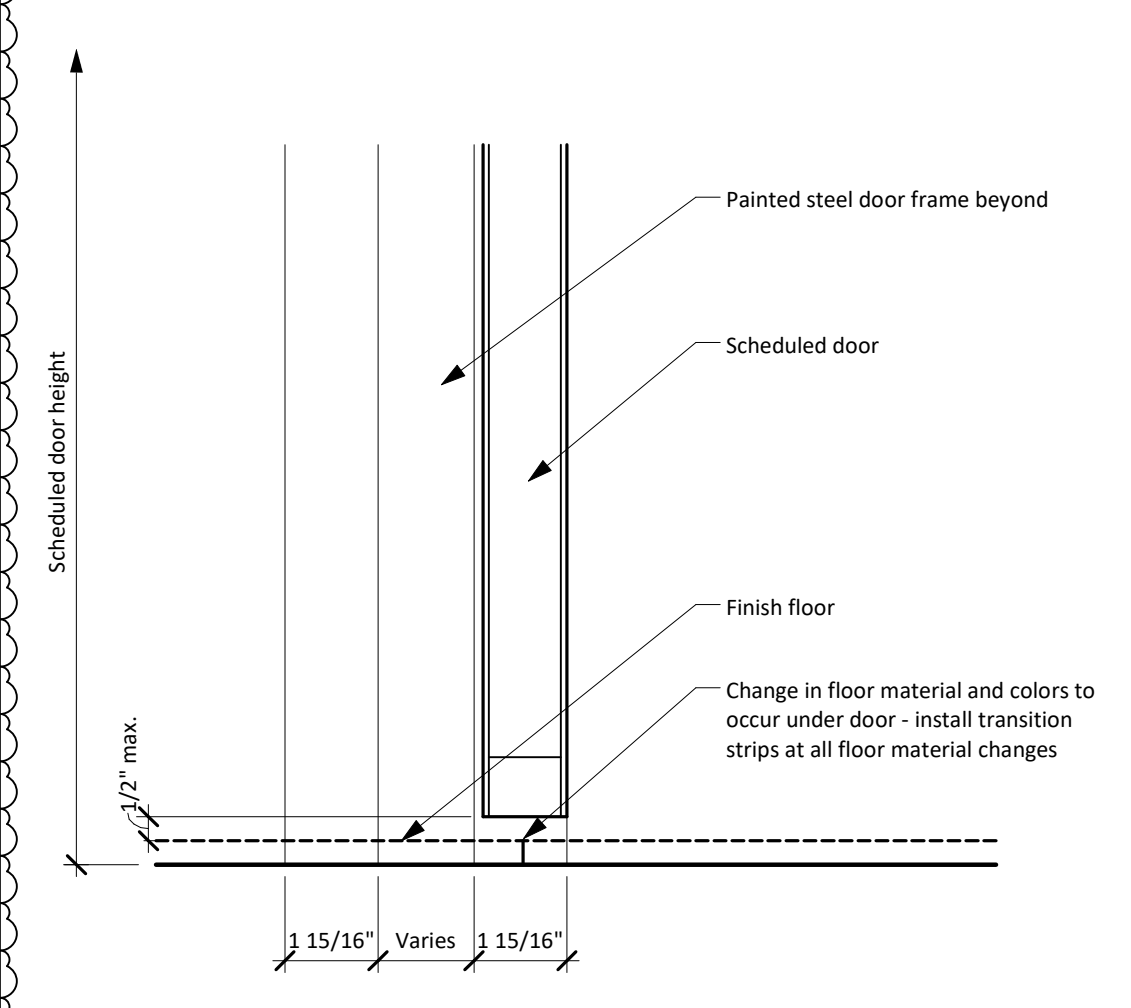
Partition Plan Detail 12' = 1'-0" 17



Jamb at Interior Steel Door Frame 3' = 1'-0" 12



Partition at Floor 3' = 1'-0" 16



Sill at Interior Steel Door Frame 3' = 1'-0" 11

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No.	Date	Description
1	07/08/2016	Issue for Construction
2	11/14/2016	Addendum 3

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Door and Window Details

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Issue / Revision

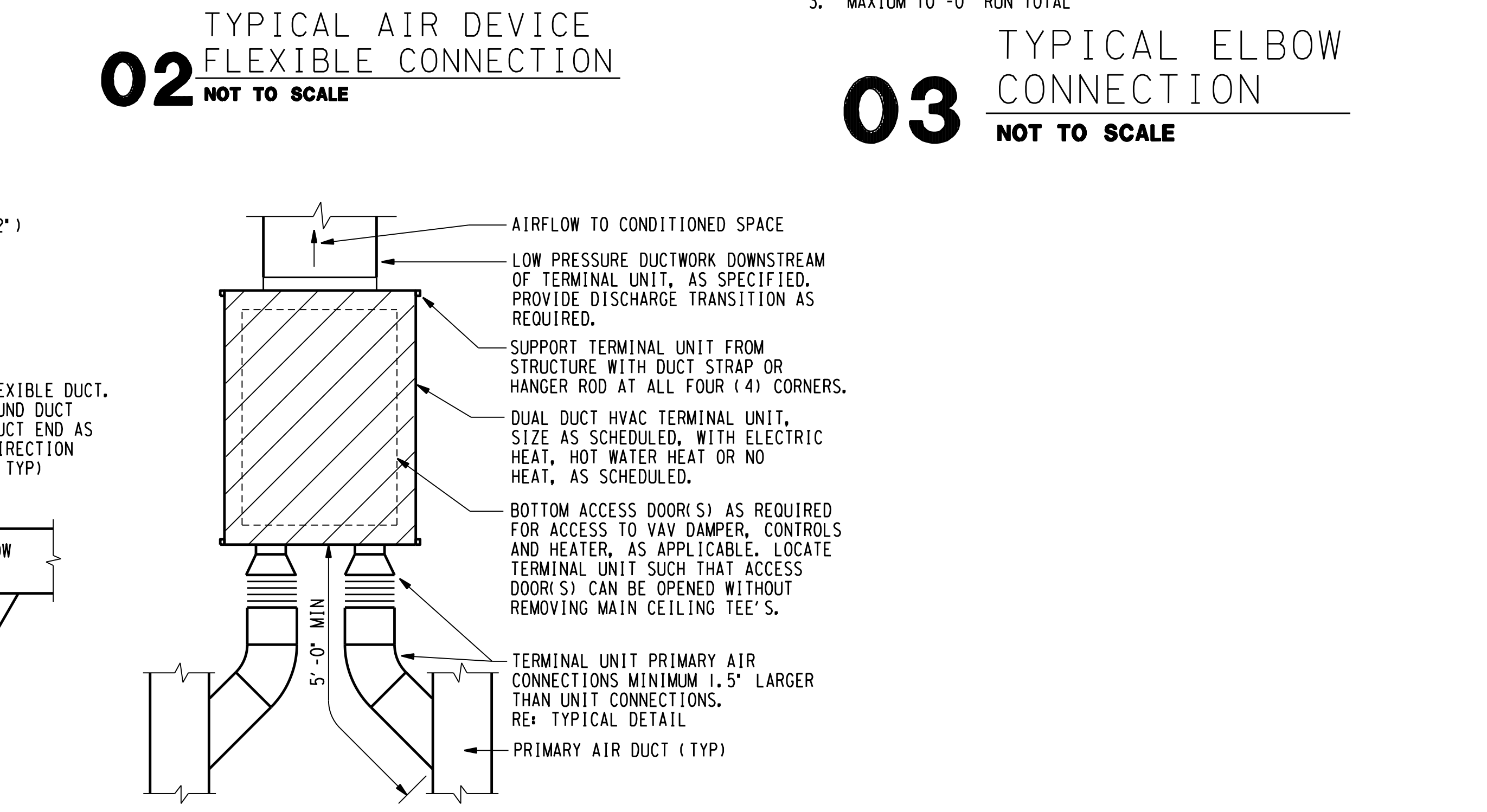
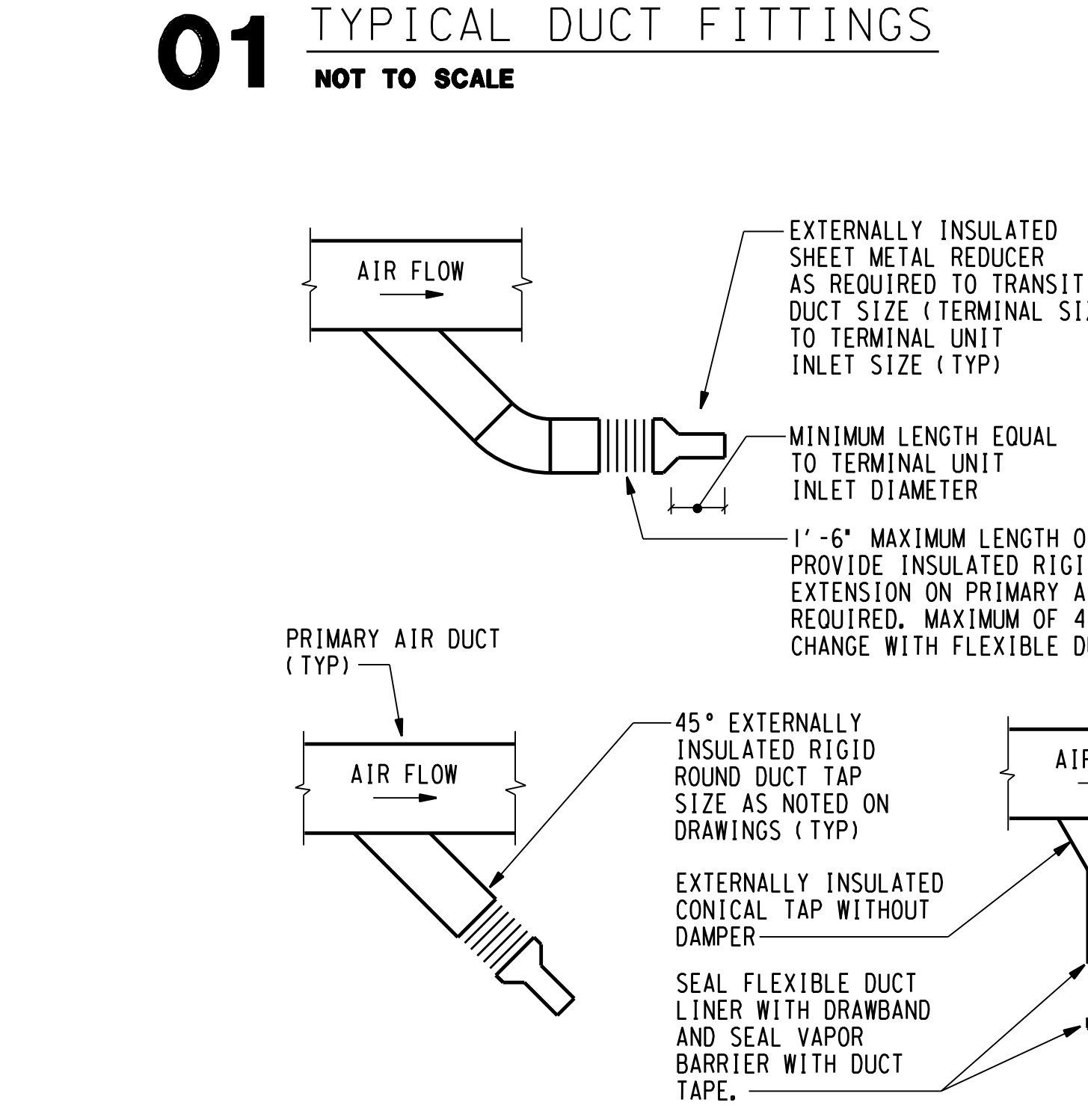
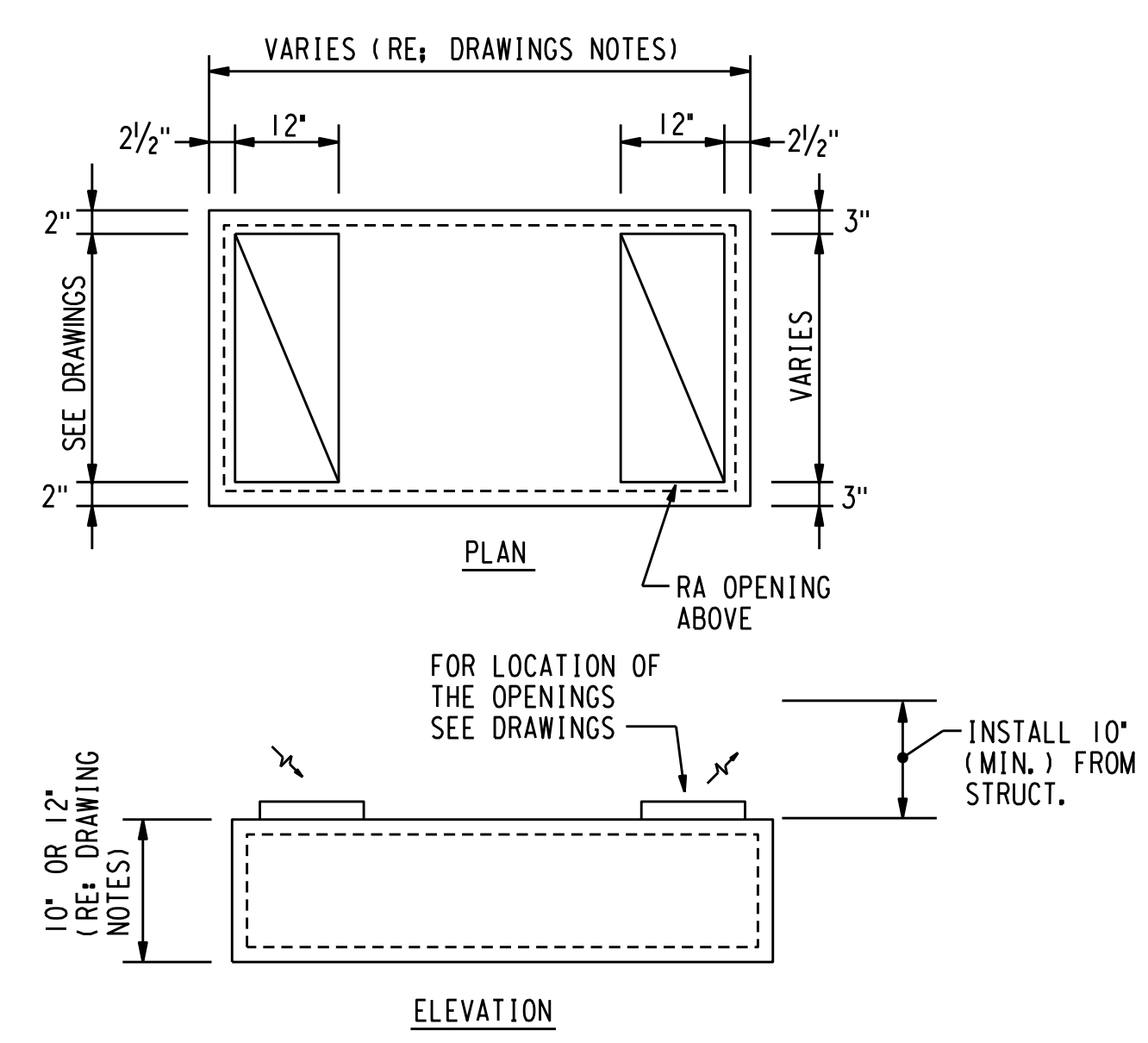
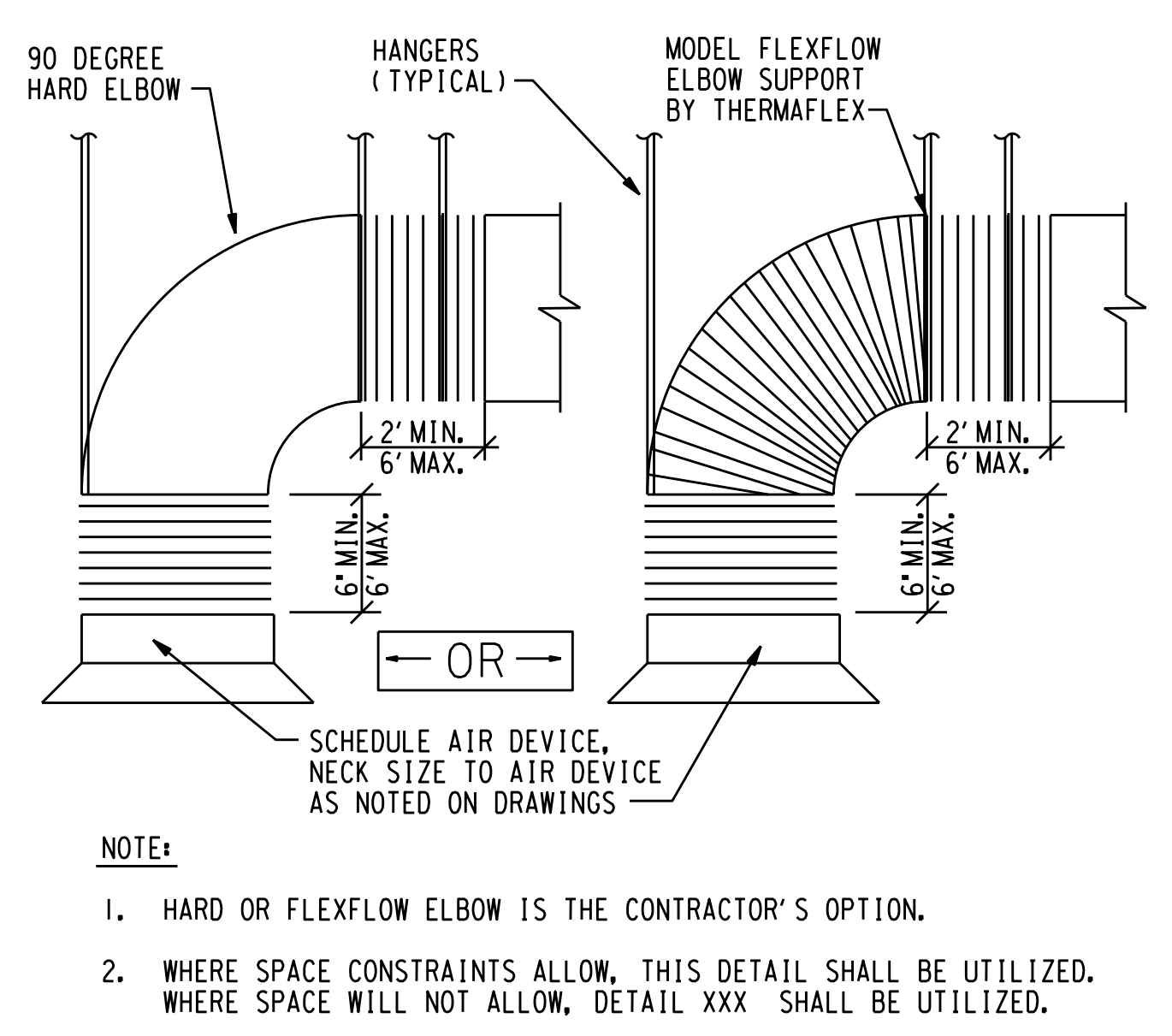
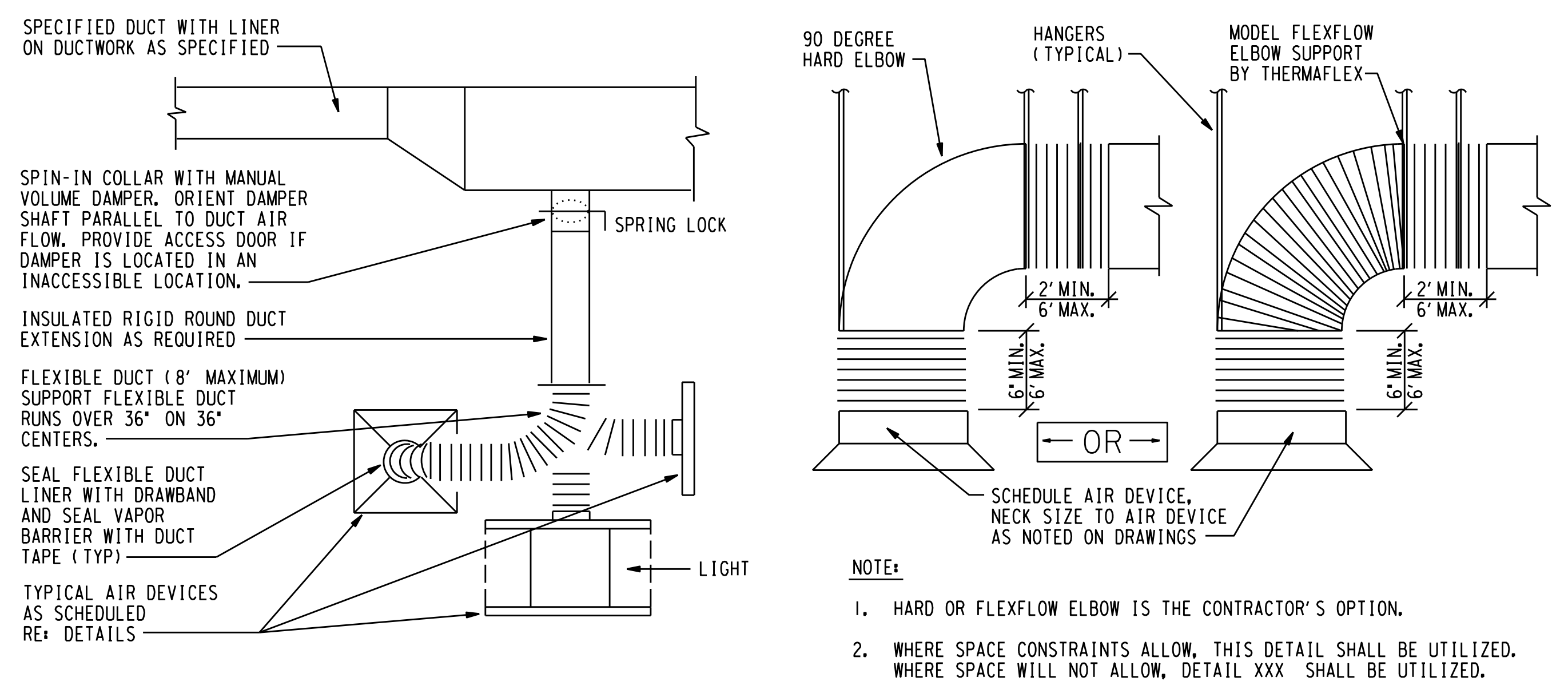
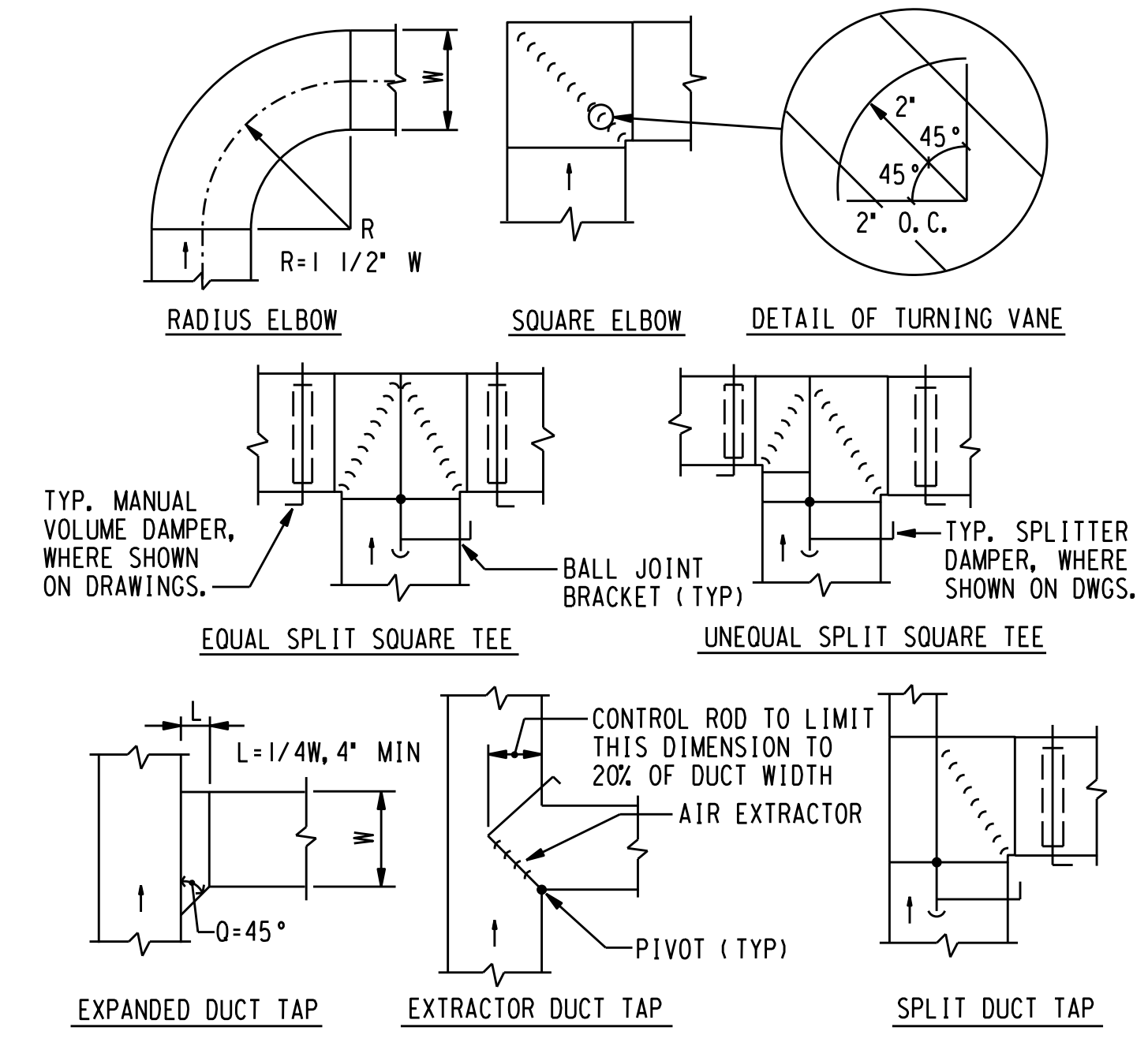
No.	Date	Description
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Mechanical/Electrical/ Plumbing Schedules And Details

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Plan Designation	AIR DISTRIBUTION DEVICES		
	A	B	C
Manufacturer	Titus	Titus	Titus
Model/Series	OMNI-AA	OMNI-AA	FLOWBAR
Function	Supply	Return	Supply
Device Type	Ceiling	Ceiling	Ceiling
Face Type	Plaque	Plaque	Slot
Face Size (inches)	24" x 24"	24" x 24"	48" Long
Neck Size (inches)	Re: Dwg	15" Rnd	Re: Dwg
Maximum NC	30	30	30
Border Type	TYPE 3	TYPE 3	TYPE 22
Material	Aluminum	Aluminum	Aluminum
Exterior Finish	White	White	Black
Interior Finish	White	White	Black
Mounting Type	Lay-in	Lay-in	Lay-in
Accessories			
Remarks			

LIGHT FIXTURE SCHEDULE								
FIXTURE TYPE	MANUFACTURER	CATALOG NUMBER	LAMP TYPE (L/R)	BALLAST/DRIVER TYPE	VOLTAGE	FIXTURE WATTS	MOUNTING	DESCRIPTION
A (e)	CREE	ZR24-40L-40K-CMA	4000 Lx 4000 K 90 CRI LED	<10% THD DIMMING LED DRIVER	120/277 V	44 W	LAY-IN	2' x 4' HIGH EFFICIENCY LED TROFFER WITH DIMMING DRIVER AND SMARTCAST INTEGRAL MOTION AND AMBIENT SENSORS AND WIRELESS COMMUNICATIONS. (1)
T1	LITECONTROL		(1) F54 T5HO-4100K	<10% THD PROGRAM START ELECTRONIC BALLAST	277 V	54 W	PENDANT	8' MATTE WHITE INDIRECT PENDANT LIGHT FIXTURE WITH 15' AIRCRAFT CABLE PENDANT MOUNTS AND >10% THD PROGRAM START BALLAST. PROVIDE FIXTURES WITH END CAPS. FIXTURE DISCONNECTS LISTED CANOPY POXES AND OTHER ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION TO MATCH EXISTING INSTALLATION. FIXTURE MOUNTING AND LAMP COLOR TO MATCH EXISTING FIXTURES IN THE ROOM.
X1	PHILLIPS/CHLORIDE	55L 3 R OR APPROVED EQUAL (e)	2.5 W RED LED	INTEGRAL LED DRIVER	120/277 V	2.5 W	SURFACE	SINGLE FACE LED EXIT SIGN TO MATCH EXISTING WITH BRUSHED ALUMINUM FACE AND BLACK HOUSING, RED LETTERS, ARROWS AS INDICATED.
X2	PHILLIPS/LIGHTOLIER	55L 3 R OR APPROVED EQUAL (e)	5 W RED LED	INTEGRAL LED DRIVER	120/277 V	5 W	SURFACE	DOUBLE FACE LED EXIT SIGN TO MATCH EXISTING WITH BRUSHED ALUMINUM FACE AND BLACK HOUSING, RED LETTERS, ARROWS AS INDICATED.

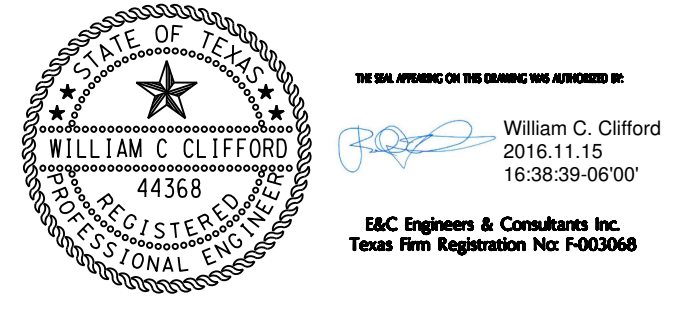
NOTE (a) - ALL FLUORESCENT LAMPS SHALL BE PHILLIPS ALTO LOW MERCURY.
NOTE (b) - FLUORESCENT LAMP AND LED COLOR TEMPERATURE TO MATCH EXISTING LAMPS IN THE PROJECT AREA. CONFIRM COLOR COMPATIBILITY PRIOR TO SUBMITTING FIXTURES.
NOTE (c) - FLUORESCENT LAMP AND LED COLOR TEMPERATURE TO MATCH EXISTING LAMPS IN THE PROJECT AREA. CONFIRM COLOR COMPATIBILITY PRIOR TO SUBMITTING FIXTURES.
NOTE (d) - CONFIRM VISUAL COMPATIBILITY WITH EXISTING PENDANT LIGHTING IN THE AREA PRIOR TO ORDERING.
NOTE (e) - CONFIRM VISUAL COMPATIBILITY WITH EXISTING EXIT SIGNS IN THE AREA PRIOR TO ORDERING.
NOTE (f) - PROVIDE (1) CCT-CWC-1 OR EQUAL CONFIGURATION TOOL.

Plan Designation	DOUBLE DUCT TERMINAL UNITS												
	DDB-01-05 (5)	DDB-01-06 (5)	DDB-01-07 (5)	DDB-01-08 (5)	DDB-01-09 (5)	DDB-01-10 (5)	DDB-01-17 (5)	DDB-01-18 (5)	DDB-01-19 (5)	DDB-01-20 (5)	DDB-01-21 (5)	DDB-01-22 (5)	DDB-01-23 (5)
Manufacturer	Nailor	Nailor	Nailor	Nailor	Nailor	Nailor	Nailor	Nailor	Nailor	Nailor	Nailor	Nailor	Nailor
Model/Series	D3230 (2)	D3230 (2)	D3230 (2)	D3230 (2)	D3230 (2)	D3230 (2)	D3230 (2)	D3230 (2)	D3230 (2)	D3230 (2)	D3230 (2)	D3230 (2)	D3230 (2)
Size	4	6	6	6	6	6	6	6	6	6	6	6	6
Terminal Unit Maximum Airflow	100 cfm	375 cfm	350 cfm	845 cfm	410 cfm	790 cfm	340 cfm	250 cfm	425 cfm	250 cfm	730 cfm	250 cfm	250 cfm
Terminal Unit Minimum Airflow	50 cfm	188 cfm	175 cfm	423 cfm	205 cfm	395 cfm	170 cfm	125 cfm	213 cfm	125 cfm	365 cfm	125 cfm	125 cfm
Design Cooling Airflow	100 cfm	375 cfm	350 cfm	845 cfm	410 cfm	790 cfm	340 cfm	250 cfm	425 cfm	250 cfm	730 cfm	250 cfm	250 cfm
Minimum Cooling Airflow	0 cfm	0 cfm	0 cfm	0 cfm	0 cfm	0 cfm	0 cfm	0 cfm	0 cfm	0 cfm	0 cfm	0 cfm	0 cfm
Cooling Inlet Size	6"	6"	6"	10"	6"	10"	6"	6"	8"	6"	10"	6"	6"
Cooling Flex Duct Size	4"	6"	6"	10"	6"	10"	6"	6"	8"	6"	10"	6"	6"
Maximum Heating Airflow	100 cfm	375 cfm	350 cfm	845 cfm	410 cfm	790 cfm	340 cfm	250 cfm	425 cfm	250 cfm	730 cfm	250 cfm	250 cfm
Minimum Heating Airflow	0 cfm	0 cfm	0 cfm	0 cfm	0 cfm	0 cfm	0 cfm	0 cfm	0 cfm	0 cfm	0 cfm	0 cfm	0 cfm
Heating Inlet Size	6"	6"	6"	10"	6"	10"	6"	6"	8"	6"	10"	6"	6"
Heating Flex Duct Size	4"	6"	6"	10"	6"	10"	6"	6"	8"	6"	10"	6"	6"
Outlet Size	8/8"	8/8"	8/8"	10/10"	8/8"	8/8"	8/8"	8/8"	8/8"	8/8"	8/8"	8/8"	8/8"
Minimum Inlet Static Pressure	1.0 "wc	1.0 "wc	1.0 "wc	1.0 "wc	1.0 "wc	1.0 "wc	1.0 "wc	1.0 "wc	1.0 "wc	1.0 "wc	1.0 "wc	1.0 "wc	1.0 "wc
Max. Terminal Pressure Drop	0.5 "wc	0.5 "wc	0.5 "wc	0.5 "wc	0.5 "wc	0.5 "wc	0.5 "wc	0.5 "wc	0.5 "wc	0.5 "wc	0.5 "wc	0.5 "wc	0.5 "wc
Max. Room Noise Criteria (NC)	30	30	30	30	30	30	30	30	30	30	30	30	30
Control Type	DDC (3)	DDC (3)	DDC (3)	DDC (3)	DDC (3)	DDC (3)	DDC (3)	DDC (3)	DDC (3)	DDC (3)	DDC (3)	DDC (3)	DDC (3)
Control Sequence	Re: UTHSC-H	Re: UTHSC-H	Re: UTHSC-H	Re: UTHSC-H	Re: UTHSC-H	Re: UTHSC-H	Re: UTHSC-H	Re: UTHSC-H	Re: UTHSC-H	Re: UTHSC-H	Re: UTHSC-H	Re: UTHSC-H	Re: UTHSC-H

(1) - Coordinate Metasys Terminal Unit Designation with UTHSC-H Project Number.
(2) - With UT Spec Construction and Testing, Solid Metal Liner, Bottom Access Door, Integral Sound Attenuator and Mixing Baffles.
(3) - Provide terminal unit with DDC Controls, Re: Specifications.
(4) - Provide new DDC controls and actuators for reused existing terminal unit, Re: Specifications.
(5) - As-built record drawings and field identification tags for all HVAC terminal units shall clearly note the actual BAS system name for the terminal unit using the UT naming convention with VAVFloor Number_AHU Serving Terminal Unit_Sequential Number (example: v01_01_01).

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- GENERAL NOTES:**
- A. RE: MEPO.0 FOR ADDITIONAL GENERAL NOTES.
 - B. AS-BUILT RECORD DRAWINGS AND FIELD IDENTIFICATION TAGS FOR ALL HVAC TERMINAL UNITS SHALL CLEARLY NOTE THE ACTUAL BAS SYSTEM NAME FOR THE TERMINAL UNIT USING THE UT NAMING CONVENTION WITH VAV/FLOOR NUMBER AHU SAVING Terminal Unit Sequential Number (example VAV01 01 01).

- DRAWING NOTES:**
- ① REMOVE EXISTING DASHED HOT AND COLD DUCT CONNECTIONS, DOUBLE DUCT TERMINAL UNIT, SUPPLY DUCT AND AIR DEVICES. EXISTING HOT AND COND TRUNK DUCT TAPS SHALL BE REUSED TO SERVE NEW REPLACEMENT DOUBLE DUCT TERMINAL UNITS, RE: 01/MI.01AW, NOTE 2.
 - ② EXISTING HOT AND COLD TRUNK DUCT TAPS WHICH SERVED DOUBLE DUCT TERMINAL UNIT WHICH IS BEING REPLACED SHALL BE REUSED TO SERVE THE NEW REPLACEMENT DOUBLE DUCT TERMINAL UNIT. EXTEND NEW EXTERNALLY INSULATED RIGID ROUND AND INSULATED FLEXIBLE HOT AND COLD DUCTS FROM EXISTING TAPS TO SERVE THE NEW REPLACEMENT DOUBLE DUCT TERMINAL UNIT. LOCATE REPLACEMENT DOUBLE DUCT TERMINAL UNIT TO MINIMIZE THE FLEXIBLE DUCT LENGTHS TO THE TERMINAL UNIT AND TO THE MAXIMUM EXTENT POSSIBLE TO ALLOW 1-1/2 DUCT DIAMETERS OF EXTERNALLY INSULATED RIGID ROUND DUCT TO BE USED FOR THE FLEXIBLE DUCT CONNECTIONS TO THE TERMINAL UNIT INLETS.
 - ③ NEW REPLACEMENT DDC DOUBLE DUCT TERMINAL UNIT, BALANCE TO AIRFLOW INDICATED.
 - ④ NEW DDC SPACE TEMPERATURE SENSOR WITH CONTROL WIRING TO TERMINAL UNIT INDICATED.
 - ⑤ NEW HOT AND COLD TRUNK DUCT TAPS WITH NEW EXTERNALLY INSULATED RIGID ROUND AND INSULATED FLEXIBLE HOT AND COLD DUCTS TO SERVE THE NEW DOUBLE DUCT TERMINAL UNIT. LOCATE NEW DOUBLE DUCT TERMINAL UNIT TO MINIMIZE THE FLEXIBLE DUCT LENGTHS TO THE TERMINAL UNIT AND TO THE MAXIMUM EXTENT POSSIBLE TO ALLOW 1-1/2 DUCT DIAMETERS OF EXTERNALLY INSULATED RIGID ROUND DUCT TO BE USED FOR THE FLEXIBLE DUCT CONNECTIONS TO THE TERMINAL UNIT INLETS.
 - ⑥ NEW DDC DOUBLE DUCT TERMINAL UNIT, BALANCE TO CFM INDICATED.
 - ⑦ NEW EXTERNALLY INSULATED SHEET METAL SUPPLY DUCTWORK.
 - ⑧ NEW DAMPERED SPIN-IN AND EXTERNALLY INSULATED RIGID ROUND SHEET METAL SUPPLY DUCT AND INSULATED ACOUSTICAL FLEXIBLE DUCT TO NEW SUPPLY GRILL.
 - ⑨ NEW SUPPLY AIR GRILL, TYPE AS INDICATED. BALANCE TO CFM INDICATED. IF CFM INDICATED DIFFERS FROM FIELD VERIFIED EXISTING CFM, CONTACT ENGINEER FOR DIRECTION.
 - ⑩ NEW RETURN AIR GRILL, TYPE AS INDICATED.
 - ⑪ NEW DEEP STRUCTURAL BEAM, RE: STRUCTURAL.

Issues / Revisions

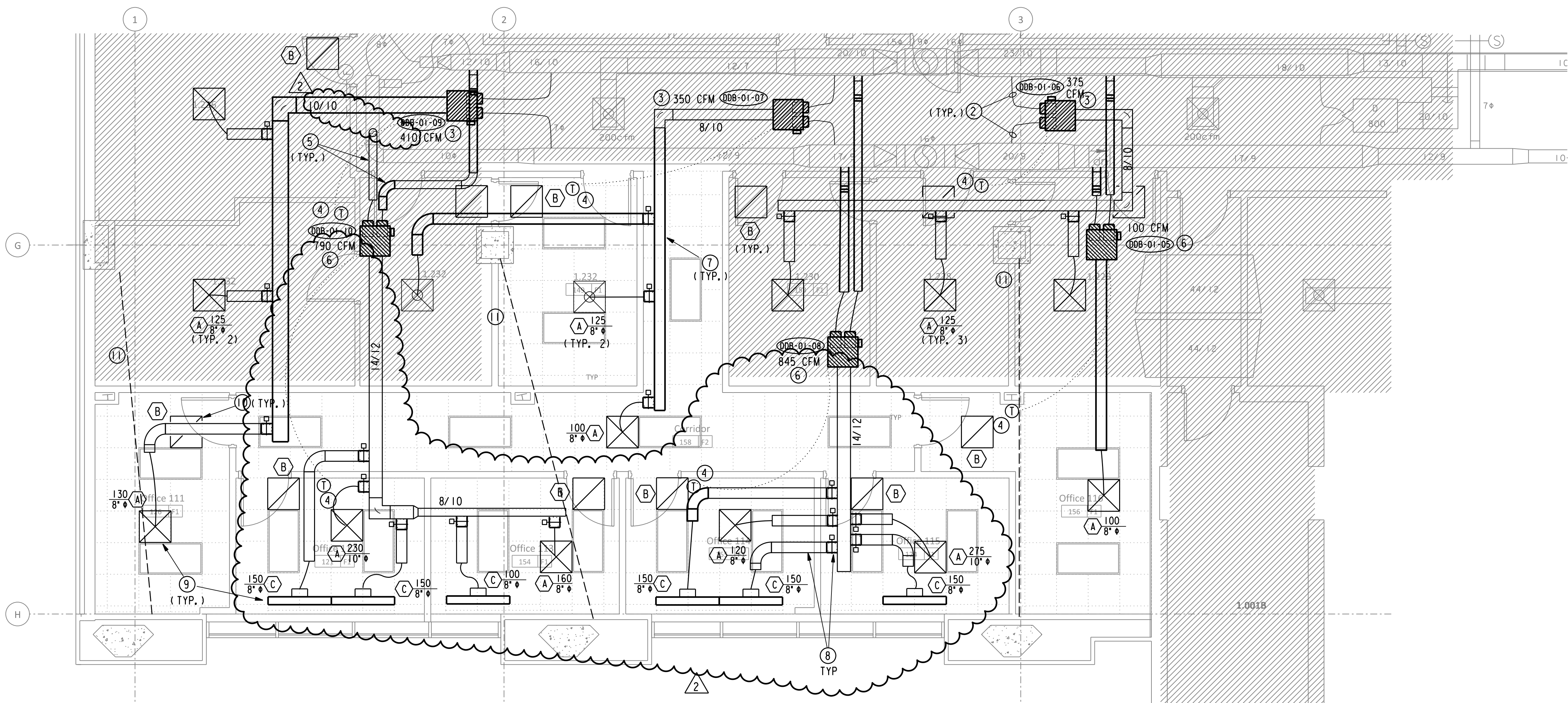
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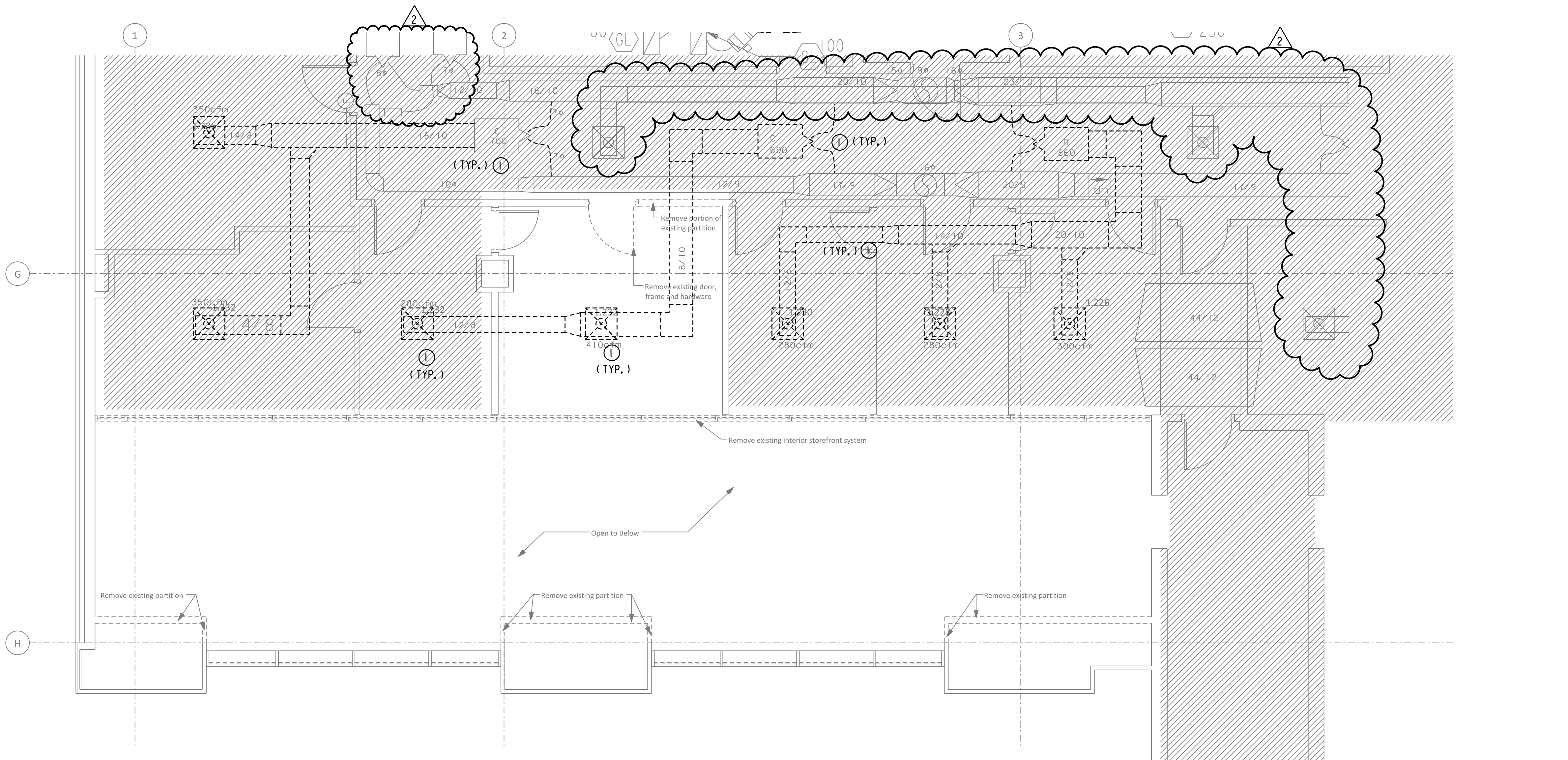


**Mechanical
Demolition and
Alteration Plans
First Floor West**

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02 FIRST FLOOR WEST - MECHANICAL ALTERATION PLAN
SCALE: 1/4" = 1' - 0"



01 FIRST FLOOR WEST - MECHANICAL DEMOLITION PLAN
SCALE: 1/4" = 1' - 0"

SECTION 08 12 13
HOLLOW METAL FRAMES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Non-fire-rated hollow metal frames for non-hollow metal doors.

1.02 RELATED REQUIREMENTS

- A. Section 08 14 16 - Flush Wood Doors: Non-hollow metal door for hollow metal frames.
- B. Section 08 71 00 - Door Hardware: Hardware, silencers, and weatherstripping.
- C. Section 09 91 23 - Interior Painting: Field painting.

1.03 REFERENCE STANDARDS

- A. ADA Standards - Americans with Disabilities Act (ADA) Standards for Accessible Design; 2010.
- B. ANSI/ICC A117.1 - American National Standard for Accessible and Usable Buildings and Facilities; International Code Council; 2009.
- C. ANSI/SDI A250.8 - Specifications for Standard Steel Doors and Frames (SDI-100); 2014.
- D. ANSI/SDI A250.10 - Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames; 2011.
- E. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2015.
- F. ASTM A1008/A1008M - Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Solution Hardened, and Bake Hardenable; 2015.
- G. ASTM A1011/A1011M - Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength; 2014.
- H. ICC A117.1 - Accessible and Usable Buildings and Facilities; 2009.
- I. NAAMM HMMA 830 - Hardware Selection for Hollow Metal Doors and Frames; 2002.
- J. NAAMM HMMA 831 - Hardware Locations for Hollow Metal Doors and Frames; 2011.
- K. NAAMM HMMA 840 - Guide Specifications for Installation and Storage of Hollow Metal Doors and Frames; 2007.

1.04 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements for submittal procedures.
- B. Product Data: Materials and details of design and construction, hardware locations, reinforcement type and locations, anchorage and fastening methods, and finishes; and one copy of referenced grade standard.
- C. Shop Drawings: Details of each opening, showing elevations, glazing, frame profiles, and identifying location of different finishes, if any.
- D. Installation Instructions: Manufacturer's published instructions, including any special installation instructions relating to this project.
- E. Manufacturer's Certificate: Certification that products meet or exceed specified requirements.

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.
- B. Maintain at the project site a copy of all reference standards dealing with installation.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Store in accordance with applicable requirements and in compliance with standards and/or custom guidelines as indicated.
- B. Protect with resilient packaging; avoid humidity build-up under coverings; prevent corrosion.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Hollow Metal Frames with Integral Casings:
 - 1. Republic Doors: www.republicdoor.com.
 - 2. Steelcraft, an Allegion brand: www.allegion.com/us.
 - 3. Substitutions: Not permitted.

2.02 DESIGN CRITERIA

- A. Refer to Door Type Schedule on the drawings for frame sizes, fire ratings, sound ratings, finishing, door hardware to be installed, and other variations, if any.
- B. Door Frame Type: Provide hollow metal door frames with integral casings.
- C. Steel used for fabrication of frames shall comply with one or more of the following requirements; Galvannealed steel conforming to ASTM A653/A653M, cold-rolled steel conforming to ASTM A1008/A1008M, or hot-rolled pickled and oiled (HRPO) steel conforming to ASTM A1011/A1011M, Commercial Steel (CS) Type B for each.
- D. Accessibility: Comply with ICC A117.1 and ADA Standards.
- E. Glazed Lights: Non-removable stops on non-secure side; sizes and configurations as indicated on drawings. Style: Manufacturers standard.
- F. Combined Requirements: If a particular door and frame unit is indicated to comply with more than one type of requirement, comply with the specified requirements for each type; for instance, an exterior frame that is also indicated as being sound-rated must comply with the requirements specified for exterior frames and for sound-rated frames; where two requirements conflict, comply with the most stringent.
- G. Hardware Preparations, Selections and Locations: Comply with NAAMM HMMA 830 and NAAMM HMMA 831 or ANSI/SDI A250.8 (SDI-100) in accordance with specified requirements.
- H. Mullions for Pairs of Doors: Fixed, except where removable is indicated, with profile similar to jambs.
- I. Frames Installed Back-to-Back: Reinforce with steel channels anchored to floor and overhead structure.
- J. Frames Wider than 48 Inch: Reinforce with steel channel fitted tightly into head of frame, flush with top.

2.03 HOLLOW METAL DOOR FRAMES WITH INTEGRAL CASINGS

- A. Interior Door Frames, Non-Fire Rated: Knock-down type.
 - 1. Grade: Comply with frame requirements in ANSI/SDI A250.8 (SDI-100); Level 2 - Heavy-Duty, 16 gage, 0.053 inch, minimum frame steel thickness.
 - 2. Terminated Stops: Provide at interior non-fire rated doors in patient care areas; closed end stop terminated 6 inch above floor at 45 degree angle.

2.04 ACCESSORIES

- A. Silencers: Resilient rubber, fitted into drilled hole; 3 on strike side of single door, 3 on center mullion of pairs, and 2 on head of pairs without center mullions.
- B. Removable Stops: Formed sheet steel, shape as indicated on drawings, mitered or butted corners; prepared for countersink style tamper proof screws.
- C. Temporary Frame Spreaders: Provide for factory- or shop-assembled frames.

2.05 FINISHES

- A. Primer: Rust-inhibiting, complying with ANSI/SDI A250.10, door manufacturer's standard.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify existing conditions before starting work.
- B. Verify that opening sizes and tolerances are acceptable.
- C. Verify that finished walls are in plane to ensure proper door alignment.

3.02 INSTALLATION

- A. Install frames in accordance with manufacturer's instructions and related requirements of specified frame standards or custom guidelines indicated.
- B. Coordinate frame anchor placement with wall construction.
- C. Coordinate installation of hardware.
- D. Coordinate installation of electrical connections to electrical hardware items.

3.03 TOLERANCES

- A. Clearances Between Door and Frame: Comply with related requirements of specified frame standards or custom guidelines indicated.
- B. Maximum Diagonal Distortion: 1/16 inch measured with straight edges, crossed corner to corner.

3.04 SCHEDULE

- A. Refer to Door Type Schedule on the drawings.

END OF SECTION