

CODE SUMMARY

NOTE: REFERENCES NOTED ARE BASED ON THE INTERNATIONAL BUILDING CODE UNLESS NOTED OTHERWISE.

1. APPLICABLE CODES

BUILDINGS COMPRISING THIS PROJECT HAVE BEEN DESIGNED ACCORDING TO THE FOLLOWING ADOPTED REGULATIONS AND CODE OF ORDINANCES ENFORCED BY THE CITY OF WEST MEMPHIS, ARKANSAS, AND FEDERAL REGULATIONS:

2012 ARKANSAS FIRE PREVENTION CODE: VOL. 1	2014 ARKANSAS ENERGY CODE (AEC)
2012 ARKANSAS FIRE PREVENTION CODE: VOL. 2 - COMMERCIAL	2009 - ICC A117.1
2012 ARKANSAS FIRE PREVENTION CODE: VOL. 3 - RESIDENTIAL	LIFE SAFETY CODES AS REFERENCED BY AFPC
2006 ARKANSAS STATE PLUMBING CODE	MOST CURRENT NFPA STANDARDS
2010 ARKANSAS STATE MECHANICAL CODE	2010 - ADA STANDARDS FOR ACCESSIBLE DESIGN (COMMUNITY BUILDING)
2017 NATIONAL ELECTRICAL CODE (NEC)	FAIR HOUSING ACCESSIBILITY GUIDELINES
2006 ARKANSAS STATE GAS CODE	UNIFORM FEDERAL ACCESSIBILITY STANDARDS

2. PROJECT DESCRIPTION

A. THIS PROJECT CONSISTS OF A NEW APARTMENT COMPLEX. THE STRUCTURE IS GENERALLY WOOD STUD FRAMING WITH BRICK VENEER EXTERIOR WALLS ON A POST-TENSIONED CONCRETE SLAB. THE PROJECT CONSISTS OF 2 THREE STORY RESIDENTIAL BUILDINGS, 2 TWO-STORY BUILDINGS, A COMMUNITY BUILDING, A GAZEBO, A MAIL KIOSK, AND A BUS STOP AS FOLLOWS:

BUILDING TYPE	BLDG DESCRIPTION	OCCUPANCY (AFPC 304, 310.4)	CONST. TYPE (503)	SPRINKLERED
A	APARTMENT	R2	V-B	SPRINKLERED
B	APARTMENT	R2	V-B	SPRINKLERED
C	COMMUNITY BLDG.	B	V-B	UNSPRINKLERED

36' MAX HT. PER CITY OF WEST MEMPHIS. AFPC STATES 60' MAX WITH SPRINKLERS

B. BUILDING CALCULATIONS:

BUILDING TYPE	AREA ALLOWED (IBC TABLE 506.2)	AREA PROVIDED	STORIES ALLOWED & HEIGHT ALLOWED	STORIES PROVIDED & HEIGHT PROVIDED
A	7,000 SF	6,199 SF	3' 36' max ht.**	2 25' 0 1/4'***
B	7,000 SF	12,362 SF**	3' 36' max ht.**	3 35' 8 3/4'***
C	9,000 SF	1,671 SF	1 36' max ht.**	1 23'-3"

*AFPC 2012 TABLE 503, SECTIONS 504.2 AND 506.1 ALLOW AN INCREASE IN BOTH THE MAXIMUM BUILDING HEIGHTS AND AREAS WHEN BUILDING IS SPRINKLERED. BUILDING C IS NOT SPRINKLERED.

** AREA IS BASED ON AFPC 506.3 AND IS THE FOOTPRINT, PER LEVEL, AS FORMED BY THE OUTSIDE FACE OF THE EXTERIOR WALLS.

*** ALLOWABLE STORIES AND MAXIMUM HEIGHT BASED ON WEST MEMPHIS ZONING REQUIREMENTS. HEIGHTS PROVIDED ARE THE MEAN ROOF HEIGHTS.

3. FIRE RESISTANCE REQUIREMENTS

- A. FIRE RESISTANCE RATINGS PER AFPC (TABLE 601):

 - A.A. NO FIRE RATED SEPARATIONS ARE REQUIRED AT THE COMMUNITY BUILDING.
 - A.B. FIRE SEPARATIONS FOR APARTMENT BUILDINGS AS FOLLOWS:

STRUCTURAL ELEMENT	RATING (IN HOURS)	
STRUCTURAL FRAME, COLUMNS, GIRDERS, TRUSSES	0	TABLE 601
EXTERIOR BEARING WALLS	0	TABLE 601
INTERIOR BEARING WALLS	0	TABLE 601
EXTERIOR NON-BEARING WALLS	0	TABLE 602 WITH MIN. FIRE SEPARATION OF 10'. CONSTRUCTION TYPE V-B; GROUP R
INTERIOR NON-BEARING WALLS	0	TABLE 601 PAR 602.5 - MAY BE OF ANY MATERIAL PERMITTED BY CODE
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS & JOISTS	0	TABLE 601
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS & JOISTS	0	TABLE 601
UNPROTECTED EXTERIOR WALL OPENINGS	NL	TABLE 705.8 UNPROTECTED OPENINGS ALLOWED - EACH ELEVATION PER STORY MAY HAVE MAX OF 25% UNPROTECTED OPENING.
VERTICAL FLAME BARRIERS	N/A	PAR 705.8.5, EXCEPTION 1- NOT REQUIRED FOR BUILDINGS THAT ARE 3 STORIES OR LESS IN HEIGHT.
FIRE WALLS	N/A	TABLE 706.4 TYPE V CONSTRUCTION PERMITTED TO HAVE A 2-HR FIRE RESISTANCE RATING
FIRE PARTITIONS (SEPARATING DWELLING UNITS)	1	PAR 708.3 UL DESIGN #U340 (1 HR)
DRAFTSTOPPING	REQ'D	PAR 718.4.2 EXCEPTION 3. NOT TO EXCEED 3,000 SF OR ABOVE EVERY TWO DWELLING UNITS, WHICHEVER SMALLER PAR 708.4, EXCEPTION 5, REQ'D ABOVE FIRE PARTITION.
CONCEALED SPACES	N/A	PAR 718.3.2. DRAFTSTOPPING SHALL BE PROVIDED IN FLOOR/CEILING SPACES AND IN LINE WITH FIRE PARTITION SEPARATING DWELLING UNITS.
SMOKE BARRIERS	N/A	
HORIZONTAL ASSEMBLIES	1	PAR 709.4. NOT REQUIRED FOR TYPE V-B CONSTRUCTION. PAR 711.3 REQUIRED AT FLOOR/CEILING AND ROOF/CEILING ASSEMBLIES - (UL DESIGN L501/L563/PS51)
PENETRATIONS	REQ'D	PAR 714.3.1.2 RATING OF NOT LESS THAN THE REQ'D FIRE-RESISTANCE RATING OF THE WALL PENETRATED (UL DESIGN #W-L-7042 (1HR))
OPENING PROTECTIVES	REQ'D	TABLE 716.5. DOORS IN A 1-HR RATED FIRE BARRIER EXIT ENCLOSURE REQ'D TO BE 1-HR RATED.
FIREBLOCKING	REQ'D	PAR 718.2 SHALL BE INSTALLED TO CUT OFF CONCEALED DRAFT OPENING (BOTH VERTICAL AND HORIZONTAL) AND SHALL FORM AN EFFECTIVE BARRIER FLOORS, BETWEEN THE TOP STORY, AND THE ATTIC SPACE ABOVE.

4. EGRESS REQUIREMENTS

A. OCCUPANT LOAD (AFPC TABLE 1004.1.2):

BUILDING TYPE	AREA PER OCCUPANT	MAX. AREA PER UNIT	MAX. OCCUPANT (AFPC 1004.1.2)	MAX. OCCUPANT LOAD PROVIDED
A	200 GROSS	1,278 SF	20 PPL/SF	6/UNIT
B	200 GROSS	1,278 SF	20 PPL/SF	5/UNIT
C	100 GROSS	1,671 SF	49 PPL/SF	16

B. EGRESS CALCULATIONS:

MAX TRAVEL DIST TO DOORWAY (AFPC 1014.3)	MAX DISTANCE TO DOORWAY PROVIDED	MAX. COMMON PATH OF EGRESS DIST (AFPC 1014.3)	MAX. COMMON PATH OF EGRESS PROVIDED
125 FT - R2	65'	125 FT	65'
100 FT - B	33'	N/A	N/A

C. AFPC 1009.4 EXCEPTION 1. STAIRWAYS SERVING AN OCCUPANT LOAD OF LESS THAN 50 SHALL HAVE A WIDTH OF NOT LESS THAN 36 INCHES.

	EGRESS WIDTH REQ'D (AFPC 1005.3.2)	EGRESS WIDTH PROVIDED	MINIMUM CORRIDOR WIDTH REQ'D WITHIN UNIT (1018.2)	CORRIDOR WIDTH PROVIDED
A, B	32 INCHES	36 INCHES	36 INCHES	45 INCHES
C	32 INCHES	36 INCHES	36 INCHES	45 INCHES

5. PARKING

- A. 1.5 SPACE PER DWELLING UNIT = 64 X 1.5 = 96 SPACES
- 1 GUEST SPACE PER EVERY 4 DWELLING UNITS = 16 SPACES
- 1 SPACE/300 SF OF CLUBHOUSE = 6 SPACES REQUIRED
- 118 TOTAL REQUIRED SPACES
- 2% OF 118 PARKING SPACES (PAR 1106.2) = 3 REQ'D - 8 SPACES PROVIDED

6. ACCESSIBILITY REQUIREMENTS

- A. PARKING

 - 1 ACCESSIBLE SPACE REQUIRED @ CLUBHOUSE (TABLE 1106.1)
 - 2. 1 VAN ACCESSIBLE SPACE REQUIRED PER 6 STANDARD ACCESSIBLE SPACES (AFPC PAR 1106.5). 4 OF THE 8 HC SPACES ARE VAN ACCESSIBLE SPACES

- B. ACCESSIBLE ROUTE: ACCESSIBLE ROUTE NOT REQUIRED AT SECOND FLOOR WITH NO ELEVATOR SERVICE (AFPC 1104.4, EXCEPTION 2)
- C. DWELLING UNITS
 - TYPE A REQ'D: 64 TOTAL, 5 TYPE A PROVIDED, 19 TYPE B PROVIDED, 2 SENSORY IMPAIRED
 - 2% (IBC 1107.6.2.2.1) = 64 * .02 = 2
 - 5% (UFAS 4.1.4.11) = 64 * .05 = 3.2
 - 7% (AUSH) = 64 * .07 = 4.48
 - BALANCE OF GROUND FLOOR DWELLING UNITS DESIGNED AS TYPE B (PAR 1107.6.2.2; EXCEPTIONS: 1107.7.1, 1107.1.2, 1107.1.4)
 - TYPE B REQ'D: SENSORY IMPAIRED 2% (UFAS) = 64 * .02 = 1.28
- DISPERSION AFPC 1107.6.2.2.1. TYPE A UNITS SHALL BE DISPERSED AMONG THE UNIT TYPES
- ELEVATOR ACCESS NOT PROVIDED - SEE IBC 1107.7.1

GENERAL NOTES

1. VERIFY THAT DRAWINGS ARE THE LATEST ISSUE PRIOR TO COMMENCING CONSTRUCTION.
2. PERFORM WORK PER ALL STATE, FEDERAL AND CITY CODES. NOTIFY ARCHITECT OF ANY CONFLICTS.
3. VERIFY ALL DIMENSIONS, GRADES, BOUNDARIES, CONSTRUCTION AND OTHER CONDITIONS.
4. APPLY, INSTALL, CONNECT, ERECT, CLEAN, AND/OR CONDITION ALL MANUFACTURED ARTICLES, MATERIALS, AND/OR EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
5. LARGE SCALE DRAWINGS TAKE PRECEDENCE OVER SMALL SCALE. DETAILS TAKE PRECEDENCE OVER OTHER DRAWINGS.
6. WHERE DISCREPANCIES ARE FOUND, OBTAIN WRITTEN CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
7. DO NOT SCALE DRAWINGS. OBTAIN CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.
8. SET ALL DOOR FRAMES 4" FROM ADJACENT WALL (MEASURED TO INSIDE FACE OF JAMB) AND 4" FROM ADJACENT WALL UNLESS OTHERWISE NOTED OR DIMENSIONED.
9. PROVIDE TEMPERED GLASS AT LOCATIONS 18" OR LESS FROM FLOOR LINE OR ADJACENT TO ANY DOOR SWING.
10. PROVIDE BLOCKING IN PARTITIONS FOR ALL MILLWORK AND WALL-ATTACHED ITEMS.
11. PROVIDE APPROVED FIRESTOPPING SYSTEM AT ALL PENETRATIONS OF FIRE-RATED ASSEMBLIES.

TABULATION OF AREA - THE PARK AT BARTON

BUILDINGS	RESIDENTIAL AREA (SF)				SUB-TOTAL AREA FOR UNITS (GSF) - EXCLUDING BALCONY	STAIR/COVERED AREA OF BUILDING (COMMON AREA)	SUB-TOTAL AREA OF BUILDING (GSF)	TOTAL AREA OF BUILDING (GSF) - INCLUDING BALCONY
	NET	BALCONY AREA/ UNIT	GROSS (EXCLUDING BRICK VENEER & BALCONY)	# OF UNITS PER BUILDING				
NO. OF BUILDINGS - 2								
BUILDING A (2 BUILDING) (3-BED/2 BATH END UNIT)	1,266	84	1,278	8	20,448	1,692	22,140	23,484
BUILDING B (2 BUILDING) (3-BED/2 BATH END UNIT)	1,266	84	1,278	24	61,344	3,384	64,728	68,760
BUILDING C (1 BUILDING) COMMUNITY BUILDING	-	-	1,671	-	1,671	243	1,914	1,914
GAZEBO	-	-	-	-	-	384	-	384
MAIL KIOSK	-	-	-	-	-	174	-	174
BUS STOP	-	-	-	-	-	328	-	328
TOTAL								95,044
02 BUILDING A	16 UNITS (2 HC UNITS)							
02 BUILDING B	48 UNITS (3 HC UNITS)							
01 BUILDING C								
01 GAZEBO								
06 BUILDINGS TOTAL	64 UNITS TOTAL (5 HC UNITS)							

THE PARK AT BARTON

A MULTI-FAMILY HOUSING COMMUNITY

OWNER
WEST MEMPHIS PARTNERS II, L.P.
MADISON, MS

DEVELOPER
TCOM DEVELOPMENT, LLC
MADISON, MS

CONTRACTOR
UNICORP, LLC
MADISON, MS

OWNER'S SURVEYOR/CIVIL ENGINEER
MCMMASTER & ASSOCIATES, INC.
MADISON, MS

LANDSCAPE ARCHITECT
(NOT DETERMINED)

GEOTECHNICAL ENGINEER
(NOT DETERMINED)

ARCHITECT
HERRINGTON ARCHITECTS, P.C.
BIRMINGHAM, AL

STRUCTURAL ENGINEER
STRUCTURAL DESIGN GROUP, INC.
BIRMINGHAM, AL

MECHANICAL AND PLUMBING ENGINEER
ENGINEERING DESIGN TECHNOLOGIES, INC.
BIRMINGHAM, AL

ELECTRICAL ENGINEER
CONSULTING CONSTRUCTION ENGINEERING, INC.
BIRMINGHAM, AL

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A0.4	3 BED UNIT - ACCESSIBILITY COMPLIANCE
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DATE
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PROJECT NUMBER

597

PROJECT

The Park at Barton

900 E Barton Ave
West Memphis, AR 72301

SHEET NUMBER

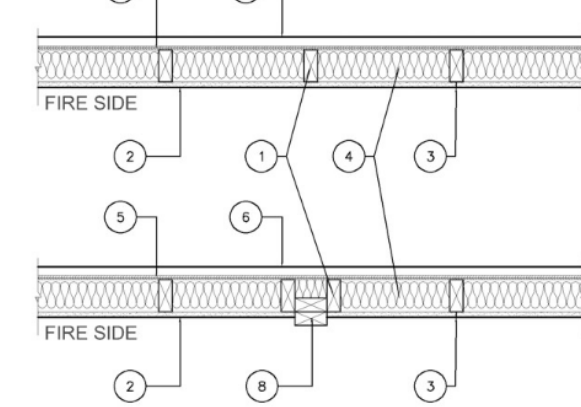
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Barton_MASTER_ebown@herringtonarchitects.com.rvt

Design No. U356

July 11, 2018

Bearing Wall Rating - 1 Hr Rating Exposed to Fire on Interior Face Only
Finish Rating - 23 Min. or 25 Min



1. Wood Studs — Nom 2 by 4 in. spaced 16 in. OC with two 2 by 4 in. top and one 2 by 4 in. bottom plates. Studs laterally-braced by wood structural panel sheathing (Item 5). When Mineral and Fiber Boards* (Item 5A) are considered as bracing for the studs, the load is restricted to 76% of allowable axial load. Walls effectively fire stopped at top and bottom of wall.

2. Gypsum Board* — Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305, Nom 5/8 in. thick, 4 ft wide, applied vertically and nailed to studs and bearing plates 7 in. OC with 6d cement-coated nails, 1-7/8 in. long with 1/4 in. diam head.

3. Joints and Fastener Heads — (Not Shown) — Gypsum board joints covered with tape and joint compound. Fastener heads covered with joint compound.

4. Batts and Blankets* — Mineral fiber or glass fiber insulation, 3-1/2 in. thick, pressure fit to fill wall cavities between studs and plates. Mineral fiber insulation to be unfaced and to have a min density of 3 pcf. Glass fiber insulation to be unfaced with aluminum foil or kraft paper and to have a min density of 0.9 pcf (min R-13 thermal insulation rating).

See Batts and Blankets* (BKNV) Category in the Building Materials Directory and Batts and Blankets* (BZJZ) Category in the Fire Resistance Directory for names of Classified Companies.

4A,4B,4C,4D — NOT USED

5. Wood Structural Panel Sheathing — Min 7/16 in. thick, 4 ft wide wood structural panels, min grade "C-D" or "Sheathing". Installed with long dimension of sheet (strength axis) or face grain of plywood parallel to and perpendicular to studs. Vertical joints centered on studs. Horizontal joints backed with nom 2 by 4 in. wood blocking. Attached to studs on exterior side of wall with 6d cement coated box nails spaced 6 in. OC at perimeter of panels and 12 in. OC along interior studs.

5A — NOT USED

6. Exterior Facings* — Installed in accordance with the manufacturer's installation instructions. One of the following exterior facings is to be applied over the sheathing:

A - G NOT USED

H. Fiber-Cement Siding — Fiber-cement exterior sidings including smooth and patterned panel or lap siding.

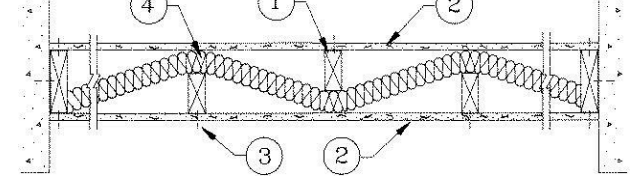
I. NOT USED
6A. NOT USED
7. NOT USED
8. NOT USED

* Bearing the UL Classification Mark.

Design No. U340

May 23, 2007

Bearing Wall Rating — 1 Hr.
Finish Rating — See Item 2



HORIZONTAL SECTION

1. Wood Studs — Nom 2 by 4 in. alternating on opposite sides of nom 2 by 6 in. wood plates. Spaced 24 in. OC, max on each side of wood plates, staggered 12 in. OC on opposite side.

2. Gypsum Board* — 5/8 in. thick wallboard, paper or vinyl faced with beveled, square, taped and rounded edges. Wallboard nailed to each stud 7 in. OC with 6d cement coated nails, 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam head. As an alternate, No. 6 bugle head drywall screws, 1-7/8 in. long, may be substituted for the 6d cement coated nails. When used in widths other than 48 in., wallboard to be installed horizontally.

When Steel Framing Members* (Item 5) are used, wallboard attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.

See Gypsum Board* (CKNX) category for names of Classified companies.

2A. Wall and Partition Facings and Accessories* — (As an alternate to Item 2, not shown) - Nominal 5/8 in. thick, 4 ft wide panels, applied vertically to studs and bearing plates on one side of the assembly with 1-5/8 in. long Type S screws spaced 12 in. OC at perimeter of panels and 8 in. OC in the field. Horizontal joints of vertically applied panels need not be backed by studs. Panel joints covered with paper tape and two layers of joint compound. Screwheads covered with two layers of joint compound. Batts and Blankets placed in stud cavity as described in Item 4B. Not evaluated for use with Steel Framing Members, Furring Channels or Fiber, Sprayed.

QUIET SOLUTION INC — Type QuietRock QR-530 (finish rating 23 min).

2B. Gypsum Board* — (As an alternate to Item 2) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.

AMERICAN GYPSUM CO — Type AG-C.

3. Joints and Nailheads — Wallboard joints covered with tape and joint compound. Nail heads covered with joint compound. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to entire surface of Classified veneer baseboard. Joints reinforced.

4. Batts and Blankets* — (Optional) — 3-1/2 in. max. thickness glass or mineral fiber batt insulation stapled to studs. See Batts and Blankets (BZJZ) category for list of Classified companies.

4A. NOT USED

4B. Batts and Blankets* — (Required for use with Wall and Partition Facings and Accessories, Item 2A) — Glass fiber insulation, nom 3-1/2 in. thick, min. density of 0.80 pcf, with a flame spread of 25 or less and a smoke developed of 50 or less, friction-fitted to completely fill the stud cavities. See Batts and Blankets Category (BKNV) for names of manufacturers.

5. NOT USED
5A. NOT USED
5B. NOT USED

6. Wall and Partition Facings and Accessories* — (Optional, Not shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-510 panel is installed between the wood framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

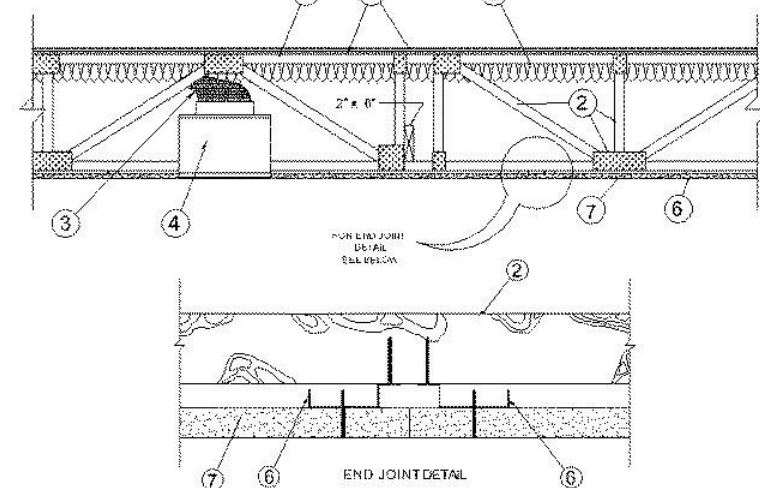
QUIET SOLUTION INC — Type QuietRock QR-510.

*Bearing the UL Classification Mark

Design No. L563

March 14, 2006

Unrestrained Assembly Rating - 1 Hr
Finish Rating - 25 Min (See Items 5 or 5A)



1. Flooring System — The flooring system shall consist of one of the following:

System No. 1 THRU 3
NOT USED

System No. 4
Subflooring — Min Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Vapor Barrier - (Optional) -- Nom 0.030 in. thick commercial asphalt saturated felt.

Floor Mat Materials* - (Optional) -- Min 3/8 in. to max 3/4 in. thick floor mat material loose laid over the subfloor.

CANADIAN GYPSUM COMPANY — Types C, IP-X2, IPC-AR

UNITED STATES GYPSUM CO -- LEVELROCK® Brand Sound Reduction Board

UNITED STATES GYPSUM CO -- LEVELROCK® Brand Floor Underlayment SRM-25

Alternate Floor Mat Materials* - (Optional) -- Nom 3/8 in. thick floor mat material loose laid over the subfloor.

SOLUTIA INC — Type SC50

Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture installed having a min compressive strength of 1500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

UNITED STATES GYPSUM CO -- LEVELROCK® Brand 2500, LEVELROCK® Brand RH

System No. 5 thru 14
NOT USED

2. Trusses — Parallel chord trusses, spaced a max of 24 in. OC, fabricated from nom 2 by 4 lumber, with lumber oriented vertically or horizontally. Min truss depth is 12 in. Truss members secured together with min 0.036 0356 in. thick galvanized steel plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split tooth type plate. Each tooth has a chisel point on its outside edge. These points are diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The pairs are repeated on approx. 7/8 in. centers with four rows of teeth per inch of plate width.

AIRE TECHNOLOGIES INC -- Models: CRD model 50 w/Boot, CRD model 50EA w/Boot, CRD model 55 w/Boot, CRD model 55 EA w/Boot.
LLOYD INDUSTRIES INC -- Model CRD 50-BT, CRD 50-EA-BT, CRD 55-BT, CRD 55 EA-BT

4A. Alternate Ceiling Damper* - (Optional) -- For use with min 18 in. deep trusses Max plenum box size nom 13 in. long by 13 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 100 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.

LLOYD INDUSTRIES INC -- Model CRD 50-BT-6, CRD 50-EA-BT-6, CRD 55-BT-6, CRD 55 EA-BT-6

4B. Alternate Ceiling Damper* - (Optional) -- For use with min 18 in. deep trusses Max size ceiling outlet in plenum box nom 12 in. long by 12 in. wide. Plenum box fabricated from galv steel. Aggregate damper openings shall not exceed 144 sq in. per 100 sq ft of ceiling area. Installed in accordance with the manufacturers installation instructions provided with the damper.

AIRE TECHNOLOGIES INC -- Models: CRD model 50 w/Boot, CRD model 50EA w/Boot, CRD model 55 w/Boot, CRD model 55 EA w/Boot.

LLOYD INDUSTRIES INC -- Model CRD 50-95BT, CRD 50-EA-95BT, CRD 55-95BT, CRD 55 EA-95BT

4C. Alternate Ceiling Damper* - (Optional) - For use with min 18 in. deep trusses. Max size ceiling outlet in plenum box nom 16 in. long by 16 in. wide. Aggregate damper openings shall not exceed 256 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.

CROWN PRODUCTS CO INC -- Models CRD50-FGPB-4.2-CP, -6.0-CP, CRD50-FGPB-4.2-EA-CP, -6.0-EA-CP.

LLOYD INDUSTRIES INC -- Models CRD 50-FGPB-4.2, -4.2 NI, -6.0, -6.0 NI; CRD50-EA-FGPB-4.2, -4.2 NI, -6.0, -6.0 NI.

5. Batts and Blankets* -- Glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. When the resilient channels (Item 6) are used, the insulation shall be a max of 3-1/2 in. thick, and shall be secured against the subflooring with staples at 12 in. OC or held suspended in the concealed space with 0.090 in. diam galv steel wires attached to the wood trusses at 12 in. OC. When the resilient channels are spaced a max of 12 in. OC or when the Steel Framing Members (Item 6A) are used, there is no limit in the overall thickness of insulation, and the insulation can be secured against the subflooring, held suspended in the concealed space or draped over the resilient channels (or Steel Framing Members) and gypsum panel membrane. The finished rating has only been determined when the insulation is secured to the subflooring.

5A. NOT USED

6. Resilient Channels -- Formed from min 0.020 in. thick galv steel, 1/2 in. deep by 2 in. wide at the base and 1-1/4 in. wide at the face, spaced 16 in. OC perpendicular to trusses. When insulation (Item 5 or 5A) is applied over the resilient channel/gypsum panel ceiling membrane, the resilient channel spacing shall be reduced to 12 in. OC. Channels secured to each truss with 1-1/4 in. long Type S bugle head steel screws. Channels overlapped 4 in. at splices. Two channels, spaced 6 in. OC, oriented opposite each gypsum panel end joint as shown in the above illustration. Additional channels shall extend min 6 in. beyond each side edge of panel.

6A. NOT USED

7. Gypsum Board* -- Nom 5/8 in. thick, 48 in. wide gypsum panels. When resilient channels (Item 6) are used, gypsum panels installed with long dimension perpendicular to resilient channels. Gypsum panels secured with 1 in. long Type S bugle head steel screws spaced 12 in. OC and located a min of 1/2 in. from side joints and 3 in. from end joints. When insulation (Items 5) is applied over the resilient channel/gypsum panel ceiling membrane the screw spacing shall be reduced to 8 in. OC. End joints secured to both resilient channels as shown in end joint detail.

CANADIAN GYPSUM COMPANY — Types C, IP-X2, IPC-AR

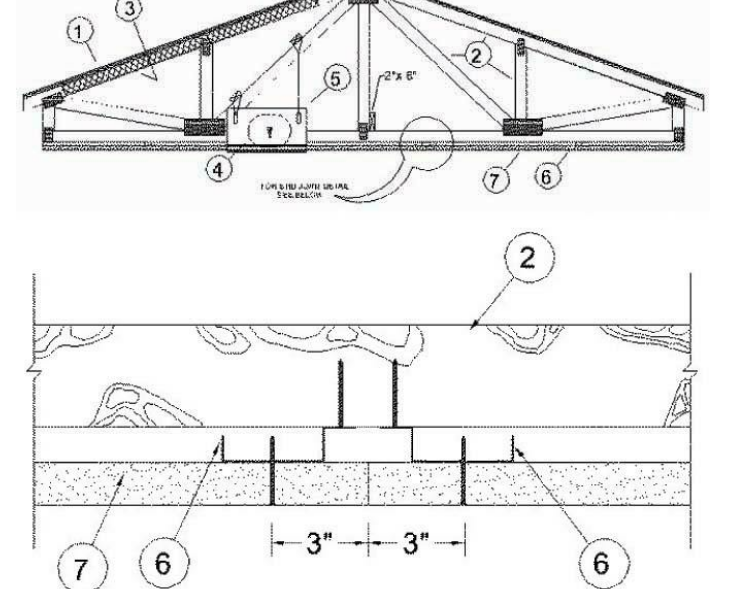
UNITED STATES GYPSUM CO -- Types C, IP-X2, IPC-AR

USG MEXICO S A DE C V -- Types C, IP-X2, IPC-AR

Design No. P531

September 29, 2005

Unrestrained Assembly Rating-1 Hr.
Finish Rating-25 Min



1. Roofing System* — Any UL Class A, B or C Roofing System (TGFU) or Prepared Roof Covering (TFWC) acceptable for use over nom 15/32 in. thick wood structural panels, min. grade "C-D" or "Sheathing". Nom 15/32 in. thick wood structural panels secured to trusses with construction adhesive and No. 6d ringed shank nails. Nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

2. Trusses — Pitch or Parallel chord trusses, spaced a max of 24 in. OC, fabricated from nom 2 by 4 lumber, with lumber oriented vertically or horizontally. Truss members secured together min 0.0356 in. thick galv steel plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split tooth type plate. Each tooth has a chisel point on its outside edge. These points are diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The pairs are repeated on approximately 7/8 in. centers with four rows of teeth per inch of plate width. Where the truss intersects with the interior face of the exterior walls, the min truss depth shall be 5-1/4 in. with a min roof slope of 3/12 and a min. area in the plane of the truss of 21 sq/ft. Where the truss intersects with the interior face of the exterior walls, the min truss depth may be reduced to 3 in. if the batts and blankets (Item 3) are used as shown in the above illustration (Alternate Insulation Placement) and are firmly packed against the intersection of the bottom chords and the plywood sheathing.

AIRE TECHNOLOGIES INC -- Models: CRD model 50 w/Boot, CRD model 50EA w/Boot, CRD model 55 w/Boot, CRD model 55 EA w/Boot.

LLOYD INDUSTRIES INC -- Model CRD 50-BT, CRD 50-EA-BT, CRD 55-BT, CRD 55 EA-BT

4A. Alternate Ceiling Damper* - (Optional) -- For use with min 18 in. deep trusses Max plenum box size nom 13 in. long by 13 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 100 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.

LLOYD INDUSTRIES INC -- Model CRD 50-BT-6, CRD 50-EA-BT-6, CRD 55-BT-6, CRD 55 EA-BT-6

3. Batts and Blankets* — (Optional) -Glass fiber insulation, secured to the wood structural panels with staples spaced 12 in. OC or to the trusses with 0.090 in. diam galv steel wires spaced 12 in. OC. Any glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance, having a min density of 0.5 pcf. As an option, the insulation may be fitted in the concealed space, draped over the resilient channel/gypsum wallboard ceiling membrane when resilient channels and gypsum wallboard attachment is modified as specified in Items 6 and 7. The finished rating has only been determined when the insulation is secured to the decking.

3A. Loose Fill Material* — As an alternate to Item 3 — Any thickness of loose fill material bearing the UL Classification Marking for Surface Burning Characteristics, having a min density of 0.5 pcf, fitted in the concealed space, draped over the resilient channel/gypsum wallboard ceiling membrane when resilient channels and gypsum wallboard attachment is modified as specified in Items 6 and 7. The finished rating when loose fill material is used has not been determined.

4. Air Duct* — Any UL Class 0 or Class 1 flexible air duct installed in accordance with the instructions provided by the damper manufacturer.

5. Damper* — Max nom 20 in. long by 18 in. wide by 2-1/8 in. high, fabricated from galvanized steel. Plenum box maximum size nom 21 in. long by 18 in. wide by 16 in. high fabricated from either galvanized steel or Classified Air Duct Materials bearing the UL Class 0 or Class 1 rigid air duct material. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 360 sq in. per 100 sq ft of ceiling area. ATLAS AIR CONDITIONING CO L P — Types 0856, 0856D, 0857, 0857D, 0857FP, 0857DFP.

MANUFACTURED AIR PRODUCTS — Models CRD-7, -8, -9, -10, -11, followed by suffix AA, NI, RM, or SM.

NALOR INDUSTRIES INC — Types 0755, 0755A, 0756, 0756D, 0757, 0757D, 0757FP, 0757DFP, 0758, 0759, 0760, 0761, 0762, CRD5, CRD5D, CRD6, CRD6D, CRD6FP, CRD6DFP.

ROYAL METAL PRODUCTS INC — Models 241FRD, 243FRD, 505RD, 507RD, 509.

SHERER MFG INC — Models FRDB, TTRDB, RDB Type T, SRDB, RDB Type S.

6. Furring Channels — Resilient channels, nom. 1/2 in. deep by 2-3/8 in. wide at the base and 1-3/8 in. wide at the face, formed from 0.020 in. thick galv steel, spaced 16 in. OC, installed perpendicular to trusses. When batt and blanket material, Item 3, is draped over the resilient channel/gypsum wallboard ceiling membrane, the spacing shall be 12 in. OC. Channels secured to each truss with 1-1/4 in. long Type S steel screws. Channels overlapped 4 in. at splices. Channels oriented opposite at wallboard but joints (spaced 6 in. OC) as shown in the above illustration.

7. Wallboard, Gypsum* — Nom 5/8 in. thick, 48 in. wide, installed with long dimension perpendicular to resilient channels with 1 in. long Type S screws spaced 12 in. OC and located a min of 1/2 in. from side joints and 3 in. from the end joints. At end joints, two resilient channels are used, extending a min of 6 in. beyond both ends of the joint. When batt and blanket insulation, Item 3, is draped over the resilient channel/gypsum wallboard ceiling membrane, screws shall be installed at 8 in. OC.

CANADIAN GYPSUM COMPANY — Types C, IP-X2, IPC-AR

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

8. Finishing System — (Not Shown) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum wallboard.

9. NOT USED

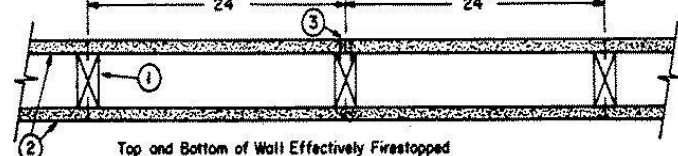
10. NOT USED

*Bearing the UL Classification Mark

Design No. U314

November 13, 2003

Bearing Wall Rating — 1 HR.
Finish Rating — 26 Min.



1. Wood Studs — Nom 2 by 4 in., spaced 24 in. OC, effectively fire stopped.

2. Gypsum Board* — 5/8 in. thick, 4 ft wide. Gypsum boards nailed to studs and bearing plates 7 in. OC with 6d cement coated nails, 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam head.

CANADIAN GYPSUM COMPANY — Types AR, IP-AR, IP-X1, SCX, SHX, WRX.

UNITED STATES GYPSUM CO — Type AR, FRX-G, IP-AR, IP-X1, SCX, SHX or WRX.

USG MEXICO S A DE C V — Type AR, IP-AR, IP-X1, SCX, SHX or WRX.

2A. NOT USED

2B. NOT USED

3. Joints and Nailheads — Wallboard joints covered with paper tape and joint compound. Nailheads covered with joint compound. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced.

4. Steel Corner Fasteners — (Optional) — For use at wall corners. Channel shaped, 2 in. long by 1 in. high on the back side with two 1/8 in. wide flats protruding into the 5/8 in. wide channel, fabricated from 24 gauge galv steel. Fasteners applied only to the end or cut edge (not along tapered edges) of the wallboard, no greater than 2 in. from corner of wallboard, max spacing 16 in. OC. Nailed to adjacent stud through tab using one No. 6d cement coated nail per fastener. Corners of wallboard shall be nailed to top and bottom plate using No. 6d cement coated nails.

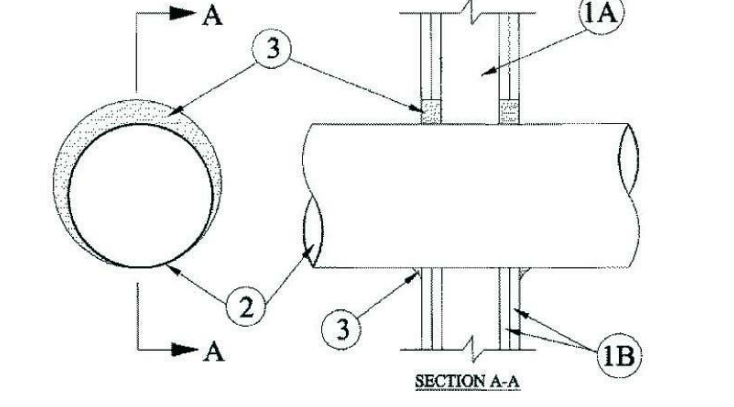
5. NOT USED

*Bearing the UL Classification Marking.

System No. W-L-7042

November 30, 2000

F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr



1. Wall Assembly — The 1 or 2 hr fire rated wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced 24 in. OC.

B. Gypsum Board* — For 1 hr assembly, one layer of min 5/8 in. thick wallboard as required in the individual Wall and Partition Design.

The hourly F and T Ratings of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. Through Penetrant — Galv steel duct to be installed concentrically or eccentrically within the firestop system. The annular space between the duct and periphery of opening shall be minimum 0 in. (point contact) and max 1-1/2 in. Duct to be rigidly supported on both sides of wall assembly.

A. NOT USED

B. Sheet Metal Duct — Nom 12 in. diam (or smaller) No. 28 MSG (or heavier) galv sheet steel duct.

3. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. and 1-1/4 in. thickness of fill material applied within annulus, flush with both surfaces of wall assembly for 1 or 2 hr rated walls, respectively. At the point contact location between duct and wallboard, a min 1/2 in. diam bead of sealant shall be applied at the wallboard/duct interface on both surfaces of wall assembly.

HILTI CONSTRUCTION CHEMICALS, DIV OF

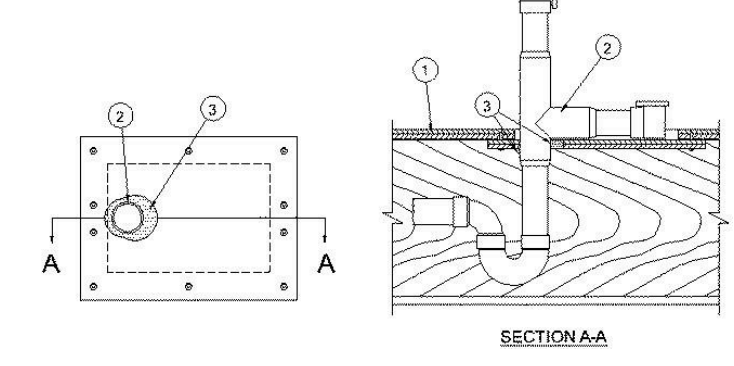
HILTI INC — CP601S Elastomeric Firestop Sealant, FS-ONE Sealant or CP606 Flexible Firestop Sealant

*Bearing the UL Classification Mark

System No. F-C-2204

January 21, 2015

F Rating — 1 Hr
T Rating — 1/2 Hr



1. Floor — Ceiling Assembly — The 1 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The general construction features of the floor-ceiling assembly are summarized below.

A. Flooring System — Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture* as specified in the individual Floor-Ceiling Design. Rectangular cutout in flooring to accommodate the bathtub drain piping (Item 2) to be max 8 in. by 12 in. (203 by 305 mm). Cutout to be patched on underside of subfloor using one layer of min 3/4 in. (19 mm) thick plywood or min 5/8 in. (16 mm) thick gypsum board (Item 1C) sized to lap min 2 in. (51 mm) beyond each edge of rectangular cutout. Patch split into two pieces at opening and hole-sawed for bathtub drain piping. Diam of opening hole sawed through patch to accommodate drain piping (Item 2) to be 1 in. (25 mm) larger than outside diam of drain piping and positioned such that the annular space between drain piping and periphery of opening is min 0 in. (point contact) to max 1 in. (25 mm). Two pieces positioned around drain piping, with cut edges tightly butted, and screw-attached to underside of subfloor with 1-1/4 in. (32 mm) long steel screws spaced max 6 in. (152 mm) OC.

B. Wood Joists* — Nom 10 in. (154 mm) deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members* with bridging as required and with ends firestopped.

C. Gypsum Board* — Nom 5/8 in. (16 mm) thick, 4 ft (122 cm) wide as specified in the individual Floor-Ceiling Design.

2. Drain Piping — Nom 1-1/2 in. (38 mm, or smaller) diam Schedule 40 acrylonitrile butadiene styrene (ABS) or polyvinyl chloride (PVC) pipe and drain fittings cemented together and provided with ABS or PVC bathtub waste/overflow fittings. Annular space shall be min 0 in. (point contact) to max 1 in. (25 mm).

3. Fill, Void or Cavity Materials* — Min 5/8 in. (16 mm) depth or fill material applied within annulus, flush with both surfaces of plywood or gypsum board patch.

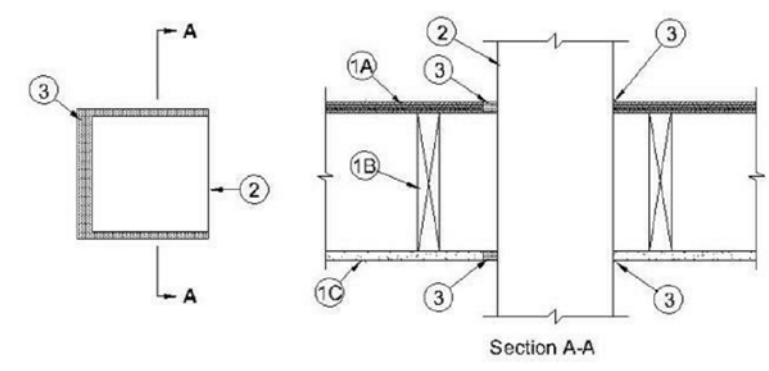
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE-MAX Intumescent Sealant

*Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or c

System No. F-C-7043

January 21, 2015

ANSI/UL1479 (ASTM E814)		CANULC S116	
F Rating — 1 Hr	FT Rating — 1/4 Hr	F Rating — 1 Hr	FT Rating — 1/4 Hr
PH Rating — 1/4 Hr	FT Rating — 1 Hr	PH Rating — 1 Hr	FT Rating — 1 Hr



1. Floor-Ceiling Assembly — The 1 hr fire rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Design in the UL Fire Resistance Directory. The general construction features of the floor-ceiling assembly are summarized below:

A. **Flooring System** — Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture* as specified in the individual Floor-Ceiling Design. Max area of opening shall be 143 in.2 (923 cm²) with a max dimension of 13 in. (330mm).

B. **Wood Joists*** — Nom 10 in. (254 mm) deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or **Structural Wood Members*** with bridging as required and with ends firestopped.

C. **Gypsum Board*** — Min 5/8 in. (16 mm) thick as specified in the individual Floor-Ceiling Design. Gypsum board secured to wood joists or furring channels as specified in the individual Floor-Ceiling Design. Max area of opening shall be 143 in.2 (923 cm²) with a max dimension of 13 in. (330mm).

2. Steel Duct — Max 12 by 10 in. (305 by 254 mm) No. 28 ga. (or heavier) galv steel duct to be installed either concentrically or eccentrically within the firestop system. The space between the steel duct and periphery of opening shall be min 0 in. (point contact) to max 1 in. (25 mm). Steel duct to be rigidly supported on both sides of the floor-ceiling assembly.

3. Firestop System — Min 3/4 in. (19 mm) thickness of sealant applied within the annulus flush with the top surface of the floor. Min 5/8 in. (16 mm) thickness of sealant applied within the annulus flush with the bottom surface of gypsum board ceiling.

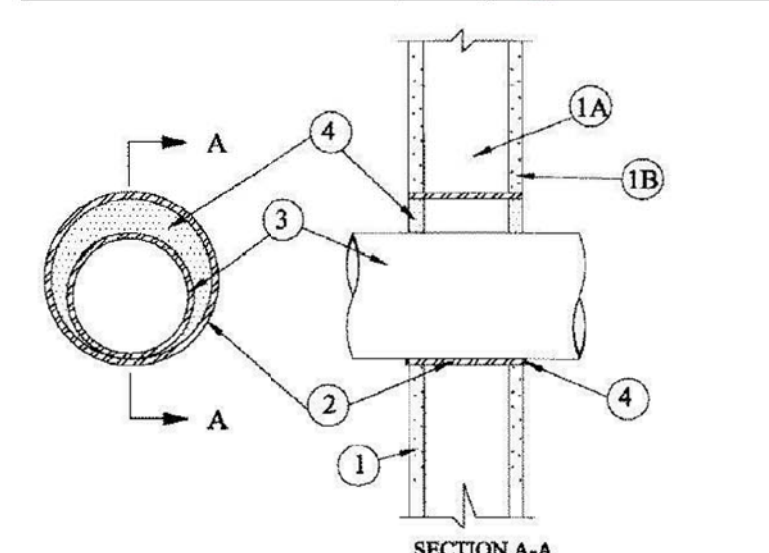
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 606 Flexible Firestop Sealant or FS-One Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. W-L-1164

January 22, 2015

ANSI/UL1479 (ASTM E814)		CANULC S116	
F Ratings — 1 and 2 Hr (See Item 1 and 4)	F Ratings — 1 and 2 Hr (See Items 1 and 4)	FT Rating — 0 Hr	FT Rating — 0 Hr
PH Rating — 0 Hr	PH Rating — 0 Hr	FT Rating — 1 and 2 Hr (See Items 1 and 4)	FT Rating — 1 and 2 Hr (See Items 1 and 4)



1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400, V400 or W400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs** — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. Steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wide and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.

B. **Gypsum Board*** — The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening in steel stud walls is 32 in. (813 mm). Max diam of openings in wood stud walls is 14-1/2 in. (368 mm).

The hourly F, FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

2. Steel Sleeve — Nom 32 in. (813 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe sleeve friction fit in nom 32 in. (813 mm) diam circular opening cut through gypsum board layers. Length of steel sleeve to be equal to thickness of wall.

3. Through-Penetrant — One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and the steel sleeve shall be min of 0 in. (point contact) to max 1-7/8 in. (48 mm) Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. **Steel Pipe** — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe** — Nom 30 in. (762 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe or Class 50 (or heavier) ductile iron pressure pipe.

C. **Conduit** — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.

D. **Copper Tubing** — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.

E. **Copper Pipe** — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

4. Fill, Void or Cavity Material* - Sealant — Min 5/8 in. (16 mm) and 1-1/4 in. (32 mm) thickness of fill material applied within annulus, flush with both surfaces of wall assembly for 1 or 2 hr rated walls, respectively. Min 1/2 in. (13 mm) diam bead of caulk applied to the penetrant/gypsumboard interface at the point contact location on both sides of wall.

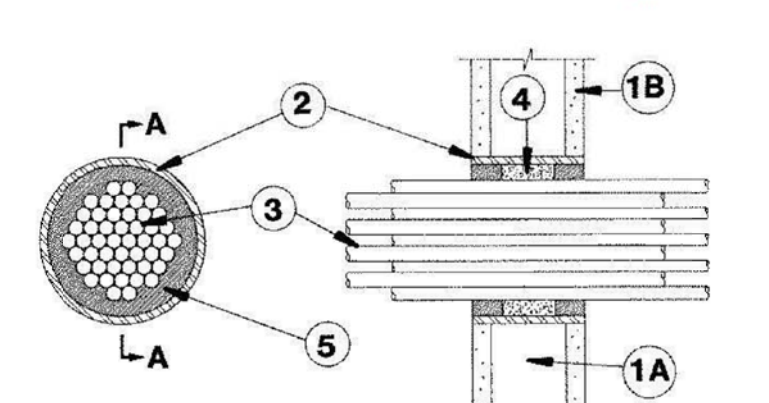
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. W-L-3046

January 23, 2015

ANSI/UL1479 (ASTM E814)		CANULC S116	
F Rating — 1 Hr	FT Rating — 1 Hr	F Rating — 1 Hr	FT Rating — 1 Hr
T Rating — 1/2 Hr	FT Rating — 1/2 Hr	PH Rating — 1 Hr	FT Rating — 1 Hr



1. Wall Assembly — The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs** — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.

B. **Gypsum Board*** — One layer of 5/8 in. (16 mm) thick gypsum wallboard, as specified in the individual Wall and Partition Design. Max diam of opening is 6 in. (152 mm).

2. Metallic Sleeve — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 (or thinner) steel pipe cast into wall assembly with joint compound and installed flush with wall surface.

3. Cables — Max 7/C No. 12 AWG cables with polyvinyl chloride jacket and insulation. Aggregate cross-sectional area of tightly bundled cable group to be 33 percent of the aggregate cross-sectional area of the opening. Cables to be rigidly supported on both sides of wall assembly.

4. Packing Material — Min 2-3/4 in. (70 mm) thickness of min 4.0 (64 kg/m³) pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material.

5. Fill, Void or Cavity Material* - Sealant — Min 1 in. (25 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall.

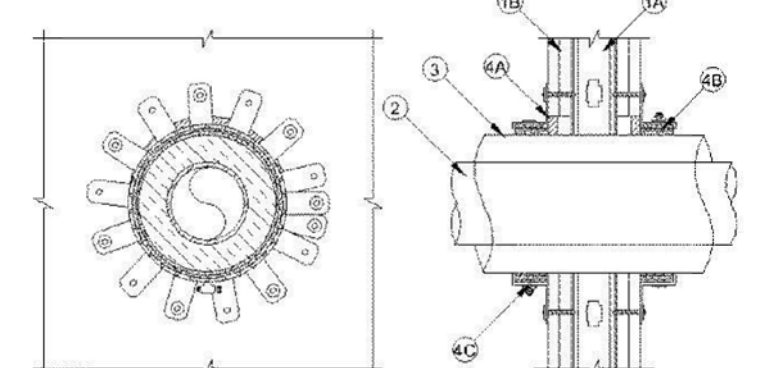
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. W-L-5225

January 23, 2015

ANSI/UL1479 (ASTM E814)		CANULC S116	
F Rating — 1 or 2 Hr (See Item 1)	F Rating — 1 or 2 Hr (See Item 1)	T Rating — 0, 1, 1-1/2 or 2 Hr (See Item 3)	T Rating — 0, 1, 1-1/2 or 2 Hr (See Item 3)



System tested with a pressure differential of 2.5 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

1. Wall Assembly — The fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs** — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.

B. **Gypsum Board*** — Thickness, type and number of layers as specified in the individual Wall and Partition Design. Max diam of opening is 6-1/2 in. (178 mm).

The hourly F, FH Ratings of the firestop system are equal to the hourly assembly rating of the wall assembly in which it is installed.

2. Through Penetrants — One nonmetallic pipe or conduit to be centered within the firestop system. Pipe to be rigidly supported on both sides of wall. The following types and sizes of pipes may be used:

A. **Polyvinyl Chloride (PVC) Pipe** — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste, or vent) piping systems.

B. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** — Nom 4 in. (102 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.

3. Pipe Covering* — Nom 1-1/2 in. (38 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m³) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. A nom annular space of min 0 in. (point contact) to max 1 in. (25 mm) is required within the firestop system.

See **Pipe and Equipment Covering - Materials** (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

3A. Tube Insulation — Plastics* — (Optional for pipes with nom diam of 2 in. (51 mm) or less) Max 1 in. (25 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. The annular space shall be min 1/8 in. to max 1/4 in. (3 to 6 mm).

See **Plastics*** (QMFFZ) category in the Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of 94-V0A may be used.

The hourly T, FT, FTH rating of the firestop system is equal to the hourly assembly rating of the wall assembly in which it is installed unless Item 3 is used and nom pipe size is less than 4 in. (102 mm). For openings with Item 3 glass fiber insulation and pipe sizes less than 4 in. (102 mm), when hourly rating for the wall assembly is 1 hr, the T, FT, FTH rating is 1 hr, and when the hourly rating is of the wall assembly is 2 hr, then the T, FT, FTH Rating is 1-1/2 hr. The T, FT, FTH Rating is 0 hr if Item 3A is less than 1 in. (25 mm) thick.

4. Firestop System — The firestop system shall consist of the following:

A. **Fill, Void or Cavity Material* - Sealant** — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant

B. **Fill, Void or Cavity Material* - Wrap Strip** — Nom 3/16 in. (5 mm) thick by 1-3/4 in. (44 mm) wide intumescent wrap strip. Layers individually wrapped around the through-penetrant with the ends butted and held in place with tape. Butted ends in successive layers shall be offset. Each wrap strip layer is to be installed flush with both surfaces of wall. Wrap strips are installed on each surface of the wall.

Product Designation	Max Pipe Size, in. (mm)	Number of Layers
CP648-E-W25-1-3/4"	2 (51)	1
CP648-E-W25-1-3/4"	4 (102)	3

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP-648E Wrap Strip

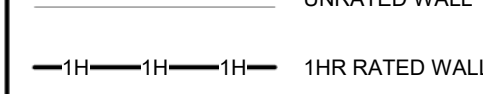
C. **Steel Collar** — Steel collar fabricated from coils of precut min 0.016 in. (0.4 mm) thick (No. 28 gauge) galv steel available from fill material manufacturer. Collar shall be nom 1-3/4 in. (44 mm) deep with 1 in. (25 mm) wide by 2 in. (51 mm) long anchor tabs on 1-3/4 in. (44 mm) centers for securement to both surfaces of wall. In addition, collars contain retainer tabs 1/2 in. (13 mm) wide by 3/16 in. (5 mm) long, located opposite the anchor tabs. Collar shall be tightly wrapped over the wrap strip, overlapping min 1 in. (25 mm) at seam and compressed with a min 0.028 in. (0.7 mm) thick stainless steel band at collar mid-height. The retainer tabs are folded 90 deg towards the pipe to maintain the annular space around the pipe and to retain the wrap strip. Each tab of collar secured to surface of wall by means of nom 1-1/4 in. (32 mm) long steel laminating drywall screws in conjunction with 1-1/4 in. (32 mm) diam steel fender washers.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

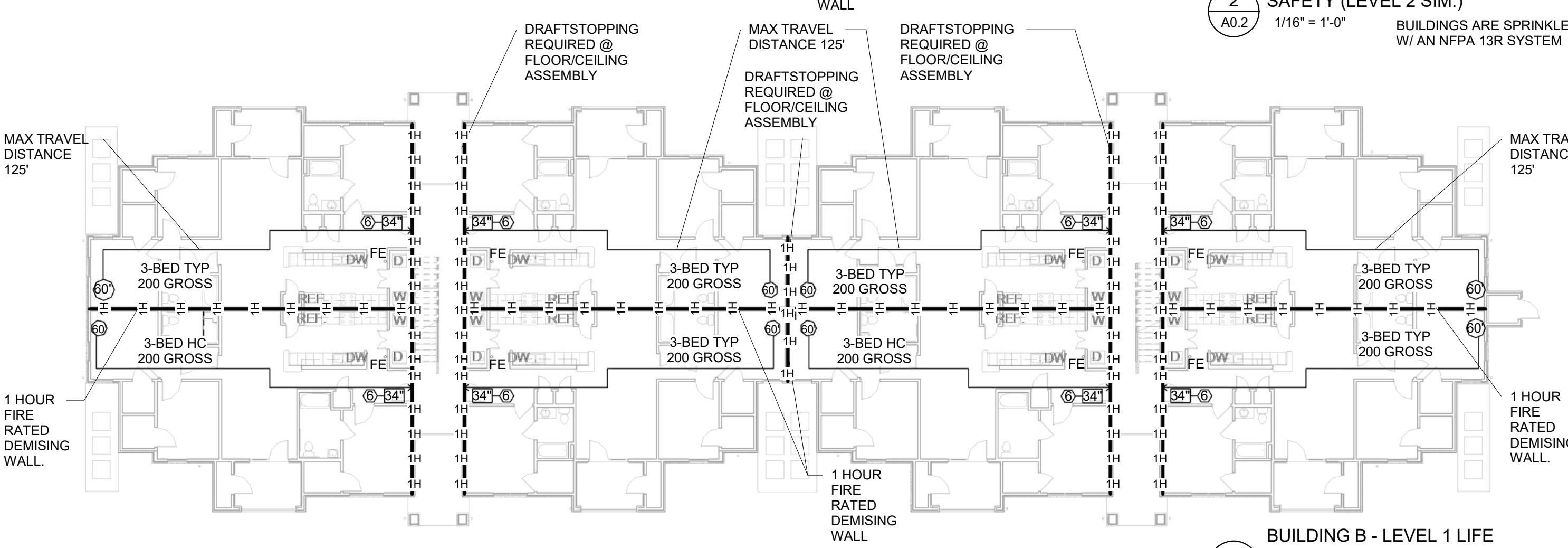
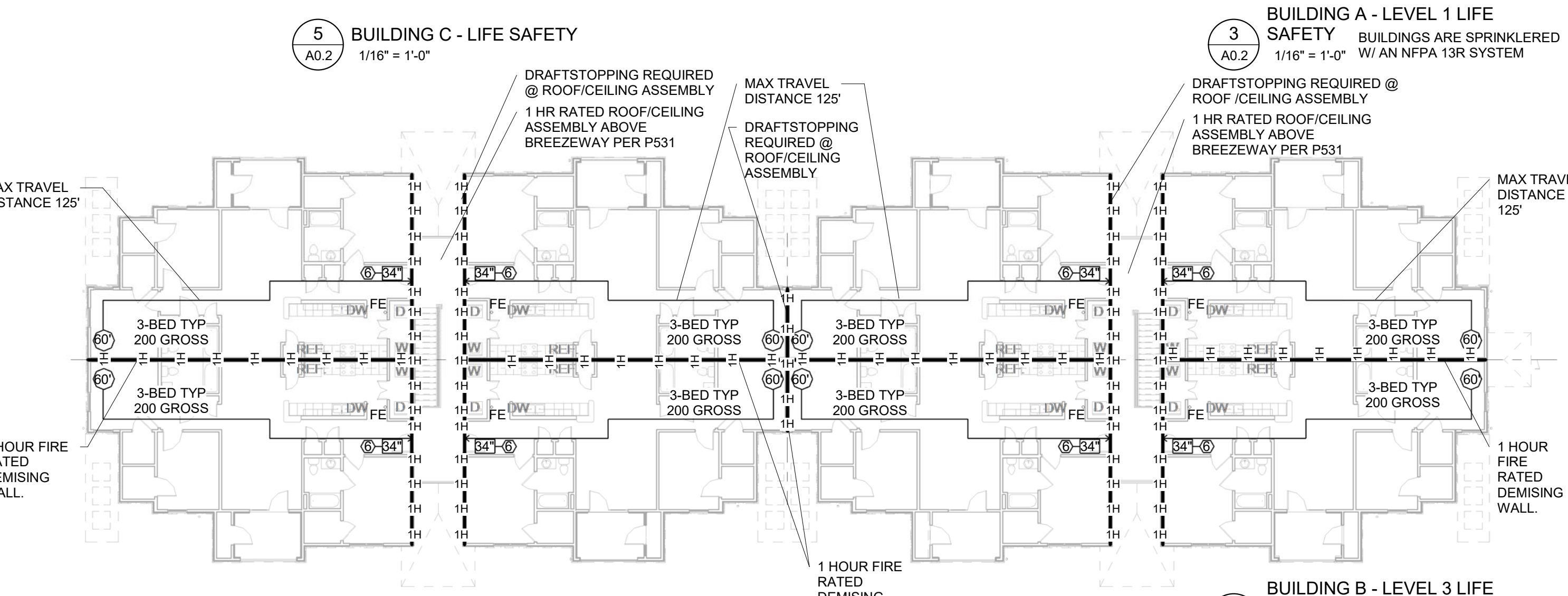
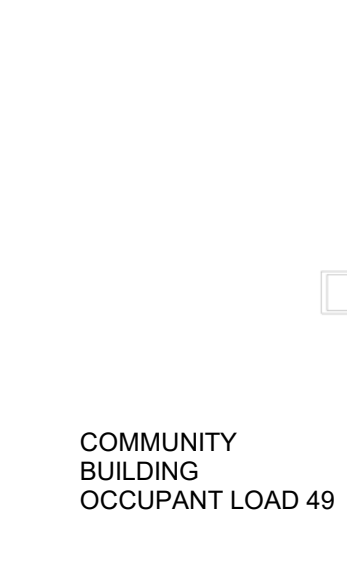
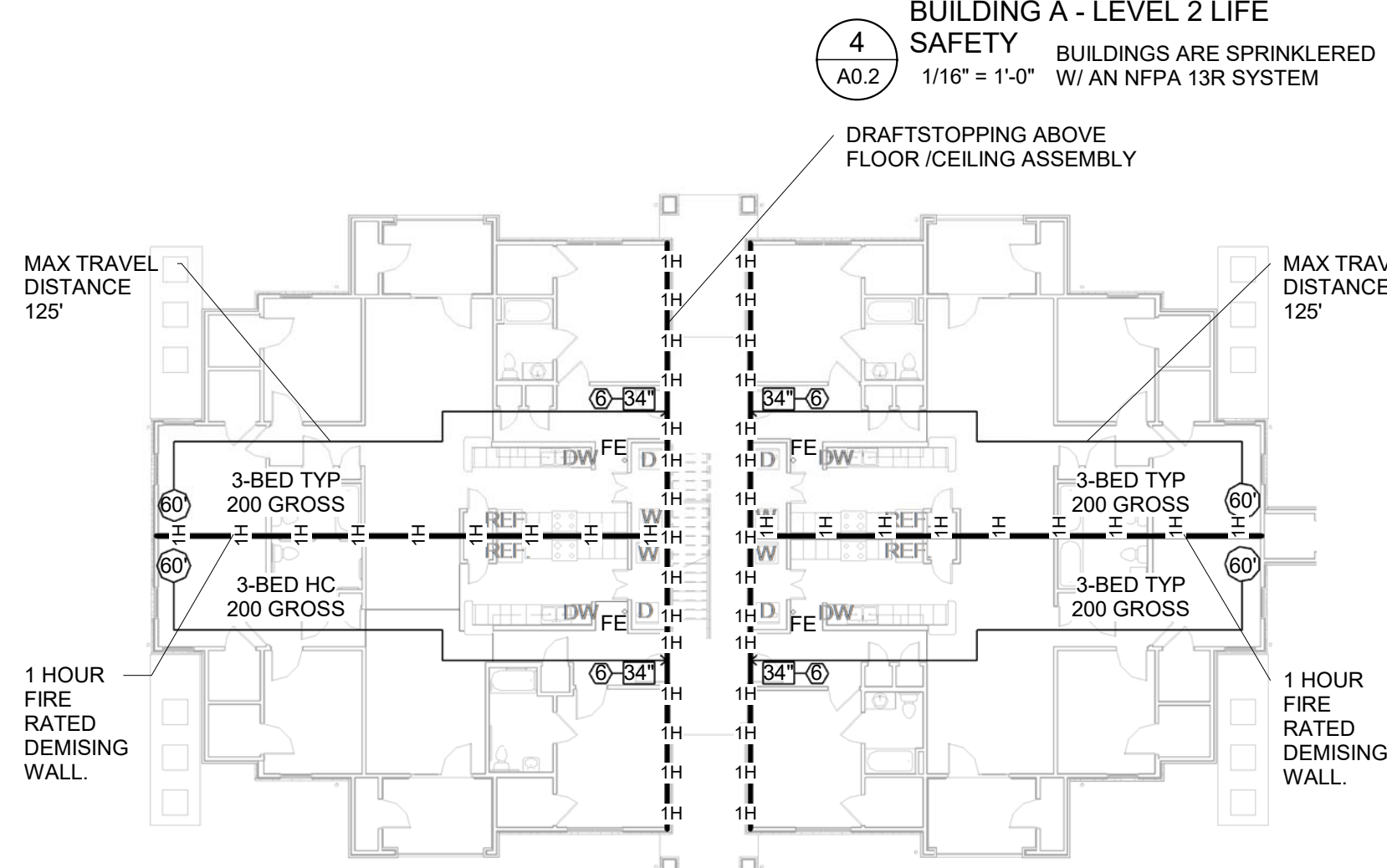
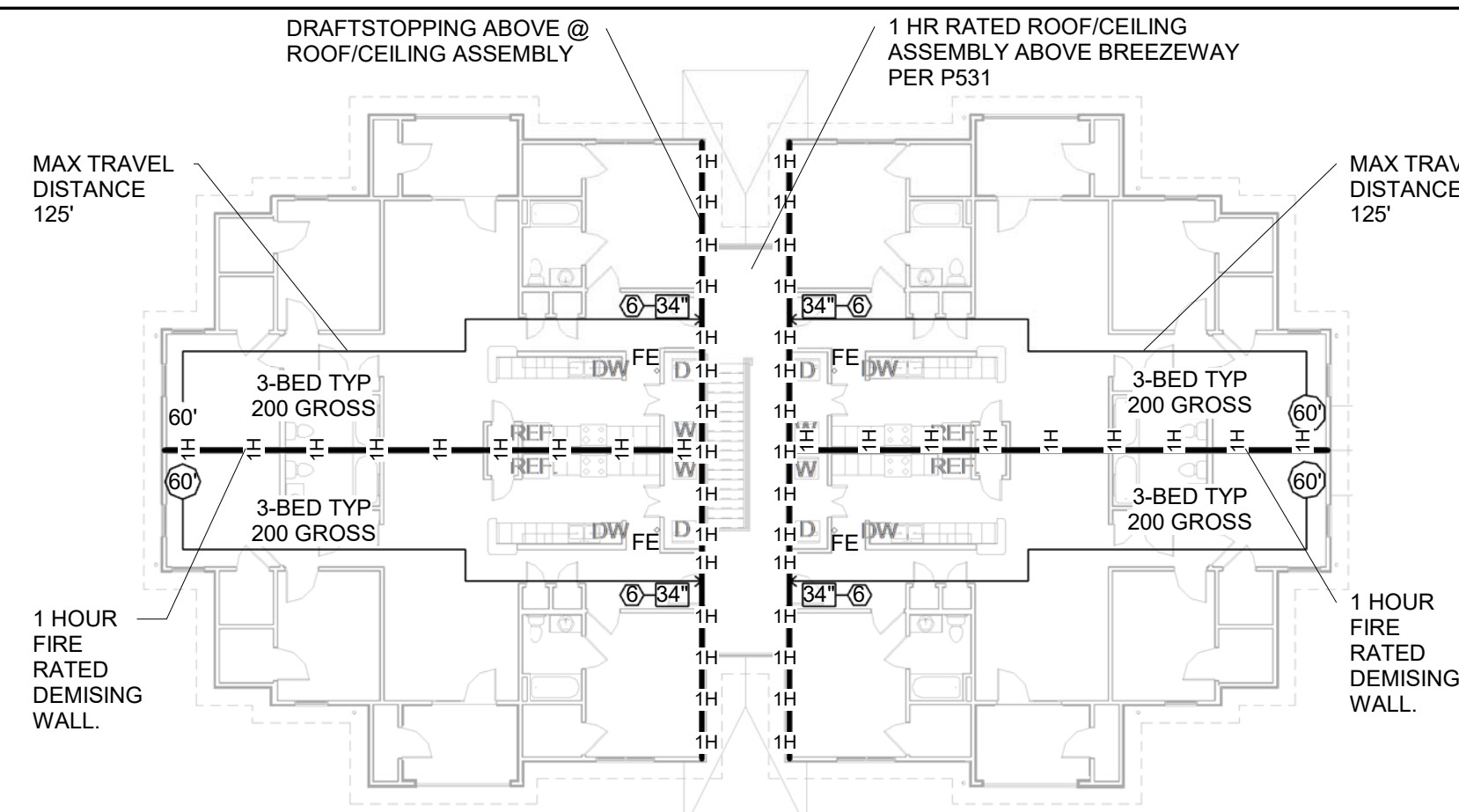
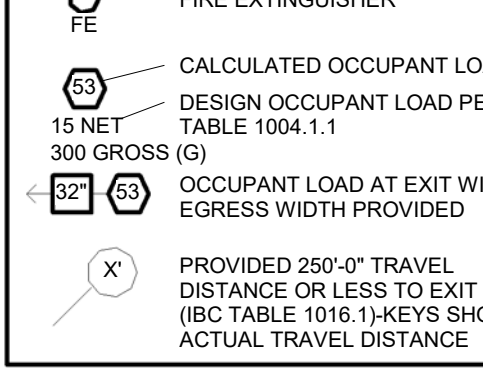
GENERAL NOTES FOR FIRE EXTINGUISHERS

PAR 906.1 PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED IN ALL LOCATIONS AS REQUIRED BY THE INTERNATIONAL FIRE CODE. TRAVEL DISTANCE TO A FIRE EXTINGUISHER SHALL NOT EXCEED SEVENTY-FIVE (75) FEET AND SHALL NOT BE OBSCURED FROM VIEW PER NFPA 10 TABLE 5.2.1

REFERENCE LEGEND



REFERENCE LEGEND



M. BRUCE HERRINGTON
REGISTERED ARCHITECT
No. 2719
ARKANSAS
11-28-11

HERRINGTON ARCHITECTS

101 Richard Arrington Jr. Blvd. S.
Birmingham, Alabama 35233
T 205.326.1131 F 205.326.1164
www.herringtonarchitects.com

DATE 11/20/18 PERMIT SET

PROJECT NUMBER 597

PROJECT The Park at Barton

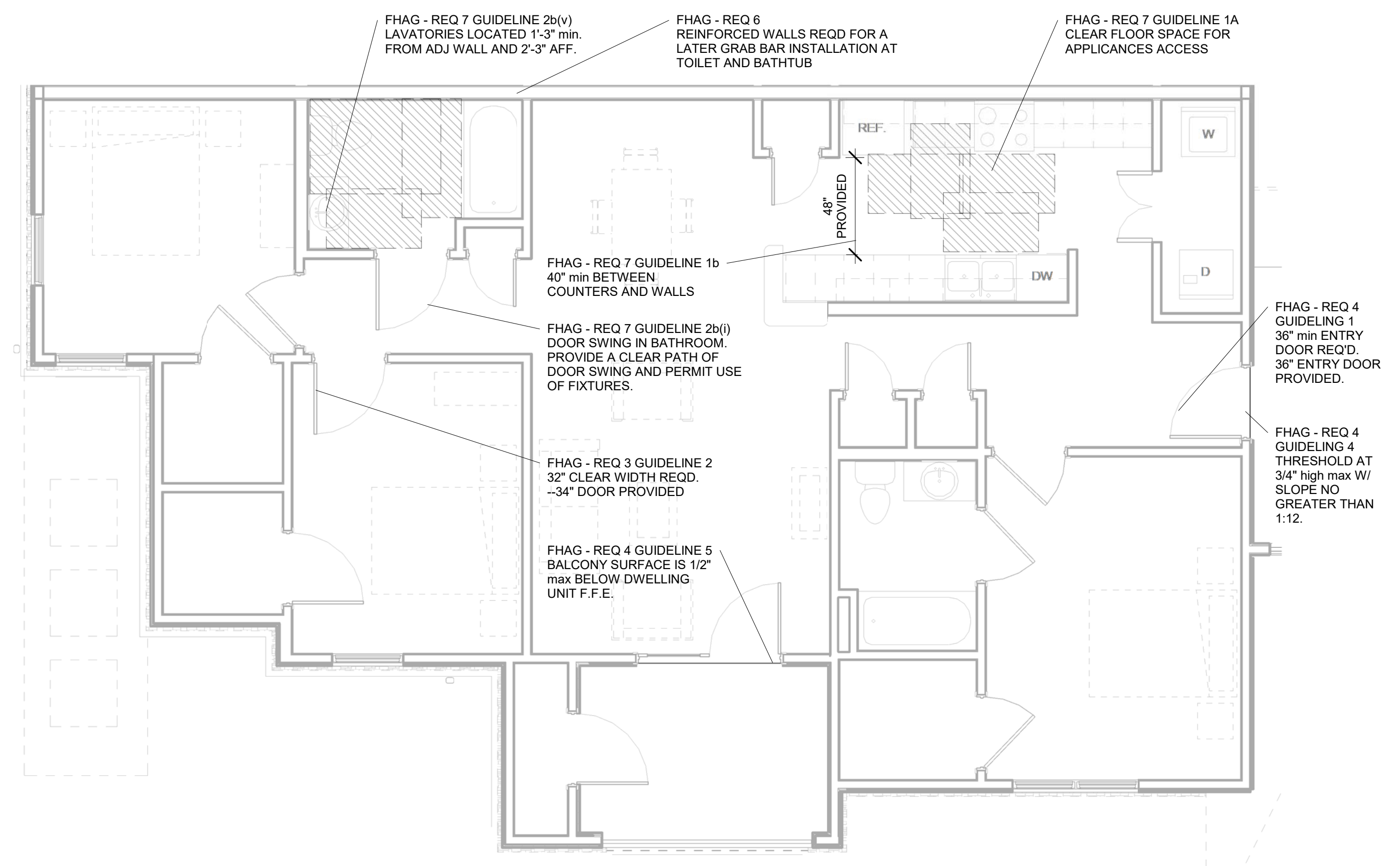
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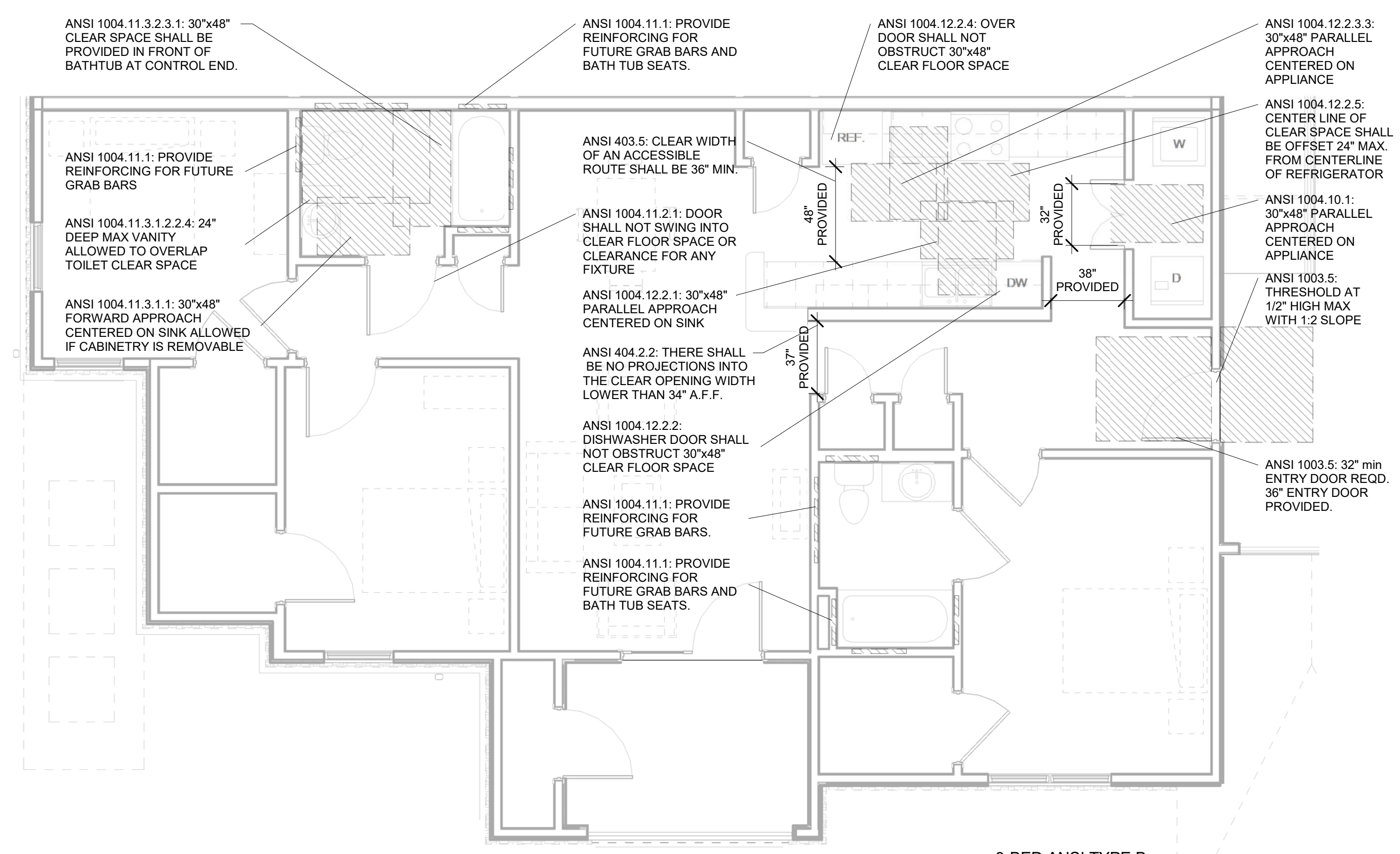
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2
 A0.3 3-BED FHAG REQUIREMENTS
 1/4" = 1'-0"



1
 A0.3 3-BED ANSI TYPE B REQUIREMENTS
 1/4" = 1'-0"

DATE
 1 11/20/18 PERMIT SET

PROJECT NUMBER
597
 PROJECT
 The Park at Barton

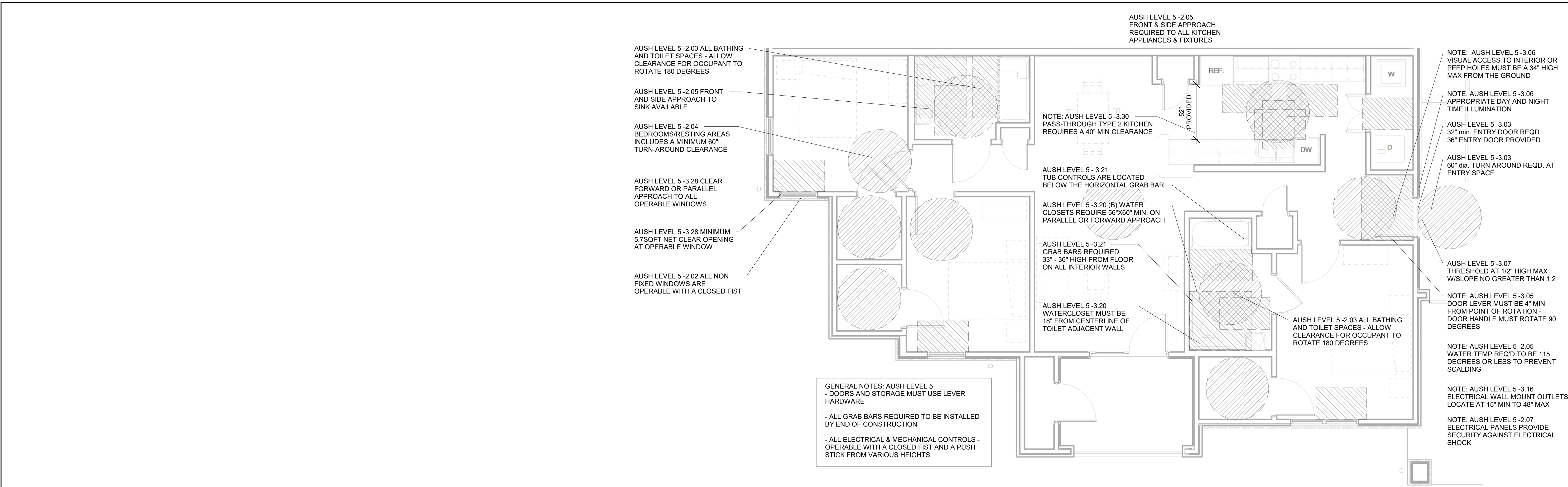
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A0.3

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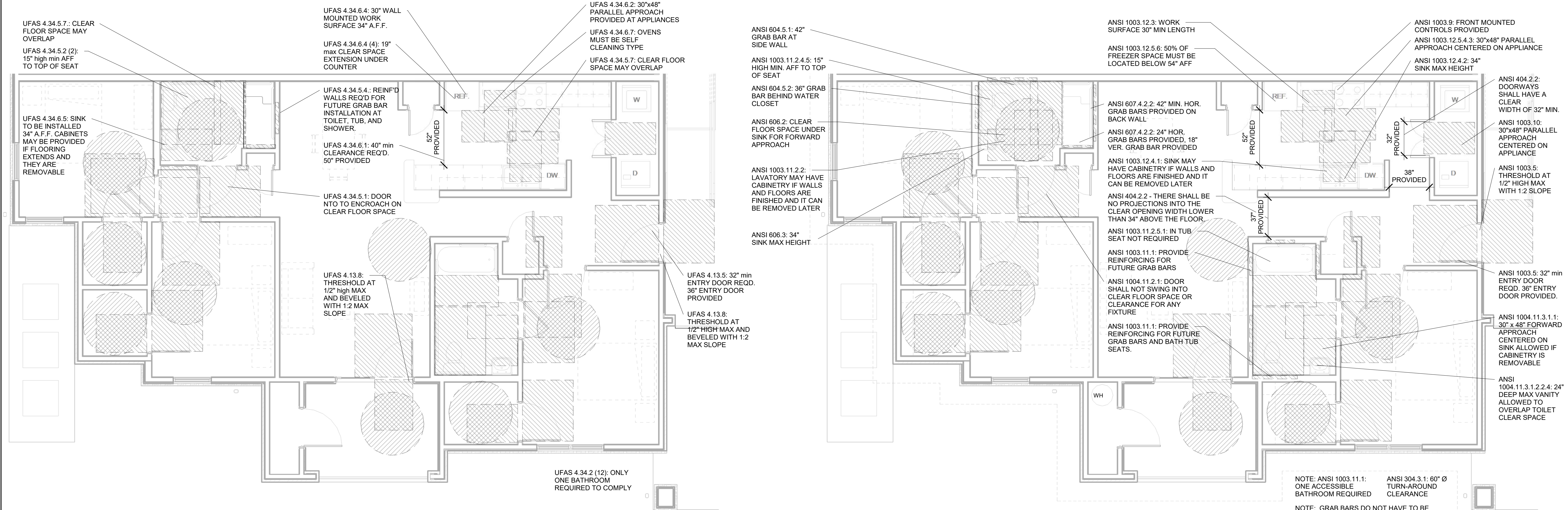


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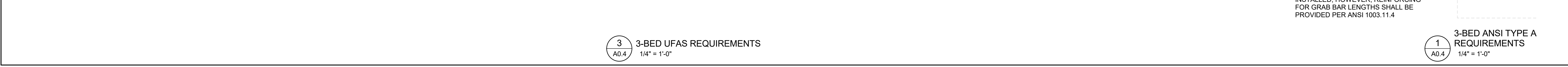


GENERAL NOTES: AUSH LEVEL 5
 - DOORS AND STORAGE MUST USE LEVER HARDWARE
 - ALL GRAB BARS REQUIRED TO BE INSTALLED BY END OF CONSTRUCTION
 - ALL ELECTRICAL & MECHANICAL CONTROLS - OPERABLE WITH A CLOSED FIST AND A PUSH STICK FROM VARIOUS HEIGHTS

2
 A0.4 3-BED AUSH REQUIREMENTS
 1/4" = 1'-0"



3
 A0.4 3-BED UFAS REQUIREMENTS
 1/4" = 1'-0"



1
 A0.4 3-BED ANSI TYPE A REQUIREMENTS
 1/4" = 1'-0"

DATE
 1 11/20/18 PERMIT SET

PROJECT NUMBER
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PROJECT
The Park at Barton

900 E Barton Ave
 West Memphis, AR 72301

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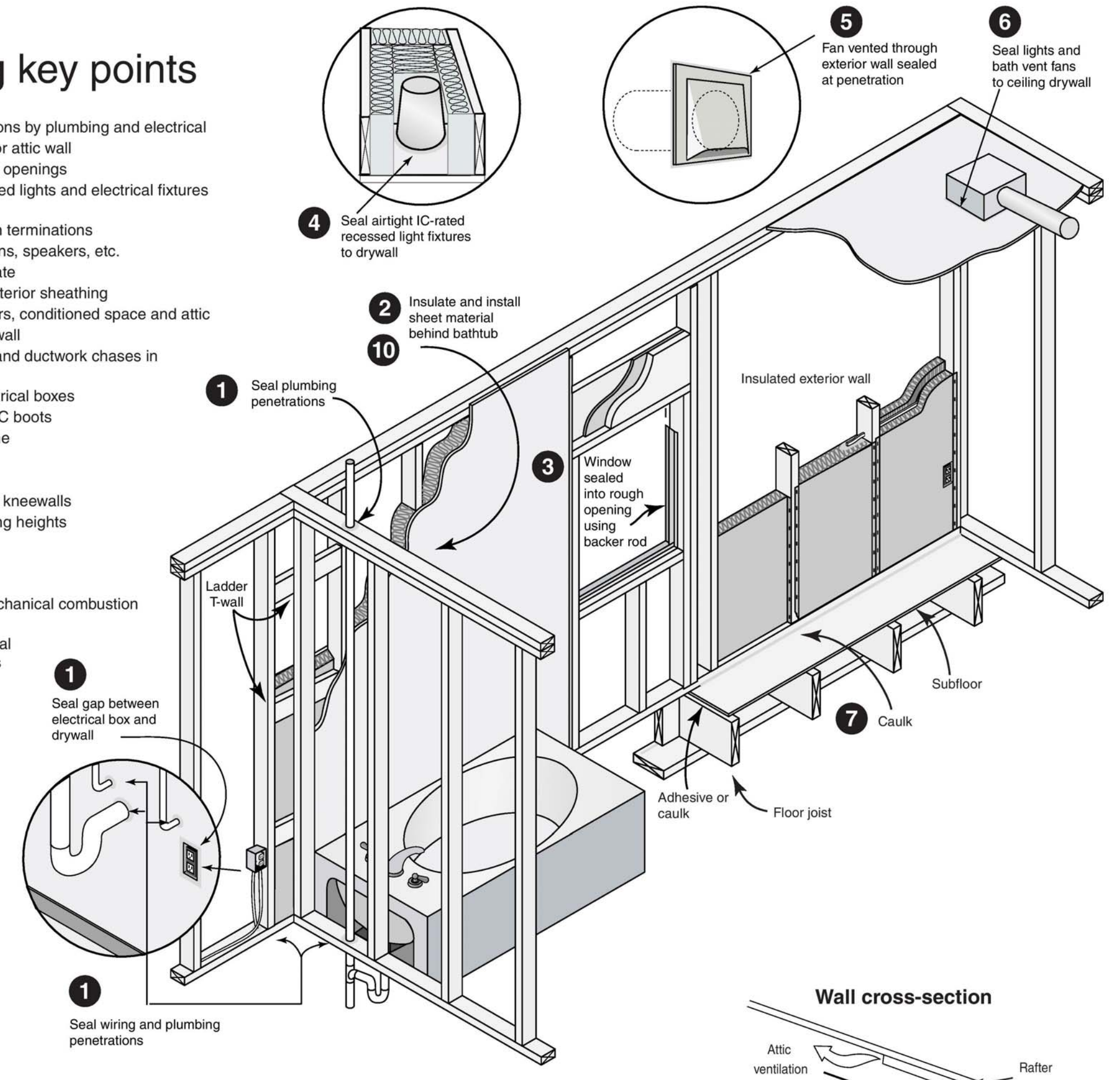
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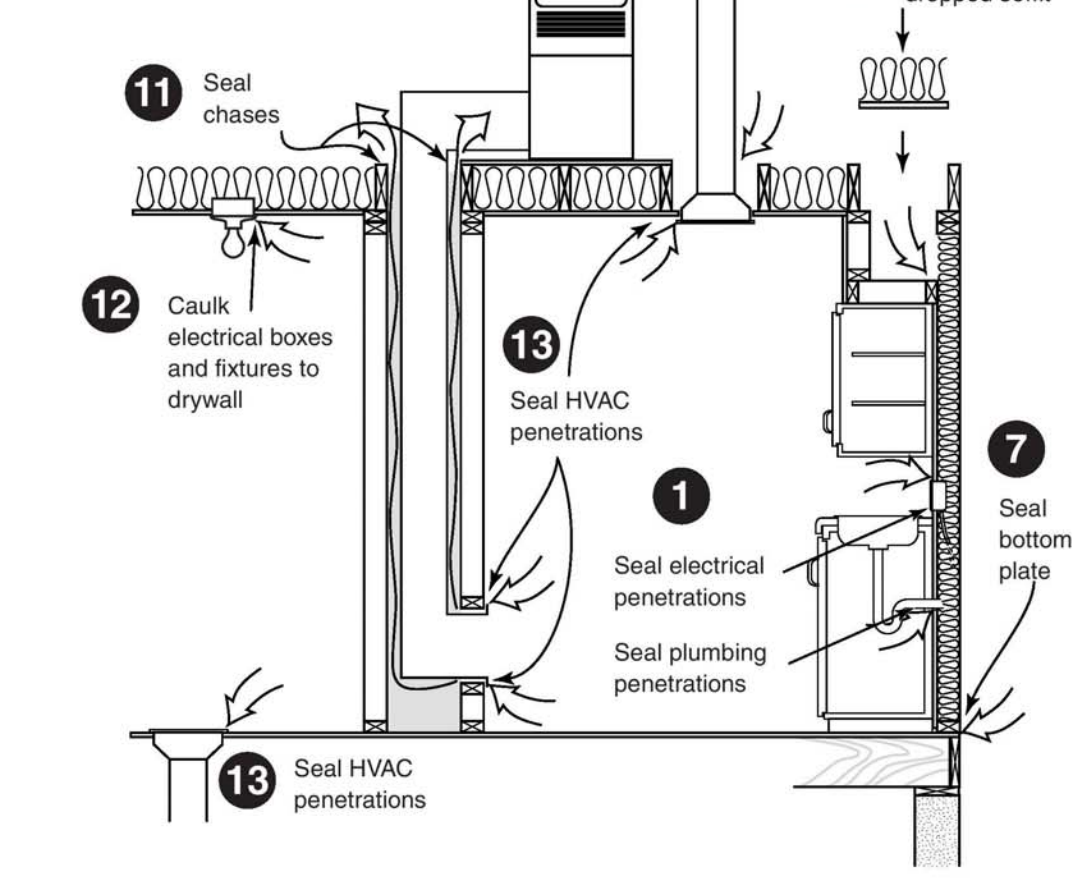
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Appendix Air sealing key points

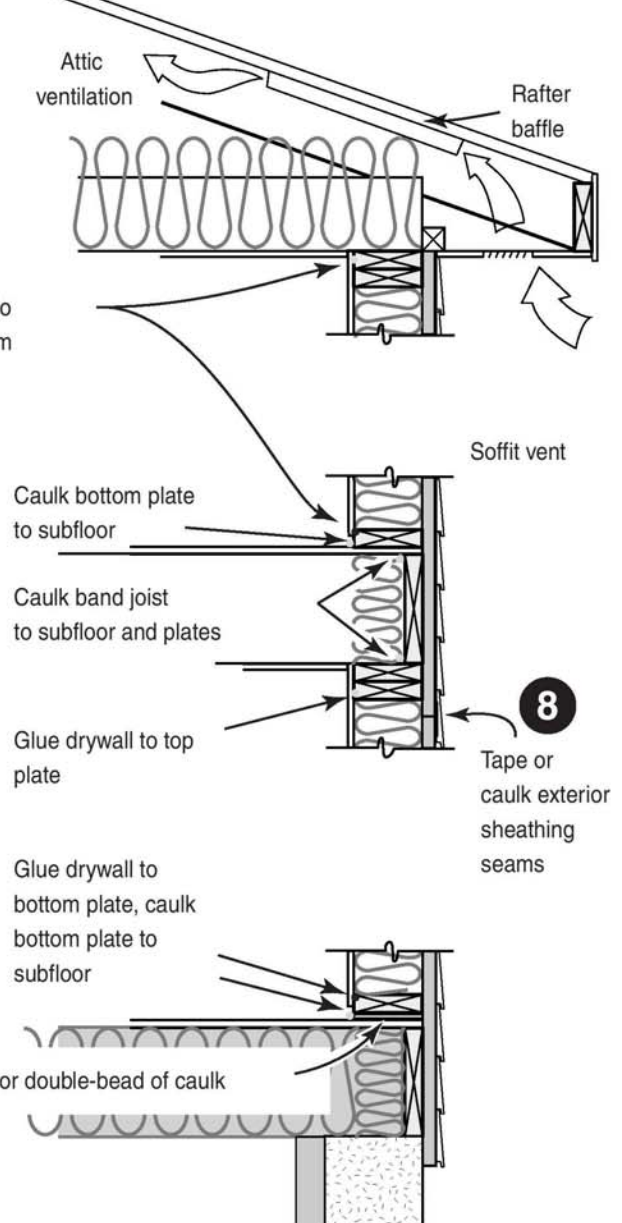
1. Plate and wall penetrations by plumbing and electrical
2. Tub/shower on outside or attic wall
3. Window and door rough openings
4. Airtight, IC-rated recessed lights and electrical fixtures exposed to attic
5. Exterior wall exhaust fan terminations
6. Ceiling mounted bath fans, speakers, etc.
7. Bottom plate and top plate
8. Seams between rigid exterior sheathing
9. Band area between floors, conditioned space and attic
10. Garden tub on exterior wall
11. Mechanical equipment and ductwork chases in attics, crawlspaces
12. Ceiling/crawlspace electrical boxes
13. Ceiling/crawlspace HVAC boots
14. Shower and tub drain line
15. Fireplace inserts
16. Attic kneewall doors
17. Joist cavities under attic kneewalls
18. Transition between ceiling heights (e.g., 10' to 8')
19. Attic scuttle hole
20. Attic pull-down stairs
21. Wall penetrations of mechanical combustion closets
22. Thresholds at mechanical combustion closet doors
23. Band joist exposed to exterior
24. Band area exposed to unconditioned space (such as basement or garage)
25. Exterior wall penetrations for refrigeration lines, condensate line, etc.



Chases and common by-passes

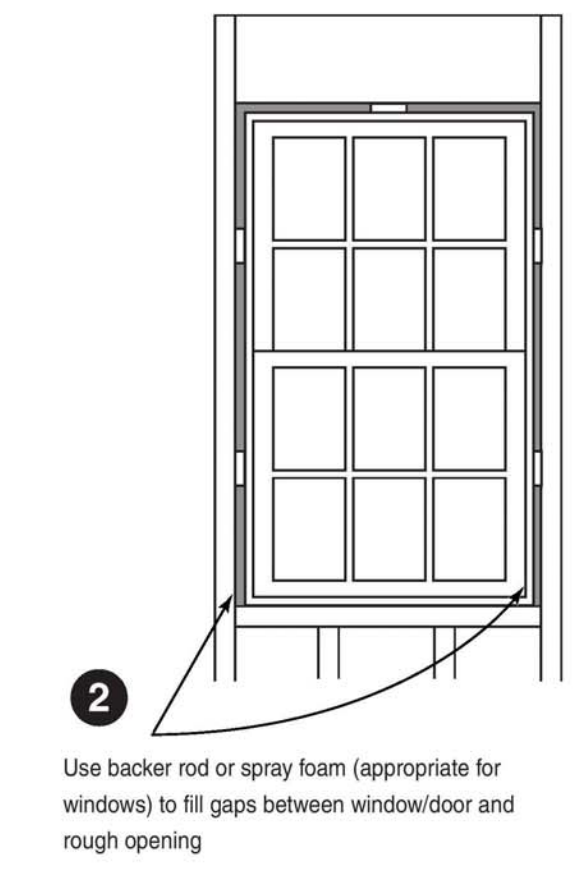


Wall cross-section

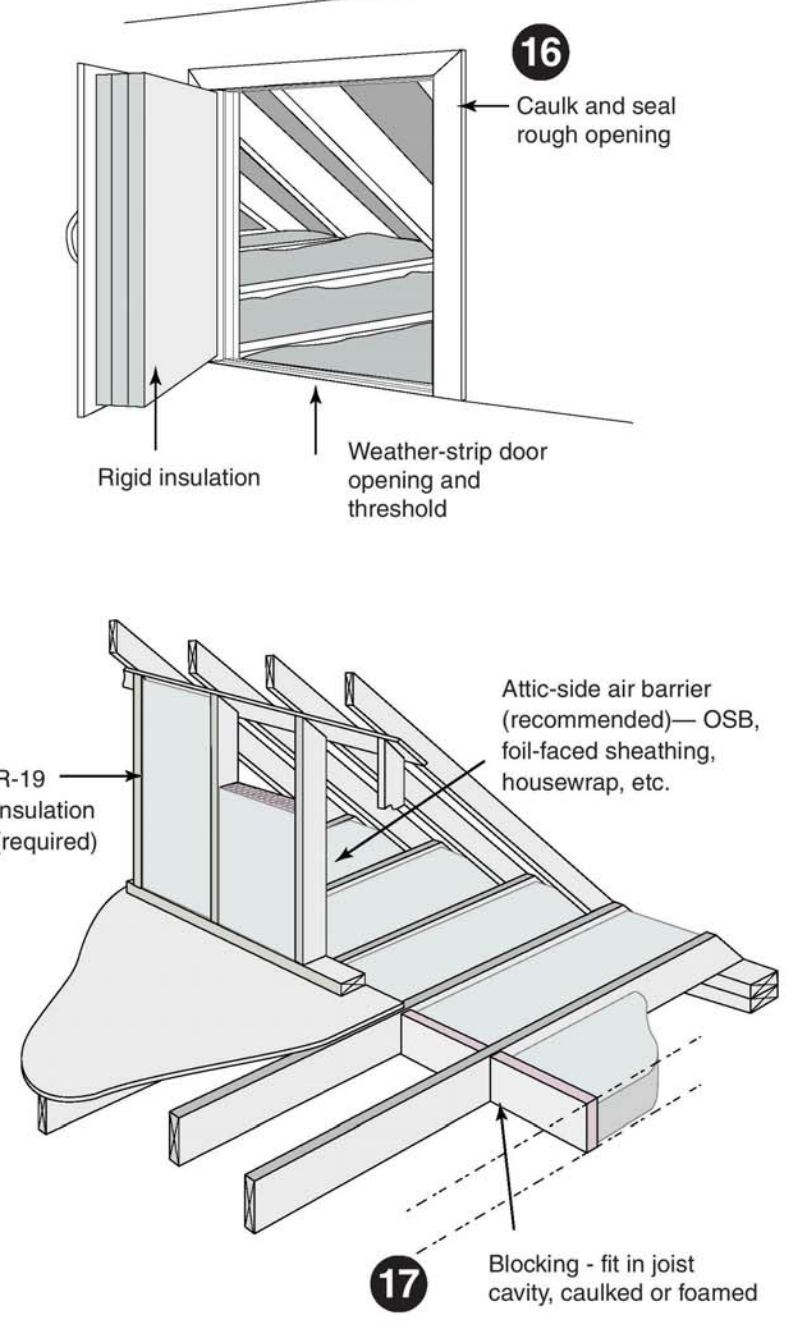


Appendix Air sealing key points continued

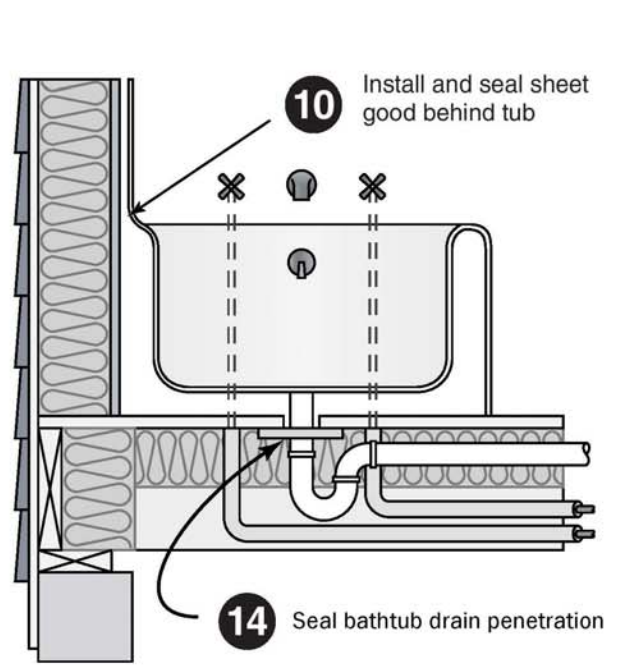
Window rough opening



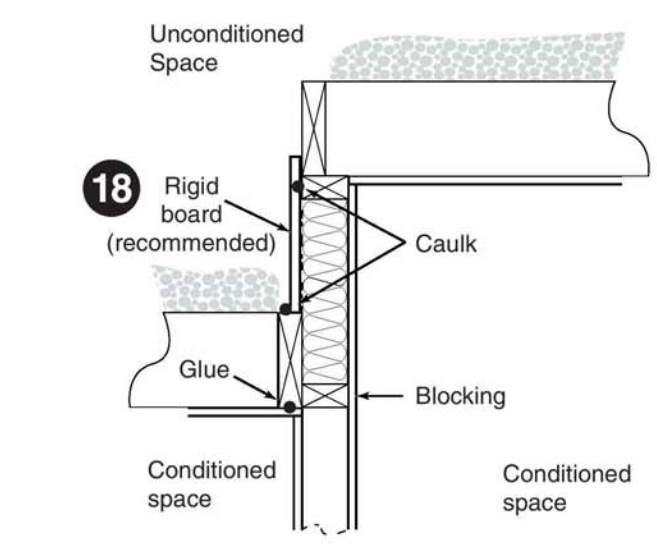
Attic knee-walls



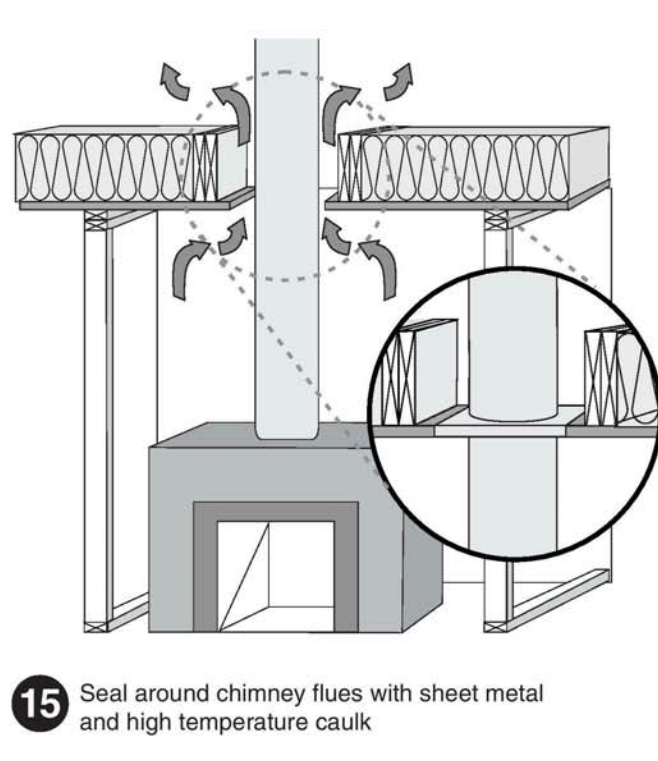
Shower/tub drain rough opening



Two-level attic

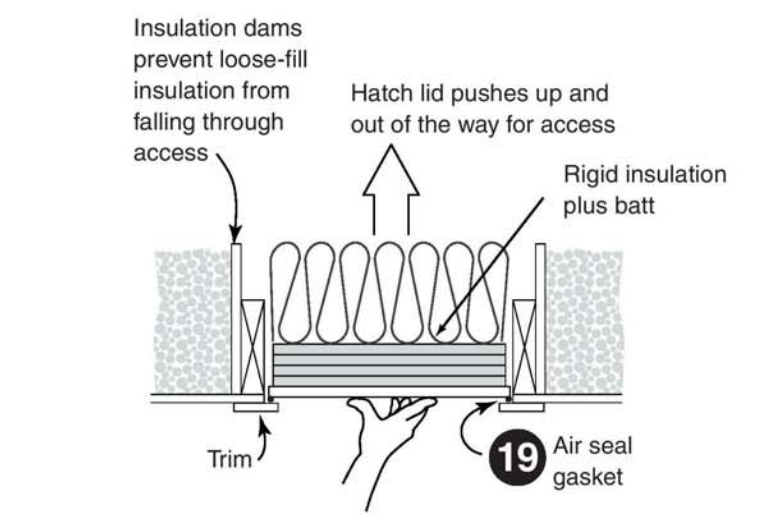


Combustion chase penetrations

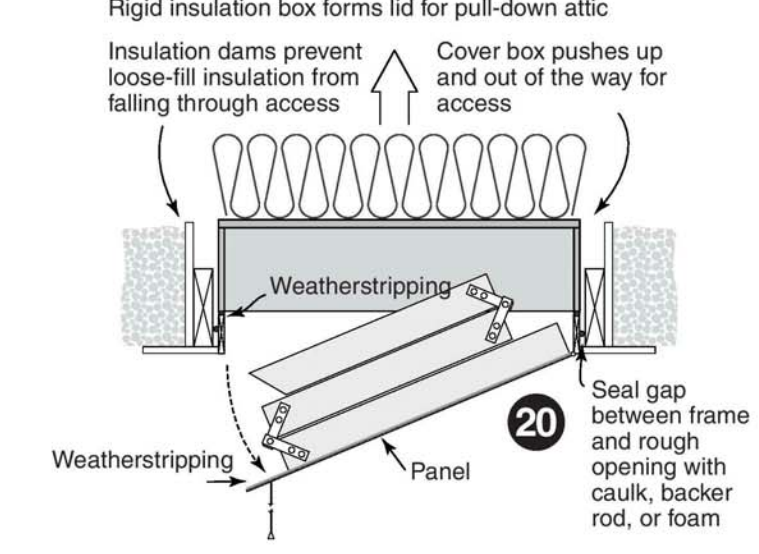


Disclaimer:
 This document is intended solely to help graphically demonstrate the air leakage provisions of section 502.1.4 of the 2000 IECC. It does not cover all airsealing locations or techniques. Other code provisions may be applicable as well.

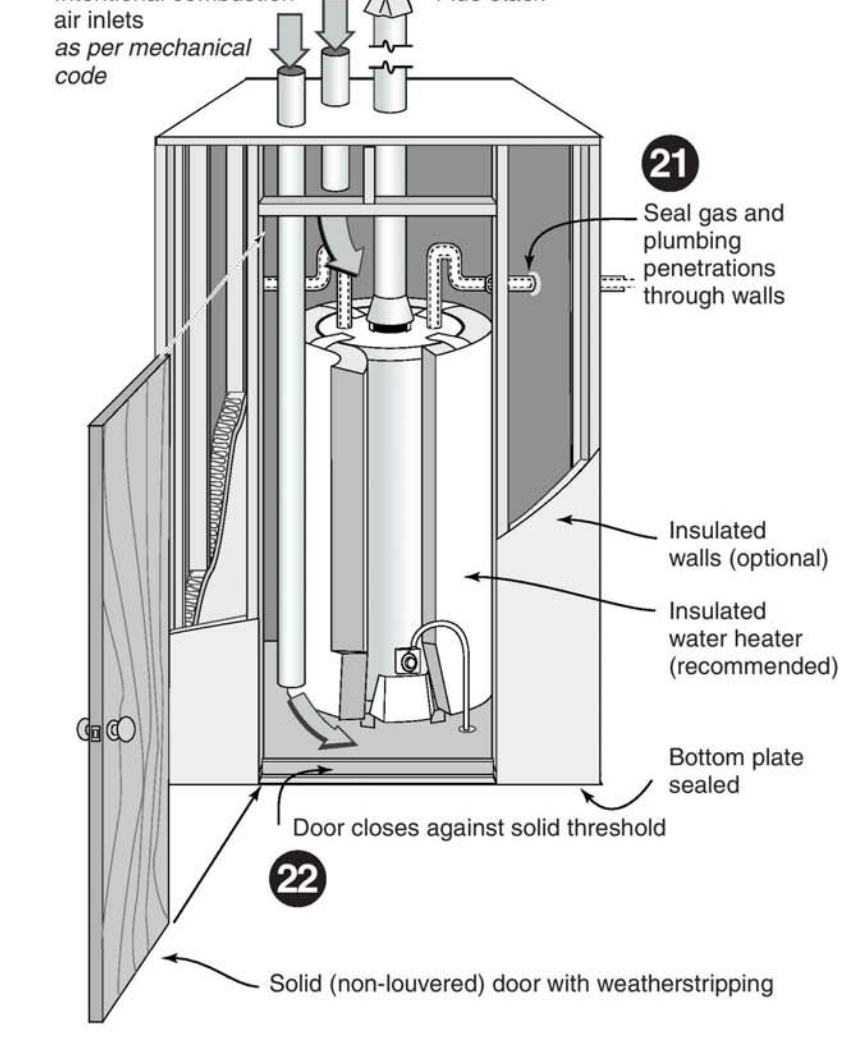
Attic scuttle



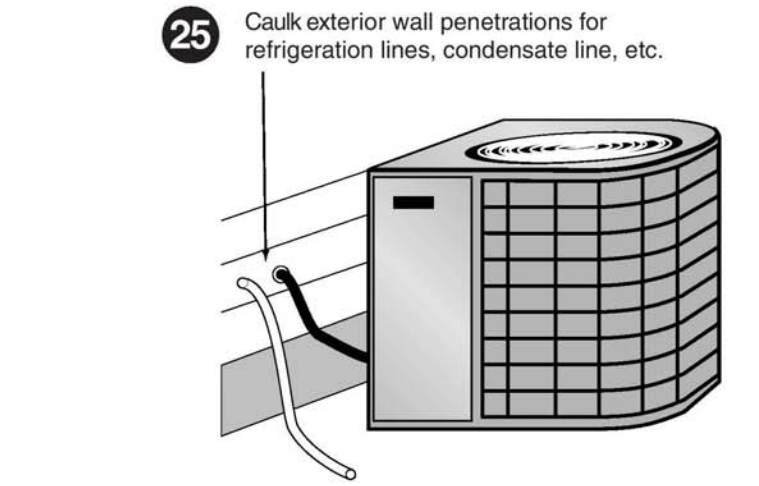
Attic pull-down stairs



Combustion closet



Exterior penetrations



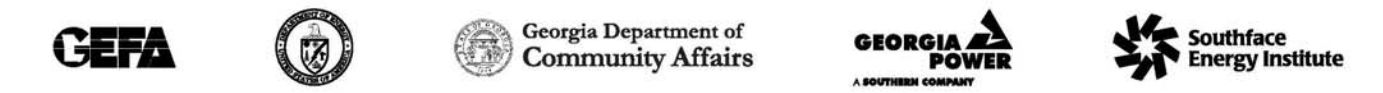
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PROJECT NUMBER
597
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The Park at Barton

900 E Barton Ave
 West Memphis, AR 72301
 SHEET NUMBER

A0.5

CAD FILE NUMBER
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Poster prepared for inclusion in Georgia Energy Code
 Prepared by Southface Energy Institute
 www.southface.org

TYVEK INSTALLATION GUIDELINES ARE INCLUDED IN THIS SET OF CONTRACT DOCUMENTS FOR CONVENIENCE ONLY. THE ARCHITECT IS NOT RESPONSIBLE FOR INFORMATION INCLUDED IN THESE DRAWINGS OR FOR THEIR ACCURACY, INCLUDING ANY POSSIBLE ERRORS OR OMISSIONS.

INSTALLATION GUIDELINES for DuPont™ Flashing Systems™ with integral flanged windows AFTER weather-resistive barrier is installed.

DuPont™ FlexWrap™ and DuPont™ StraightFlash™ are highly engineered flashing tapes designed to be compatible with Tyvek® Weatherization Systems products. For optimal weather-resistive protection, we suggest you use Tyvek® HomeWrap®, Tyvek® StuccoWrap® or Tyvek® CommercialWrap®, DuPont™ Tyvek® Tape, and Tyvek® Wrap Caps.

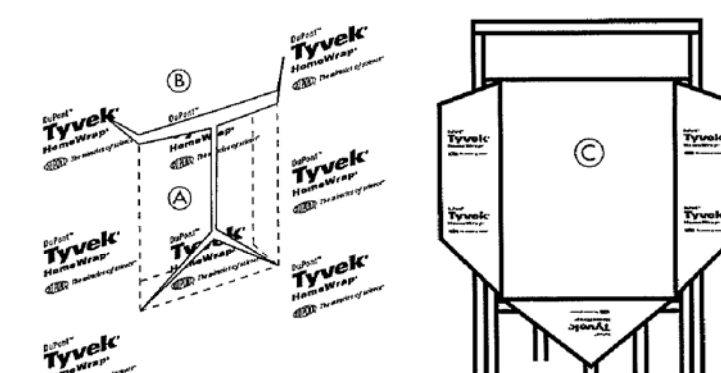
GENERAL INSTRUCTIONS:

- DuPont™ FlexWrap™ and StraightFlash™ should be installed on clean, dry surfaces. Wipe surfaces to remove moisture, dirt, grease and other debris that could interfere with adhesion.
- Apply pressure along entire surface for a good bond.
- Remove all wrinkles and bubbles by smoothing surface and repositioning as necessary.
- DO NOT STRETCH DuPont™ FlexWrap™ WHEN INSTALLING.
- DuPont™ FlexWrap™ performs best when installed at temperatures above 40°F (4°C).
- For additional guidelines and suggested caulks, please call 1-800-44-TYVEK (800-448-9835).

STEP 1

PREPARE WEATHER-RESISTIVE BARRIER FOR WINDOW OR DOOR INSTALLATION:

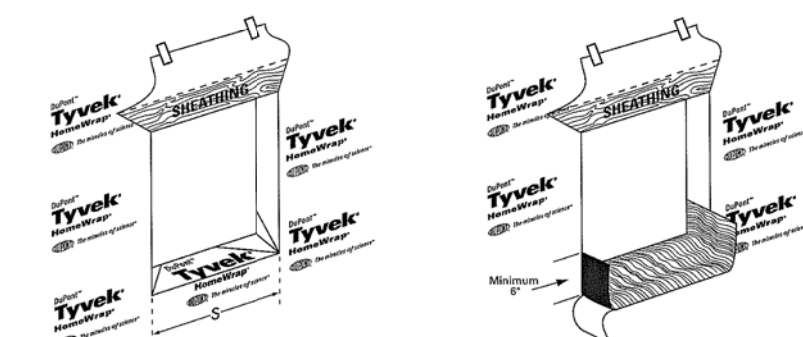
- Make a modified "I-Cut" in the weather-resistive barrier. Begin with a horizontal cut across the top of the window frame. (For roundtop windows, the cut should begin 2" above the mull joint [see D]). From the center cut straight down about two-thirds of the way then angling the cut to each corner (see A).
- Cut a flap above the rough opening to expose sheathing or framing members and allow head flashing installation. Head flashing should adhere to exposed sheathing or framing members.
- Fold side and bottom flaps into rough opening and secure. Flip head flap up and temporarily secure.



FOR RECTANGULAR WINDOWS

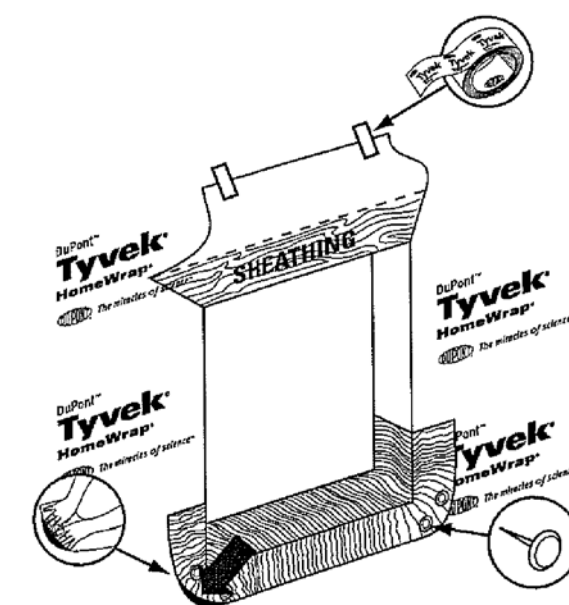
STEP 2

- Cut DuPont™ FlexWrap™ at least 12" longer than width of rough opening sill (S).
- Remove first piece of release paper, cover horizontal sill by aligning inside edge of sill, and adhere into rough opening across sill and up jambs (min. 6"). Cover horizontal sill by aligning FlexWrap™ edge with inside edge of sill.
- Remove second release paper.



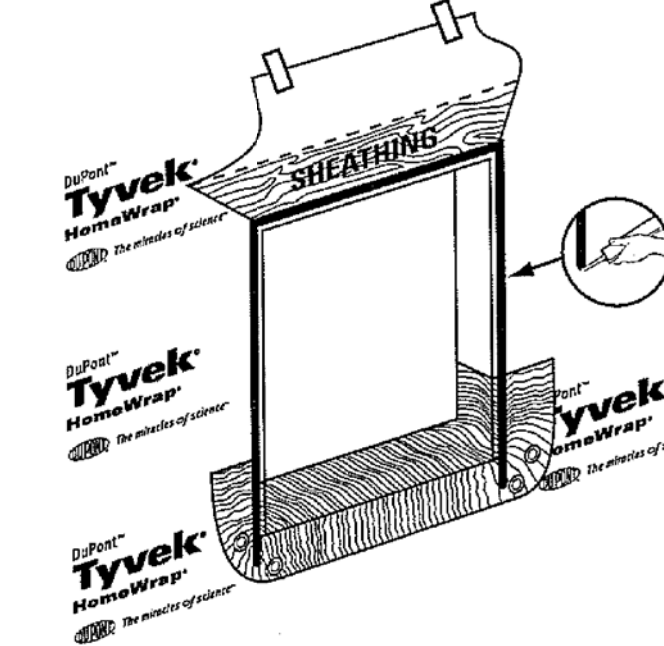
STEP 3

- Fan DuPont™ FlexWrap™ at bottom corners onto face of wall.
- Firmly press sill flashing to ensure full adhesion.
- SECURE FANNED EDGES WITH MECHANICAL FASTENERS. (i.e. CapNails, staples, screws, etc.)



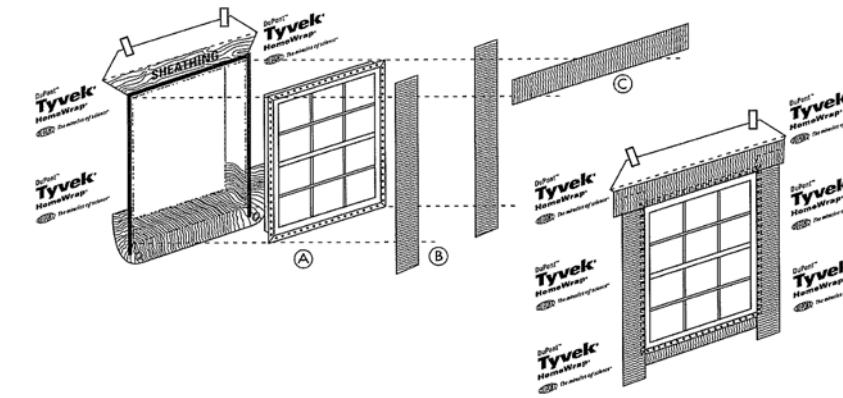
STEP 4

- Apply continuous bead of caulk to wall or back side of window mounting flange across jambs and head, but leave bottom sill flange uncaulked.
- DO NOT APPLY CAULK ACROSS BOTTOM SILL FLANGE.



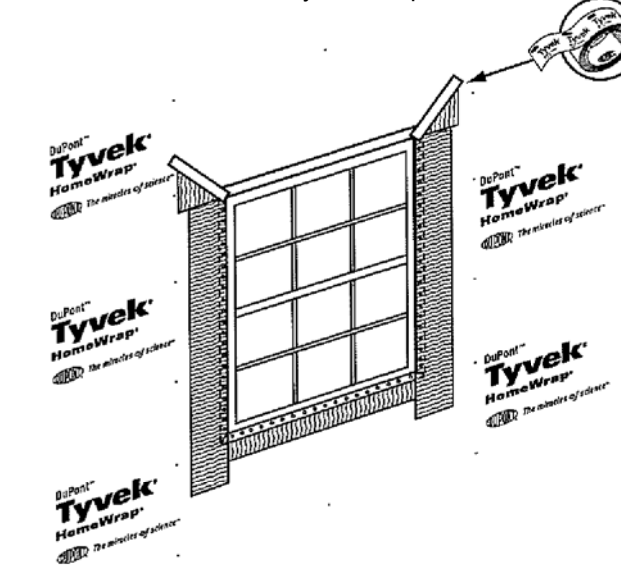
STEP 5

- Install window/door according to manufacturer's instructions. (illustration A)
- Cut two pieces of DuPont™ StraightFlash™ or FlexWrap™ for jamb flashing extending 1" above window head flange and below bottom edge of sill flashing. Remove release paper and press tightly along sides of window frame. (illustration B)
- Cut a piece of DuPont™ StraightFlash™ or FlexWrap™ for head flashing, which extends beyond outer edges of jamb flashings. Remove release paper and install completely covering mounting flange and adhering to exposed sheathing or framing members. (illustration C)



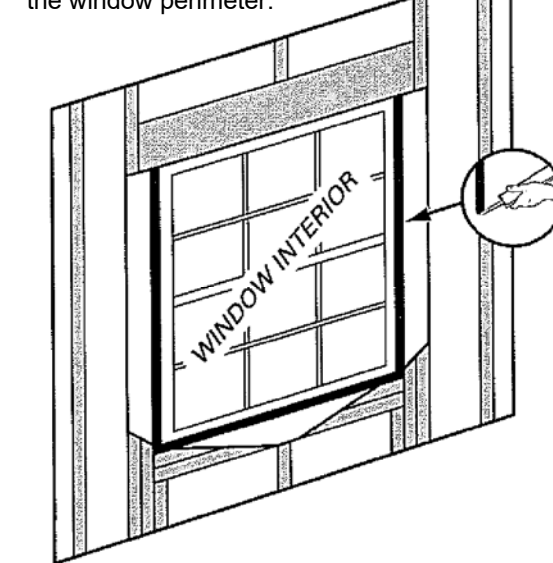
STEP 6

- Flip down upper flap of weather-resistive barrier so it lays flat across head flashing.
- Tape along all cuts in weather-resistive barrier and across head of the window with DuPont™ Tyvek® Tape.



STEP 7

- Caulk (using backer rod if necessary) to seal rear of window/ door frame to inside of rough opening across bottom and a minimum of 12" up the sides to form a back dam. To air seal around the window opening, caulk completely around the back edge of the window perimeter.



STEPS 8, 9 AND 10 NOT USED

BUILDING CODE REPORTS
National Evaluation Report NER-642. Meets the ASTM E1677 Type 1 Air Retarder when installed according to Tyvek® Weatherization Systems best practices. See installation instructions on label.

TECHNICAL SPECIFICATIONS
Tyvek® used in construction products is made from 100% flash spunbonded high density polyethylene fibers which have been bonded together by heat and pressure, without binders or fillers, into a tough, durable sheet structure. Additives have been incorporated into the polyethylene to provide ultraviolet light resistance. DuPont suggests that Tyvek® be covered within four months (120 days) of installation. DuPont™ FlexWrap™ and StraightFlash™ are made from a synthetic rubber adhesive and a laminate of polyethylene film, elastic fiber, synthetic rubber adhesive, polyurethane adhesive, and a top sheet of flash spunbonded high density polyethylene fibers. Additives have been incorporated into these materials to provide ultraviolet light resistance. DuPont suggests that DuPont™ FlexWrap™ and StraightFlash™ be covered within four months (120 days) of installation.

PRODUCT GUARANTEE
DuPont will replace any Tyvek® Weatherization System product damaged during installation by weather or normal handling if it is installed according to procedures published by DuPont. If you have any questions, call DuPont™ Tyvek® Weatherization Systems at 1-800-44-TYVEK. If DuPont™ FlexWrap™ and StraightFlash™ product fails to meet published material specifications at the time of shipment, or contains defects created during its production, DuPont will replace defective material at no charge.

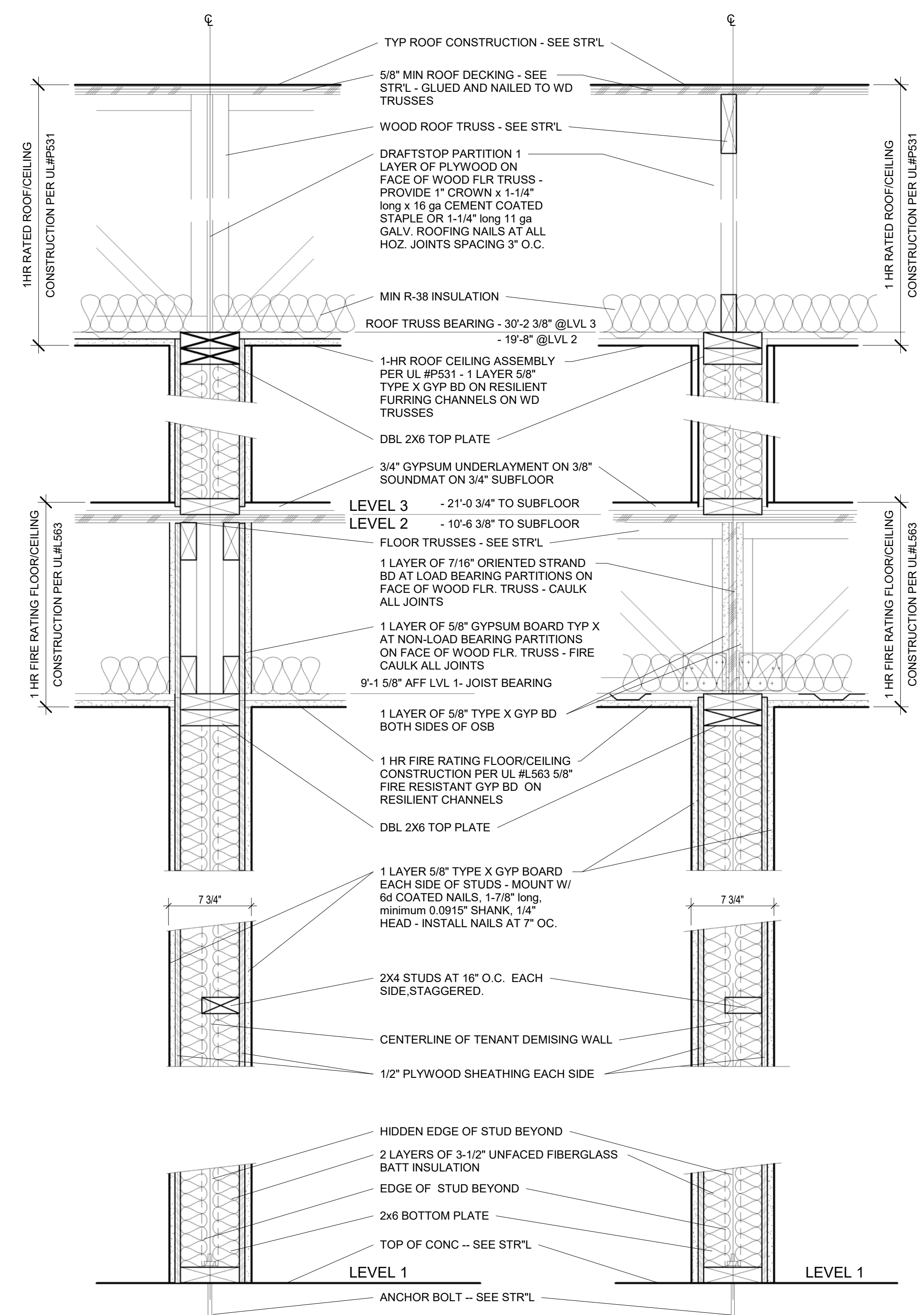
WARNING
Tyvek® is slippery and should not be used in any application where it will be walked on. In addition, because it is slippery, DuPont recommends using kickjacks or scaffolding for exterior work above the first floor. If ladders must be used, extra caution must be taken to use them safely by following the requirements set forth in ANSI Standards 14.1, 14.2 and 14.5 for ladders made of wood, aluminum, and fiberglass, respectively. Tyvek® is combustible and should be protected from a flame and other high heat sources. Tyvek® will melt at 275°F (135°C) and if the temperature of Tyvek® reaches 750°F (400°C), it will burn and the fire may spread and fall away from the point of ignition. For more information, call 1-800-44-TYVEK. DuPont™ FlexWrap™ and StraightFlash™ are combustible and should be protected from flame and other high heat sources. DuPont™ FlexWrap™ and StraightFlash™ will not support combustion if the heat source is removed. However, if burning occurs, ignited droplets may fall away from the point of ignition. For more information, call 1-800-44-TYVEK.

NOTE

To Achieve greater potential energy savings and weather-resistance, any tears, breaks, holes, etc. created during normal construction should be repaired by taping or patching with Tyvek® weather resistive barriers. When installed in conjunction with other building materials, DuPont™ FlexWrap™ and StraightFlash™ should be properly shingled with these materials, such that water is diverted to the exterior of the wall system. Tyvek® products are weather resistive barriers not the primary water barrier (the outer facade is the primary barrier). Contamination of any Tyvek® weather-resistive barriers and building papers with building site chemicals which increase their wettability (e.g., surfactants) will adversely affect their water-resistance and therefore, their contribution to the overall water-resistance of the wall system. Tyvek® StuccoWrap®, DuPont™ FlexWrap™ and StraightFlash™ are suggested for use as outlined in this brochure. DuPont™ FlexWrap™ and StraightFlash™ are not suggested for use on roof windows. For superior protection against bulk water penetration DuPont suggests a system combining a quality exterior facade, a good secondary weather-resistive membrane and an exterior sheathing, appropriate flashing materials and details; and high quality windows and doors with particular attention to proper installation of each component. In a system where no exterior sheathing is used and Tyvek® is installed directly over the wall studs, exterior facade materials should be selected to ensure maximum protection against water intrusion. Careful workmanship and proper installation of each component is very important.

DuPont believes this information to be reliable and accurate. The information may be subject to revision as additional experience and knowledge is gained. It is the user's responsibility to determine the proper construction materials needed. Because conditions are outside of our control, DUPONT MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, AND ASSUMES NO LIABILITY WHATSOEVER AS TO THE PERFORMANCE OF THE PRODUCTS FOR A PARTICULAR USE. This information is not intended to be used by others for advertising, promotion or other publication for commercial purposes.

For more information:
1-800-44-TYVEK
www.Tyvek.com



- D2** TENANT DEMISING WALL - 1 HR PARTITION TYPE "D2" UL# U340 1-1/2" = 1-0
2012 IBC 1207.2 REQUIRES STC 50 MIN RATING AT DEMISING WALL ASSEMBLIES. PROVIDED STC 50 RATING
FBC 1207.3 REQUIRED IIC 50 MIN RATING AT FLOOR/CEILING ASSEMBLIES. PROVIDED ICC 58 RATING (PER SOUND SYSTEM 1; REFERENCE UNITED STATES GYPSUM COMPANY CATALOG IG 1503 / 2-04)
- D1** TENANT DEMISING WALL - 1HR PARTITION TYPE "D1" UL# U340 1-1/2" = 1-0
2012 IBC 1207.2 REQUIRES STC 50 MIN RATING AT DEMISING WALL ASSEMBLIES. PROVIDED STC 50 RATING
FBC 1207.3 REQUIRED IIC 50 MIN RATING AT FLOOR/CEILING ASSEMBLIES. PROVIDED ICC 58 RATING (PER SOUND SYSTEM 1; REFERENCE UNITED STATES GYPSUM COMPANY CATALOG IG 1503 / 2-04)



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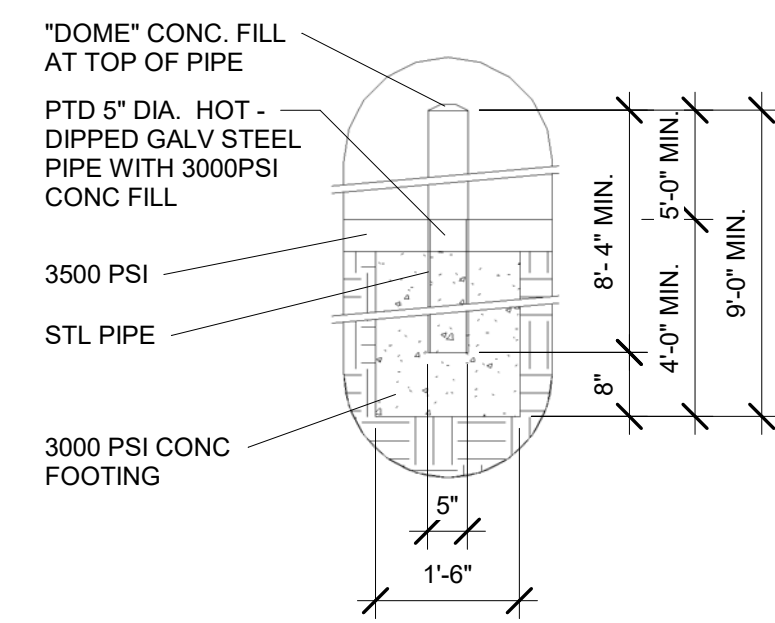
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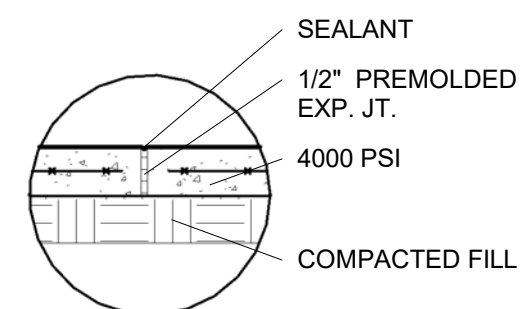
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West Memphis, AR 72301

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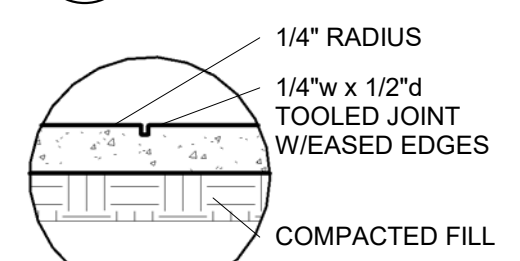
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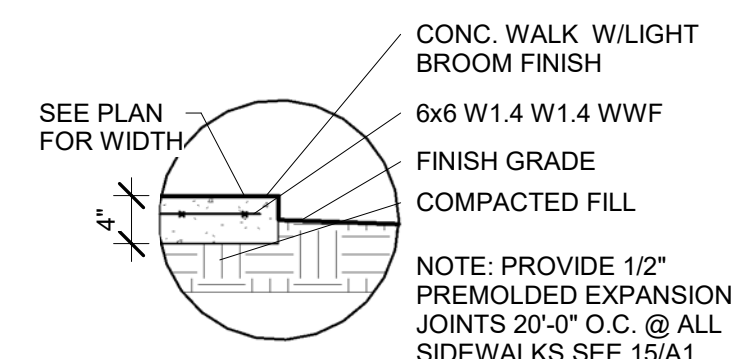
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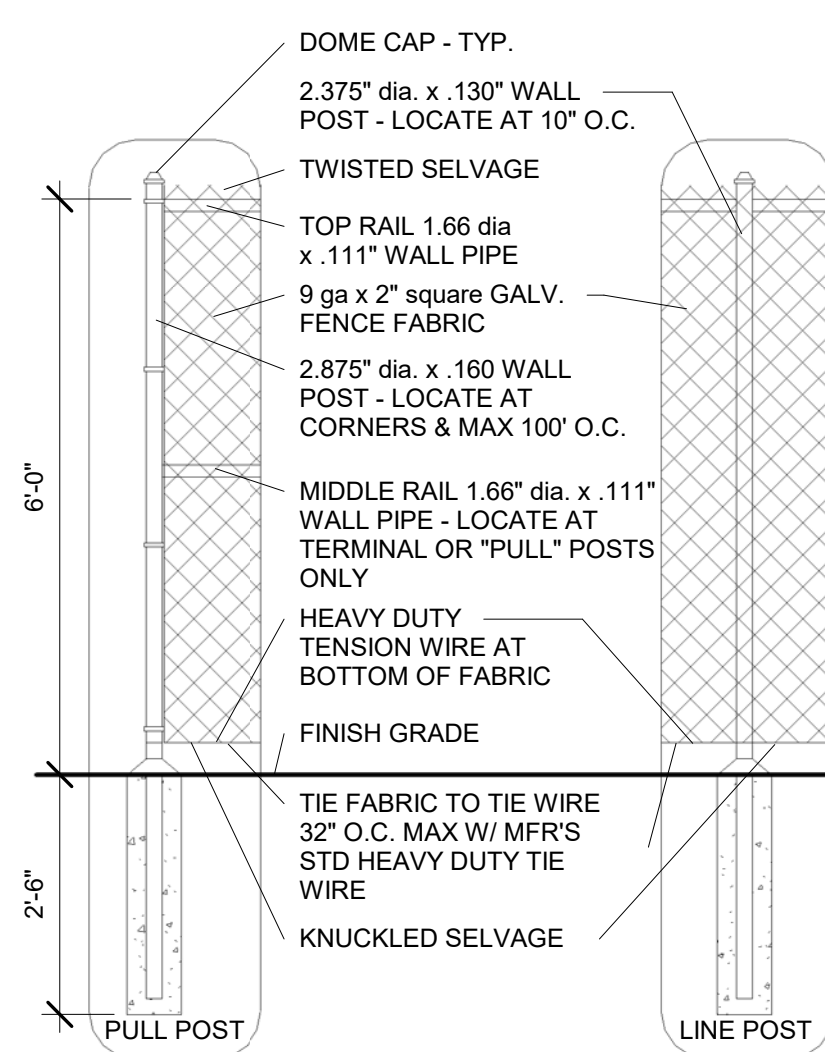
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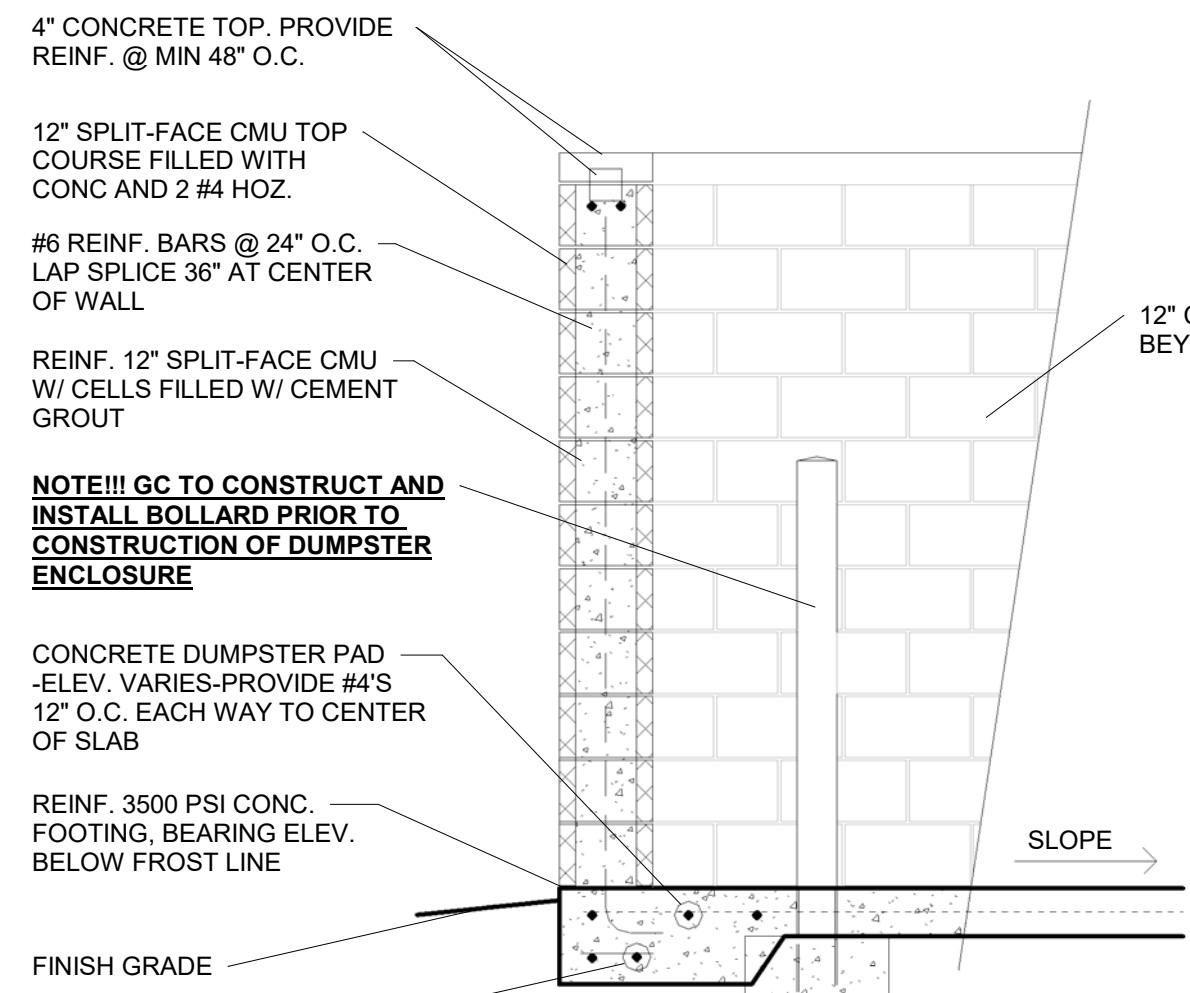
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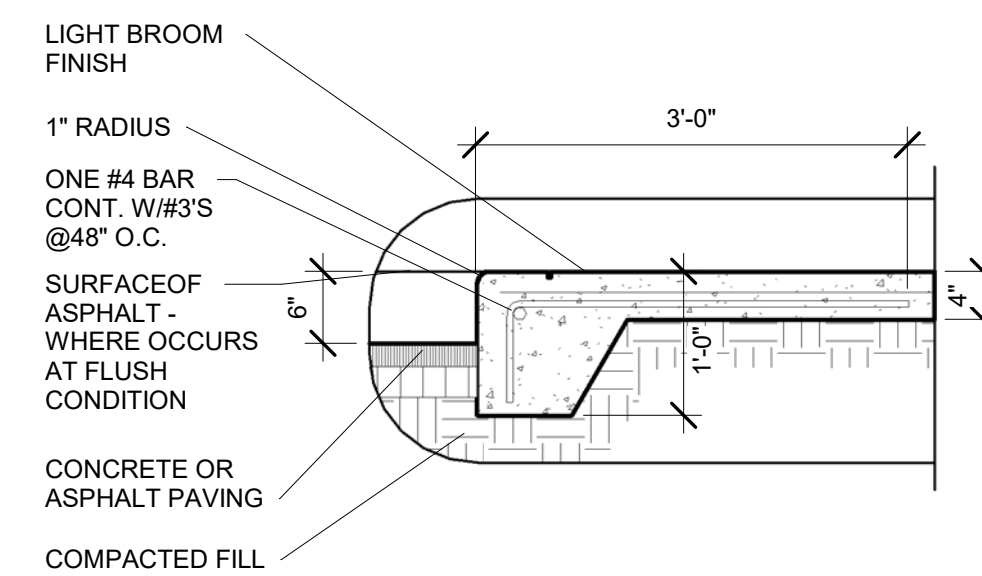
13 TYPICAL CONCRETE WALK
3/4" = 1'-0"



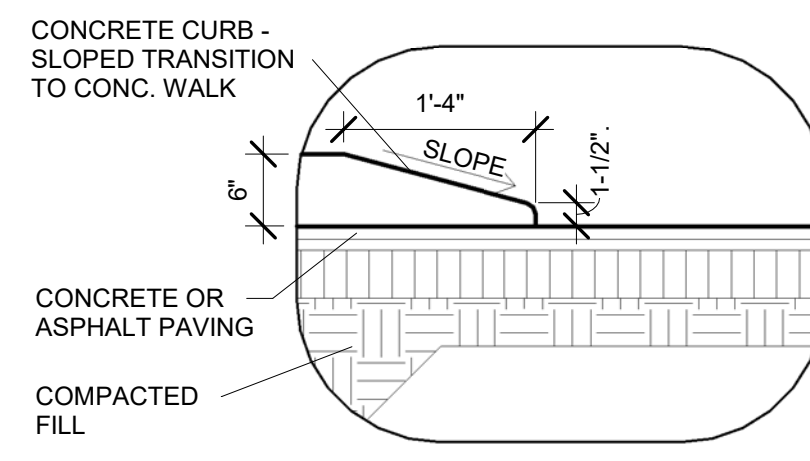
12 CHAIN LINK FENCE
1/2" = 1'-0"



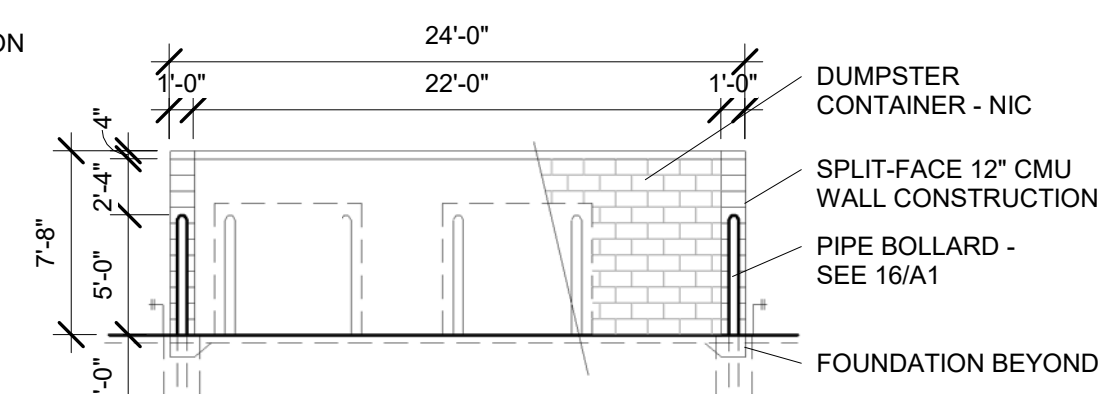
11 DUMPSTER ENCLOSURE SECTION
1/2" = 1'-0"



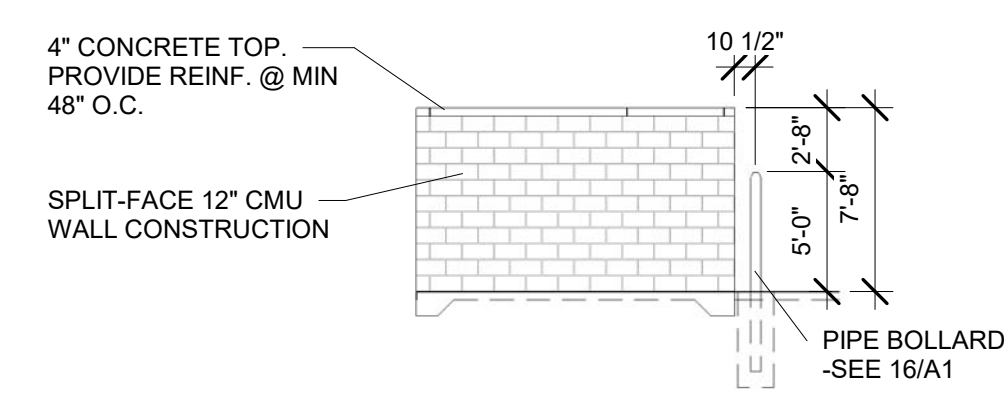
10 PARKING CURB AT PARKING
3/4" = 1'-0"



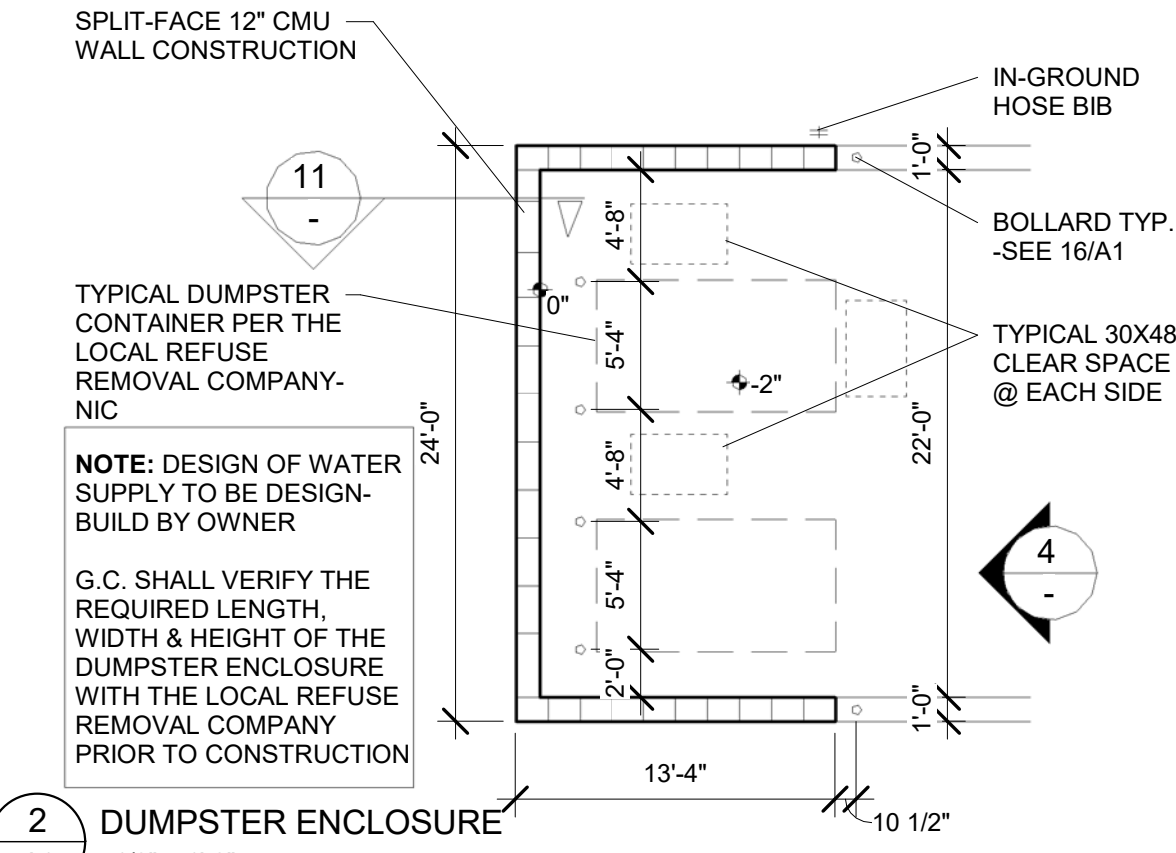
9 CURB ELEVATION
3/4" = 1'-0"



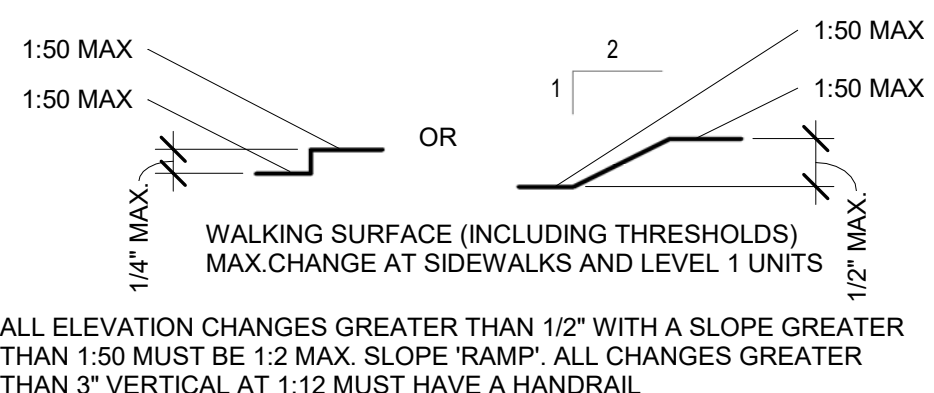
7 DUMPSTER ENCLOSURE - FRONT ELEV.
1/8" = 1'-0"



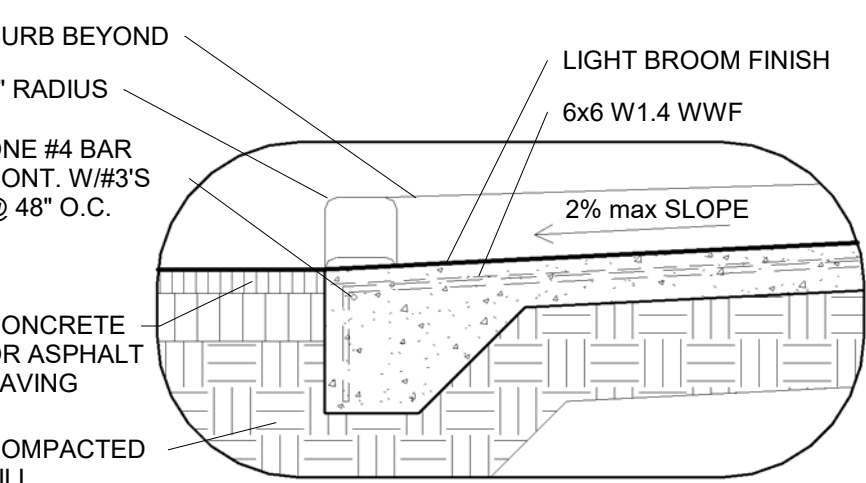
3 DUMPSTER ENCLOSURE - SIDE ELEV.
1/8" = 1'-0"



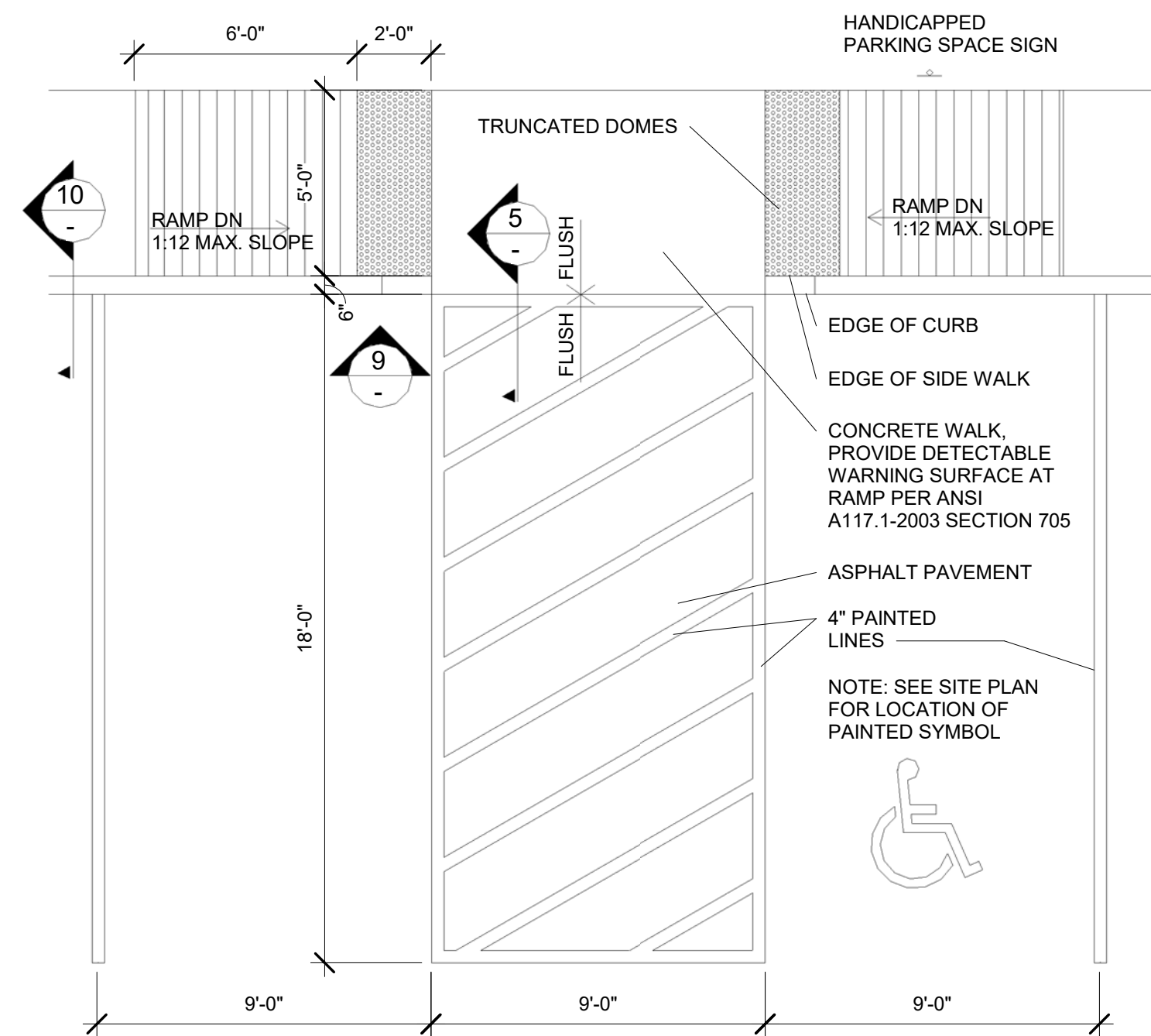
2 DUMPSTER ENCLOSURE
1/8" = 1'-0"



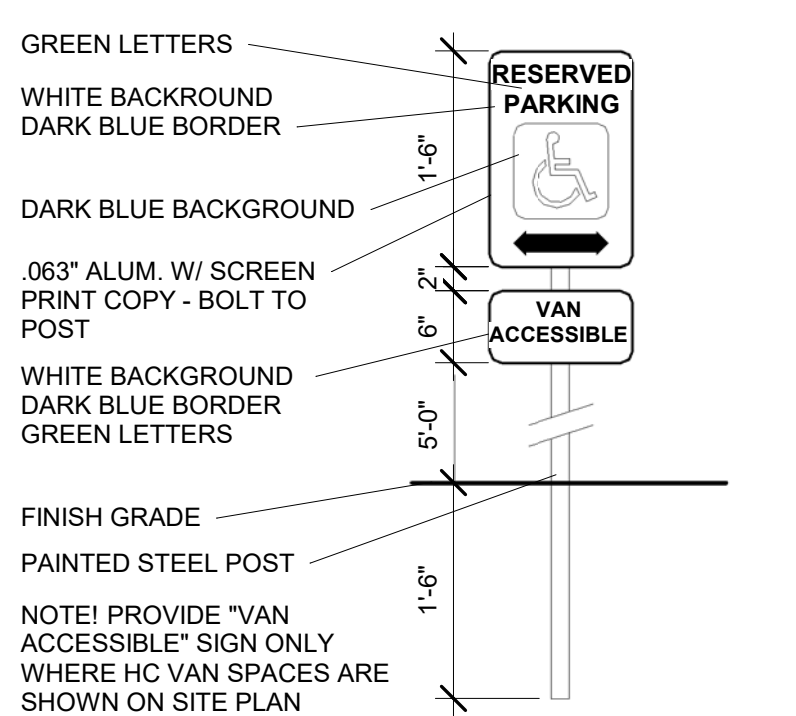
6 WALKING SURFACE MAXIMUM CHANGE
6" = 1'-0"



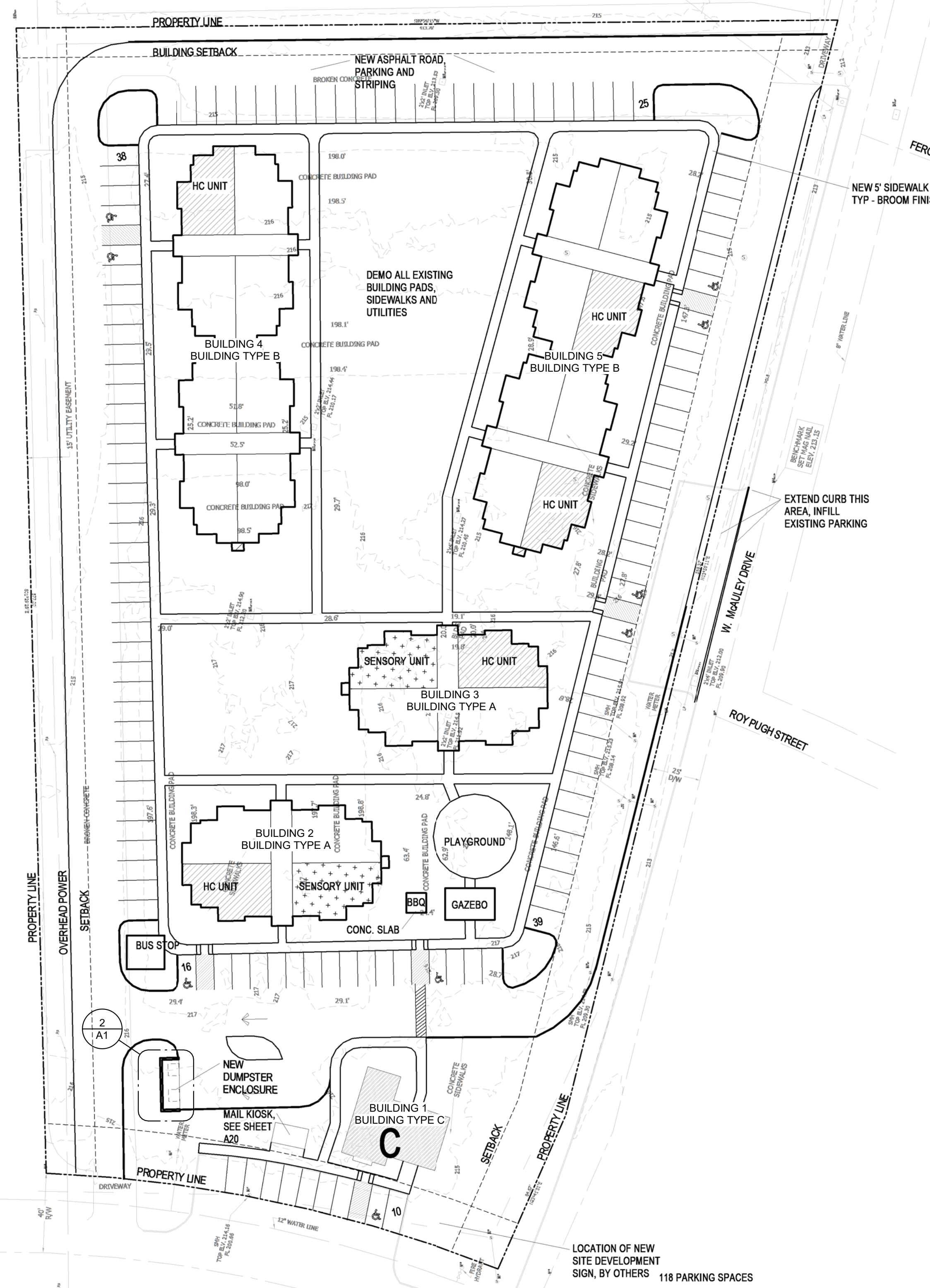
5 WALK AT CURB SECTION
3/4" = 1'-0"



4 ACCESSIBLE PARKING LAYOUT
1/4" = 1'-0"



8 HC ACCESSIBLE PARKING SIGN
3/4" = 1'-0"



1 SITE PLAN
1" = 40'-0"



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The Park at Barton

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SHEET NUMBER

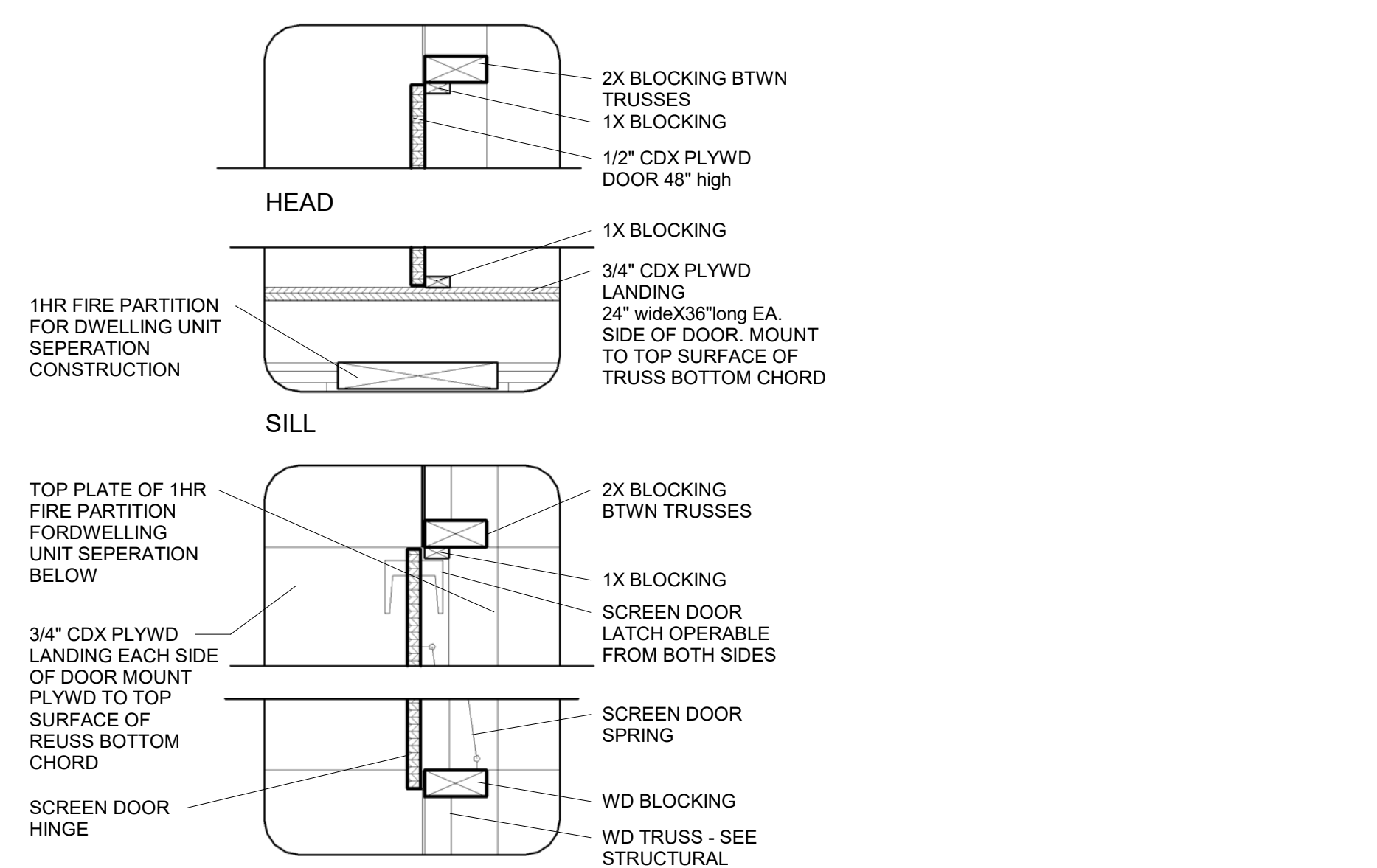
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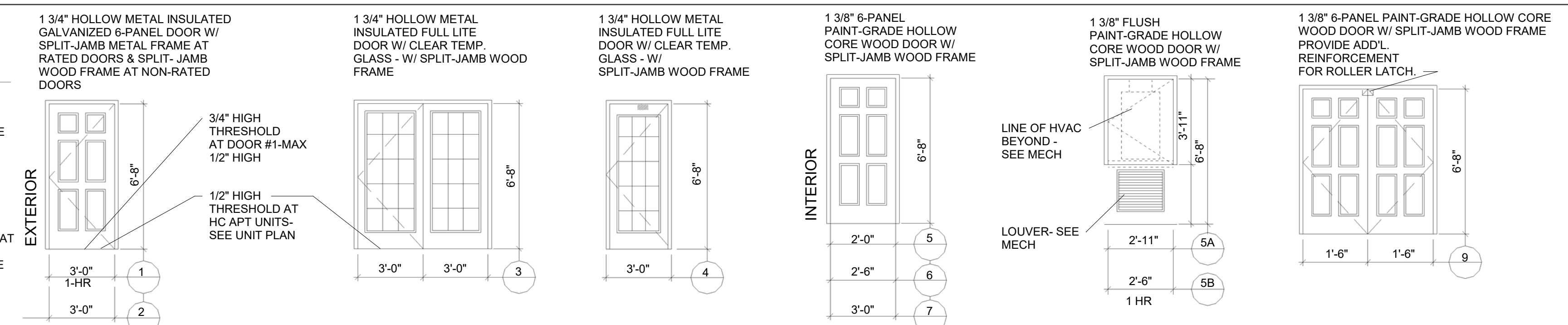
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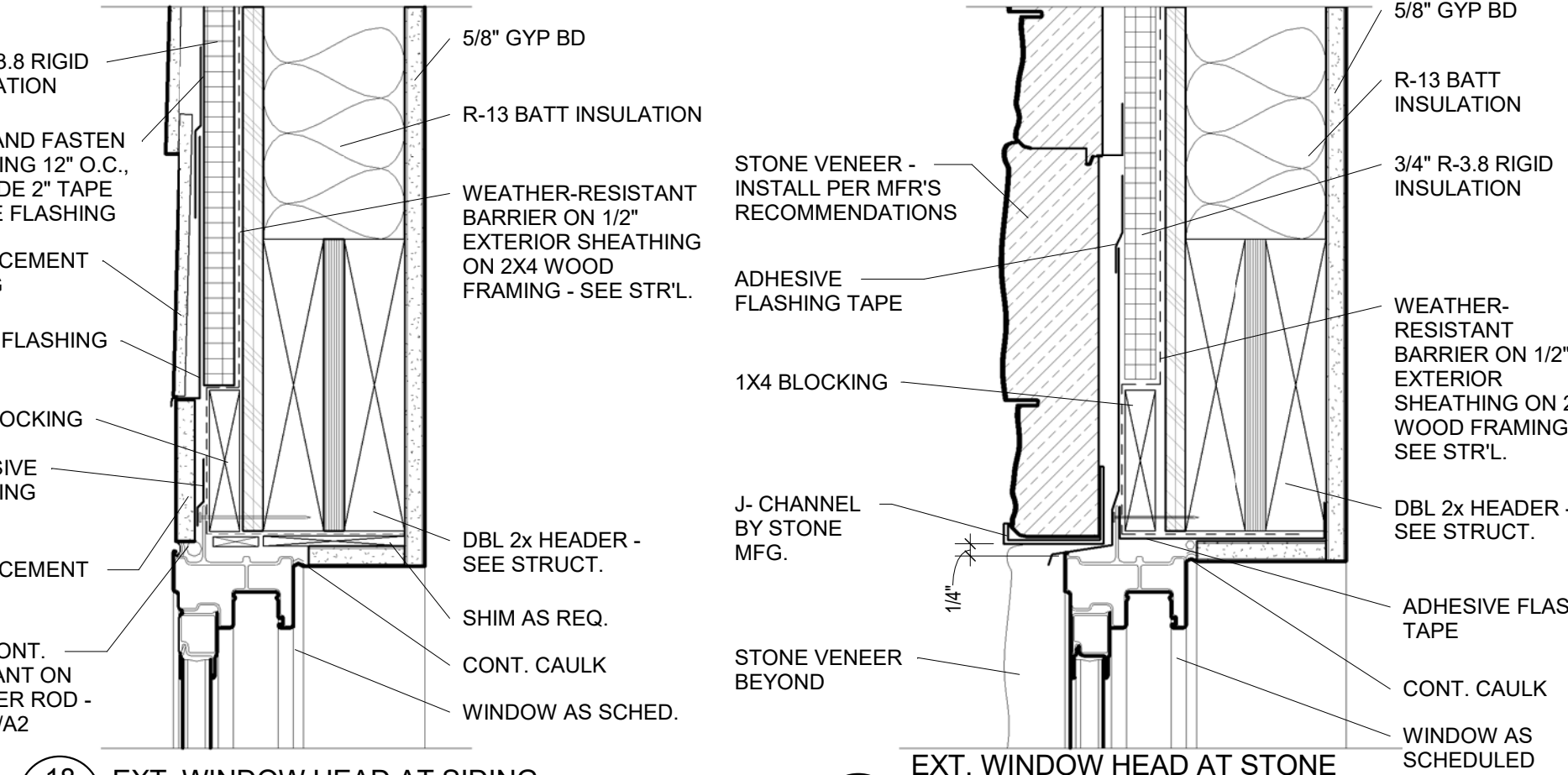


DOOR SCHEDULE

- 1/4" = 1'-0"
- ALL DOORS SHALL HAVE LEVER TYPE HARDWARE SEE PLAN FOR DOOR SWING.
 - SEE FLOOR PLANS FOR ACTIVE LEAF LOCATIONS.
 - ALL EXTERIOR DOORS TO HAVE DEADBOLTS WITH INTERIOR THUMB LATCH.
 - PROVIDE 34" MIN. CLEARANCE OPENING WIDTH AT ALL ENTRY DOORS.
 - SLIDING GLASS DOORS ARE PROHIBITED.

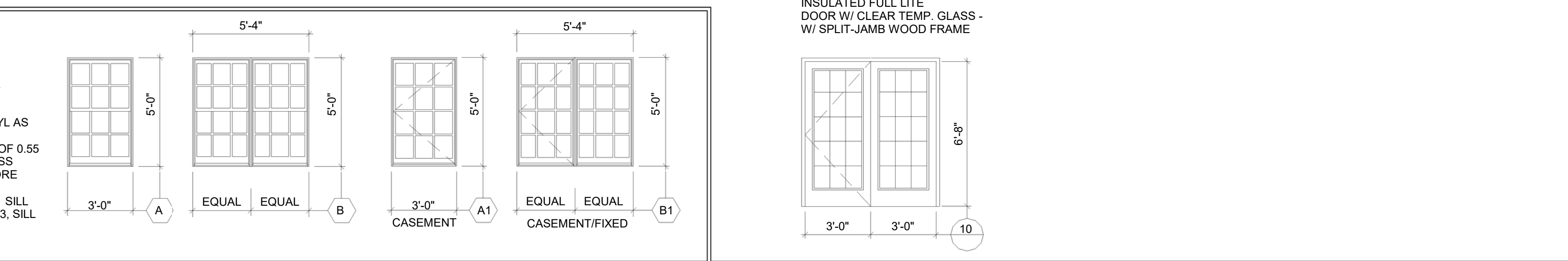


DOOR IN DRAFTSTOP PARTITION

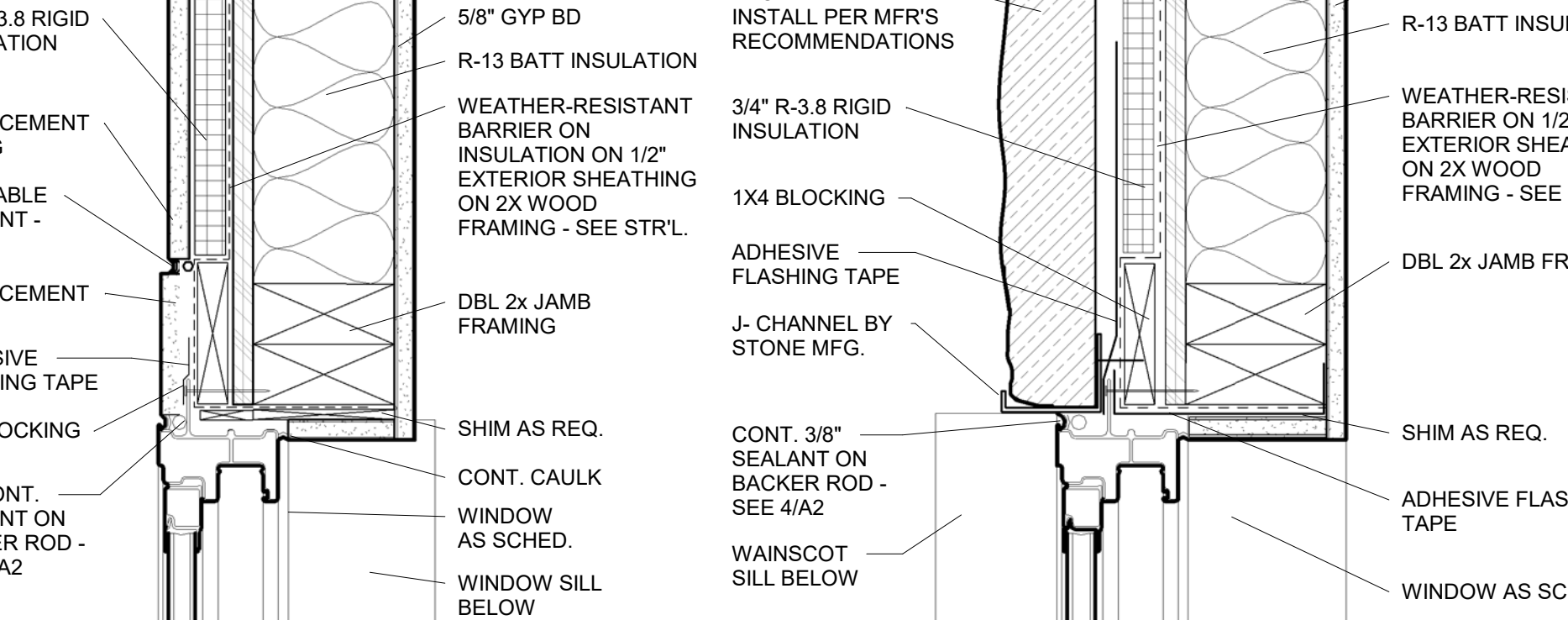


WINDOW SCHEDULE

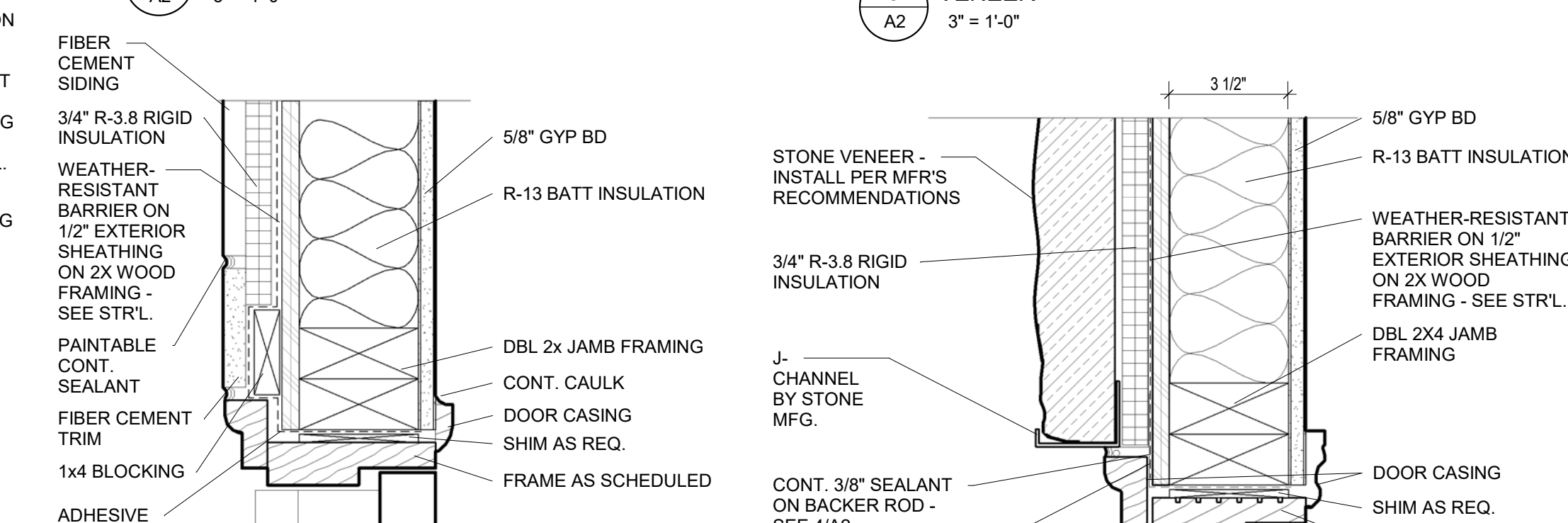
- 1/4" = 1'-0"
- ALL UNITS SHOWN ARE VINYL AS SELECTED BY ARCHITECT.
 - GLASS TO HAVE A U-VALUE OF 0.55 OR LESS, SHGC OF 0.29 OR LESS AND VT RATING OF 0.52 OR MORE.
 - LOW-E GLASS REQ'D.
 - AT BUILDINGS A & B, LEVEL 1 SILL HEIGHT IS 2'-0"; AT LEVELS 2 & 3, SILL HEIGHT IS 3'-0 1/2".



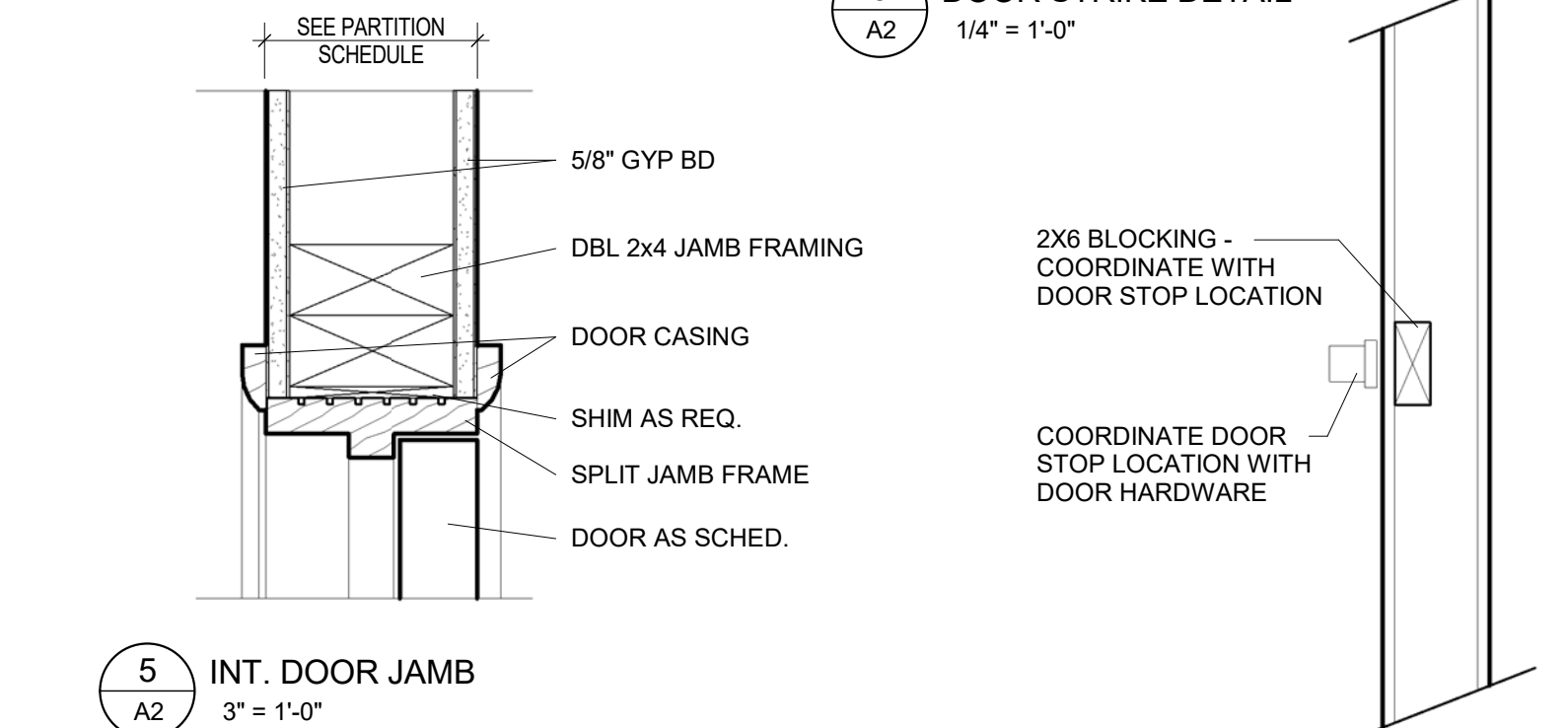
18 EXT. WINDOW HEAD AT SIDING



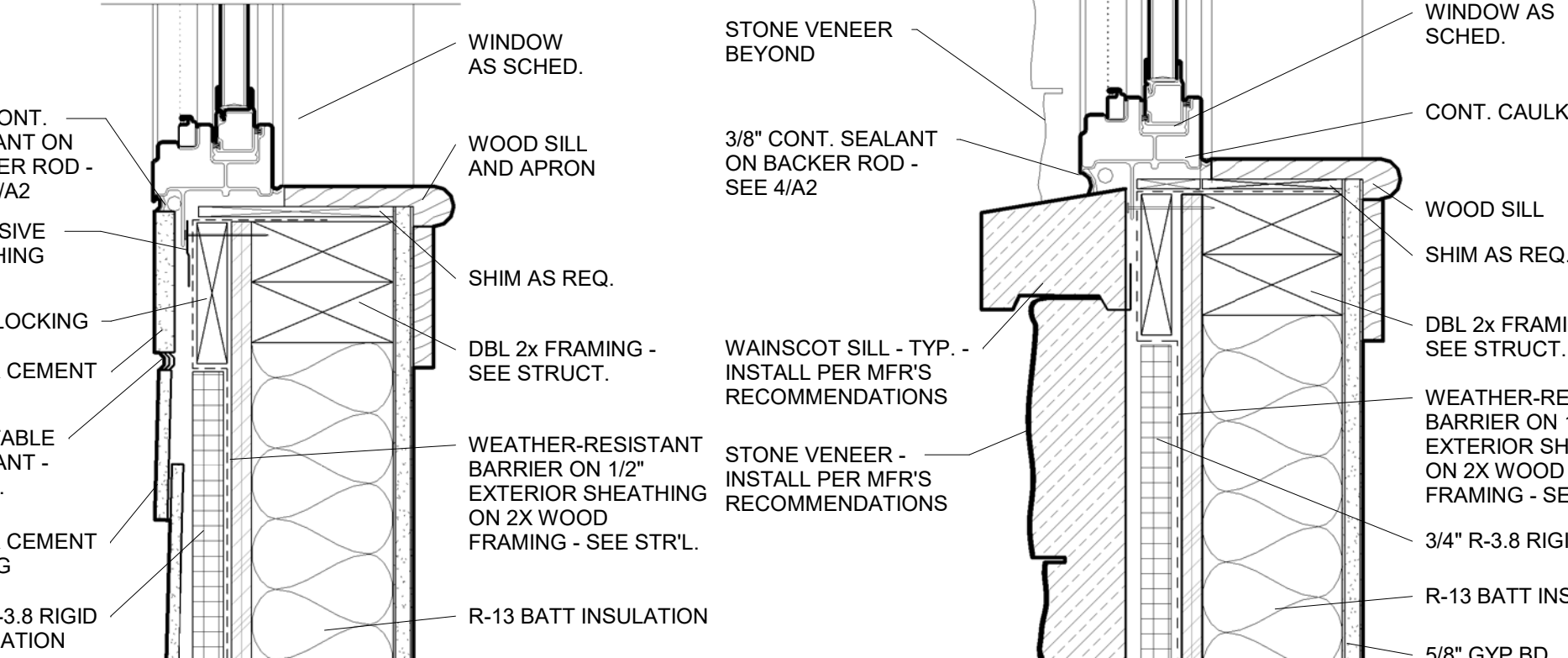
12 EXT. DOOR HEAD AT SIDING



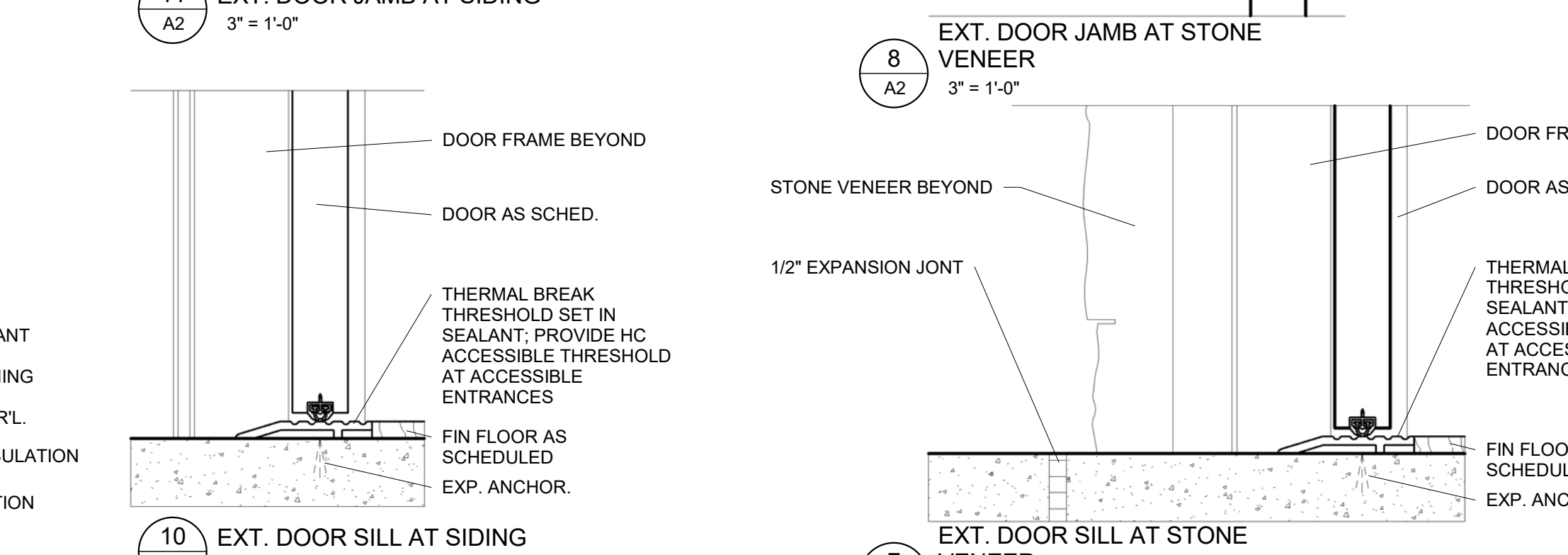
6 INT. DOOR HEAD



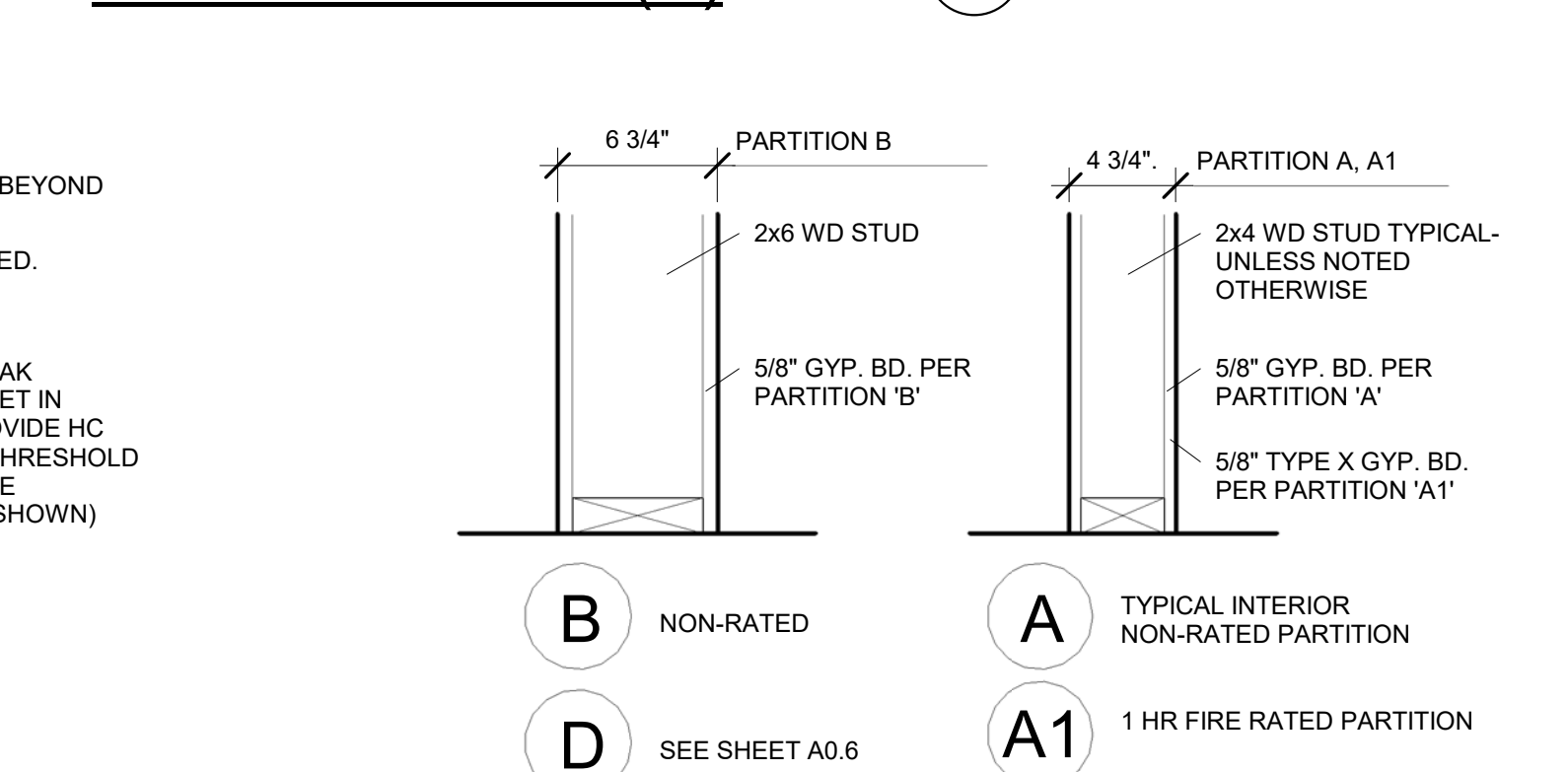
17 EXT. WINDOW JAMB AT SIDING



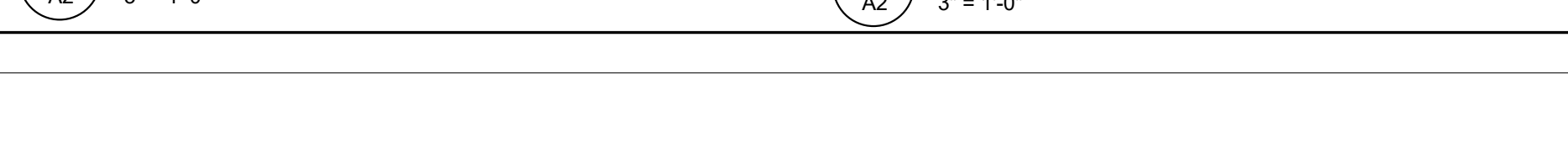
11 EXT. DOOR JAMB AT SIDING



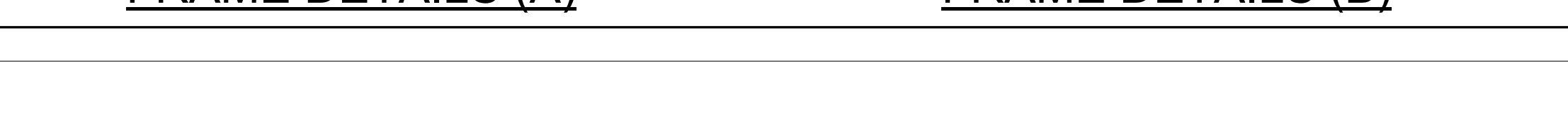
5 INT. DOOR JAMB



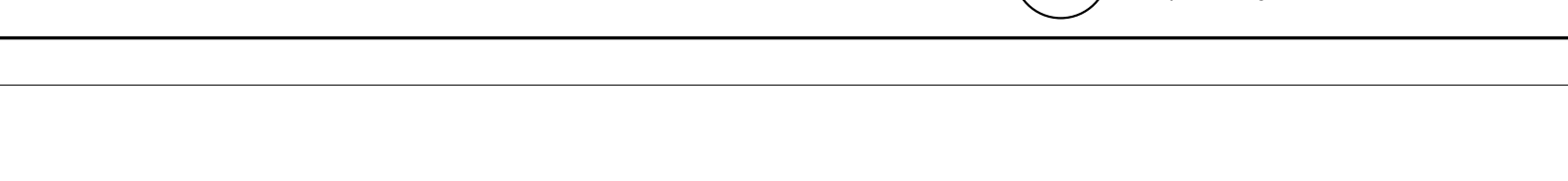
16 EXT. WINDOW SILL AT SIDING



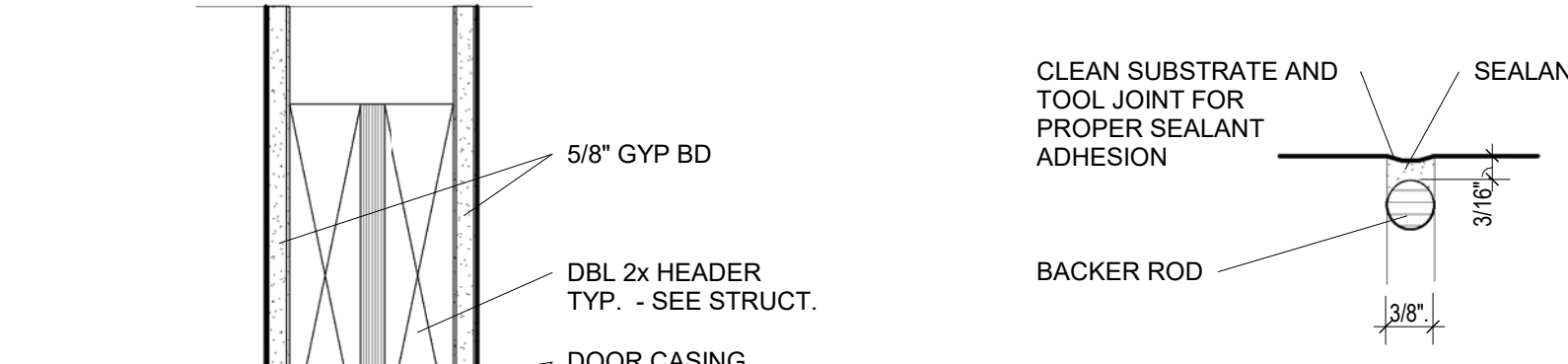
10 EXT. DOOR SILL AT SIDING



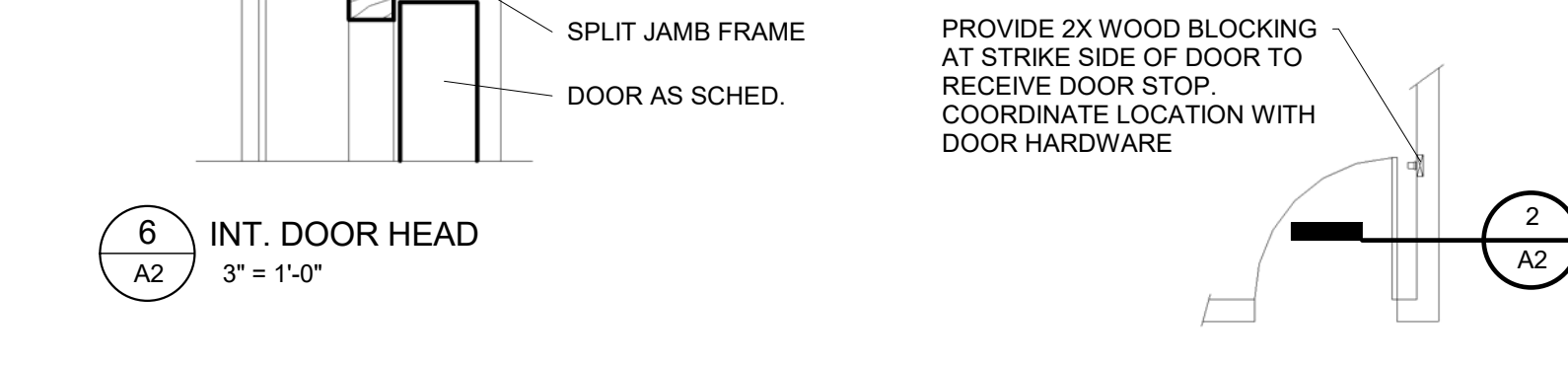
7 EXT. DOOR SILL AT STONE VENEER



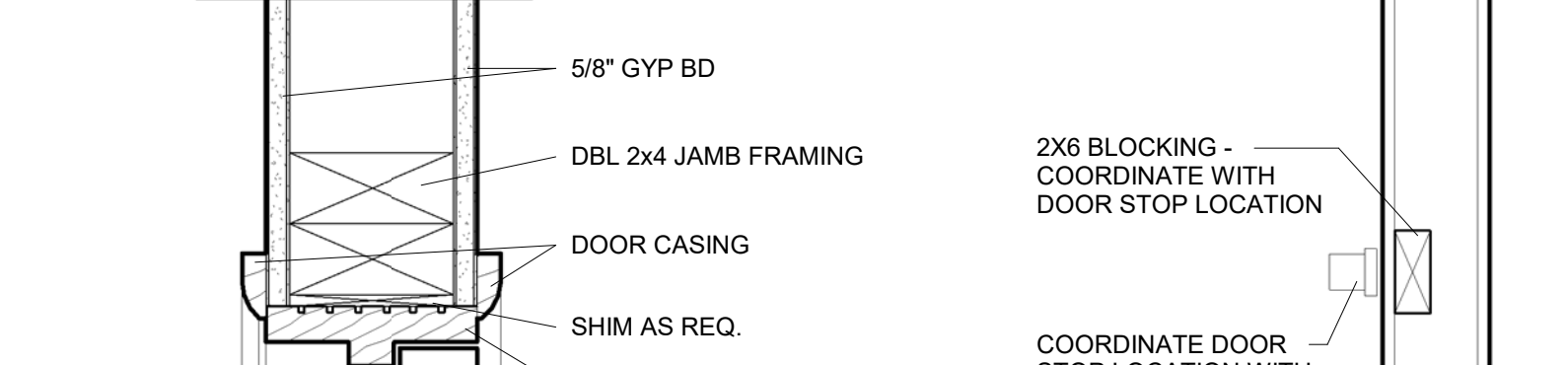
4 TYP SEALANT DETAIL



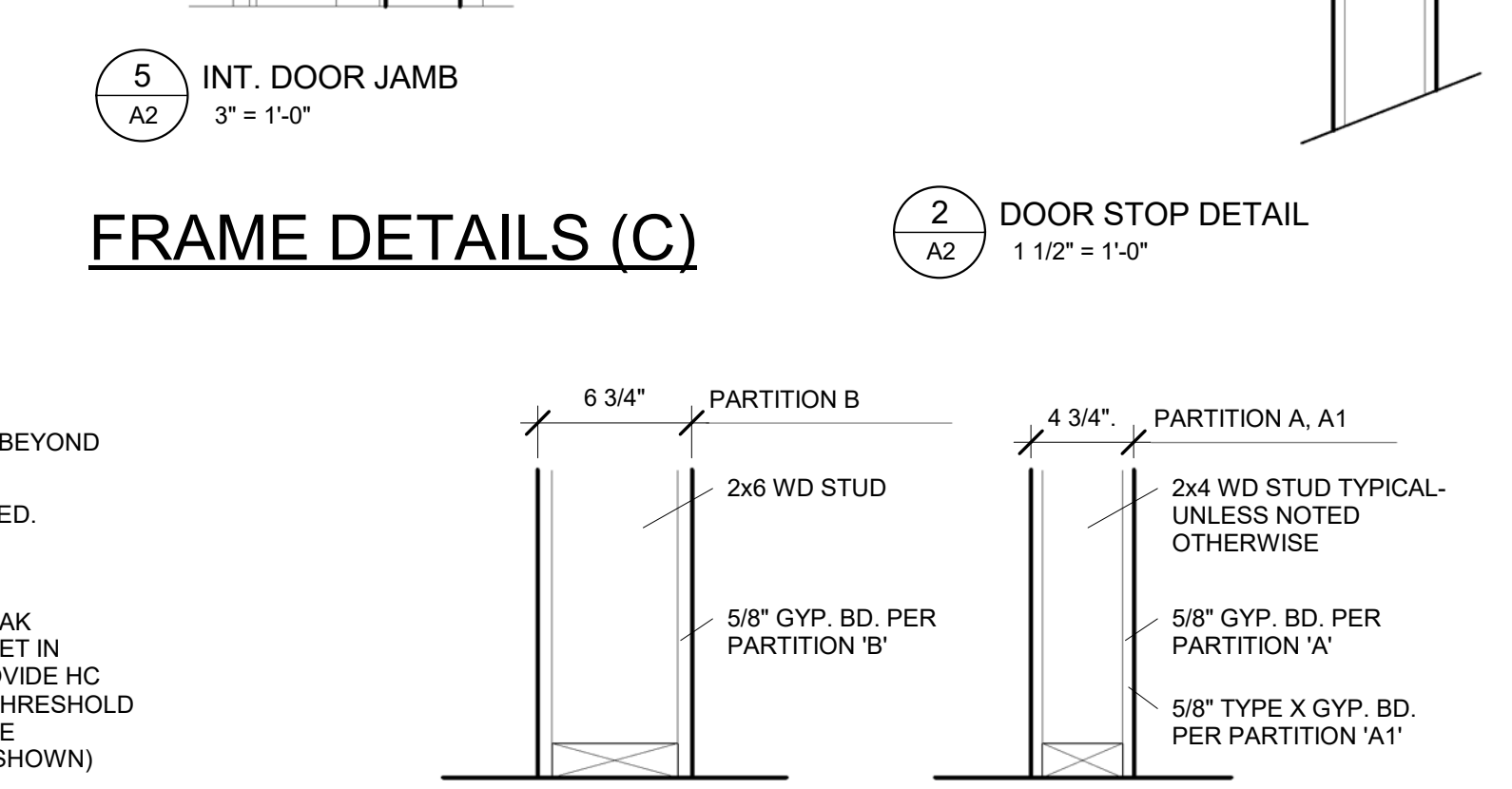
3 DOOR STRIKE DETAIL



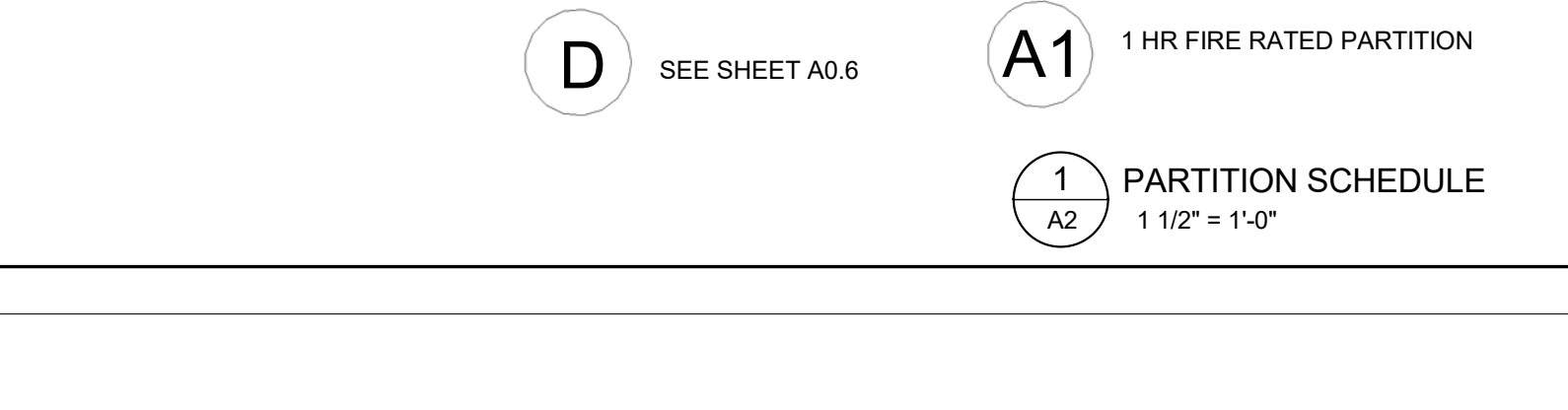
2 DOOR STOP DETAIL



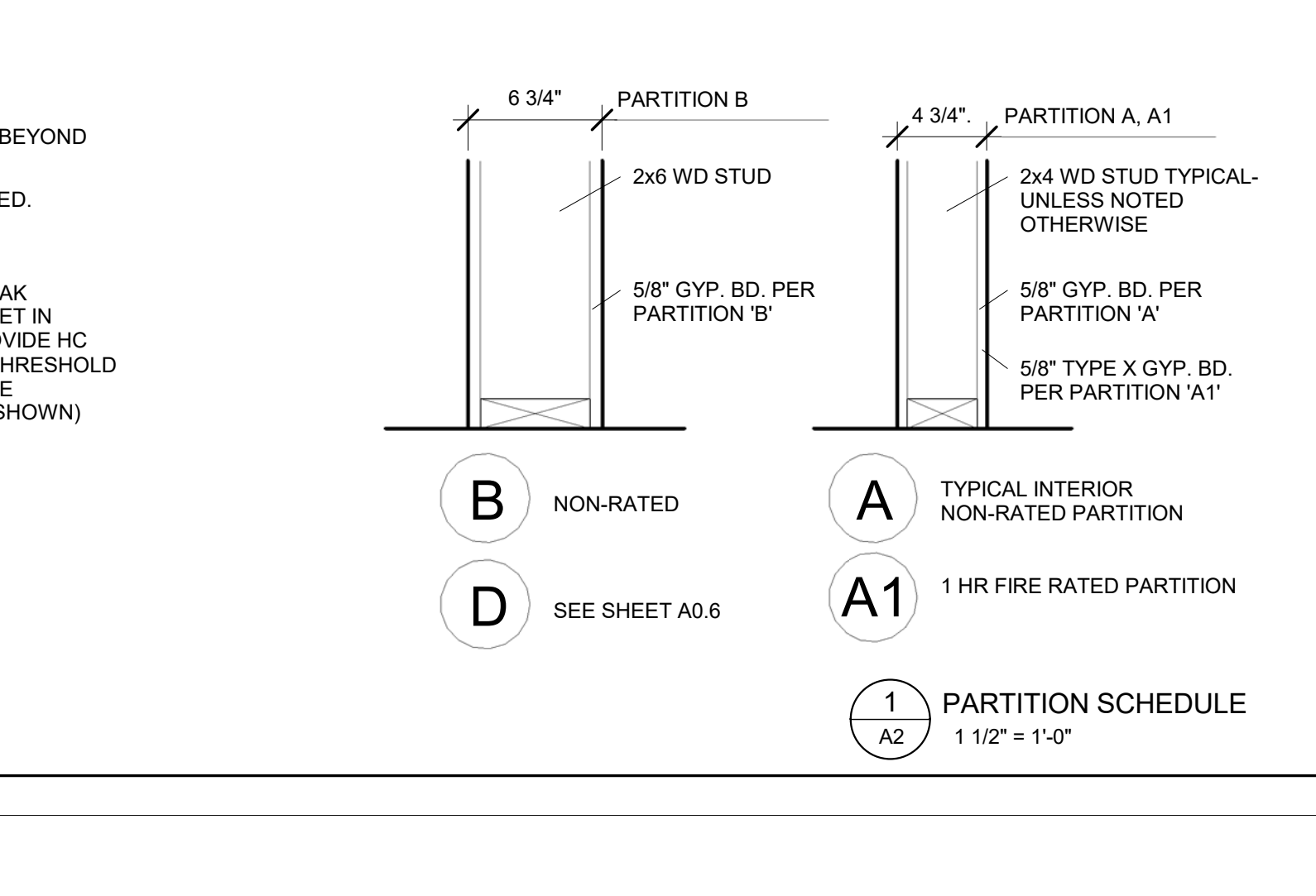
9 EXT. DOOR HEAD AT STONE VENEER



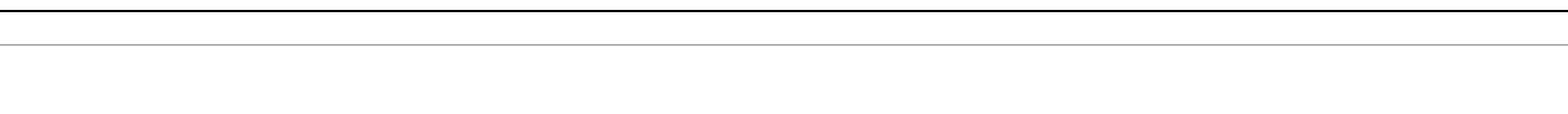
8 EXT. DOOR JAMB AT STONE VENEER



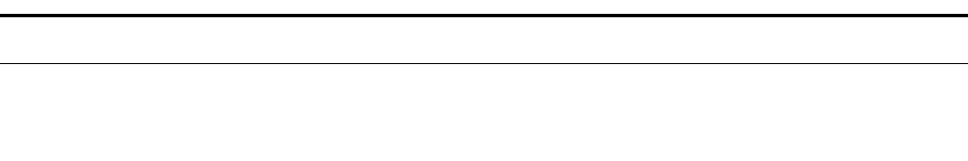
FRAME DETAILS (C)



FRAME DETAILS (A)



FRAME DETAILS (B)



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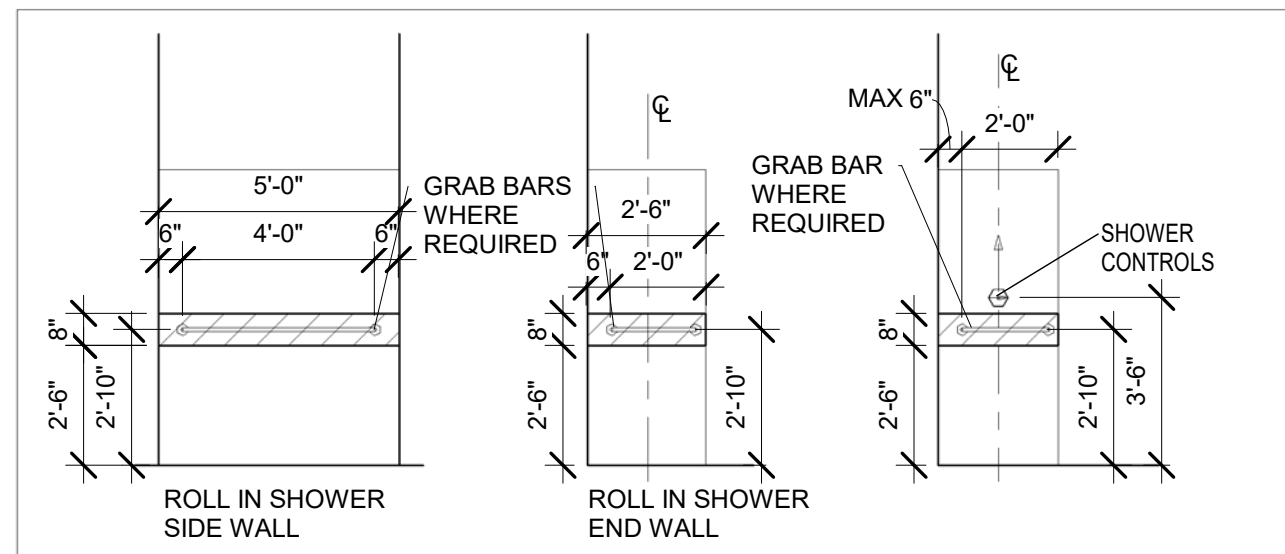
PROJECT The Park at Barton

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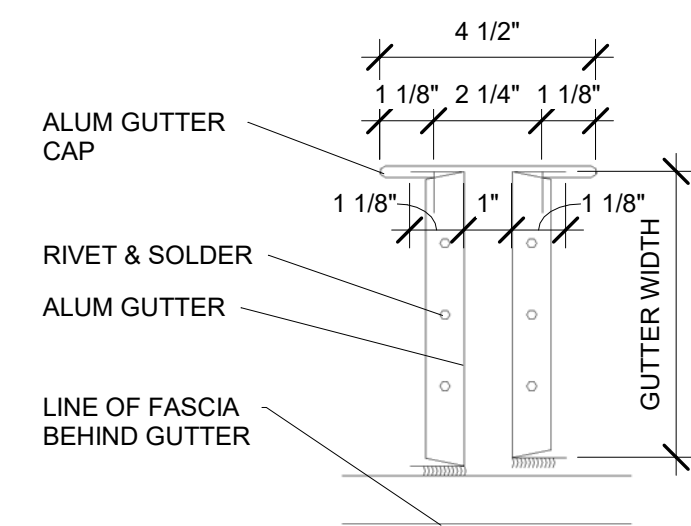
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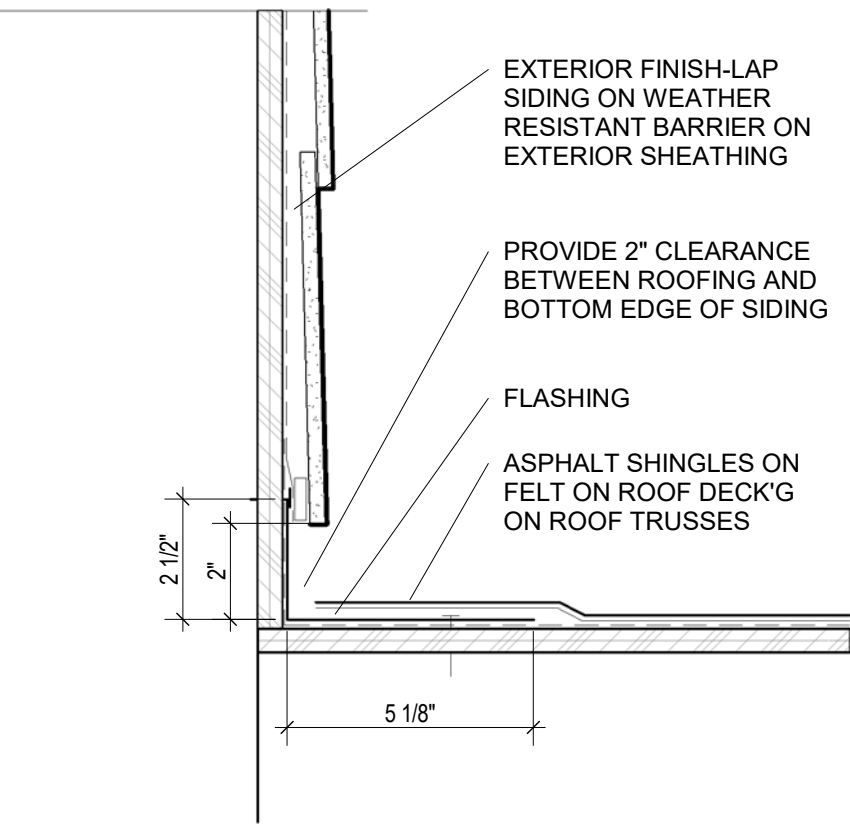
TYPICAL BATH GRAB BARS AND WOOD BLOCKING MOUNTING SCHEDULE

NOTE: ALL DIMENSIONS MEASURED FROM FINISHED FACE OF MATERIALS, UNO.
 1. AT TYPE "A" UNITS, BLOCKING REQUIRED IN BOTH BATHS. GRAB BARS REQUIRED IN BATH 1 ONLY.
 2. AT TYPE "B" UNITS, BLOCKING REQUIRED IN BOTH BATHS. NO GRAB BARS REQUIRED.

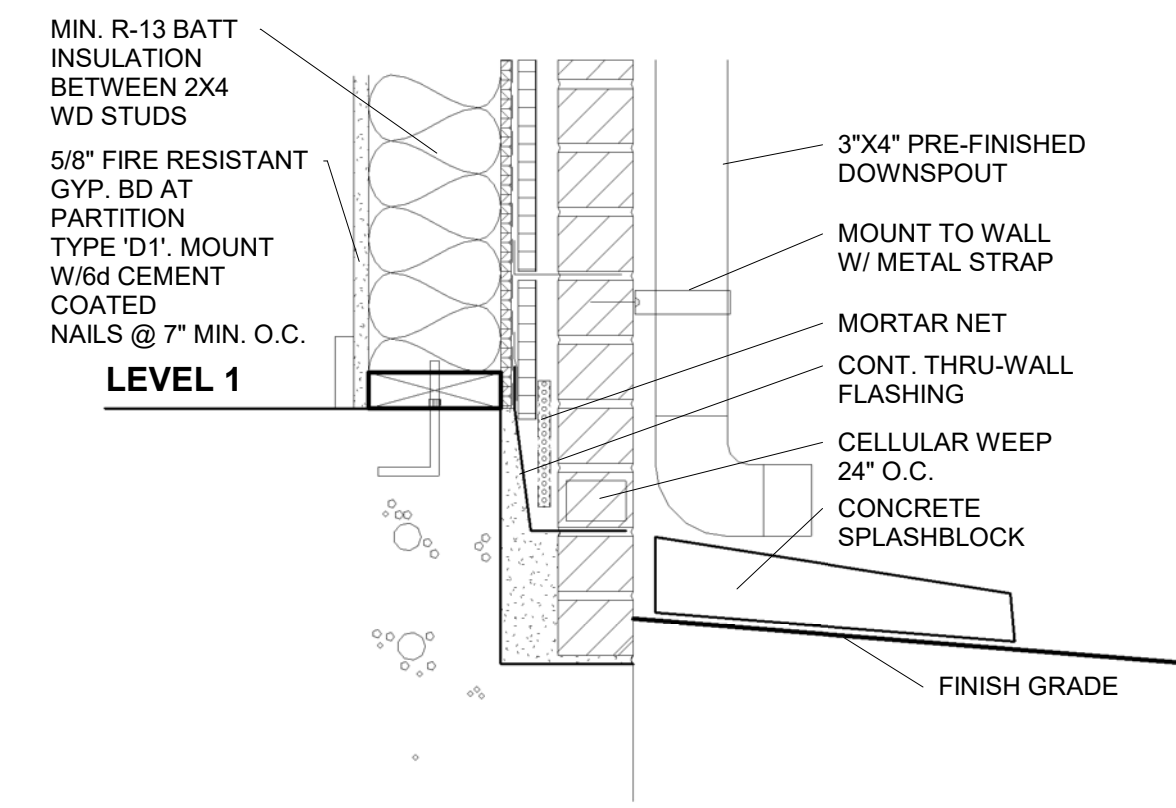
17 TYPICAL GRAB BAR MOUNTING SCHEDULE FOR ROLL-IN SHOWER
 A3 1/4" = 1'-0"



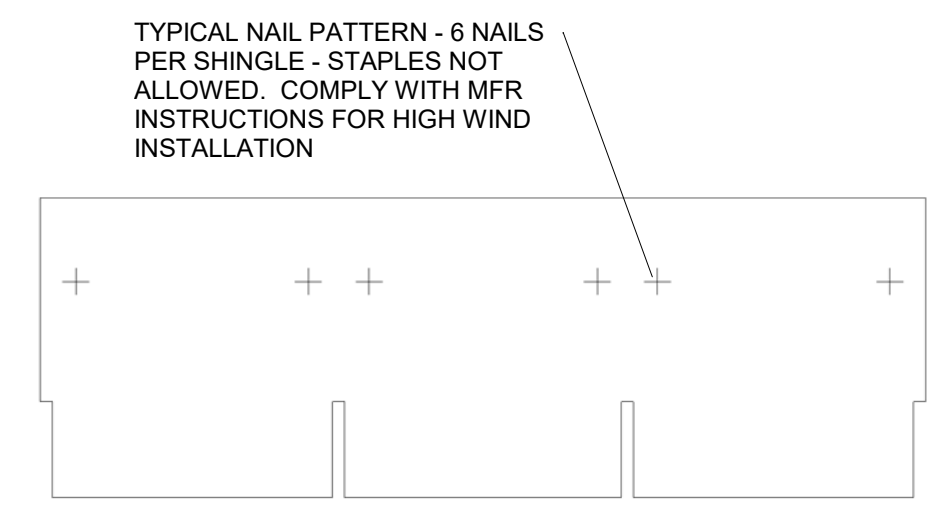
16 GUTTER EXPANSION JOINT
 A3 3" = 1'-0"



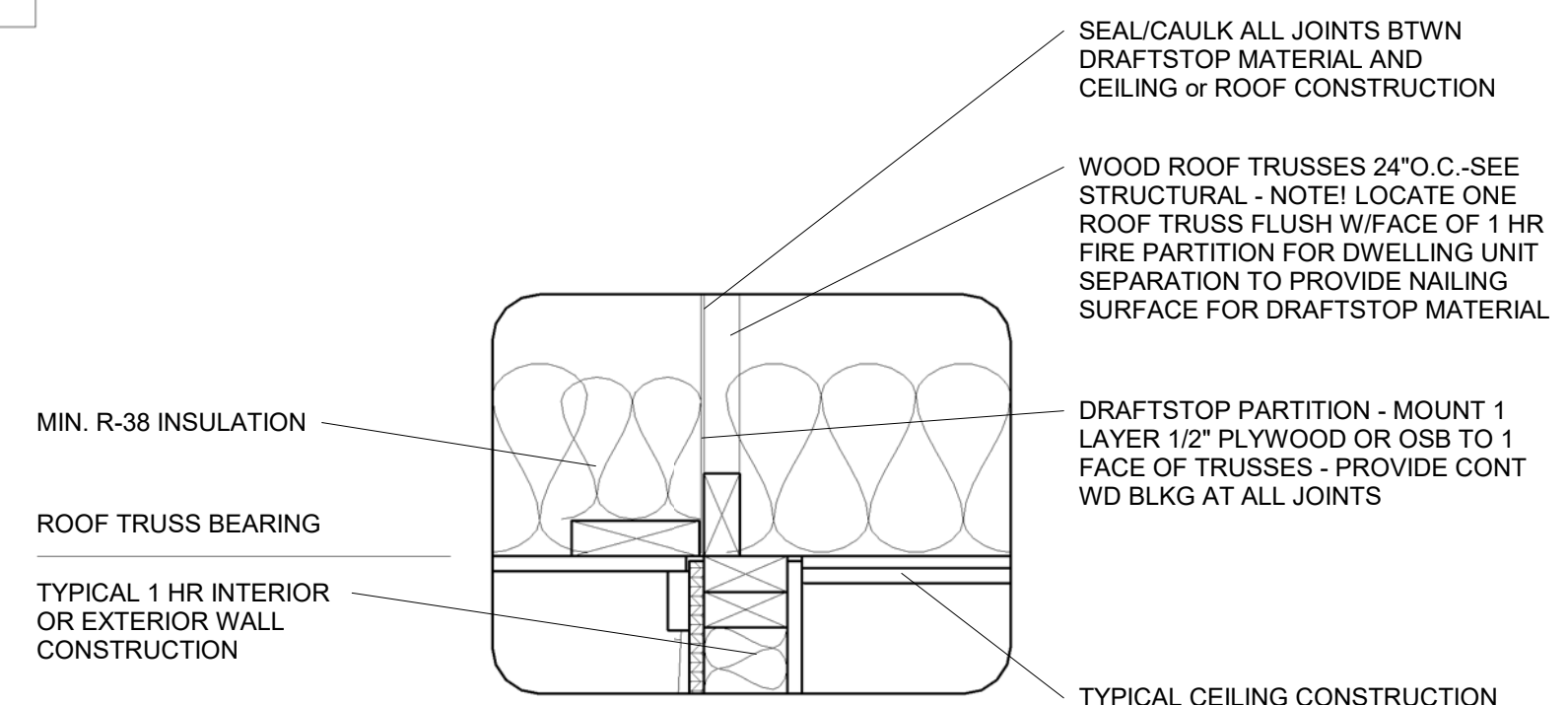
15 ROOF/WALL FLASHING
 A3 3" = 1'-0"



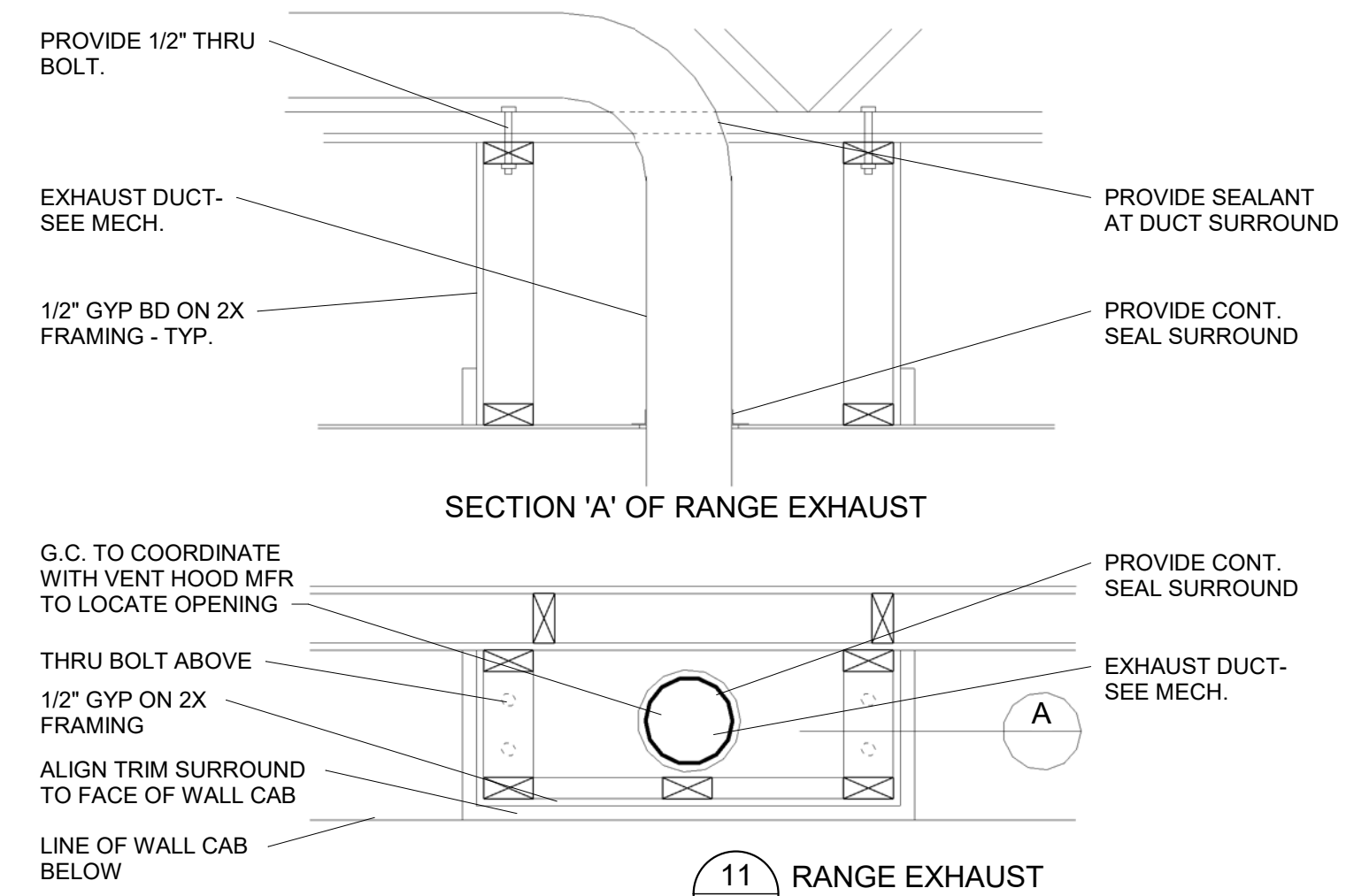
14 TYP. DOWNSPOUT & SPLASHBLOCK
 A3 1 1/2" = 1'-0"



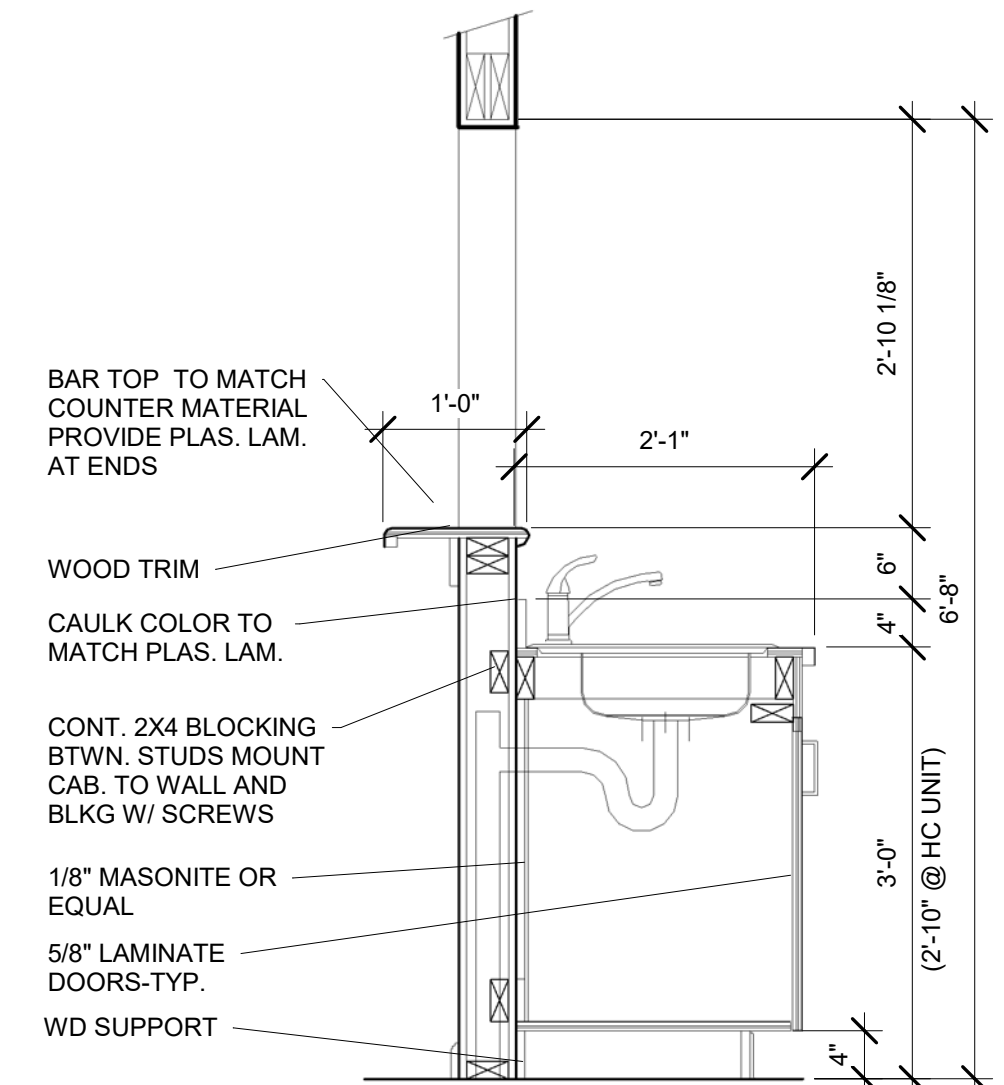
13 SHINGLE NAILING PATTERN
 A3 1 1/2" = 1'-0"



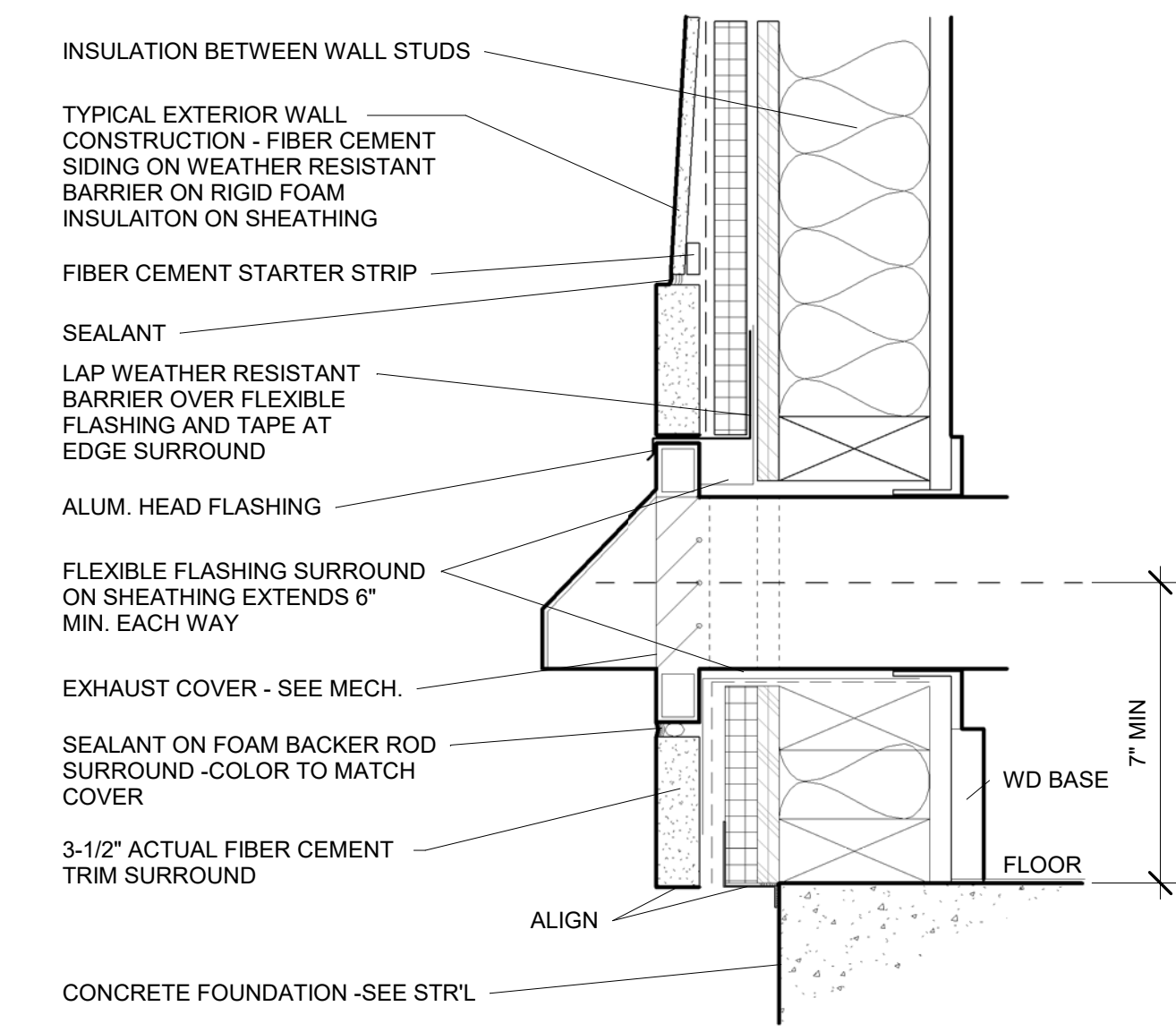
12 DRAFTSTOP PARTITION AT 1HR WALL
 A3 1 1/2" = 1'-0"



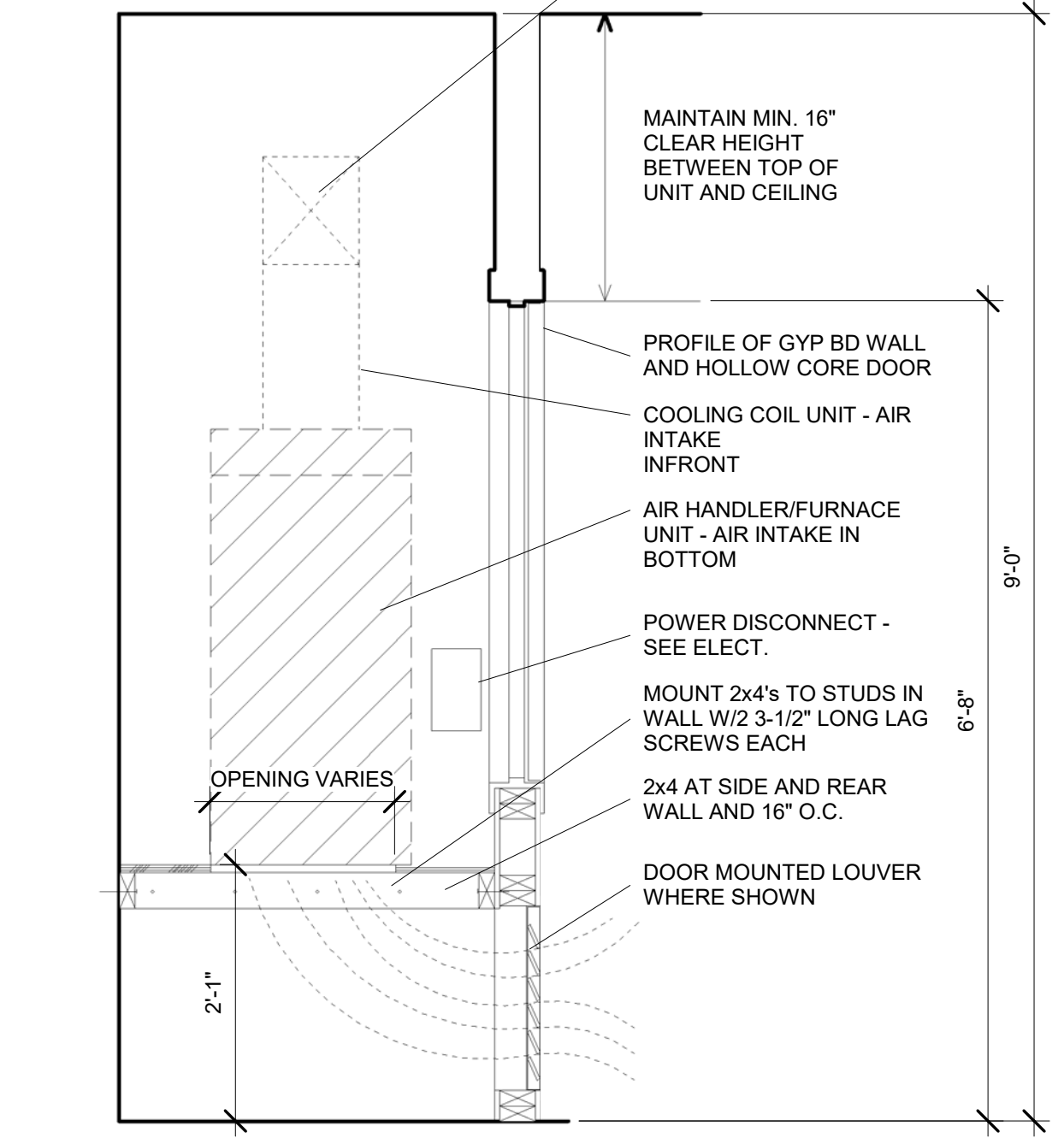
11 RANGE EXHAUST
 A3 1" = 1'-0"



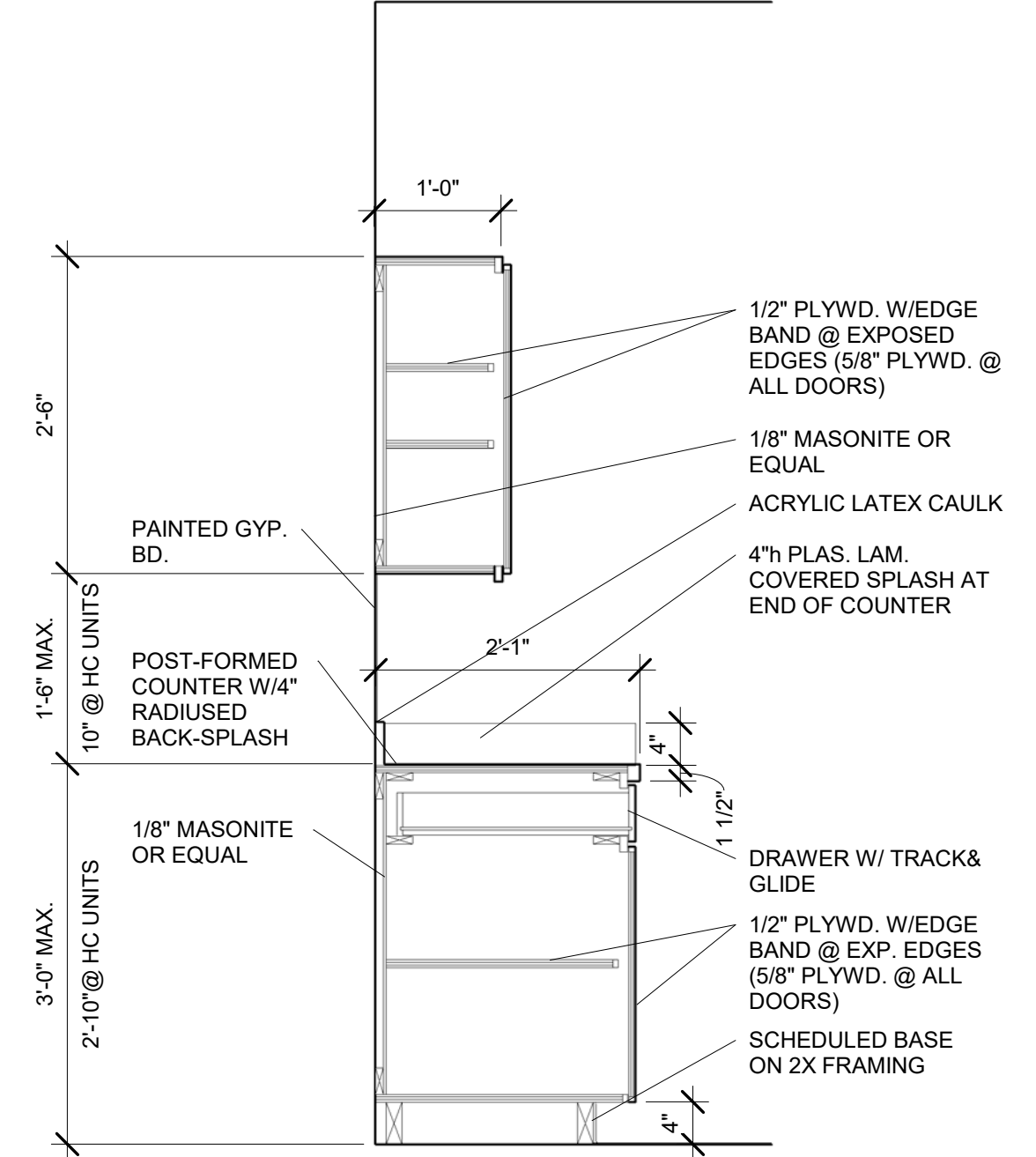
10 KITCHEN CABINET - BAR
 A3 3/4" = 1'-0"



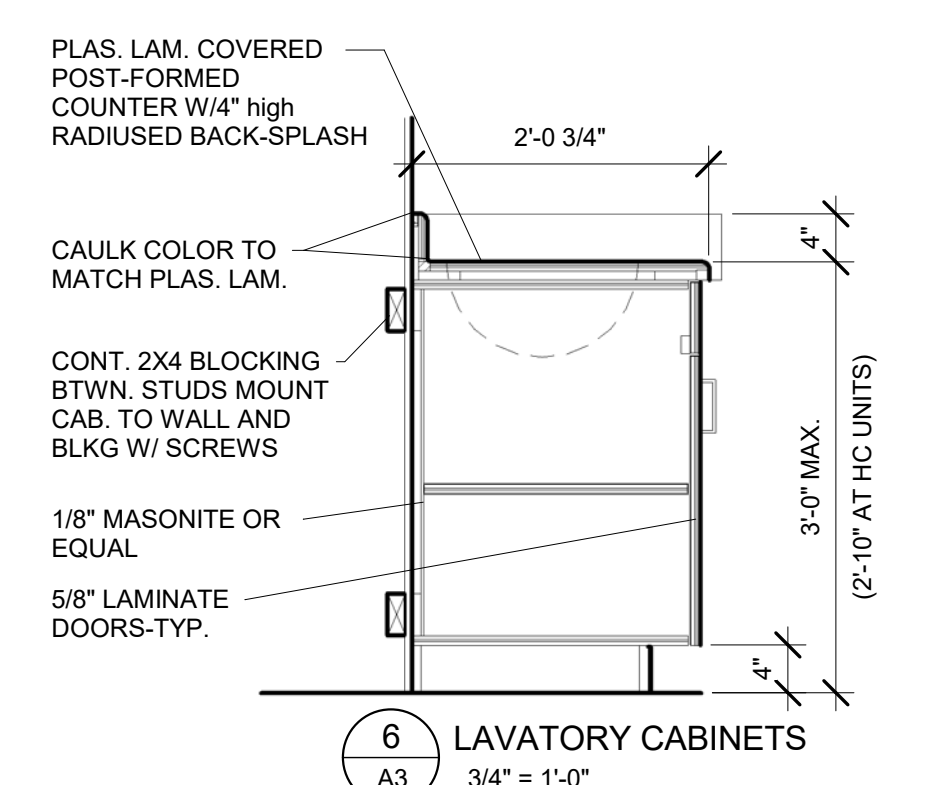
9 EXHAUST DETAIL
 A3 3" = 1'-0"



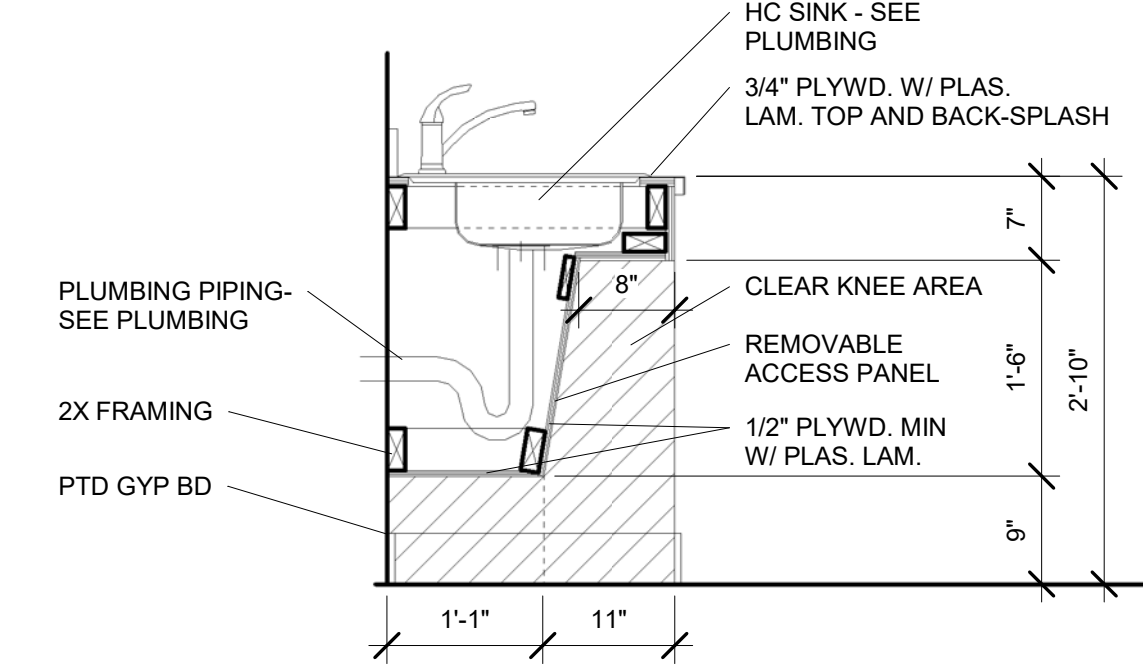
8 MECHANICAL CLOSET SECTION
 A3 3/4" = 1'-0"



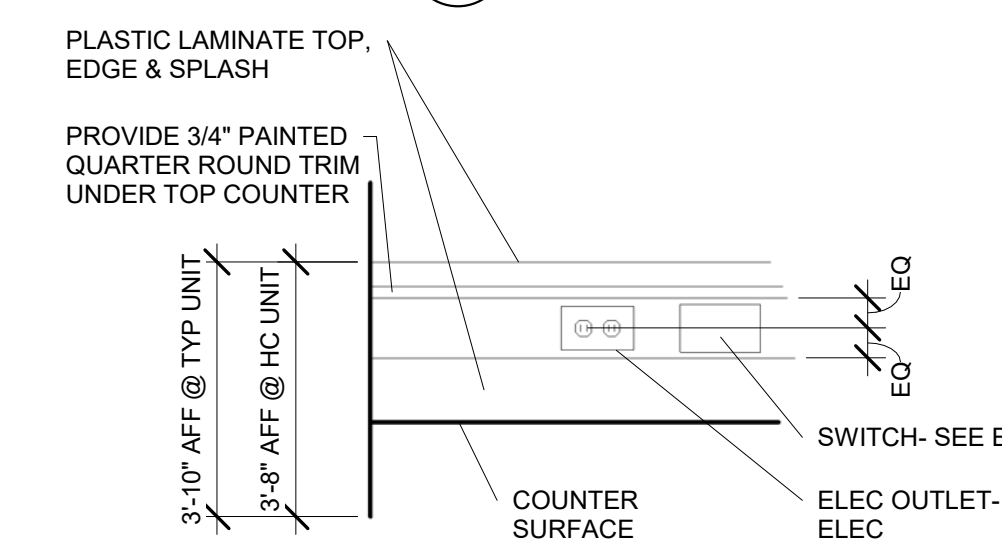
7 KITCHEN CABINET
 A3 3/4" = 1'-0"



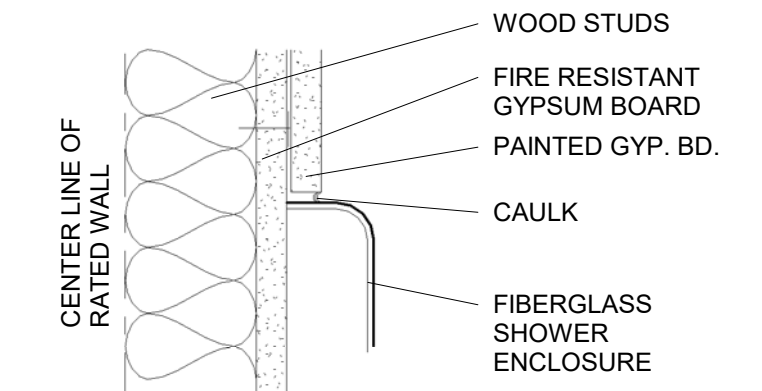
6 LAVATORY CABINETS
 A3 3/4" = 1'-0"



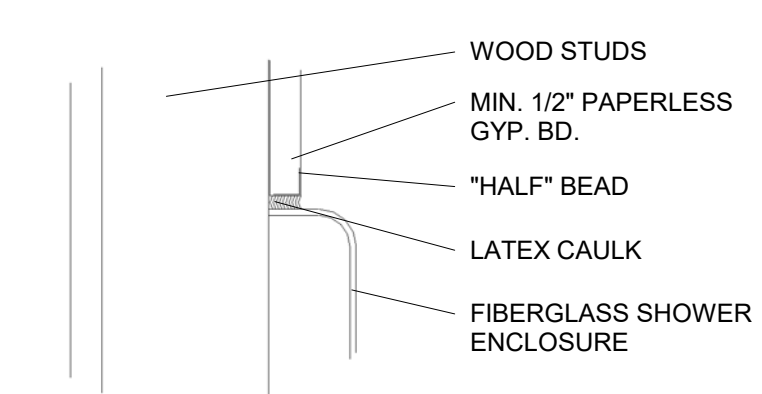
5 HC KITCHEN SINK
 A3 3/4" = 1'-0"



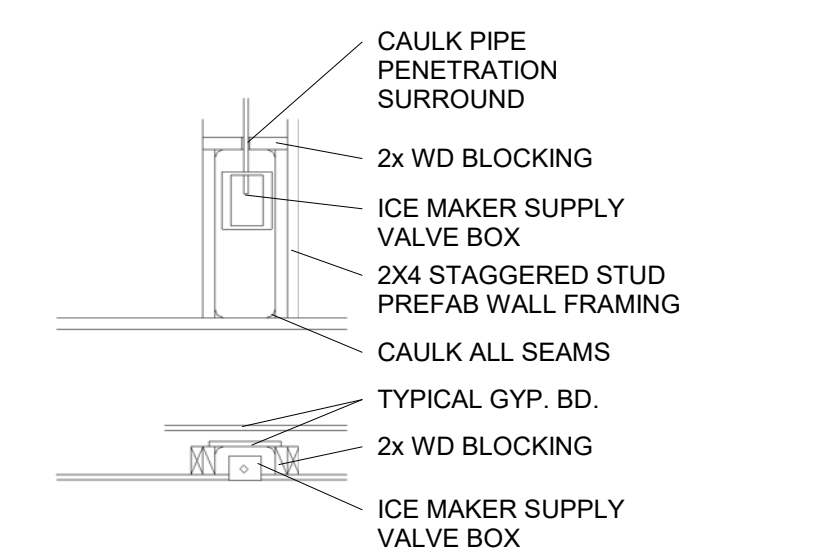
4 ELEC. OUTLET LOCATION
 A3 1/4" = 1'-0"



3 SHOWER ENCLOSURE AT RATED WALL
 A3 3" = 1'-0"



2 SHOWER ENCLOSURE AT TYPICAL INTERIOR WALL
 A3 3" = 1'-0"



1 ICE MAKER SUPPLY
 A3 1/2" = 1'-0"



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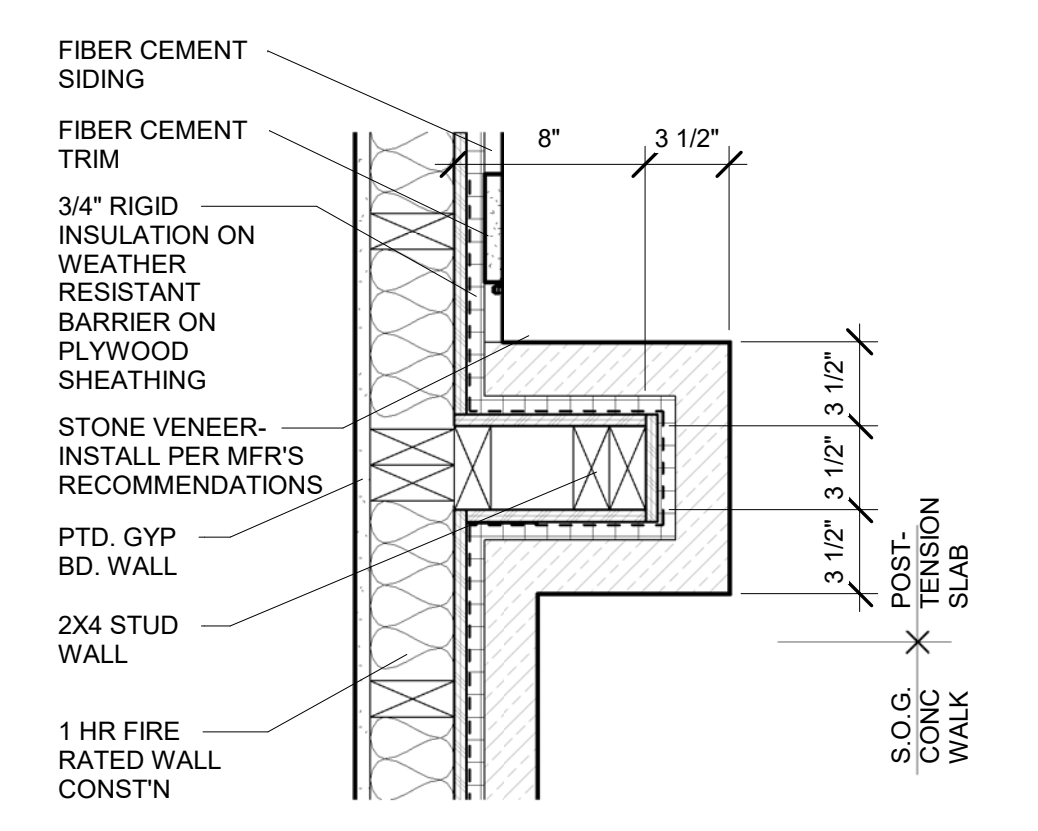
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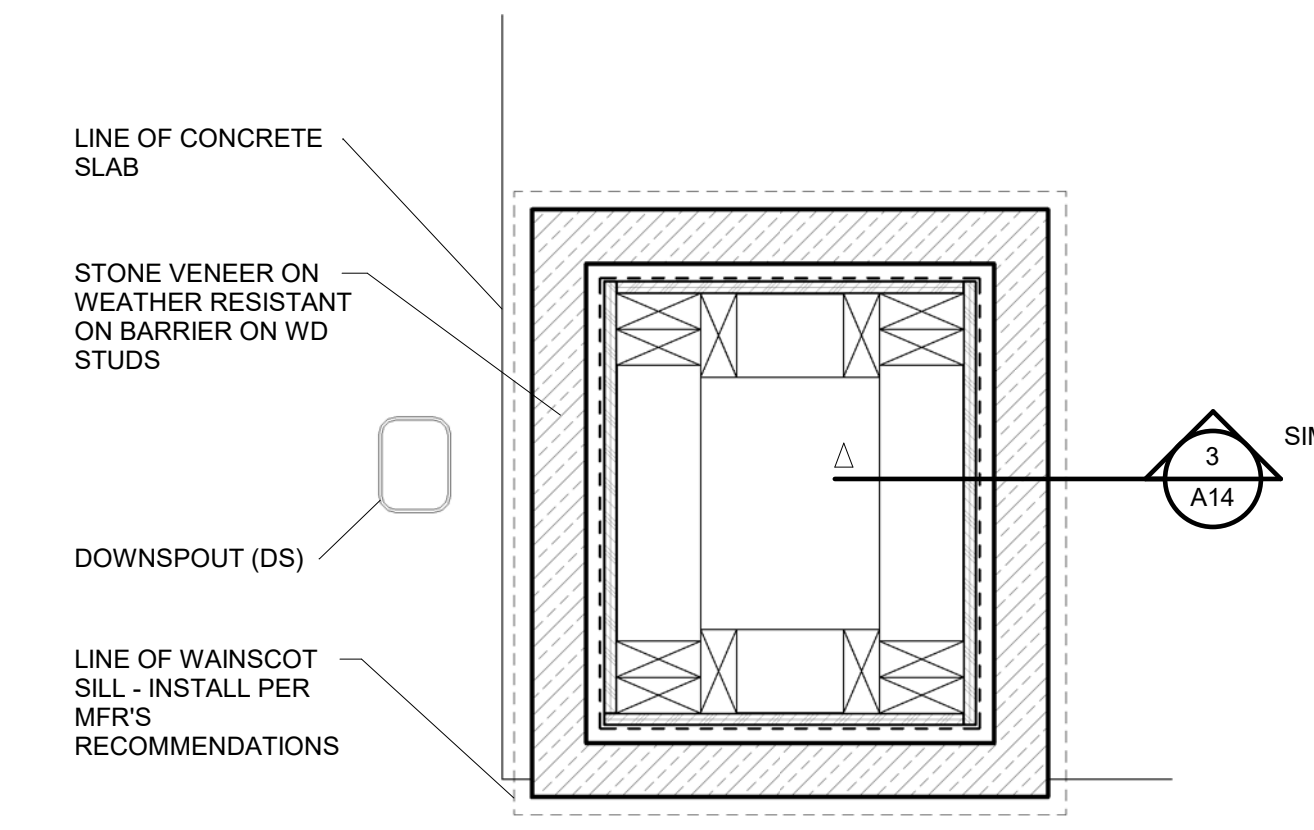
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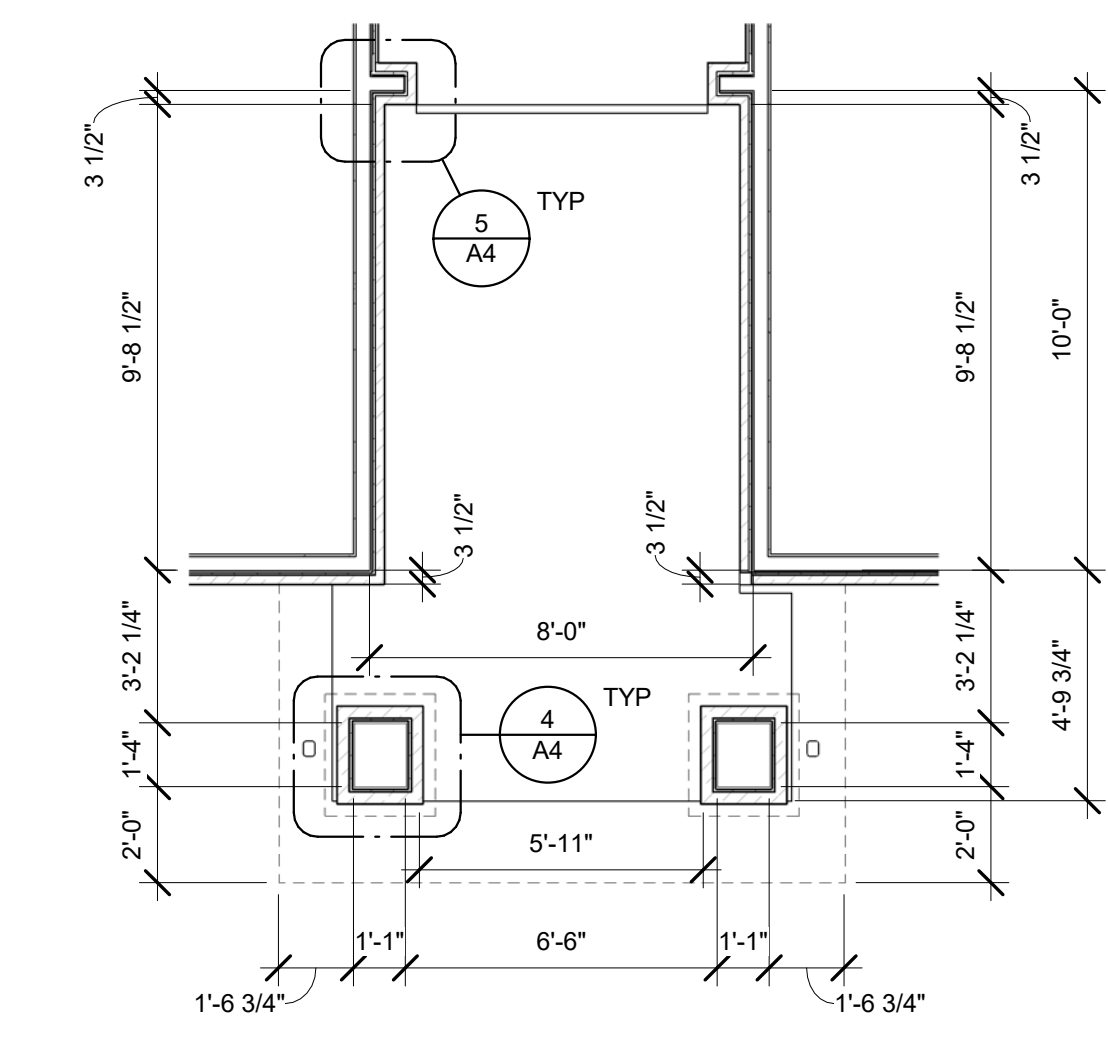
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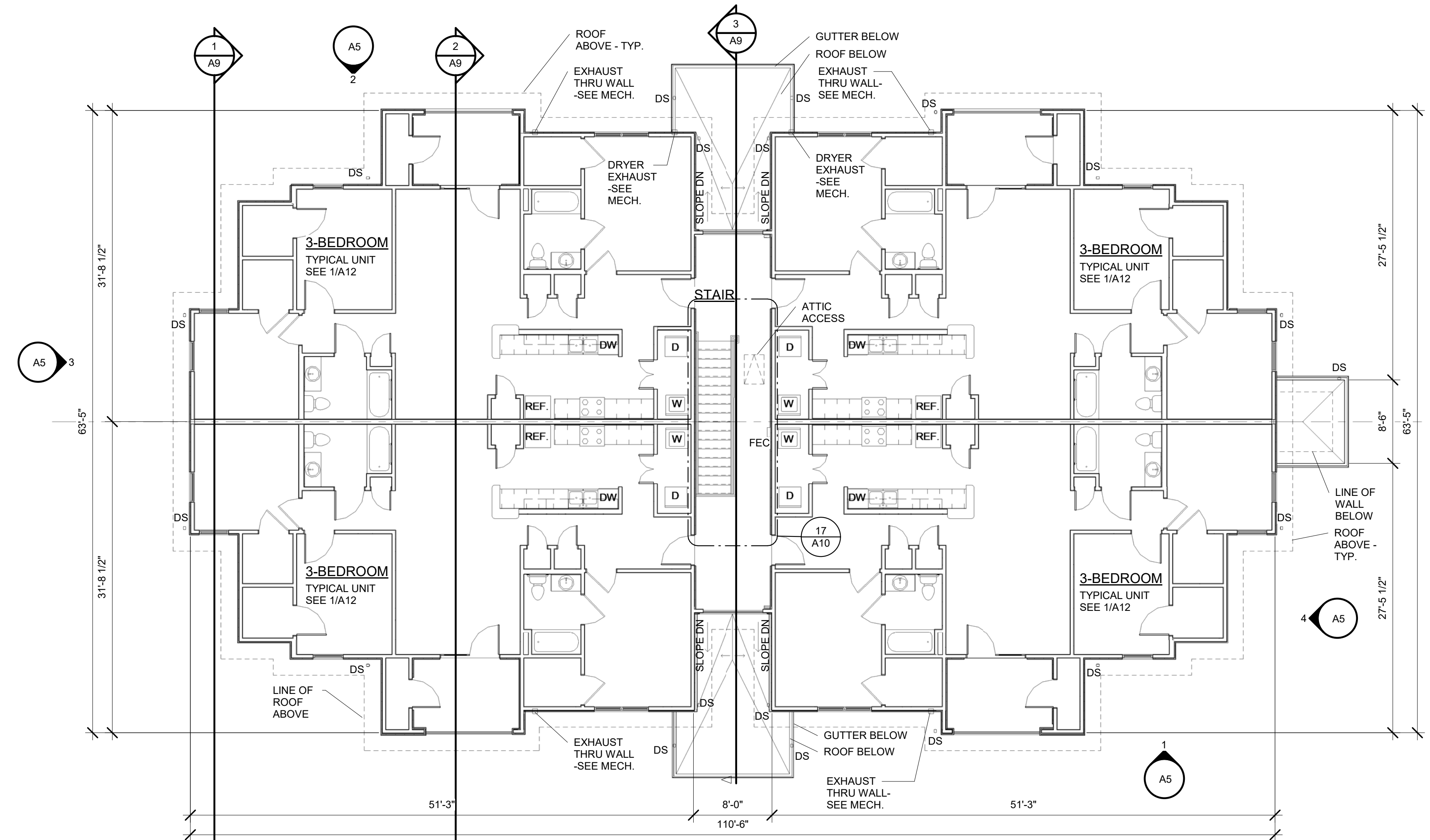
5 BREEZEWAY ENTRY
 1 1/2" = 1'-0"



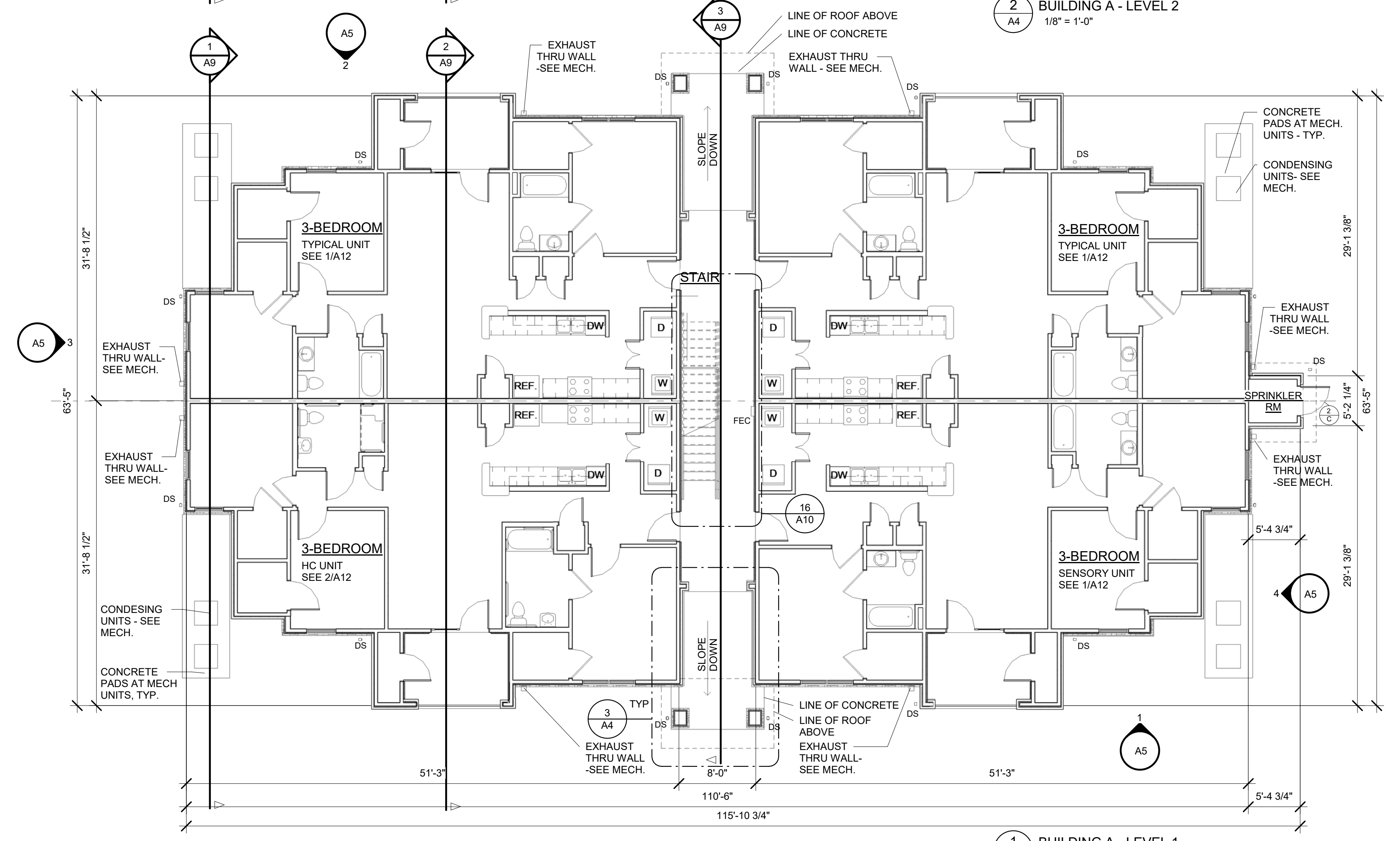
4 COLUMN DETAIL
 1 1/2" = 1'-0"



3 CANOPY ENLARGED PLAN
 1/4" = 1'-0"



2 BUILDING A - LEVEL 2
 1/8" = 1'-0"



1 BUILDING A - LEVEL 1
 1/8" = 1'-0"

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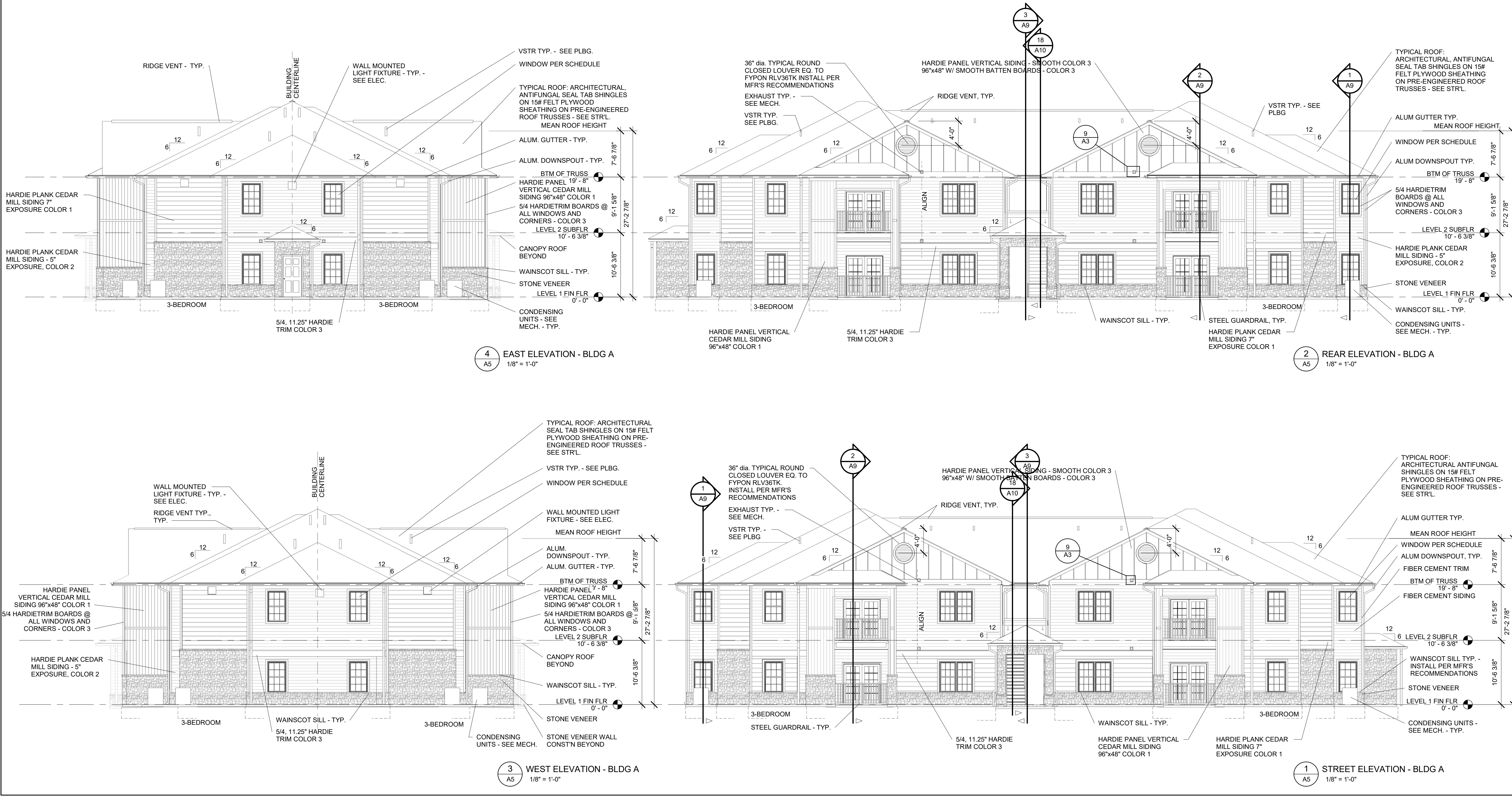
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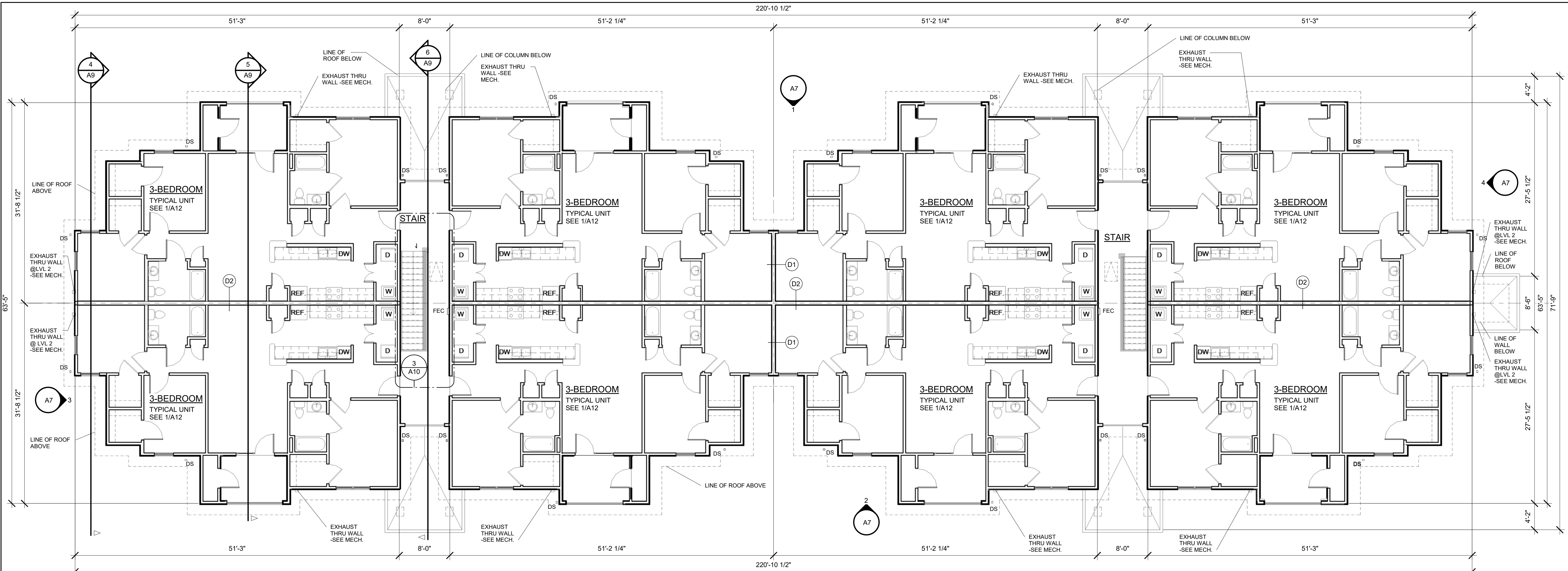
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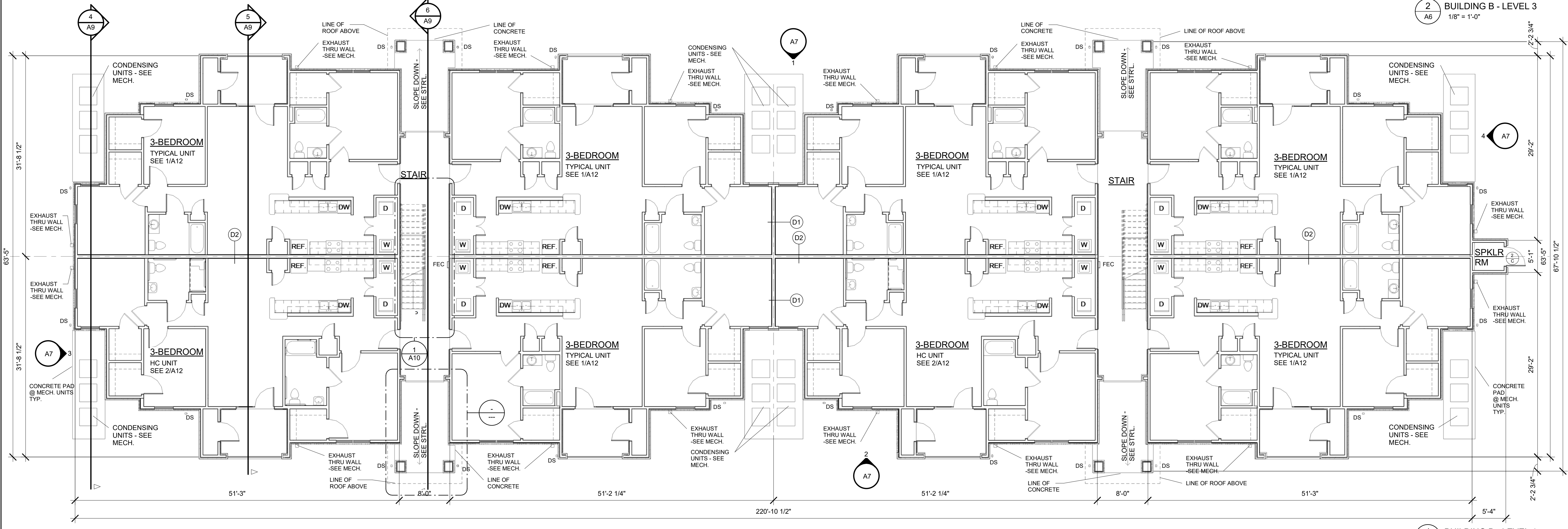
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2 BUILDING B - LEVEL 3
1/8" = 1'-0"



1 BUILDING B - LEVEL 1
1/8" = 1'-0"

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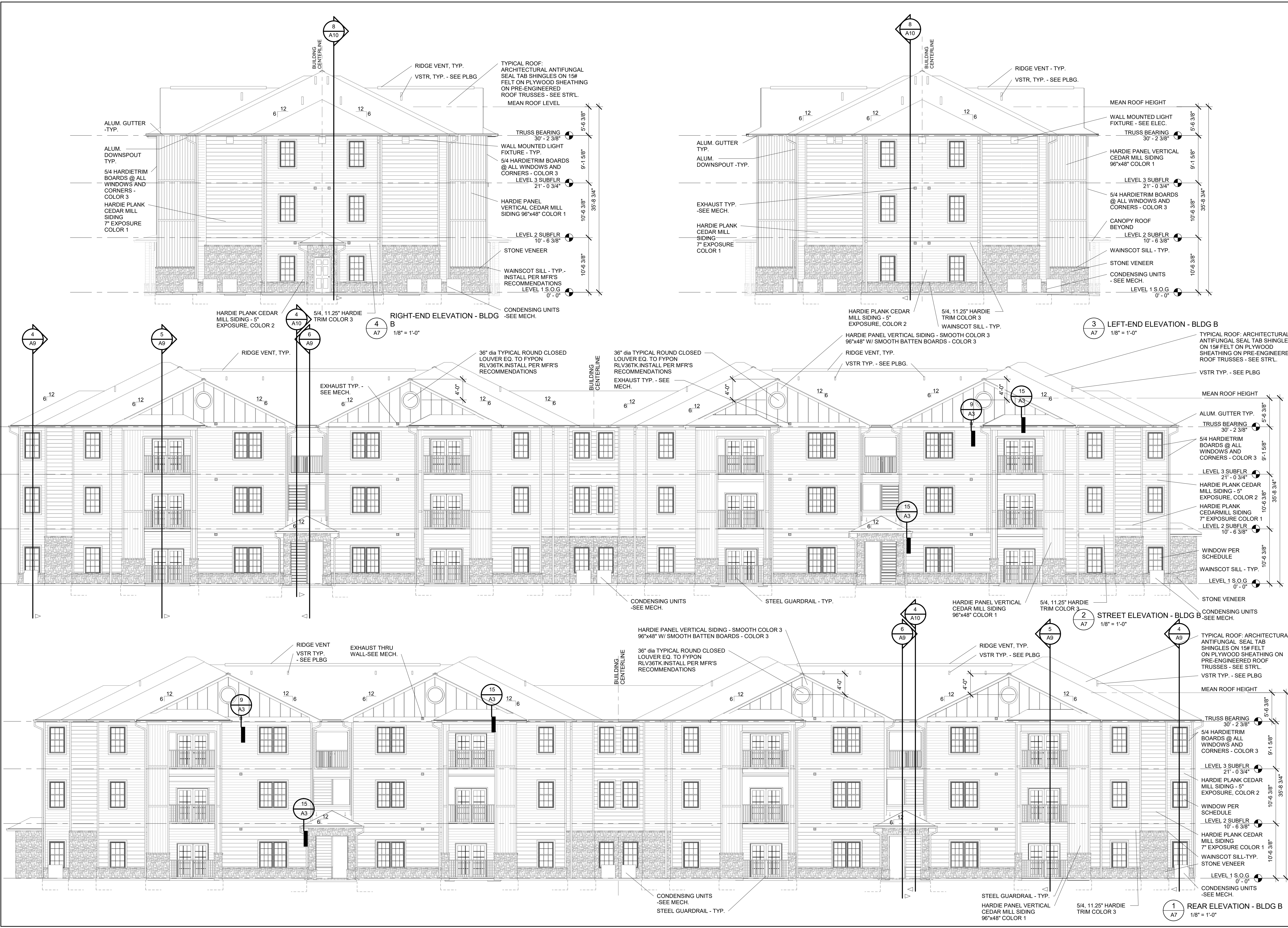
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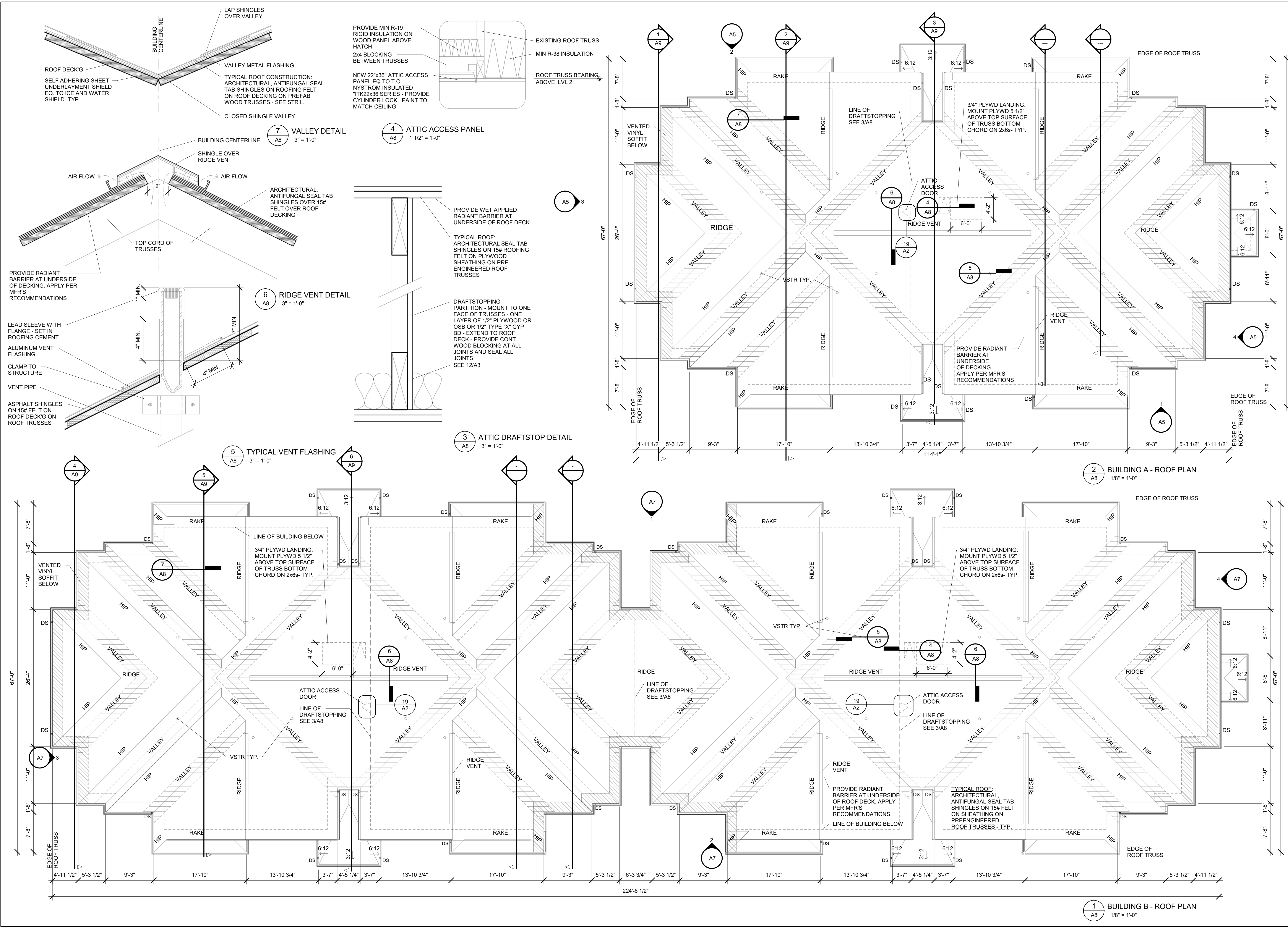
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GENERAL NOTES

1. VENTILATION & DRAINAGE CALCULATIONS ARE ON FILE @ HAPC.



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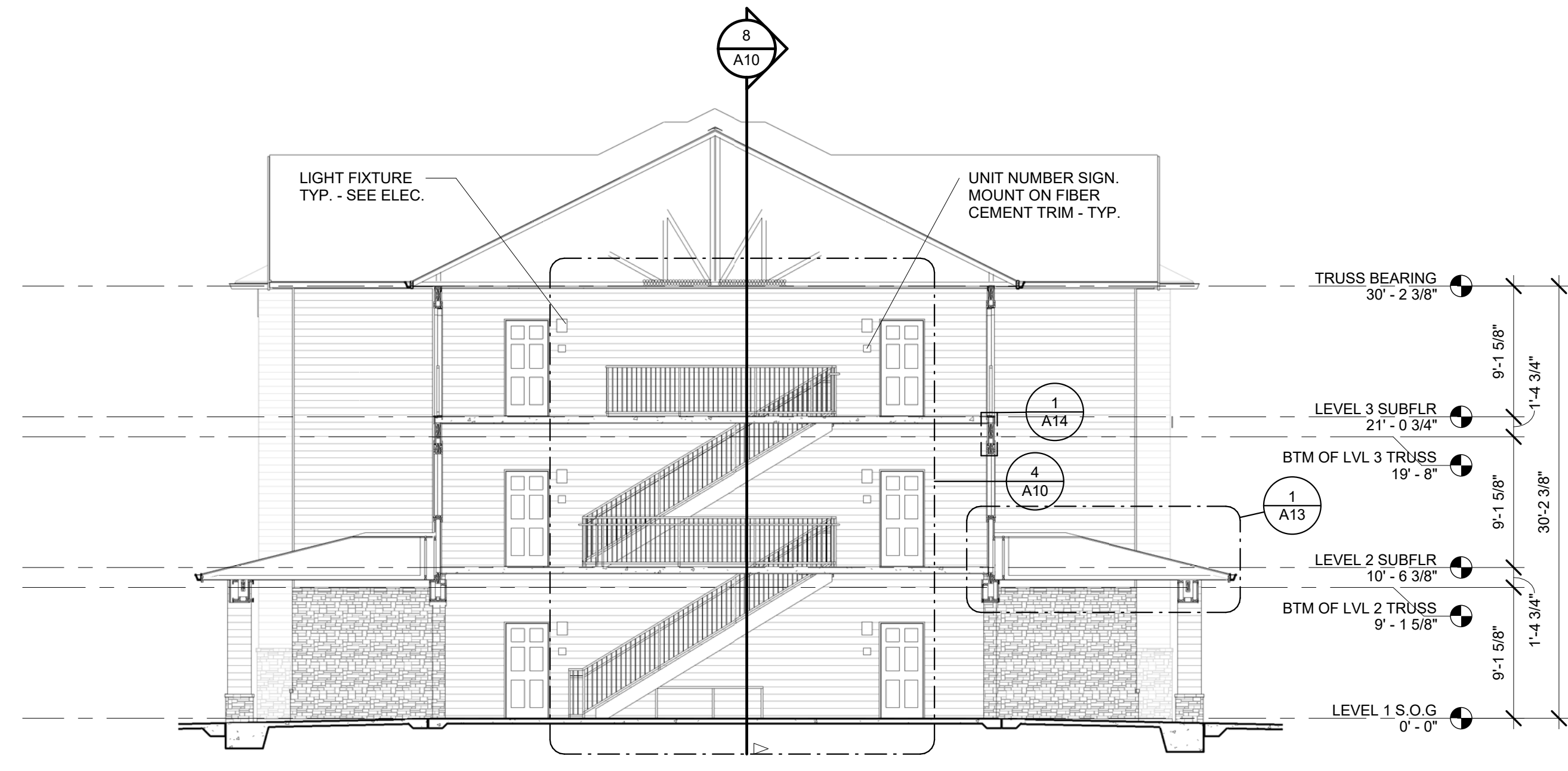
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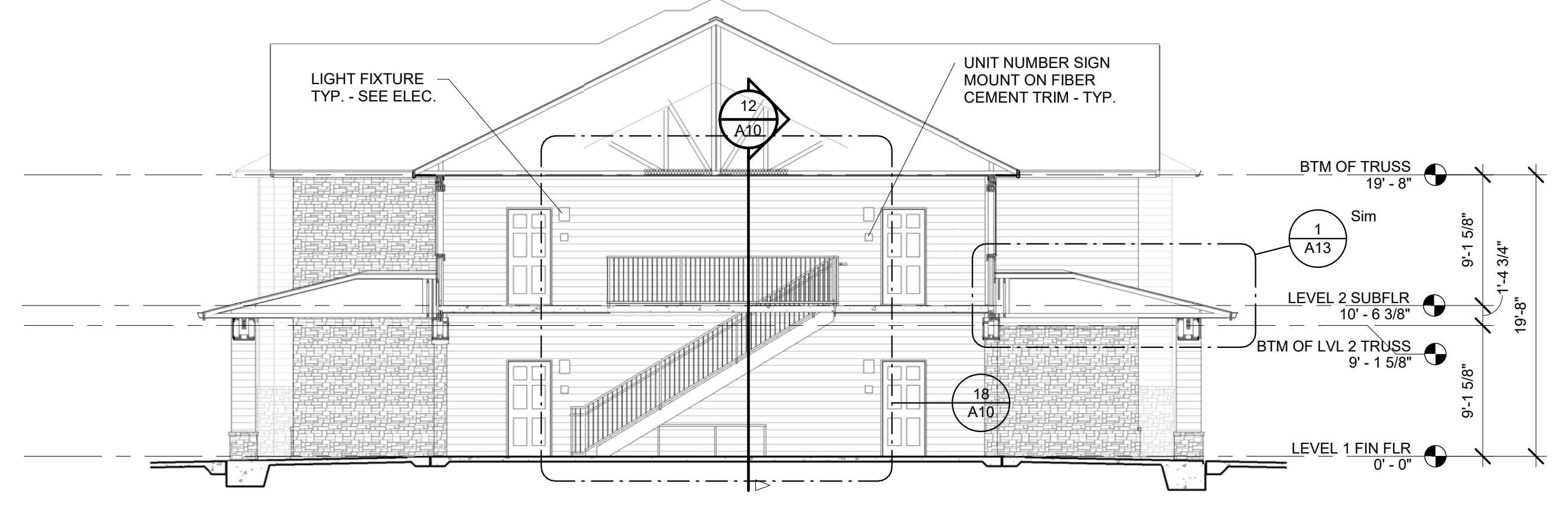
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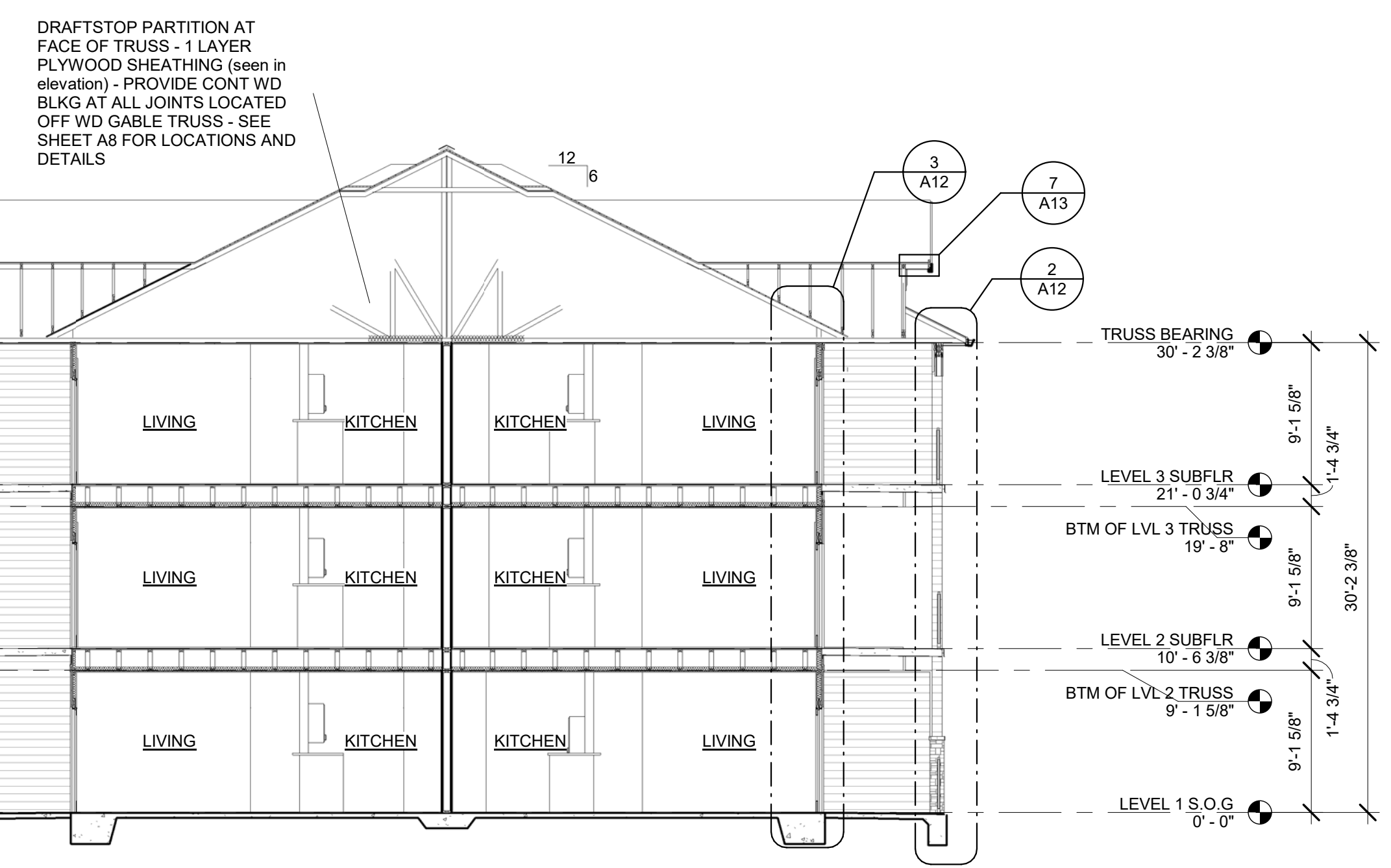
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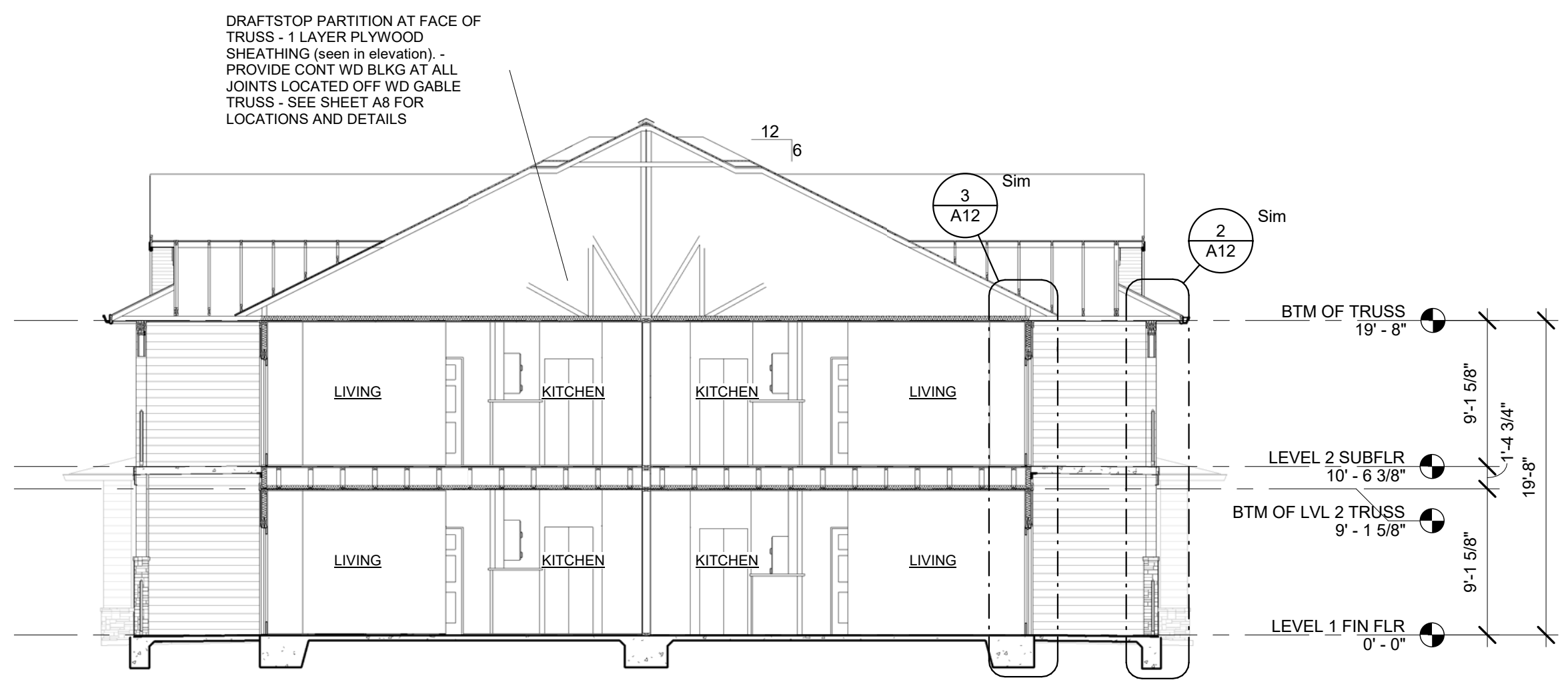
6 SECTION - BLDG B STAIRS
A9 1/8" = 1'-0"



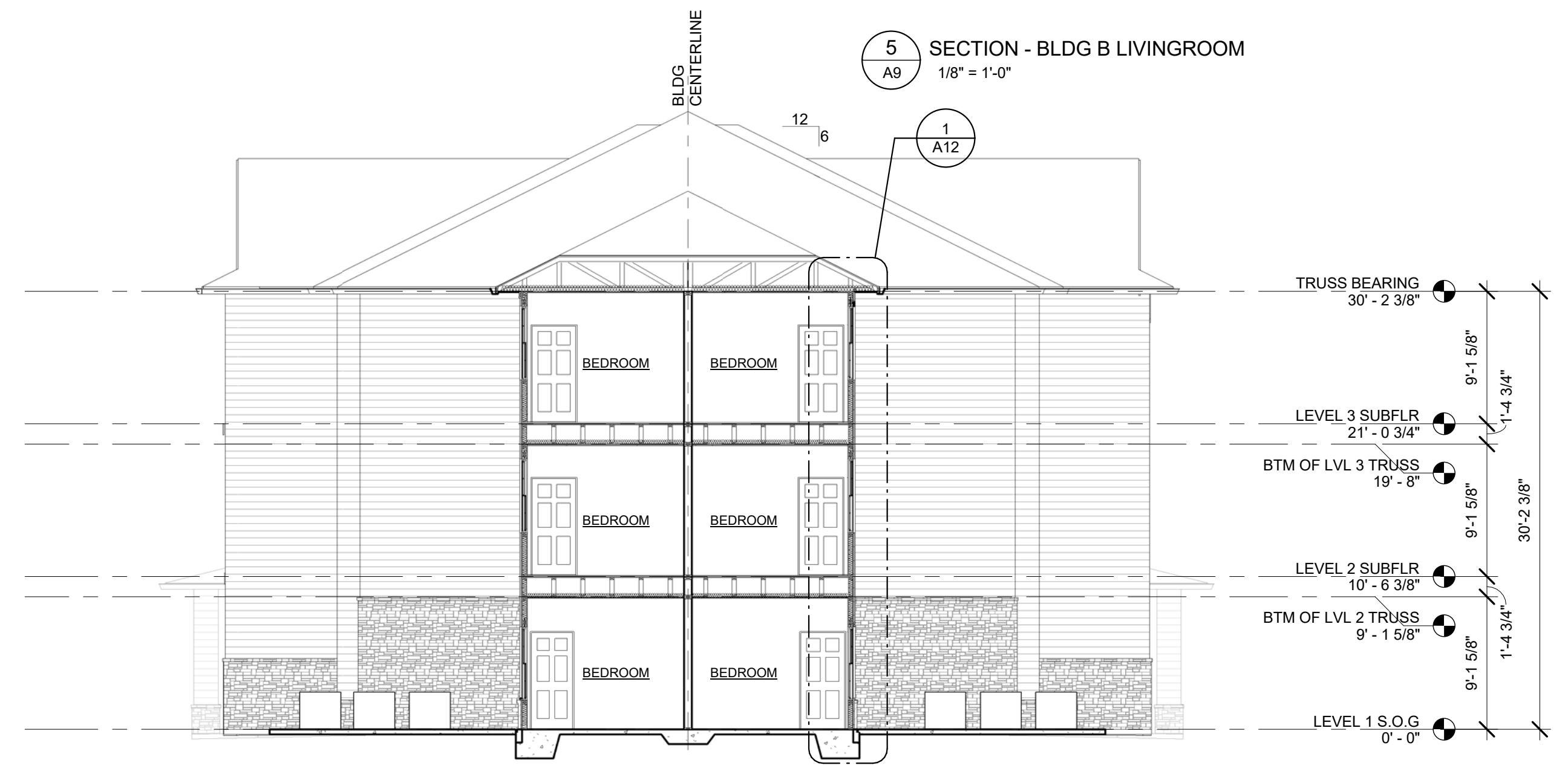
3 SECTION - BREEZEWAY BLDG A
A9 1/8" = 1'-0"



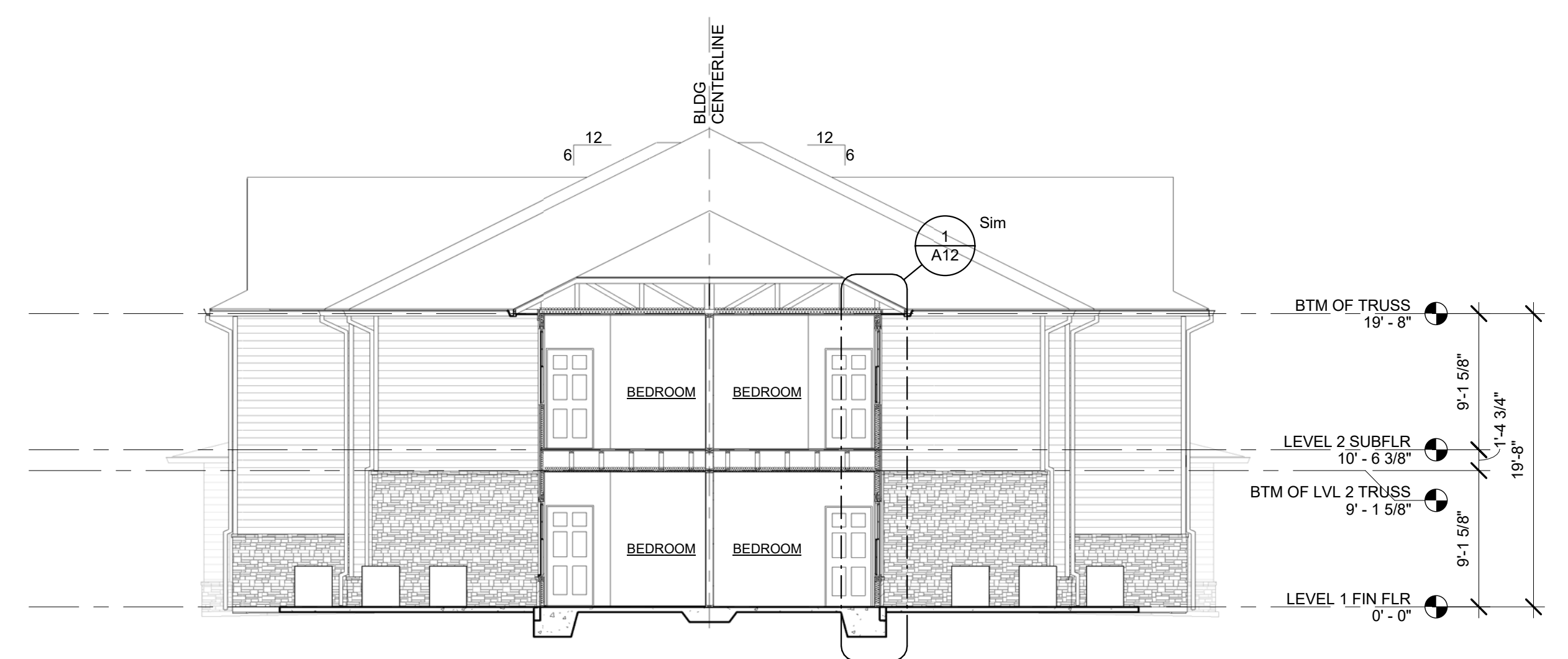
5 SECTION - BLDG B LIVINGROOM
A9 1/8" = 1'-0"



2 SECTION - 3 BD LIVING ROOM
A9 1/8" = 1'-0"



4 SECTION - BLDG B 3-BD
BEDROOM
A9 1/8" = 1'-0"

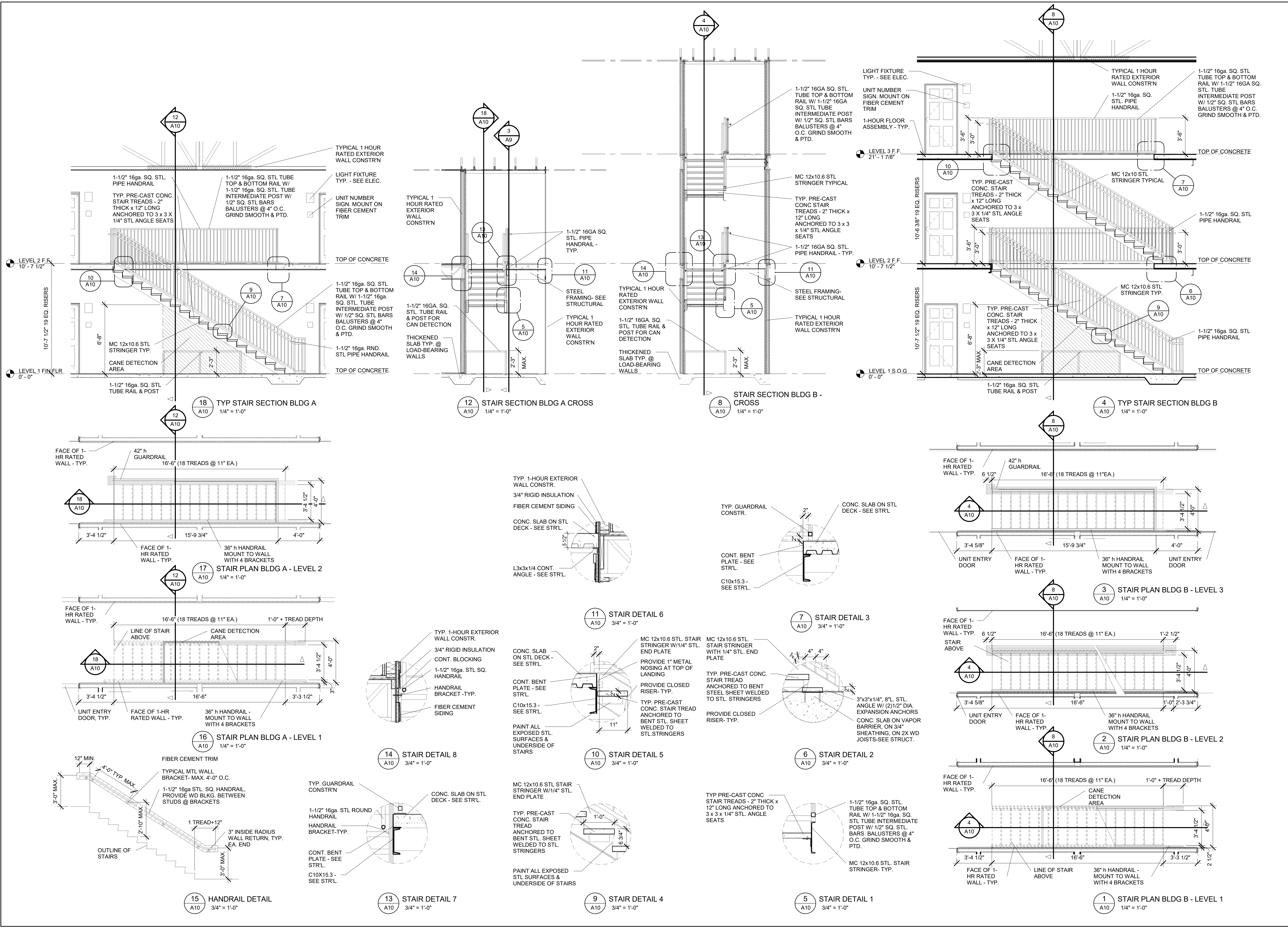


1 SECTION - 3-BD BEDROOM
A9 1/8" = 1'-0"



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PROJECT NUMBER
597
PROJECT
The Park at Barton

900 E Barton Ave
West Memphis, AR 72301

SHEET NUMBER

A10

CAD FILE NUMBER
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- LEGEND**
- (B) WALL/PARTITION TYPE - SEE PARTITION SCHEDULE SHEET A2
 - (A) DOOR & FRAME MARK - SEE DOOR SCHEDULE SHEET A2
 - (FE) RECHARGEABLE FIRE EXTINGUISHER AND CABINET
 - (F) RECHARGEABLE FIRE EXTINGUISHER
 - (FD) FLOOR DRAIN - SEE PLUMBING
 - (T) THERMOSTAT - MOUNT HEIGHT @ 46" A.F.F. ON CENTER
 - (F) FLOOR FINISH MATERIAL TRANSITION
 - (IMVB) ICE MAKER VALVE BOX
 - (WMVB) WASHING MACHINE VALVE BOX
 - (WH) WATER HEATER - SEE PLBG

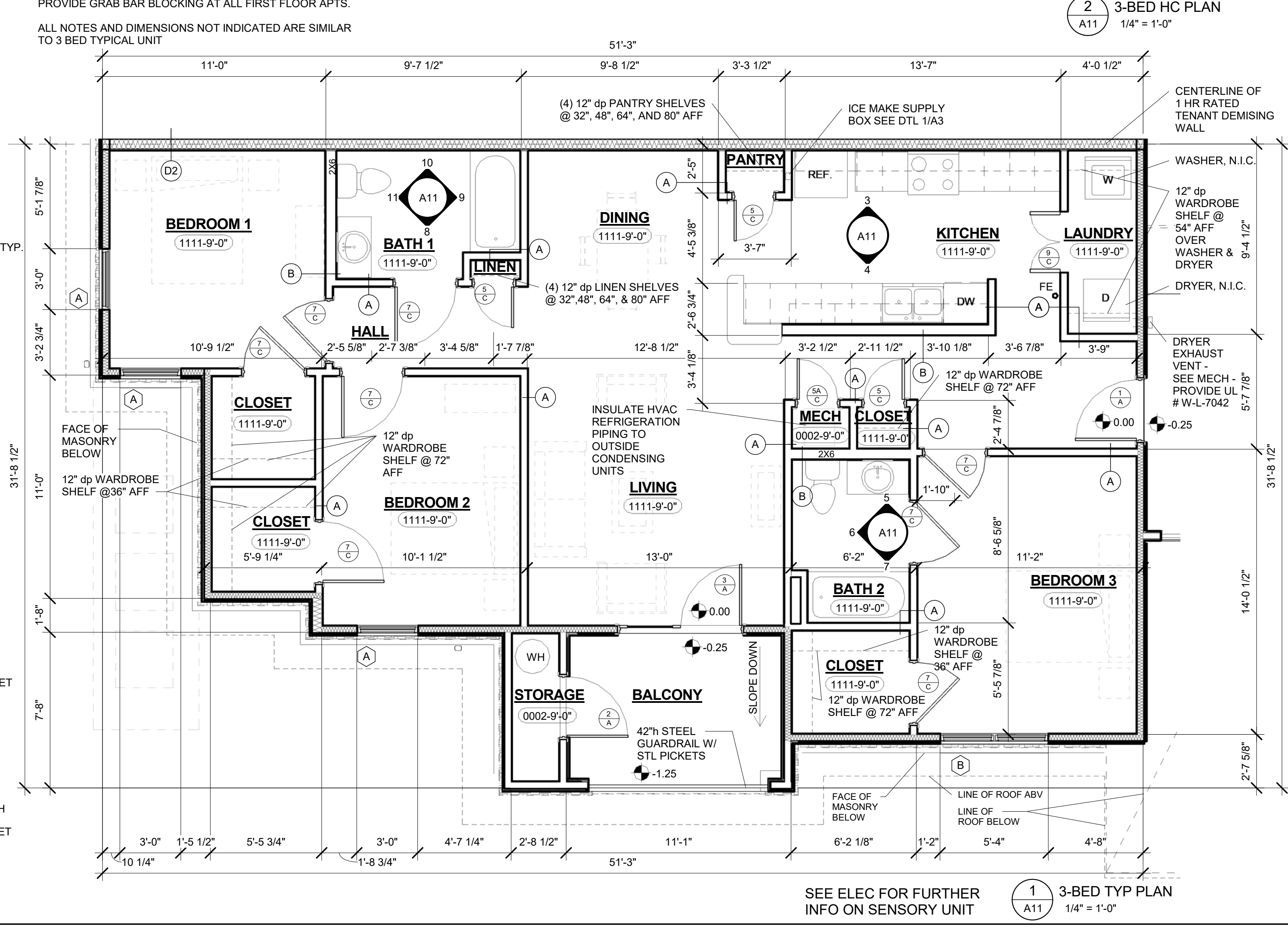
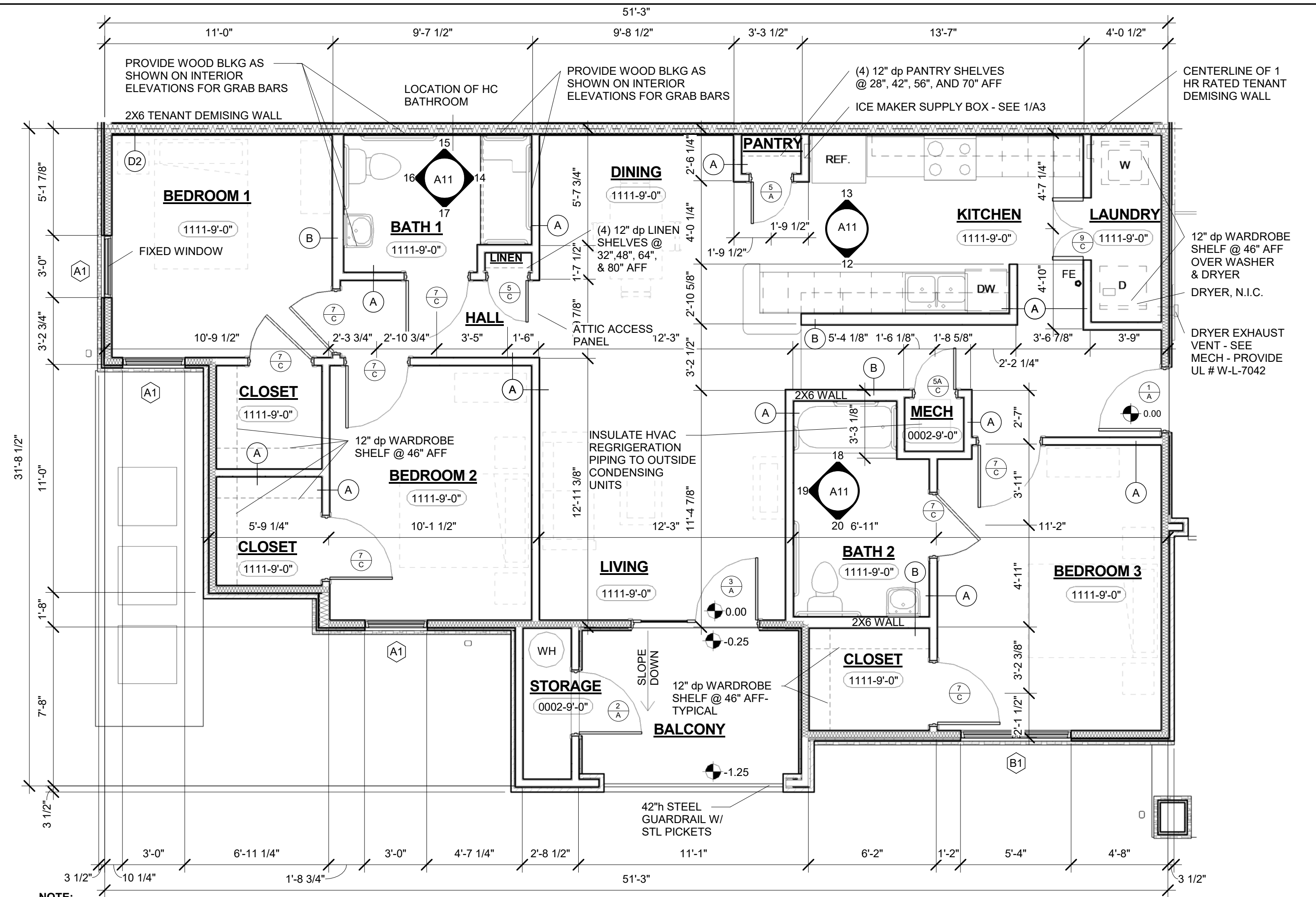
- FINISH SCHEDULE**
- | | |
|---------|---|
| FLOOR | 0 - SEALED CONCRETE (CONC) |
| | 1 - VINYL PLANK |
| | 2 - CARPET (CPT) |
| | 3 - CERAMIC TILE (TILE) |
| BASE | 0 - EXPOSED CONSTRUCTION |
| | 1 - PAINTED WOOD |
| | 2 - 4" HIGH RESILIENT |
| WALLS | 0 - UNFINISHED GYP BD |
| | 1 - PAINTED GYP BD |
| | 2 - CERAMIC TILE |
| CEILING | 0 - EXPOSED CONSTRUCTION |
| | 1 - PAINTED GYP BD |
| | 2 - UNFINISHED GYP BD |
| | 3 - PAINTED EXT. GRADE GYP SOFFIT BOARD |

- GENERAL NOTES**
- ALL DIMENSIONS ARE TO FACE OF STUD, UNLESS NOTED.
 - ALL INTERIOR ELEVATIONS, DIMENSIONS ARE TO THE FACE OF FINISH MATERIAL.
 - ALL INTERIOR PARTITIONS ARE GYPSUM BOARD ON WOOD STUDS UNLESS NOTED. SEE PARTITION SCHEDULE, A2.
 - PROVIDE PAPERLESS GYP BD AT WALLS & CEILINGS OF BATHROOMS AND LAUNDRY ROOMS, AND AT ALL WINDOW HEAD/JAMB/SILLS.
 - PROVIDE WD BLOCKING BTWN STUDS FOR MOUNTING WALL CABINETS.

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SEE ELEC FOR FURTHER INFO ON SENSORY UNIT
 1 3-BED TYP PLAN
 1/4" = 1'-0"



RESIDENTIAL EQUIPMENT SCHEDULE

MODELS LISTED BELOW ARE AS MANUFACTURED BY GENERAL ELECTRIC - EQUAL PRODUCTS BY WESTINGHOUSE, HOTPOINT, & SEARS ARE ACCEPTABLE. PROVIDE EQUIPMENT IN MANUFACTURER'S STANDARD "BLACK" COLOR. PROVIDE ENERGY STAR EQUIPMENT WHERE POSSIBLE.

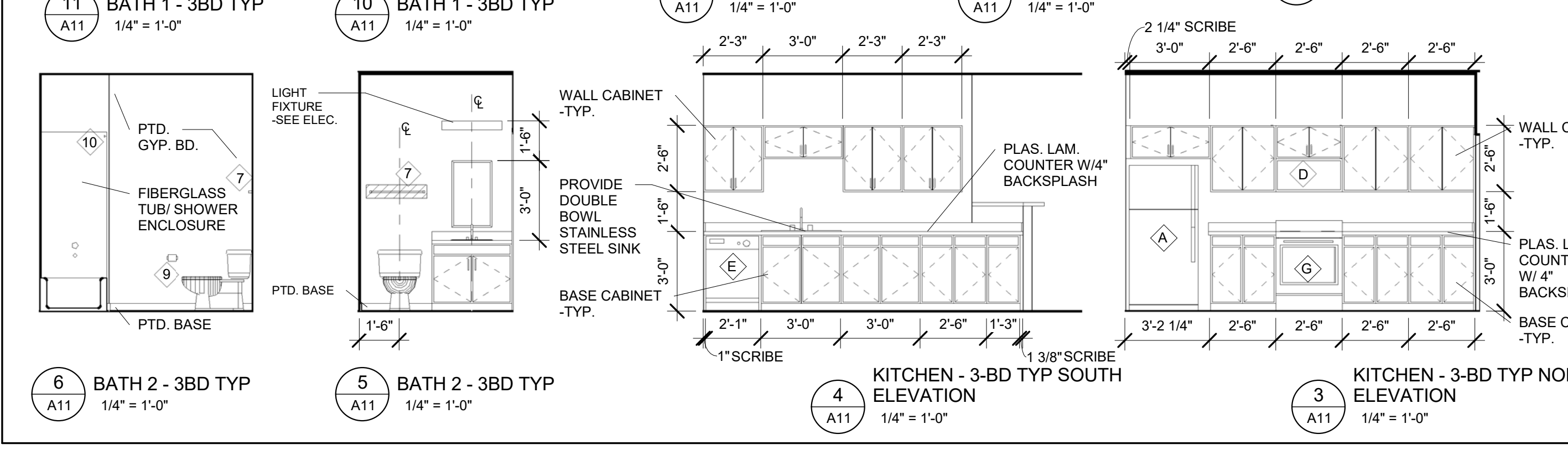
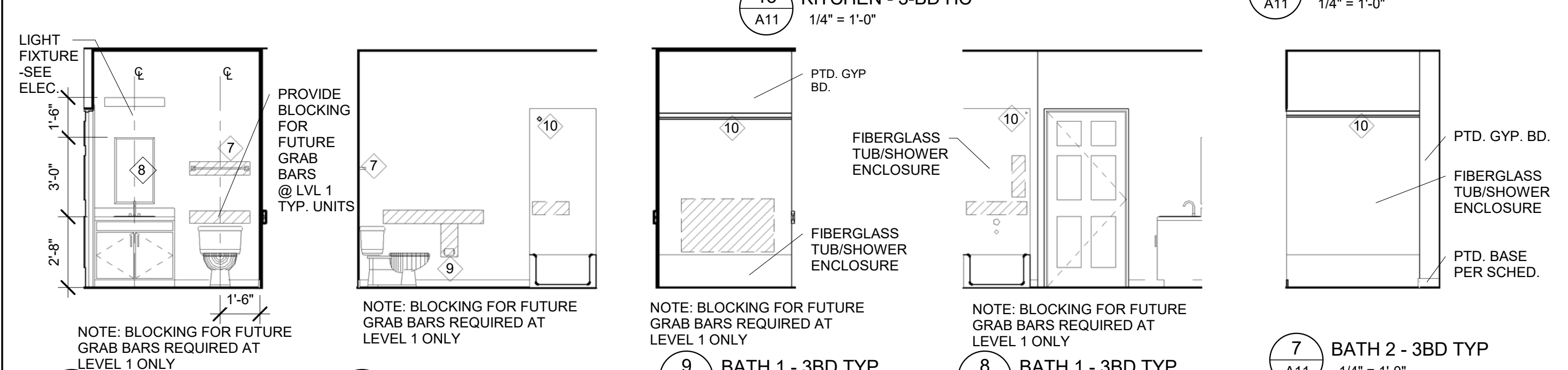
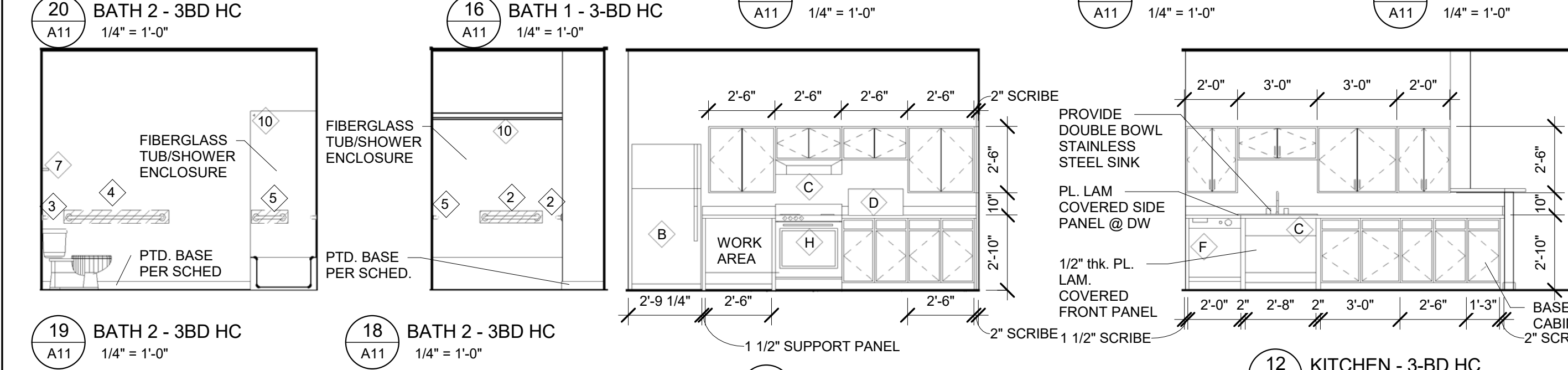
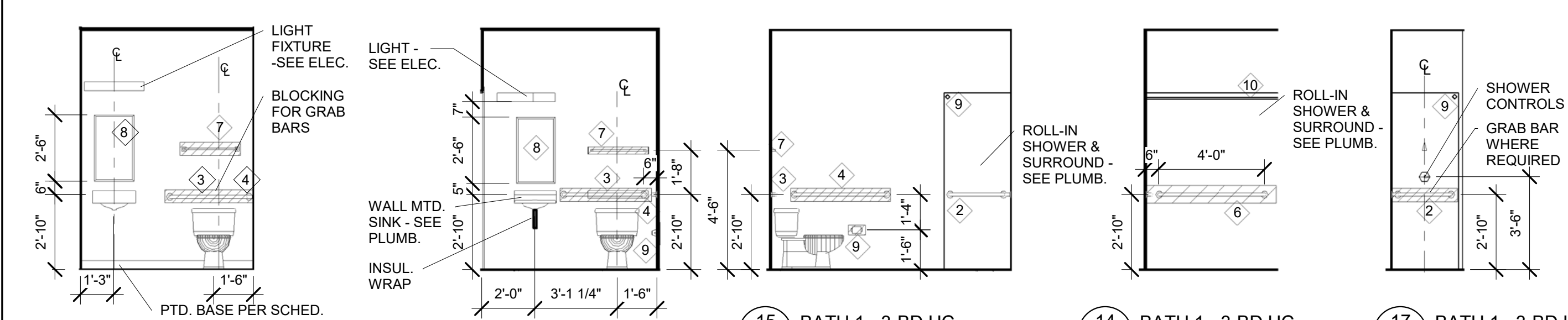
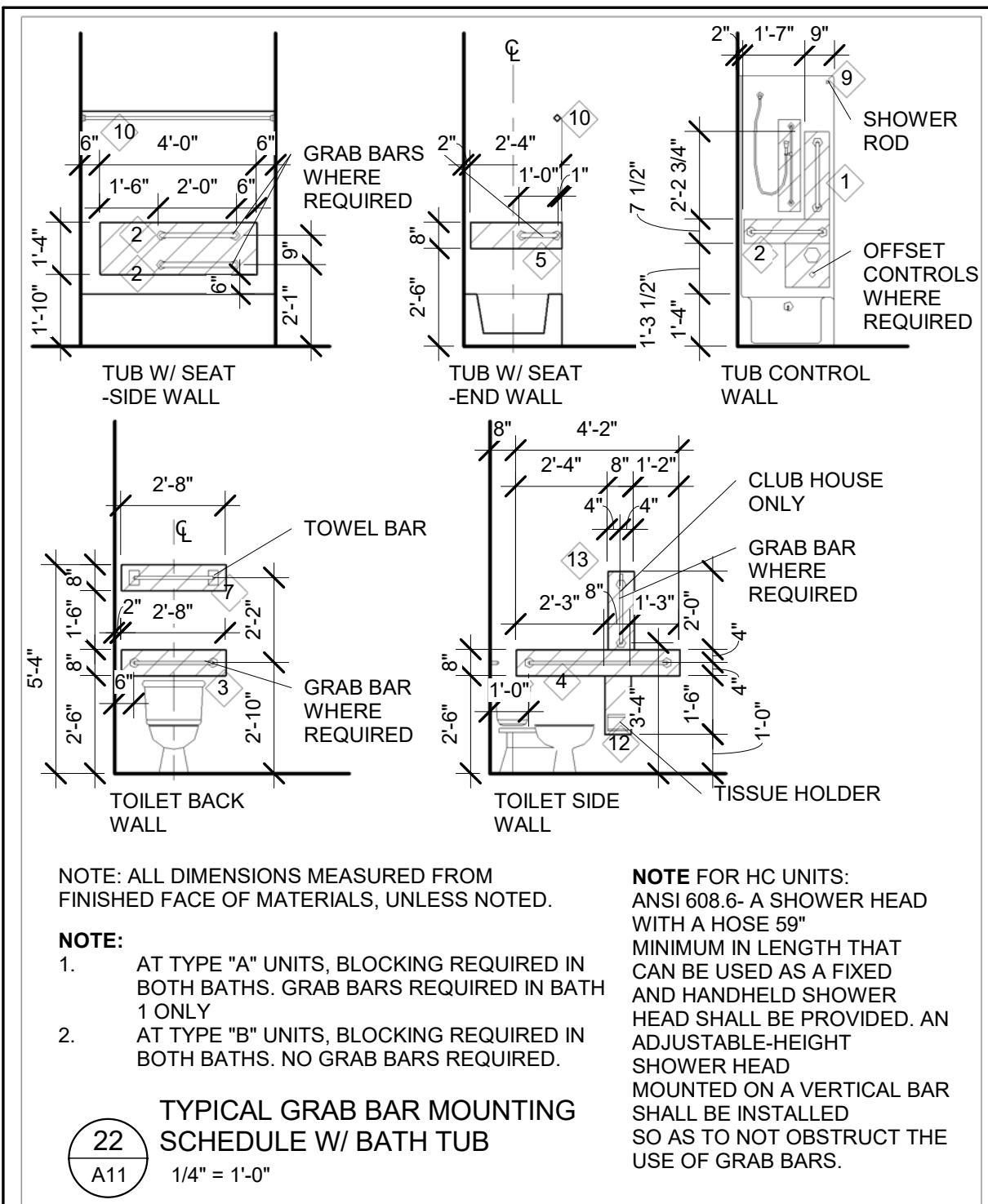
A	ENERGY STAR REFRIGERATOR	GIE18C7H
B	ENERGY STAR REF (HC)	GIE18ETH
C	ENERGY STAR RECIRC. HOOD (HC)	JN327R
D	MICROW. OVEN - COUNTERTOP - OVER-THE-RANGE	JNM3163DJ
E	ENERGY STAR DISHWASHER	GSD3300K
F	ENERGY STAR DISHWASHER (HC)	GDT255SGL
G	RANGE	JBS1600M
H	RANGE (HC SELF-CLEANING)	JBS4600M

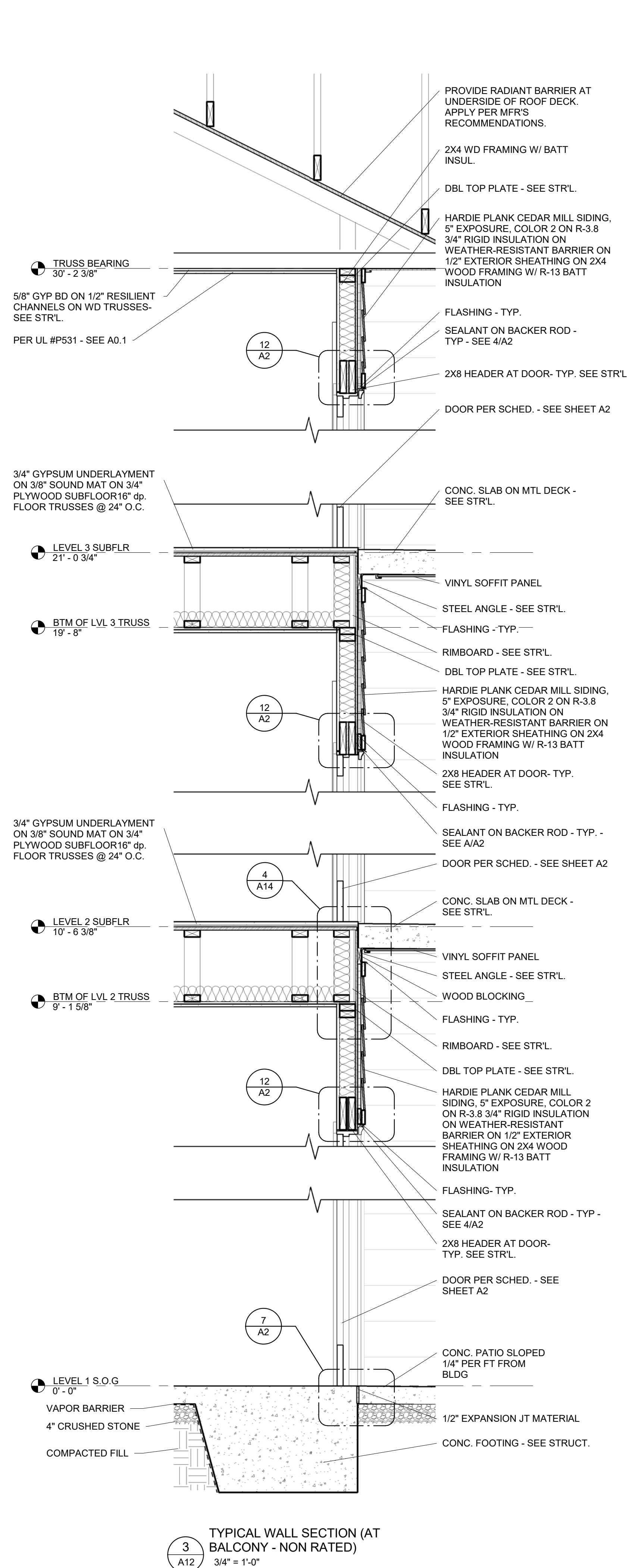
ANY SUBSTITUTIONS FOR THE PRODUCTS LABELED 'ENERGY STAR' ABOVE WILL NOT BE ACCEPTED IF NOT 'ENERGY STAR' QUALIFIED

TOILET ACCESSORIES SCHEDULE - RESIDENTIAL

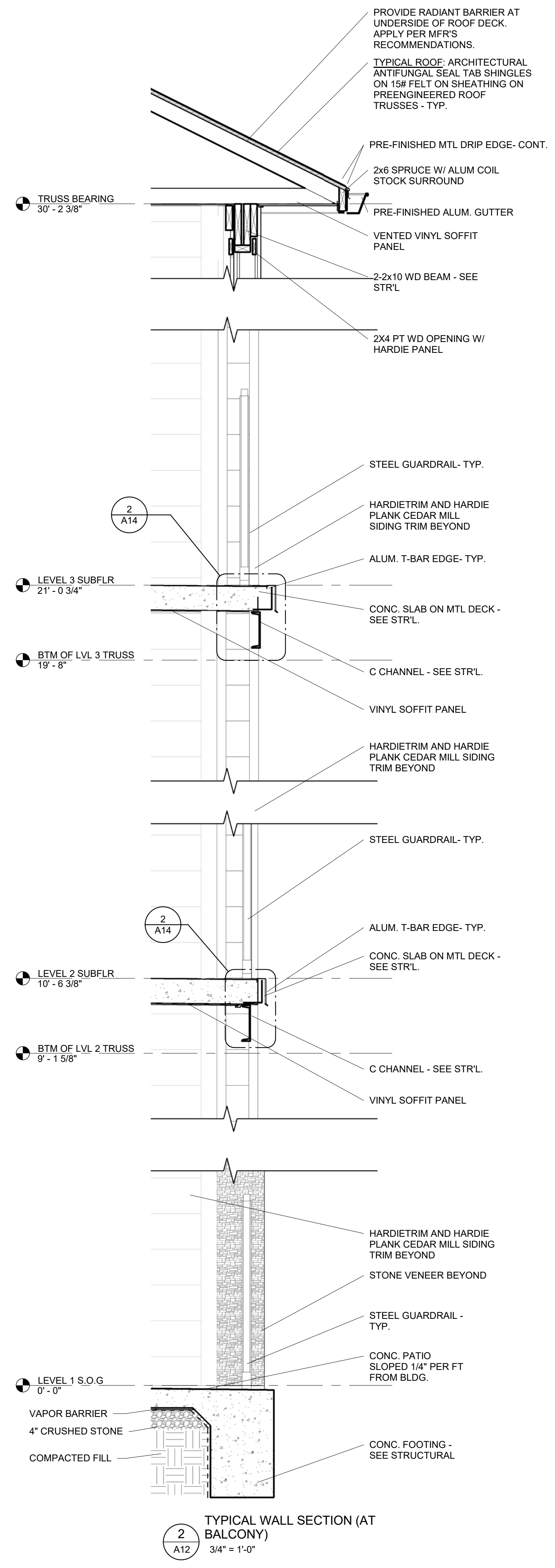
MARK	DESCRIPTION	EQUAL TO	MOUNTING HEIGHT - TYP
1	18" GRAB BAR	PAMEX #BGBSS-1218C	58" AFF
2	24" GRAB BAR	PAMEX #BGBSS-1224C	24" / 34" AFF
3	36" GRAB BAR	PAMEX #BGBSS-1236C	34" AFF
4	42" GRAB BAR	PAMEX #BGBSS-1242C	34" AFF
5	12" GRAB BAR	PAMEX #BGBSS-1212C	34" AFF
6	48" GRAB BAR	PAMEX #BGBSS-1248C	34" AFF
7	24" TOWEL BAR	PAMEX #BE2-15824	54" AFF
8	MIRROR	BOBRICK #B-106X1830	SEE ELEV
9	TISSUE DISPENSER	PAMEX #BE2-41	20" AFF
10	CURTAIN ROD	PAMEX #BSR-511	78" AFF
			12 3/4" AFF

* SEE ELEVATIONS FOR DIFFERENT MOUNTING HEIGHTS
 NOTE: PROVIDE GRAB BARS IN TYPE 'A' UNIT BATH 1 ONLY

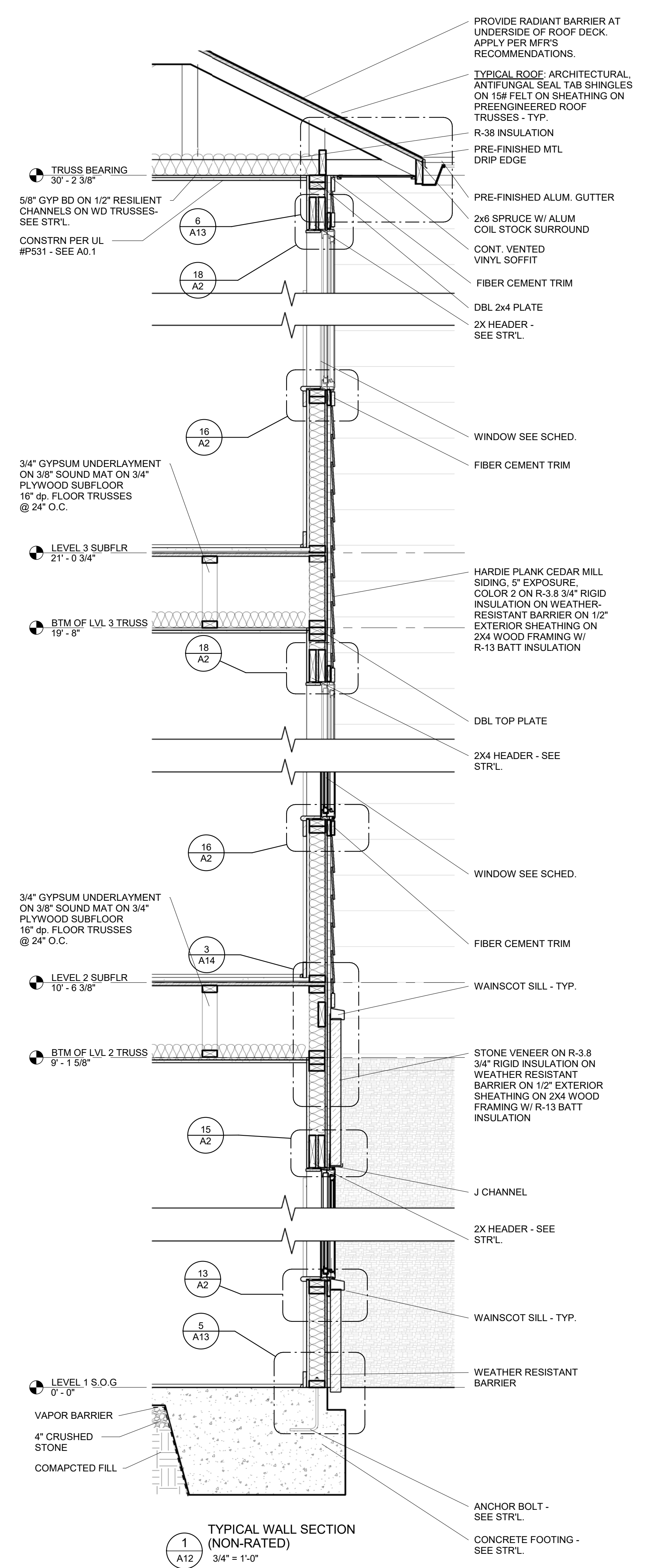




3
A12
TYPICAL WALL SECTION (AT BALCONY - NON RATED)
3/4" = 1'-0"



2
A12
TYPICAL WALL SECTION (AT BALCONY)
3/4" = 1'-0"



1
A12
TYPICAL WALL SECTION (NON-RATED)
3/4" = 1'-0"



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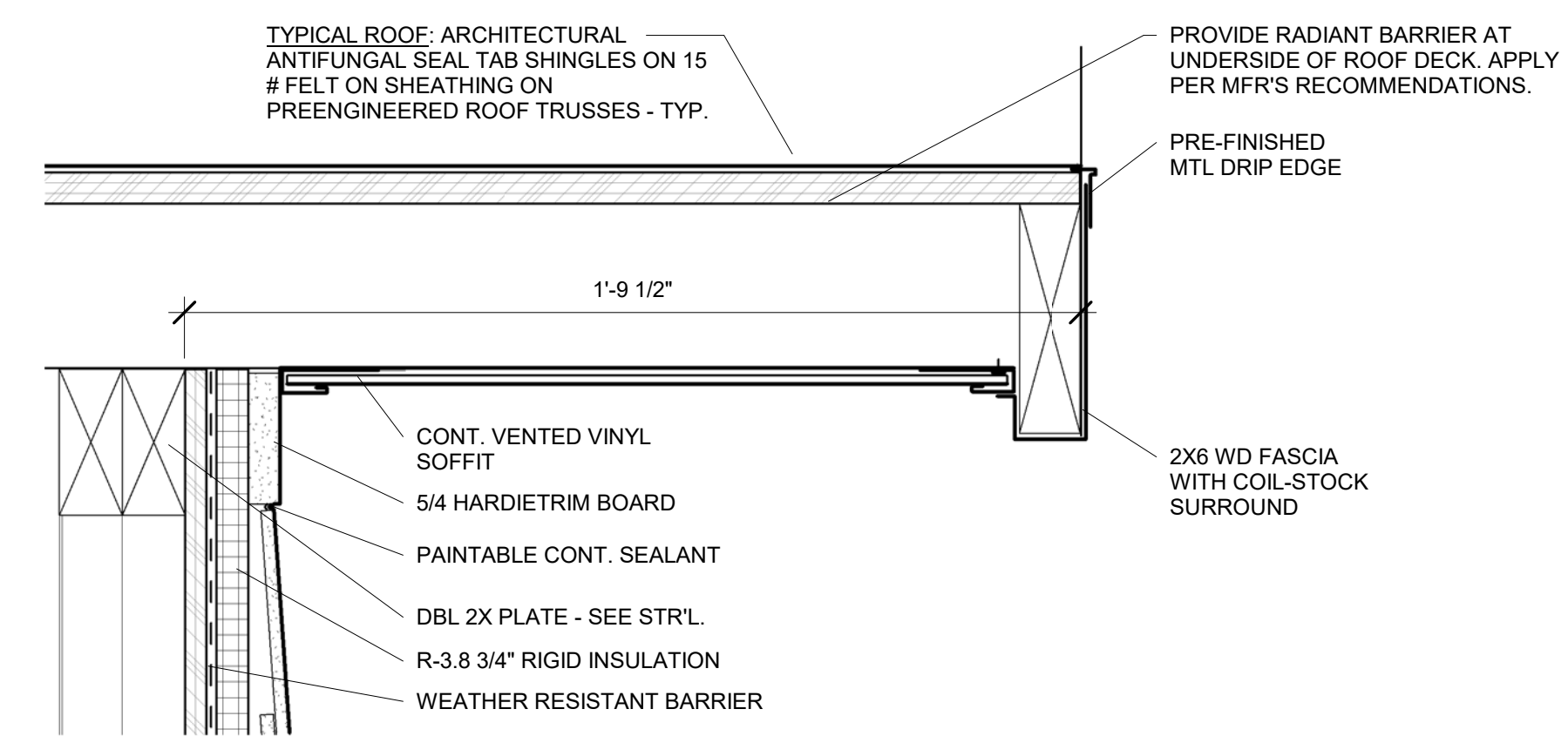
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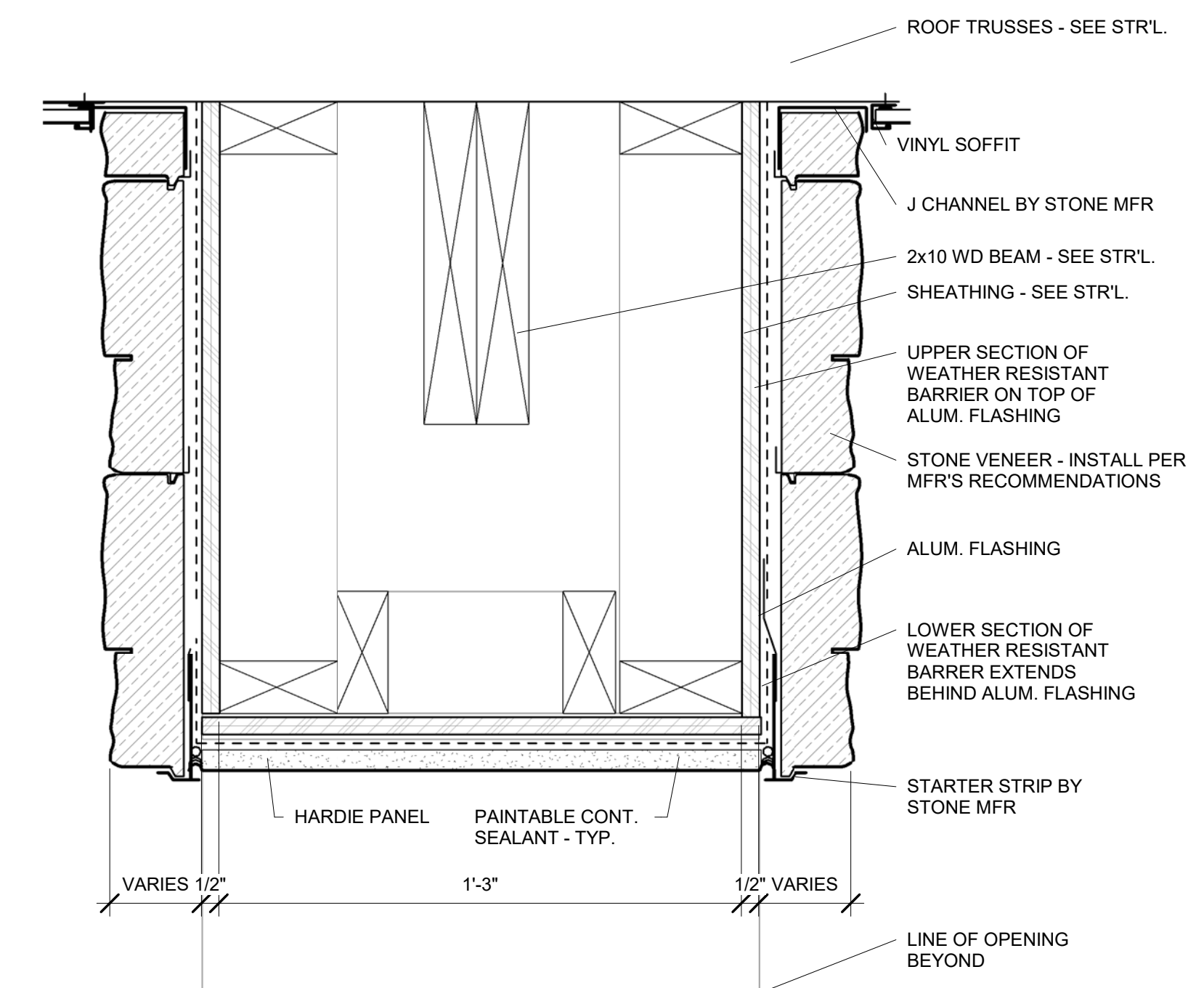
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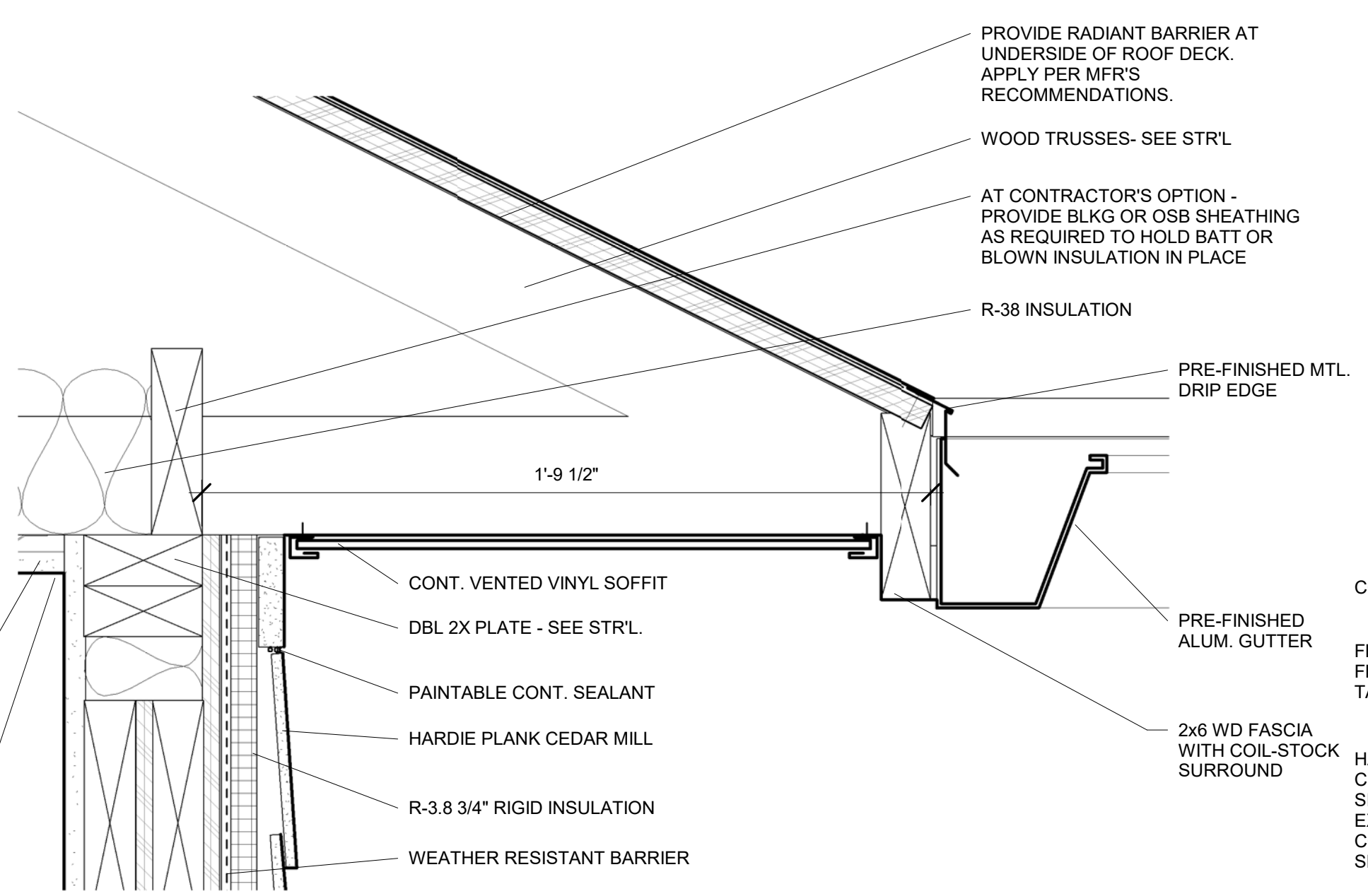
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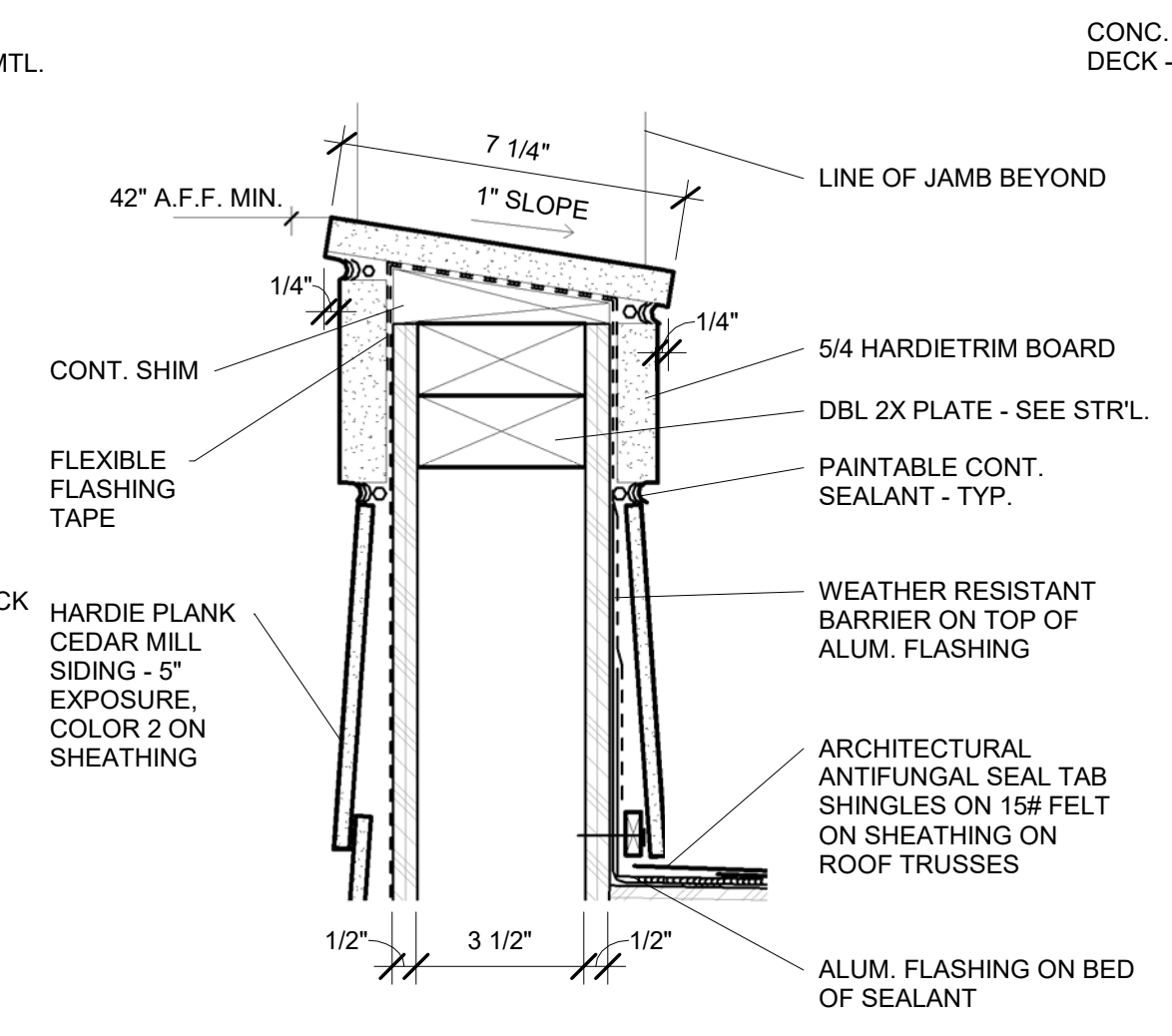
7 ROOF EAVE
A13 3" = 1'-0"



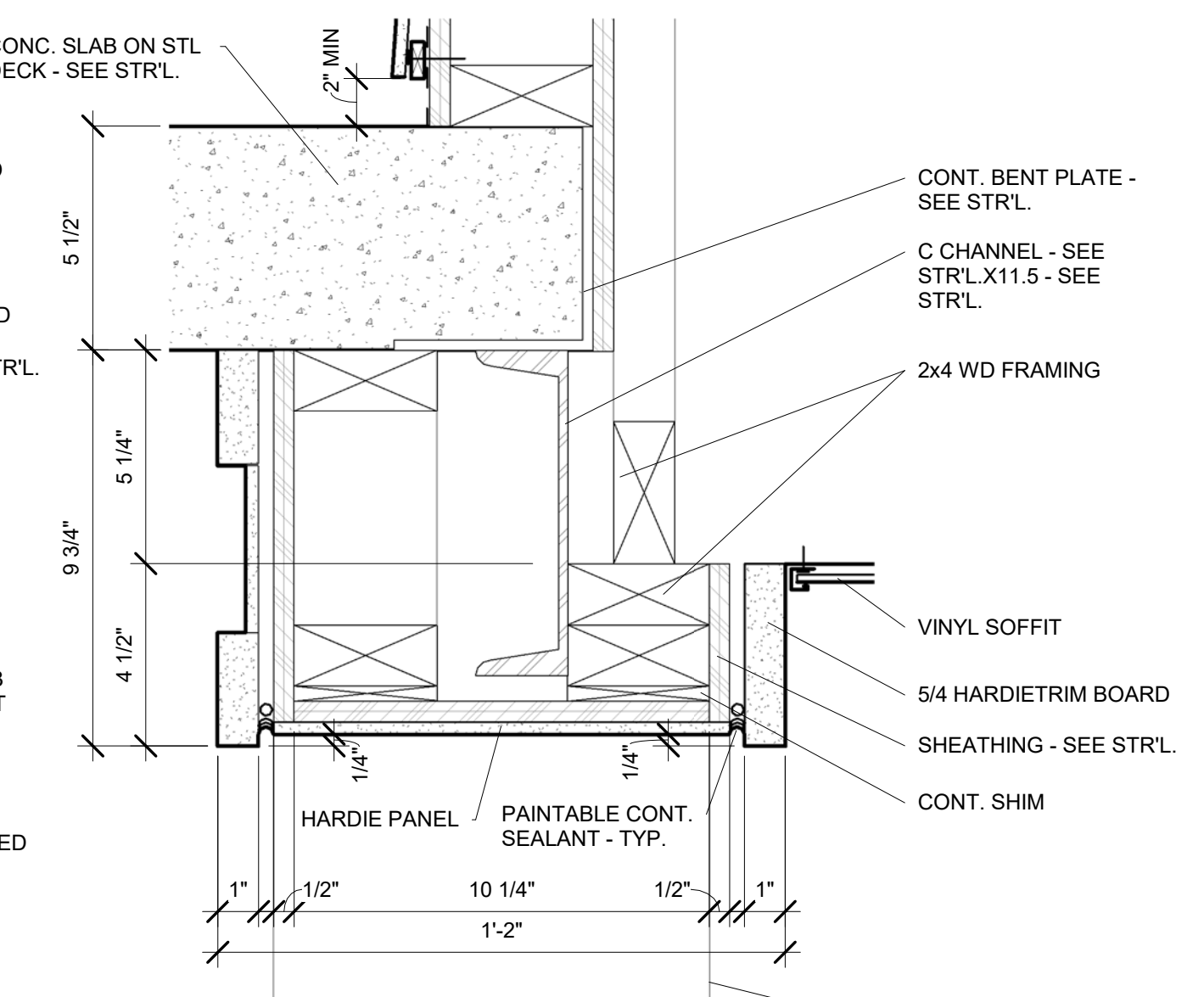
4 BREEZEWAY DETAIL @ ENTRANCE CANOPY
A13 3" = 1'-0"



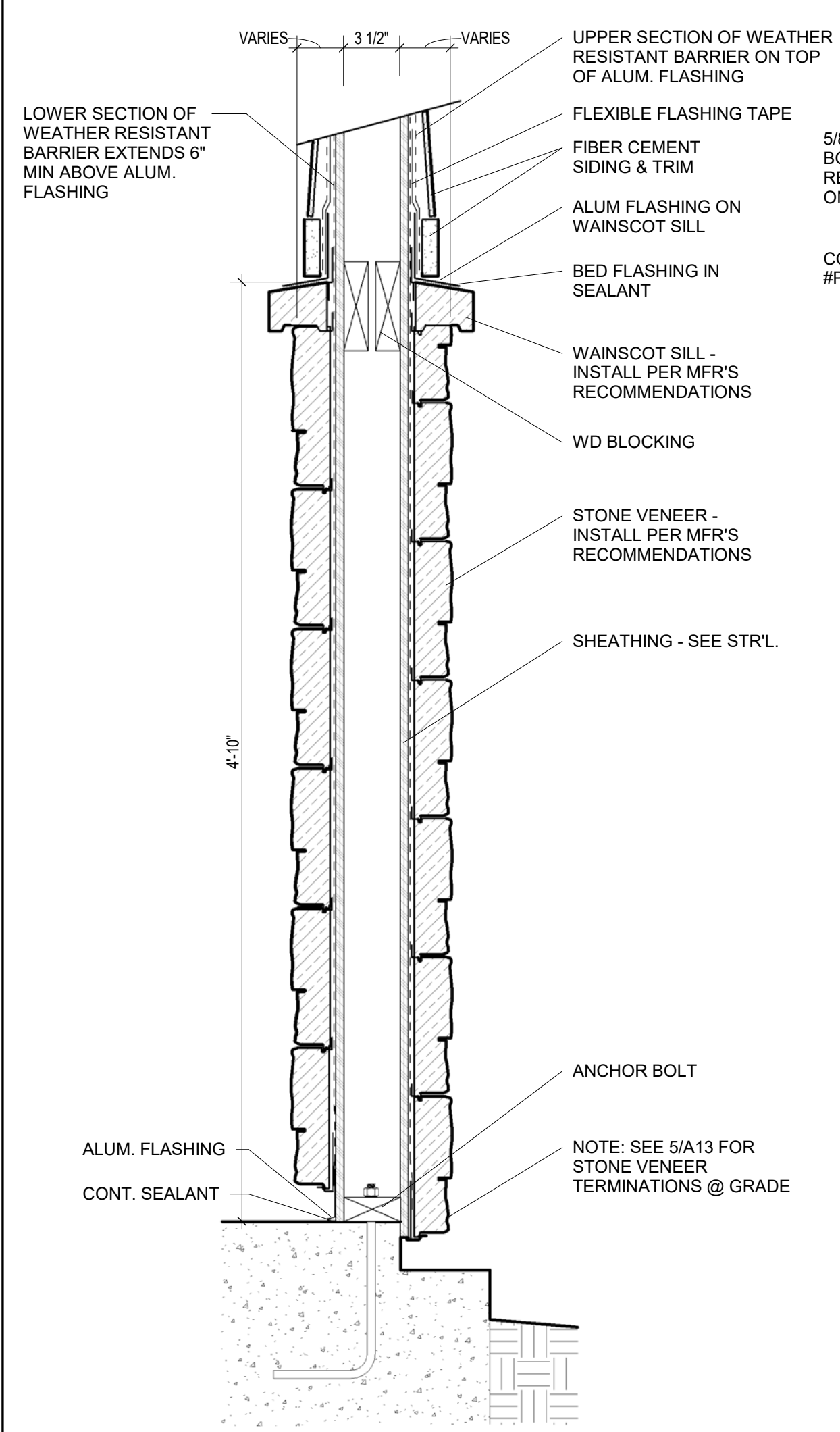
6 TYPICAL EAVE DETAIL @ SIDING
A13 3" = 1'-0"



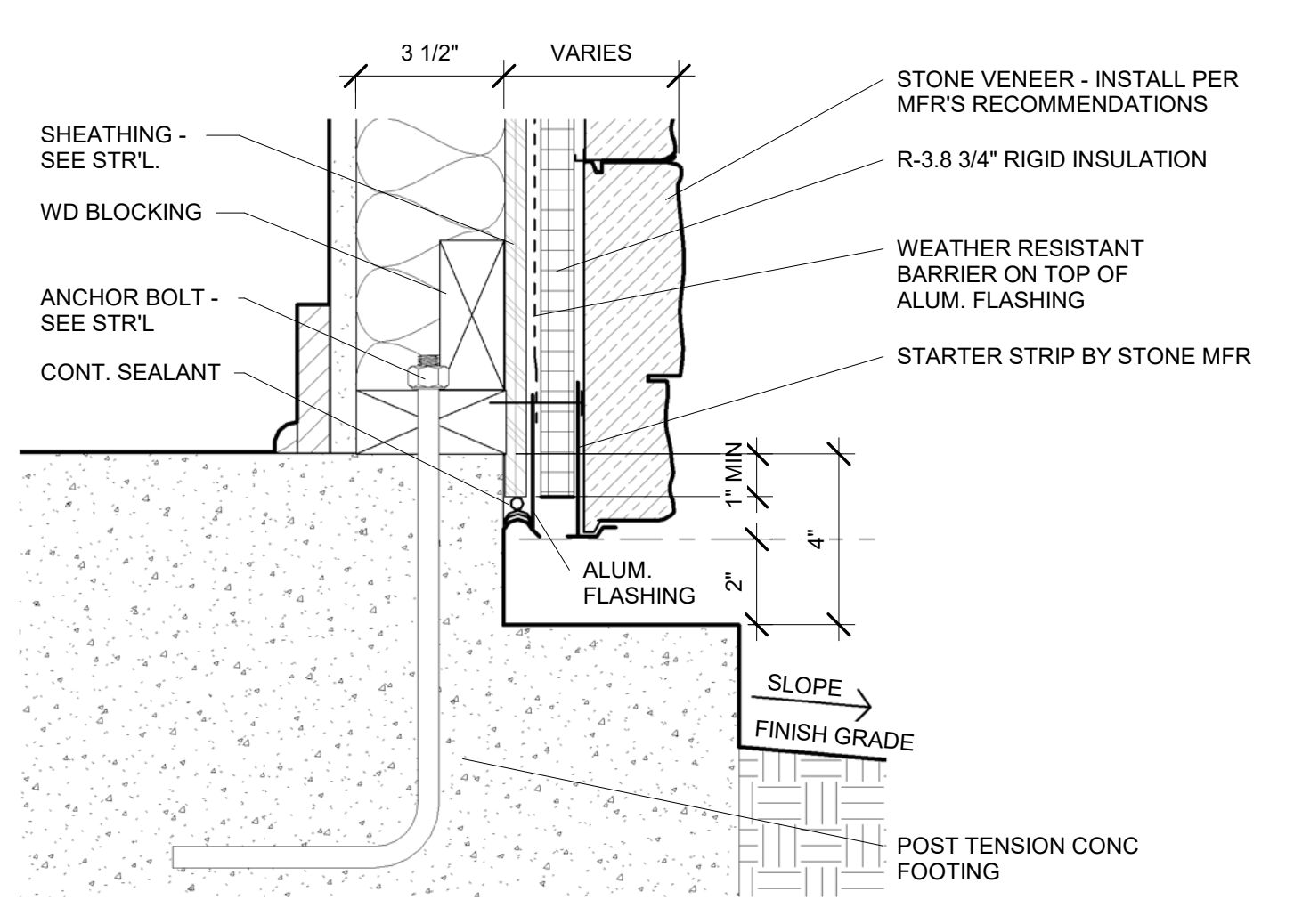
3 COPING DETAIL @ BREEZEWAY GUARD
A13 3" = 1'-0"



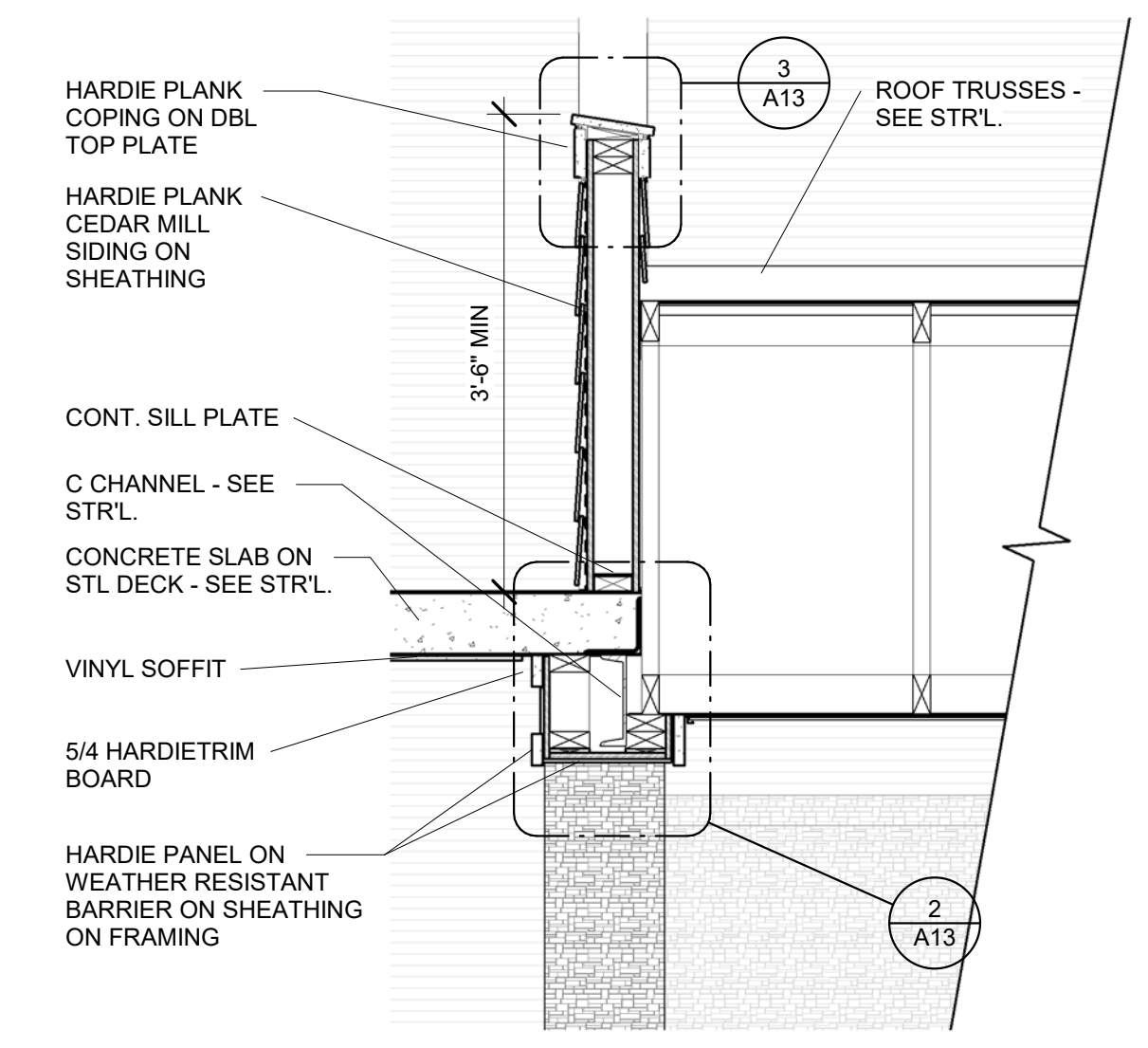
2 BREEZEWAY DETAIL @ OPENING
A13 3" = 1'-0"



8 STONE VENEER @ PATIO
A13 1 1/2" = 1'-0"



5 TYPICAL LEDGE DETAIL AT STONE VENEER
A13 3" = 1'-0"



1 SECTION @ BREEZEWAY ENTRY
A13 3/4" = 1'-0"

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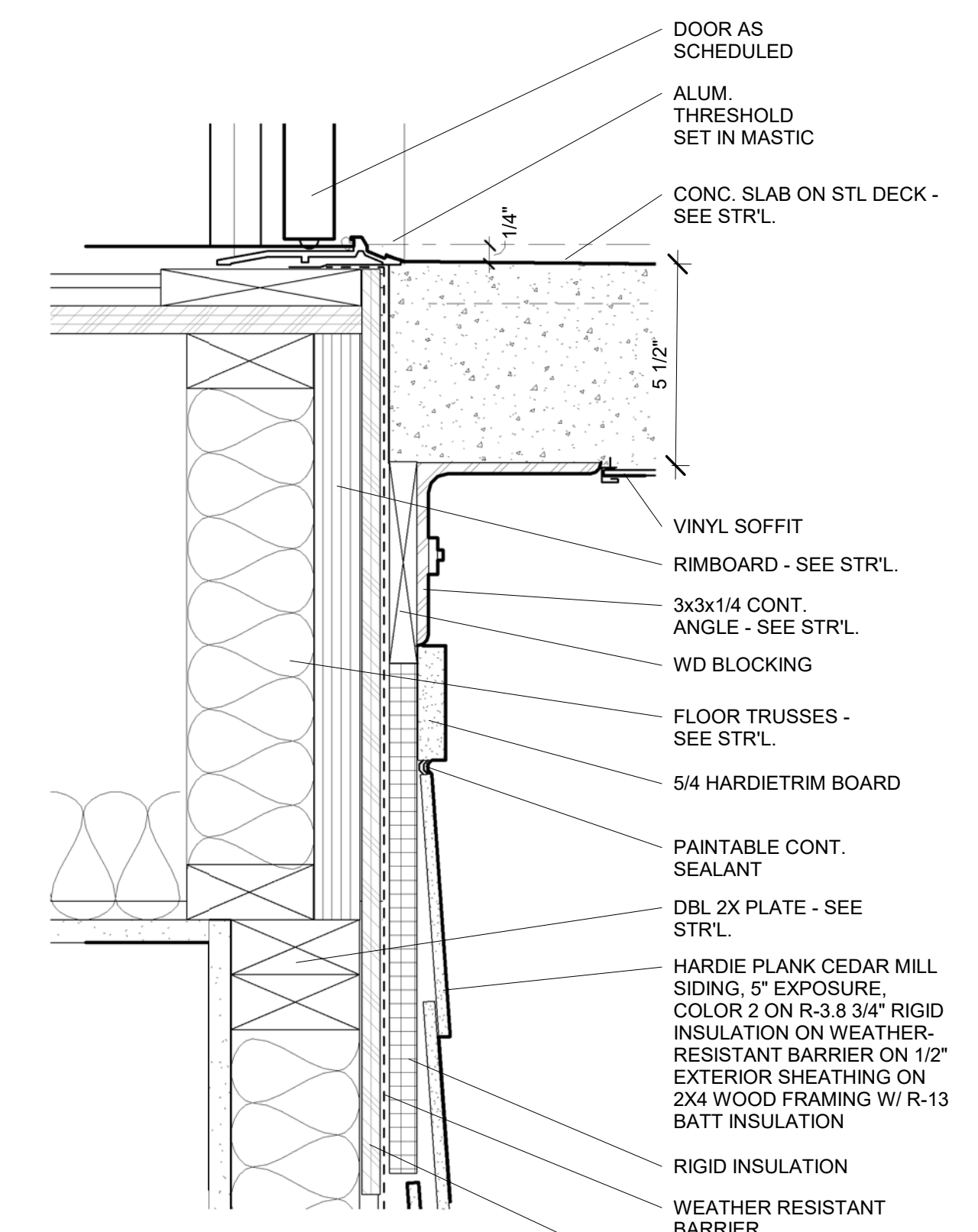
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SHEET NUMBER A13

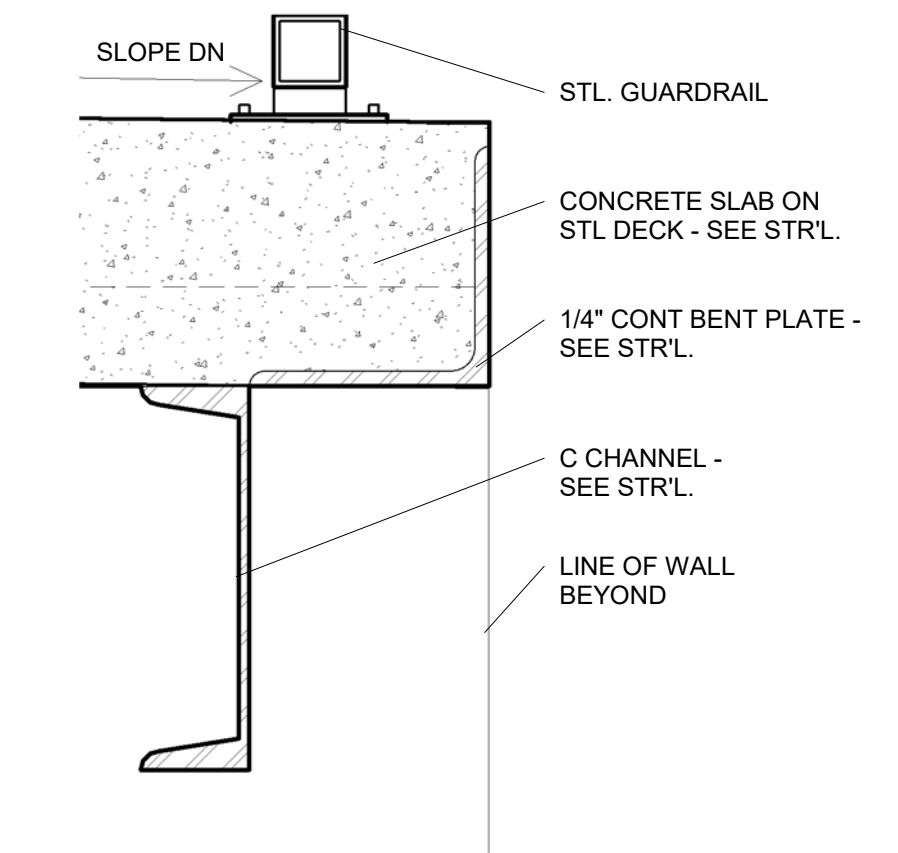
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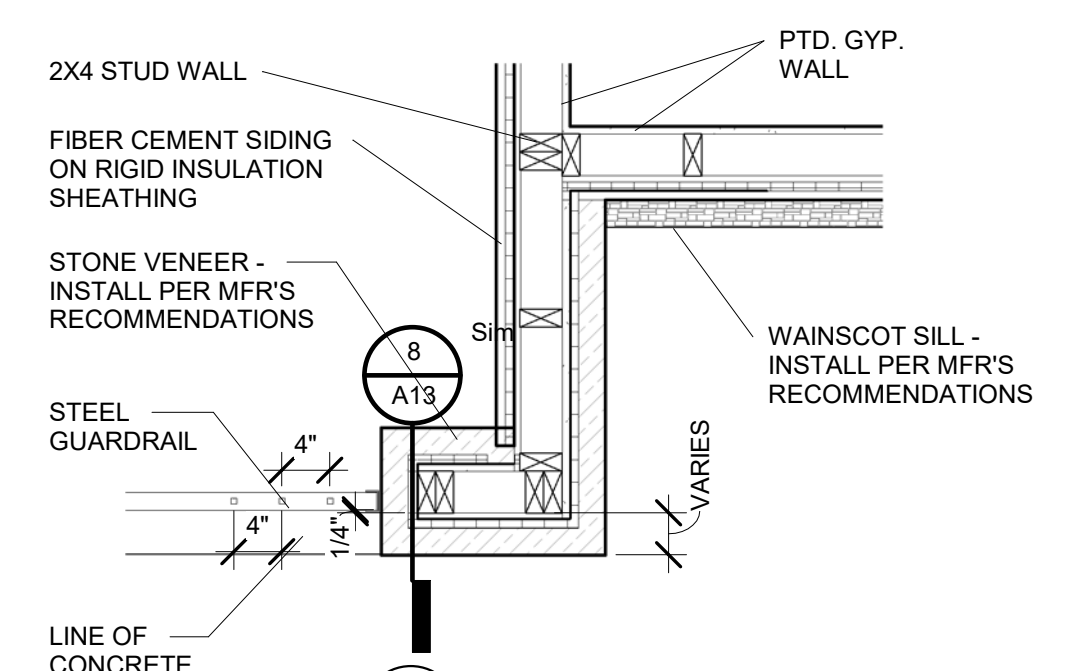
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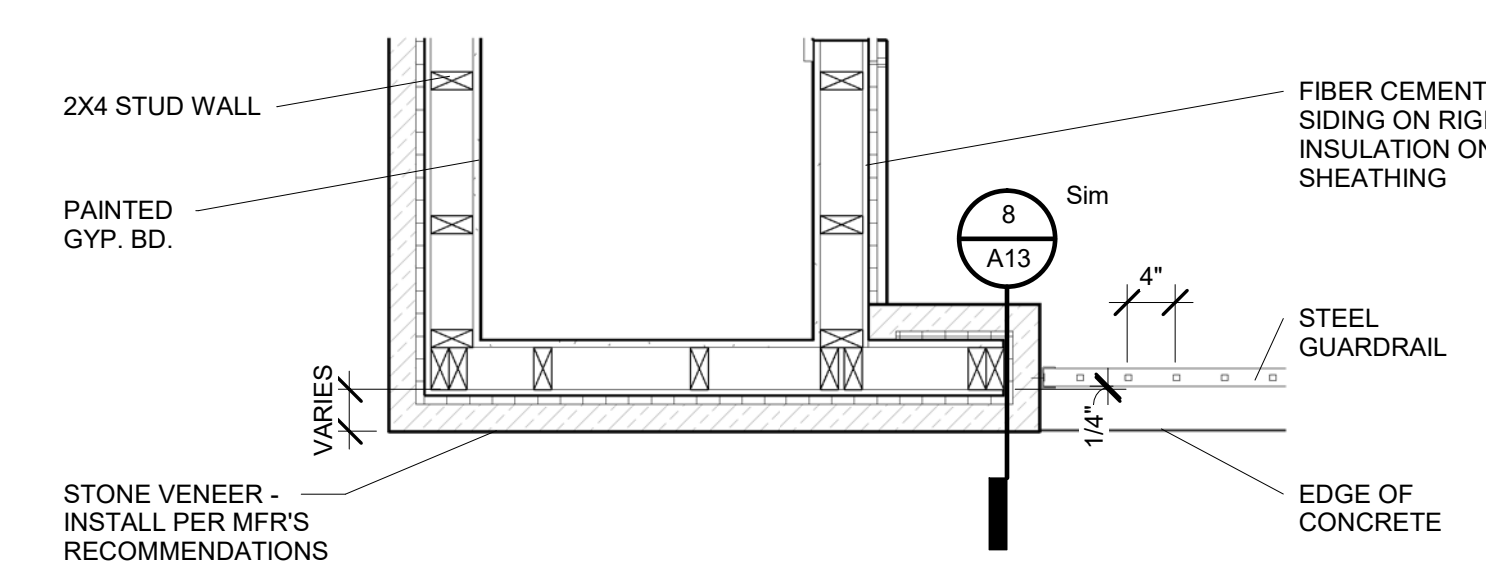
4 BALCONY DETAIL @ SIDING
3\"/>



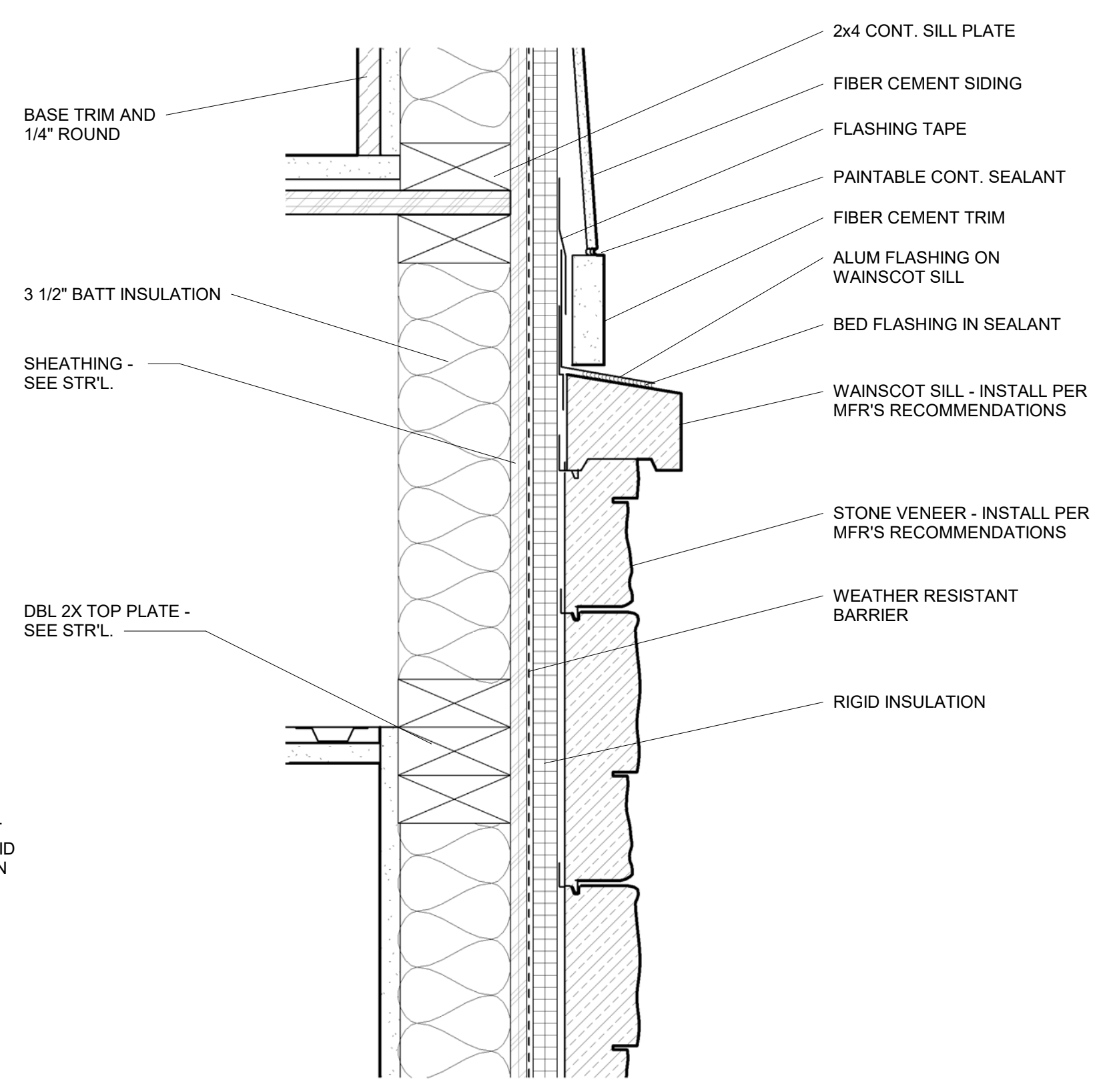
2 EDGE DETAIL @ BALCONY
3\"/>



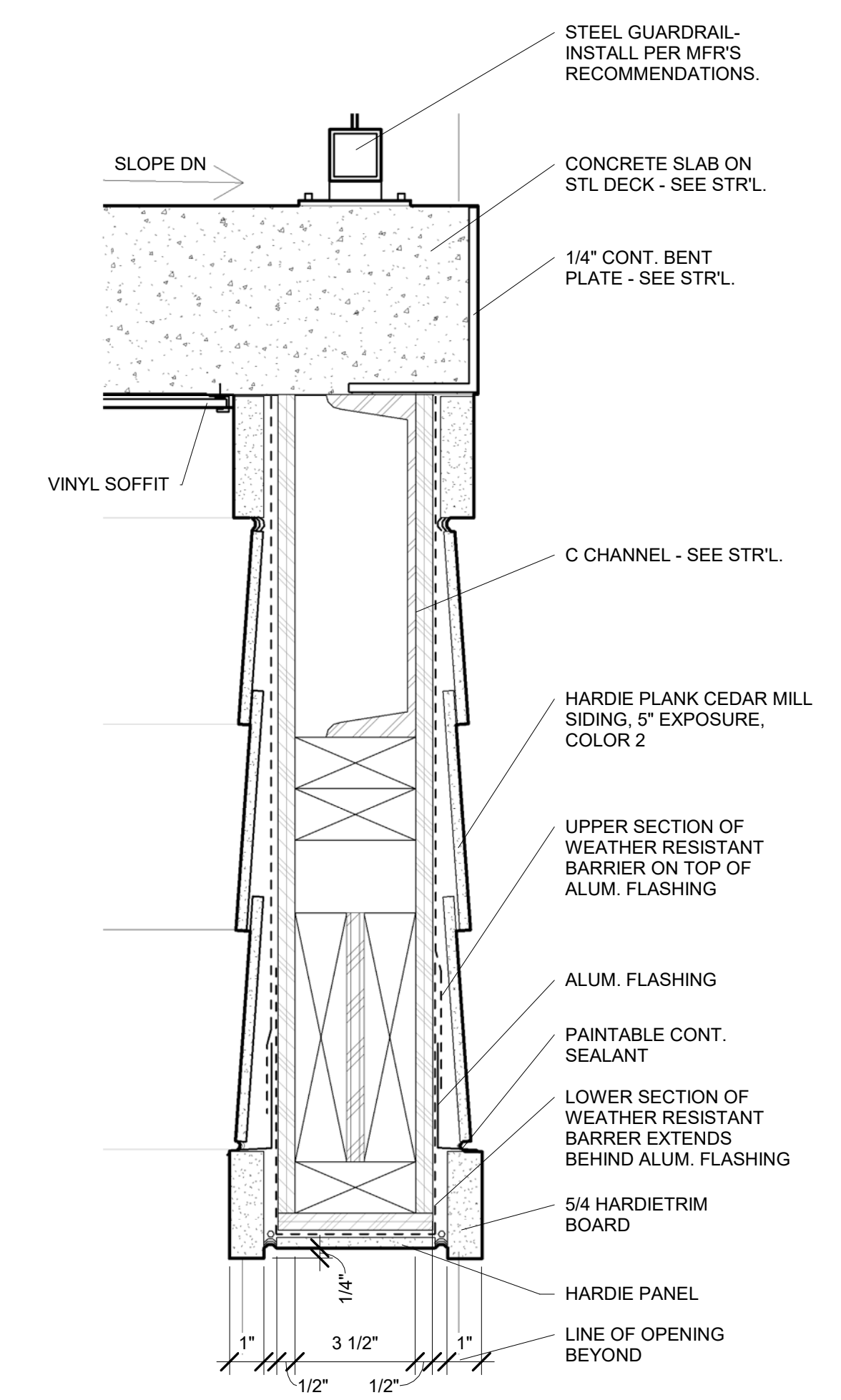
6 GUARDRAIL DETAIL
3/4\"/>



5 GUARDRAIL DETAIL
3/4\"/>



3 WAINSCOT SILL DETAIL
3\"/>



1 EDGE DETAIL @ BREEZEWAY
3\"/>

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SHEET NUMBER

A14

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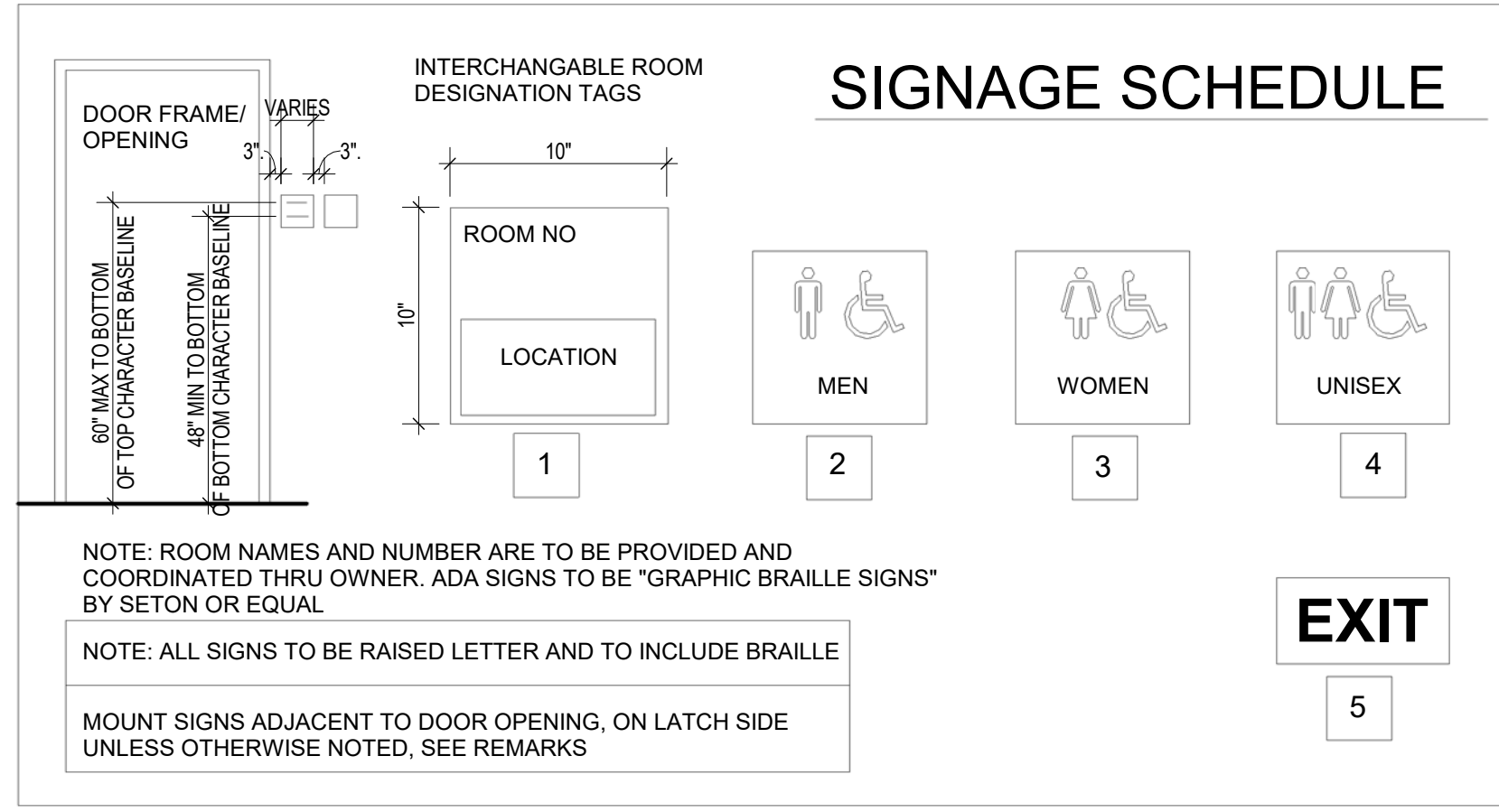


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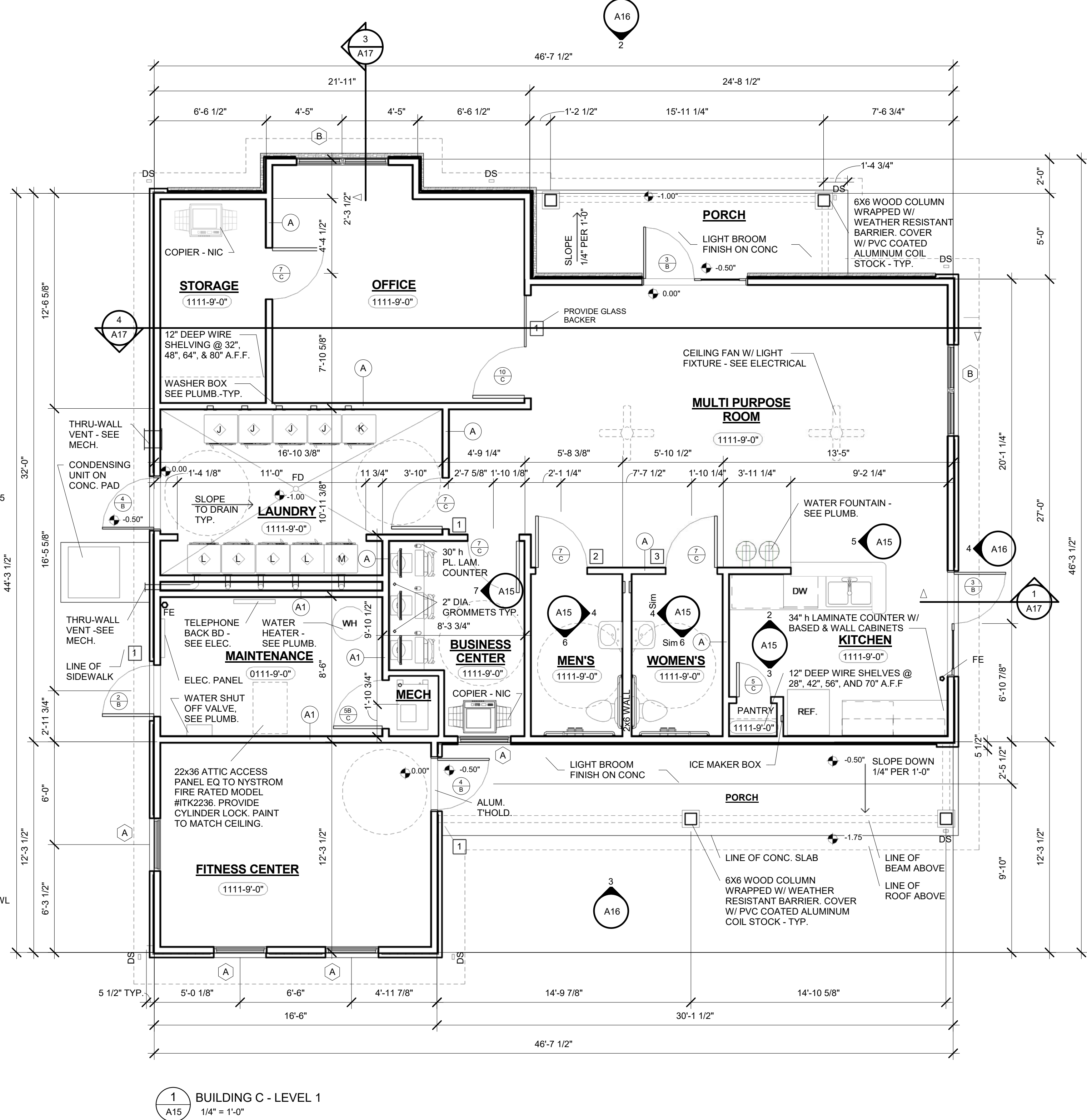
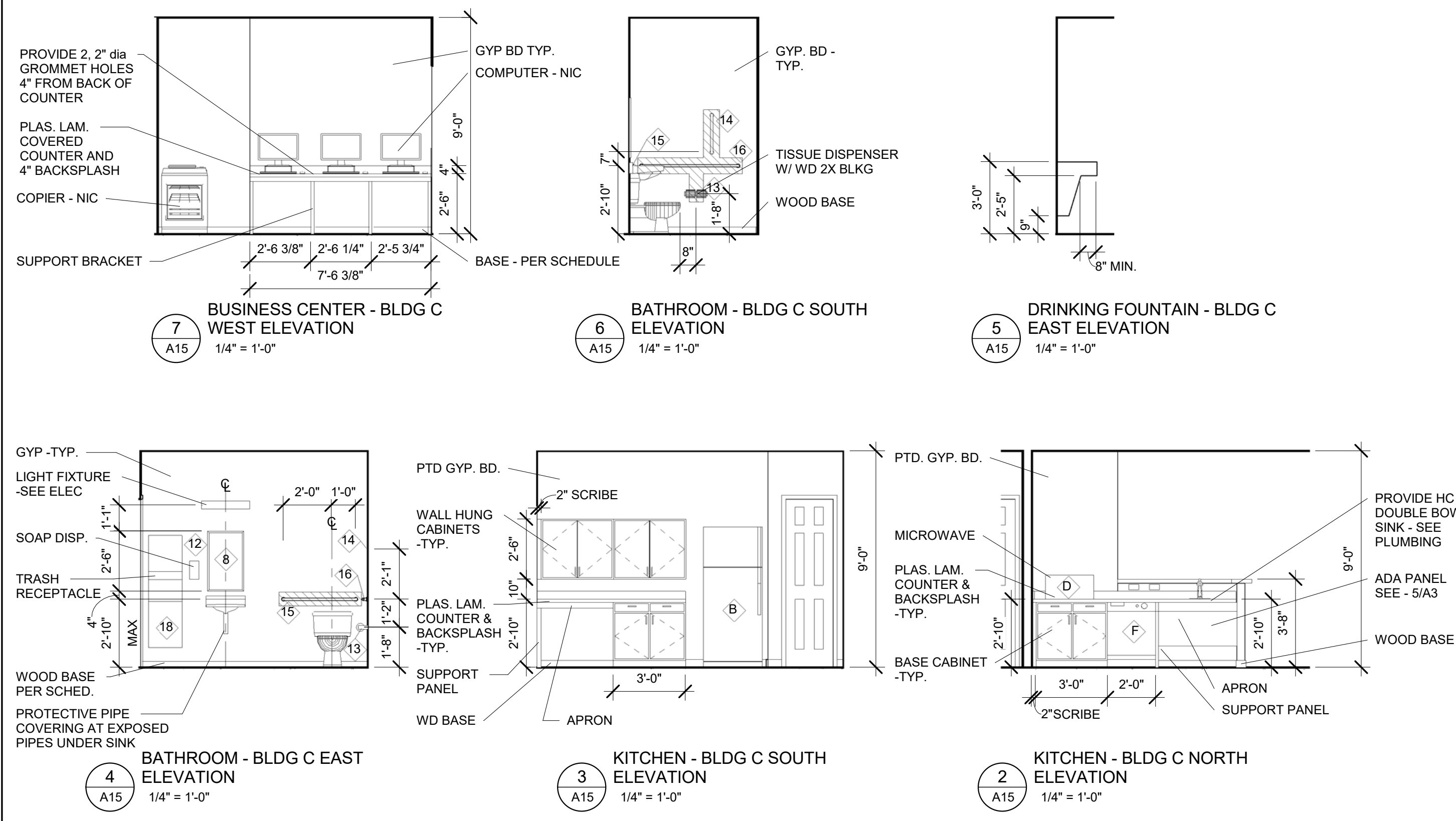
MARK	DESCRIPTION	EQUAL TO	MOUNTING HEIGHT - TYP.
8	MIRROR	BOBRICK #B-166x1830	SEE ELEV
11	FOLDED TOWEL DISP	AJW #U180	SEE ELEV
12	SOAP DISPENSER	AJW #U124	SEE ELEV
13	TISSUE DISPENSER	AJW #U805	SEE ELEV
14	18" GRAB BAR	AJW #UG3-A	58" AFF
15	36" GRAB BAR	AJW #UG3-A	34" AFF
16	42" GRAB BAR	AJW #UG3-A	34" AFF
17	24" GRAB BAR	AJW #UG3-A	54" AFF
18	TRASH RECEPTACLE/TOWEL DISPENSER	BOBRICK B-3942	54" AFF

MARK	DESCRIPTION	EQUAL TO
B	ENERGY STAR REF (HC)	GIE1BETH
D	MICROW. OVEN - COUNTERTOP - OVER-THE-RANGE	JNM3163DJ
F	ENERGY STAR DISHWASHER (HC)	GDT2255SGL
W	WASHER	GTW490ACJ
K	WASHER (HC)	GTW400SCM
L	DRYER	GTX42EASJ
M	DRYER (HC)	GFD40ESCMWW

ANY SUBSTITUTIONS FOR THE PRODUCTS LABELED 'ENERGY STAR' ABOVE WILL NOT BE ACCEPTED IF NOT 'ENERGY STAR' QUALIFIED



8 SIGNAGE SCHEDULE
1 1/2" = 1'-0"



- LEGEND**
- WALL/PARTITION TYPE - SEE PARTITION SCHEDULE SHEET A2
 - DOOR & FRAME MARK - SEE DOOR SCHEDULE SHEET A2
 - RECHARGEABLE FIRE EXTINGUISHER AND CABINET
 - RECHARGEABLE FIRE EXTINGUISHER
 - FLOOR DRAIN - SEE PLUMBING
 - THERMOSTAT - MOUNT HEIGHT @ 48" A.F.F. ON CENTER
 - FLOOR FINISH MATERIAL TRANSITION
 - IMVB - ICE MAKER VALVE BOX
 - WMVB - WASHING MACHINE VALVE BOX
 - WATER HEATER - SEE PLBG
- FINISH SCHEDULE**
- | FLOOR | BASE | WALLS | CEILING | CEILING HEIGHT |
|-------|------|-------|---------|----------------|
| 1 | 1 | 1 | 1 | 9'-0" |
- FLOOR**
- 0 - SEALED CONCRETE (CONC)
 - 1 - VINYL PLANK
 - 2 - CARPET (CPT)
 - 3 - CERAMIC TILE (TILE)
- BASE**
- 0 - EXPOSED CONSTRUCTION
 - 1 - PAINTED WOOD
 - 2 - 4" HIGH RESILIENT
- WALLS**
- 0 - UNFINISHED GYP BD
 - 1 - PAINTED GYP BD
 - 2 - CERAMIC TILE
- CEILING**
- 0 - EXPOSED CONSTRUCTION
 - 1 - PAINTED GYP BD
 - 2 - UNFINISHED GYP BD
 - 3 - PAINTED EXT. GRADE GYP SOFFIT BOARD

- GENERAL NOTES**
- ALL DIMENSIONS ARE TO FACE OF STUD, UNLESS NOTED.
 - ALL INTERIOR ELEVATIONS, DIMENSIONS ARE TO THE FACE OF FINISH MATERIAL.
 - ALL INTERIOR PARTITIONS ARE GYPSUM BOARD ON WOOD STUDS UNLESS NOTED. SEE PARTITION SCHEDULE, A2.
 - PROVIDE PAPERLESS GYP BD AT WALLS & CEILINGS OF BATHROOMS AND LAUNDRY ROOMS, AND AT ALL WINDOW HEAD/JAMB/SILLS.
 - PROVIDE WD BLOCKING BTWN STUDS FOR MOUNTING WALL CABINETS.

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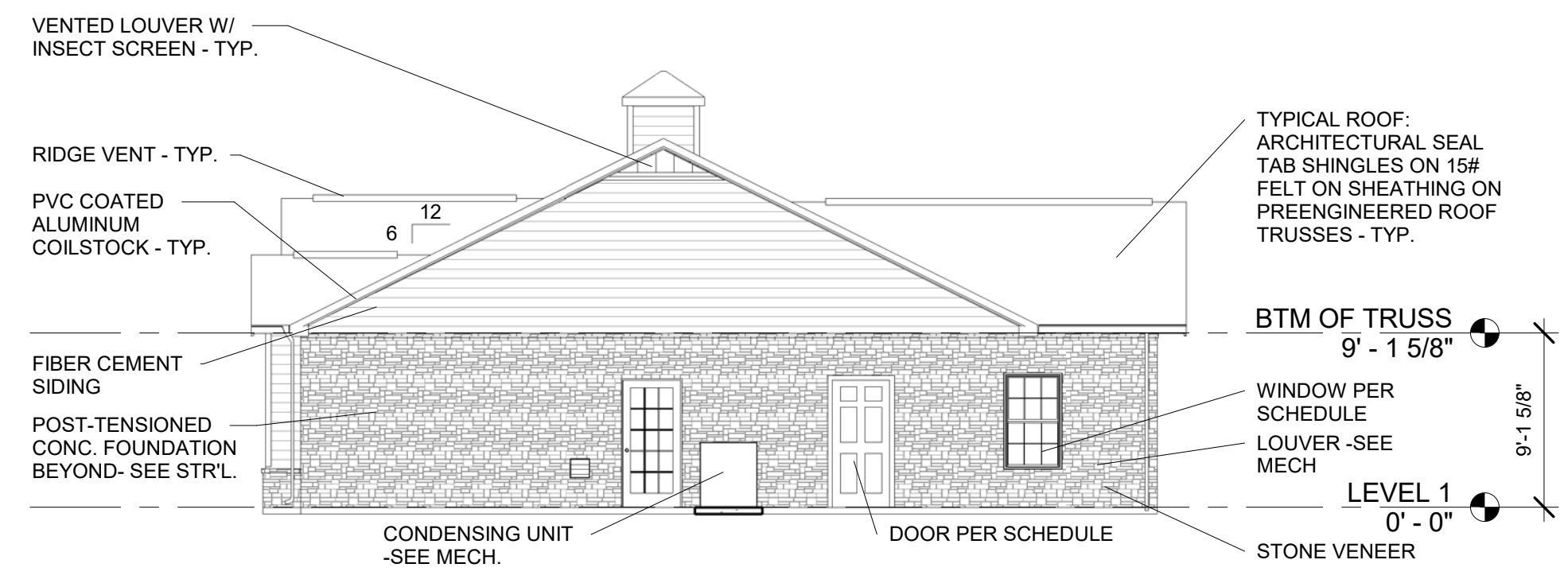
900 E Barton Ave
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SHEET NUMBER
A15

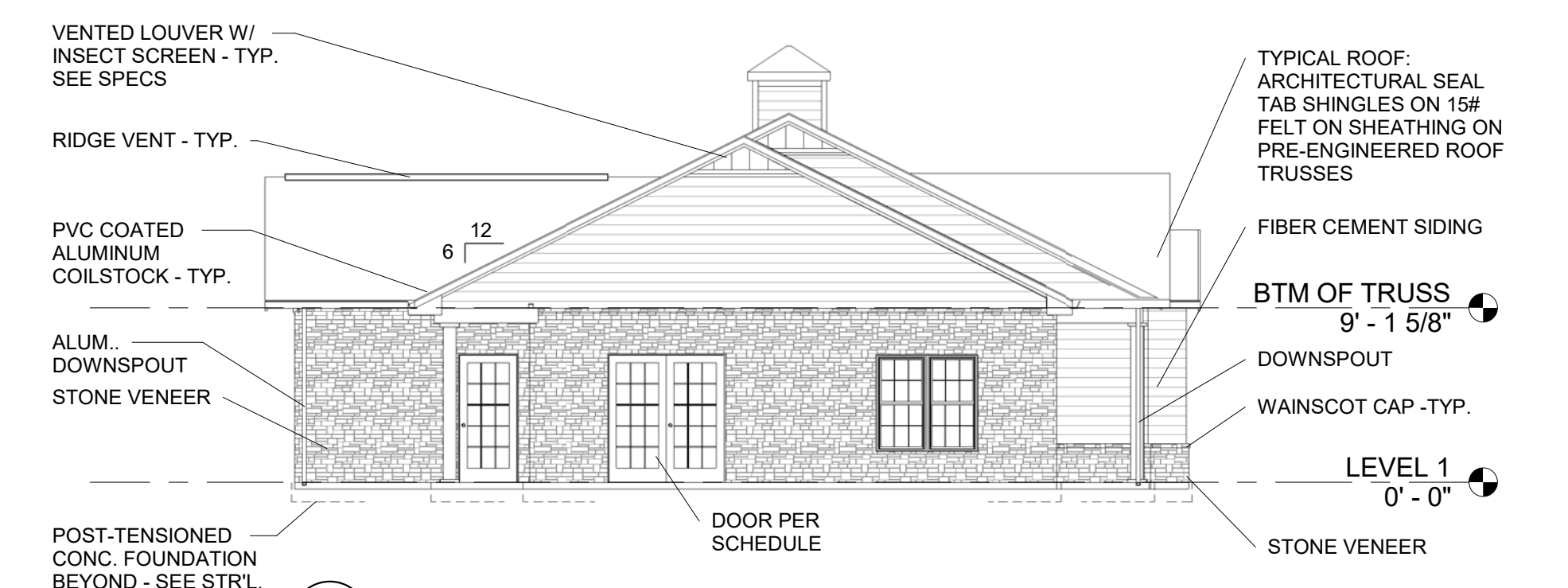
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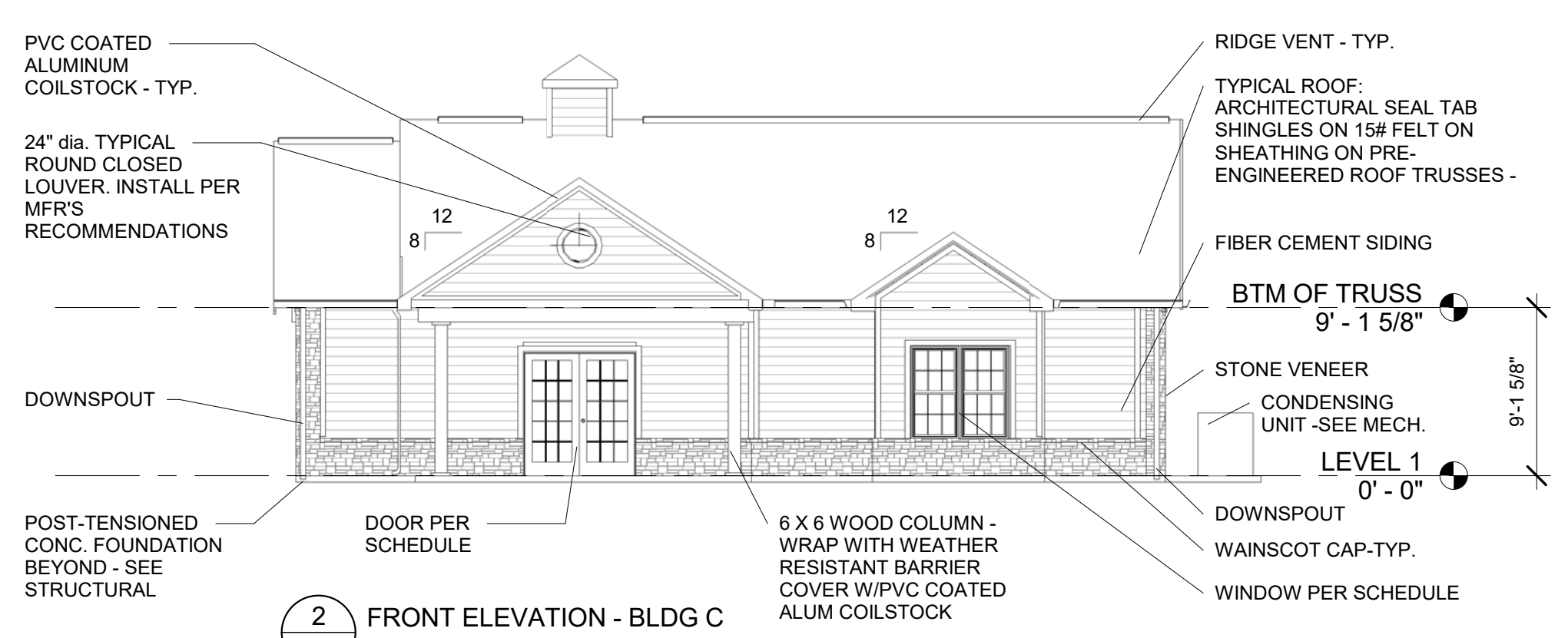
5 SIDE ELEVATION 2 - BLDG C
1/8" = 1'-0"



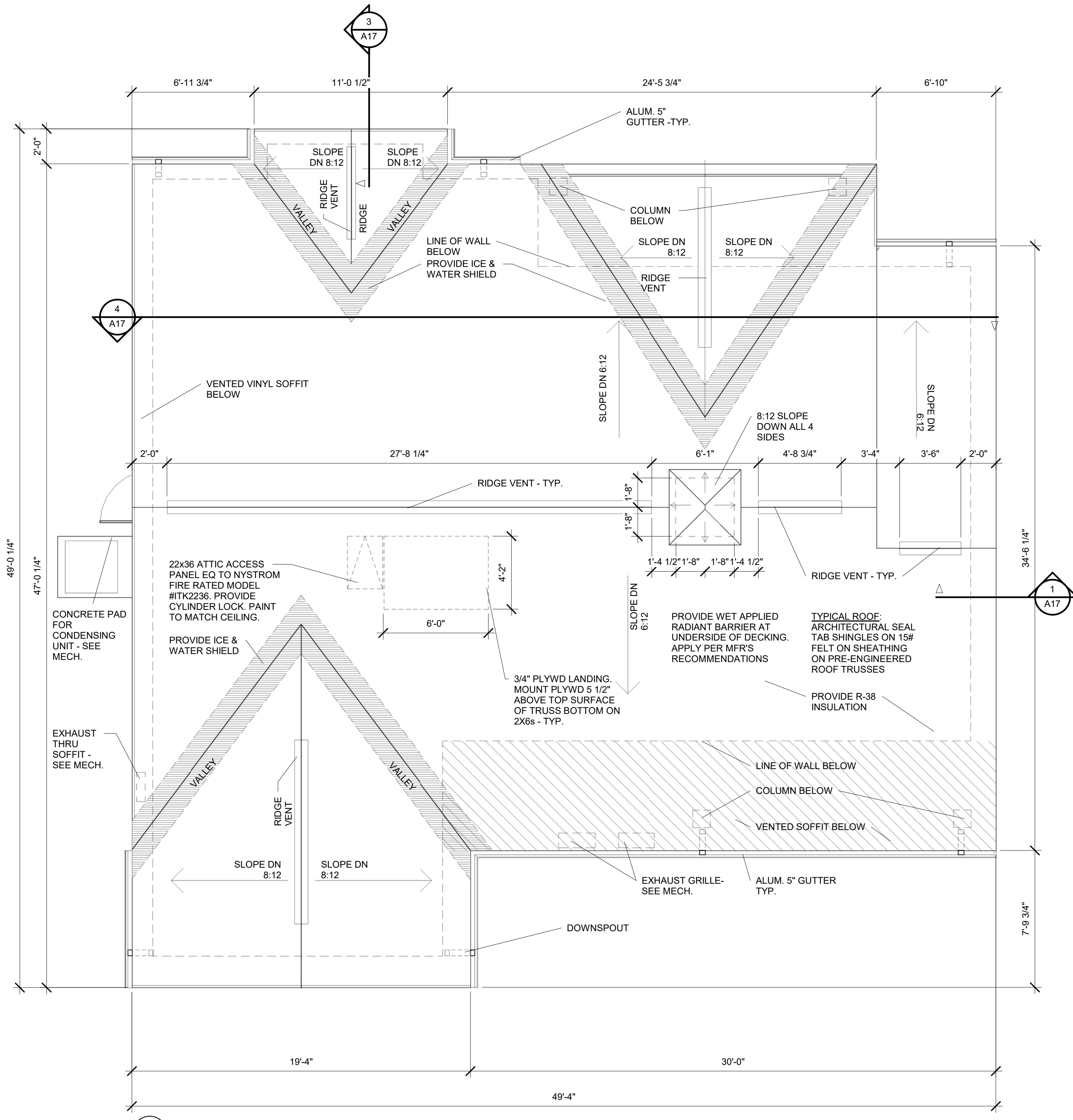
4 SIDE ELEVATION - BLDG C
1/8" = 1'-0"



3 REAR ELEVATION - BLDG C
1/8" = 1'-0"



2 FRONT ELEVATION - BLDG C
1/8" = 1'-0"



1 BUILDING C - ROOF PLAN
1/4" = 1'-0"

DATE
1 11/20/18 PERMIT SET

PROJECT NUMBER
597
PROJECT
The Park at Barton

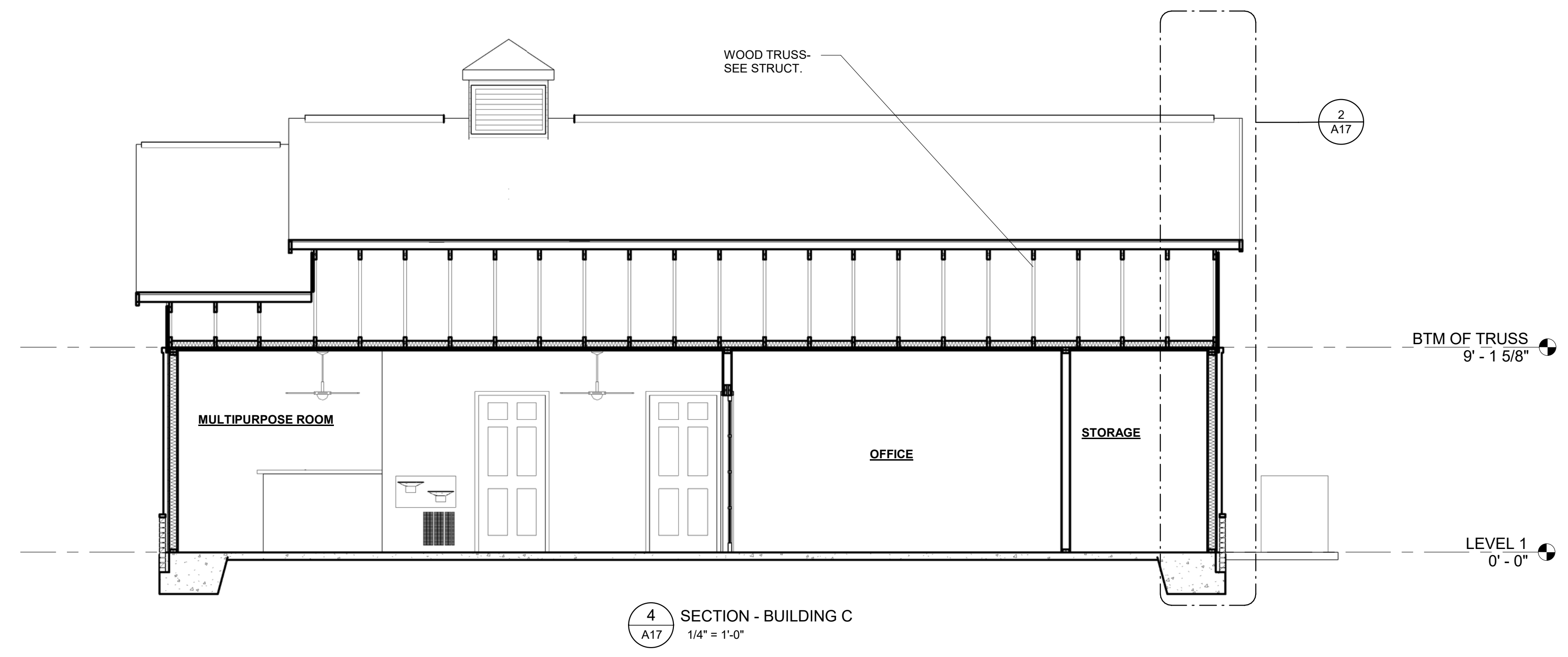
900 E Barton Ave
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SHEET NUMBER

A16

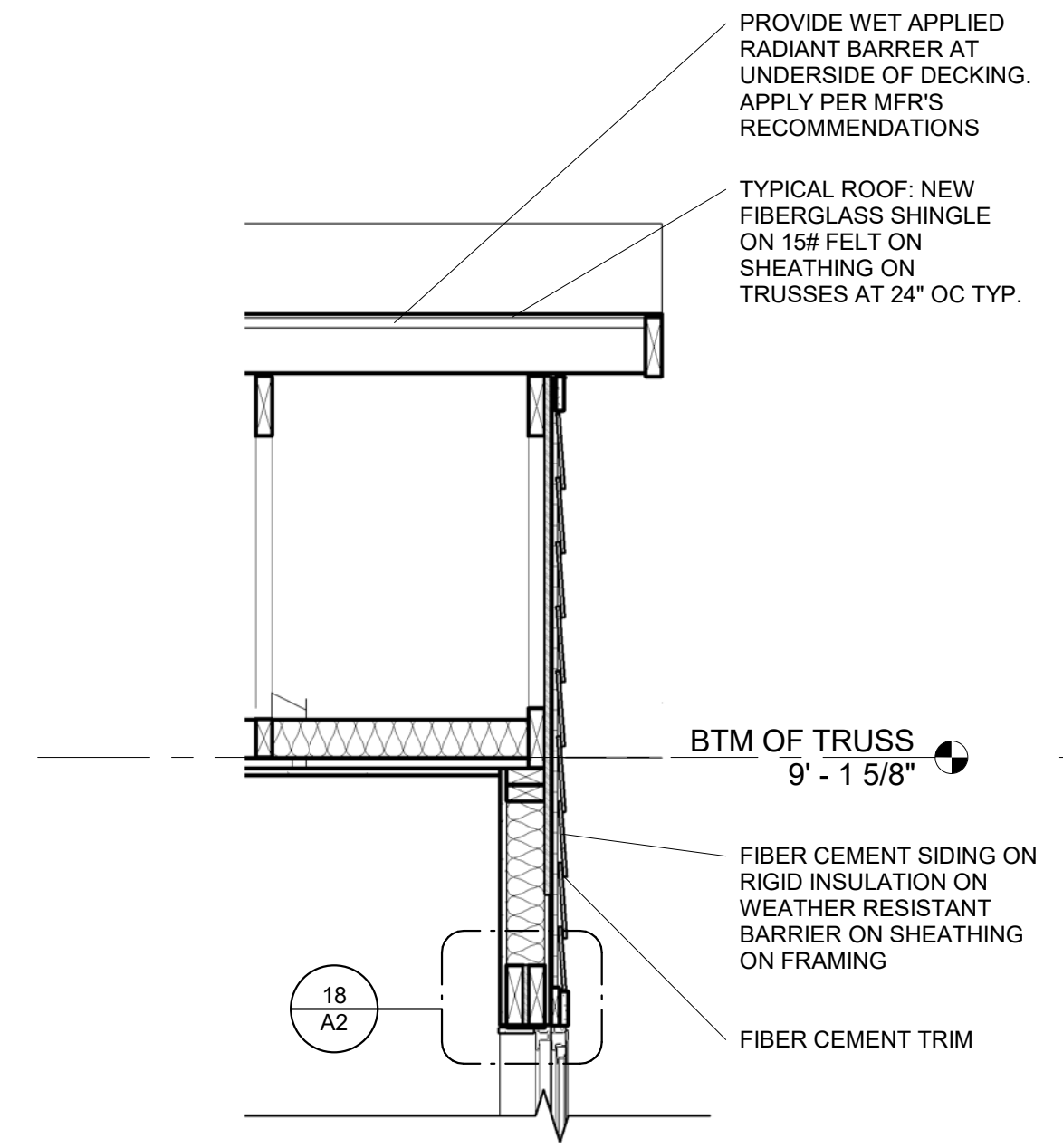
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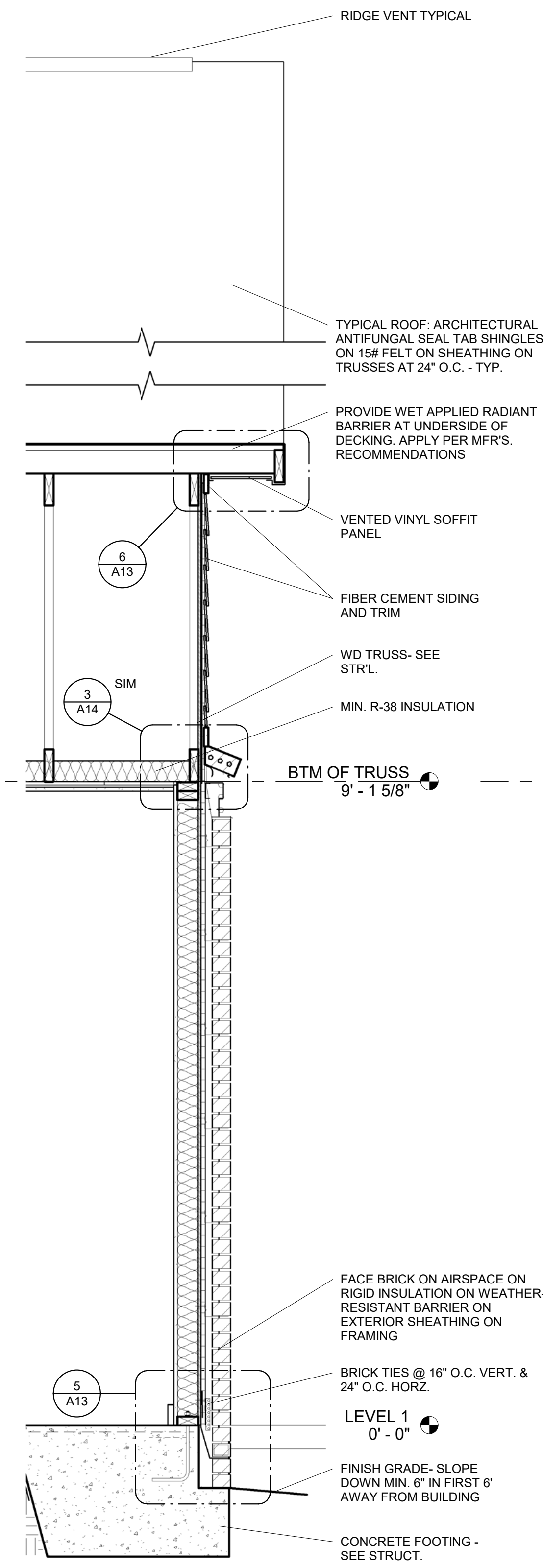
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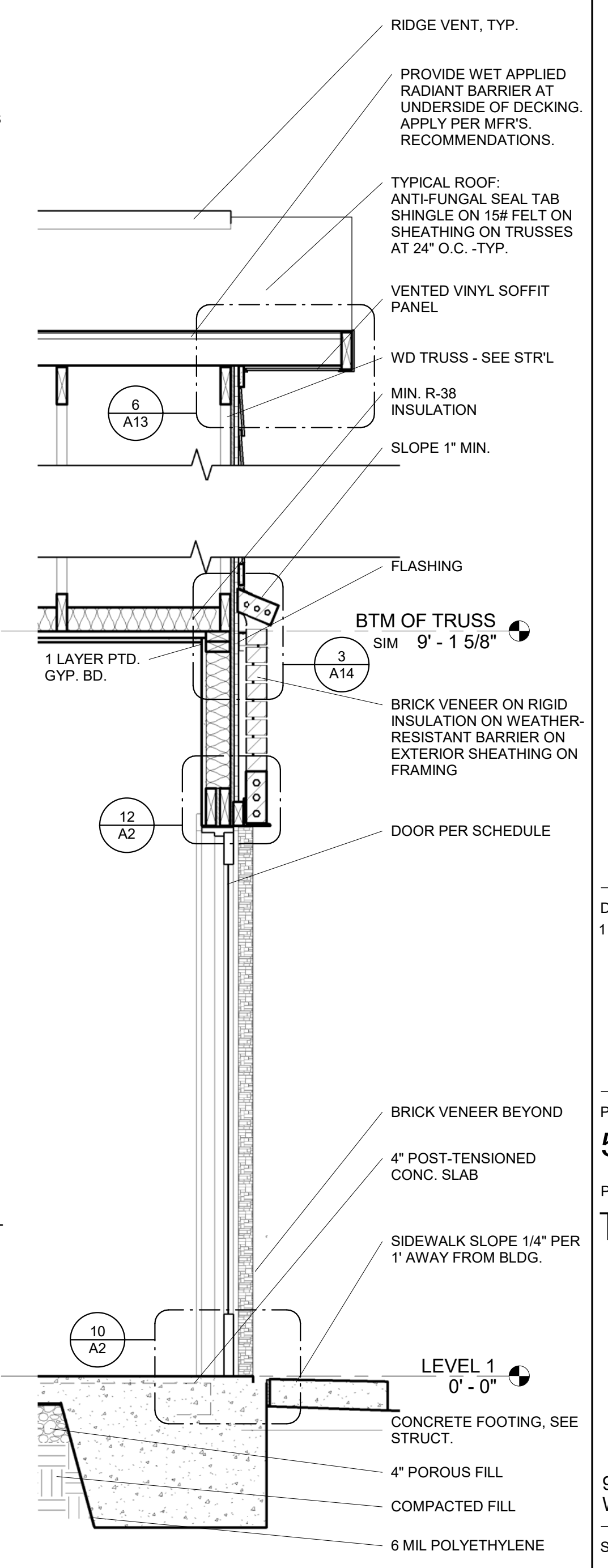
4 SECTION - BUILDING C
A17 1/4" = 1'-0"



3 WALL SECTION - CLUBHOUSE @ WINDOW
A17 3/4" = 1'-0"



2 TYPICAL WALL SECTION - BUILDING C
A17 3/4" = 1'-0"



1 WALL SECTION - CLUBHOUSE @ DOOR
A17 3/4" = 1'-0"

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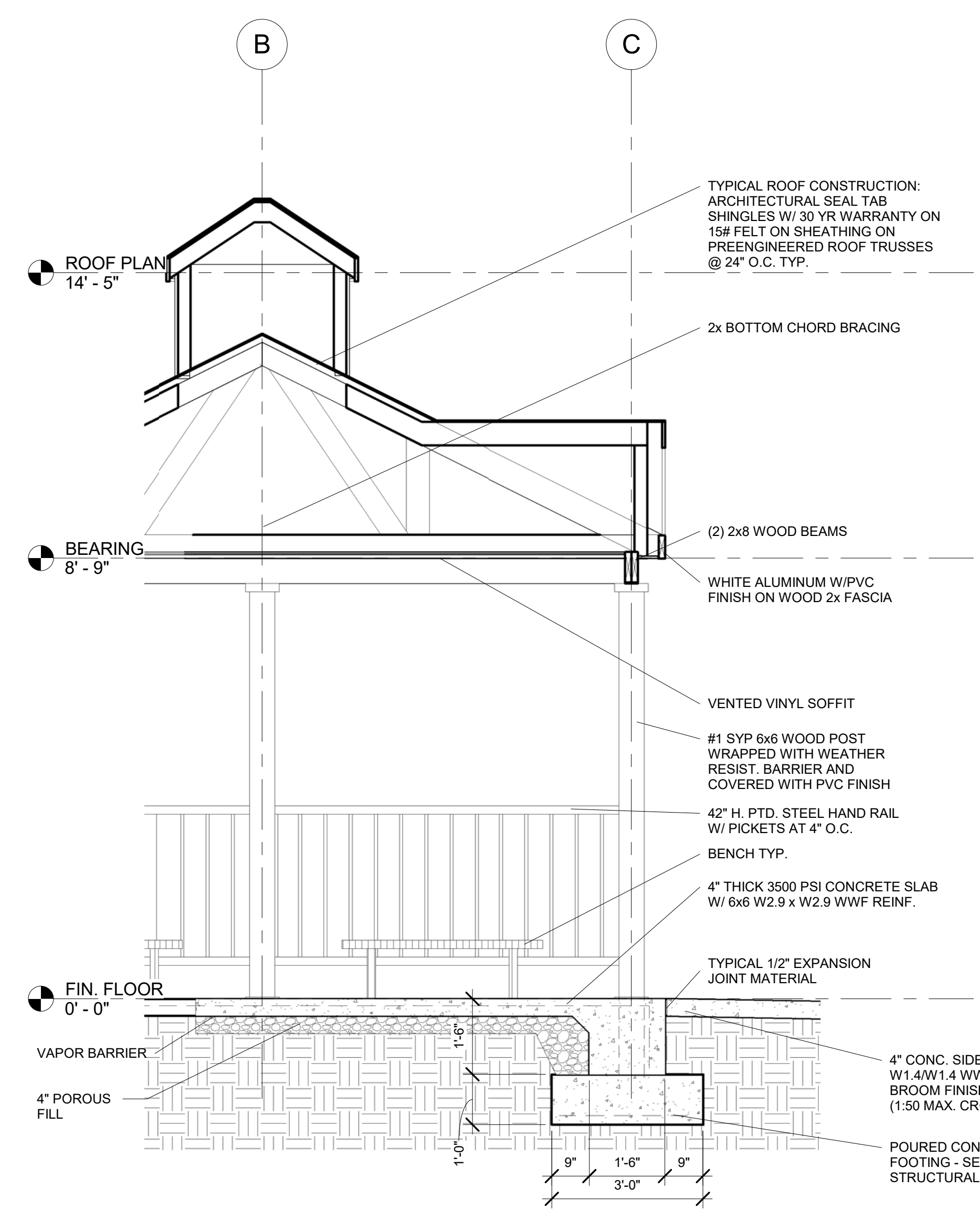
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A17

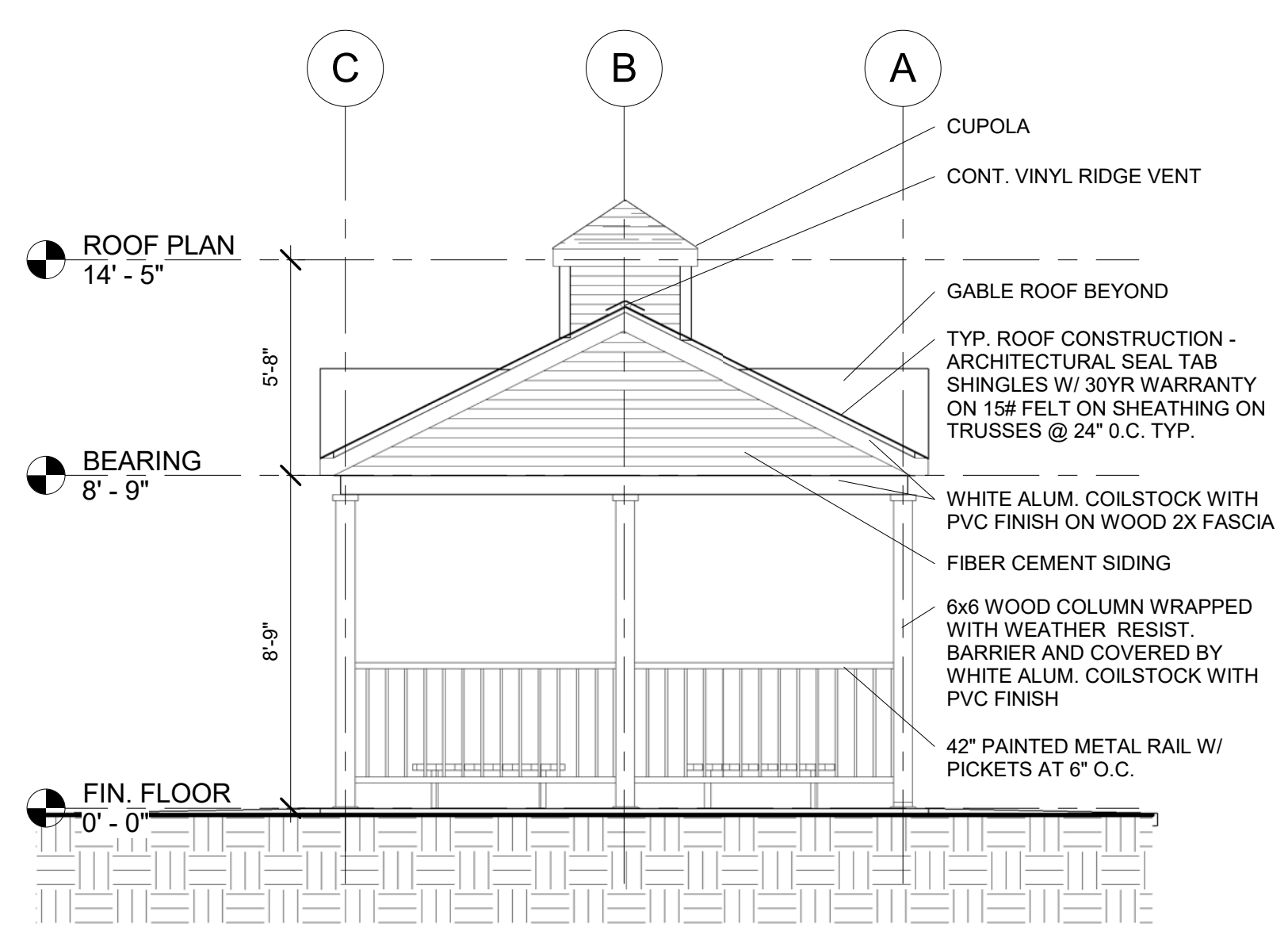
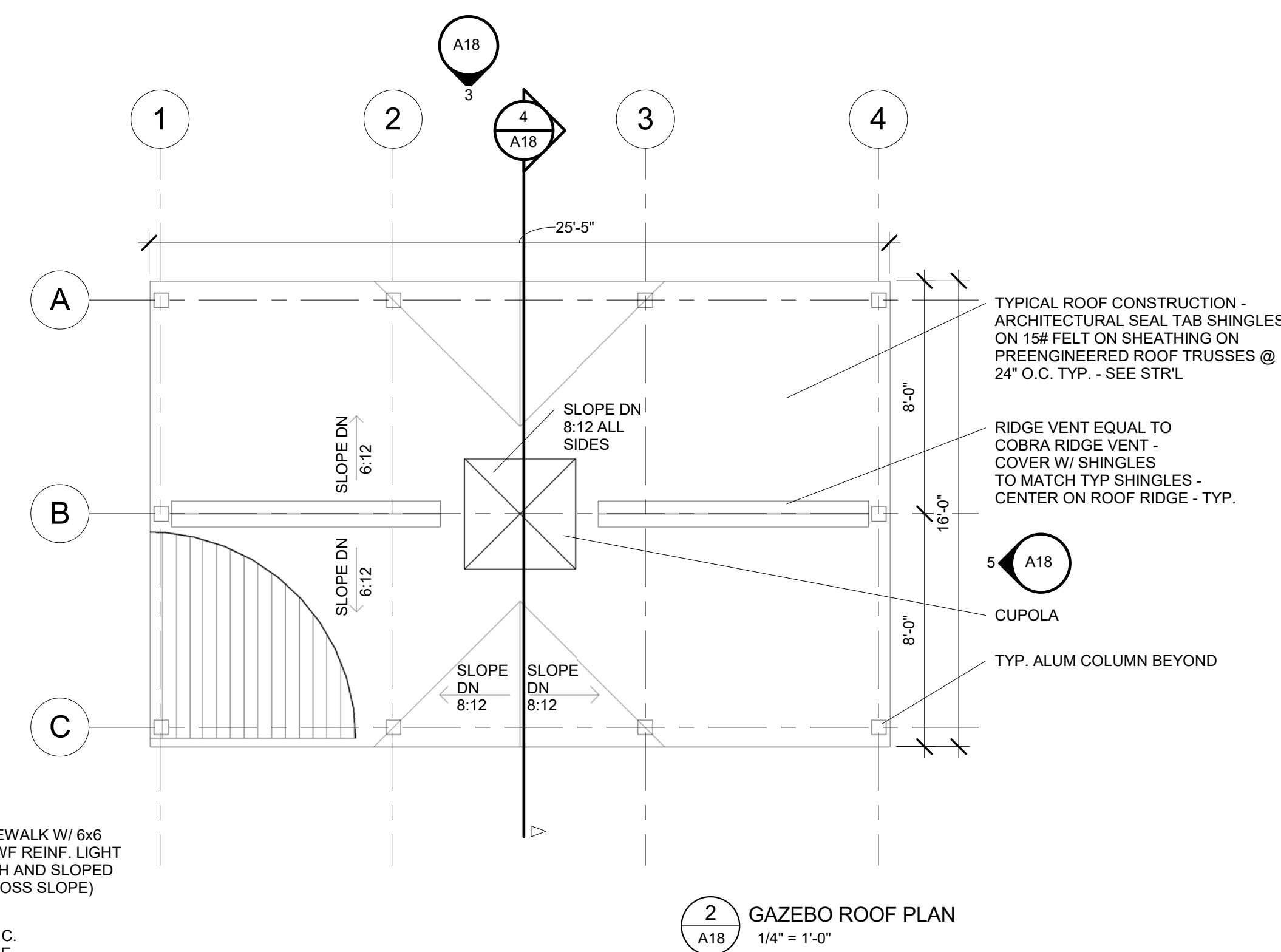
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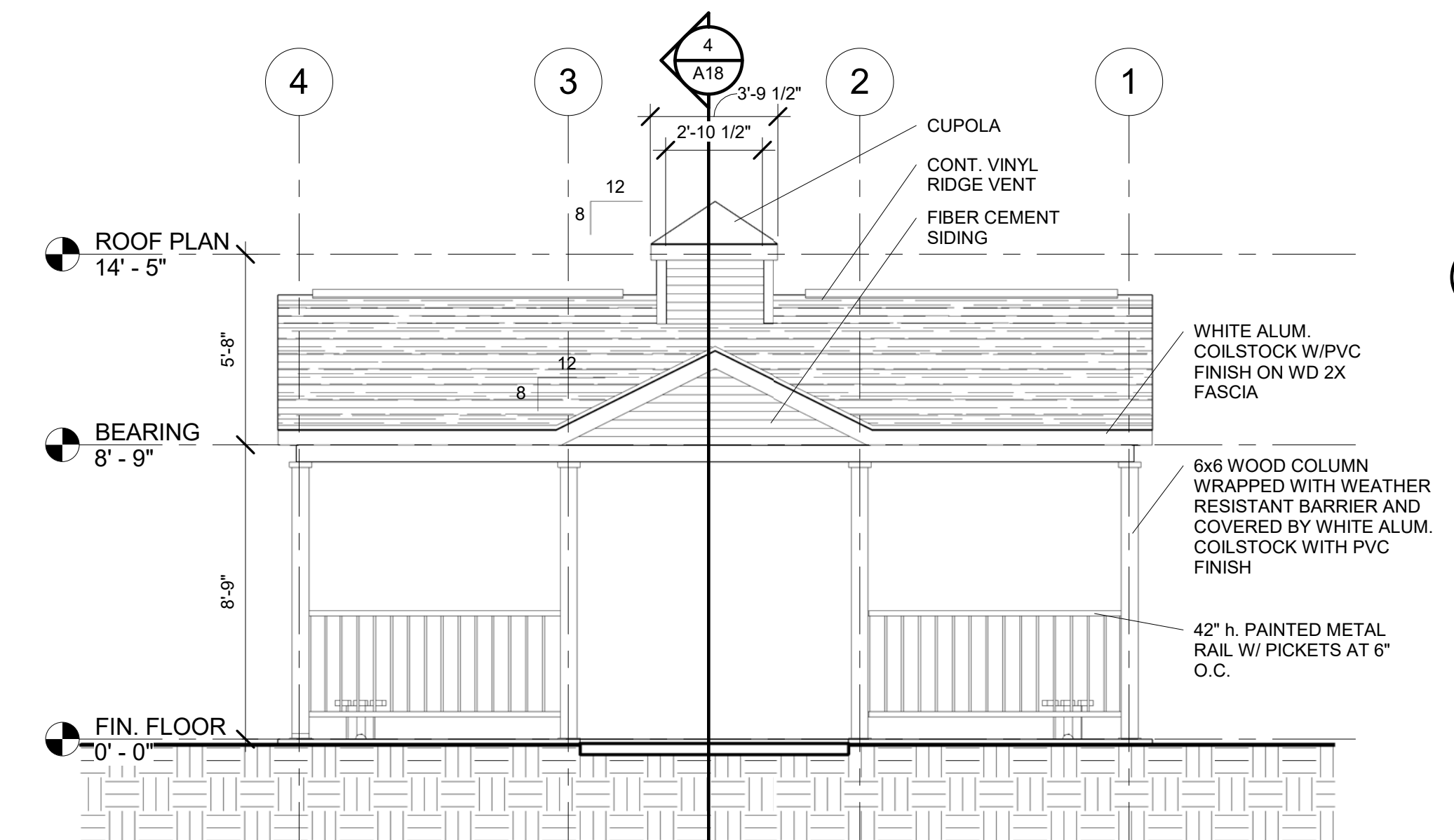
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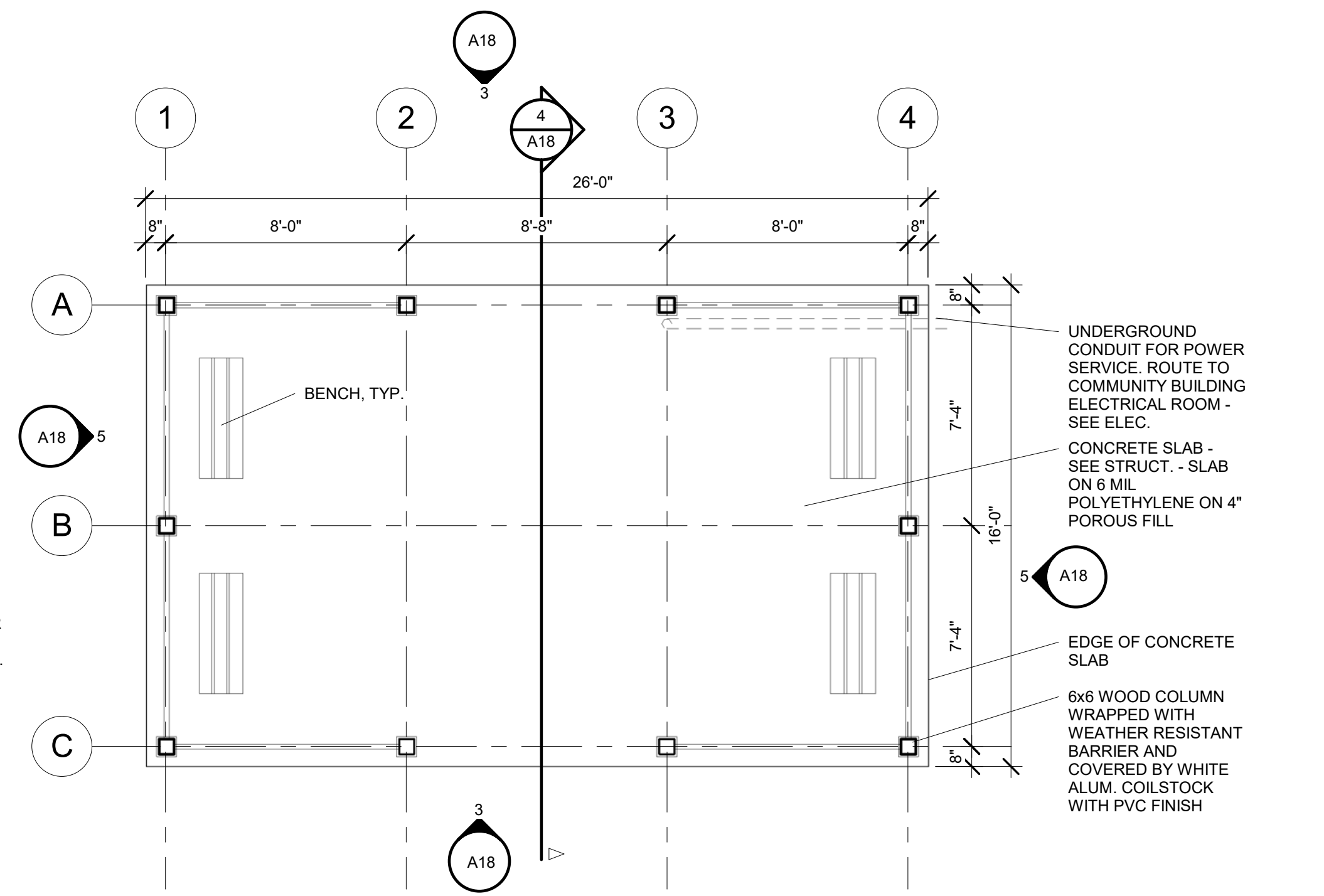
4 SECTION - GAZEBO
A18 1/2" = 1'-0"



**5 GAZEBO-WEST
ELEVATION/EAST ELEVATION
O.H.**
A18 1/4" = 1'-0"



**3 GAZEBO-NORTH
ELEVATION/SOUTH ELEVATION
O.H.**
A18 1/4" = 1'-0"



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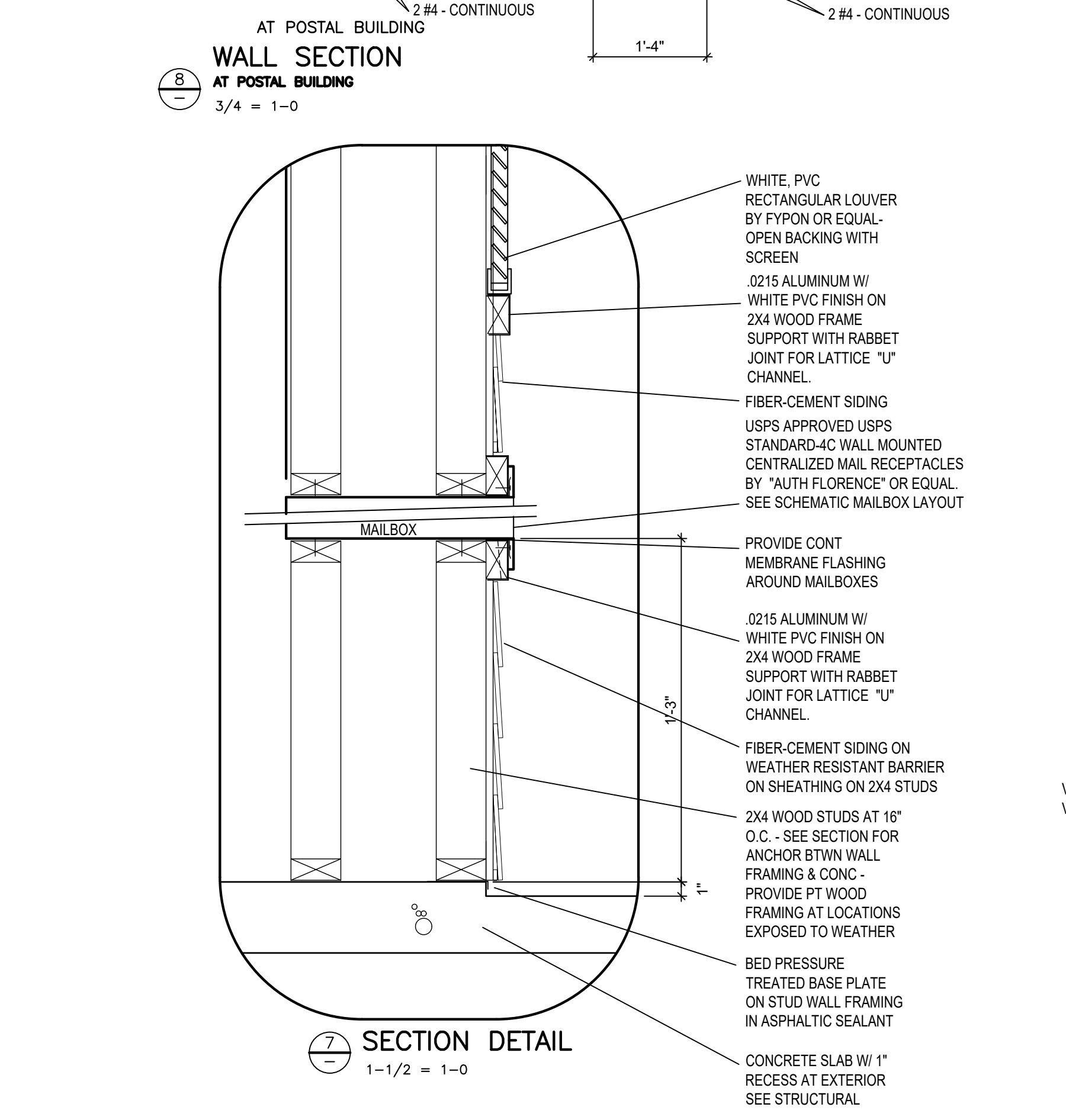
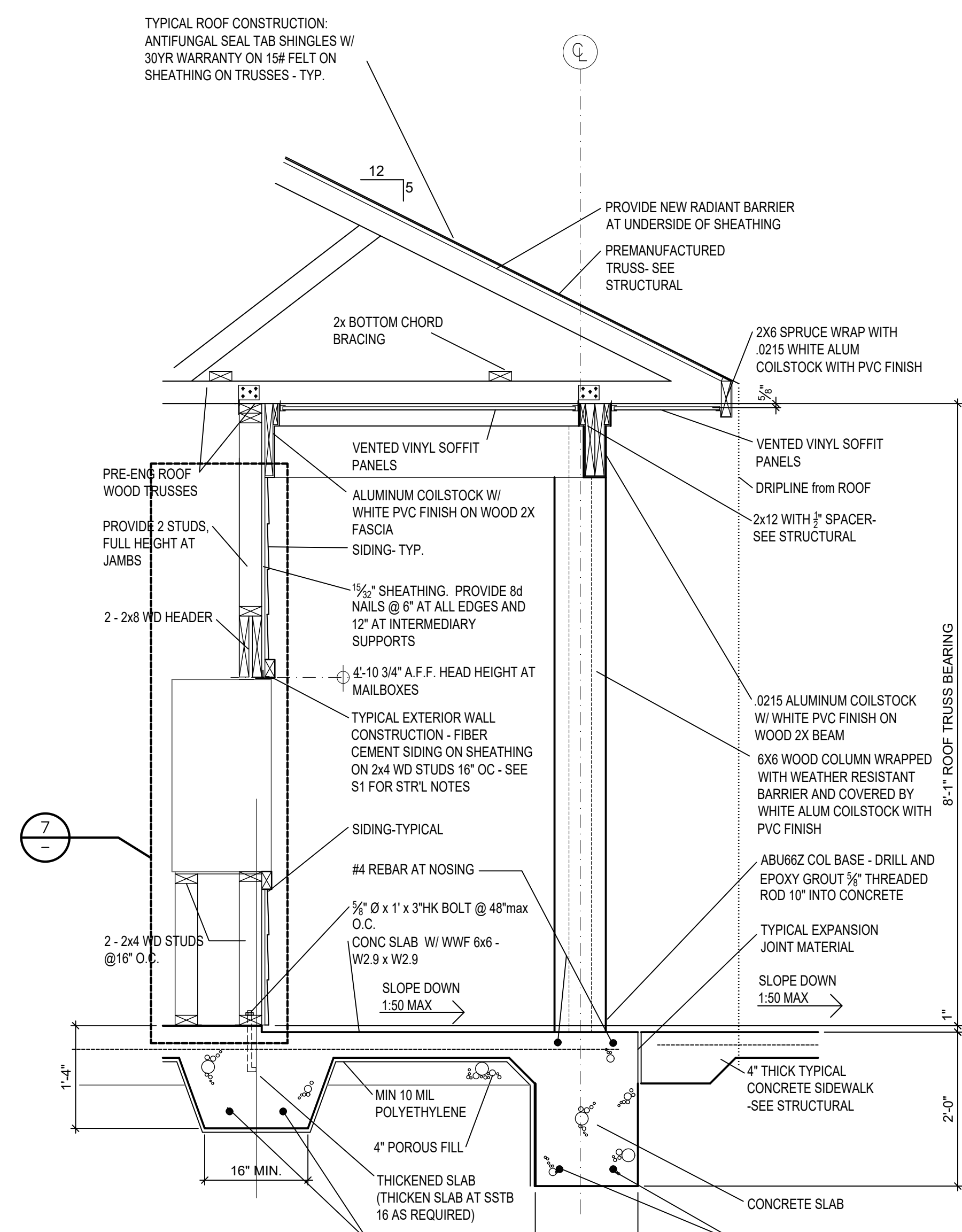
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A18

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31 9/16" ACTUAL
30 5/16" R.O.

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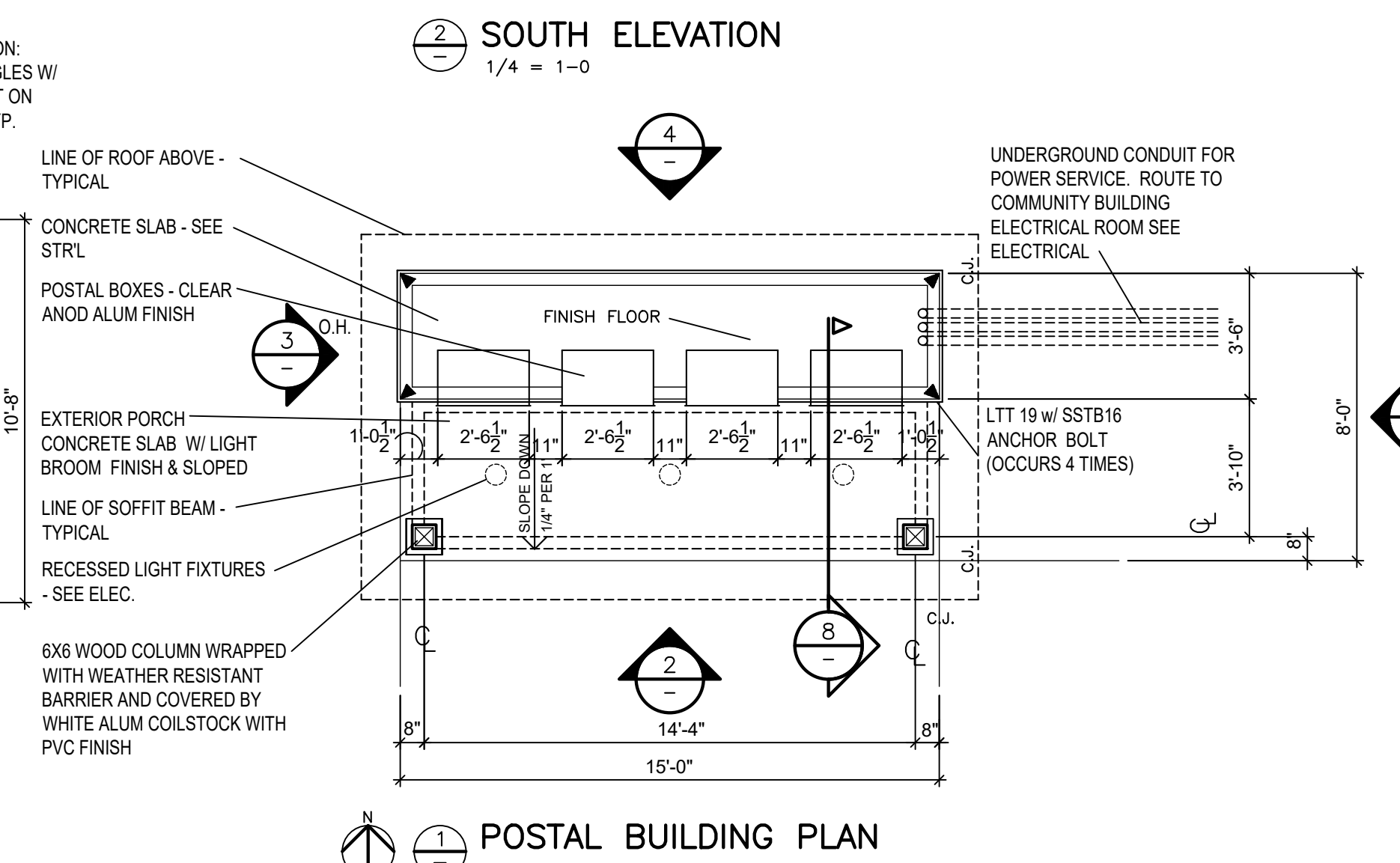
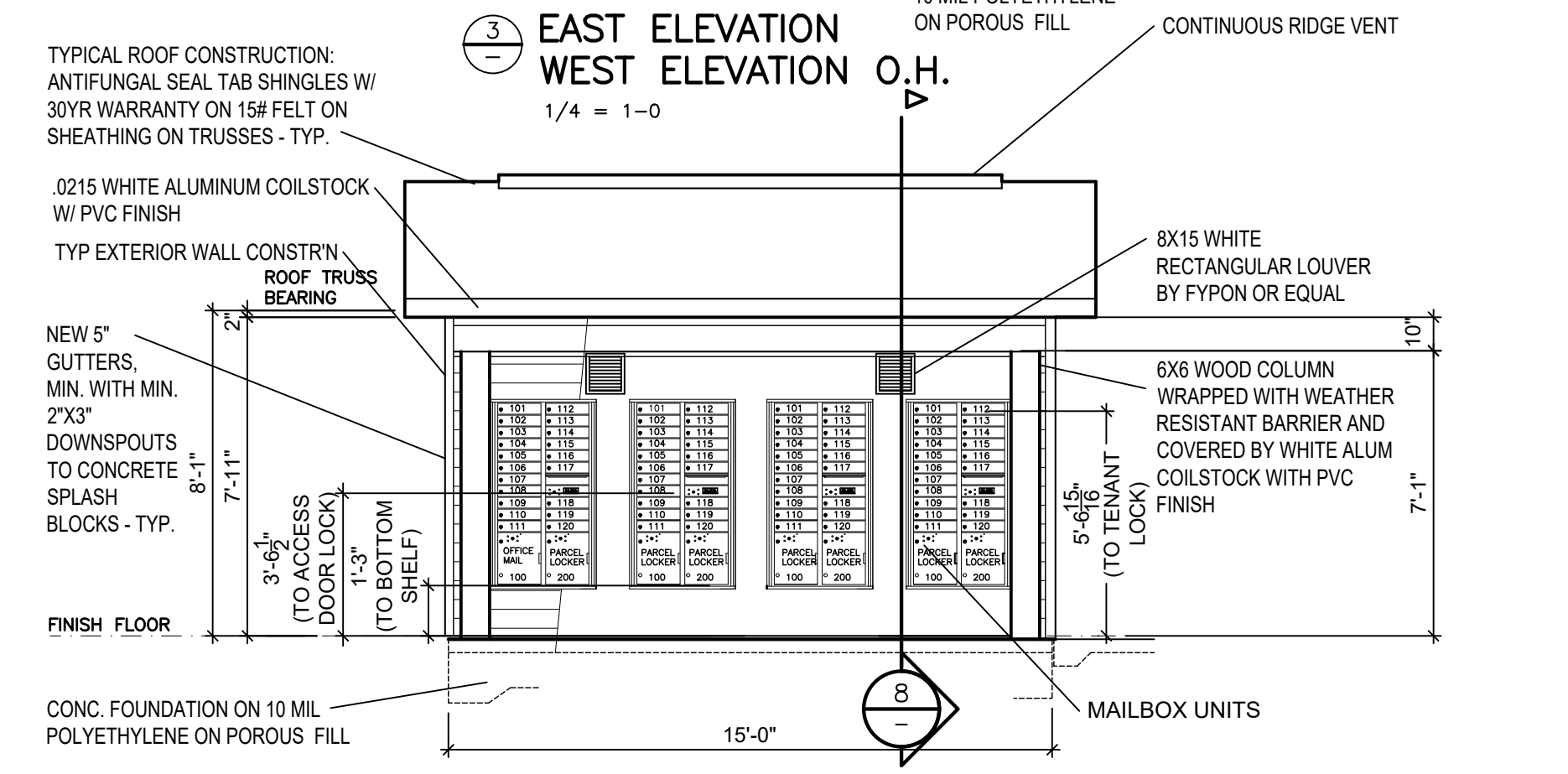
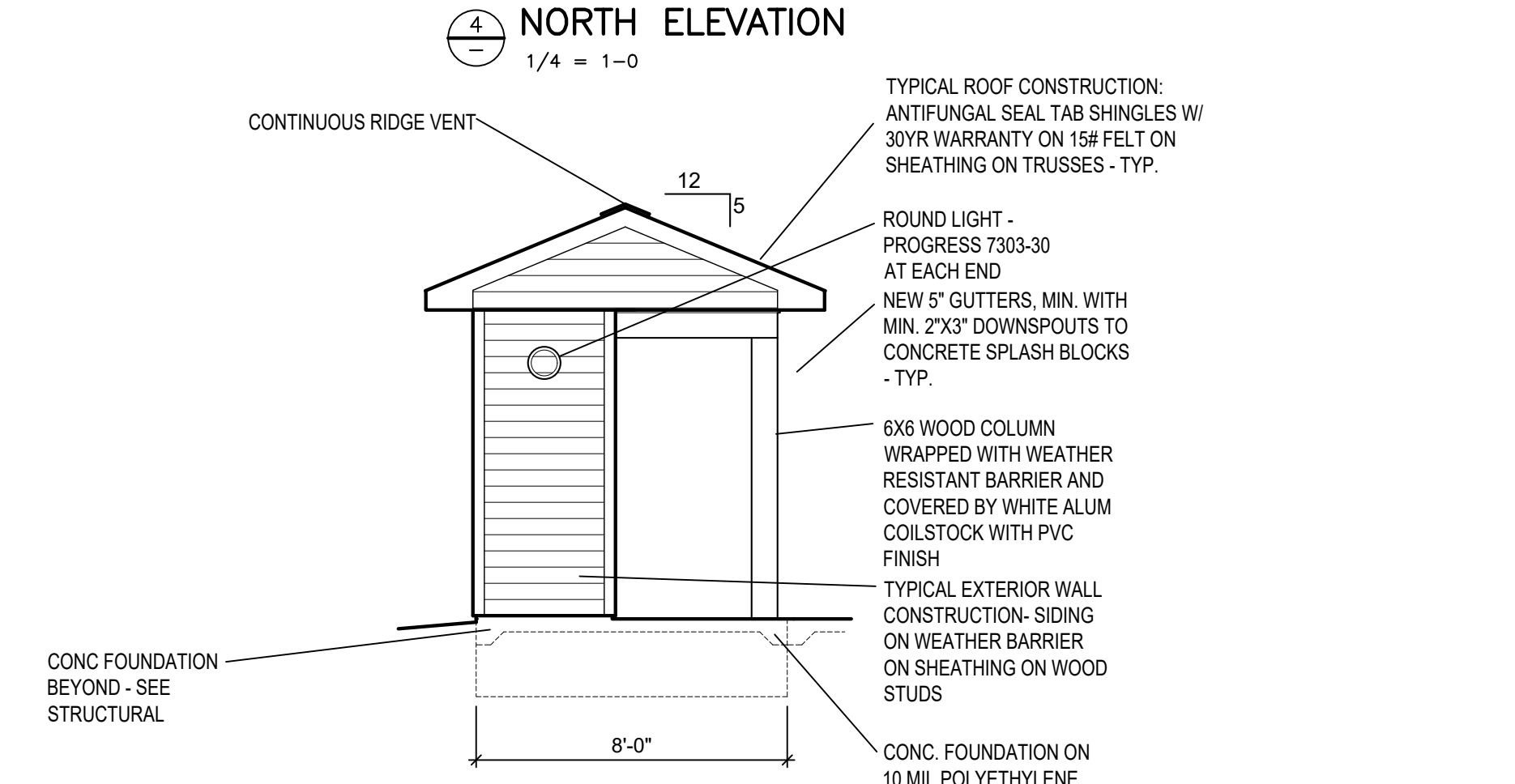
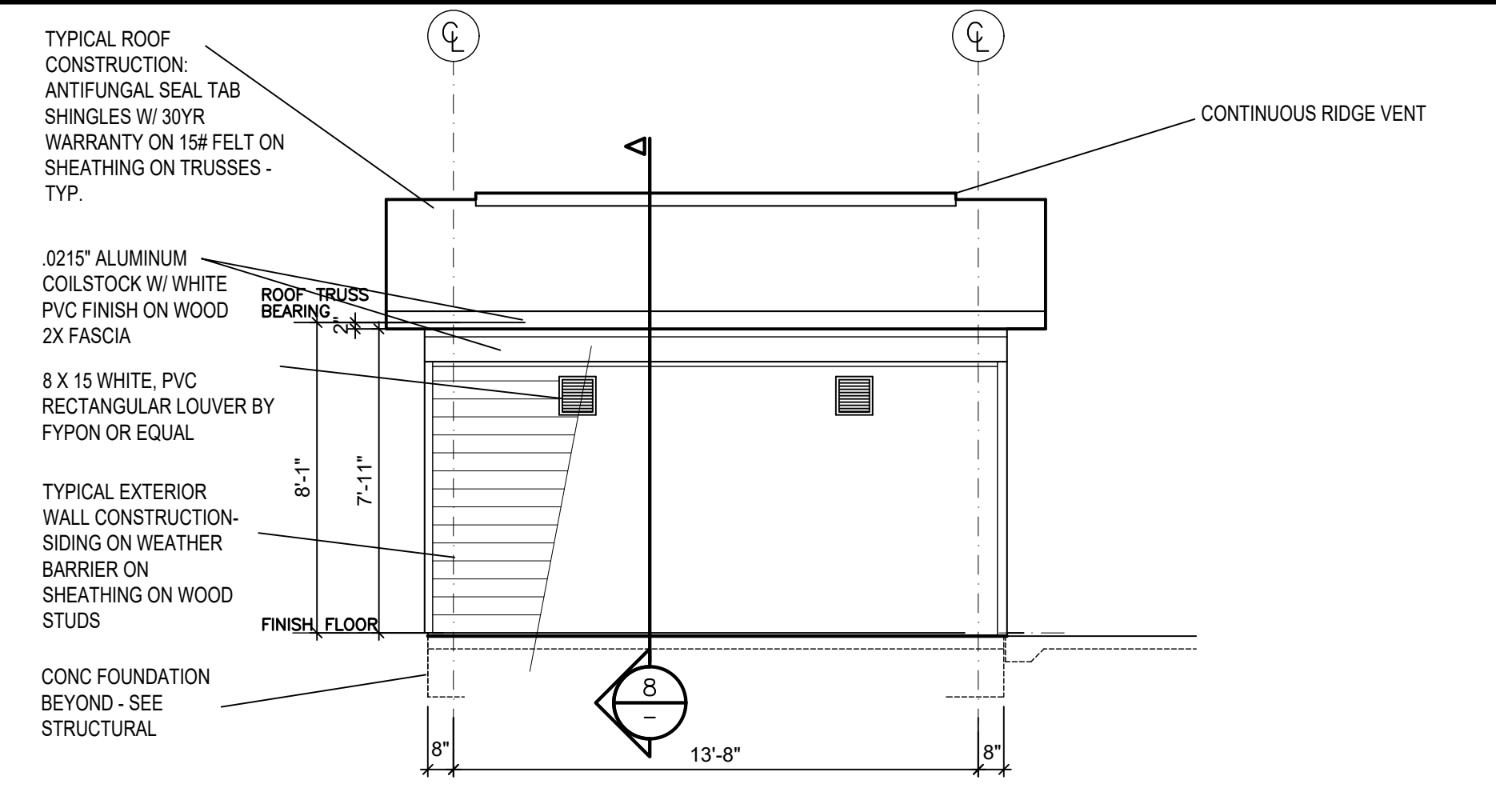
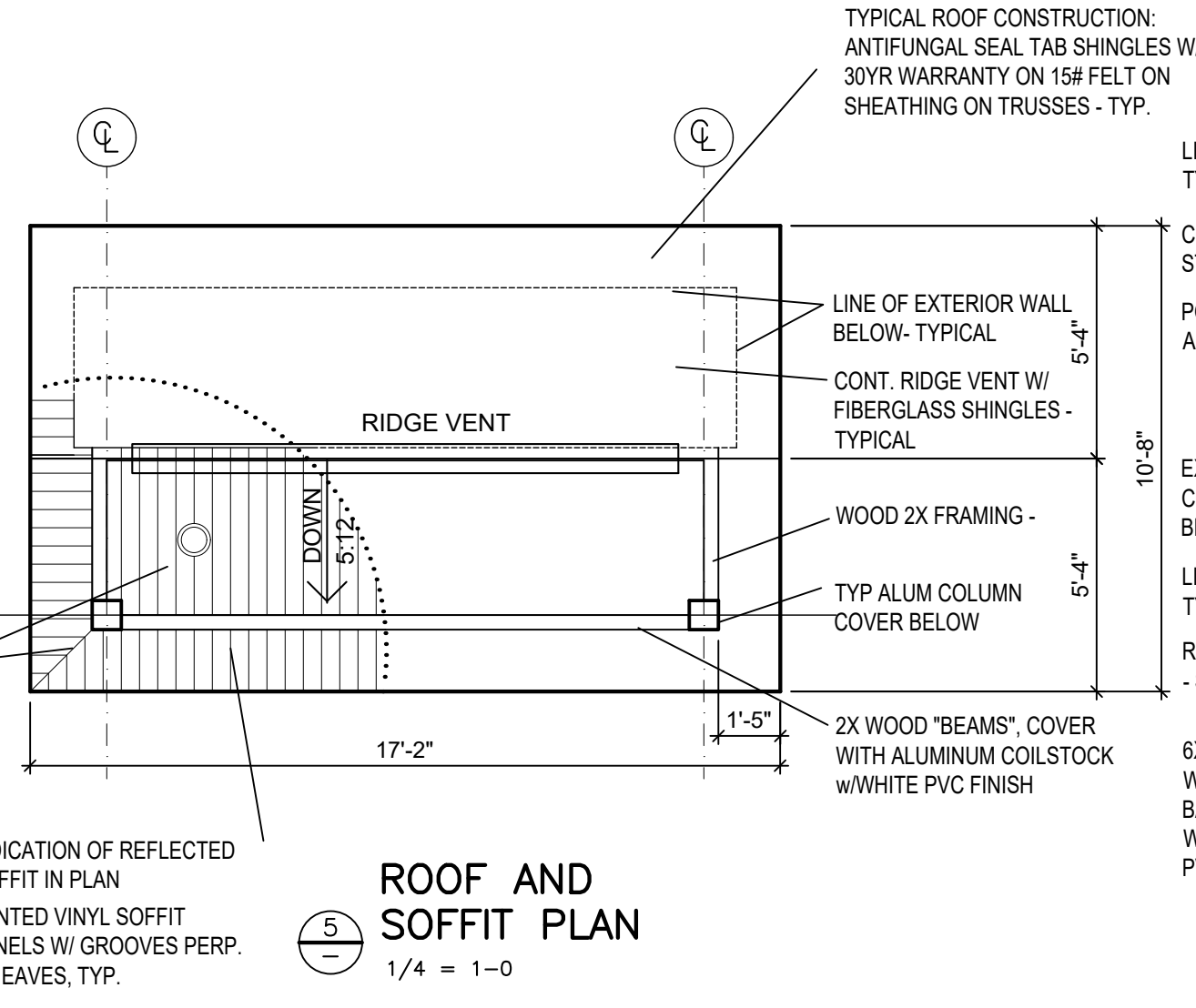
MAILBOX EQUAL TO: 4C-8D-20

OUTGOING MAIL - TYPICAL

FRONT ELEVATION
FRONT LOADING ALUMINUM CABINETS
SCHEMATIC - MAILBOXES
NTS

SCHEMATIC MAILBOX LAYOUT IS BASED ON "USPS Standard-4C Wall Mounted Centralized Mail Receptacles" FRONT LOADING UNITS. PROVIDE 64 INDIVIDUAL BOXES MINIMUM 3" high x 12" wide x 15" long. 1 BOX 10.5" high x 12" wide FOR OFFICE MAIL. PROVIDE 7 PARCEL BOXES of varying size and ONE each 15.75" high x 12" wide for OUTGOING MAIL BOX. SCHEMATIC INDICATES ARRANGEMENT AND NUMBER OF COMPARTMENTS IN EACH CABINET.

NOTE! NUMBERING SEQUENCE SHOWN IS SCHEMATIC AND CONCEPTUAL. CONFIRM NUMBER SEQUENCE THROUGH SUBMITTAL PRIOR TO FABRICATING POSTAL BOX UNITS.



PROJECT NORTH

NOTE: DIMENSIONS ARE TO EDGE OF CONC SLAB OR CENTERLINE OF COLUMN.

COORDINATE LOCATION ON SITE WITH SHEET A1, CIVIL, & LANDSCAPE

GROUND LEVEL AREAS:	
ENCLOSED AREA	55 GSF
COVERED AREA (PORCH)	65 GSF
TOTAL AREA	120 GSF

DATE
11/20/18 PERMIT SET

PROJECT NUMBER
597
PROJECT
The Park at Barton

900 E Barton Ave.
West Memphis, AR 72301

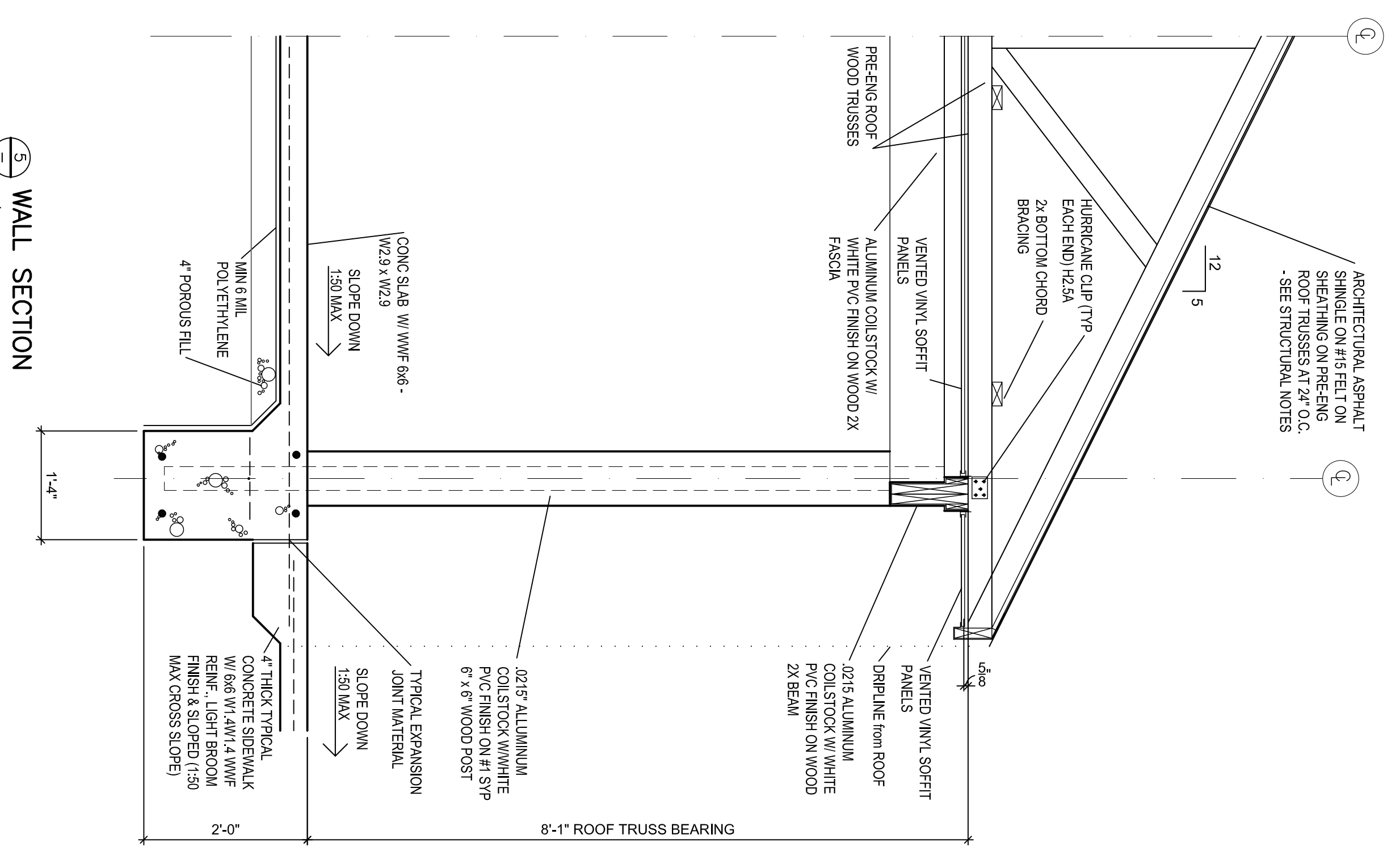
SHEET NUMBER

A19

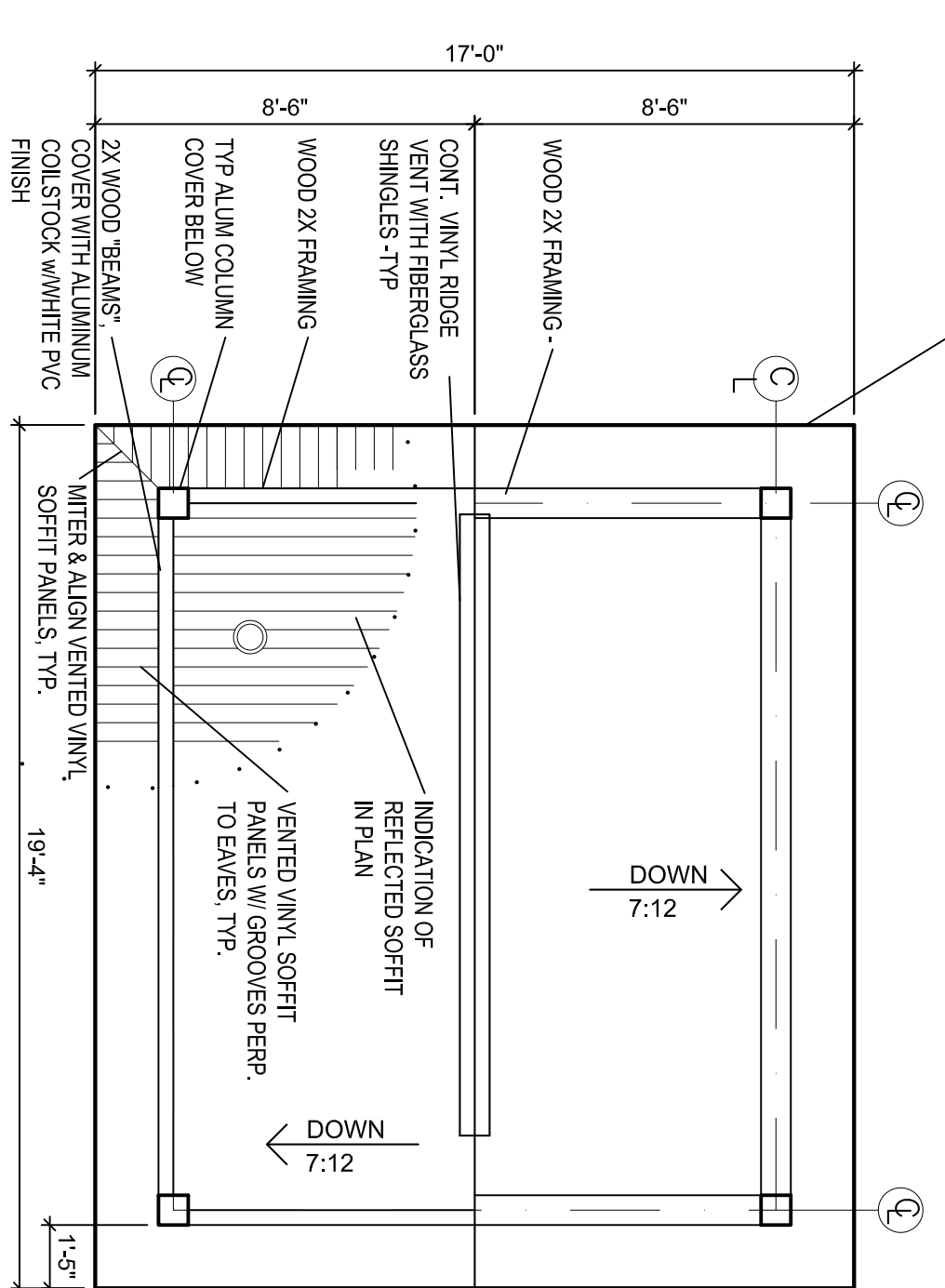
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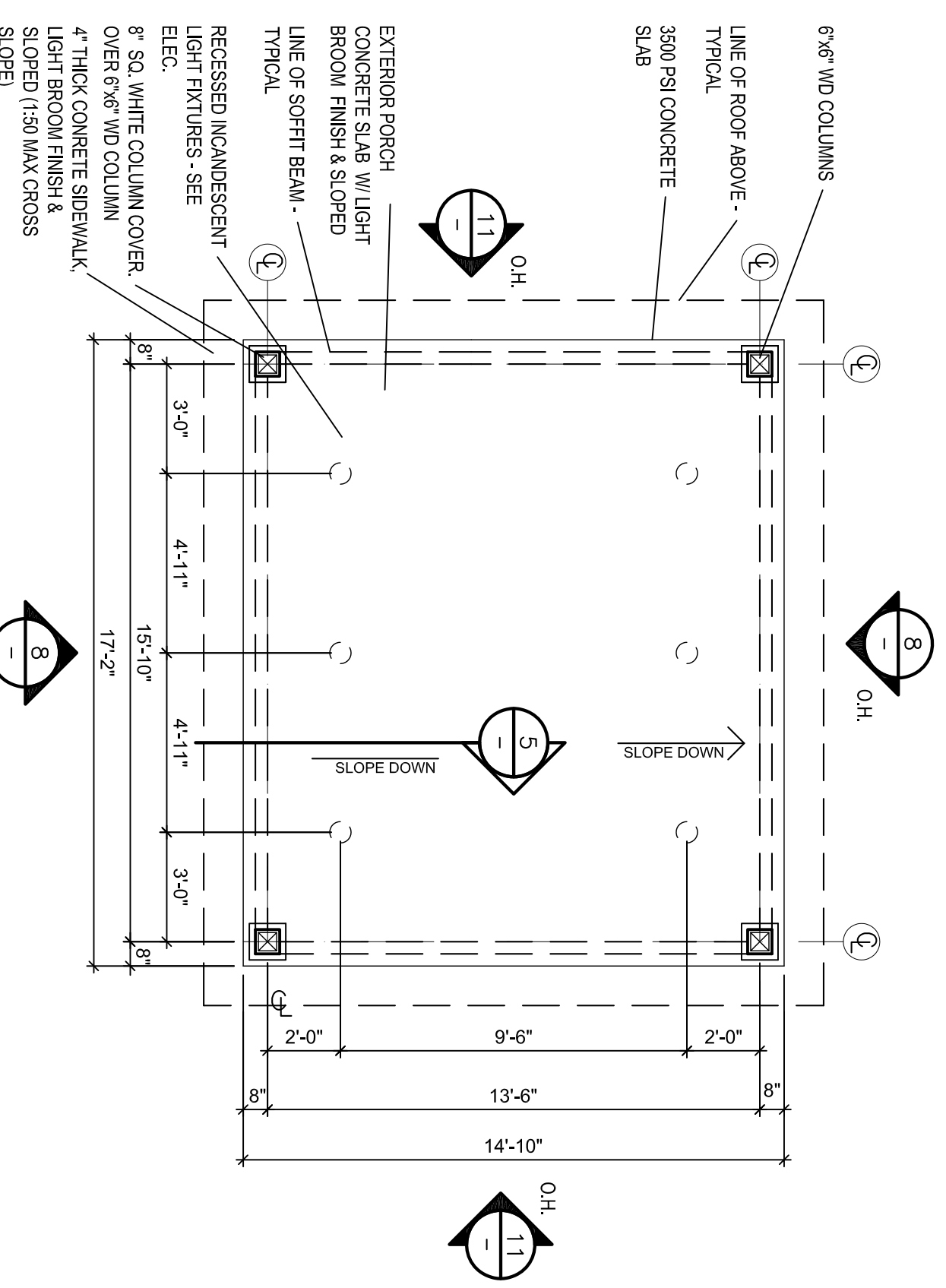
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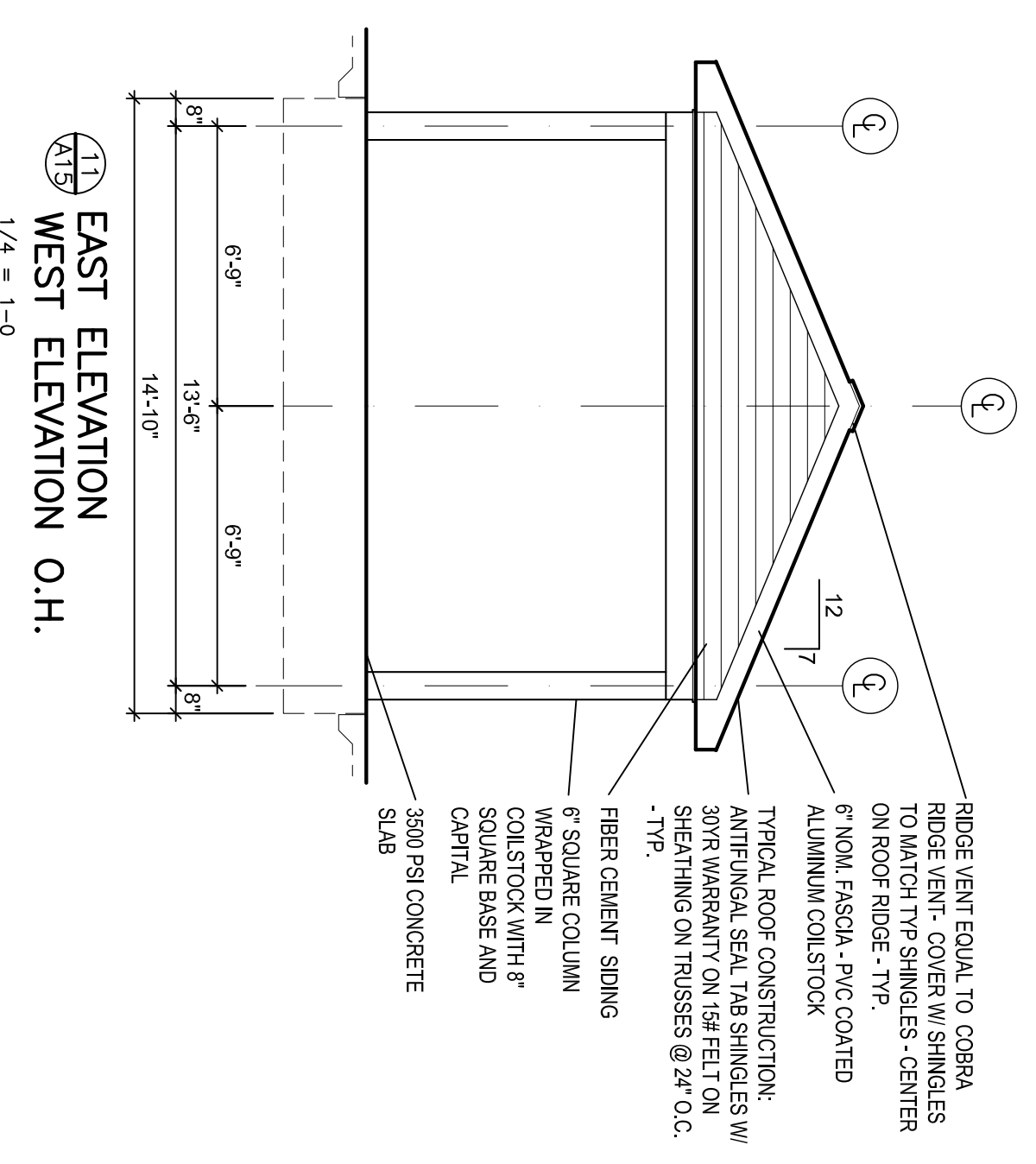
5 WALL SECTION
 3/4 = 1-0



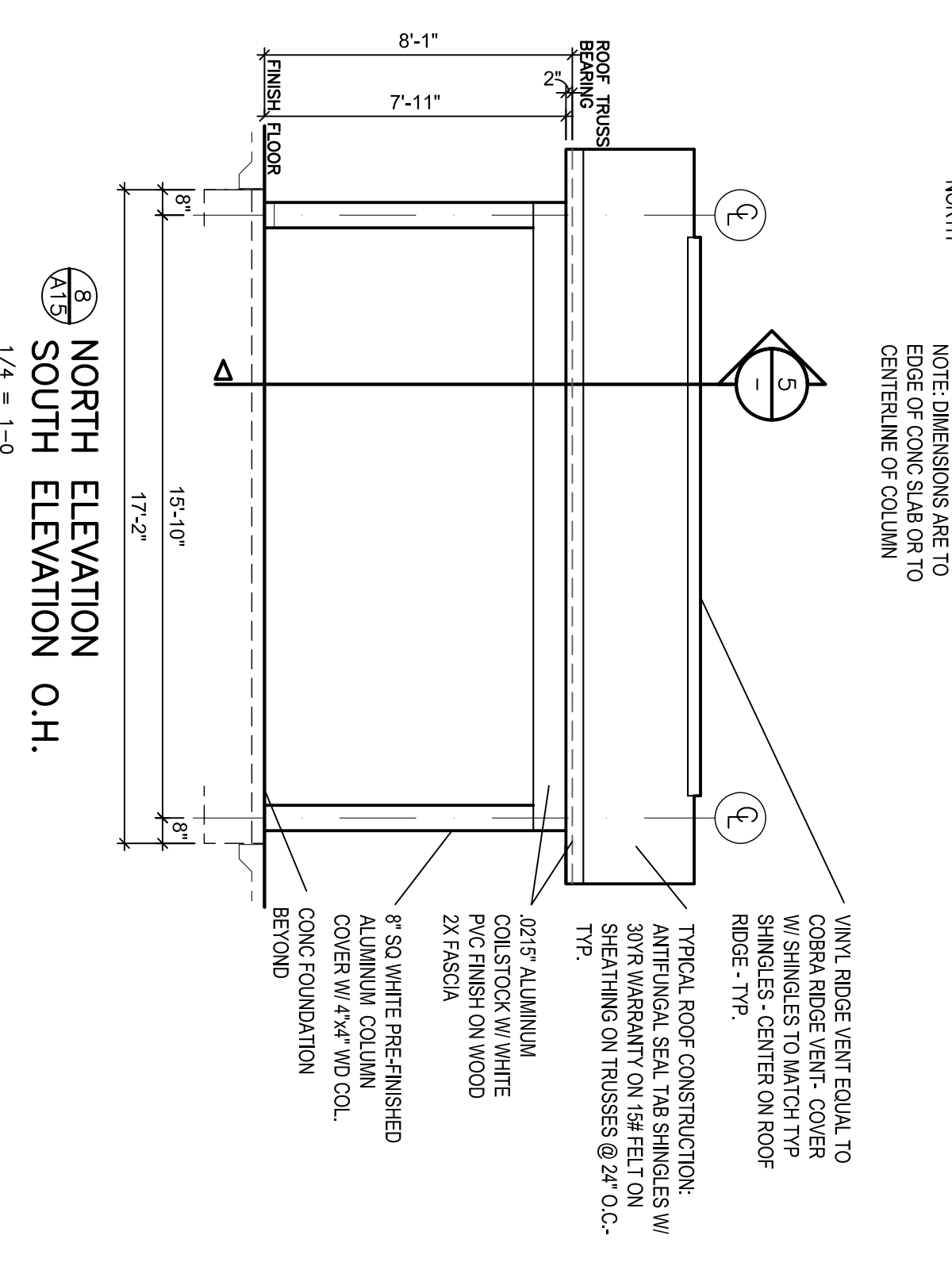
10 NEW ROOF AND SOFFIT PLAN
 1/4 = 1-0



9 NEW BUS STOP PLAN
 1/4 = 1-0
 PROJECT TOTAL AREA 329 GSF
 NOTE: DIMENSIONS ARE TO EDGE OF CONC SLAB OR TO CENTERLINE OF COLUMN



11 EAST ELEVATION O.H.
11 WEST ELEVATION O.H.
 1/4 = 1-0

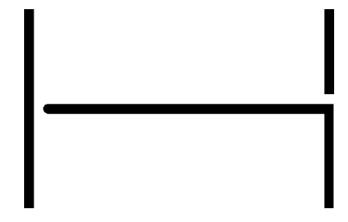


8 NORTH ELEVATION O.H.
8 SOUTH ELEVATION O.H.
 1/4 = 1-0

DATE 1 11/20/18 PERMIT SET
 PROJECT NUMBER 597
 PROJECT The Park at Barton
 900 E Barton Ave.
 West Memphis, AR 72301
 SHEET NUMBER A20
 CAD FILE NUMBER
 H:\Projects\597\02 - 3d\3d - 04 - DW\Sheet\A20.dwg
 11/20/18



11/20/2018



HERRINGTON
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www.herringtonarchitects.com

GENERAL NOTES

1.0 DESIGN CRITERIA

1.1 CODES AND SPECIFICATIONS:

- A. GENERAL BUILDING CODE:
2012 ARKANSAS FIRE PREVENTION CODE, VOL. 2 - BUILDING CODE.
 - B. CONCRETE:
BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-11)
 - C. STRUCTURAL STEEL:
SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISI/AISC 360-10)
 - D. STEEL DECK:
STEEL DECK INSTITUTE DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS, AND ROOF DECKS NO. 30, LATEST EDITION.
 - E. TIMBER:
NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, AMERICAN FOREST AND PAPER ASSOCIATION, LATEST EDITION.
- 1.2 DESIGN GRAVITY LOADS (PSF):
- A. DEAD LOADS:
ANY CHANGES IN CONSTRUCTION MATERIALS FROM THOSE SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS SHALL BE REPORTED BY THE GENERAL CONTRACTOR TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF LOAD-CARRYING CAPACITY OF THE STRUCTURE.
 - B. FLOOR LIVE LOADS:
LIVE LOAD REDUCTIONS AS DETERMINED BY IBC SECTION 1607.10 HAVE BEEN TAKEN WHERE PERMITTED.
APARTMENTS-----40
CORRIDORS ABOVE 1ST FLOOR-----40
BALCONIES, EXTERIOR-----60
STAIRS, EXITSWAYS-----100
 - C. ROOF LIVE LOADS:
WHERE PERMITTED ROOF LIVE LOADS ARE REDUCED FROM THE BASE VALUE SHOWN BELOW IN ACCORDANCE WITH IBC SECTION 1607.12.
ROOF-----20
 - D. ROOF SNOW LOADS:
GROUND SNOW LOAD (Pg)-----15.0
IMPORTANCE FACTOR (I)-----1.0
EXPOSURE FACTOR (Ce)-----0.9
THERMAL FACTOR (Ct)-----1.0
- 1.3 DESIGN LATERAL LOADS:
- A. WIND LOADS:
ULTIMATE DESIGN WIND SPEED (3-SECOND GUST)-----115 MPH
NOMINAL WIND SPEED (3-SECOND GUST)-----90 MPH
RISK CATEGORY-----II
WIND EXPOSURE CATEGORY-----C
ENCLOSURE CATEGORY-----UNENCLOSED
INTERNAL PRESSURE COEFFICIENTS----- +/- 0.18
SEE TYPICAL DETAILS FOR COMPONENT AND CLADDING LOADS
 - B. SEISMIC LOADS:
SEISMIC IMPORTANCE FACTOR-----1.0
MAPPED SPECTRAL RESPONSE ACCELERATIONS:
S_v-----1.131
S_d-----0.395
SITE CLASS-----D
SPECTRAL RESPONSE COEFFICIENTS:
S_{0.1}-----0.790
S₁-----0.424
SEISMIC DESIGN CATEGORY-----D
BASIC SEISMIC FORCE-RESISTING SYSTEM-----LIGHT-FRAMED WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE
DESIGN BASE SHEAR-----VARIES
SEISMIC RESPONSE COEFFICIENT, C_s-----0.224
RESPONSE MODIFICATION FACTOR, R-----6.5
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

STRENGTH TYPE	MAX W/C	AIR	SLUMP	USE
3500 NORMAL WT.	0.50	----	3" to 5"	UNLESS NOTED
3500 NORMAL WT.	0.50	4-6%	3" to 5"	CONCRETE ON METAL DECK
CONCRETE MIX DESIGN SHALL BE WORKABLE WITH LOWEST TOTAL WATER PER CUBIC YARD USING LARGEST PRACTICAL MAXIMUM SIZE OF COURSE AGGREGATE.				

4.3 REINFORCING BARS: ASTM A615 GRADE 60.

4.4 REINFORCING STEEL SHOWN IN SECTIONS AND DETAILS ARE A SCHEMATIC INDICATION THAT REINFORCING EXISTS. SEE SCHEDULES, SECTION NOTES AND GENERAL NOTES FOR ACTUAL REINFORCING REQUIRED.

4.5 REINFORCING BAR PLACING ACCESSORIES IN ACCORDANCE WITH ACI MANUAL OF STANDARD PRACTICE. WHERE CONCRETE IS EXPOSED IN FINISHED BUILDING, PROVIDE ACCESSORIES WITH RUSTPROOF LEGS. WHERE CONCRETE IS SAND-BLASTED OR BUSH-HAMMERED, PROVIDE ACCESSORIES OF STAINLESS STEEL.

4.6 DETAIL REINFORCEMENT IN ACCORDANCE WITH ACI 315. REINFORCEMENT SHALL NOT BE WELDED UNLESS NOTED OR APPROVED BY THE ENGINEER.

4.7 ALL SPLICES SHALL BE CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.

4.8 ALL REINFORCING MARKED "CONTINUOUS" SHALL BE SPLICED WITH CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.

4.9 PROVIDE CORNER BARS AT ALL CORNERS OF CONTINUOUS REINFORCING IN FOOTINGS, SLABS OR WALLS. CORNER BARS SHALL BE LONG ENOUGH TO PROVIDE A CLASS "B" LAP SPLICE OF REINFORCING BARS.

4.10 CONCRETE COVERAGE OF REINFORCEMENT, UNLESS NOTED:

FOOTINGS-----	2" TOP & 3" BOTTOM & SIDES
SLAB FACES NOT EXPOSED TO WEATHER OR EARTH-----	3/4"
SLAB FACES EXPOSED TO WEATHER-----	1-1/2"
A. #5 AND LESS-----	1-1/2"
B. #6 AND GREATER-----	2"

NOTE: SLAB ON GRADE W/WR OR REINFORCEMENT EACH WAY SHALL BE 2" CLEAR FROM TOP OF SLAB. SEE EARTH SUPPORTED SLABS SECTION BELOW.

4.11 WELDED WIRE REINFORCEMENT (WWR): ASTM A185. MINIMUM LAP AND EMBEDMENT TO BE THE GREATER OF ONE CROSS WIRE SPACING PLUS 2 INCHES OR 1 INCHES.

4.12 EARTH SUPPORTED SLABS:
4" THICK, REINFORCED WITH 6x6 W2.9/W2.9 WWR FLAT SHEETS SUPPORTED 2" CLEAR OF TOP OF SLAB, UNLESS NOTED. WWR TO BE CHAIRED AT 36 INCHES EACH WAY MINIMUM.
EARTH SUPPORTED SLABS SHALL BE MOIST CURED FOR A MINIMUM OF SEVEN DAYS. SEE SPECIFICATIONS, CURING COMPOUNDS, UNLESS NOTED, SHALL BE A MINIMUM OF CLEAR, WATERPROOF, MEMBRANE-FORMING CURING COMPOUND MEETING ASTM C 309, TYPE 1, CLASS B, SELF-DISPERSATING, CERTIFIED BY CURING COMPOUND MANUFACTURER TO NOT INTERFERE WITH BONDING OF FLOOR COVERING.
PROVIDE 244 x 6'-0" BARS MID DEPTH OF SLAB AT REINTRACT CORNERS.

2.0 GENERAL CONDITIONS

- 2.1 THE STRUCTURAL DRAWINGS AND SPECIFICATIONS ARE A PORTION OF THE CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL REVISIONS AND COORDINATE AND COORDINATE ANY DISCREPANCIES OR OMISSIONS SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT AND STRUCTURAL DESIGN GROUP.
- 2.2 ALL REPORTS, PLANS, SPECIFICATIONS, COMPUTER FILES, FIELD DATA, NOTES, AND OTHER DOCUMENTS AND INSTRUMENTS PREPARED BY STRUCTURAL DESIGN GROUP AS INSTRUMENTS OF SERVICE SHALL REMAIN THE PROPERTY OF STRUCTURAL DESIGN GROUP. STRUCTURAL DESIGN GROUP SHALL RETAIN ALL COMMON LAW, STATUTORY, AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THEREOF.
- 2.3 STRUCTURAL DESIGN GROUP MAY CONSIDER TRANSFERRING COMPUTER AIDED DRAFTING FILES TO THE GENERAL CONTRACTOR'S SUBCONTRACTORS, ON A CASE BY CASE BASIS, FOR THEIR CONVENIENCE IN PREPARING SHOP FABRICATION DRAWINGS AT A COST OF \$75 PER SHEET. FILES CAN BE TRANSFERRED UPON COMPLETION OF A CAD FILE TRANSFER AGREEMENT AND RECEIPT OF FULL PAYMENT.
- 2.4 CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND SITE CONDITIONS PRIOR TO FABRICATION/CONSTRUCTION. NOTIFY STRUCTURAL ENGINEER AND ARCHITECT OF ANY DISCREPANCIES PRIOR TO FABRICATION/CONSTRUCTION.
- 2.5 ALL DETAILS SHOWN ARE TYPICAL. SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS, UNLESS NOTED.
- 2.6 VERIFY ALL DIMENSIONS AND DETAILS SHOWN ON THESE DRAWINGS. ANY DISCREPANCIES OR OMISSIONS FOUND SHALL BE REPORTED TO THE ENGINEER AND OTHER DESIGN PROFESSIONALS AS APPROPRIATE FOR RESOLUTION PRIOR TO PROCEEDING WITH ANY RELATED WORK.
- 2.7 THESE DRAWINGS DO NOT INCLUDE PROVISIONS TO SATISFY JOB SITE SAFETY REQUIREMENTS. CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING SAFETY DURING CONSTRUCTION AND FOR CONFORMANCE TO ALL APPLICABLE OSHA STANDARDS. JOBSITE VISITS BY ENGINEER SHALL NOT CONSTITUTE APPROVAL, AWARENESS OR LIABILITY FOR ANY HAZARDOUS CONDITIONS.
- 2.8 STRUCTURAL DESIGN GROUP IS NOT RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, SAFETY PROCEDURES, CONSTRUCTION SUPERVISION OR SITE SAFETY, AND DOES NOT HAVE THE AUTHORITY TO STOP WORK FOR THESE ITEMS.
- 2.9 THE CONTRACTOR IS SOLELY RESPONSIBLE FOR BRACING AND SHORING ALL EXCAVATIONS, DEWATERING OF EXCAVATION WATER, GROUND WATER AND SEWAGE, TEMPORARY AND EXISTING STRUCTURES, AND PARTIALLY COMPLETED PORTIONS OF THE WORK TO ASSURE THE SAFETY OF ANY PERSON COMING IN CONTACT WITH THE WORK.
- 2.10 THE STRUCTURAL INTEGRITY OF THE BUILDING IS DEPENDENT UPON COMPLETION ACCORDING TO THE PLANS AND SPECIFICATIONS. THE STRUCTURAL ENGINEER OF RECORD ASSUMES NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION. THE METHOD OF CONSTRUCTION AND SEQUENCE OF OPERATIONS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL SUPPLY ANY NECESSARY BRACING, GUYS, ETC., TO PROPERLY BRACE THE STRUCTURE AGAINST WIND, DEAD AND LIVE LOADS UNTIL THE BUILDING IS COMPLETED ACCORDING TO THE PLANS AND SPECIFICATIONS. ANY QUESTIONS REGARDING TEMPORARY BRACING REQUIREMENTS SHOULD BE FORWARDED TO A STRUCTURAL ENGINEER FOR REVIEW.
- 2.11 MECHANICAL UNITS AND ANY OTHER EQUIPMENT SUPPORTED BY THE STRUCTURE WITH WEIGHTS IN EXCESS OF 200 LBS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
- 2.12 WHERE NOTED IN DRAWINGS AND SPECIFICATIONS TO INSTALL PRODUCTS PER THE MANUFACTURER'S RECOMMENDATIONS IT SHALL BE REQUIRED THAT THE CONTRACTOR FOLLOWS THE MANUFACTURER'S RECOMMENDATIONS.

3.0 FOUNDATIONS

- 3.1 A GEOTECHNICAL ENGINEER, EMPLOYED BY THE GENERAL CONTRACTOR, SHALL PROVIDE COMPACTED FILL REQUIREMENTS FOR THE BUILDING PAD AND REVIEW THE FOUNDATION BEARING SURFACE TO VERIFY THE ASSUMED ALLOWABLE BEARING PRESSURE AND SEISMIC SITE CLASS NOTED. DO NOT PLACE CONCRETE PRIOR TO GEOTECHNICAL ENGINEER'S APPROVAL.
- 3.2 ASSUMED MAXIMUM ALLOWABLE BEARING PRESSURES (PSF):
COLUMN FOOTINGS-----2000
CONTINUOUS WALL FOOTINGS-----1500
- 3.3 ALL FOUNDATION BEARING SURFACES SHALL BE REVIEWED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE TO INSURE THEIR COMPLIANCE WITH PRESSURES NOTED. ALL FOOTING ELEVATIONS ARE ESTIMATED AND MAY BE ADJUSTED IN THE FIELD BY THE GEOTECHNICAL ENGINEER.
- 3.4 COMPACTED FILL WITHIN THE BUILDING AREA (AND EXTENDING 5'-0" OUTSIDE THE EXTERIOR BUILDING LINE) SHALL MEET THE REQUIREMENTS OF THE GEOTECHNICAL ENGINEER.
- 3.5 SUBGRADE AND GRANULAR FILL SUPPORTING SLABS ON GRADE SHALL BE AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER AND COMPACTED UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER OR HIS APPROVED REPRESENTATIVE. SEE SPECIFICATIONS FOR VAPOR RETARDER BENEATH SLABS ON GRADE.
- 3.6 NO EXCAVATION SHALL BE CLOSER THAN AT A SLOPE OF 2:1 (TWO HORIZONTAL TO ONE VERTICAL) TO A FOOTING.

4.0 CONCRETE

- 4.1 CONCRETING OPERATIONS SHALL COMPLY WITH ACI STANDARDS.
- 4.2 CONCRETE STRENGTH AND DURABILITY REQUIREMENTS: MINIMUM CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS (PSI), TYPE OF CEMENT, MAXIMUM WATER/CEMENTITIOUS RATIO, AIR CONTENT, SLUMP, AND CONCRETE USE:

STRENGTH TYPE	MAX W/C	AIR	SLUMP	USE
3500 NORMAL WT.	0.50	----	3" to 5"	UNLESS NOTED
3500 NORMAL WT.	0.50	4-6%	3" to 5"	CONCRETE ON METAL DECK

CONCRETE MIX DESIGN SHALL BE WORKABLE WITH LOWEST TOTAL WATER PER CUBIC YARD USING LARGEST PRACTICAL MAXIMUM SIZE OF COURSE AGGREGATE.
- 4.3 REINFORCING BARS: ASTM A615 GRADE 60.
- 4.4 REINFORCING STEEL SHOWN IN SECTIONS AND DETAILS ARE A SCHEMATIC INDICATION THAT REINFORCING EXISTS. SEE SCHEDULES, SECTION NOTES AND GENERAL NOTES FOR ACTUAL REINFORCING REQUIRED.
- 4.5 REINFORCING BAR PLACING ACCESSORIES IN ACCORDANCE WITH ACI MANUAL OF STANDARD PRACTICE. WHERE CONCRETE IS EXPOSED IN FINISHED BUILDING, PROVIDE ACCESSORIES WITH RUSTPROOF LEGS. WHERE CONCRETE IS SAND-BLASTED OR BUSH-HAMMERED, PROVIDE ACCESSORIES OF STAINLESS STEEL.
- 4.6 DETAIL REINFORCEMENT IN ACCORDANCE WITH ACI 315. REINFORCEMENT SHALL NOT BE WELDED UNLESS NOTED OR APPROVED BY THE ENGINEER.
- 4.7 ALL SPLICES SHALL BE CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.
- 4.8 ALL REINFORCING MARKED "CONTINUOUS" SHALL BE SPLICED WITH CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.
- 4.9 PROVIDE CORNER BARS AT ALL CORNERS OF CONTINUOUS REINFORCING IN FOOTINGS, SLABS OR WALLS. CORNER BARS SHALL BE LONG ENOUGH TO PROVIDE A CLASS "B" LAP SPLICE OF REINFORCING BARS.
- 4.10 CONCRETE COVERAGE OF REINFORCEMENT, UNLESS NOTED:

5.0 POST-TENSIONING

- 5.1 STRESSING OF TENDONS MAY COMMENCE WHEN CONCRETE HAS A COMPRESSIVE STRENGTH EQUAL TO 75% OF THE SPECIFIED 28 DAY COMPRESSIVE STRENGTH.
- 5.2 POST-TENSIONING TENDONS: UNBONDED, MONO-STRAND TENDON SYSTEM. LOW RELAXATION STRANDS SHALL CONFORM TO ASTM A416, LATEST REVISION, WITH A GUARANTEED MINIMUM ULTIMATE STRENGTH OF 270,000 PSI.
- 5.3 TENDON DIAMETER
SLAB TENDONS-----0.5" DIAMETER
- 5.4 DRILLED CONCRETE ANCHORS, POWER DRIVEN ANCHORS AND CORING OF SLABS WILL NOT BE PERMITTED WITHOUT CONSENT OF THE STRUCTURAL ENGINEER. ALL OPENINGS AND/OR SLEEVES MUST BE SHOWN ON THE SHOP DRAWINGS. ANY ADDITIONAL OPENINGS NOT SHOWN ON THE APPROVED DRAWINGS WILL REQUIRE APPROVAL FROM THE STRUCTURAL ENGINEER PRIOR TO PLACEMENT.
- 5.5 THE POST-TENSIONING SUPPLIER SHALL DESIGN AND FURNISH ALL ADDITIONAL REINFORCING BARS REQUIRED FOR SUPPORT OF TENDONS AND ANCHORAGES AND TO RESIST BURSTING, SPLITTING, AND SPALLING INDUCED BY TENDON ANCHORAGES. SHIFTING OF BEAM STIRRUPS FOR TENDON SUPPORT WILL NOT BE ALLOWED.
- 5.6 THE POST-TENSIONING SUPPLIER SHALL SUBMIT TO THE ENGINEER, FOR RECORD, CALCULATIONS TO SUBSTANTIATE THE STRESSING PROCEDURE. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
- 5.7 STRESSING RECORDS: STRESSING OPERATIONS SHALL BE OBSERVED BY THE TESTING LABORATORY. A RECORD OF ALL STRESSING FORCES AND FIELD MEASURED ELONGATIONS SHALL BE SUBMITTED TO THE ENGINEER WITHIN 24 HOURS.
- 5.8 CUT TENDONS AND PACK ALL POST-TENSIONING POCKETS WITH NON-SHRINK GROUT AFTER REVIEW AND ACCEPTANCE OF STRESSING RECORDS.
- 5.9 CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE ENGINEER DETAILED CALCULATIONS AND PROCEDURES FOR THE REMEDIAL WORK REQUIRED.

6.0 STRUCTURAL STEEL

- 6.1 FABRICATE AND ERECT ALL STRUCTURAL STEEL IN ACCORDANCE WITH AISC "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS". FABRICATOR SHALL BE QUALIFIED PER AISC QUALITY CERTIFICATION PROGRAM AND DESIGNATED AN AISC-CERTIFIED PLANT, CATEGORY STD.
- 6.2 THE STEEL FRAME IS "NON-SELF-SUPPORTING". ADEQUATE TEMPORARY SUPPORT MUST BE PROVIDED BY THE CONTRACTOR UNTIL REQUIRED CONNECTIONS OR ELEMENTS ARE IN PLACE.
- 6.3 STRUCTURAL STEEL: ASTM A992 FOR WIDE FLANGE BEAMS AND COLUMNS; A36 FOR S, M AND HP SHAPES AND CHANNELS; ASTM A36 FOR STIFFENER PLATES, BASE PLATES, COLUMN CAP PLATES, BEAM CONNECTION PLATES AND STEEL ANGLES.
- 6.4 WELDED CONNECTIONS: E70XX ELECTRODES, MINIMUM SIZE FILLET WELD 3/16". WELDING QUALIFICATION, PROCEDURES AND PERSONNEL SHALL BE CERTIFIED ACCORDING TO AWS D1.1, THE STRUCTURAL WELDING CODE - STEEL.
- 6.5 ANCHOR BOLTS: ASTM A307.
- 6.6 CONNECTIONS:
A. BEARING TYPE A325-IN IN ACCORDANCE WITH RCSC (LRFD OR ASD VERSION) "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". BOLTS THROUGH 4" WIDE BEAM FLANGES SHALL BE 5/8" DIAMETER. OTHER BOLTS SHALL BE 3/4" DIAMETER.
B. USE SNIG TIGHT BEARING CONNECTIONS FOR ALL BOLTED CONNECTIONS.
C. BOLTS SHOWN IN SECTIONS AND DETAILS ARE A SCHEMATIC INDICATION THAT BOLTS MAY BE USED. ACTUAL NUMBER, UNLESS SPECIFIED, TO BE IN ACCORDANCE WITH AISC.
D. ALL STRUCTURAL STEEL CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE DESIGNED TO RESIST FORCES INDICATED, BY THE CONTRACTOR.

1. WHERE BEAM REACTIONS ARE SHOWN ON THE DRAWINGS, THE CONNECTIONS SHALL DEVELOP THE REACTIONS SHOWN. WHERE CONNECTIONS ARE SUBJECT TO ECCENTRICITY, SUCH ECCENTRICITY SHALL BE TAKEN INTO ACCOUNT WHEN DESIGNING AND DETAILING THE CONNECTION.
2. WHERE BEAM REACTIONS OR DESIGN FORCES ARE NOT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL DESIGN THE CONNECTIONS TO SUPPORT A REACTION EQUAL TO ONE-HALF THE TOTAL UNIFORM LOAD CAPACITY FROM THE ASD TABLE OF ALLOWABLE UNIFORM LOADS ON BEAMS, MULTIPLIED BY A FACTOR OF 1.2 FOR GIVEN SHAPE, SPAN, AND GRADE OF STEEL.

E. DESIGN CALCULATIONS FOR THE CONNECTIONS DESIGNED BY THE CONTRACTOR SHALL BE SUBMITTED FOR THE FILES OF THE ARCHITECT AND ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. SHOP DRAWINGS CONTAINING CONNECTIONS FOR WHICH CALCULATIONS HAVE NOT BEEN RECEIVED WILL BE RETURNED UNCHECKED AS AN INCOMPLETE SUBMITTAL.
- 6.7 ALL STRUCTURAL STEEL, INCLUDING EXPOSED BOLTS, NUTS, WASHERS OR ANCHOR RODS, EXPOSED TO WEATHER IN THE FINAL CONFIGURATION OF THE STRUCTURE SHALL BE HOT-DIP GALVANIZED, UNLESS NOTED. PER ASTM A 123/A 123M, VENT HOLES SHALL BE FILLED AND GROUND SMOOTH AFTER GALVANIZING. DAMAGE TO GALVANIZING SHALL BE PAINTED WITH GALVANIZING REPAIR PAINT, SSPC-PAINT 20. SEE 051200 SPECIFICATIONS FOR PAINT REQUIREMENTS FOR STEEL THAT IS GALVANIZED AND PAINTED.
- 6.8 STEEL STAIRS AND ASSOCIATED EMBEDS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE DESIGNED TO RESIST THE PROJECT DESIGN LOADS INDICATED ABOVE, BY THE CONTRACTOR, UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. STAIRS SHALL BE DESIGNED IN ACCORDANCE WITH THE MAMM METAL STAIR MANUAL AND AISC, AND AS LISTED BELOW. CALCULATIONS SHALL BEAR THE SEAL OF THE PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED AND SHALL BE INCLUDED WITH THE STAIR SHOP DRAWINGS.
A. STAIR FRAMING SHALL BE CAPABLE OF WITHSTANDING STRESSES RESULTING FROM RAILING LOADS IN ADDITION TO LOADS SPECIFIED ABOVE.
B. LIMIT DEFLECTION OF TREADS, PLATFORMS, AND FRAMING MEMBERS TO L/360 OR 1/4 INCH, WHICHEVER IS LESS.
C. DESIGN OF STAIR FRAMING SHALL ALSO COMPLY WITH AISC'S "STEEL DESIGN GUIDE SERIES 11"; FLOOR VIBRATIONS DUE TO HUMAN ACTIVITY."
- 6.9 ALL HANDRAILS, GUARDRAILS, AND EMBEDS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE DESIGNED IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE NOTED ABOVE, BY THE CONTRACTOR, UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. CALCULATIONS SHALL BEAR THE SEAL OF THE PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED AND SHALL BE SUBMITTED FOR THE FILES OF THE ARCHITECT AND SHALL BE INCLUDED WITH THE SHOP DRAWINGS.

7.0 STEEL DECK

- 7.1 DECK PROPERTIES AND ATTACHMENTS SHALL BE IN ACCORDANCE WITH THE STEEL DECK INSTITUTE.
- 7.2 FLOOR DECK: 3 1/2" THICK CONCRETE SLAB ON NON-COMPOSITE STEEL FLOOR DECK, 18 GAGE, 2" DEEP (5-1/2" TOTAL SLAB THICKNESS), REINFORCED WITH 4x4 W2.9/W2.9 WWR DRAPPED, 3" CLEAR COVER TO TOP OF SLAB AT SUPPORTS AND FLAT ON THE TOP OF THE DECK AT MID-SPAN BETWEEN SUPPORTS. STEEL DECK SHALL BE FASTENED TO SUPPORTS WITH 5/8" PUDDLE WELDS AT 6" O/C AT ALL SUPPORTS.
- 7.3 WELDED CONNECTIONS: E60XX ELECTRODES; WELDING QUALIFICATION, PROCEDURES AND PERSONNEL SHALL BE CERTIFIED ACCORDING TO AWS D1.3, THE STRUCTURAL WELDING CODE - SHEET STEEL.
- 7.4 NO CONDUIT OR PIPE SHALL BE CAST IN THE SLAB WITHOUT THE WRITTEN APPROVAL OF STRUCTURAL DESIGN GROUP.

8.0 WOOD CONSTRUCTION

- 8.1 ALL SAW LUMBER IN CONTACT WITH SOIL, MASONRY OR CONCRETE, OR EXPOSED TO WEATHER TO HAVE A PRESERVATIVE TREATMENT IN ACCORDANCE WITH AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) STANDARD U1 (CURRENT EDITION).
- 8.2 CUT ENDS OR ALL TREATED LUMBER SHALL BE FIELD TREATED WITH AN APPROVED PRESERVATIVE IN ACCORDANCE WITH THE TREATMENT MANUFACTURERS INSTRUCTIONS AND AWPA STANDARD M4-08.
- 8.3 ALL LUMBER SHALL BE KILN DRIED TO A MAXIMUM MOISTURE CONTENT OF 19 PERCENT, INCLUDING PRESERVATIVE TREATED LUMBER.
- 8.4 ALL SCREWS, BOLTS, AND NAILS FOR USE WITH PRESERVATIVE TREATED WOOD SHALL BE HOT-DIPPED ZINC-COATED GALVANIZED STEEL OR STAINLESS STEEL. FASTENERS TO BE HOT-DIPPED GALVANIZED SHALL MEET THE REQUIREMENTS OF ASTM A 153, CLASS D FOR 3/8" DIAMETER OR SMALLER AND CLASS C FOR FASTENERS WITH DIAMETERS OVER 3/8".
- 8.5 FASTENERS OTHER THAN NAILS AND TITEN RIVETS SHALL BE PERMITTED TO BE OF MECHANICALLY DEPOSITED ZINC-COATED STEEL WITH COATING WEIGHTS IN ACCORDANCE WITH ASTM B 695, CLASS SS, MINIMUM.
- 8.6 METAL CONNECTORS SHOWN IN DOCUMENTS ARE SIMPSON STRONG TIE CONNECTORS. SUBSTITUTION WITH EQUAL CONNECTORS BY OTHER MANUFACTURERS IS ACCEPTABLE.
- 8.7 ALL HARDWARE (JOIST HANGERS, ETC.) FOR USE WITH PRESERVATIVE TREATED WOOD SHALL BE GALVANIZED OR SHALL BE STAINLESS STEEL. HARDWARE TO BE HOT-DIPPED PRIOR TO FABRICATION SHALL MEET ASTM A 653, G-185 COATING. HARDWARE TO BE HOT-DIPPED AFTER FABRICATION SHALL MEET ASTM A 123.
- 8.8 FASTENER AND HARDWARE SELECTION: HOT-DIPPED GALVANIZED MATERIAL SHALL NOT BE USED IN CONTACT WITH STAINLESS STEEL MATERIAL.
- 8.9 ALL NAIL SIZES INDICATED IN DOCUMENTS ARE BASED ON COMMON WIRE NAILS. SUBSTITUTION OF DIFFERENT STYLE NAILS IS ACCEPTABLE BASED ON ACTUAL DIAMETER ONLY.
- 8.10 AT A MINIMUM, ALL WOOD FRAMING CONNECTIONS TO COMPLY WITH "TABLE 2304.9.1- FASTENING SCHEDULE" OF THE INTERNATIONAL BUILDING CODE.
a. CLEARANCE HOLE FOR SHANK WILL BE SAME DIAMETER AS SHANK AND HAVE THE SAME DEPTH OF PENETRATION AS THE LENGTH OF THE UNTHREADED SHANK.
b. LEAD HOLE FOR THREADED PORTION SHALL HAVE A DIAMETER OF 66% OF SHANK AND A LENGTH EQUAL TO OR GREATER THAN THE LENGTH OF THE THREADED PORTION.
c. THE THREADED PORTION OF THE LAG SCREW SHALL BE INSERTED BY TURNING WITH A WRENCH, NOT BY DRIVING WITH A HAMMER. SOAP OR OTHER LUBRICANT SHALL BE USED ON THE LAG SCREW IN THE LEAD HOLES TO FACILITATE INSERTION AND PREVENT DAMAGE OF THE LAG SCREW.
- 8.11 WOOD SILL PLATES (NON-SPEAR WALLS): ANCHOR TO FOUNDATION WITH 1/4" DIAMETER X 7" EMBED ANCHOR BOLTS AT 6'-0" MAX SPACING OR 18"x18" TITEN STRONG TIE ANCHORS WITH 2" EMBED STANDARD GALVANIZED WASHERS.
- 8.12 WOOD SILL PLATES (PART OF SHEAR WALLS): ANCHOR TO FOUNDATION WITH 5/8" DIAMETER X 7" EMBED ANCHOR BOLTS AT 32" MAX SPACING, PROVIDE 18"x3"x3" SQUARE GALVANIZED PLATE WASHERS.
- 8.13 LEAD HOLES FOR LAG SCREWS
a. CLEARANCE HOLE FOR SHANK WILL BE SAME DIAMETER AS SHANK AND HAVE THE SAME DEPTH OF PENETRATION AS THE LENGTH OF THE UNTHREADED SHANK.
b. LEAD HOLE FOR THREADED PORTION SHALL HAVE A DIAMETER OF 66% OF SHANK AND A LENGTH EQUAL TO OR GREATER THAN THE LENGTH OF THE THREADED PORTION.
c. THE THREADED PORTION OF THE LAG SCREW SHALL BE INSERTED BY TURNING WITH A WRENCH, NOT BY DRIVING WITH A HAMMER. SOAP OR OTHER LUBRICANT SHALL BE USED ON THE LAG SCREW IN THE LEAD HOLES TO FACILITATE INSERTION AND PREVENT DAMAGE OF THE LAG SCREW.
- 8.14 DESIGN, FABRICATE AND ERECT WOOD TRUSSES IN ACCORDANCE WITH THE "DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES" OF THE TRUSS PLATE INSTITUTE. TRUSS ERECTION PLANS AND CALCULATIONS DESIGNED BY THE CONTRACTOR SHALL BE SUBMITTED FOR THE REVIEW OF THE STRUCTURAL ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
- 8.15 TRUSS MANUFACTURER SHALL DESIGN FOR THE FOLLOWING SUPERIMPOSED LOADS:
ROOF TOP CHORD DEAD LOAD-----10 PSF
ROOF BOTTOM CHORD DEAD LOAD-----10 PSF
ROOF TOP CHORD LIVE LOAD-----20 PSF
ROOF BOTTOM CHORD LIVE LOAD-----20 PSF
FLOOR TOP CHORD DEAD LOAD-----15 PSF
FLOOR BOTTOM CHORD DEAD LOAD-----15 PSF
FLOOR TOP CHORD LIVE LOAD-----40 PSF
FLOOR TRUSS MAXIMUM LIVE LOAD DEFLECTION-----L/480

- 8.16 DESIGN WOOD TRUSSES TO RESIST THE WIND UPLIFT LOADING FROM THE COMPONENT AND CLADDING WIND LOAD TABLE PROVIDED IN THE TYPICAL DETAILS.
- 8.17 IN ADDITION TO THE ABOVE LOADS, WOOD TRUSSES SHALL BE DESIGNED FOR CONCENTRATED LOADS HUNG FROM OR SUPPORTED ON TRUSSES. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR LOADING INFORMATION AND LOCATION. LOADING AS REQUIRED BY OTHER SUBCONTRACTORS, SUCH AS FIRE PROTECTION, SHALL BE COORDINATED BY THE GENERAL CONTRACTOR.
- 8.18 TRUSS DESIGNER DESIGN FLOOR TRUSSES FOR A MAXIMUM TOTAL HANGING DEAD LOAD OF 200 LBS PER TRUSS (ADD LOAD). LOAD MAY BE APPLIED AT ANY POINT ALONG THE TOP OR BOTTOM CHORD. GC COORDINATE HANGER SPACINGS AS REQUIRED.
- 8.19 ALL TRUSS TO TRUSS CONNECTIONS SHALL BE DESIGNED BY THE TRUSS MANUFACTURER FOR THE LOADS INDICATED.
- 8.20 FLOOR TRUSS MANUFACTURER PROVIDE 21" MINIMUM WIDTH DOCT DRIVING IN WEB AT TRUSS MIDSPAN. COORDINATE WITH MECHANICAL FOR WIDTH AND LOCATION OF DOCT RUNS.
- 8.21 INSTALL 2x6 STRINGBACKS AT FLOOR TRUSS 1/3 POINTS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 8.22 ALL TEMPORARY AND PERMANENT BRACING MEMBERS AND CONNECTIONS REQUIRED FOR WOOD TRUSSES SHALL BE DESIGNED AND DETAILED ON THE WOOD TRUSS MANUFACTURER'S ERECTION PLANS. BRACING MEMBERS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR ACCORDING TO THE TRUSS MANUFACTURER'S ERECTION PLANS AND "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING, AND BRACING OF METAL PLATE CONNECTED WOOD TRUSSES" BY BC51, 2008.
- 8.23 TEMPORARY BRACING SHALL NOT IMPOSE ANY FORCE ON THE SUPPORTING STRUCTURE. PERMANENT BRACING FORCES SHALL BE TRANSFERRED TO THE ROOF DIAPHRAGM BY THE BRACING DESIGN PROVIDED BY THE TRUSS MANUFACTURER.
- 8.24 ROOF SHEATHING: 1/2" APA STRUCTURAL I OR II RATED SHEATHING EXPOSURE 1, WITH PLY CLIPS AT ALL UNSUPPORTED EDGES PER THE MANUFACTURER'S RECOMMENDATIONS. PANEL IDENTIFICATION INDEX 32/16. LONG DIMENSION OF PANEL PERPENDICULAR TO SUPPORTS.
- 8.25 ROOF SHEATHING NAILING, UNLESS NOTED: 8d NAILS AT 6 INCHES AT ALL FOUR PANEL EDGES AND 12 INCHES AT INTERMEDIATE SUPPORTS.
- 8.26 FLOOR SHEATHING: 3/4" PLYWOOD APA STRUCTURAL 240 LONG RATED SHEATHING EXPOSURE I, TONGUE AND GROOVE EDGES. PANEL IDENTIFICATION INDEX 48/24. LONG DIMENSION OF PANEL PERPENDICULAR TO SUPPORTS AND 12 INCHES AT INTERMEDIATE SUPPORTS.
- 8.27 PLYWOOD, GYPSUM SHEATHING AND WALLBOARD, NOT PART OF SHEAR WALLS, SHALL BE ATTACHED TO STUDS IN ACCORDANCE WITH "TABLE 2304.9.1- FASTENING SCHEDULE" OF THE INTERNATIONAL BUILDING CODE.
- 8.28 WOOD PANEL SHEAR NAILS: 15/32" PLYWOOD OR OSB, UNLESS NOTED. APA RATED STRUCTURAL I SHEATHING EXPOSURE 1. LONG DIMENSION OF PANEL PARALLEL TO STUDS. ALL PLYWOOD EDGES SHALL BE BACKED WITH TWO-INCH NOMINAL OR WIDER FRAMING. SEE DETAILS.
- 8.29 WOOD PANEL SHEAR NAILING: SEE TYPICAL DETAILS ON SHEET S9.
- 8.30 MANUFACTURED WOOD BEAMS: MICRO-LAMINATED WOOD BEAMS TO BE AS MANUFACTURED BY LEVEL OF BOISE, IDAHO, OR APPROVED EQUAL, AND HAVE AN ALLOWABLE BENDING STRESS: (F_b) = 2600 PSI OR GREATER FOR 12 INCH DEPTH, AN ALLOWABLE SHEAR PARALLEL TO GRAIN (F_v) = 285 PSI OR GREATER AND A MODULUS OF ELASTICITY (E) = 2,000,000 PSI OR GREATER. FOR DEPTHS GREATER THAN 12 INCHES, ADJUST (F_b) BY (12/d)^{0.136}. SIZES ARE SHOWN ON THE PLANS AND DETAILS.
- 8.31 BUILT UP BEAMS - MANUFACTURED WOOD BEAMS: MULTIPLE MICROLAM AS TO BE FASTENED TOGETHER WITH A MINIMUM OF 2 ROWS OF 16d NAILS AT 12 INCHES (STAGGERED); NAILS TO BE SPACED 3 INCHES FROM THE TOP AND BOTTOM OF BEAMS.
- 8.32 AT ALL ROOF MICROLAM AND 2x HEADER BEARINGS, PROVIDE 2x STUD DIRECTLY UNDER BEARING. AT 2x FLOOR HEADERS, PROVIDE (2) 2x STUDS DIRECTLY UNDER BEARING. AT MICROLAM FLOOR HEADERS, PROVIDE (3) 2x STUDS DIRECTLY UNDER BEARING. MAINTAIN STUD CONTINUIITY TO FOUNDATION. LOCATE BETWEEN DOUBLE TOP PLATE AND BOTTOM PLATE AT FLOOR FRAMING LEVEL.
- 8.33 FLOOR JOISTS AND BEAMS SHALL BE LATERALLY BRACED AT MAXIMUM INTERVALS OF 8'-0" BY SOLID BRACING OR TRANSVERSE BEAMS AND THE ENDS AT POINTS OF BRACING SHALL BE LATERALLY SUPPORTED TO PREVENT ROTATION.
- 8.34 WINDOW AND DOOR HEADERS ARE TO BE (2) 2x10 UNLESS NOTED.
- 8.35 BUILT UP BEAMS - DIMENSIONED LUMBER: NAIL INDIVIDUAL PILES TOGETHER WITH TWO ROWS OF 10d NAILS AT 16" STAGGERED.
- 8.36 WOOD STUDS FOR LOAD BEARING WALLS: SEE SCHEDULE ON SHEET S9.
- 8.37 WOOD FRAMING MEMBERS: #2 SOUTHERN PINE UNLESS NOTED.
- 8.38 VERTICAL STUDS INTERRUPTED BY WALL OPENINGS SHALL BE LOCATED EQUALLY ON EACH SIDE OF THE OPENING. SIMILAR STUDS SHALL BE LOCATED BETWEEN THE DOUBLE TOP PLATE AND BOTTOM PLATE AT THE FLOOR FRAMING LEVEL.
- 8.39 SHEETS OF DRYWALL SHOULD BE LAID FLAT ON THE FLOOR. MAXIMUM HEIGHT OF DRYWALL SHOULD BE 10'. SHOULD DRUMS SLEEPERS BE USED TO KEEP THE DRYWALL OFF THE FLOOR SHEATHING. A MINIMUM OF FOUR SETS OF SLEEPERS SHOULD BE USED. LONG DIRECTION OF DRYWALL MUST BE PARALLEL TO THE TRUSSES WITH SLEEPERS BEING PLACED PERPENDICULAR TO THE TRUSSES.

9.0 POST-INSTALLED REINFORCING, ANCHORS AND FASTENERS

- 9.1 POST-INSTALLED ANCHORS AND/OR REINFORCING SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER OF RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS AND/OR REINFORCING IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS AND/OR REINFORCING.
- 9.2 THE BELOW PRODUCTS ARE THE DESIGN BASIS FOR THIS PROJECT. PRODUCT DIAMETER AND EMBEDMENT SHALL BE SHOWN IN THE DETAILS.
A. FOR ANCHORS INTO CONCRETE
1. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 308.2 AND ICC-ES ESR-1303 (ACI)308 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. PRE-APPROVED PRODUCTS INCLUDE:
a. SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-2713)
b. SIMPSON STRONG-TIE "STRONG-BOLT 2" (ICC-ES ESR-3037)
c. SIMPSON STRONG-TIE "TOMO-CUT" (ICC-ES ESR-2705)
d. SIMPSON STRONG-TIE "TITEN-HD ROD HANGER" (ICC-ES ESR-2713)
e. HILTI MWK HUS-EZ AND MWK HUS E2-Z SCREW ANCHORS (ICC ESR-3027)
f. HILTI MWK BOLT-TZ EXPANSION ANCHORS (ICC ESR-1917)
g. HILTI HIT-ROD BOLT 3 EXPANSION ANCHORS (UNCRACKED CONCRETE ONLY) (ICC ESR-2302)
h. HILTI HD UNDERCUT ANCHORS (ICC ESR 1546)
i. HILTI HSL-3 EXPANSION ANCHORS (ICC ESR 1545)
2. ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 308.2 AND ICC-ES ESR-2308. BOND STRENGTH HAS BEEN BASED ON ACI 308.2.4 TEMPERATURE CATEGORY B WITH INSTALLATIONS INTO DRY HOLES DRILLED USING A CARBIDE DRILL BIT INTO CRACKED CONCRETE THAT HAS CURED FOR AT LEAST 28 DAYS. ADHESIVE ANCHORS REQUIRING CERTIFIED INSTALLATIONS SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER PER ACI 318-11 D.9.2.2. INSTALLATIONS REQUIRING CERTIFIED INSTALLERS SHALL BE INSPECTED PER ACI 318-11 D.9.2.4. PRE-APPROVED PRODUCTS INCLUDE:
a. SIMPSON STRONG-TIE "AT-XP" (DPMO-UES ESR-263)
b. SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508)
c. SIMPSON STRONG-TIE "ET-HP" (ICC-ES ESR-3372)
d. HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HIT-Z ROD (ICC ESR-3187)
e. HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT SYSTEM WITH HAS-E THREADED ROD OR CONTINUOUSLY REFORMED REBAR PER ICC ESR-3187
f. HILTI HIT-RE 500-SD EPOXY ADHESIVE ANCHORING SYSTEM WITH HAS-E THREADED ROD OR CONTINUOUSLY DEFORMED REBAR (ICC ESR-2322) FOR SLOW CURE APPLICATIONS
3. POWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED PRODUCTS INCLUDE:
a. SIMPSON STRONG-TIE "GAS ACTUATED PINS" (ICC-ES ESR-2811)
b. SIMPSON STRONG-TIE "POWDER ACTUATED PINS" (ICC-ES ESR-2138)
c. HILTI "UNIVERSAL KNURLED SHANK FASTENERS" X-U (ICC ESR-2269)
- 9.3 REFER TO THE PROJECT BUILDING CODE AND/OR EVALUATION REPORT FOR SPECIAL INSPECTIONS AND PROOF LOAD REQUIREMENTS.
- 9.4 SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE LISTED KRELOMAY BE SUBMITTED BY THE CONTRACTOR TO THE EOR FOR REVIEW. SUBSTITUTIONS WILL ONLY BE CONSIDERED FOR PRODUCTS HAVING A RESEARCH REPORT RECOGNIZING THE PRODUCT FOR THE APPROPRIATE APPLICATION UNDER THE PROJECT BUILDING CODE. SUBSTITUTION REQUESTS SHALL INCLUDE CALCULATIONS PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATE THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE EQUIVALENT ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE.

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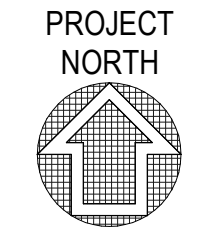
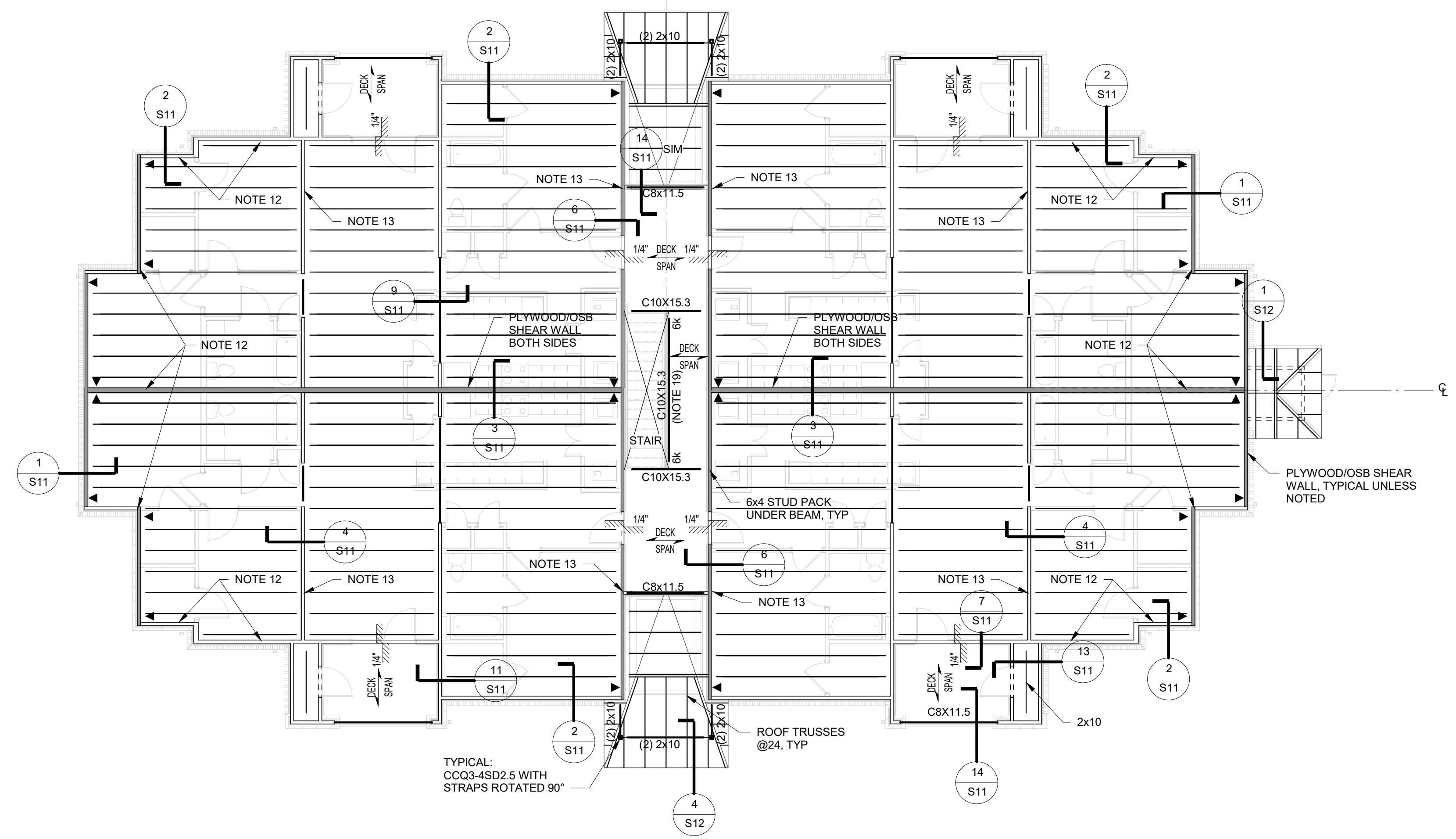
PROJECT
The Park at Barton

900 E Barton Ave.
West Memphis, AR 72301

SHEET NUMBER

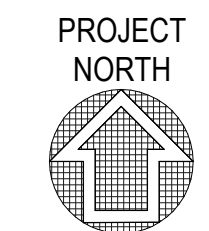
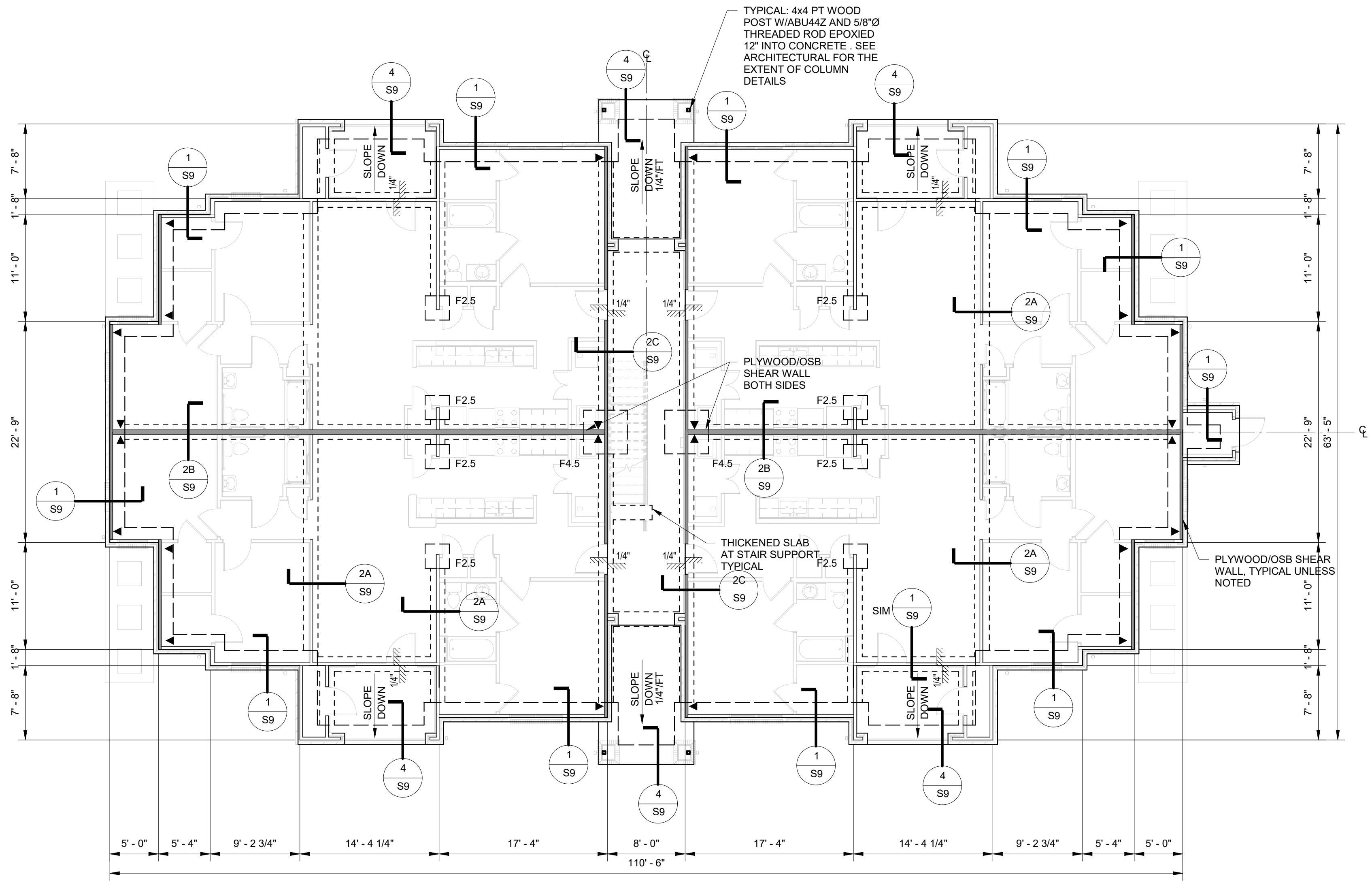
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BUILDING A - LEVEL 2 FRAMING PLAN

- 1/8" = 1'-0"
- FLOOR SYSTEM: PREFABRICATED 4x2 16" FLOOR TRUSSES AT 24", UNLESS NOTED.
 - FLOOR SHEATHING: 3/4" PLYWOOD. SEE GENERAL NOTES. GLUE AND NAIL TO TRUSSES.
 - FINISH SUB-FLOOR ELEVATION 10'-0 3/8" ABOVE FIRST FINISH FLOOR.
 - BALCONY ELEVATION 10'-7 1/4" ABOVE FIRST FINISH FLOOR. BREEZEWAY ELEVATION 10'-7 1/4" ABOVE FIRST FINISH FLOOR.
 - FLOOR TRUSS BEARING ELEVATION 9'-1 5/8" ABOVE FIRST FINISH FLOOR.
 - POSITION TRUSSES TO AVOID HVAC UNITS AND DUCTS.
 - DIMENSIONS SHOWN ARE TO FACE OF STUD.
 - DETAILS SHOWN ARE TYPICAL FOR THE ENTIRE BUILDING.
 - ▲ DENOTES ANCHOR AT END OF SHEARWALL. FOR DETAIL SEE SHEET S8.
 - DENOTES SHEAR WALL. SEE SHEET S8 FOR SHEAR WALL DETAILS.
 - PROVIDE 18" WIDE x 12" DEEP OPENING ON MECHANICAL CLOSET. FOR LOCATION, SEE ARCHITECTURAL.
 - PROVIDE (2) MSTC10 STRAPS TO DOUBLE STUDS SUPPORTING GIRDER TRUSS ABOVE. CENTER ON FLOOR FRAMING EXTEND TO DOUBLE STUDS BELOW. GC OPTION TO USE (2) FSC ANCHORS.
 - PROVIDE HDU4 ANCHORS INTO TRIPLE 2x4 STUDS ABOVE AND BELOW FLOOR FRAMING.
 - UNLESS NOTED, PROVIDE DOUBLE 2x STUDS UNDER ALL BEAM BEARING POINTS.
 - BUILDING SYMMETRICAL ABOUT CENTERLINES, EXCEPT FOR PUMP ROOM.
 - BALCONY AND BREEZEWAY FRAMING: 3-1/2" CONCRETE ON 2.0C18 GALVANIZED NON-COMPOSITE FORM DECK (5-1/2" TOTAL SLAB THICKNESS). REINFORCE WITH 4x4-W2.9xW2.9 WWR DRAPED AND FIBER MESH. PROVIDE C8x11.5 CHANNEL FRAMING AT PERIMETER. UNLESS NOTED. ALL FRAMING TO BE HOT DIPPED GALVANIZED AFTER FABRICATION. REPAIR ANY BREAKS IN GALVANIZING WITH ZINC RICH PRIMER PRIOR TO PAINTING.
 - STEEL PAN STAIRS TO BE DESIGNED BY THE STEEL FABRICATOR, TYPICAL.
 - BEAM REACTIONS ARE INDICATED AT ENDS OF BEAMS AS "X" WHERE "X" IS THE MAGNITUDE OF THE WORKING LOAD SHEAR REACTION IN KIPS.
 - PROVIDE 1/4"x3"x5-1/2" BENT CLOSURE PLATE AT STAIR OPENING BEAMS, TYPICAL.



BUILDING A - LEVEL 1 FOUNDATION PLAN

- 1/8" = 1'-0"
- FINISHED FLOOR ELEVATION VARIES. SEE ARCHITECTURAL DRAWINGS.
 - SLAB CONSTRUCTION: 4" THICK, POST TENSIONED, CAST IN PLACE SLAB. SEE GENERAL NOTES.
 - DETAILS SHOWN ARE TYPICAL FOR THE ENTIRE BUILDING.
 - DIMENSIONS SHOWN ARE TO FACE OF STUD.
 - APPLY PLYWOOD/OSB SHEATHING TO ALL EXTERIOR WALLS FROM SLAB ON GRADE TO ROOF TRUSS BEARING.
 - DENOTES SHEAR WALL. SEE SHEET S8 FOR SHEAR WALL DETAILS.
 - ▲ DENOTES ANCHOR AT END OF SHEARWALL.
 - F2.5 DENOTES FOOTING 2'-6"x2'-6"x1'-0" DEEP REINFORCED WITH #5 EACH WAY BOTTOM. F4.5 DENOTES FOOTING 4'-6"x4'-6"x2'-0" DEEP REINFORCED WITH #5 EACH WAY TOP AND BOTTOM.
 - BUILDING SYMMETRICAL ABOUT CENTERLINES, EXCEPT FOR PUMP ROOM.

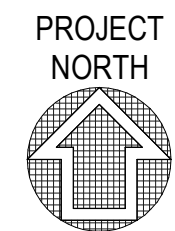
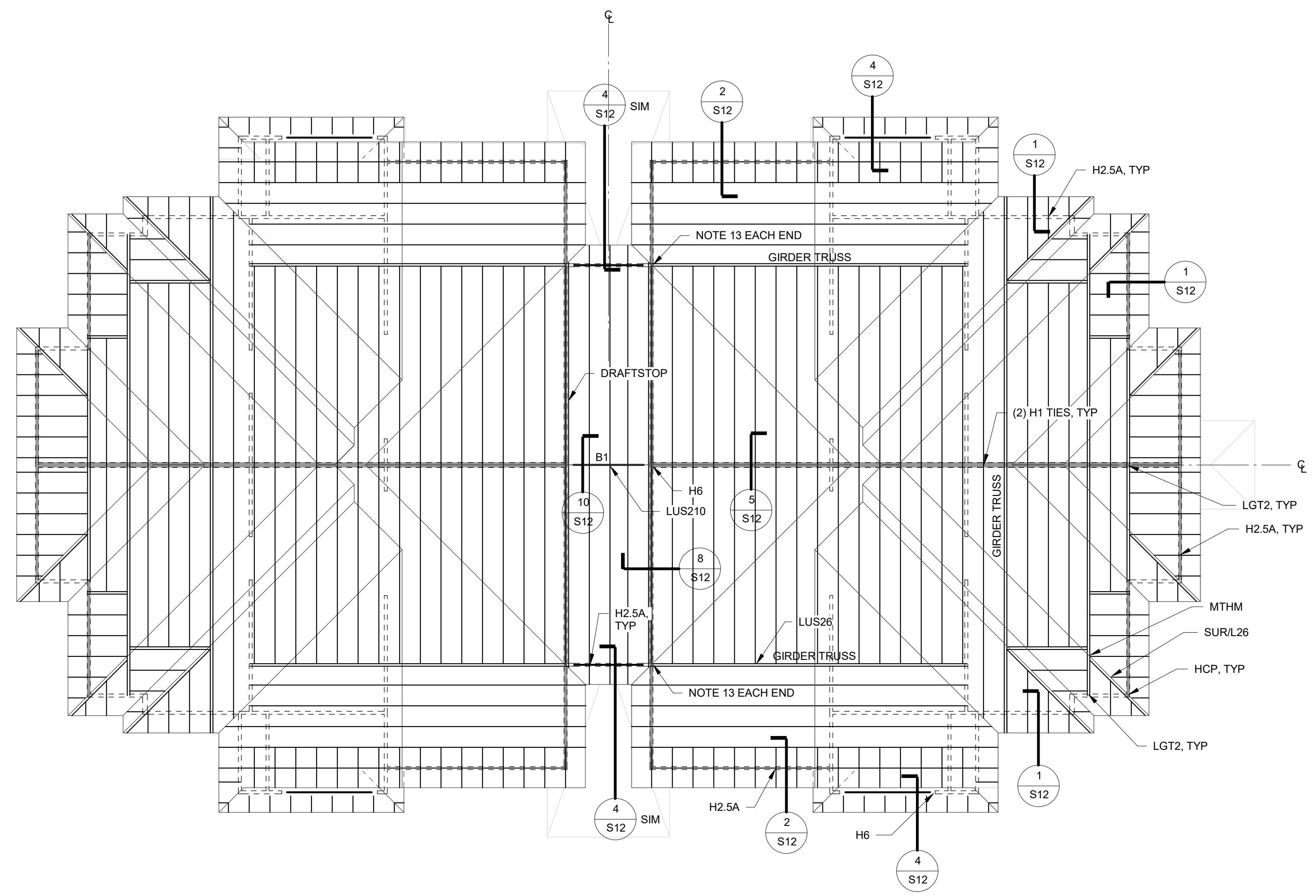
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 PROJECT
The Park at Barton

900 E Barton Ave.
 West Memphis, AR 72301

SHEET NUMBER
S2

CAD FILE NUMBER
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BUILDING A - ROOF FRAMING PLAN
 1/8" = 1'-0"

1. ROOF SYSTEM - PREFABRICATED ROOF TRUSSES AT 24". SEE GENERAL NOTES. TRUSS LAYOUTS AND PROFILES BY OTHERS.
2. ROOF SHEATHING: 1/2" OSB OR PLYWOOD. SEE GENERAL NOTES.
3. TRUSS BEARING ELEVATION 19'-8", ABOVE FIRST FINISH FLOOR.
4. DETAILS AND ANCHORS SHOWN ARE TYPICAL FOR ENTIRE BUILDING.
5. FOR DIMENSIONS SEE FOUNDATION PLAN.
6. ALL HORIZONTAL FRAMING LUMBER TO BE #2 SYP UNLESS NOTED, OR LUMBER WITH EQUAL OR GREATER STRUCTURAL PROPERTIES.
7. ALL EXTERIOR WALLS SHALL BE LOAD BEARING.
8. GIRDER TRUSSES SHALL NOT BEAR ABOVE OPENINGS IN WALL. PROVIDE DOUBLE STUDS AT BEARING.
9. AT DRAFTSTOP TRUSSES, PROVIDE VERTICAL MEMBERS AT 16" IN ADDITION TO REQUIRED WEB MEMBERS. FOR DOOR INFORMATION, SEE ARCHITECTURAL DRAWINGS. FOR LOCATION, SEE ARCHITECTURAL DRAWINGS.
10. 'B1' DENOTES (2) 1 3/4x9 1/4 LVL. PROVIDE DOUBLE STUD AND (2) H6 ANCHOR AT BEARING.
11. SHEARWALLS ARE SHOWN ON FLOOR BELOW. PROVIDE ADDITIONAL TRUSS ABOVE SHEARWALLS AND AT DRAFTSTOP AS REQUIRED.
12. AT VAULTED CEILING TRUSSES, PROVIDE CONTINUOUS BOTTOM CHORD FROM EXTERIOR BEARING WALL TO INTERIOR BEARING WALL. ATTACH MEMBER(S) TO BOTTOM CHORD AS REQUIRED TO FORM VAULTED CEILING. THIS IS DONE TO ELIMINATE ARCH EFFECT AND HORIZONTAL DISPLACEMENT.
13. PROVIDE TRIPLE STUDS AT TRUSS BEARING. PROVIDE MGT ANCHOR ABOVE DOUBLE TOP PLATE. PROVIDE HDL4 BELOW DOUBLE TOP PLATE.
14. BUILDING SYMMETRICAL ABOUT CENTERLINES.
15. EXTEND DRAFTSTOP SHEATHING TO ROOF SHEATHING.
16. PROVIDE DOUBLE STUDS AT MGT AND LGT ANCHORS.
17. PROVIDE (2) 2x FRAMING AT ATTIC ACCESS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

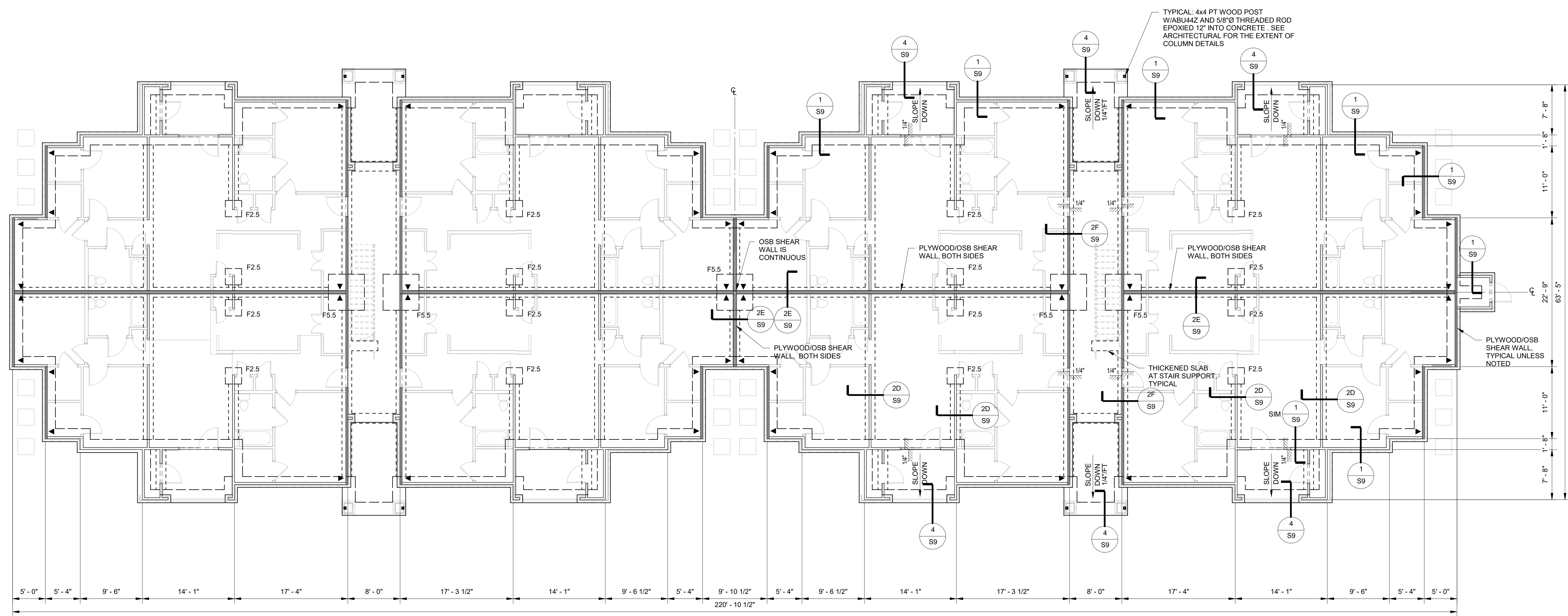
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TYPICAL: 4x4 PT WOOD POST
 W/ABU44Z AND 5/8"Ø THREADED ROD
 EPOXIED 12" INTO CONCRETE. SEE
 ARCHITECTURAL FOR THE EXTENT OF
 COLUMN DETAILS



BUILDING B - LEVEL 1 FOUNDATION PLAN

- 1/8" = 1'-0"
1. FINISHED FLOOR ELEVATION VARIES. SEE ARCHITECTURAL DRAWINGS.
 2. SLAB CONSTRUCTION: 4" THICK, POST TENSIONED, CAST IN PLACE SLAB. SEE GENERAL NOTES.
 3. DETAILS SHOWN ARE TYPICAL FOR THE ENTIRE BUILDING.
 4. DIMENSIONS SHOWN ARE TO FACE OF STUD.
 5. APPLY PLYWOOD/OSB SHEATHING TO ALL EXTERIOR WALLS FROM SLAB ON GRADE TO ROOF TRUSS BEARING.
 6. [Symbol] DENOTES SHEAR WALL. SEE SHEET S8 FOR SHEAR WALL DETAILS.
 7. [Symbol] DENOTES ANCHOR AT END OF SHEARWALL.
 8. F2.5 DENOTES FOOTING 2'-6"x2'-6"x1'-0" DEEP REINFORCED WITH #3S EACH WAY BOTTOM. F5.5 DENOTES FOOTING 5'-6"x5'-6"x2'-0" DEEP REINFORCED WITH #6S EACH WAY TOP AND BOTTOM.
 9. BUILDING SYMMETRICAL ABOUT CENTERLINES, EXCEPT FOR PUMP ROOM.

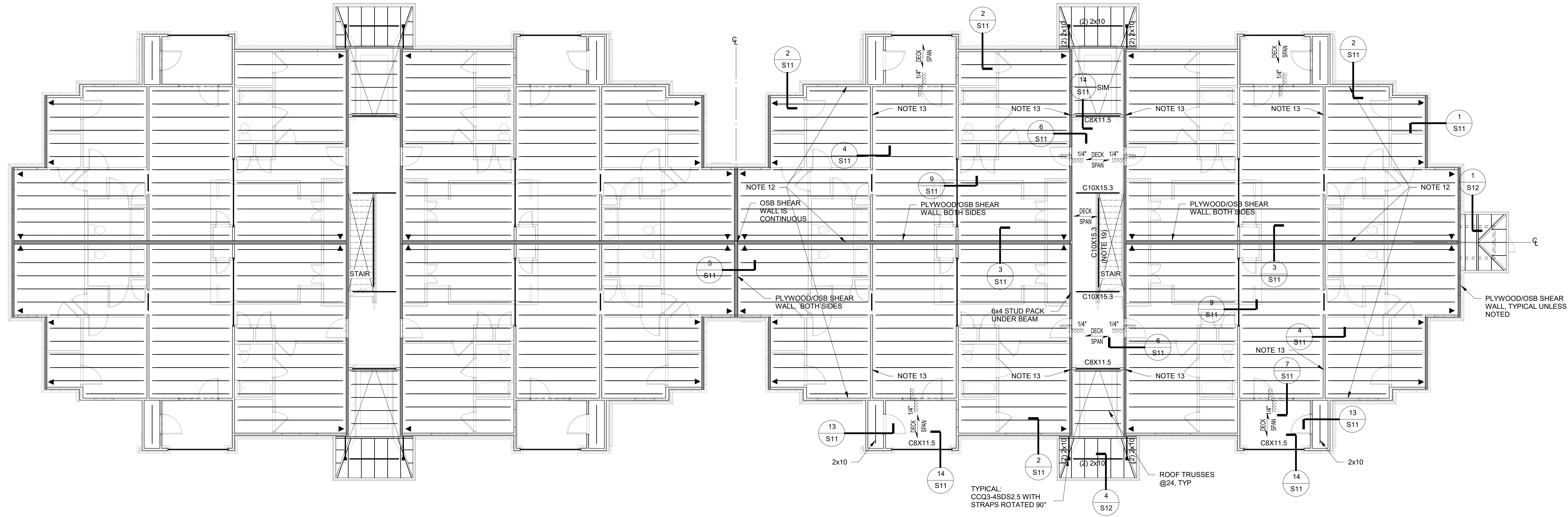
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BUILDING B - LEVEL 2 FRAMING PLAN

1/8" = 1'-0"

1. FLOOR SYSTEM: PREFABRICATED 4x2 16" FLOOR TRUSSES AT 24", UNLESS NOTED.
2. FLOOR SHEATHING: 3/4" PLYWOOD, SEE GENERAL NOTES. GLUE AND NAIL TO TRUSSES.
3. FINISH SUB-FLOOR ELEVATION 10'-6 3/8" ABOVE FIRST FINISH FLOOR.
4. BALCONY ELEVATION 10'-7 1/4" ABOVE FIRST FINISH FLOOR. BREEZEWAY ELEVATION 10'-7 1/4" ABOVE FIRST FINISH FLOOR.
5. FLOOR TRUSS BEARING ELEVATION 9'-1 5/8" ABOVE FIRST FINISH FLOOR.
6. POSITION TRUSSES TO AVOID HVAC UNITS AND DUCTS.
7. DIMENSIONS SHOWN ARE TO FACE OF STUD.
8. DETAILS SHOWN ARE TYPICAL FOR THE ENTIRE BUILDING.
9. ▲ DENOTES ANCHOR AT END OF SHEARWALL. FOR DETAIL SEE SHEET S8.
10. ■ DENOTES SHEAR WALL. SEE SHEET S8 FOR SHEAR WALL DETAILS.
11. PROVIDE 18" WIDE x 12" DEEP OPENING ON MECHANICAL CLOSET. FOR LOCATION, SEE ARCHITECTURAL.
12. PROVIDE (2) MISC40 STRAPS TO DOUBLE STUDS SUPPORTING GIRDER TRUSS ABOVE. CENTER ON FLOOR FRAMING EXTEND TO DOUBLE STUDS BELOW. GC OPTION TO USE (2) FSC ANCHORS.
13. PROVIDE HDU4 ANCHORS INTO TRIPLE 2x4 STUDS ABOVE AND BELOW FLOOR FRAMING.
14. UNLESS NOTED, PROVIDE DOUBLE 2x STUDS UNDER ALL BEAM BEARING POINTS.
15. BUILDING SYMMETRICAL ABOUT CENTERLINES, EXCEPT FOR PUMP ROOM.
16. BALCONY AND BREEZEWAY FRAMING: 3-1/2" CONCRETE ON 2.0C18 GALVANIZED NON-COMPOSITE FORM DECK (5-1/2" TOTAL SLAB THICKNESS), REINFORCE WITH 4x4-W2.9xW2.9 WWR DRAPED AND FIBER MESH. PROVIDE C8x11.5 CHANNEL FRAMING AT PERIMETER, UNLESS NOTED. ALL FRAMING TO BE HOT DIPPED GALVANIZED AFTER FABRICATION. REPAIR ANY BREAKS IN GALVANIZING WITH ZINC RICH PRIMER PRIOR TO PAINTING.
17. STEEL PAN STAIRS TO BE DESIGNED BY THE STEEL FABRICATOR. TYPICAL.
18. BEAM REACTIONS ARE INDICATED AT ENDS OF BEAMS AS "X" WHERE "X" IS THE MAGNITUDE OF THE WORKING LOAD SHEAR REACTION IN KIPS.
19. PROVIDE 1/4"x3"x5-1/2" BENT CLOSURE PLATE AT STAIR OPENING BEAMS, TYPICAL.

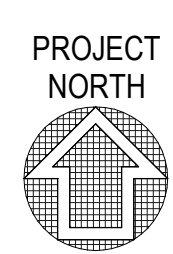
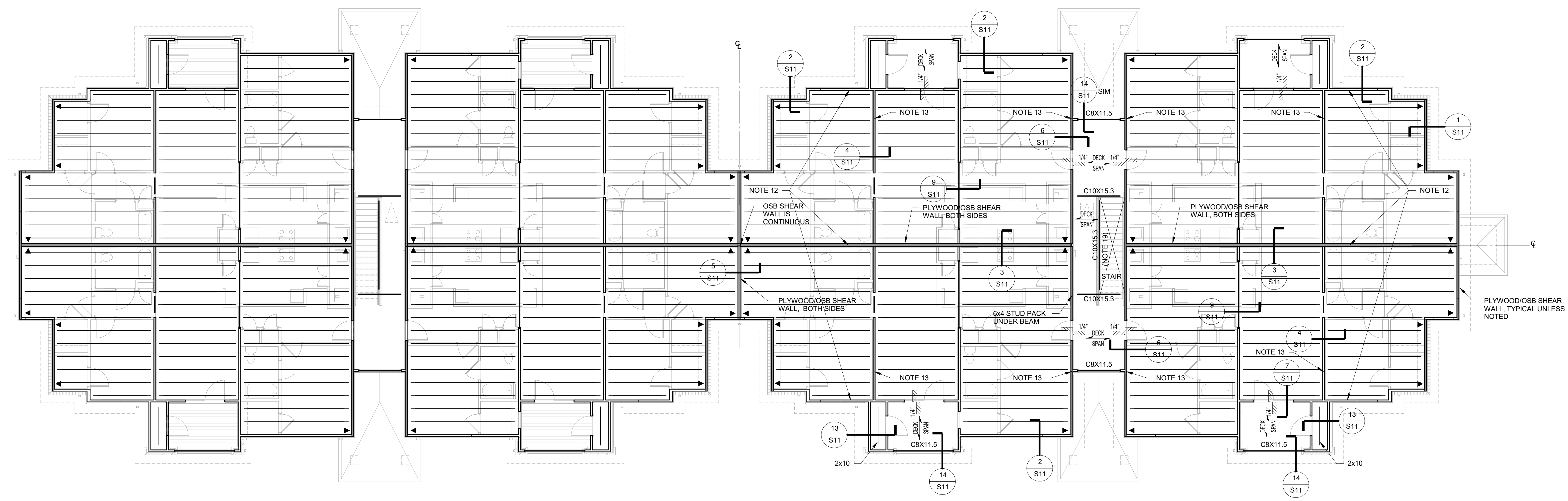
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BUILDING B - LEVEL 3 FRAMING PLAN

1/8" = 1'-0"

1. FLOOR SYSTEM: PREFABRICATED 4x2 16" FLOOR TRUSSES AT 24", UNLESS NOTED.
2. FLOOR SHEATHING: 3/4" PLYWOOD, SEE GENERAL NOTES. GLUE AND NAIL TO TRUSSES.
3. FINISH SUB-FLOOR ELEVATION 21'-0 3/4" ABOVE FIRST FINISH FLOOR.
4. BALCONY ELEVATION 21'-1 5/8" ABOVE FIRST FINISH FLOOR. BREEZEWAY ELEVATION 21'-1 5/8" ABOVE FIRST FINISH FLOOR.
5. FLOOR TRUSS BEARING ELEVATION 19'-8" ABOVE FIRST FINISH FLOOR.
6. POSITION TRUSSES TO AVOID HVAC UNITS AND DUCTS.
7. DIMENSIONS SHOWN ARE TO FACE OF STUD.
8. DETAILS SHOWN ARE TYPICAL FOR THE ENTIRE BUILDING.
9. ▲ DENOTES ANCHOR AT END OF SHEARWALL. FOR DETAIL SEE SHEET S8.
10. ■ DENOTES SHEAR WALL. SEE SHEET S8 FOR SHEAR WALL DETAILS.
11. PROVIDE 18" WIDE x 12" DEEP OPENING ON MECHANICAL CLOSET. FOR LOCATION, SEE ARCHITECTURAL.
12. PROVIDE (2) MSTC40 STRAPS TO DOUBLE STUDS SUPPORTING GIRDER TRUSS ABOVE. CENTER ON FLOOR FRAMING EXTEND TO DOUBLE STUDS BELOW. GC OPTION TO USE (2) FSC ANCHORS.
13. PROVIDE HDU4 ANCHORS INTO TRIPLE 2x4 STUDS ABOVE AND BELOW FLOOR FRAMING.
14. UNLESS NOTED, PROVIDE DOUBLE 2x STUDS UNDER ALL BEAM BEARING POINTS.
15. BUILDING SYMMETRICAL ABOUT CENTERLINES, EXCEPT FOR PUMP ROOM.
16. BALCONY AND BREEZEWAY FRAMING: 3-1/2" CONCRETE ON 2.0C18 GALVANIZED NON-COMPOSITE FORM DECK (5-1/2" TOTAL SLAB THICKNESS). REINFORCE WITH 4x4-W2.9xW2.9 WWR DRAPED AND FIBER MESH. PROVIDE C8x11.5 CHANNEL FRAMING AT PERIMETER. UNLESS NOTED, ALL FRAMING TO BE HOT DIPPED GALVANIZED AFTER FABRICATION. REPAIR ANY BREAKS IN GALVANIZING WITH ZINC RICH PRIMER PRIOR TO PAINTING.
17. STEEL PAN STAIRS TO BE DESIGNED BY THE STEEL FABRICATOR, TYPICAL.
18. BEAM REACTIONS ARE INDICATED AT ENDS OF BEAMS AS "Xk" WHERE "X" IS THE MAGNITUDE OF THE WORKING LOAD SHEAR REACTION IN KIPS.
19. PROVIDE 1/4"x3"x5-1/2" BENT CLOSURE PLATE AT STAIR OPENING BEAMS, TYPICAL.

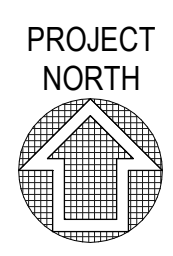
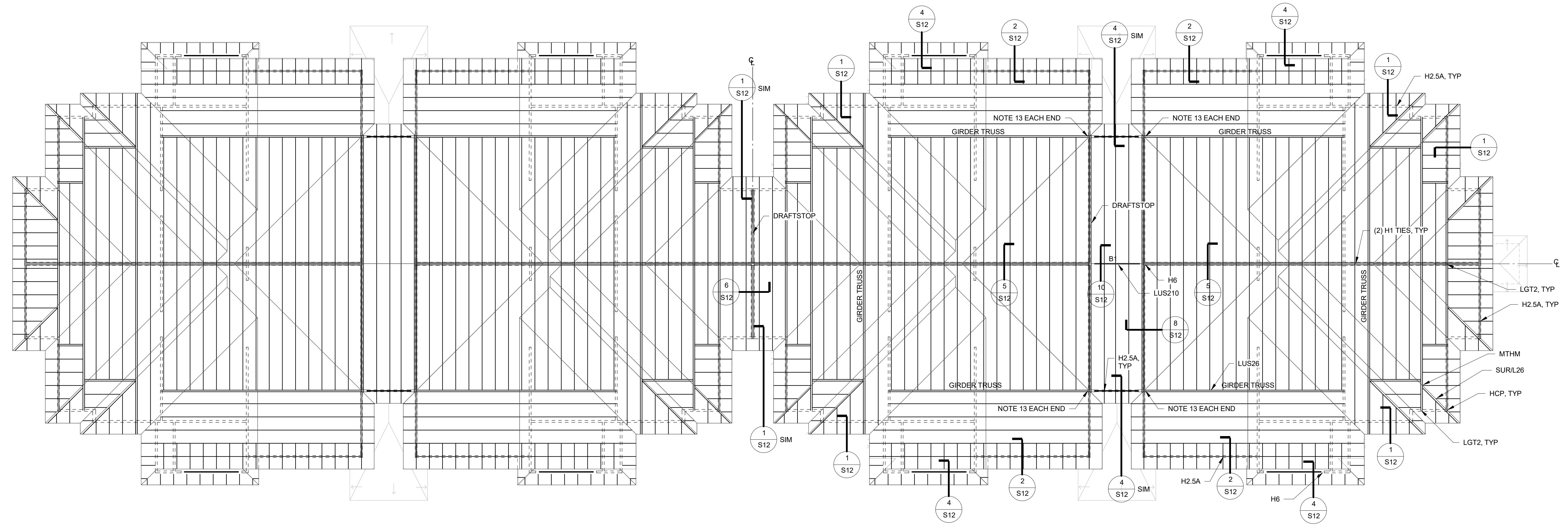
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BUILDING B - ROOF FRAMING PLAN

1/8" = 1'-0"

1. ROOF SYSTEM: PREFABRICATED ROOF TRUSSES AT 24". SEE GENERAL NOTES. TRUSS LAYOUTS AND PROFILES BY OTHERS.
2. ROOF SHEATHING: 1/2" OSB OR PLYWOOD, SEE GENERAL NOTES.
3. TRUSS BEARING ELEVATION 30'-2 3/8", ABOVE FIRST FINISH FLOOR.
4. DETAILS AND ANCHORS SHOWN ARE TYPICAL FOR ENTIRE BUILDING.
5. FOR DIMENSIONS SEE FOUNDATION PLAN.
6. ALL HORIZONTAL FRAMING LUMBER TO BE #2 SYP UNLESS NOTED, OR LUMBER WITH EQUAL OR GREATER STRUCTURAL PROPERTIES.
7. ALL EXTERIOR WALLS SHALL BE LOAD BEARING.
8. GIRDER TRUSSES SHALL NOT BEAR ABOVE OPENINGS IN WALL. PROVIDE DOUBLE STUDS AT BEARING.
9. AT DRAFTSTOP TRUSSES, PROVIDE VERTICAL MEMBERS AT 16" IN ADDITION TO REQUIRED WEB MEMBERS. FOR DOOR INFORMATION, SEE ARCHITECTURAL DRAWINGS. FOR LOCATION, SEE ARCHITECTURAL DRAWINGS.
10. B1 DENOTES (2) 1 3/4x9 1/4 LVL. PROVIDE DOUBLE STUD AND (2) H6 ANCHOR AT BEARING.
11. SHEARWALLS ARE SHOWN ON FLOOR BELOW. PROVIDE ADDITIONAL TRUSS ABOVE SHEARWALLS AND AT DRAFTSTOP AS REQUIRED.
12. AT VAULTED CEILING TRUSSES, PROVIDE CONTINUOUS BOTTOM CHORD FROM EXTERIOR BEARING WALL TO INTERIOR BEARING WALL. ATTACH MEMBER(S) TO BOTTOM CHORD AS REQUIRED TO FORM VAULTED CEILING. THIS IS DONE TO ELIMINATE ARCH EFFECT AND HORIZONTAL DISPLACEMENT.
13. PROVIDE TRIPLE STUDS AT TRUSS BEARING. PROVIDE MGT ANCHOR ABOVE DOUBLE TOP PLATE. PROVIDE HDU4 BELOW DOUBLE TOP PLATE.
14. BUILDING SYMMETRICAL ABOUT CENTERLINES.
15. EXTEND DRAFTSTOP SHEATHING TO ROOF SHEATHING.
16. PROVIDE DOUBLE STUDS AT MGT AND LGT ANCHORS.
17. PROVIDE (2) 2x FRAMING AT ATTIC ACCESS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

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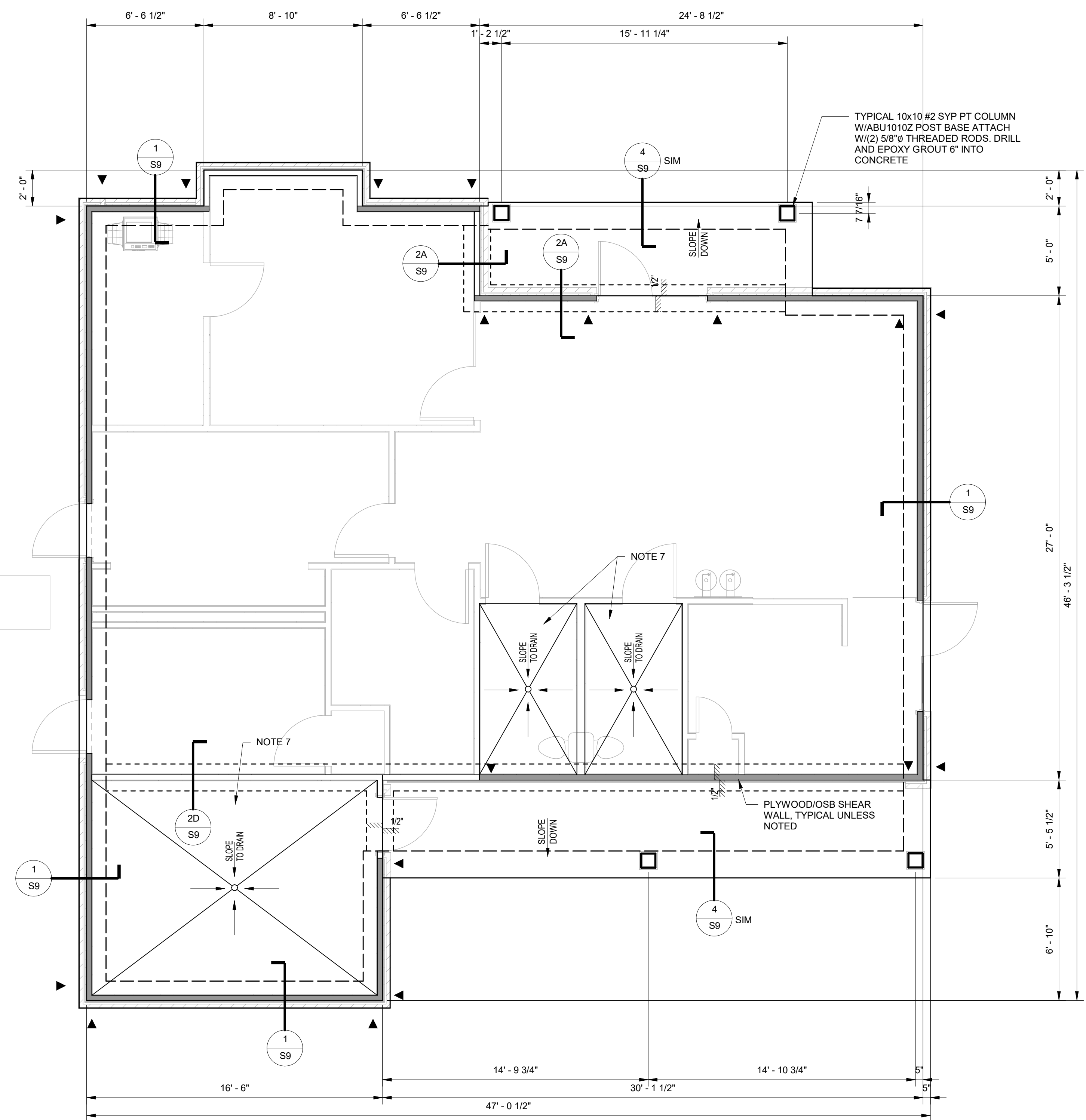
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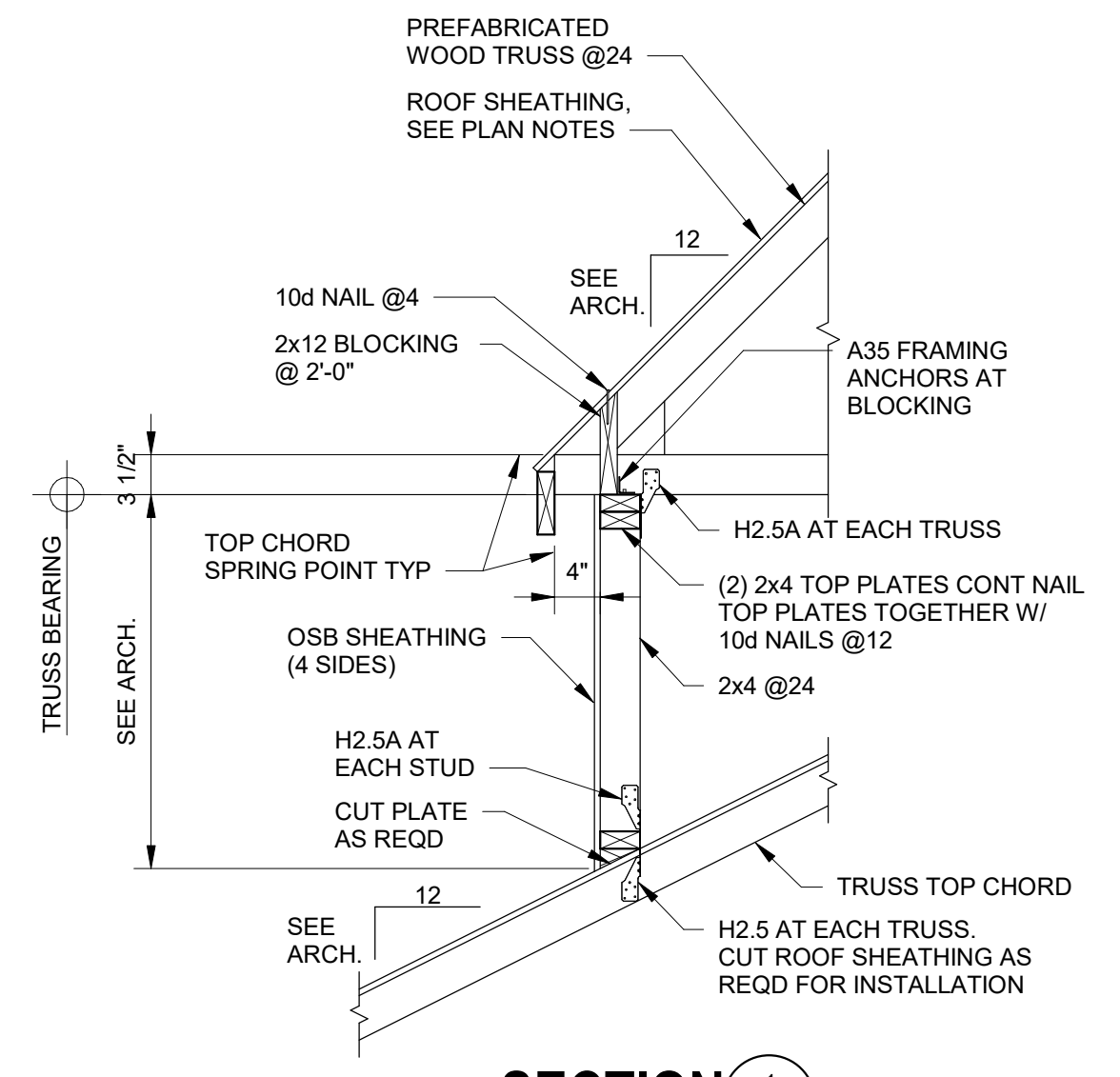


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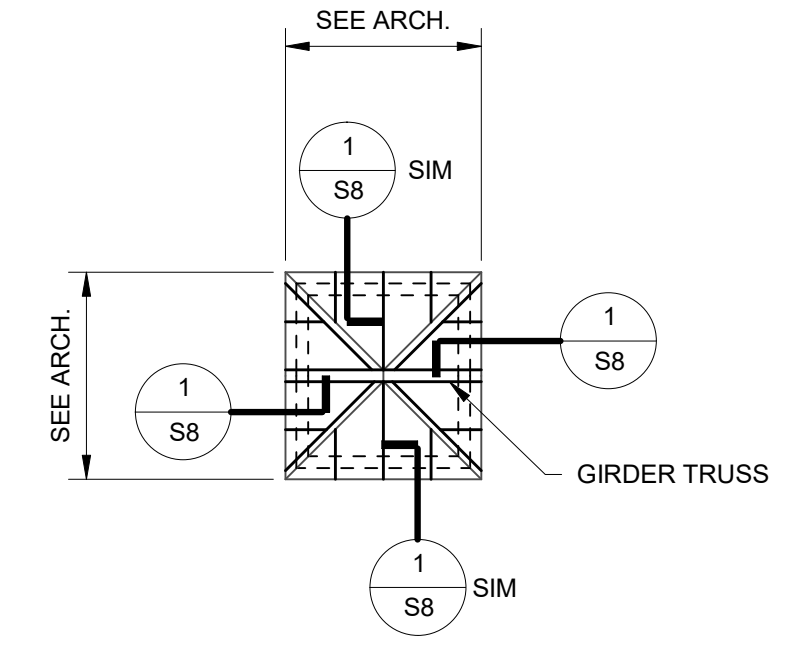


BUILDING C - LEVEL 1 FOUNDATION PLAN
 1/4" = 1'-0"

1. FINISHED FLOOR ELEVATION VARIES. SEE ARCHITECTURAL DRAWINGS.
2. SLAB CONSTRUCTION: 4" THICK, POST TENSIONED, CAST IN PLACE SLAB. SEE GENERAL NOTES.
3. DETAILS SHOWN ARE TYPICAL FOR THE ENTIRE BUILDING.
4. DIMENSIONS SHOWN ARE TO EDGE OF SLAB/FACE OF STUD.
5. ▲ DENOTES HOLD DOWN ANCHOR AT END OF SHEAR WALL. FOR DETAIL SEE SHEET S9.
6. ■ DENOTES SHEARWALL. SEE SHEET S9 FOR SHEAR WALL DETAILS.
7. SLOPE SLABS TO DRAINS. SEE ARCHITECTURAL AND PLUMBING DRAWINGS.

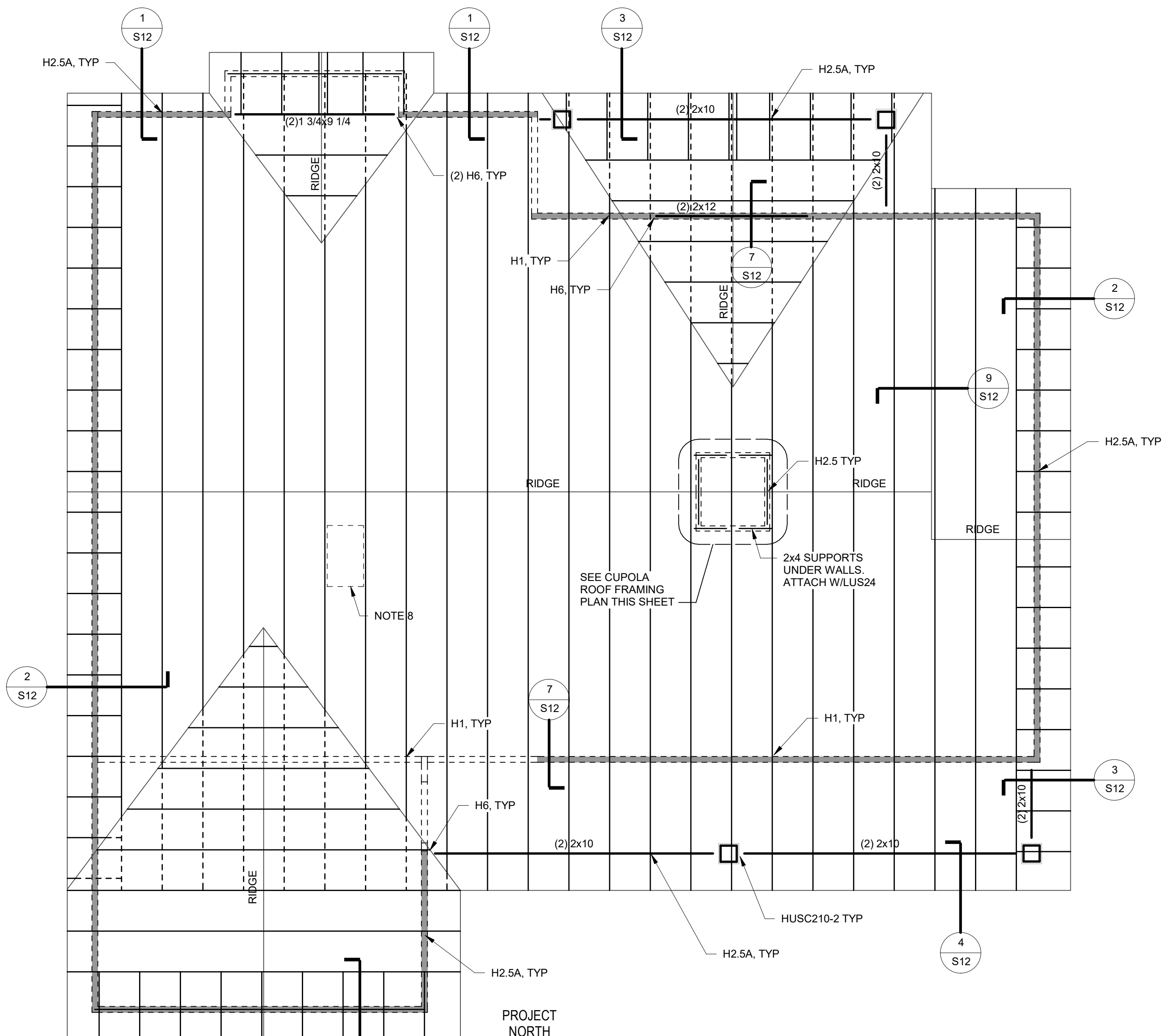


SECTION 1 S8
 3/4" = 1'-0"



CUPOLA ROOF FRAMING PLAN
 1/4" = 1'-0"

1. TRUSS BEARING ELEVATION, SEE ARCHITECTURAL DRAWINGS.



BUILDING C - ROOF FRAMING PLAN
 1/4" = 1'-0"

1. ROOF SYSTEM: PREFABRICATED ROOF TRUSSES AT 24". SEE GENERAL NOTES.
2. ROOF SHEATHING: 1/2" OSB OR PLYWOOD. SEE GENERAL NOTES.
3. TRUSS BEARING ELEVATION 9'-1 5/8" ABOVE LOWER LEVEL FINISHED FLOOR.
4. TRUSSES BEAR ON ALL WALLS AND BEAMS SHOWN.
5. POSITION TRUSSES TO AVOID HVAC UNITS AND DUCTS.
6. DETAILS SHOWN ARE TYPICAL FOR THE ENTIRE BUILDING.
7. ANCHORS SHOWN ARE TYPICAL.
8. PROVIDE (2) 2x FRAMING AT ATTIC ACCESS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS.
9. PROVIDE BLOCKING BETWEEN TRUSSES AS REQUIRED FOR CEILING FAN SUPPORT AT LIGHT FIXTURE LOCATIONS AT MULTI-PURPOSE ROOM.

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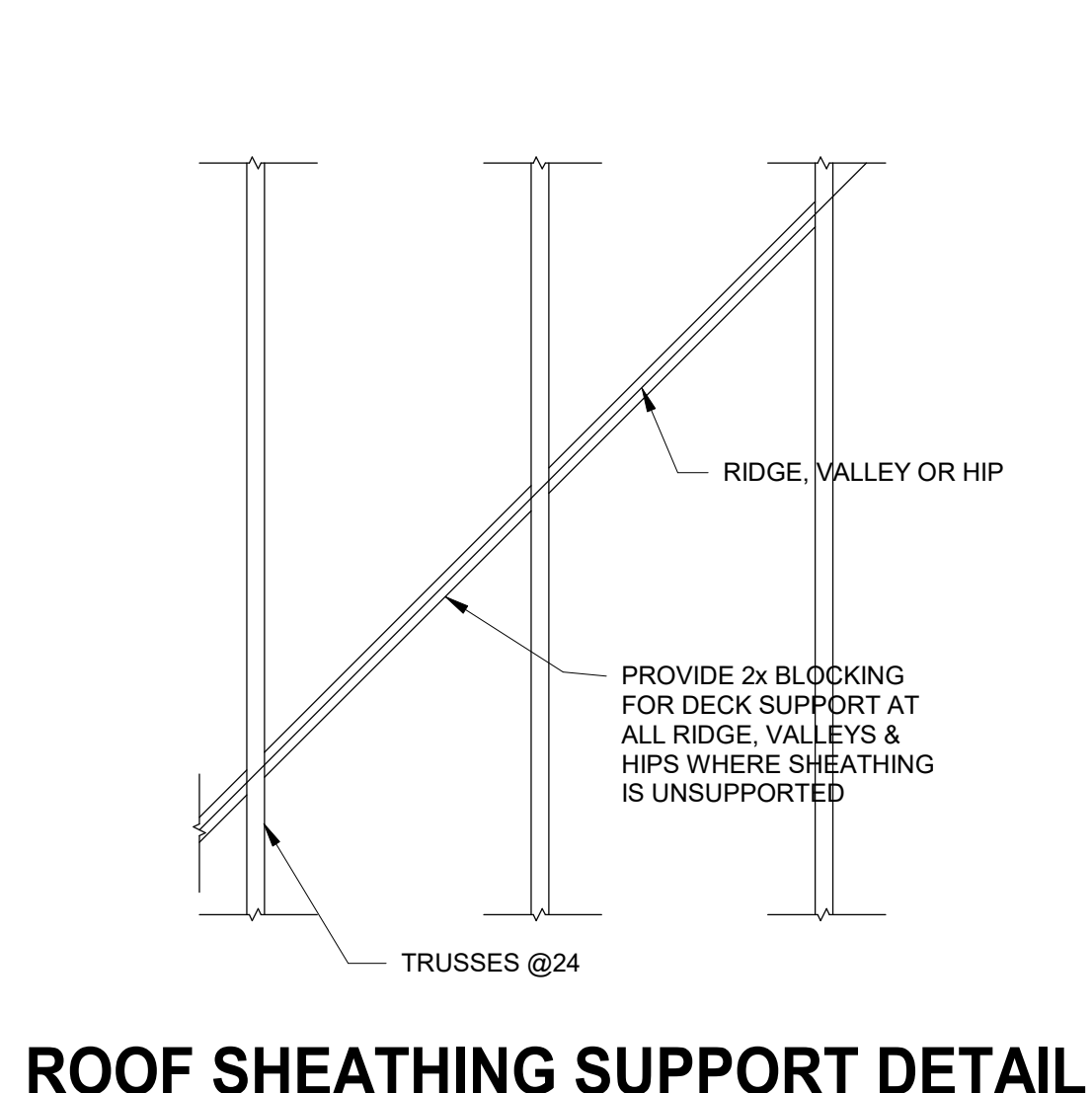
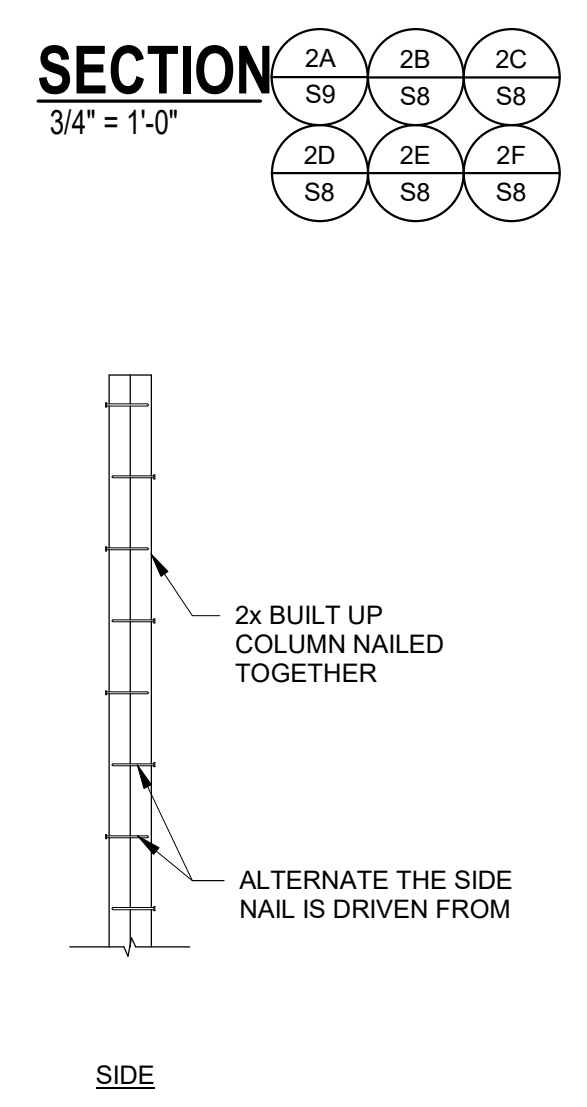
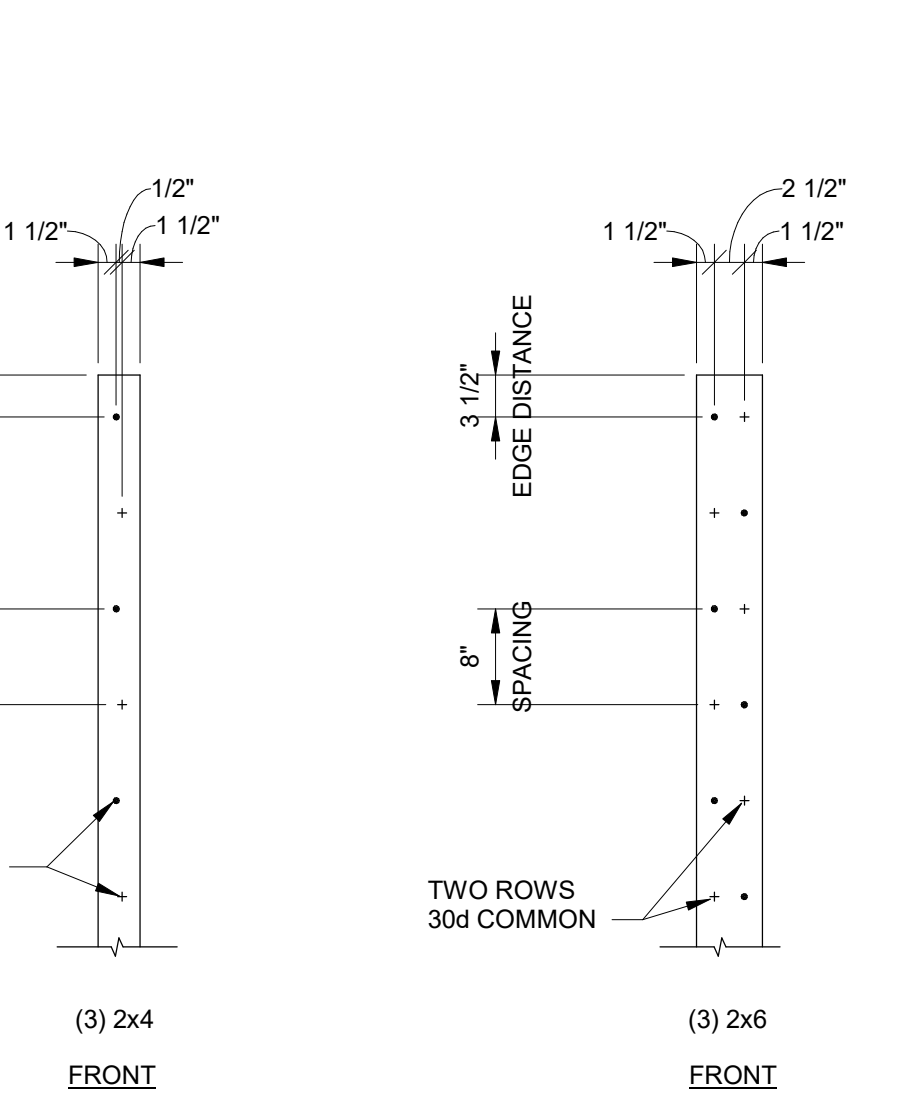
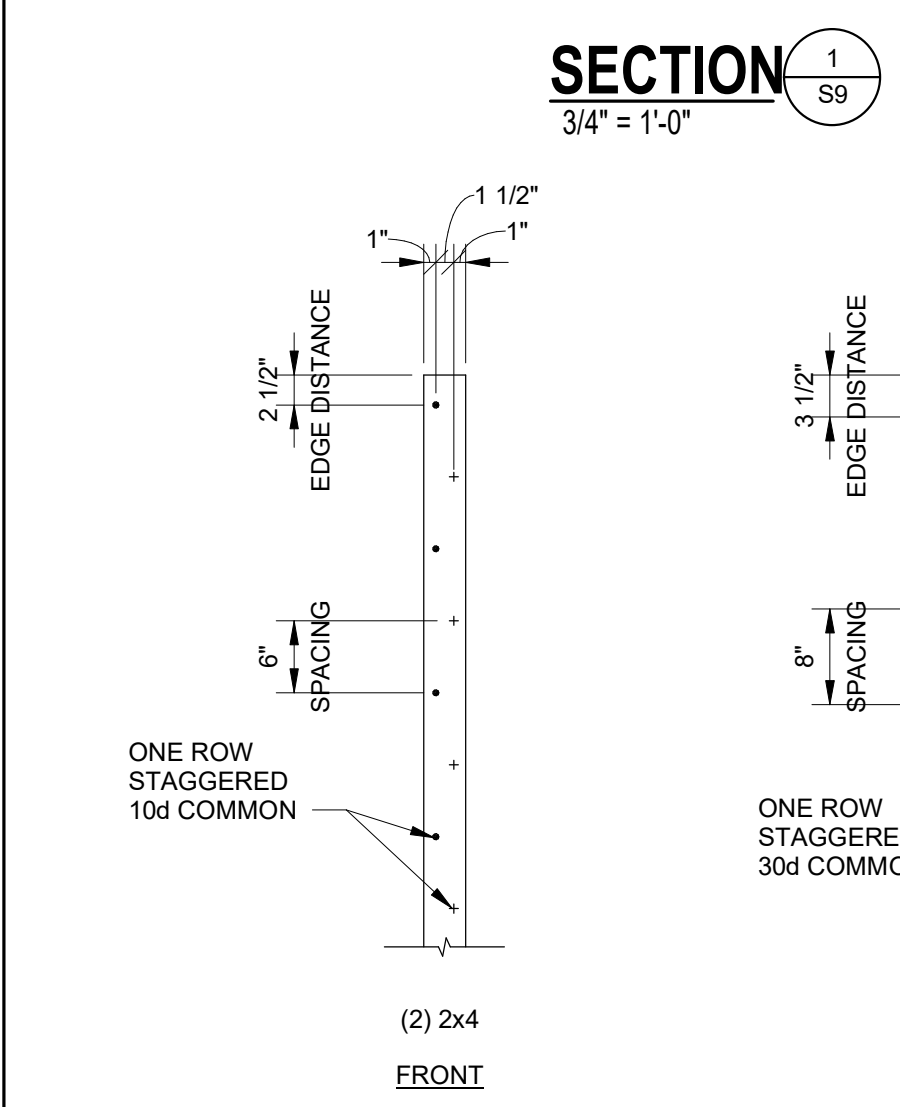
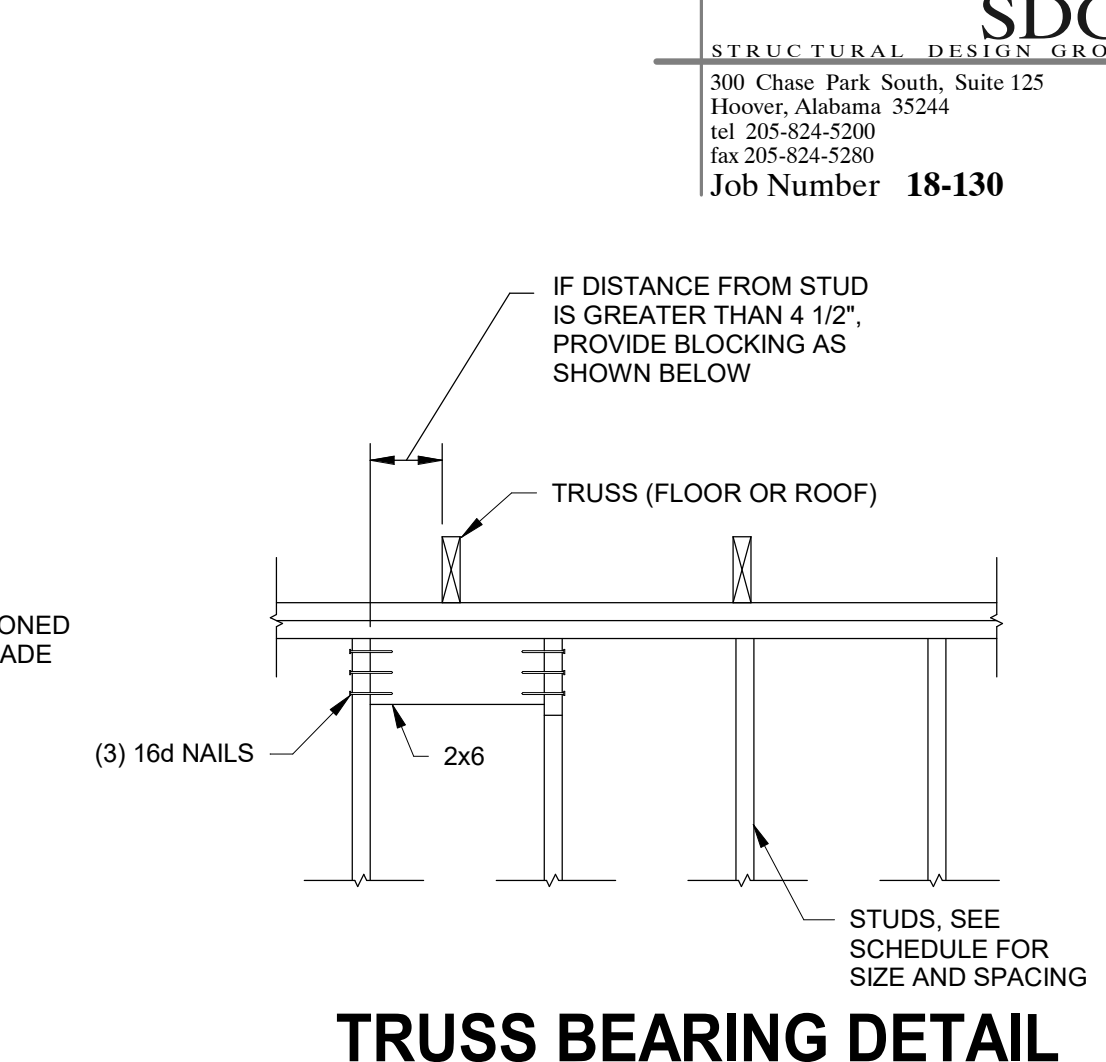
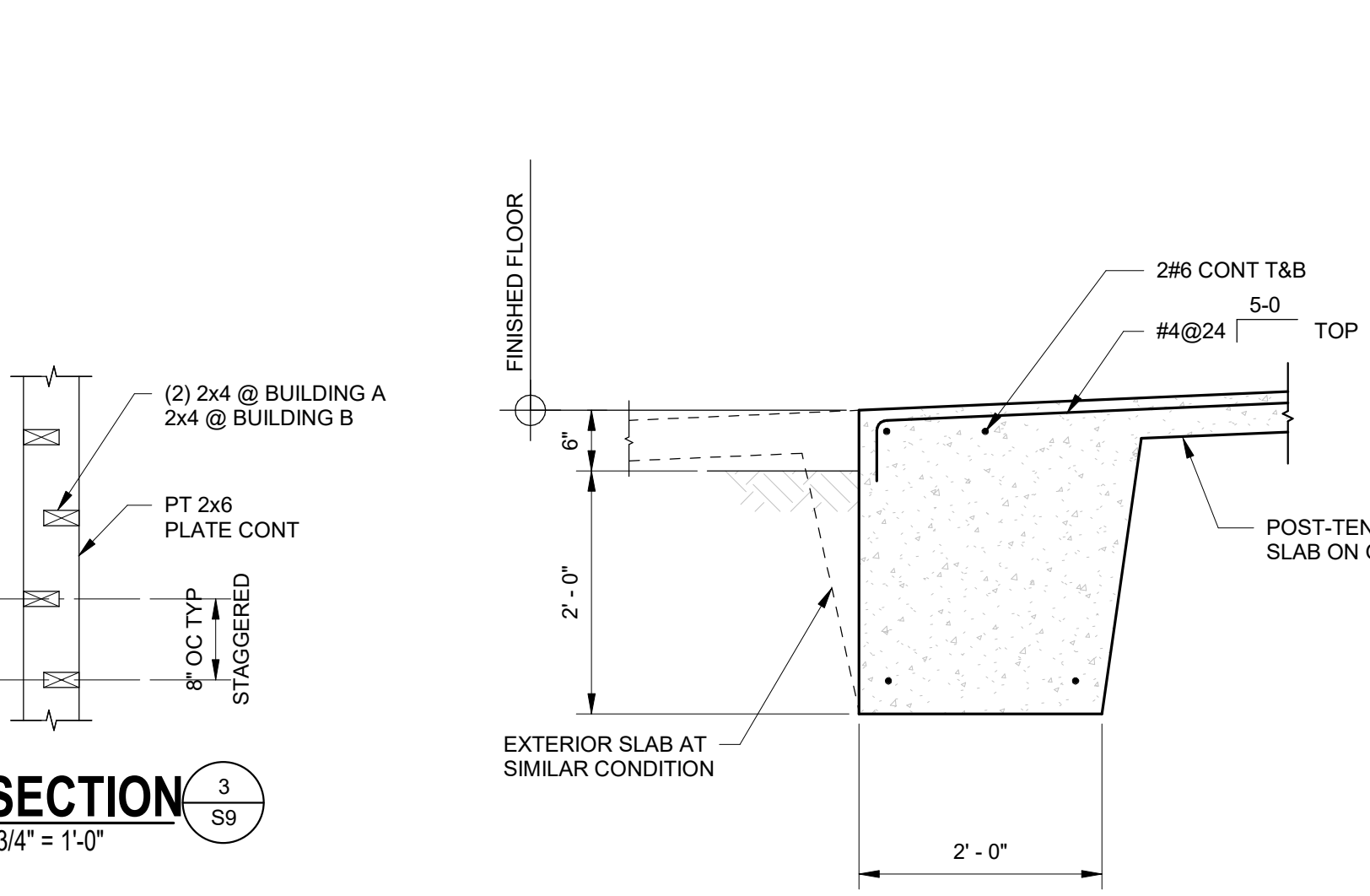
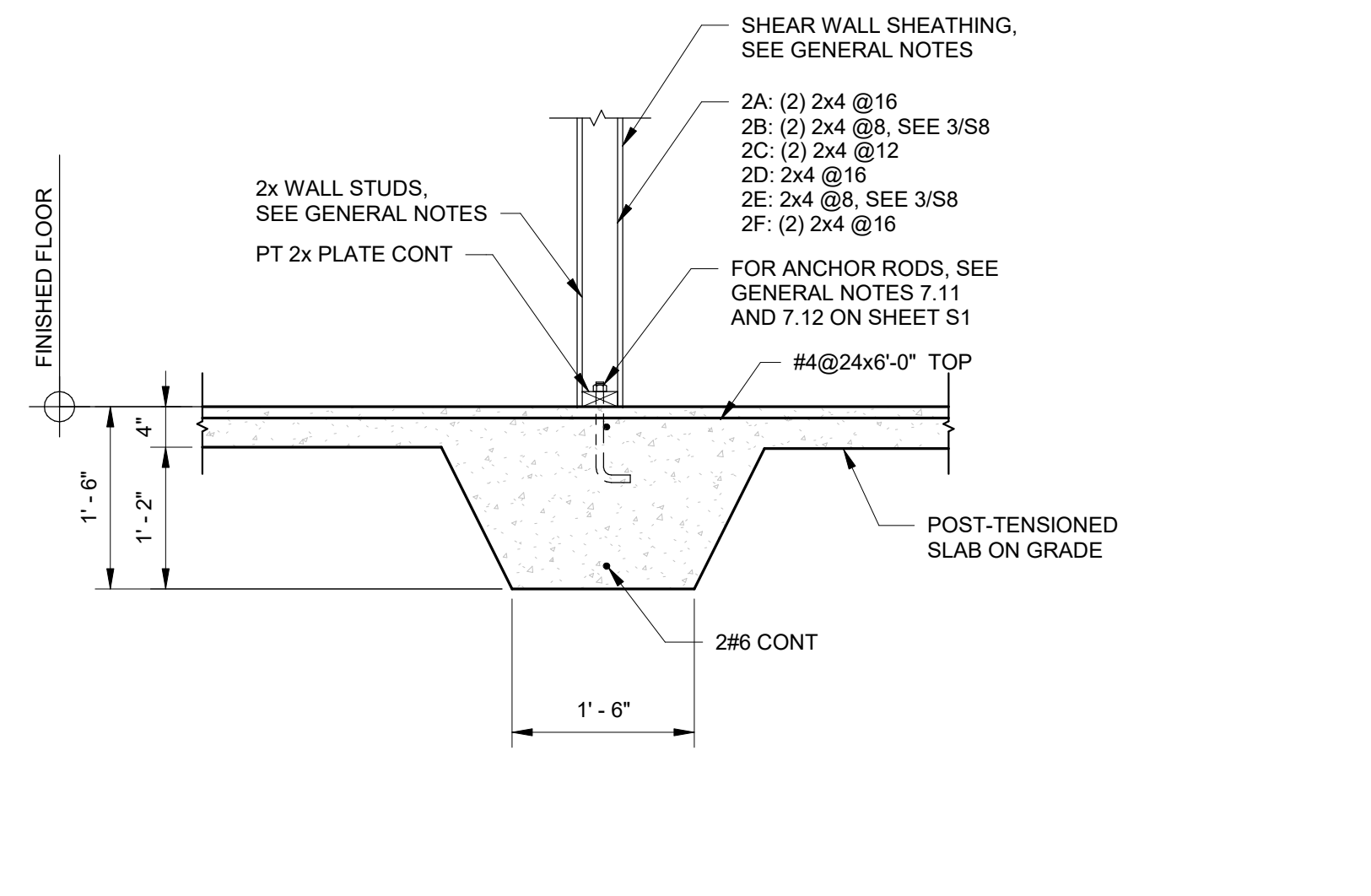
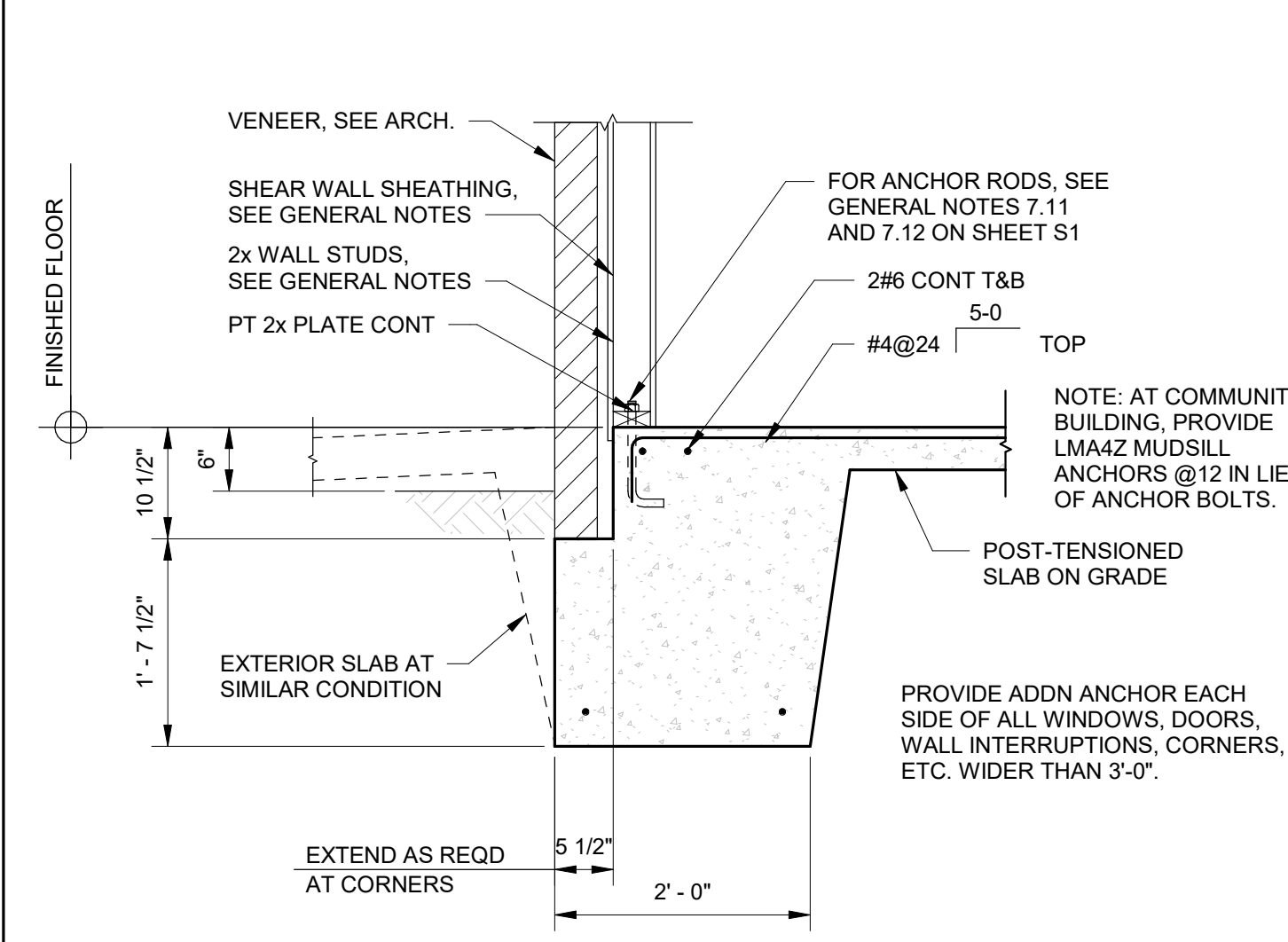
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MASONRY LINTEL SCHEDULE

MAXIMUM OPENING WIDTH	STEEL FOR EACH 4" OF WALL THICKNESS
2'-0"	L3 1/2x3 1/2x3/8
4'-0"	L3 1/2x3 1/2x3/8
6'-0"	L3 1/2x3 1/2x3/8
8'-0"	L5x3 1/2x3/8
10'-0"	L5x5x3/8
14'-0"	L7x4x3/8

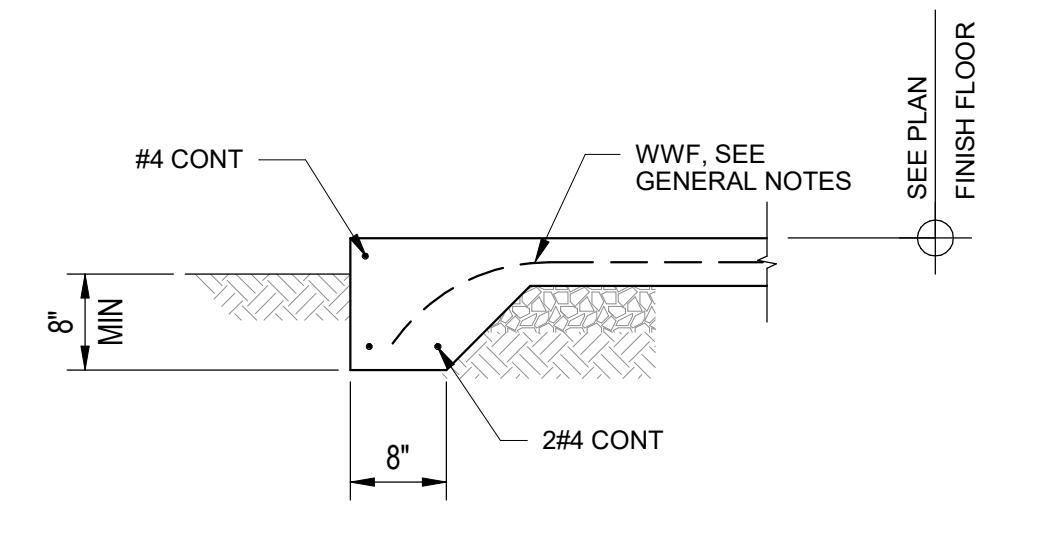
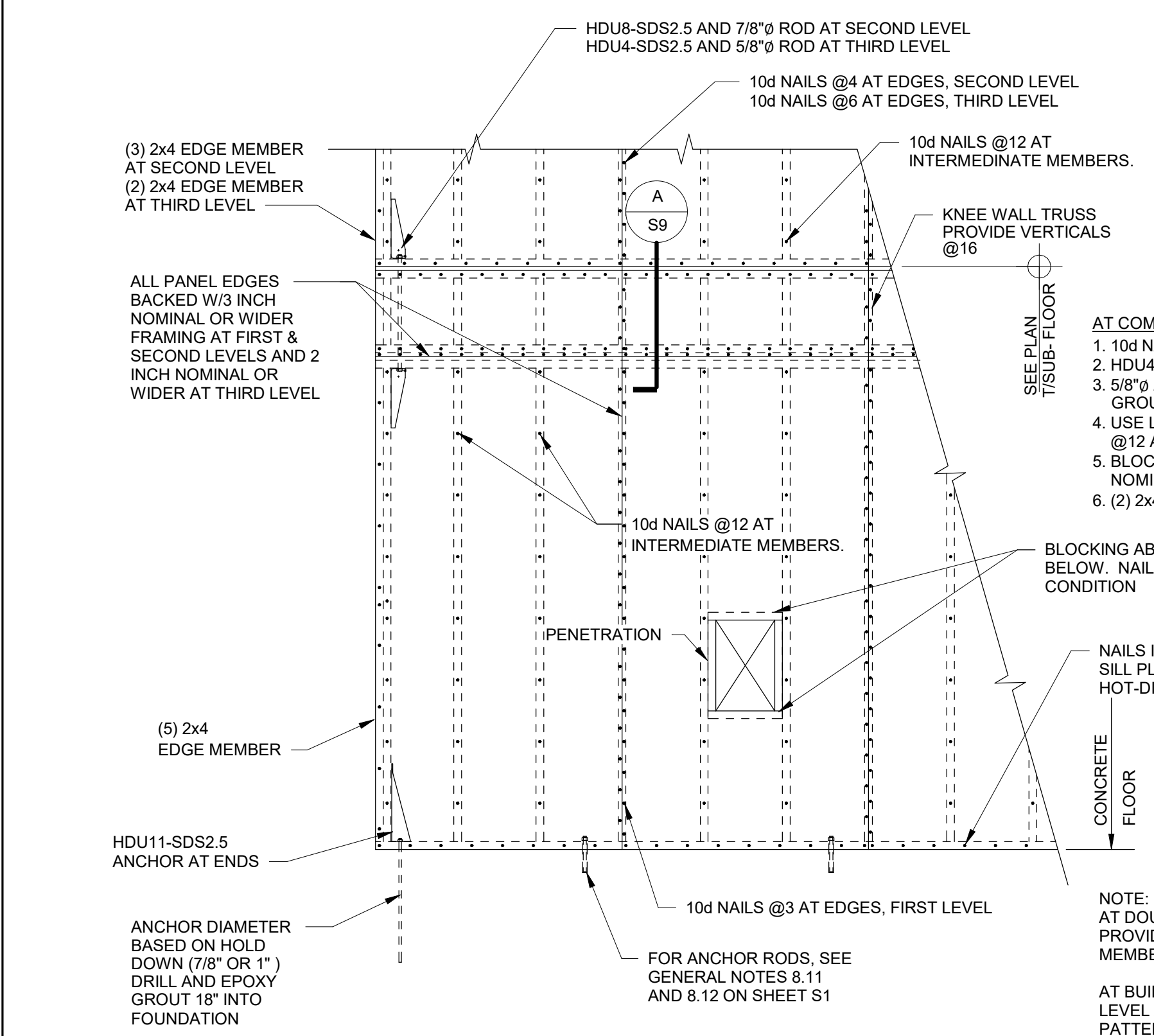
PROVIDE 8" MINIMUM BEARING FOR ALL LINTELS. ROLL ANGLE TO RADIUS AS REQUIRED.

STUD SCHEDULES LOAD BEARING WALLS

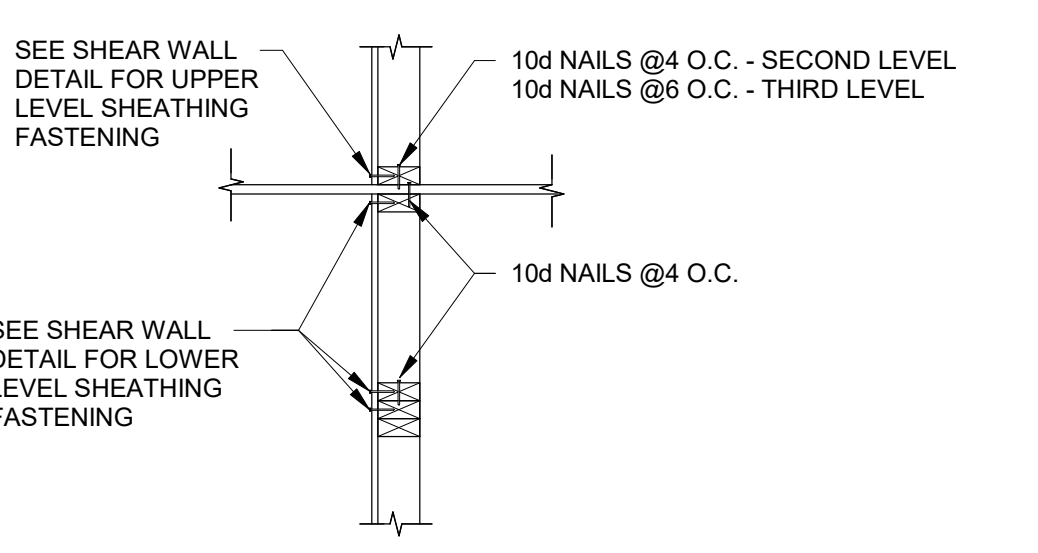
BUILDING A	
FIRST LEVEL EXTERIOR	(2) 2x4 @ 16 *
FIRST LEVEL INTERIOR	2x4 @ 16 *
SECOND LEVEL EXTERIOR	2x4 @ 16
SECOND LEVEL INTERIOR	2x4 @ 16
BUILDING B	
FIRST LEVEL EXTERIOR	(2) 2x4 @ 16 *
FIRST LEVEL INTERIOR	(2) 2x4 @ 16 *
SECOND LEVEL EXTERIOR	(2) 2x4 @ 16 *
SECOND LEVEL INTERIOR	2x4 @ 16 *
THIRD LEVEL EXTERIOR	2x4 @ 16
THIRD LEVEL INTERIOR	2x4 @ 16
BUILDING C	
EXTERIOR	2x4 @ 16
INTERIOR	2x4 @ 16

NOTE: BREEZEWAY WALLS ARE CONSIDERED EXTERIOR WALLS.
* PROVIDE (2) 2x4 WALL STUDS AT SHEAR WALLS AND AT BLOCKING FOR ALL SHEAR WALL SHEATHING PANEL EDGES.

BUILT UP COLUMN DETAIL
TYPICAL SUPPORT FOR HEADER



SLAB EDGE DETAIL
TYPICAL

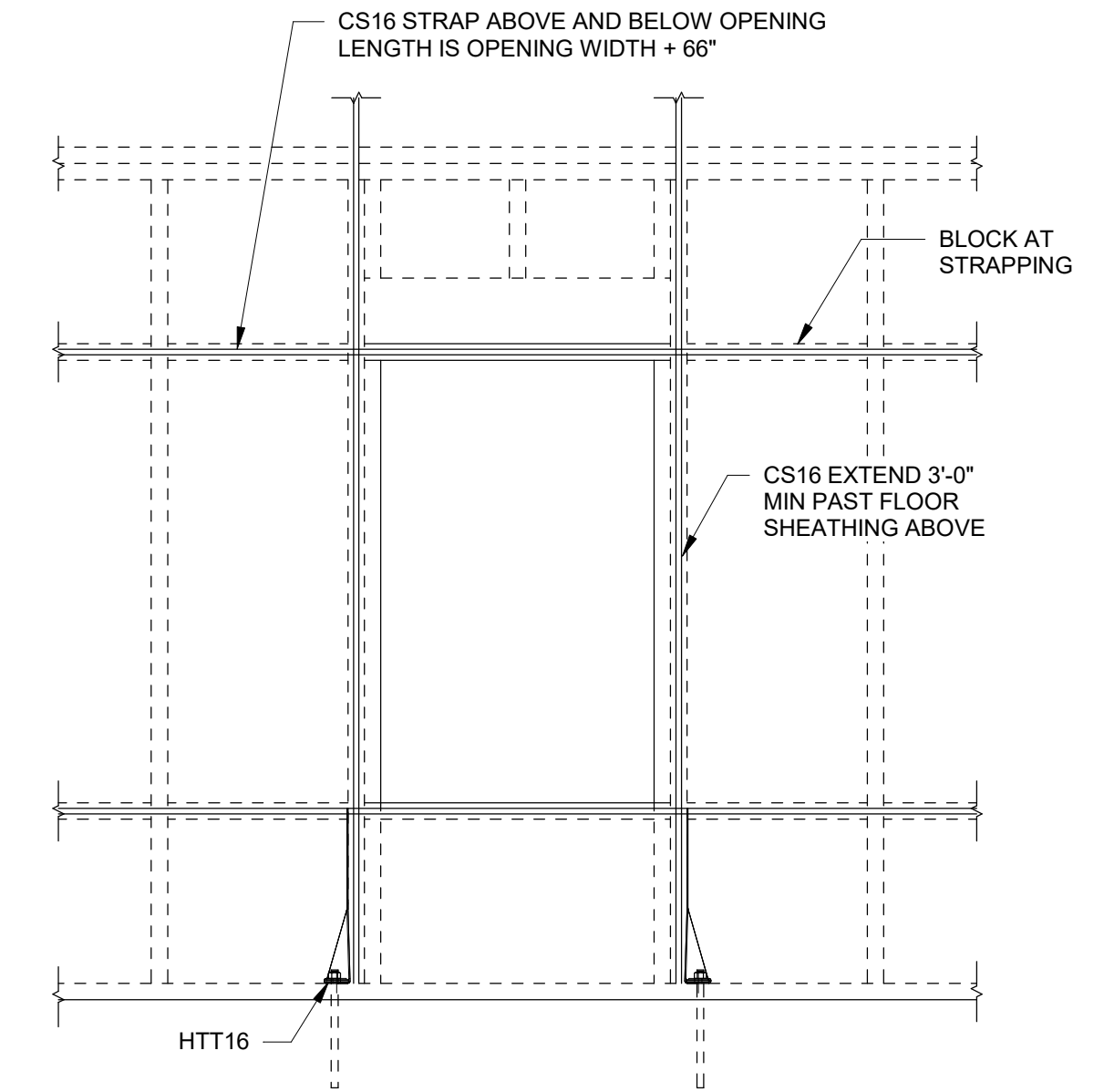


SECTION A
3/4" = 1'-0"

TENSION LAP SPLICE LENGTHS

BAR SIZE	f _c = 3000 PSI			
	TOP BARS		OTHER BARS	
	A	B	A	B
#3	22"	28"	17"	22"
#4	29"	37"	22"	29"
#5	36"	47"	28"	36"
#6	43"	56"	33"	43"
#7	63"	81"	48"	63"

TOP BARS ARE HORIZONTAL REINFORCEMENT WITH MORE THAN 12" OF CONCRETE CAST BELOW THE REINFORCEMENT.



PLYWOOD/OSB SHEAR WALL OPENINGS

- DETAIL APPLIES TO FIRST LEVEL OF A THREE STORY BUILDING.
- DETAIL APPLIES AT DOOR AND WINDOW OPENINGS.
- CENTER HORIZONTAL STRAPS ON OPENING.
- APPLY STRAPS OVER FACE OF SHEATHING.
- ATTACH HTT16 TO FOUNDATION WITH 5/8" THREADED ROD DRILLED AND EPOXY GROUTED 12" INTO CONCRETE.

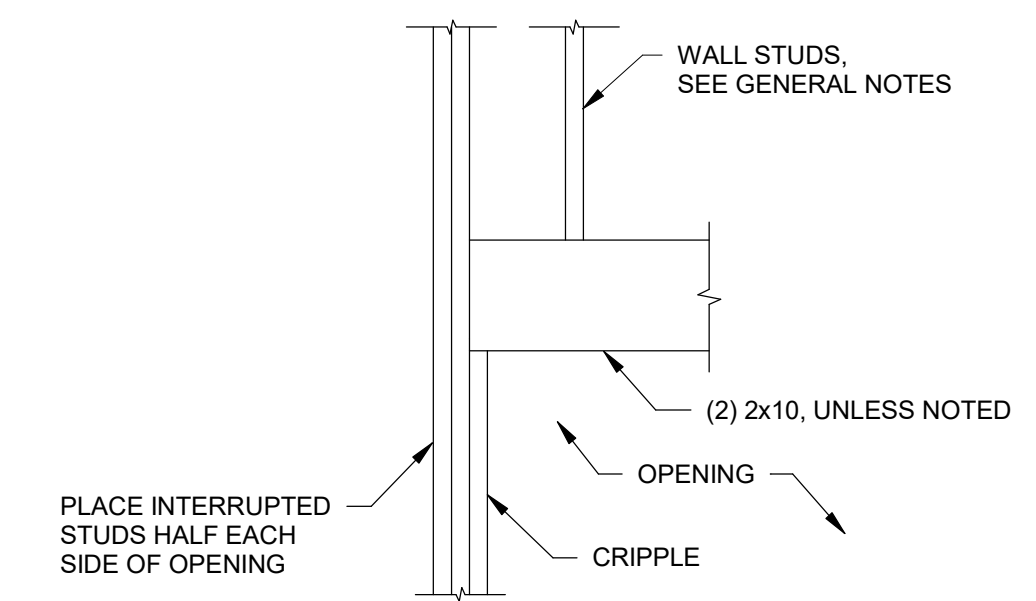
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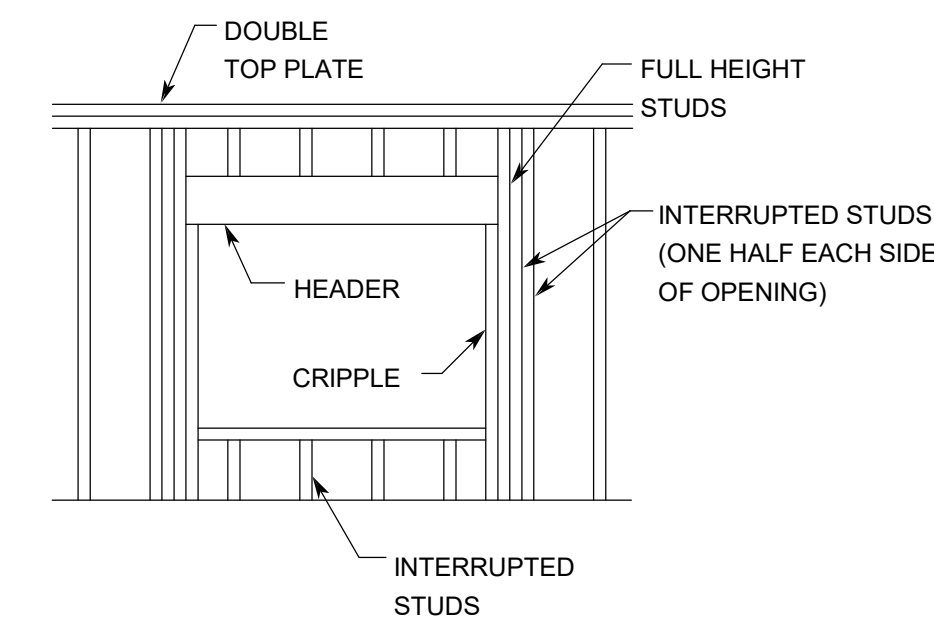
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OPENING FRAMING

TYPICAL
FOR LOAD BEARING WALLS WITH OPENINGS WIDER THAN 2'-8"



STUD PLACEMENT AT OPENINGS

TYPICAL

COMPONENTS AND CLADDING WIND LOADS FOR WALLS (PSF)

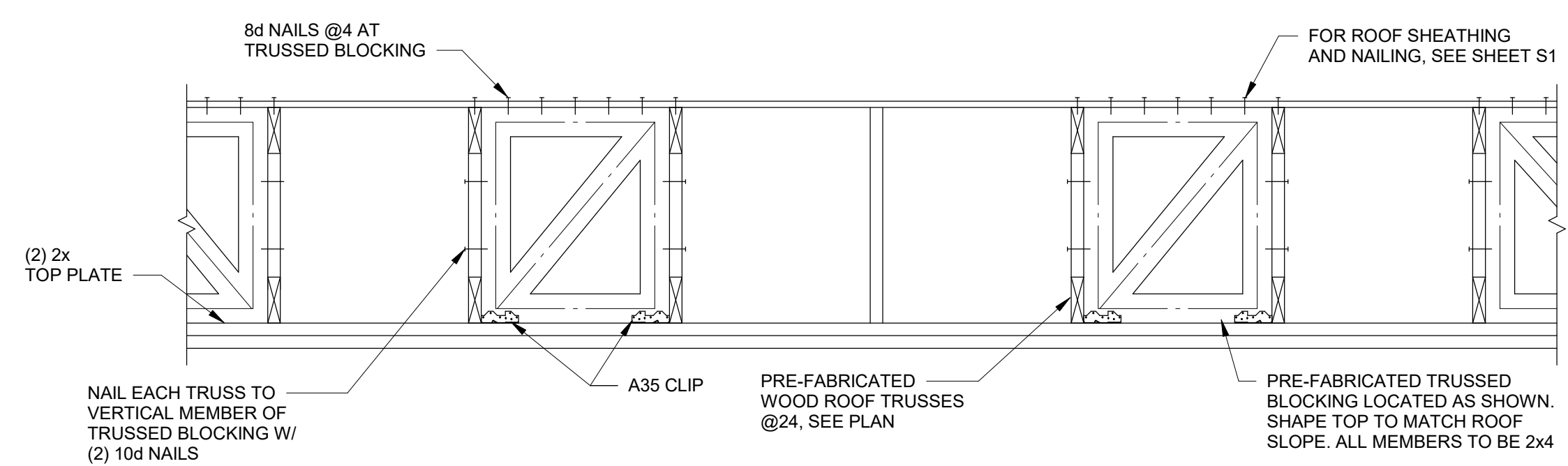
	EFFECTIVE WIND AREA (FT ²)	115 MPH WIND SPEED	
INT ZONE	10	36.0	-39.1
	20	34.4	-37.5
	50	32.3	-35.3
	100	30.6	-33.7
	500	26.9	-29.9
EDGE ZONE	10	36.0	-48.2
	20	34.4	-45.0
	50	32.3	-40.7
	100	30.6	-37.5
	500	26.9	-29.9

- NOTES:
1. WIDTH OF EDGE STRIP a=5'-9".
 2. VALUES SHOWN ABOVE HAVE BEEN ADJUSTED FOR BUILDING HEIGHT AND EXPOSURE ACCORDING TO ASCE 7-10 STANDARD FIGURE 30.5-1 AND IMPORTANCE FACTOR.
 3. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE BUILDING SURFACES.
 4. EFFECTIVE WIND AREA IS THE SPAN LENGTH MULTIPLIED BY AN EFFECTIVE WIDTH THAT NEED NOT BE LESS THAN ONE-THIRD THE SPAN LENGTH.
 5. WIND PRESSURES IN THESE TABLES SHALL BE MULTIPLIED BY 0.6 TO OBTAIN NOMINAL WIND PRESSURES.

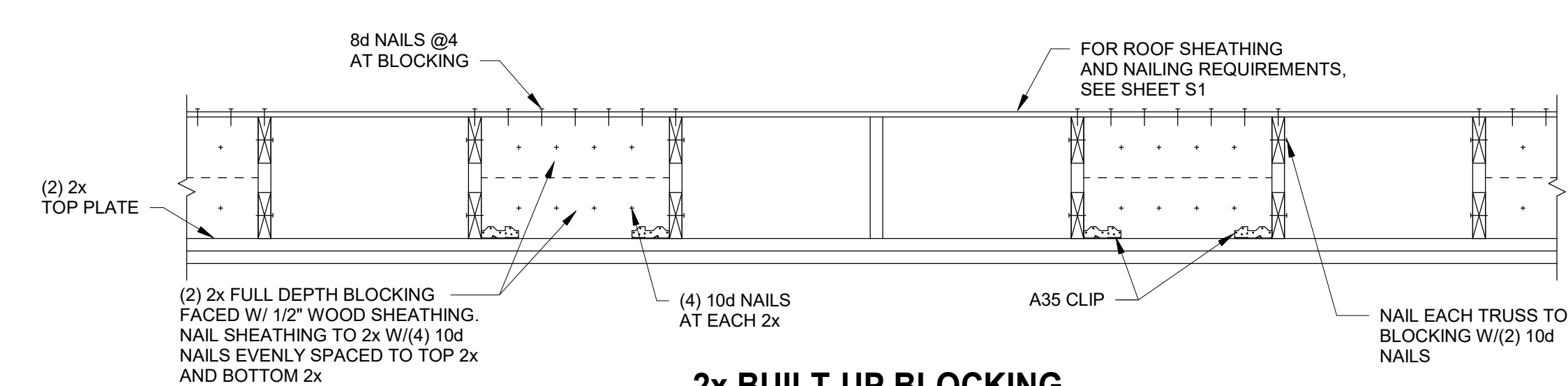
COMPONENTS AND CLADDING WIND LOADS FOR ROOF (PSF)

	EFFECTIVE WIND AREA (FT ²)	115 MPH WIND SPEED	
INT ZONE (1)	10	20.8	-33.0
	20	18.9	-32.1
	50	16.5	-30.9
	100	16.0	-29.9
EDGE ZONE (2)	10	20.8	-57.4
	20	18.9	-52.8
	50	16.5	-46.7
	100	16.0	-42.1
CORNER ZONE (3)	10	20.8	-84.8
	20	18.9	-79.3
	50	16.5	-72.0
	100	16.0	-66.5

- NOTES:
1. WIDTH OF EDGE STRIP a=5'-9".
 2. VALUES SHOWN ABOVE HAVE BEEN ADJUSTED FOR BUILDING HEIGHT AND EXPOSURE ACCORDING TO ASCE 7-10 STANDARD FIGURE 30.5-1 AND IMPORTANCE FACTOR.
 3. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE BUILDING SURFACES.
 4. EFFECTIVE WIND AREA IS THE SPAN LENGTH MULTIPLIED BY AN EFFECTIVE WIDTH THAT NEED NOT BE LESS THAN ONE-THIRD THE SPAN LENGTH.
 5. CONSIDER 5 PSF MINIMUM DEAD LOAD FOR UPLIFT CALCULATIONS FOR ROOF JOISTS AND 2 PSF MINIMUM DEAD LOAD FOR UPLIFT CALCULATIONS FOR ROOF DECK.
 6. WIND PRESSURES IN THESE TABLES SHALL BE MULTIPLIED BY 0.6 TO OBTAIN NOMINAL WIND PRESSURES.
 7. RIDGE AND HIPS ARE CONSIDERED TO BE EDGE ZONES.



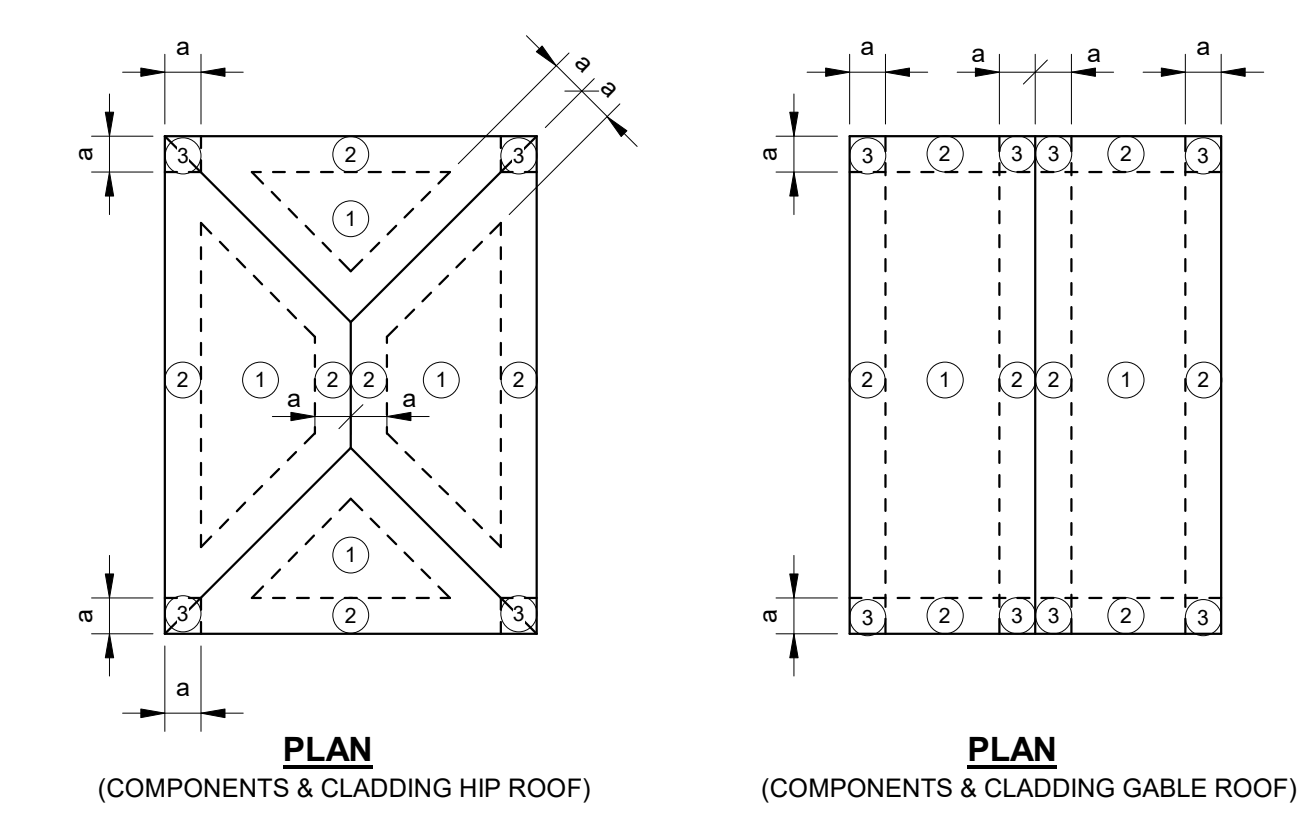
TRUSSED BLOCKING



2x BUILT-UP BLOCKING

TRUSS BLOCKING AT EXTERIOR WALL

TYPICAL
NOTE: CONTRACTORS OPTION TO USE EITHER TRUSSED BLOCKING OR 2x BUILT-UP BLOCKING AT AREAS WHERE TRUSS HEEL HEIGHT EXCEEDS THAT WHICH TYPICAL 2x SOLID DEPTH BLOCKING IS PRACTICAL.



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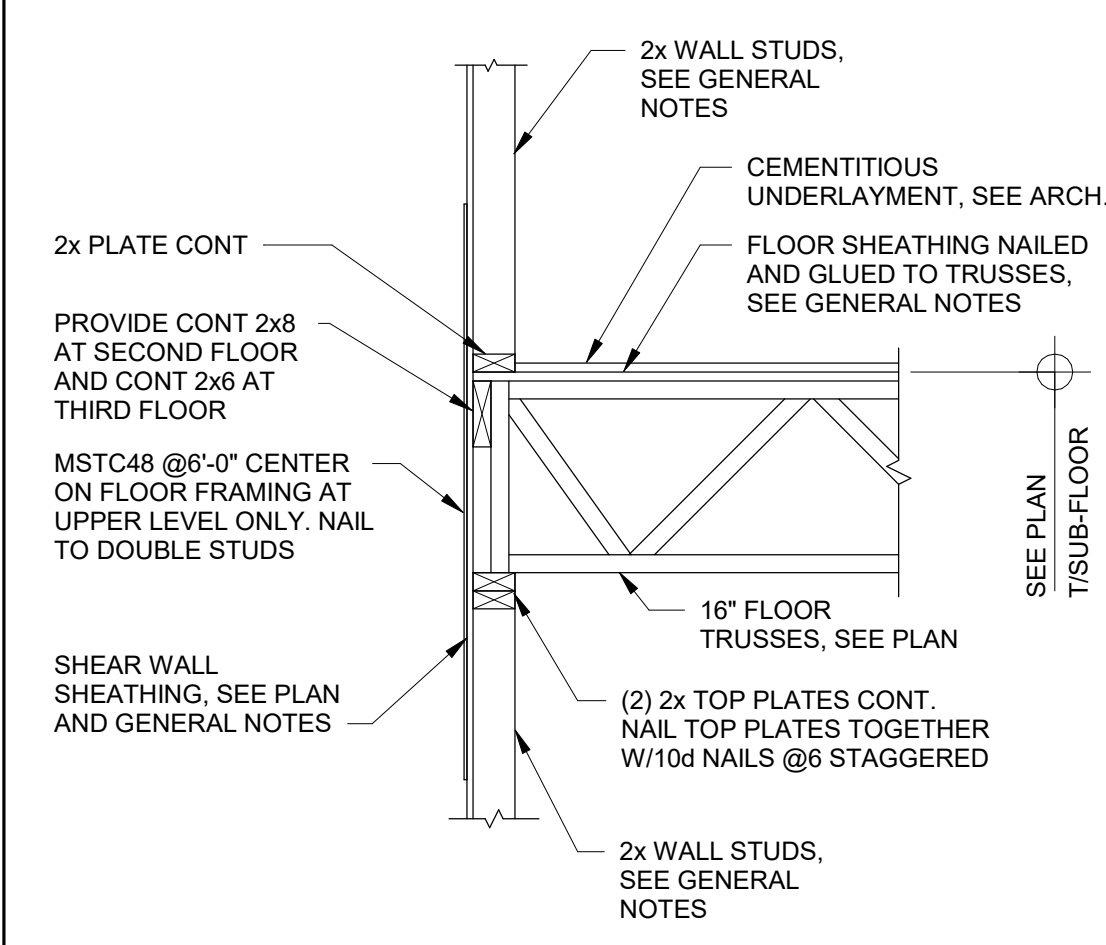
PROJECT NUMBER
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PROJECT
The Park at Barton

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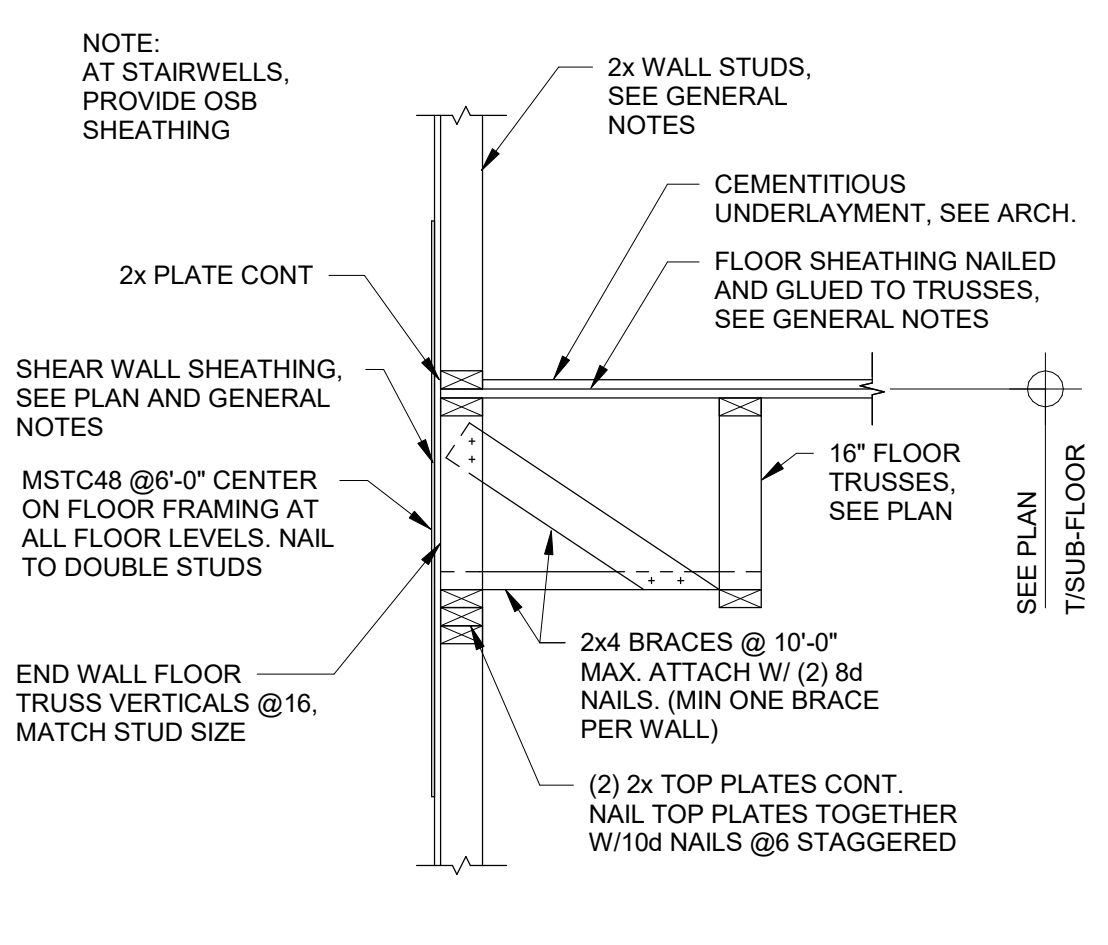
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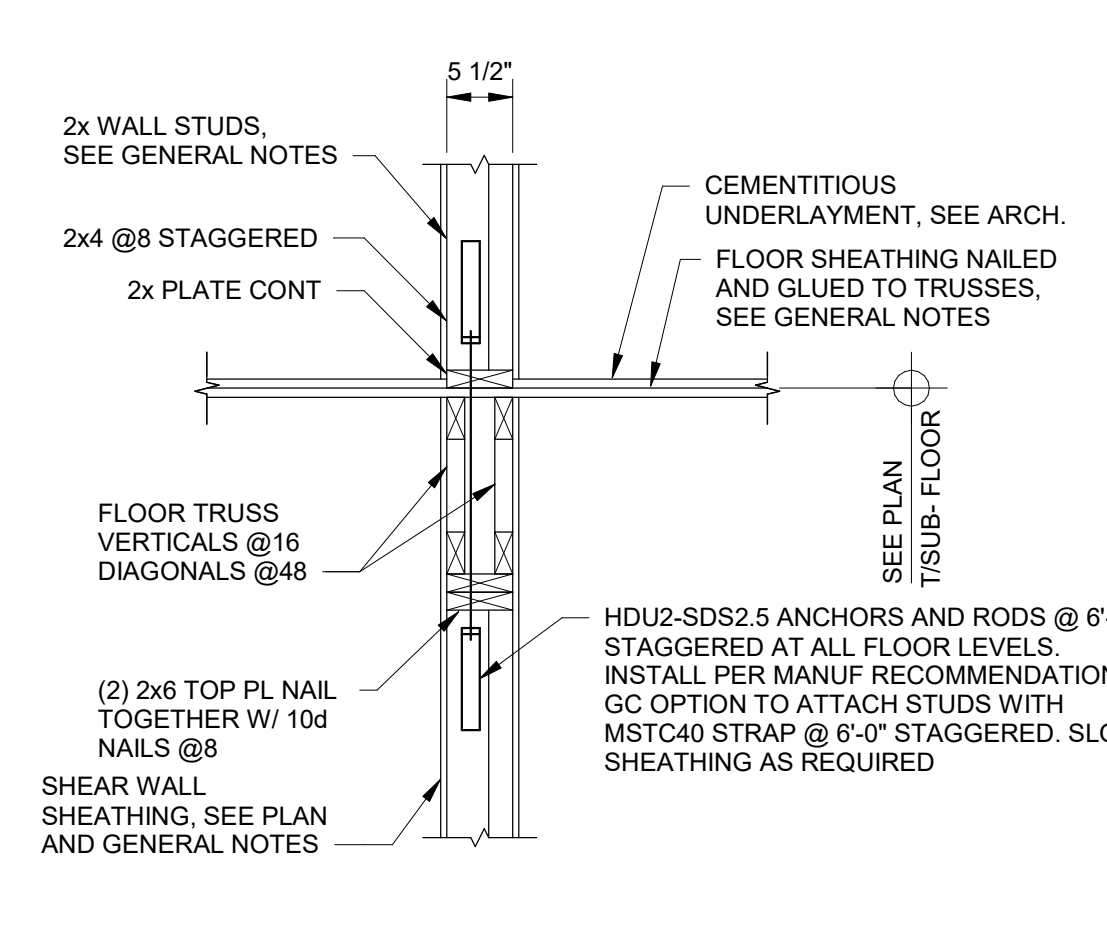
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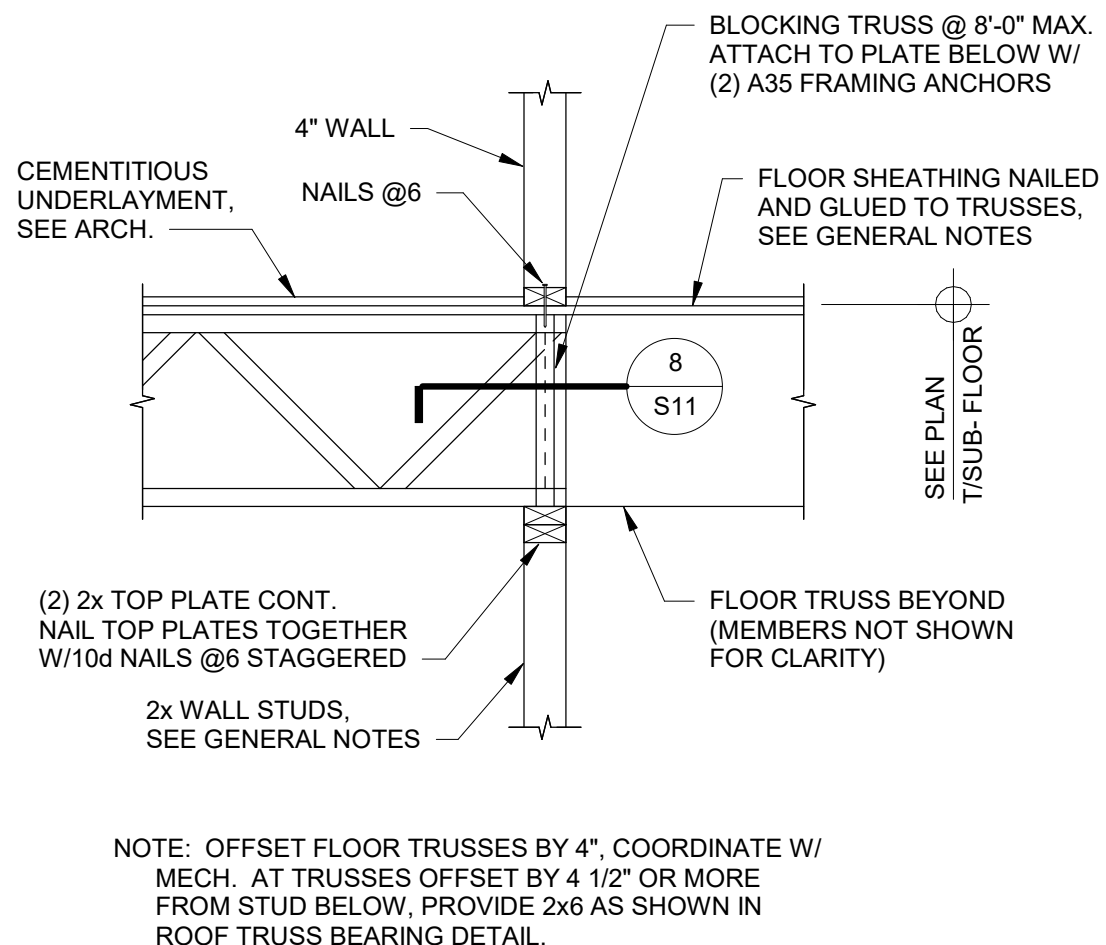
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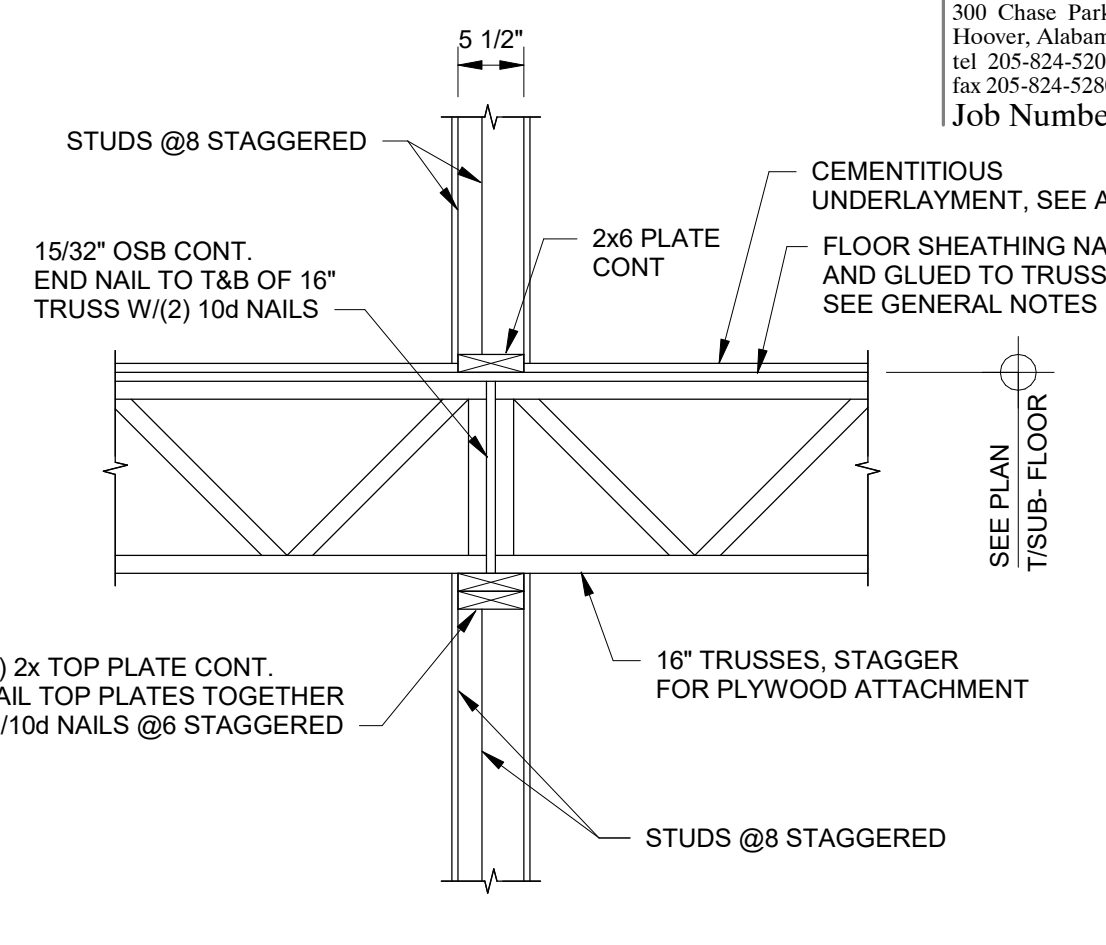
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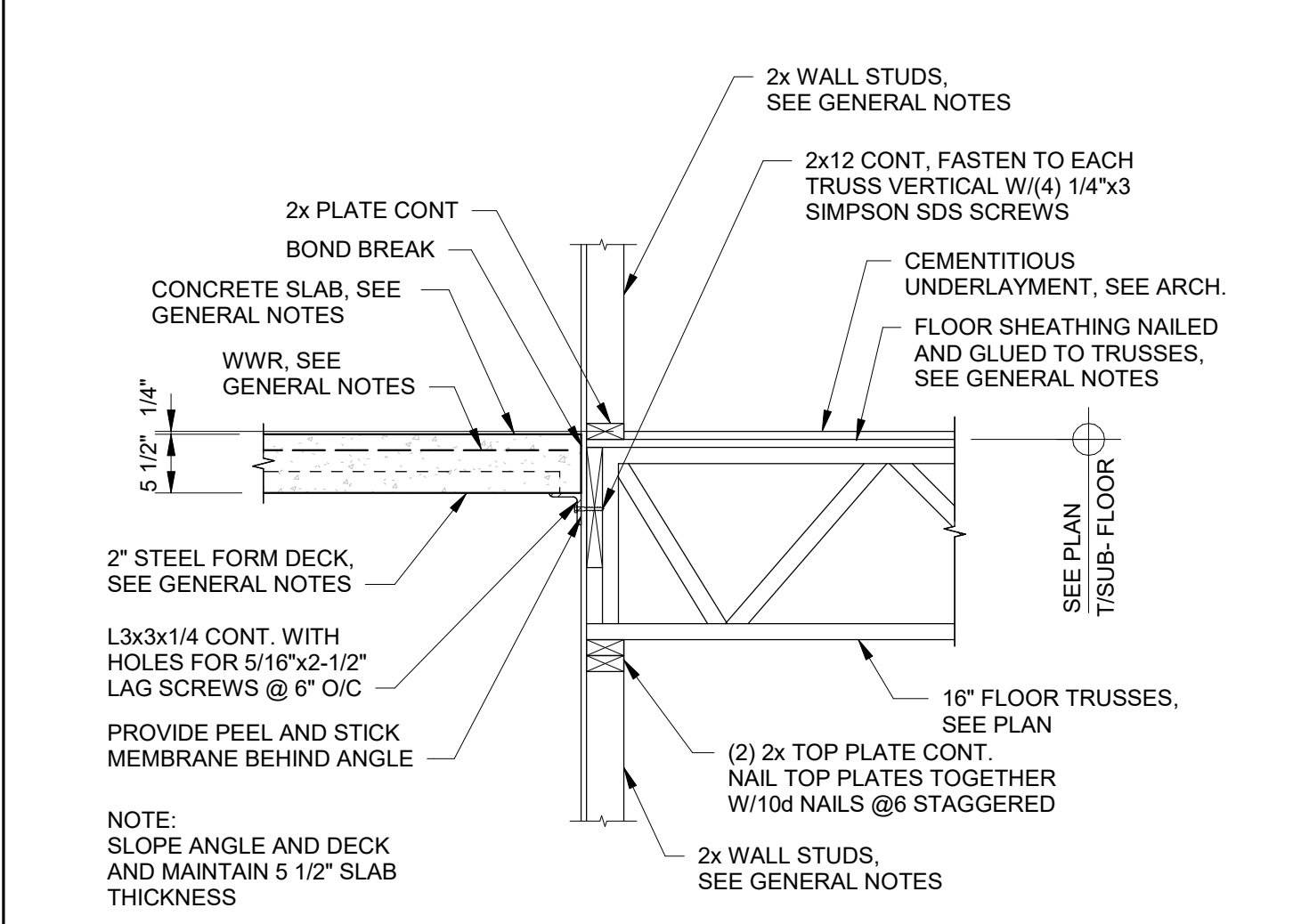
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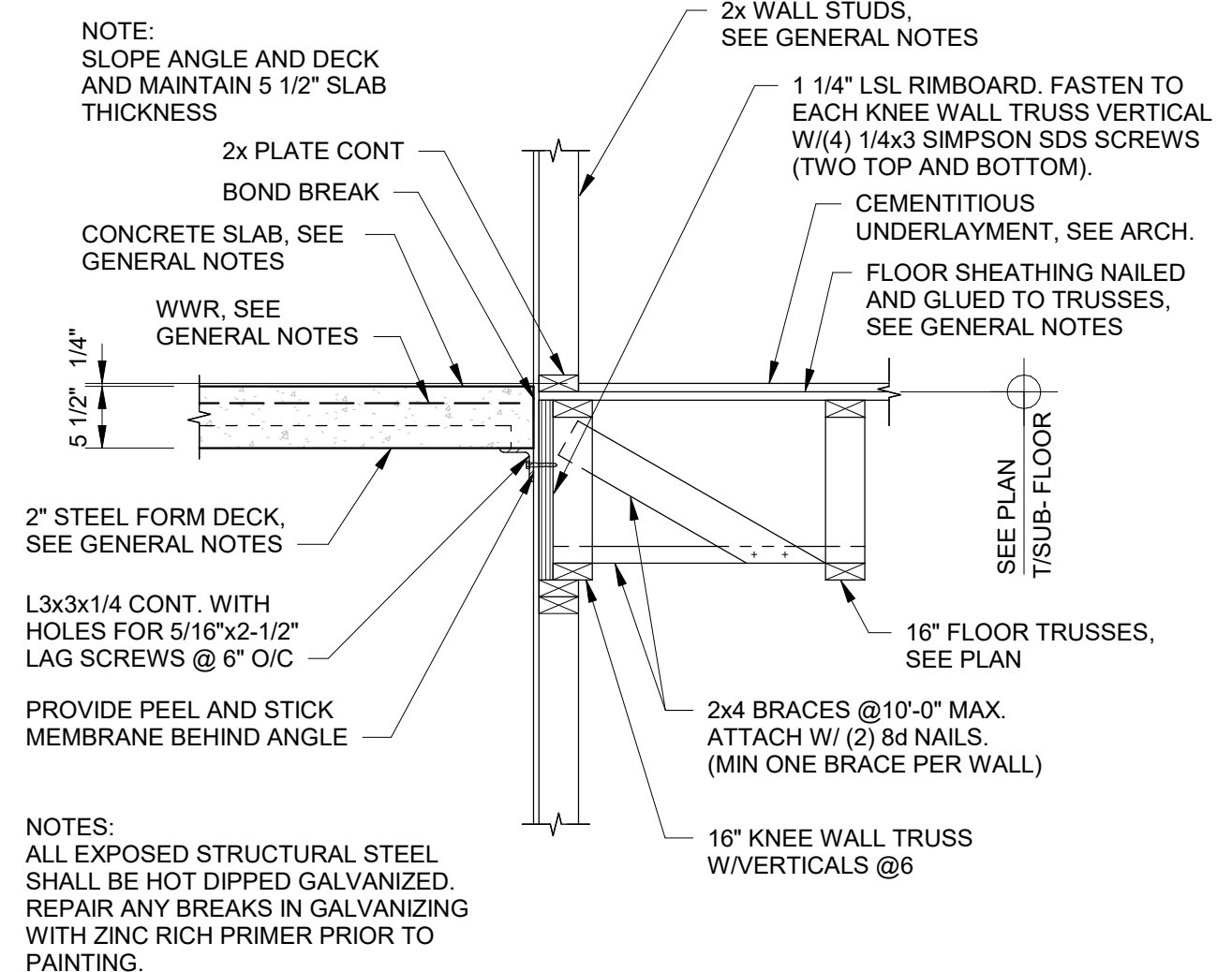
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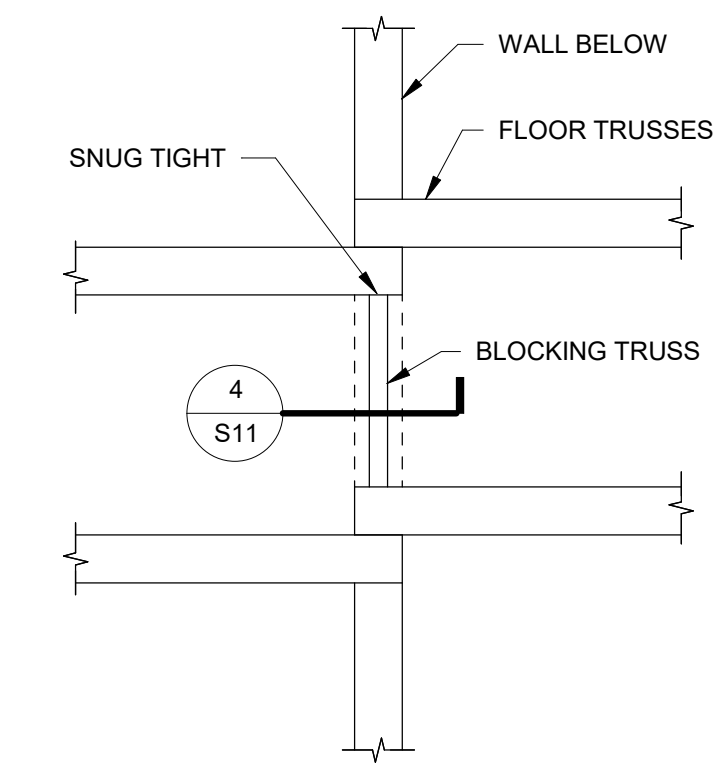
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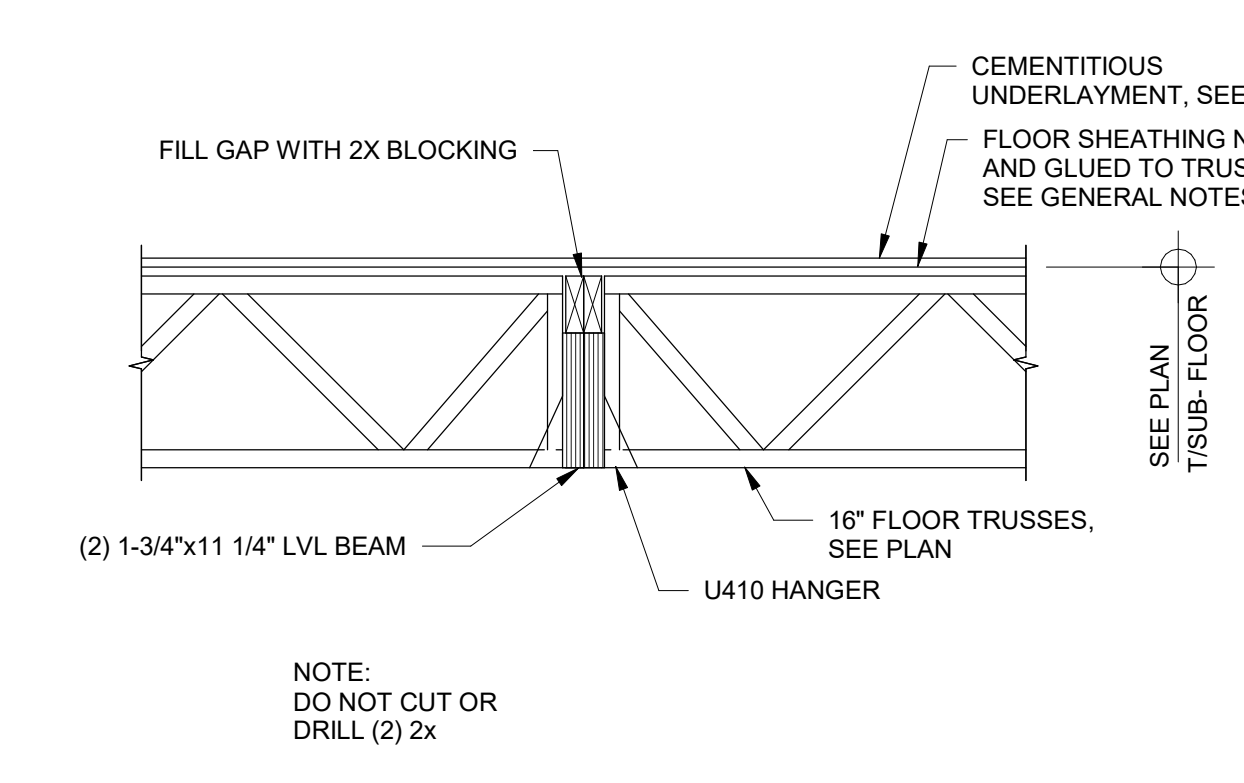
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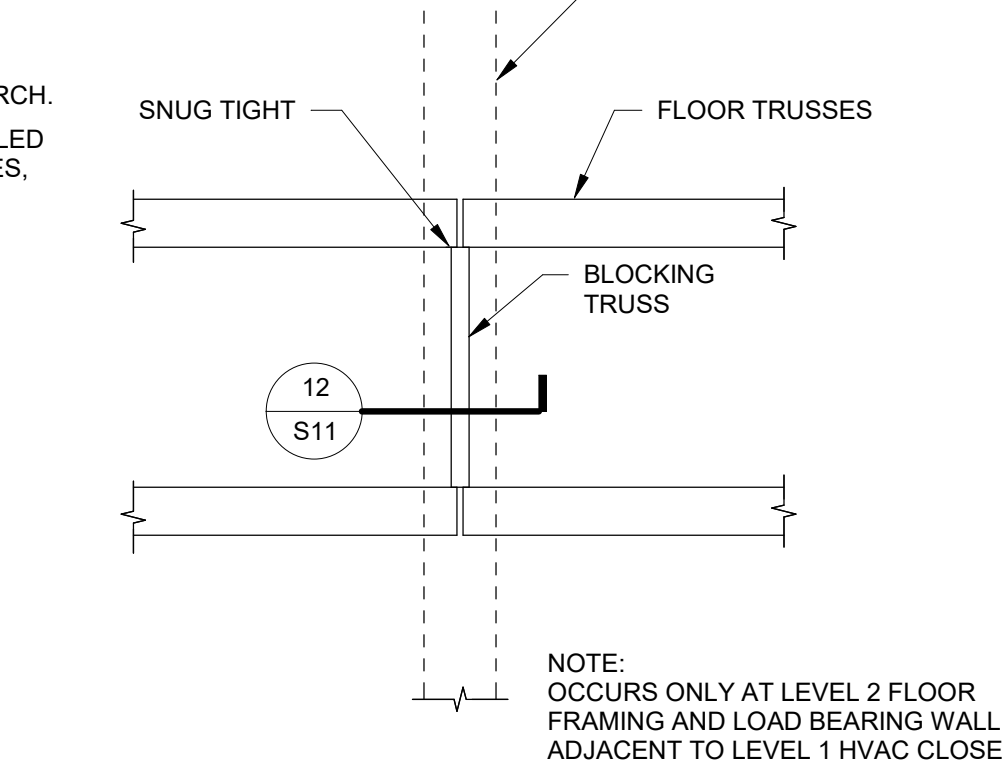
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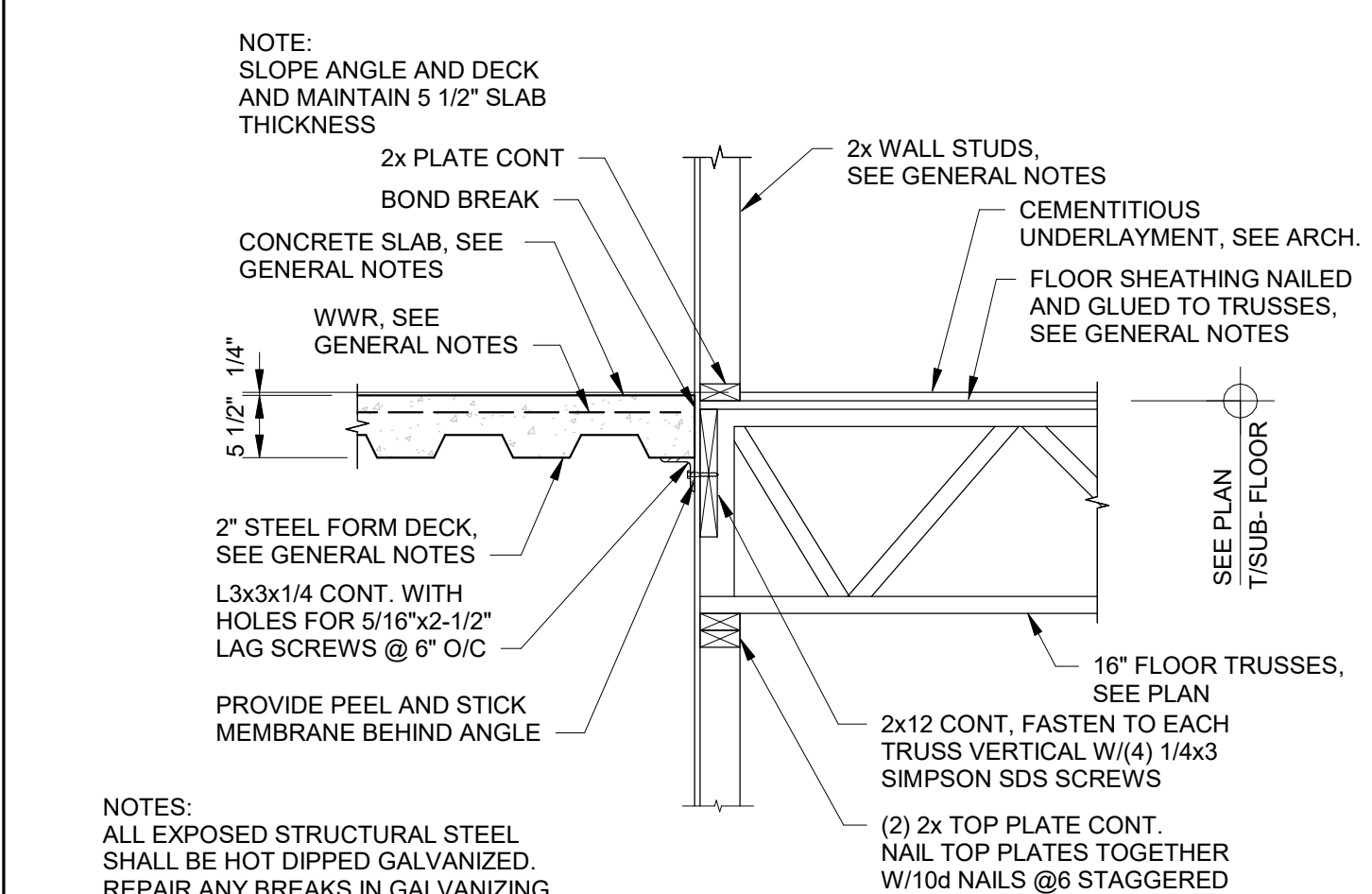
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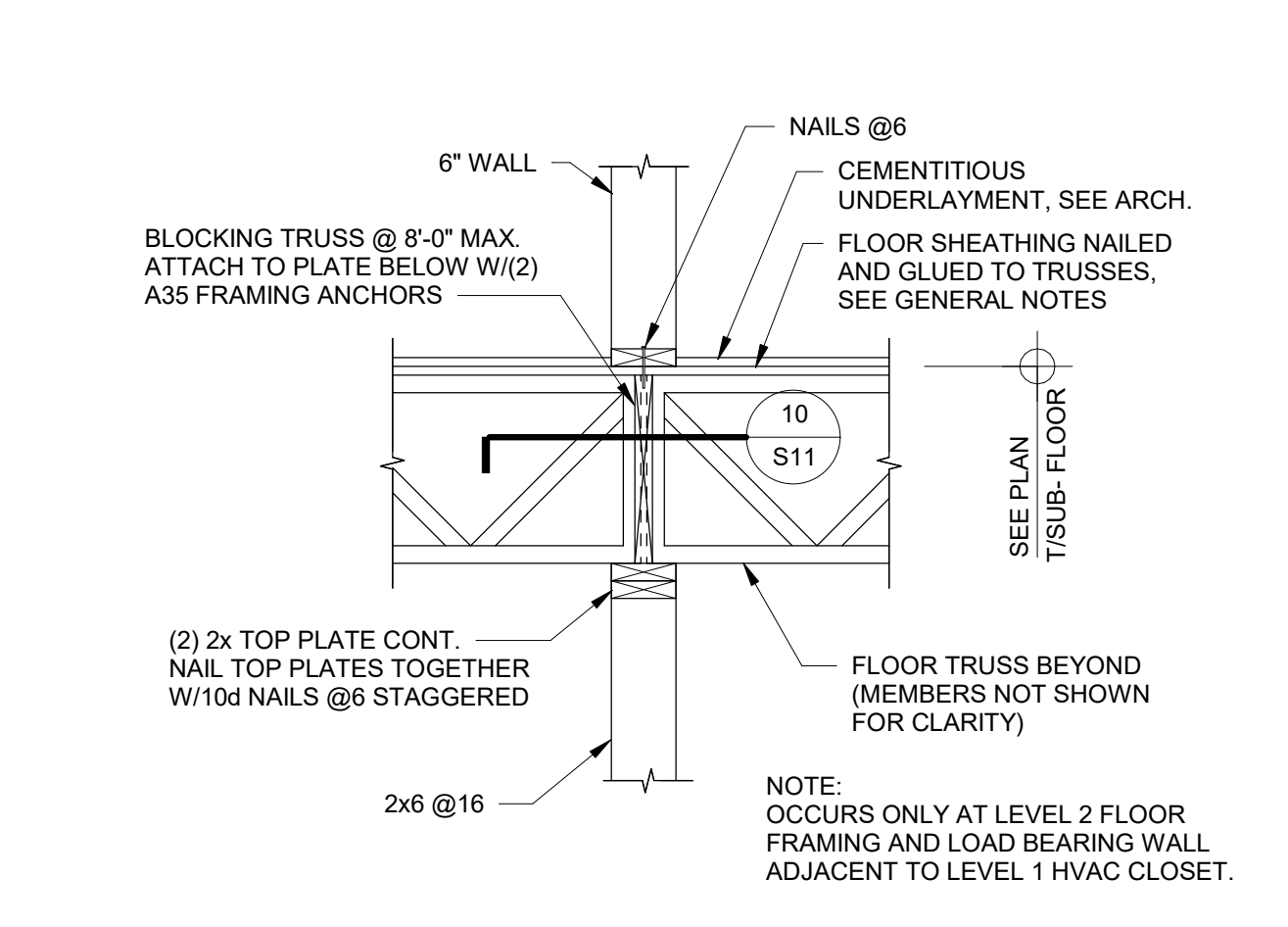
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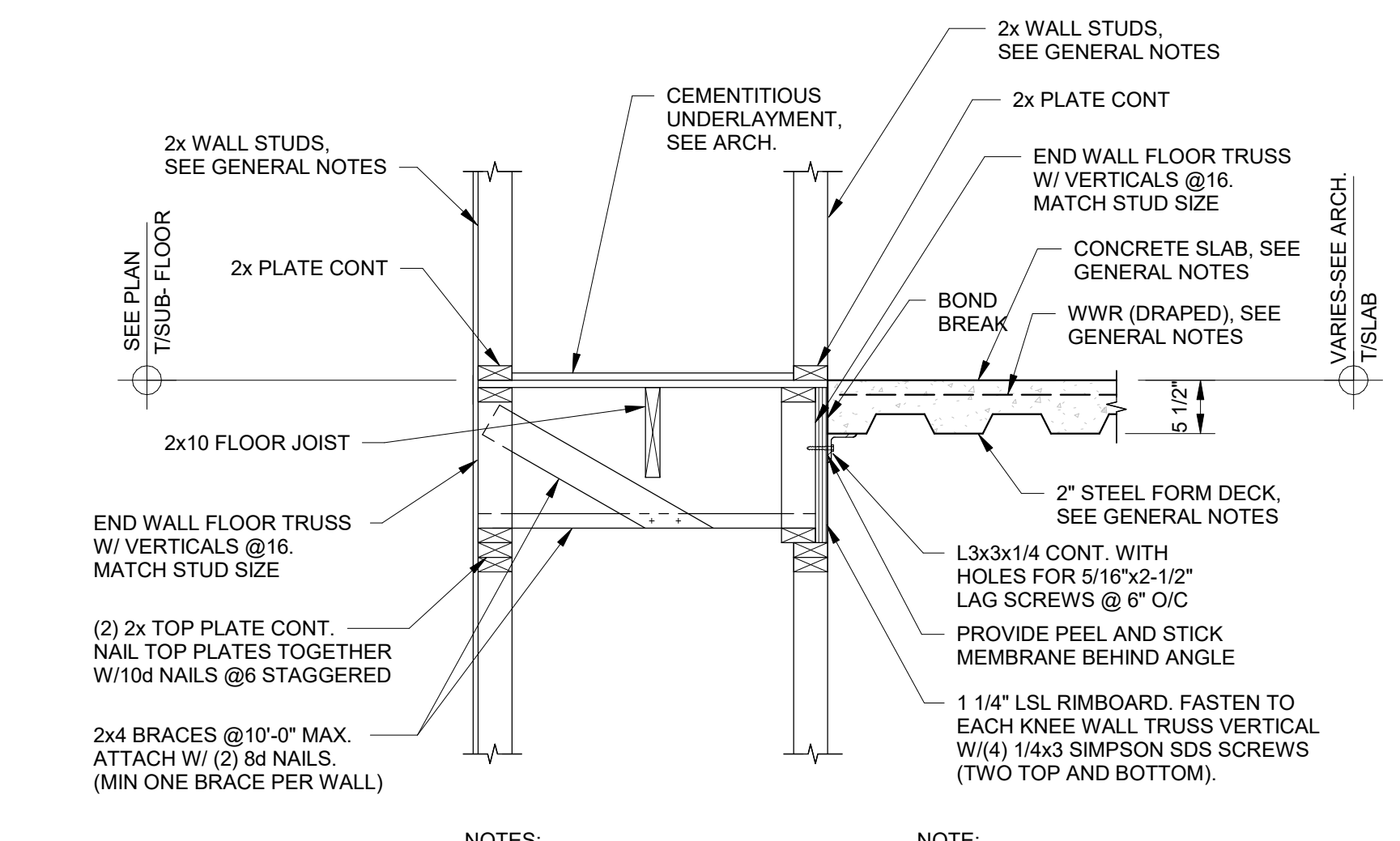
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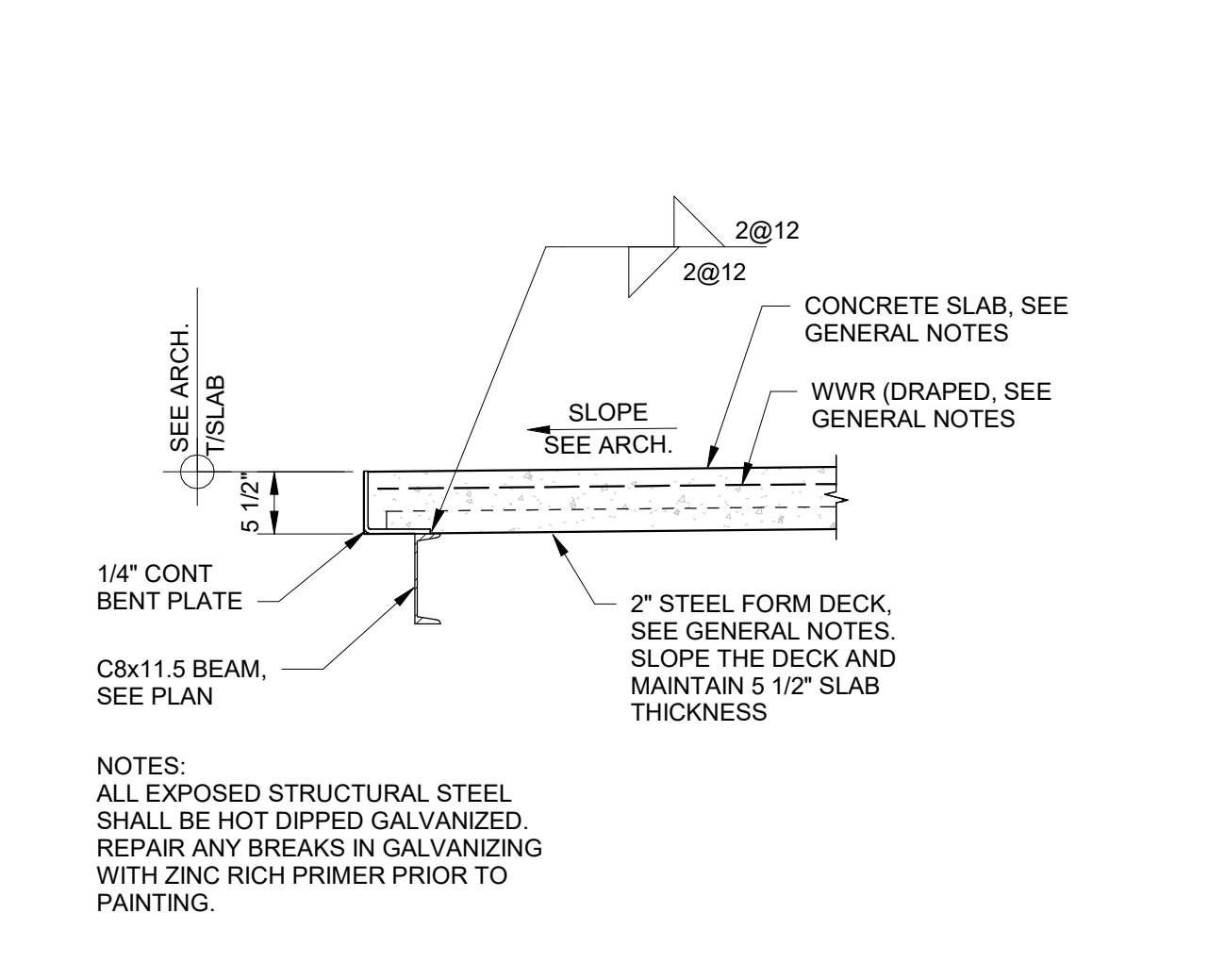
SECTION 11
3/4" = 1'-0"



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



SECTION 13
3/4" = 1'-0"



SECTION 14
3/4" = 1'-0"

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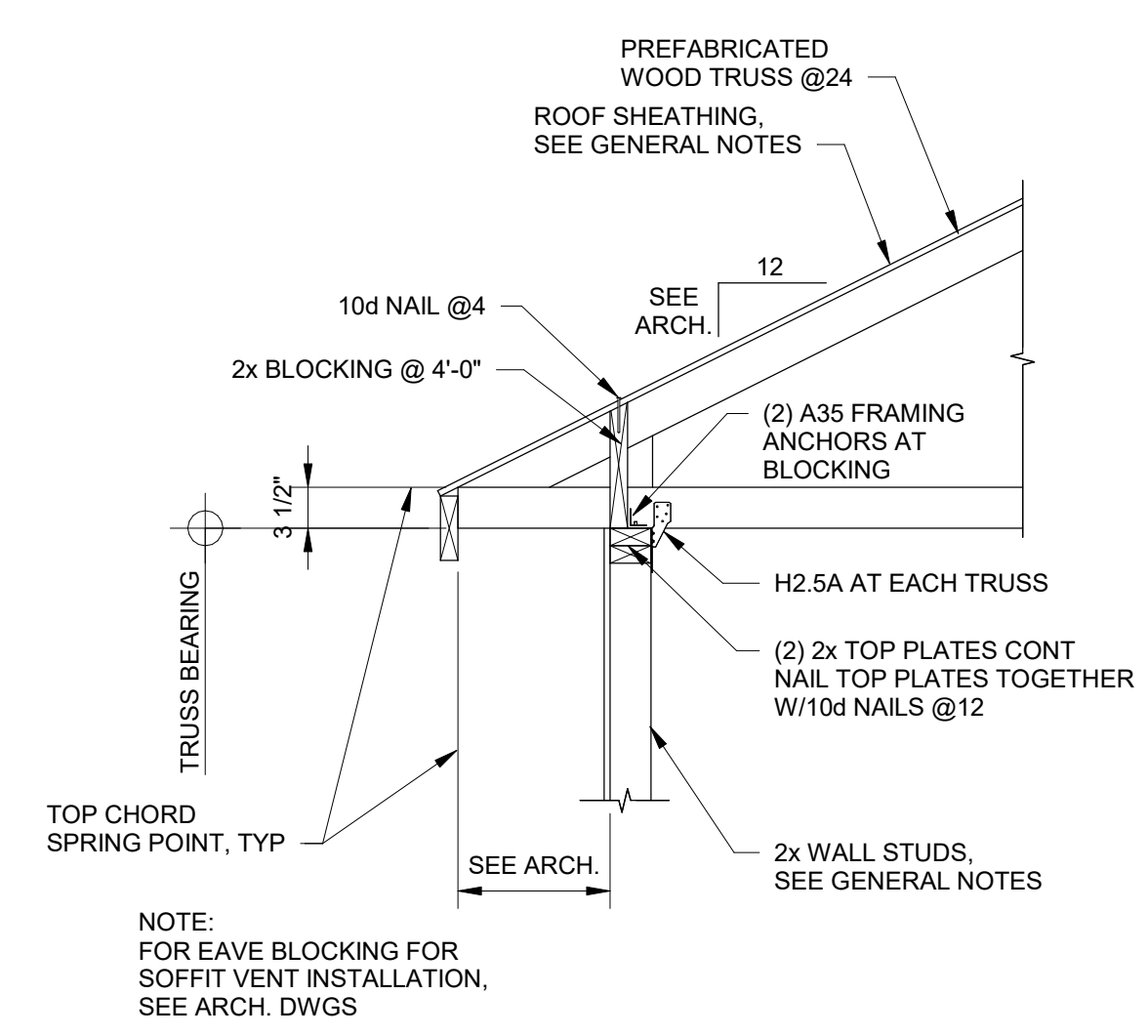
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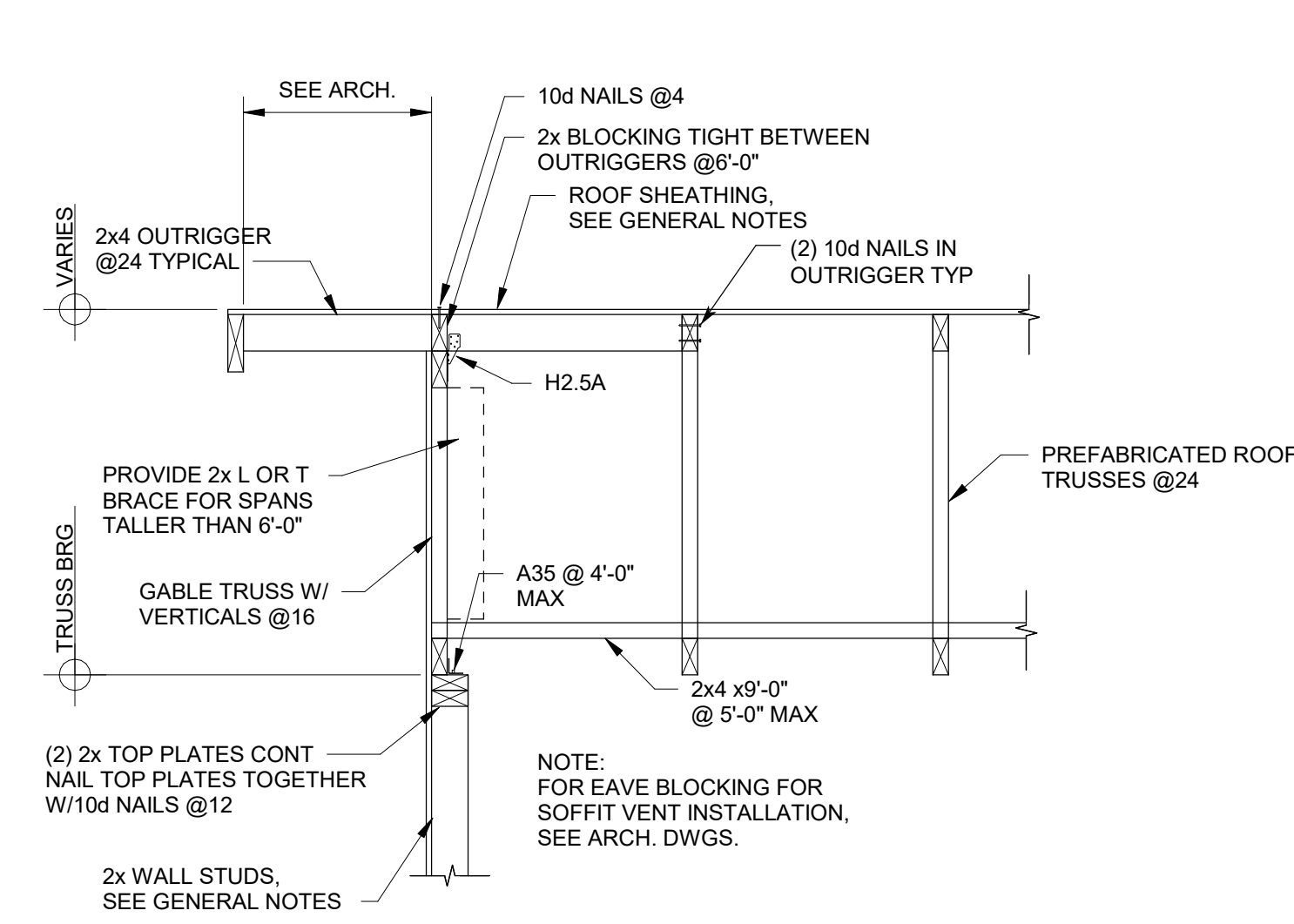
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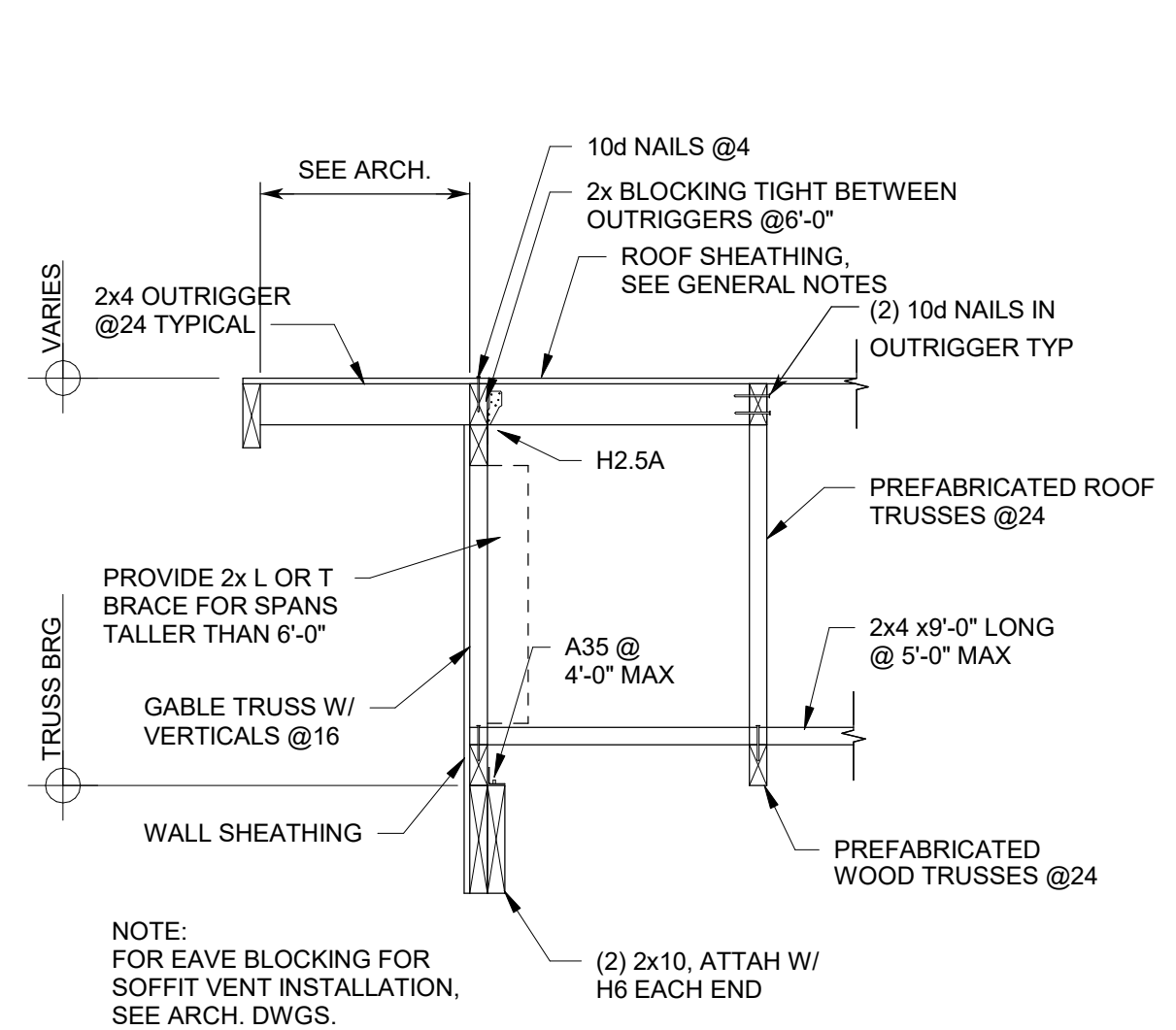
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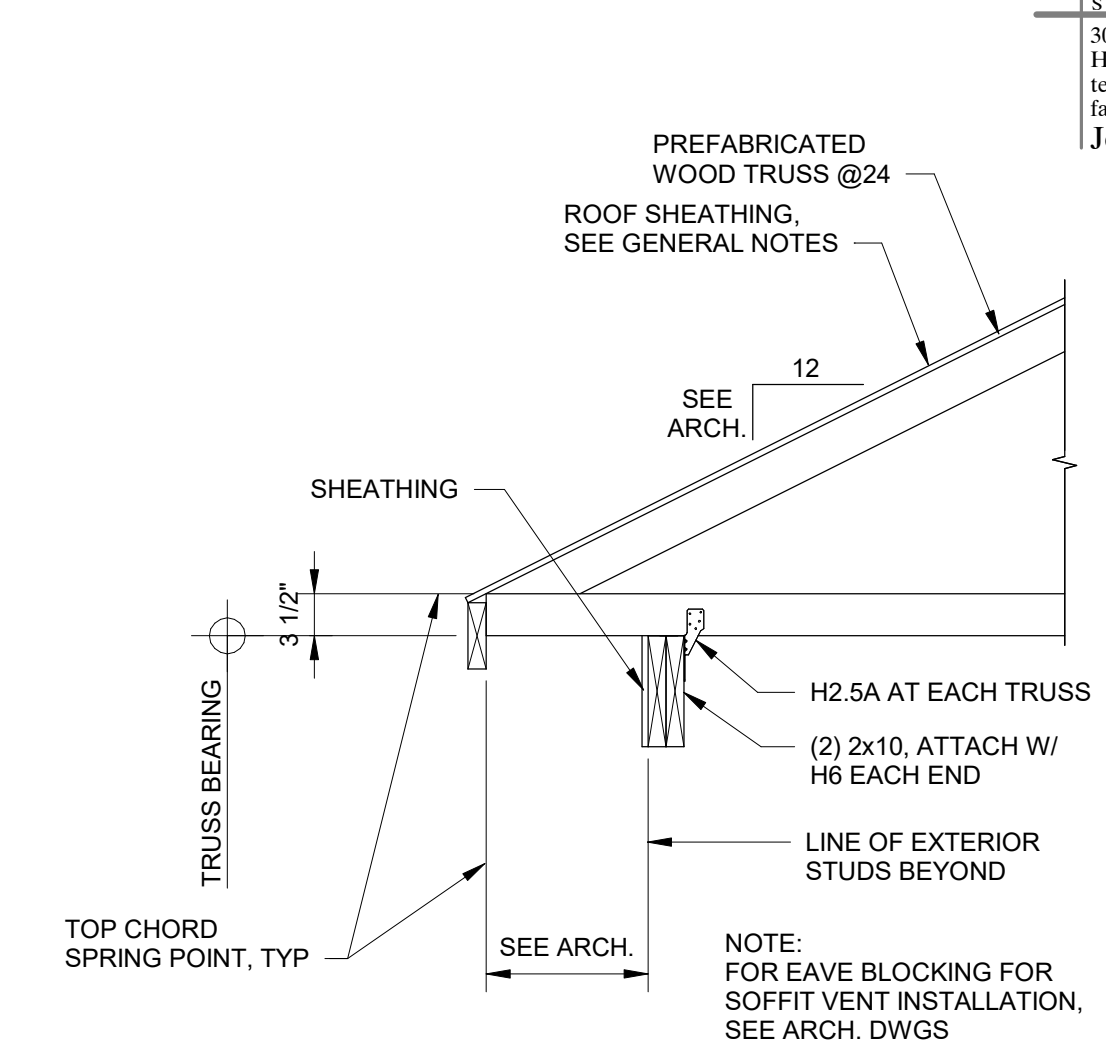
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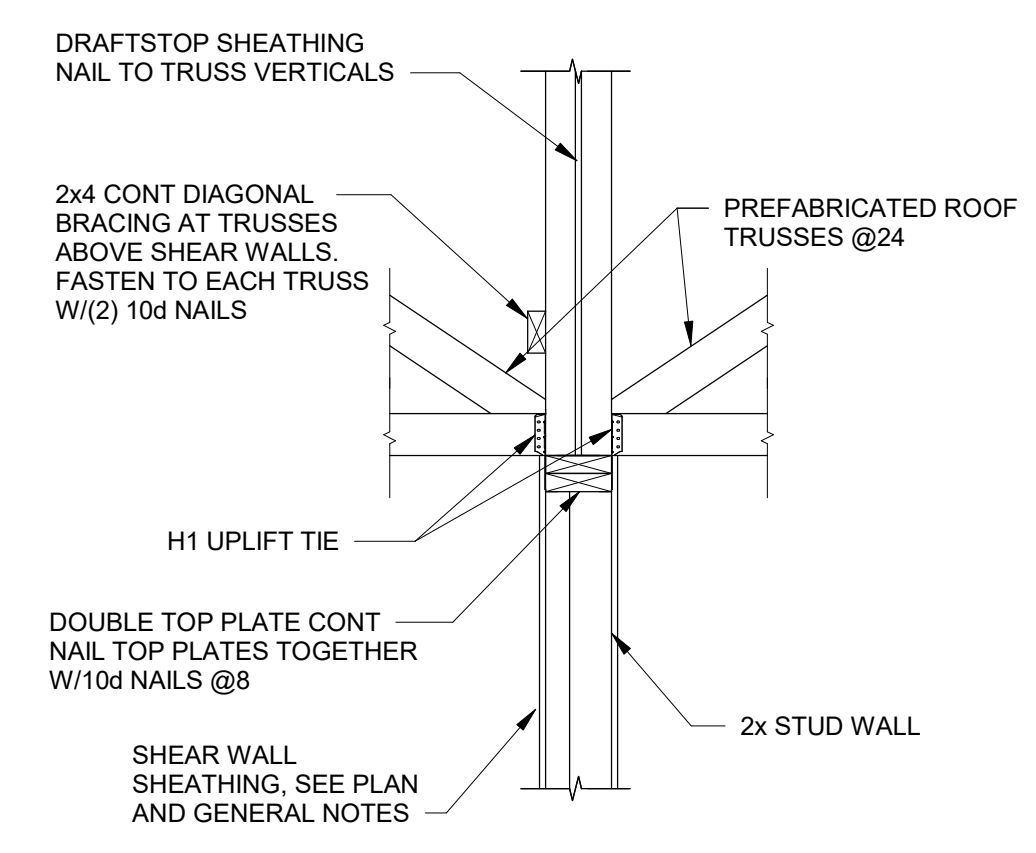
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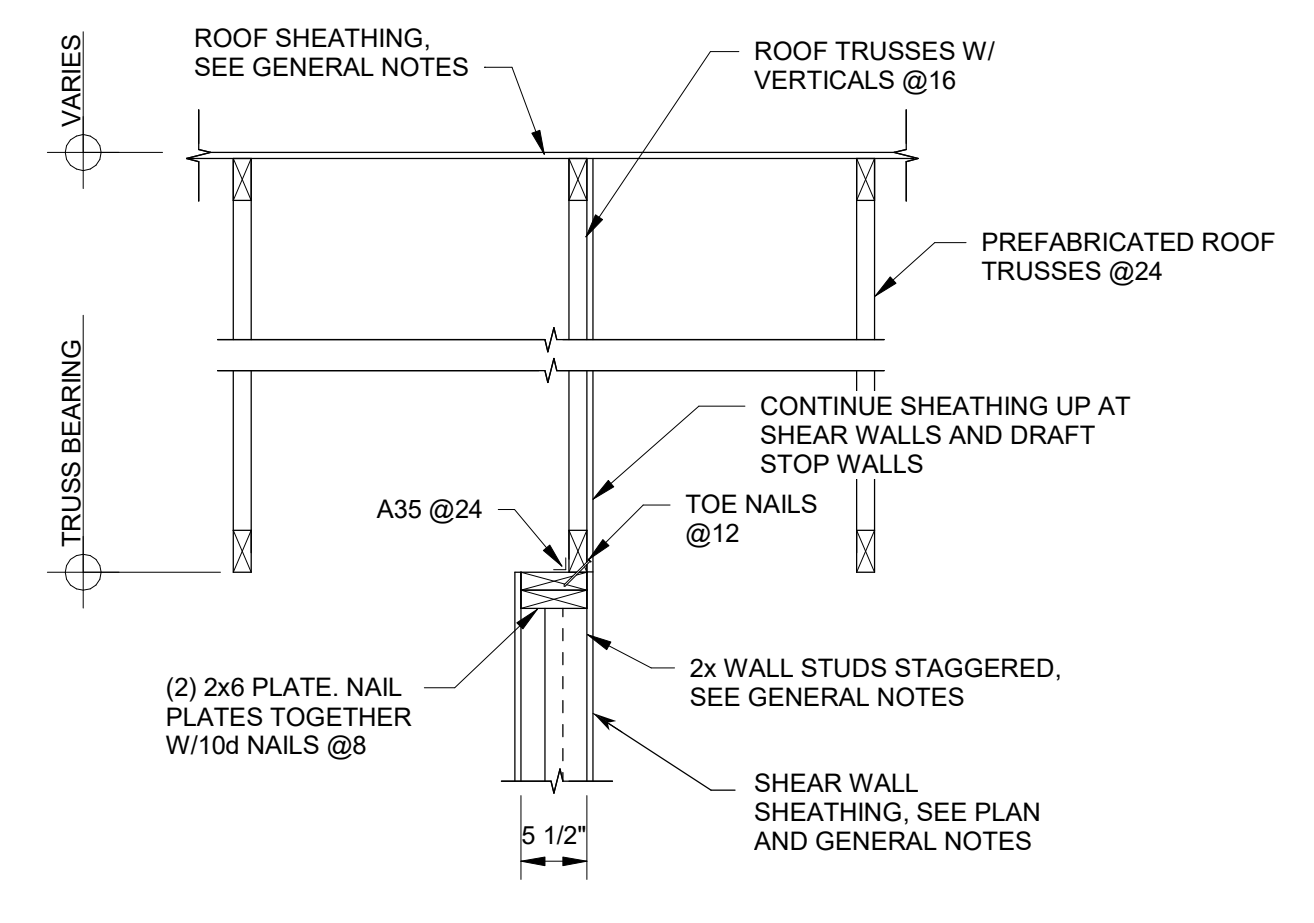
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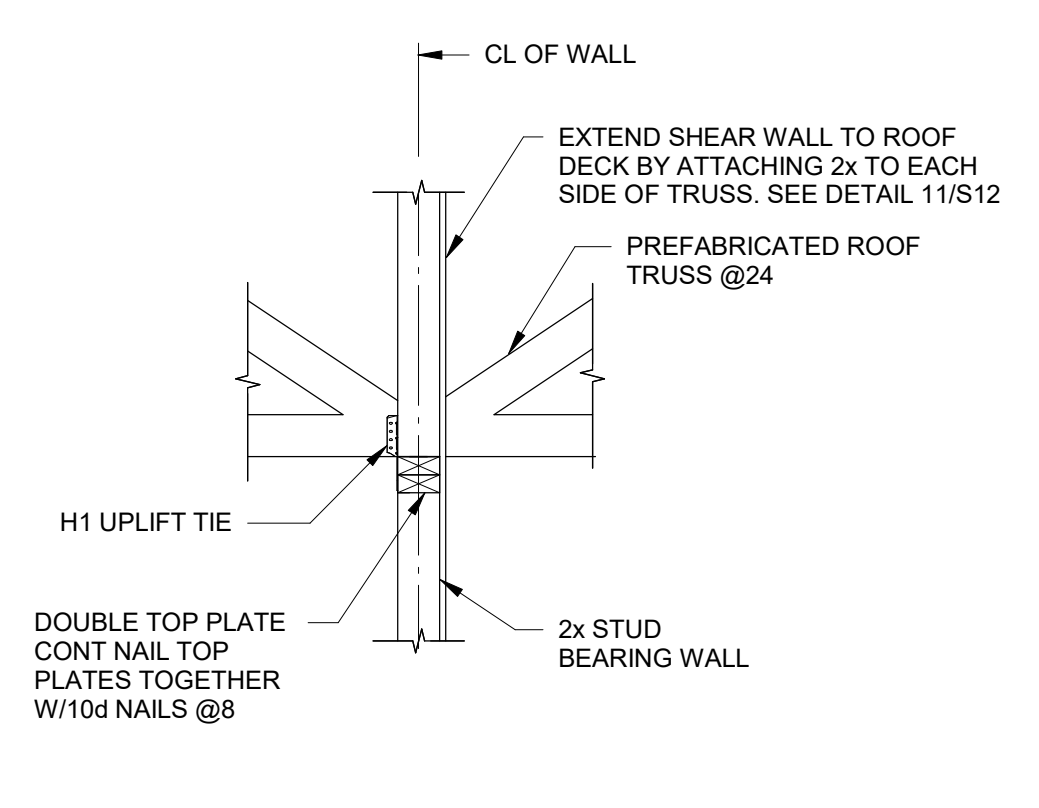
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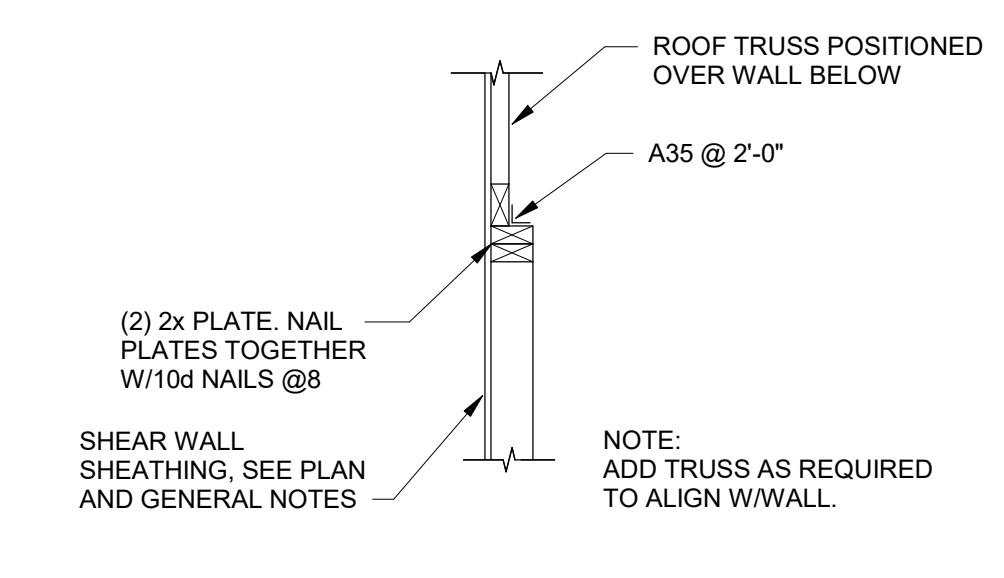
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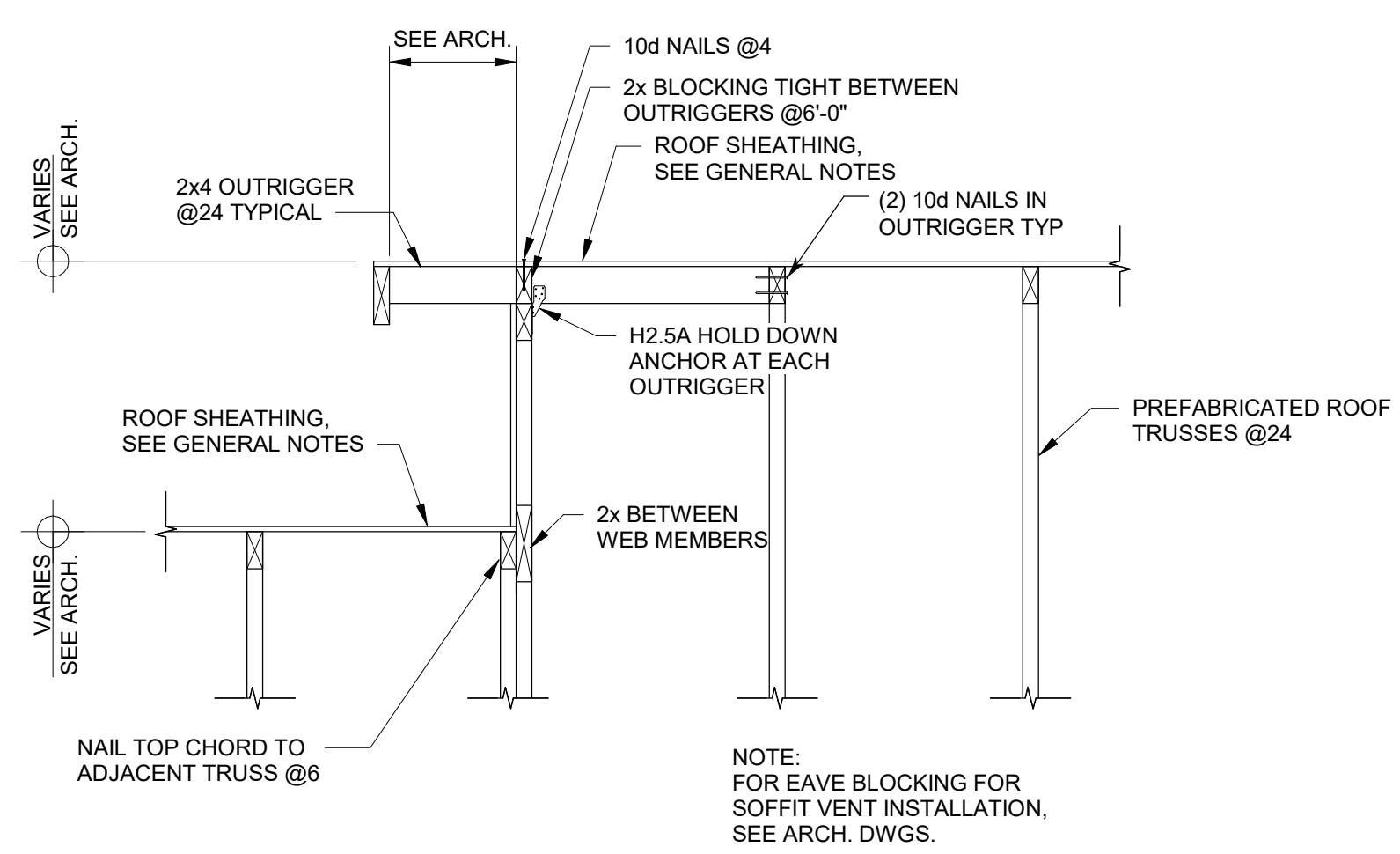
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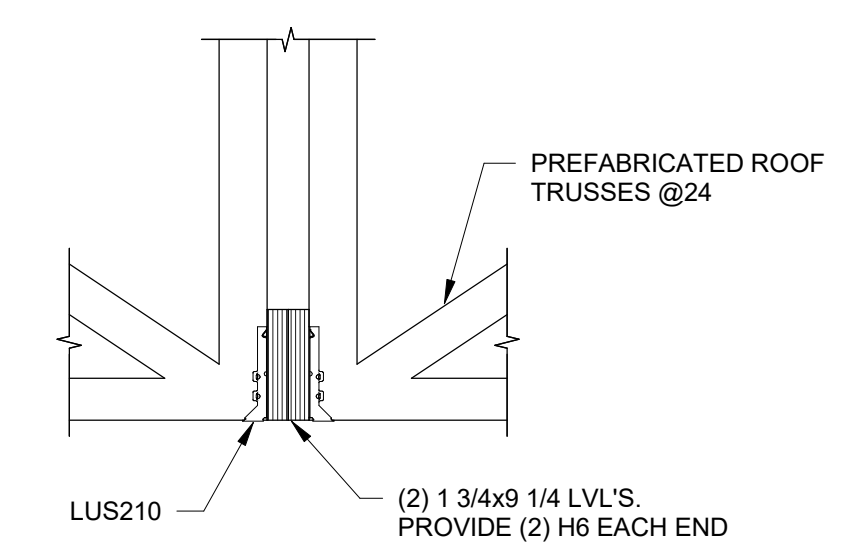
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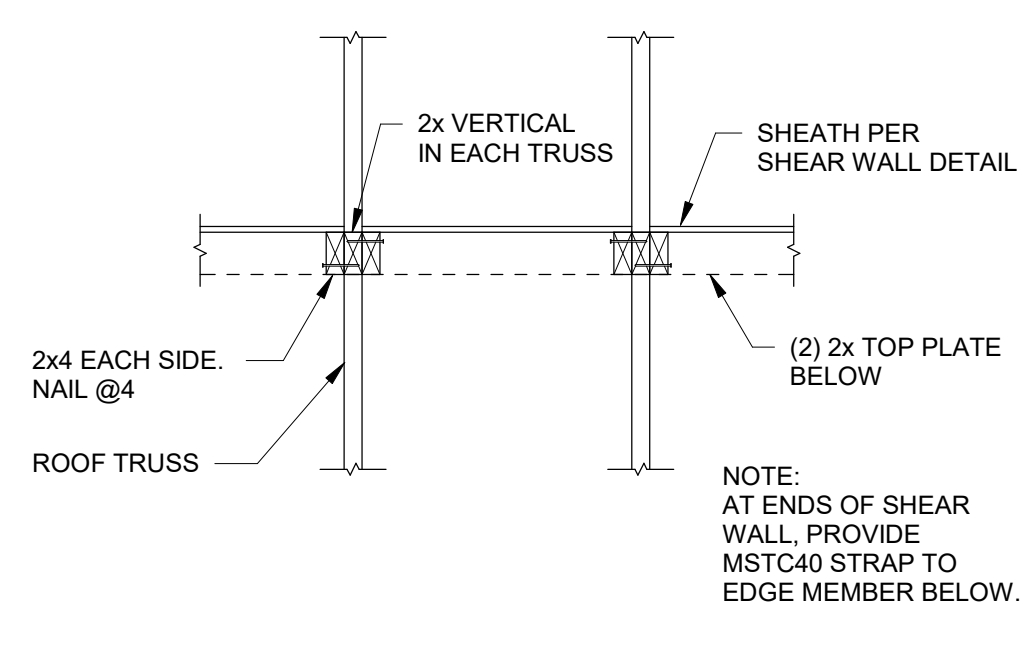
SECTION 8
 3/4" = 1'-0"



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



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



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

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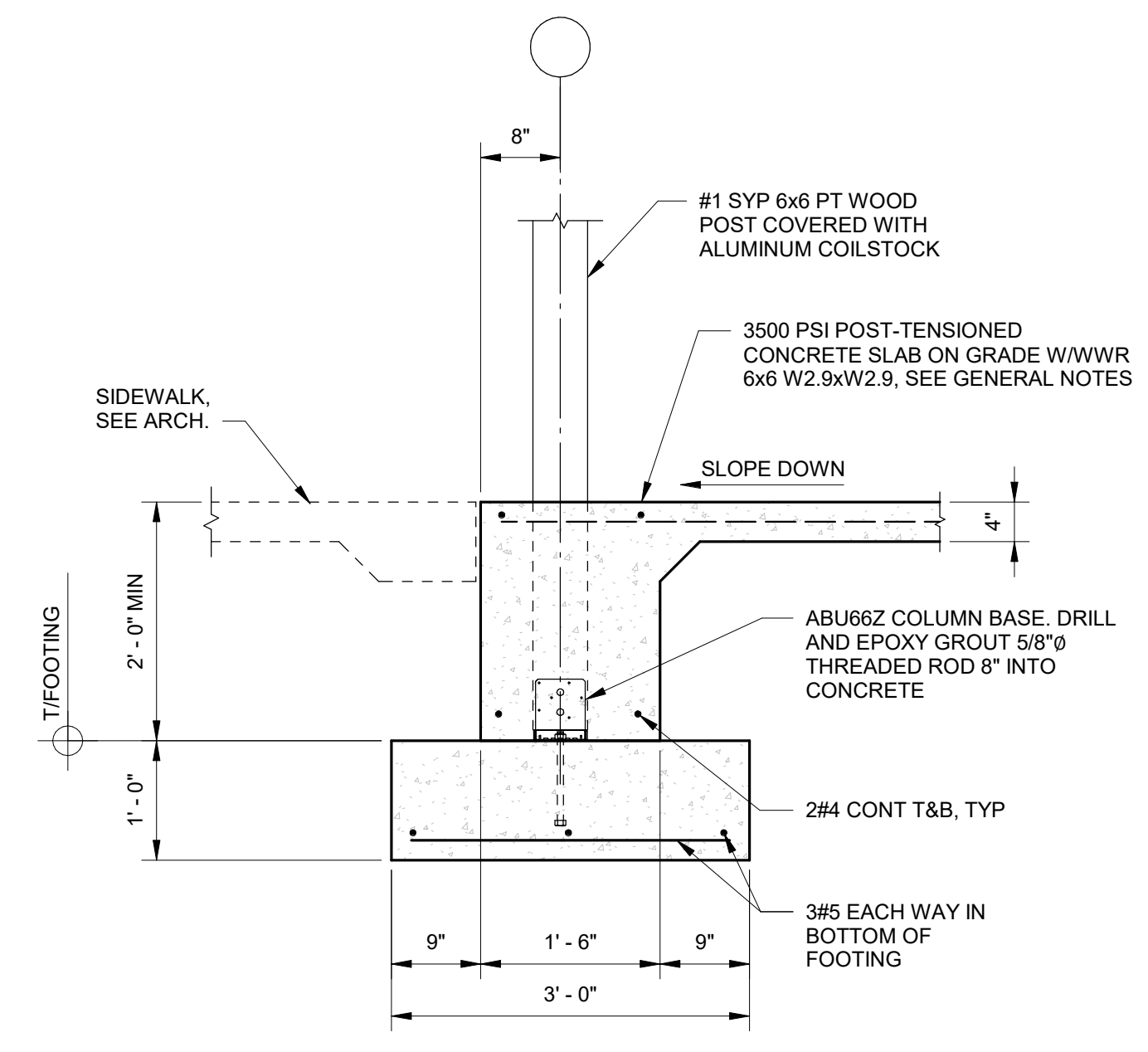
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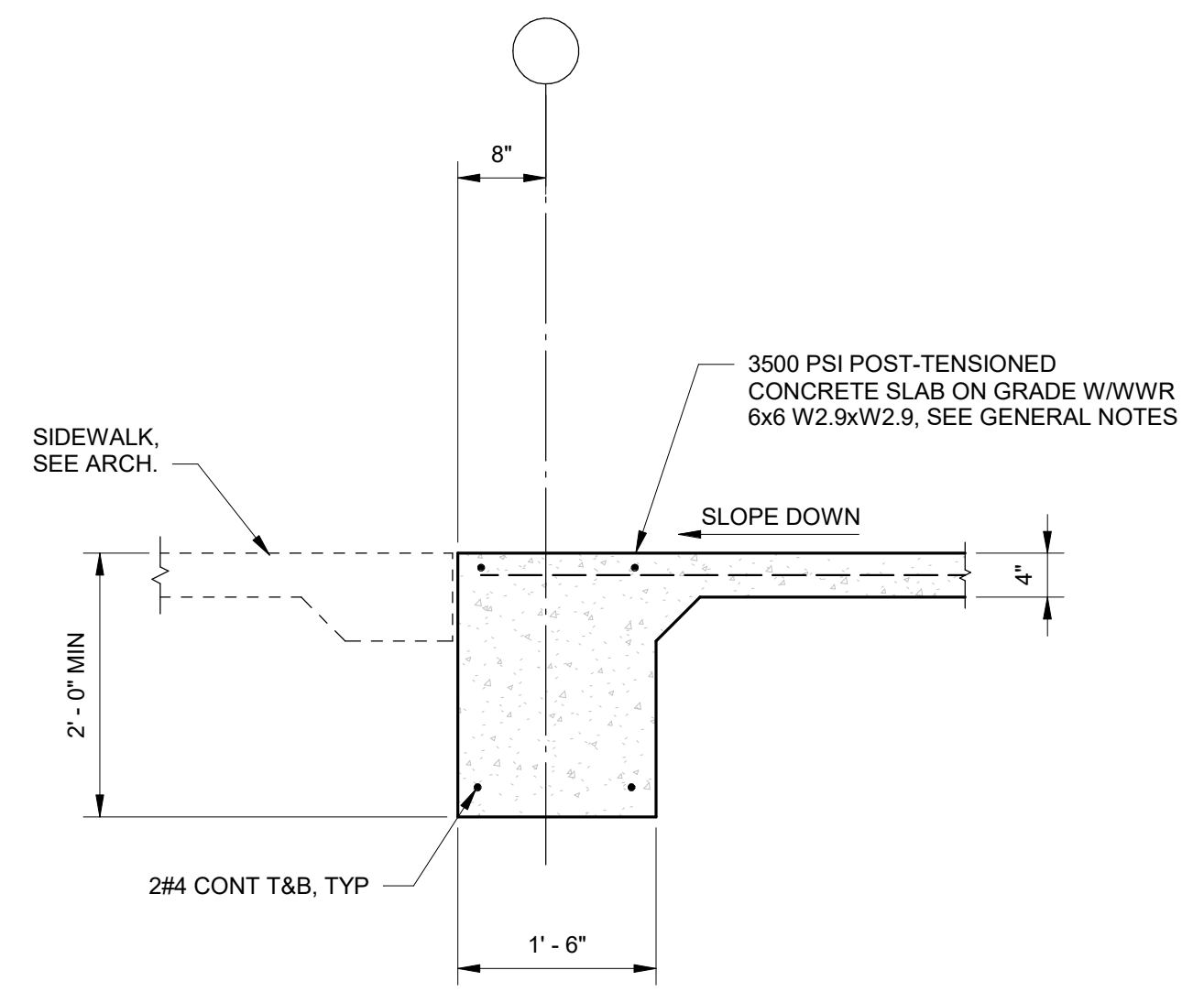
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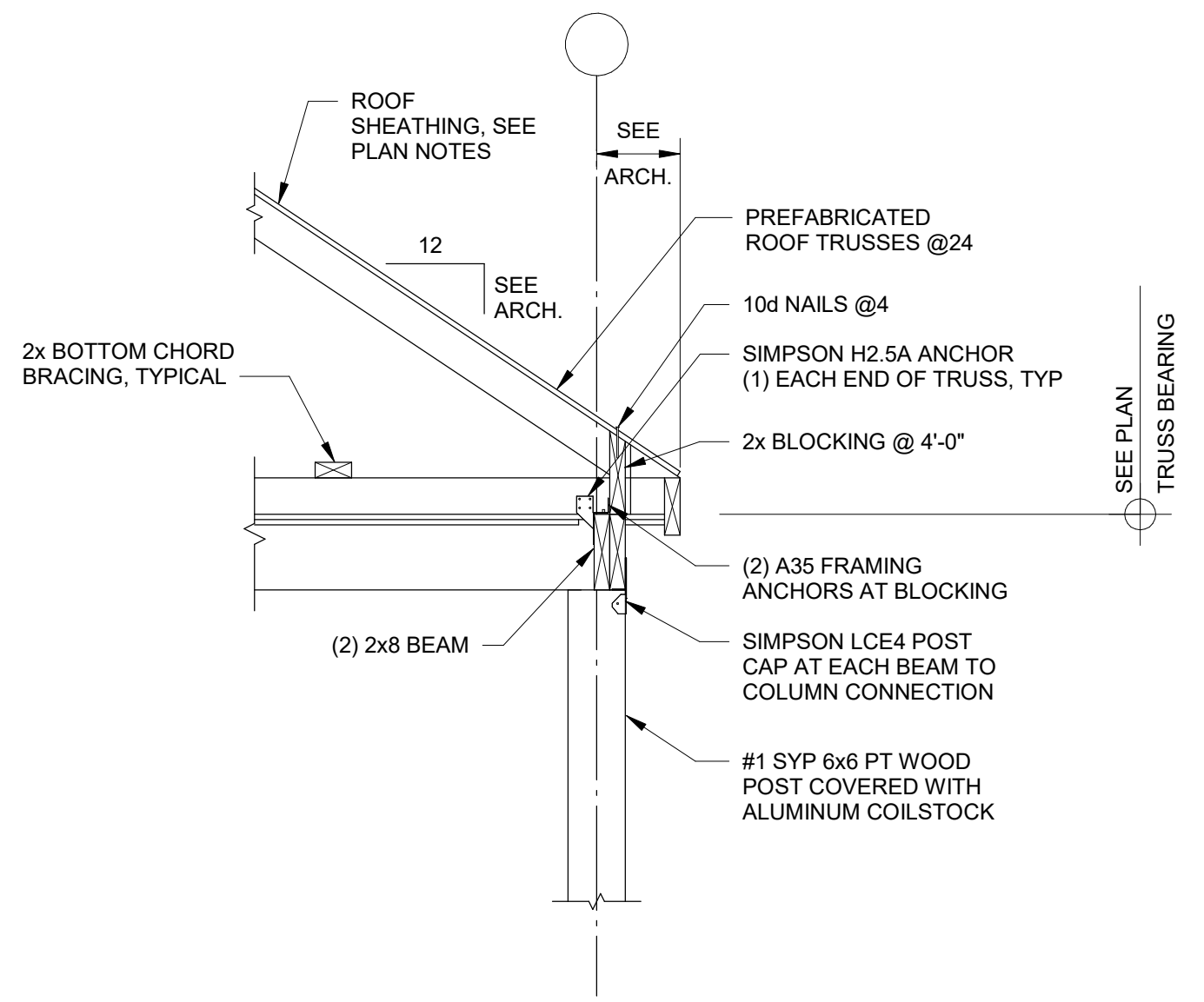
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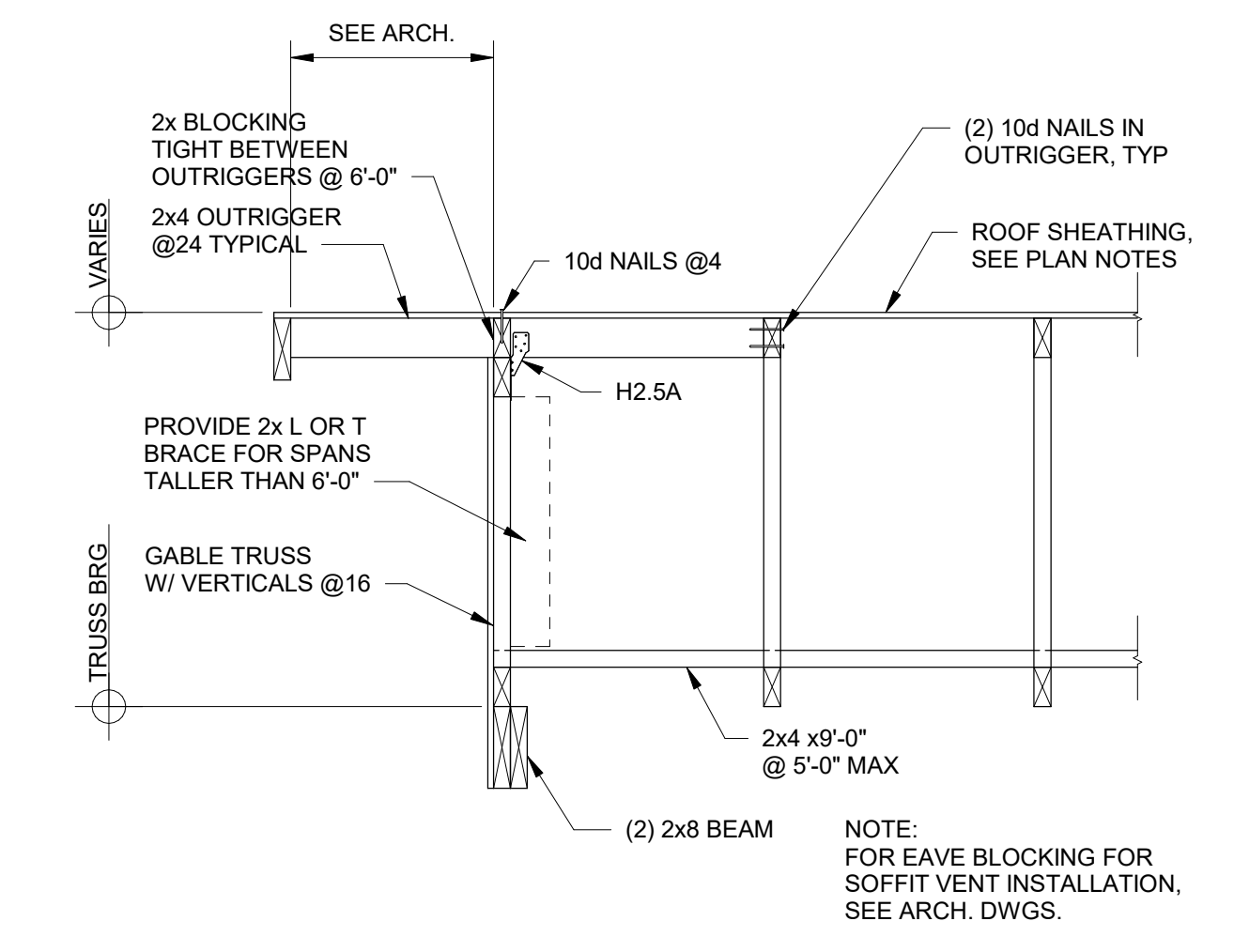
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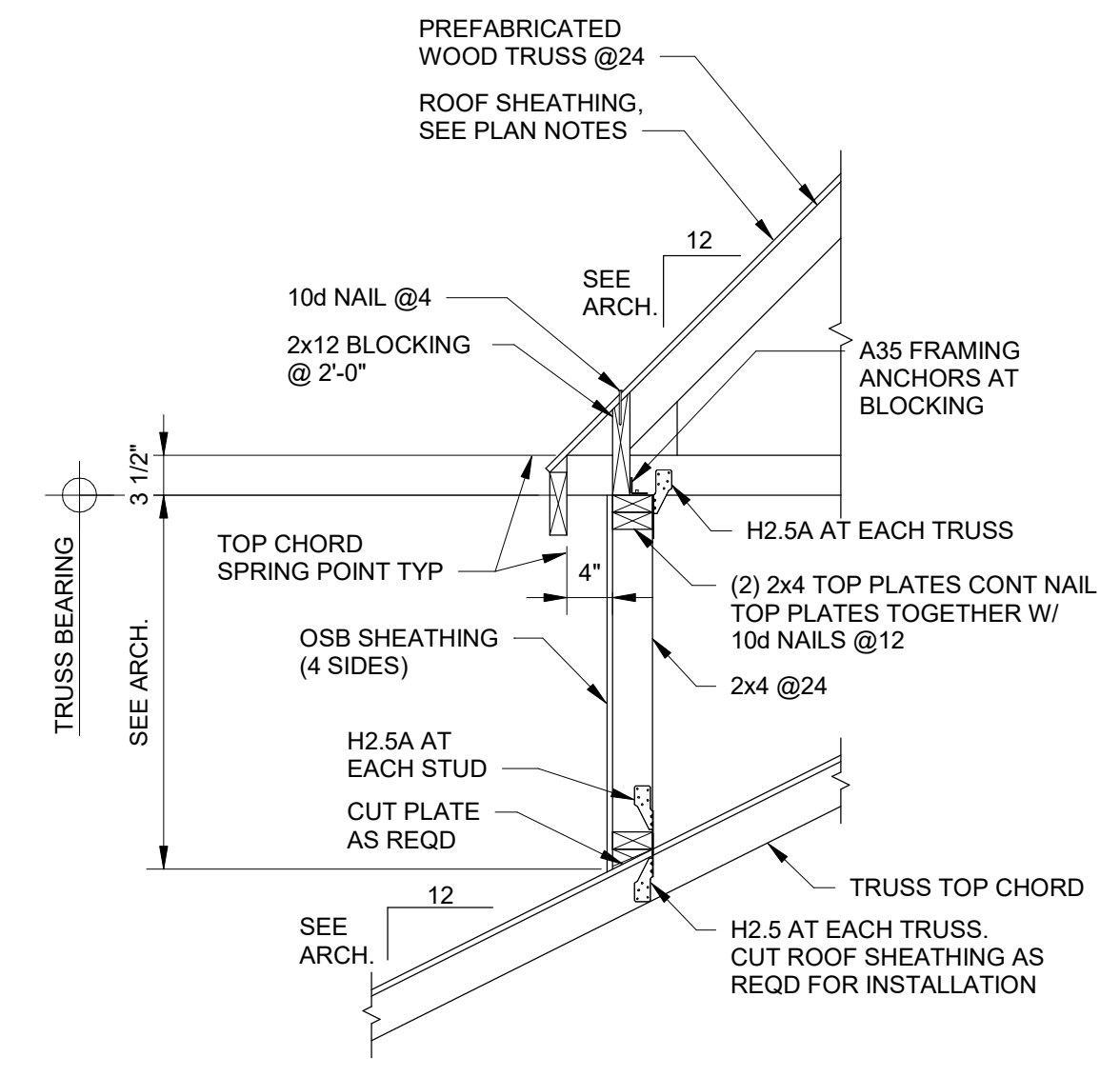
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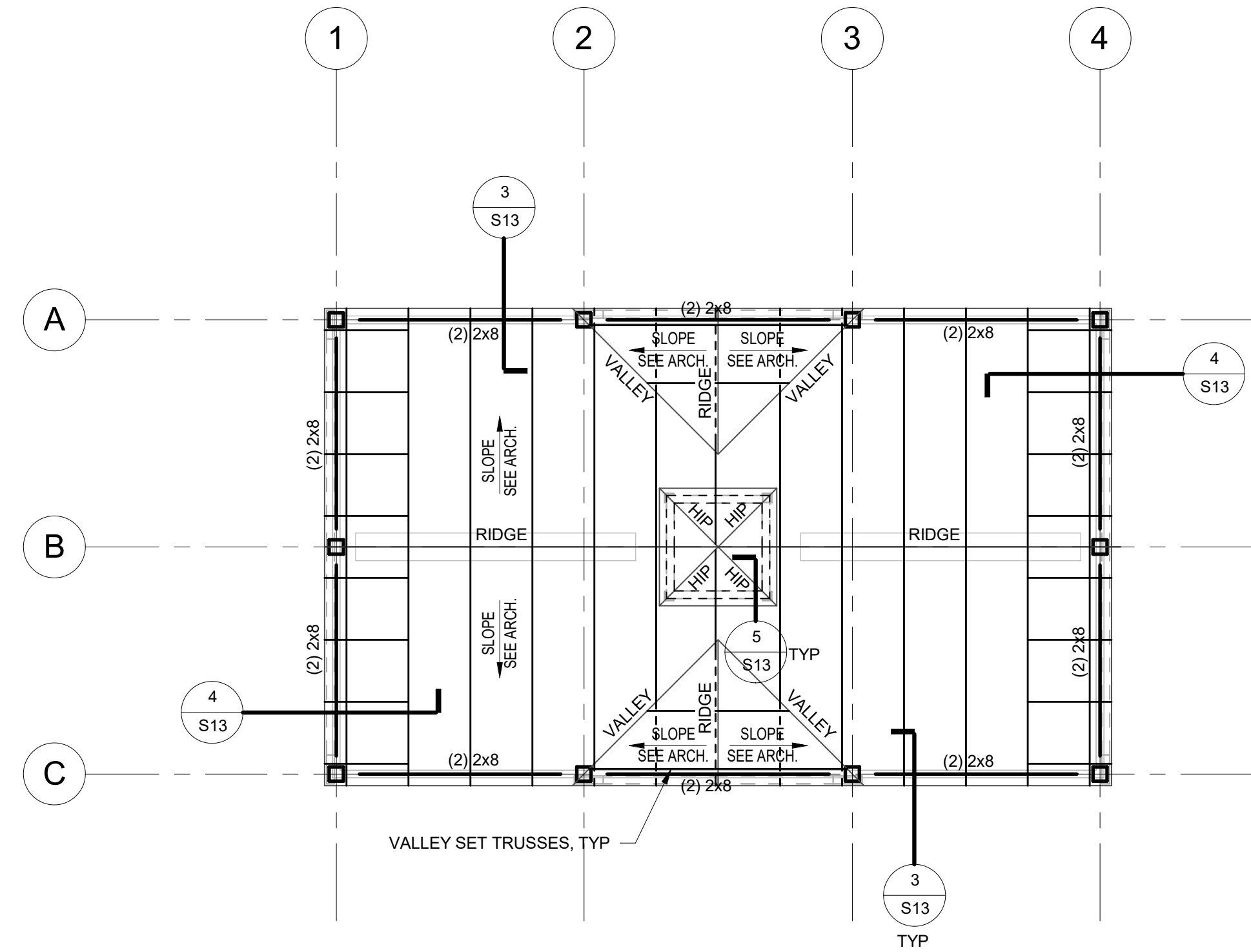
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3/4" = 1'-0"



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

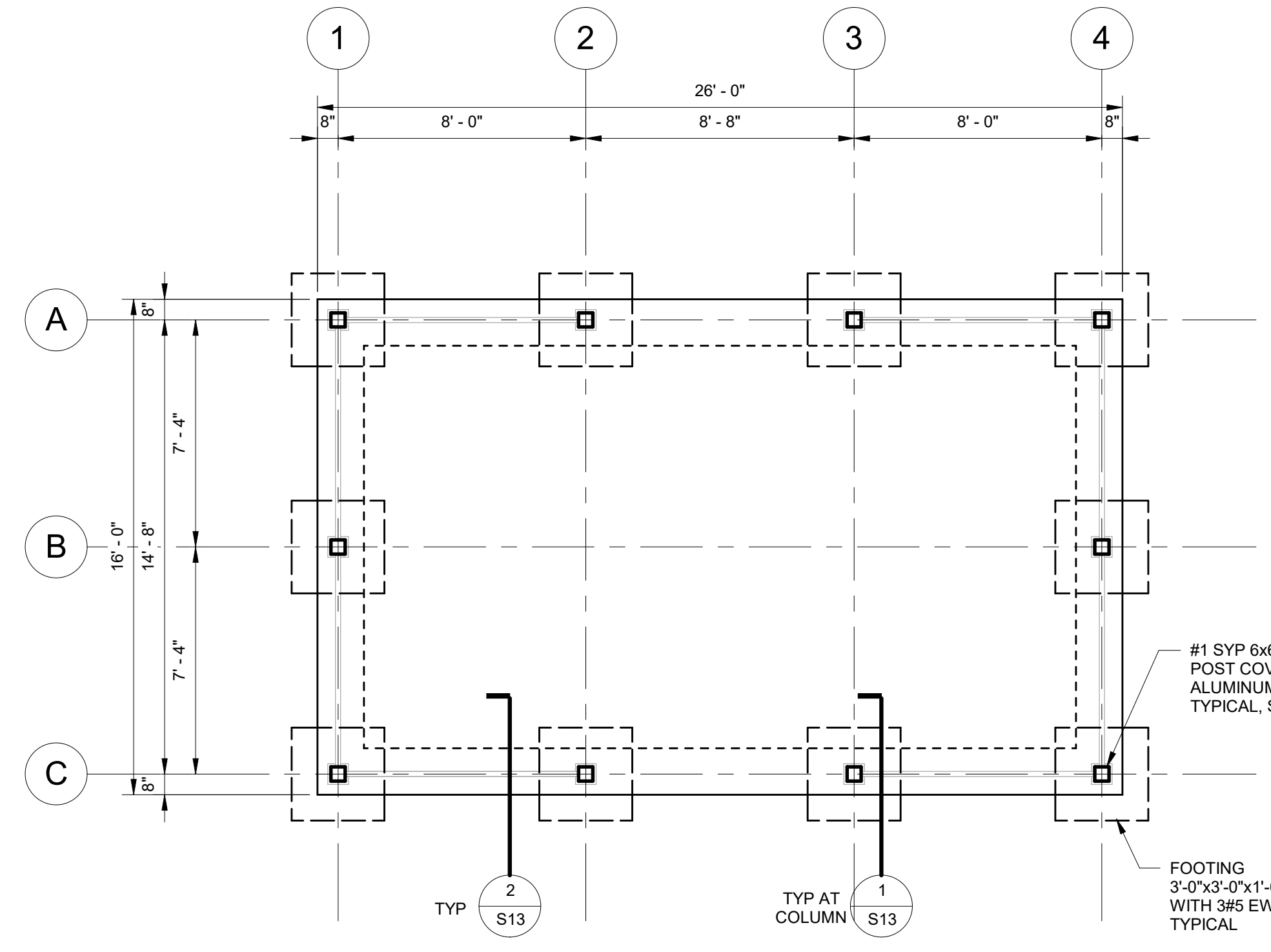


SECTION 5
3/4" = 1'-0"



PROJECT NORTH
GAZEBO - ROOF FRAMING PLAN
1/4" = 1'-0"

- ROOF SYSTEM: PREFABRICATED ROOF TRUSSES AT 24". SEE GENERAL NOTES.
 - ROOF SHEATHING: 1/2" APA STRUCTURAL I OR II RATED SHEATHING, EXPOSURE 1, WITH PLY CLIPS AT ALL UNSUPPORTED EDGES PER THE MANUFACTURER'S RECOMMENDATIONS. PANEL IDENTIFICATION INDEX 32/16. LONG DIMENSION OF PANEL PERPENDICULAR TO SUPPORTS.
 - TRUSS BEARING ELEVATION TO 8'-3" ABOVE FINISH FLOOR, UNLESS NOTED.
 - TRUSSES BEAR ON ALL WALLS AND BEAMS SHOWN.
 - DETAILS SHOWN ARE TYPICAL FOR THE ENTIRE BUILDING.
 - ANCHORS SHOWN ARE TYPICAL.
 - FOR ROOF SLOPES, SEE ARCHITECTURAL DRAWINGS.
- ROOF SHEATHING NAILING, UNLESS NOTED: 8d NAILS @ 6 INCHES AT ALL FOUR PANEL EDGES AND 12 INCHES AT INTERMEDIATE SUPPORTS.



PROJECT NORTH
GAZEBO - FOUNDATION PLAN
1/4" = 1'-0"

- FINISH FLOOR (TOP OF SLAB) REFERENCE ELEVATION 0'-0"
- SLAB CONSTRUCTION: 4" THICK, POST-TENSIONED, CAST IN PLACE SLAB. SEE GENERAL NOTES.
- DETAILS SHOWN ARE TYPICAL FOR THE ENTIRE BUILDING.
- DIMENSIONS SHOWN ARE TO EDGE OF SLAB/FACE OF STUD.

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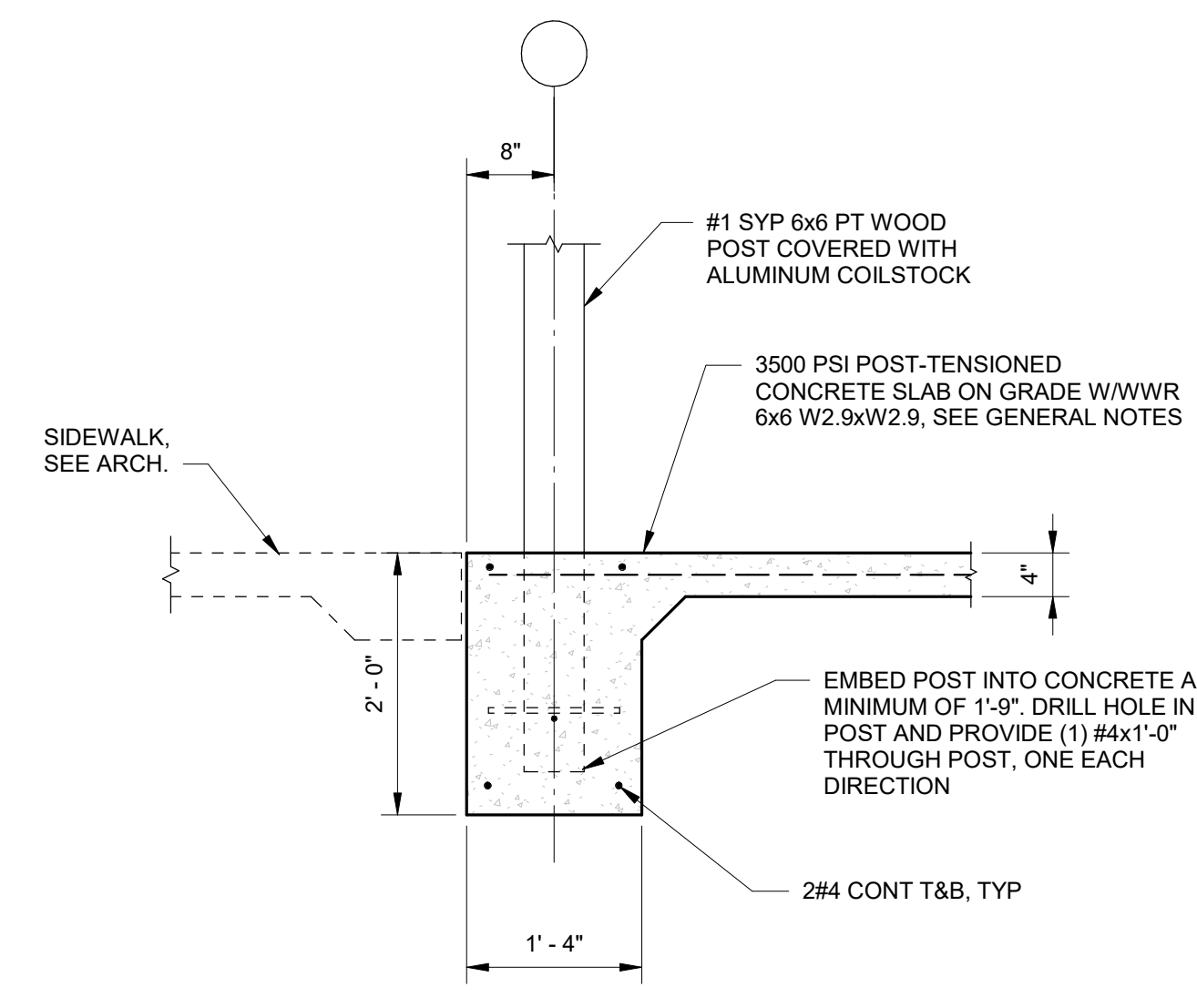
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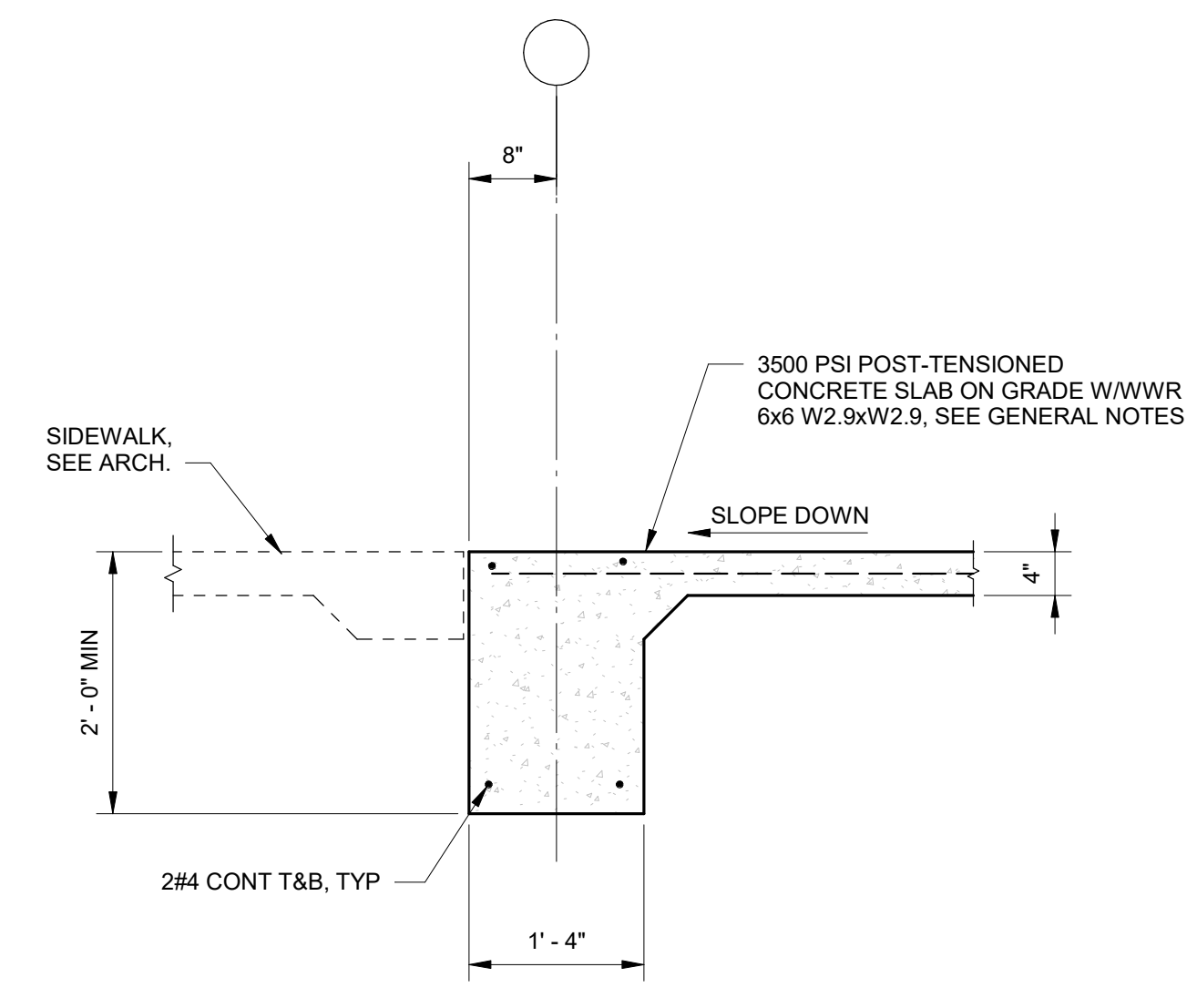
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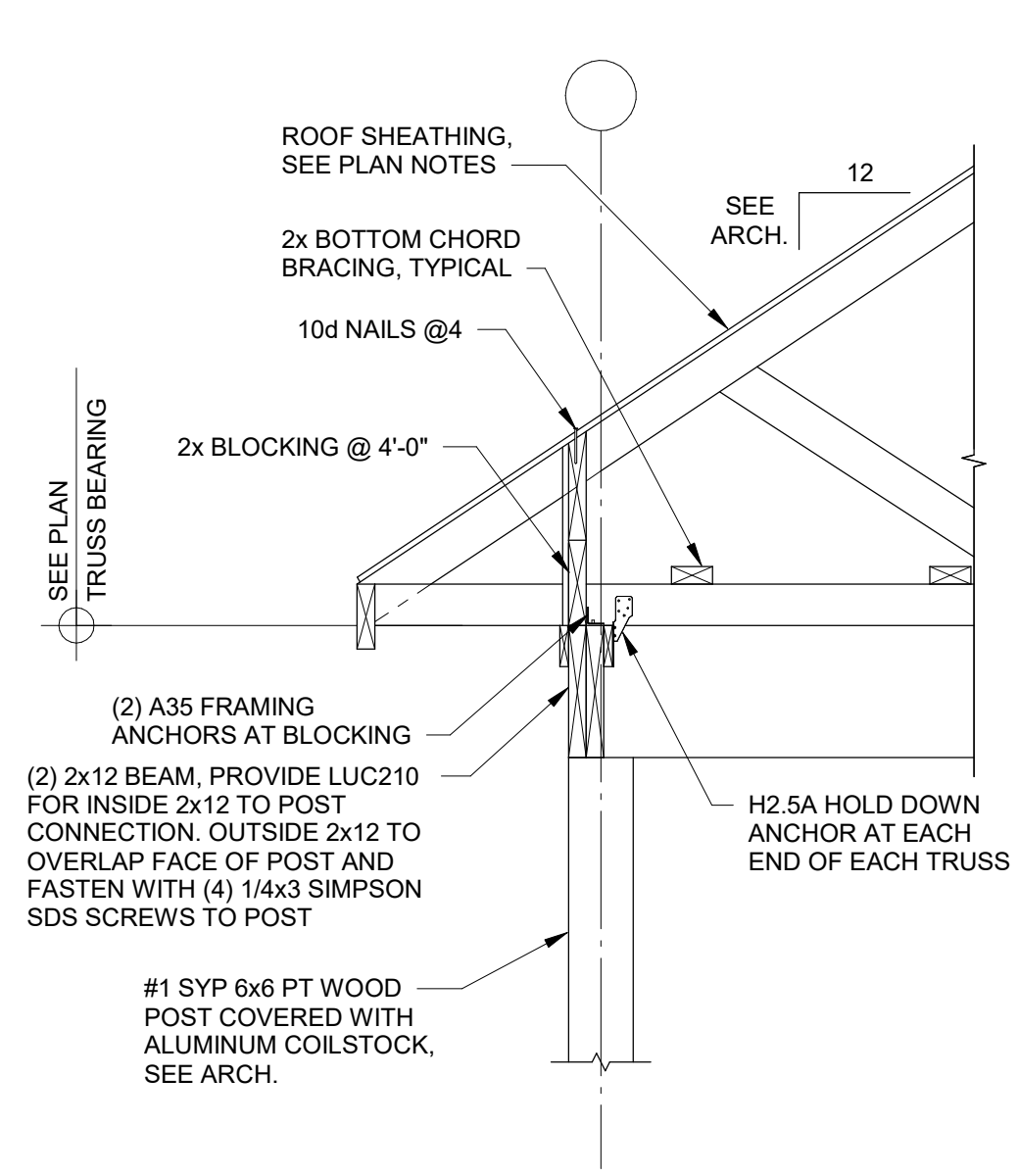
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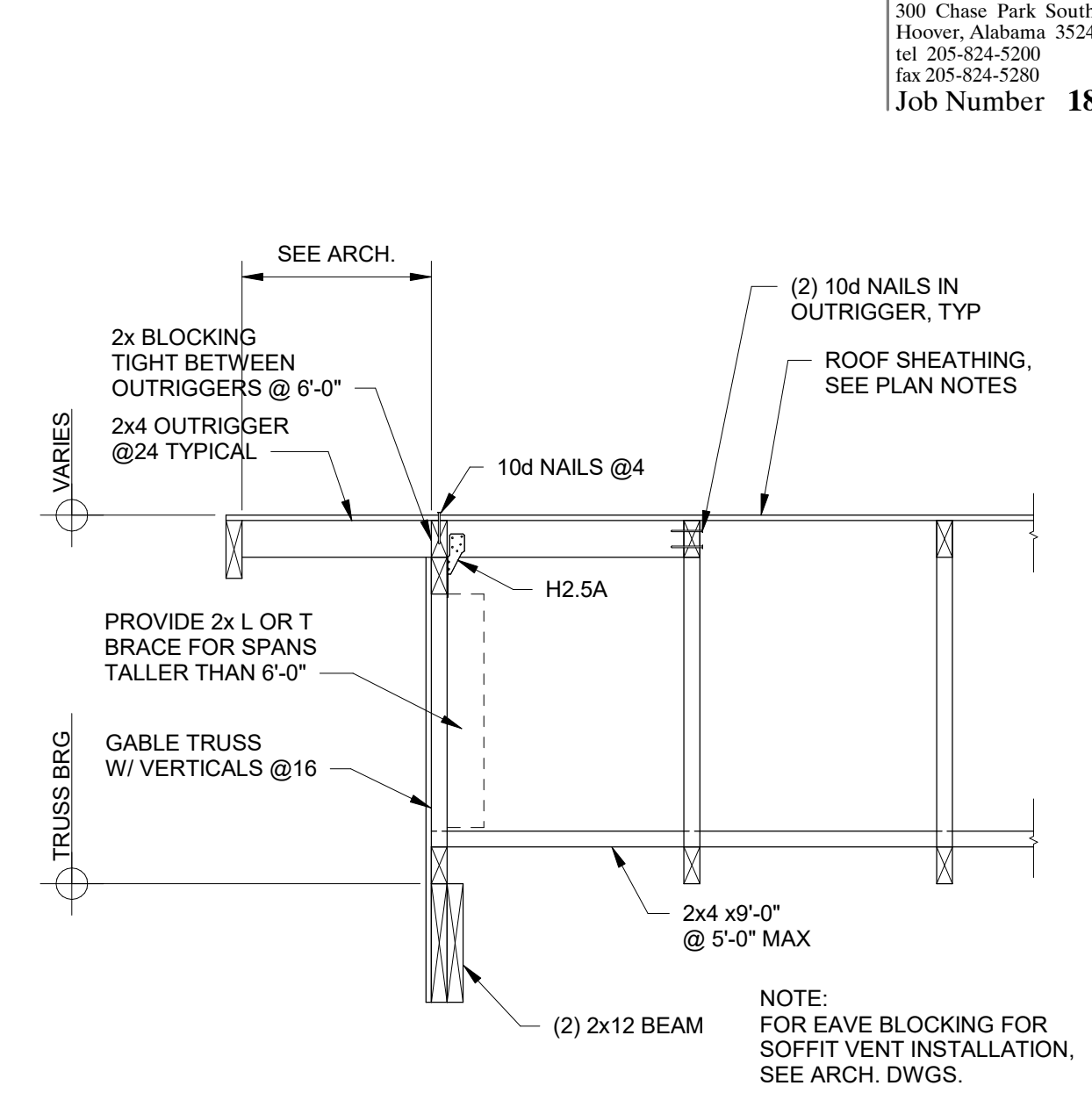
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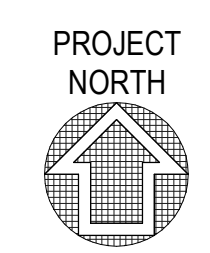
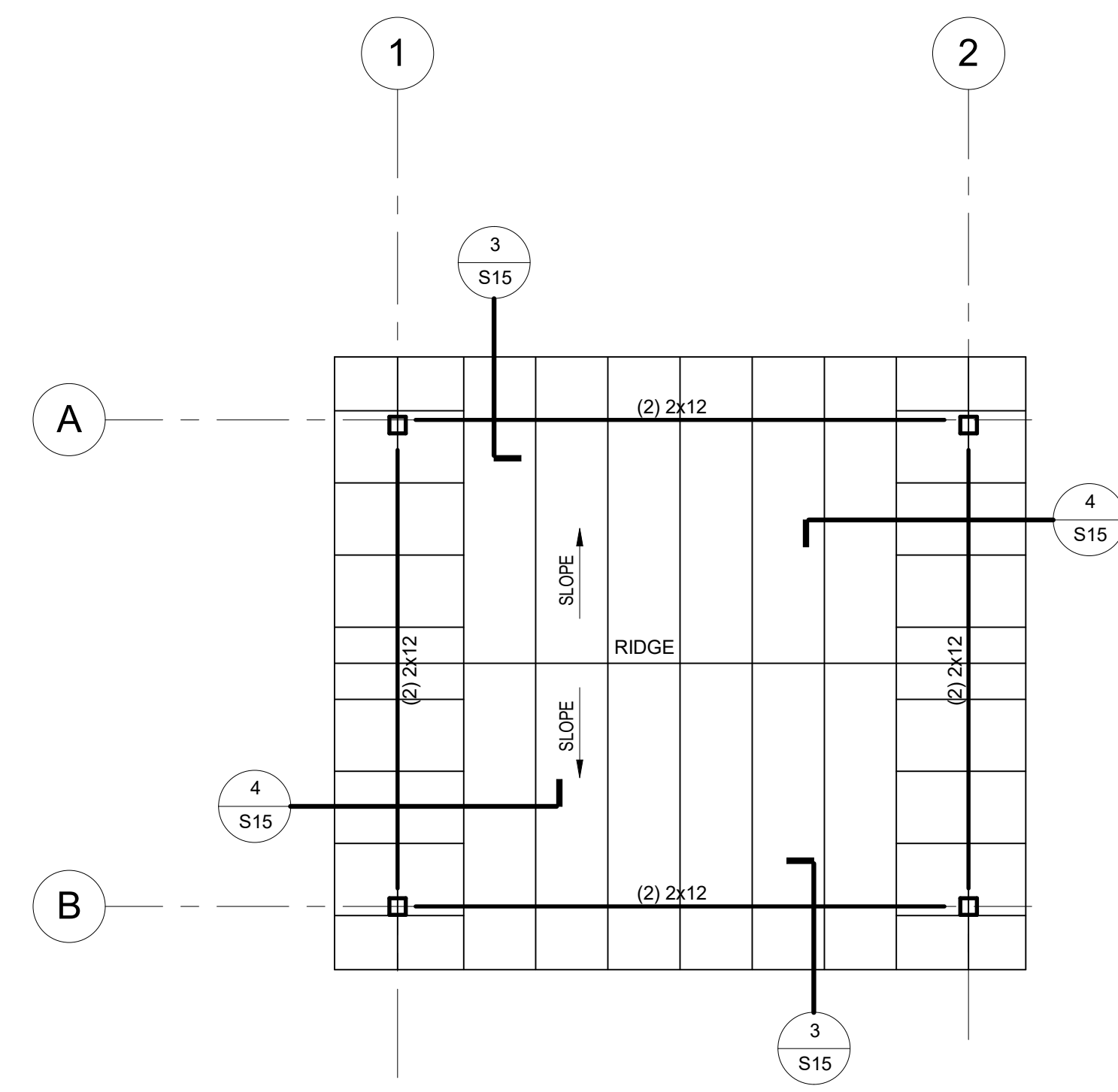
SECTION 2
 3/4" = 1'-0"



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

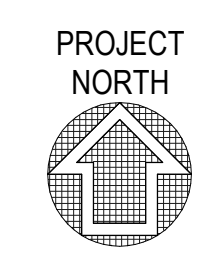
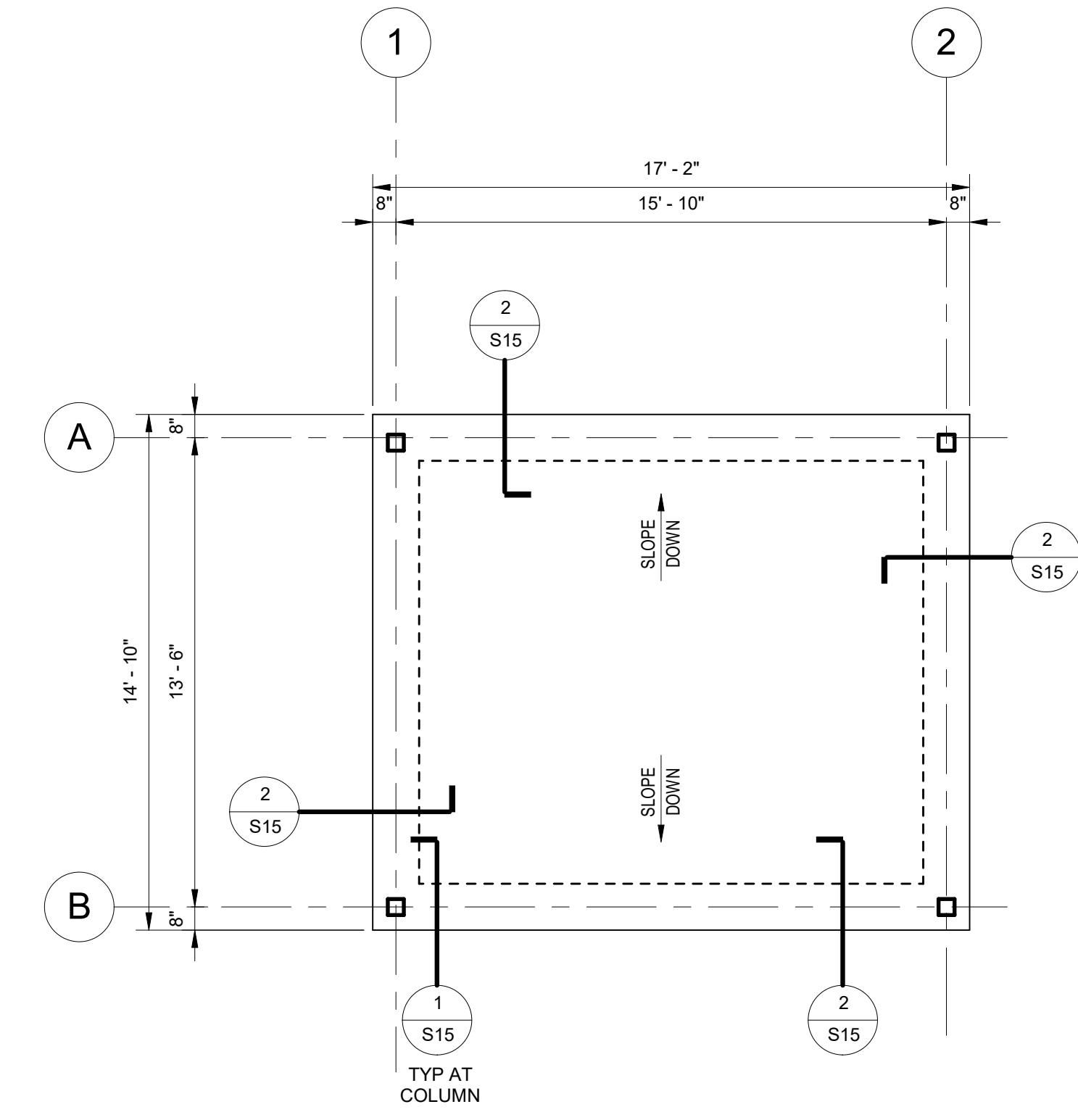


SECTION 4
 3/4" = 1'-0"



BUS STOP - ROOF FRAMING PLAN
 1/4" = 1'-0"

1. ROOF SYSTEM: PREFABRICATED ROOF TRUSSES AT 24". SEE GENERAL NOTES.
2. ROOF SHEATHING: 1/2" APA STRUCTURAL I OR II RATED SHEATHING, EXPOSURE 1, WITH PLY CLIPS AT ALL UNSUPPORTED EDGES PER THE MANUFACTURER'S RECOMMENDATIONS. PANEL IDENTIFICATION INDEX 32/16. LONG DIMENSION OF PANEL PERPENDICULAR TO SUPPORTS.
3. TRUSS BEARING ELEVATION TO 8'-1" ABOVE FINISH FLOOR, UNLESS NOTED.
4. TRUSSES BEAR ON ALL WALLS AND BEAMS SHOWN.
5. DETAILS SHOWN ARE TYPICAL FOR THE ENTIRE BUILDING.
6. ANCHORS SHOWN ARE TYPICAL.
7. FOR ROOF SLOPES, SEE ARCHITECTURAL DRAWINGS.



BUS STOP - FOUNDATION PLAN
 1/4" = 1'-0"

1. FINISH FLOOR (TOP OF SLAB) REFERENCE ELEVATION 0'-0".
2. SLAB CONSTRUCTION: 4" THICK, POST-TENSIONED, CAST IN PLACE SLAB. SEE GENERAL NOTES.
3. DETAILS SHOWN ARE TYPICAL FOR THE ENTIRE BUILDING.
4. DIMENSIONS SHOWN ARE TO EDGE OF SLAB/FACE OF STUD.

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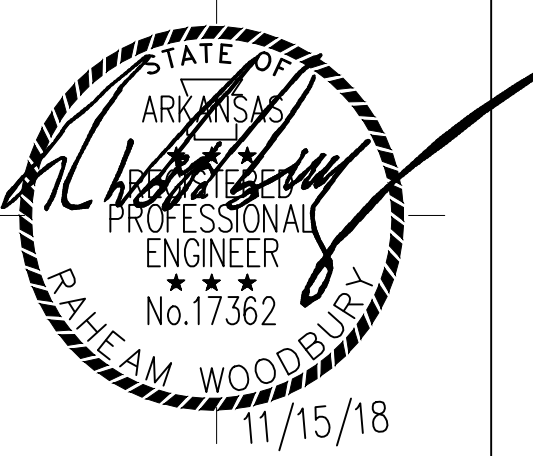
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PLUMBING LEGEND SYMBOLS AND ABBREVIATIONS

---	DOMESTIC COLD WATER		BALL VALVE	ABV	ABOVE
----	EXISTING DOMESTIC COLD WATER TO BE REMOVED		VALVE IN VERTICAL	AFF	ABOVE FINISHED FLOOR
----	EXISTING DOMESTIC COLD WATER TO REMAIN		CAP ON END OF PIPE	INV	INVERT
----	DOMESTIC HOT WATER		CLEANOUT - FLOOR TYPE	BFF	BELOW FINISHED FLOOR
----	EXISTING DOMESTIC HOT WATER TO BE REMOVED		CLEANOUT - WALL TYPE	CW	COLD WATER
----	EXISTING DOMESTIC HOT WATER TO REMAIN		P-TRAP	DN	DOWN
----	DOMESTIC HOT WATER RETURN		PIPE TURNING DOWN	EX	EXISTING
----	EXISTING DOMESTIC HOT WATER RETURN TO BE REMOVED		PIPE TURNING UP	HW	HOT WATER
----	EXISTING DOMESTIC HOT WATER RETURN TO REMAIN		TEE DOWN	WS	WASTE STACK
----	SANITARY VENT		TEE UP	VS	VENT STACK
----	EXISTING SANITARY VENT TO BE REMOVED		TIE NEW INTO EXISTING	AC	ABOVE CEILING
----	EXISTING SANITARY VENT TO REMAIN		PLUMBING FIXTURE NUMBER	WHA	WATER HAMMER ARRESTOR
----	STORM DRAINAGE		RISER NUMBER	BFG	BELOW FINISHED GRADE
----	EXISTING STORM DRAINAGE TO BE REMOVED		WATER HAMMER ARRESTOR	TMV	THERMOSTATIC MIXING VALVE
----	EXISTING STORM DRAINAGE TO REMAIN		PLUG TYPE CLEANOUT	TP	TRAP PRIMER
----	SANITARY WASTE		BALANCING VALVE		
----	EXISTING SANITARY WASTE TO BE REMOVED		CHECK VALVE		
----	EXISTING SANITARY WASTE TO REMAIN		GATE VALVE		
----	SHEET MATCH LINE		REDUCED PRESSURE ZONE BFP		
----	CONSTRUCTION DUST PARTITION		THERMOSTATIC MIXING VALVE		
----	GAS LINE		FLOOR SINK		
----	EXISTING GAS LINE		FLOOR DRAIN		

PLUMBING FIXTURE CONNECTION SCHEDULE

EQUIPMENT NO.	DESCRIPTION	HOT WATER	COLD WATER	WASTE	VENT	REMARKS
WC-1	WATER CLOSET	---	1/2"	4"	3"	FLOOR MOUNTED, TANK TYPE, 1.28 GPF MANSFIELD ALTO ROUND FRONT BOWL W/ CENTOCO 700 ROUND SEAT WITH METAL HINGES
WC-2	WATER CLOSET, ADA COMPLIANT	---	1/2"	4"	3"	FLOOR MOUNTED, TANK TYPE, 1.28 GPF MANSFIELD ALTO SMARTHEIGHT ROUND FRONT BOWL W/ CENTOCO 700 ROUND SEAT WITH METAL HINGES
LV-1	LAVATORY	1/2"	1/2"	1-1/2"	1-1/2"	COUNTER TOP MOUNTED, BRIGGS ALTIMA ROUND, 19" W/ 4" CENTERS, AND OVERFLOW. PEERLESS P136LF SERIES FAUCET, 1.5 GPM FLOW, WITHOUT POP-UP DRAIN, AND ADA LEVER HANDLES. MCGUIRE 170 STOPS AND 8902 P-TRAP. FLEXIBLE S.S. BRAID SUPPLY LINES.
LV-2	LAVATORY ADA COMPLIANT	1/2"	1/2"	1-1/2"	1-1/2"	COUNTER TOP MOUNTED, BRIGGS ALTIMA ROUND, 19" W/ 4" CENTERS, AND OVERFLOW. PEERLESS P136LF SERIES FAUCET, 1.5 GPM FLOW, WITHOUT POP-UP DRAIN, AND ADA LEVER HANDLES. MCGUIRE 170 STOPS AND 8902 P-TRAP. FLEXIBLE S.S. BRAID SUPPLY LINES. ADA COMPLIANT TRAP AND SUPPLY WRAP EQUAL TO TRUEBRO LAV GUARD.
LV-3	LAVATORY	1/2"	1/2"	1-1/2"	1-1/2"	WALL MOUNTED, BRIGGS MILTON 6620 W/ 4" CENTERS, OVERFLOW AND CONCEAL ARM CARRIER, PEERLESS P136LF SERIES FAUCET, 1.5 GPM FLOW, WITHOUT POP-UP DRAIN, AND ADA LEVER HANDLES. MCGUIRE 170 STOPS AND 8902 P-TRAP. ZURN Z-1231 CARRIER, FLEXIBLE S.S. BRAID SUPPLY LINES.
TS-1	BATHTUB WITH SHOWER AND WALL SURROUND	1/2"	1/2"	1-1/2"	1-1/2"	STERLING 71370110 TUB UNIT, 60"x30"x72", SMOOTH FINISH, GRAB BAR, AND ROD. PEERLESS PTT188750 TUB/SHOWER CONTROL VALVE WITH DELTA PRESSURE BALANCE MIX VALVE, BLADE HANDLE, SPOUT, AND SHOWER HEAD. 1.5 GPM SHOWER HEAD MAXIMUM.
TS-2	BATHTUB WITH SHOWER AND WALL SURROUND ADA COMPLIANT	1/2"	1/2"	1-1/2"	1-1/2"	STERLING 71370110 TUB UNIT, 60"x30"x72", SMOOTH FINISH, GRAB BAR, SEAT AND ROD. PEERLESS PTT188750 TUB/SHOWER CONTROL VALVE WITH DELTA PRESSURE BALANCE MIX VALVE, BLADE HANDLE, SPOUT, HAND HELD SHOWER HEAD W/ 24" SLIDE BAR. 1.5 GPM SHOWER HEAD MAXIMUM.
SH-1	ROLL-IN SHOWER AND WALL SURROUND ADA COMPLIANT	1/2"	1/2"	1-1/2"	1-1/2"	STERLING 62070125 ADA SHOWER UNIT, 63-1/4"x39-3/8"x72", SMOOTH FINISH, GRAB BARS, SEAT AND ROD. PEERLESS PTT188750 TUB/SHOWER CONTROL VALVE W/ DELTA PRESSURE BALANCE MIX VALVE, BLADE HANDLE, SPOUT, HAND HELD SHOWER HEAD W/ 24" SLIDE BAR. 1.5 GPM SHOWER HEAD MAXIMUM.
SK-1	TWO COMPARTMENT SINK	1/2"	1/2"	1-1/2"	1-1/2"	DAYTON 023317 TYPE 304, 22 GAUGE STAINLESS STEEL SINK, 6" DEEP COMPARTMENTS W/ 4 PUNCH FOR DISHWASHER AIR GAP. PEERLESS P115LF W/ LEVER HANDLE & SPRAY. LK-99 TAILPIECE W/ CONTINUOUS WASTE & P-TRAP. JONES STEPHENS AIR GAP UNIT. FLEXIBLE STAINLESS STEEL BRAID SUPPLY LINES.
SK-2	TWO COMPARTMENT SINK ADA COMPLIANT	1/2"	1/2"	1-1/2"	1-1/2"	DAYTON GE23321 TYPE 304, 22 GAUGE STAINLESS STEEL SINK, REAR CENTER DRAIN, 5" DEEP COMPARTMENTS W/ 4 PUNCH FOR DISHWASHER AIR GAP. PEERLESS P115LF W/ LEVER HANDLE & SPRAY. LK-99 TAILPIECE W/ CONTINUOUS WASTE & P-TRAP. JONES STEPHENS AIR GAP UNIT. FLEXIBLE STAINLESS STEEL BRAID SUPPLY LINES.
IMVB-1	ICE MAKER VALVE BOX	---	1/2"	---	---	OATEY 12K W/ QUARTER TURN VALVE AND WATER HAMMER ARRESTER
WMVB-1	WASHING MACHINE VALVE BOX	1/2"	1/2"	2"	2"	OATEY 38943, POLYSTYRENE BOX, WITH QUARTER TURN VALVES AND WATER HAMMER ARRESTERS.
DWVB-1	DISHWASHER VALVE BOX	1/2"	---	---	---	OATEY 38202, POLYSTYRENE BOX, WITH SINGLE LEVER VALVE AND WATER HAMMER ARRESTER
ACDB-1	CONDENSATE DRAIN BOX	---	---	2"	2"	GUY GRAY OR APPROVED EQUAL. PROVIDE TRAP GUARD.
WH-1	WALL HYDRANT	---	1/2"	---	---	ZURN Z1320-C, NON-FREEZING WITH LOCKING BOX AND VACUUM BREAKER.
EWC-1	ELECTRIC WATER COOLER- ADA COMPLIANT	---	1/2"	2"	2"	BI-LEVEL ELKAY EZTLR8LC W/ PUSH BAR AT FRONT, 8.0 GPH, SAFETY BUBBLER GUARD AND WALL CARRIER. 120/1/60; 370 WATTS; FLA - 4.0. PROVIDE P-TRAP W/ CLEANOUT, ANGLE STOP, AND SUPPLY LINE.
LS-1	LAUNDRY TUB/SINK	---	1/2"	2"	2"	FIAT TAT1 LAUNDRY TUB W/ FAUCET (4" CENTERS, BLADE HANDLES, SWING SPOUT, AERATOR AND HOSE ADAPTOR) AND DRAIN/SUPPLY KIT.

DRAWING GENERAL NOTES:

- CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD PRIOR TO BEGINNING WORK.
- SPACE ABOVE CEILING IS LIMITED. CAREFUL COORDINATION WITH LIGHTING, ELECTRICAL, MECHANICAL, FIRE PROTECTION, STRUCTURAL AND ARCHITECTURAL WORK IS CRITICAL FOR COMPLETE PIPING INSTALLATION. CONTRACTOR SHALL PROVIDE NECESSARY OFFSETS IN NEW AND EXISTING PIPING AND ELECTRICAL CONDUIT AS REQUIRED TO ACCOMMODATE NEW WORK. CONTRACTOR SHALL ALLOW FOR ANY CONFLICTS ENCOUNTERED.
- PIPING LAYOUTS ARE DIAGRAMMATIC AND DO NOT SHOW ALL ELEMENTS OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHANGES ON DIRECTION, ELEVATION AND MINOR OFFSETS NECESSARY FOR COMPLETE INSTALLATION OF ELEMENTS SHOWN.
- ALL WASTE PIPING SHOWN IS BELOW THE FINISHED FLOOR UNLESS OTHERWISE NOTED. ALL VENT PIPING SHOWN IS ABOVE THE CEILING UNLESS OTHERWISE NOTED.
- COORDINATE ACCESS DOOR LOCATIONS WITH GENERAL CONTRACTOR AND ARCHITECT.

PLUMBING GENERAL NOTES:

- ALL HORIZONTAL PRESSURE PIPING SHALL BE RUN ABOVE CEILING ON THE PLAN ON WHICH SHOWN UNLESS OTHERWISE NOTED.
- ALL HORIZONTAL GRAVITY PIPING SHALL BE RUN BELOW FLOOR ON THE PLAN ON WHICH SHOWN UNLESS OTHERWISE INDICATED. ALL HORIZONTAL VENT PIPING SHALL BE RUN ABOVE FLOOR ON THE PLAN ON WHICH SHOWN UNLESS OTHERWISE INDICATED. VENT PIPING IS SHOWN OFFSET FOR CLARITY.
- THE LOCATION OF FLOOR DRAINS SHALL BE COORDINATED WITH THE LOCATION OF THE EQUIPMENT BEING SERVED PRIOR TO INSTALLATION.
- COORDINATE ROUTING OF PIPING TO AVOID CONFLICTS WITH STRUCTURAL, MECHANICAL, AND ELECTRICAL WITHIN THE BUILDING PRIOR TO INSTALLATION. ROUTE PIPING IN JOIST SPACE AS MUCH AS POSSIBLE.
- COORDINATE WITH ARCHITECTURAL SITE PLAN FOR THE LOCATION AND ORIENTATION OF THE BUILDINGS.
- ALL WATER PIPING (HOT AND COLD) IN EXTERIOR WALLS SHALL BE INSULATED PER THE SPECIFICATIONS AND INSTALLED ON THE WARM SIDE OF THE WALL TO PREVENT FREEZING. ALL HOT WATER PIPING SHALL BE INSULATED.
- SANITARY WASTE AND VENT PIPING AND FITTING SHALL BE PVC SCHEDULE 40. ALL JOINTS SHALL BE PRIMED PRIOR TO SOLVENT CEMENT BEING APPLIED. SEE SPECIFICATION SECTION 15411 FOR ADDITIONAL REQUIREMENTS.
- WATER DISTRIBUTION PIPING SHALL BE EITHER COPPER TUBING AND FITTING WITH SOLDER JOINT OR PEX PIPING WITH METAL TYPE WITH CRIMP RING. SEE SPECIFICATION SECTION 221116 FOR ADDITIONAL REQUIREMENTS.

ELECTRIC WATER HEATER SCHEDULE

EQUIPMENT NO.	MANUFACTURER AND MODEL NO.	SERVICE	ENERGY FACTOR	ENTERING WATER TEMP (°F)	LEAVING WATER TEMP (°F)	RECOVERY RATE (GPH)	STORAGE CAPACITY (GAL)	TANK DIMENSIONS		ELECTRICAL		REMARKS	
								HEIGHT (INCHES)	DIAMETER (INCHES)	HEATING ELEMENTS	VOLTS/PH/HZ		
EWH-1	AO SMITH MODEL ENT-40	DOMESTIC HOT WATER	0.95	55°	110°	30	38	32	24	4.5	1	240/1/60	TALL UNIT W/ TOP CONNECTIONS
EWH-2	AO SMITH MODEL DRE-52-24	DOMESTIC HOT WATER	0.95	55°	120°	164	50	56	22	18.0	2	240/1/60	TOTAL HEATER KW: 36

PLUMBING SPECIALITY SCHEDULE

MARK NO.	FIXTURE TYPE	MANUFACTURER'S MODEL NO.	MOUNT	MOUNT HEIGHT	WASTE SIZE	VENT SIZE	C.W. SIZE	H.W. SIZE	MIXED WATER SIZE	NOTES
FD-1	FLOOR DRAIN	JAY R. SMITH MODEL 2005 OR APPROVED EQUAL	FLOOR	-	4"	2"	1/2"	-	-	6" DIA. NICKEL BRONZE TYPE "B" ADJUSTABLE TOP 1/2" TRAP PRIMER CONNECTION
HD-1	HUB DRAIN	3"x4" SCHEDULE 40 REDUCER AT 3" PVC PIPING	FLOOR	-	3"	2"	-	-	-	SCHEDULE 40 PVC PIPING AND FITTINGS
C.O.	FLOOR CLEANOUT	JAY R. SMITH MODEL 4100 SERIES OR APPROVED EQUAL	FLOOR	-	4"	-	-	-	-	COORDINATE TYPE WITH FLOOR FINISH MATERIAL
W.C.O.	WALL CLEANOUT	JAY R. SMITH MODEL 4400 OR APPROVED EQUAL	WALL	-	4"	2"	-	-	-	7" DIA. STAINLESS STEEL COVER
BFP-1	BACKFLOW PREVENTER	ZURN MODEL 350XL, DUAL CHECK VALVE TYPE	-	-	-	-	2"	-	-	55 GPM FLOW W/ 6 PSI PRESSURE DROP PROVIDE W/ LEAD-FREE STRAINER
BFP-2	BACKFLOW PREVENTER	ZURN MODEL 350XL, DUAL CHECK VALVE TYPE	-	-	-	-	1-1/4"	-	-	29 GPM FLOW W/ 5 PSI PRESSURE DROP PROVIDE W/ LEAD-FREE STRAINER
BFP-3	BACKFLOW PREVENTER	ZURN MODEL 350DA, DUAL CHECK VALVE TYPE	-	-	-	-	2-1/2"	-	-	105 GPM FLOW W/ 9 PSI PRESSURE DROP PROVIDE W/ LEAD-FREE STRAINER
PRV-1	PRESSURE REDUCING VALVE	ZURN MODEL 500XL	-	-	-	-	2"	-	-	55 GPM FLOW W/ 7 PSI PRESSURE DROP SET LEAVING PRESSURE TO 60 PSI
PRV-2	PRESSURE REDUCING VALVE	ZURN MODEL 500XL	-	-	-	-	1-1/4"	-	-	29 GPM FLOW W/ 6 PSI PRESSURE DROP SET LEAVING PRESSURE TO 50 PSI
PRV-3	PRESSURE REDUCING VALVE	ZURN MODEL 500XL	-	-	-	-	2-1/2"	-	-	105 GPM FLOW W/ 7 PSI PRESSURE DROP SET LEAVING PRESSURE TO 60 PSI
LI-1	LINT INTERCEPTORS	ZURN Z1185 SIZE 7 OR APPROVED EQUAL	FLOOR	-	3"	2"	-	-	-	PROVIDE W/ VENT CONNECTION & ACCESS TOP EXTENSION AS REQUIRED
TP-1	TRAP PRIMER	PPP MODEL OR APPROVED EQUAL	SEE DETAIL	-	-	-	1/2"	-	-	TRAP PRIMER TO BE POLISHED BRONZE.

EQUALS BY J.R. SMITH OR ZURN WILL BE ACCEPTED

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PROJECT

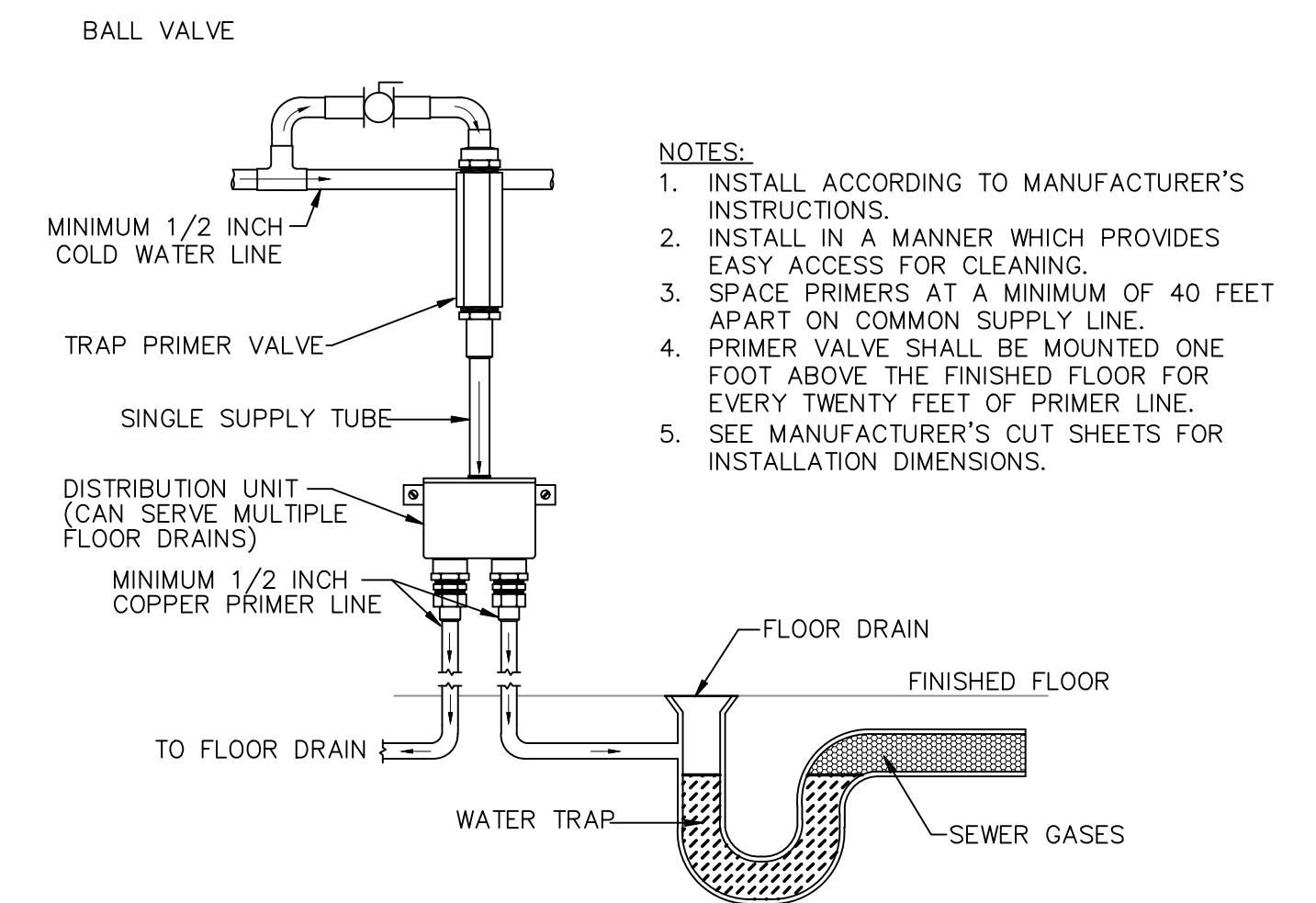
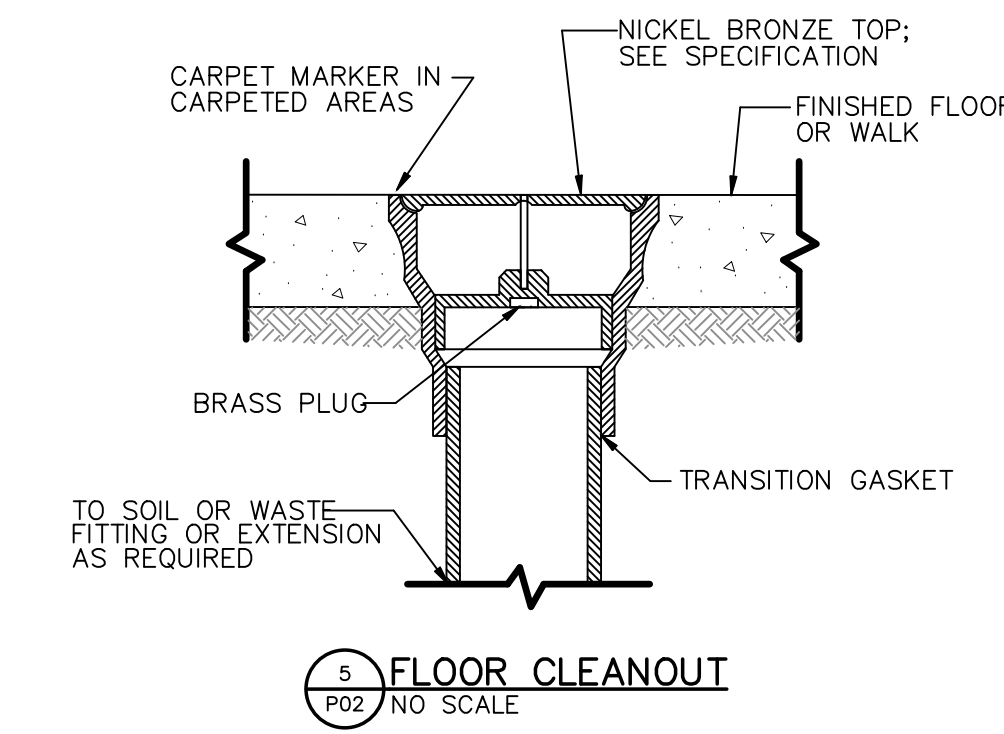
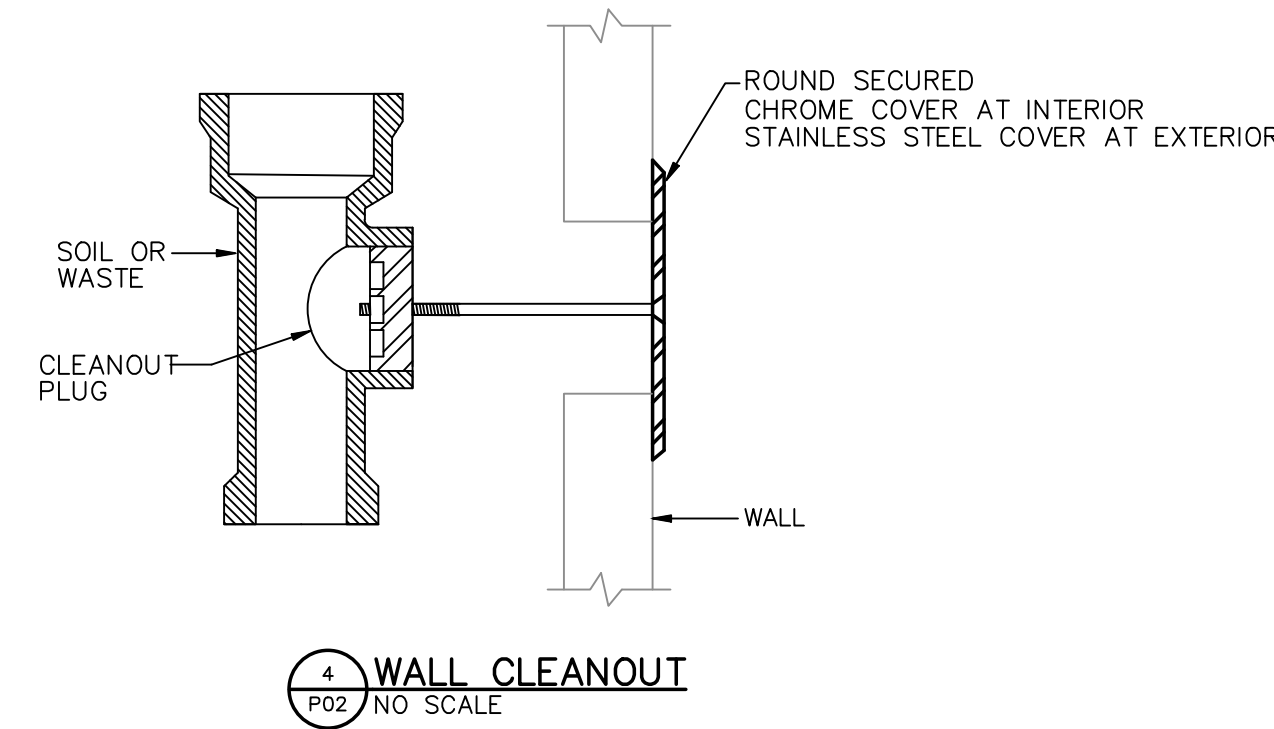
The Park At Barton

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West Memphis, AR 72301

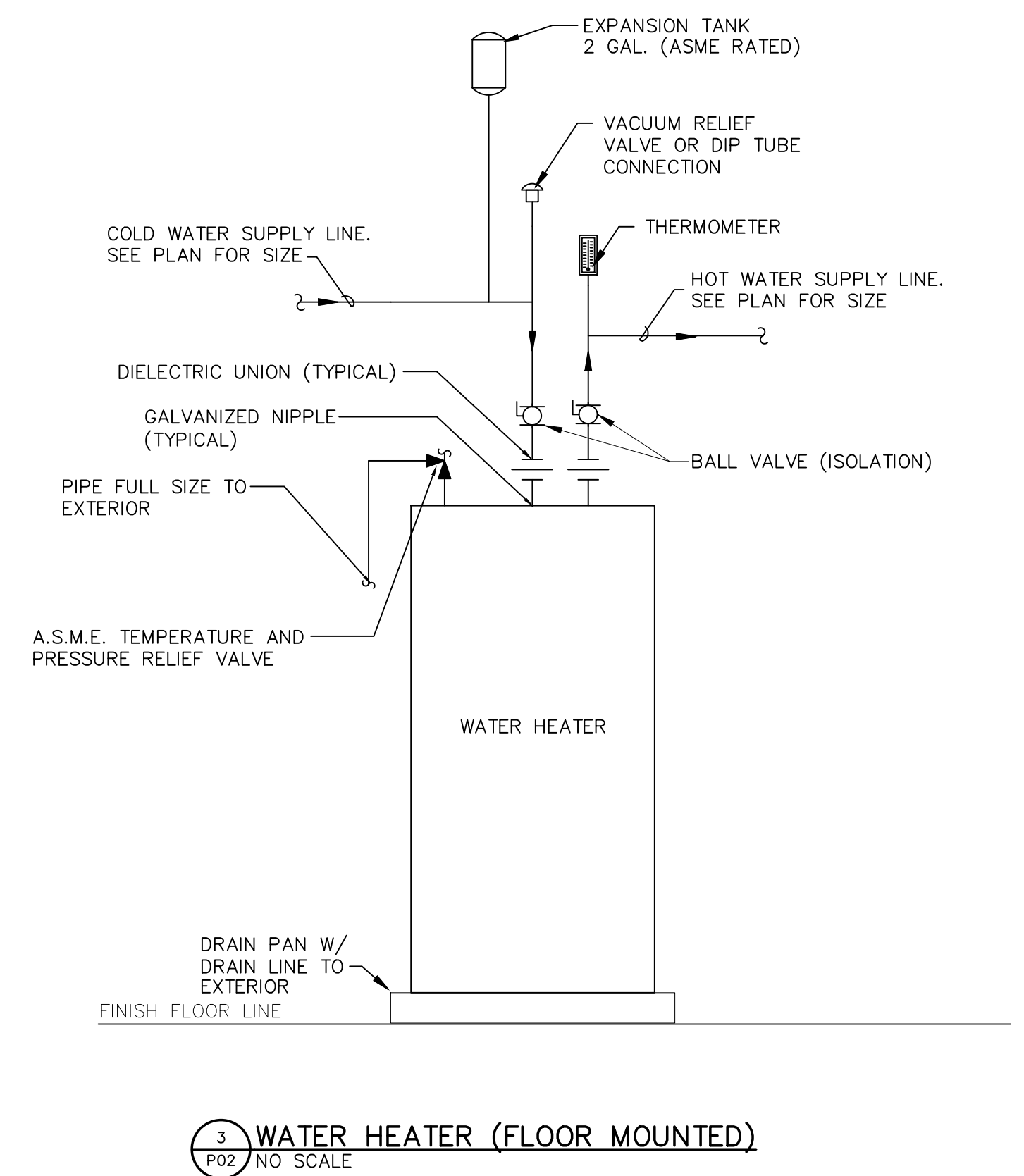
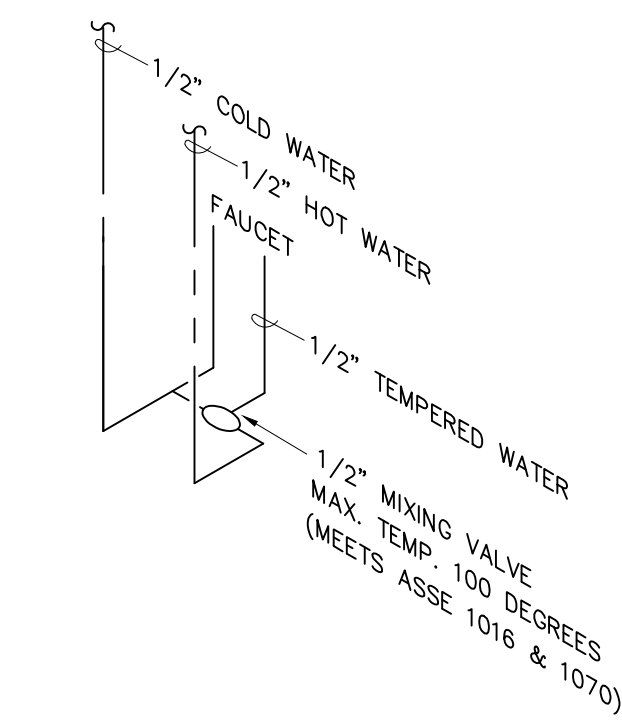
SHEET NUMBER

P01

CAD FILE NUMBER



- NOTES:**
1. INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
 2. INSTALL IN A MANNER WHICH PROVIDES EASY ACCESS FOR CLEANING.
 3. SPACE PRIMERS AT A MINIMUM OF 40 FEET APART ON COMMON SUPPLY LINE.
 4. PRIMER VALVE SHALL BE MOUNTED ONE FOOT ABOVE THE FINISHED FLOOR FOR EVERY TWENTY FEET OF PRIMER LINE.
 5. SEE MANUFACTURER'S CUT SHEETS FOR INSTALLATION DIMENSIONS.

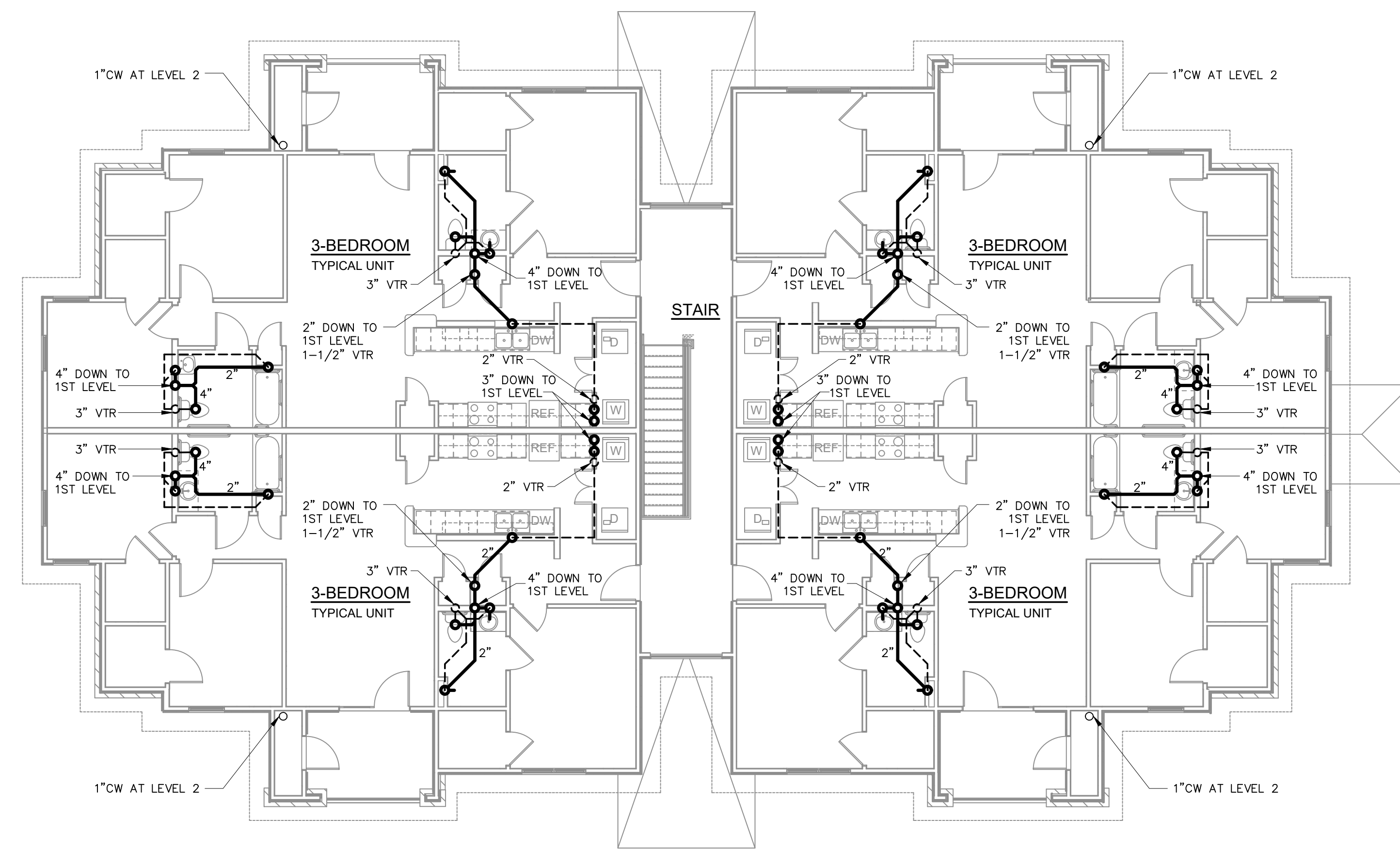


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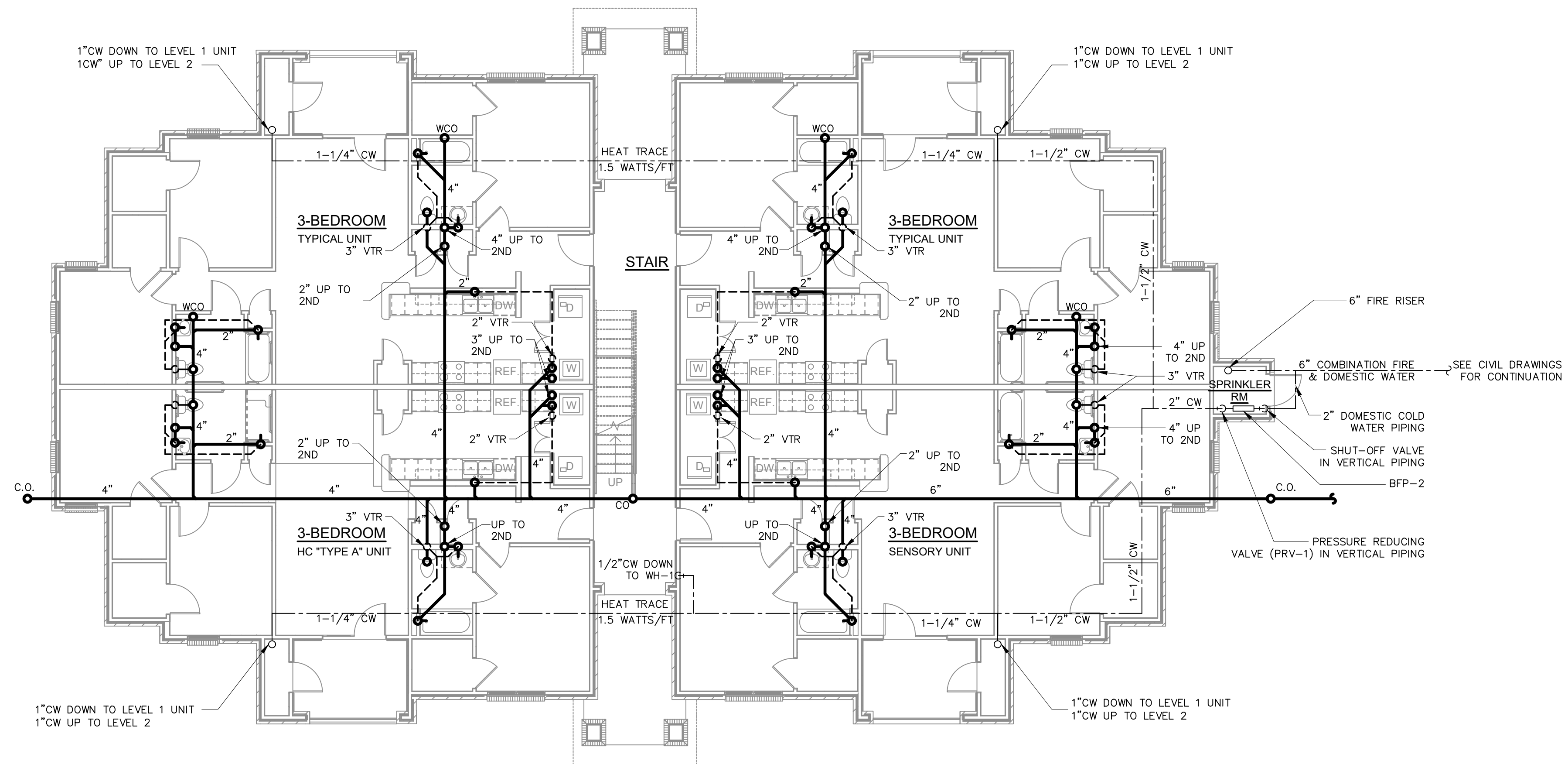
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 PROJECT
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SHEET NUMBER
P02
 CAD FILE NUMBER



2 BUILDING A - LEVEL 2
 P03 1/8" = 1'-0"



1 BUILDING A - LEVEL 1
 P03 1/8" = 1'-0"

NOTE: SEE 1/4" SCALE UNIT PLANS

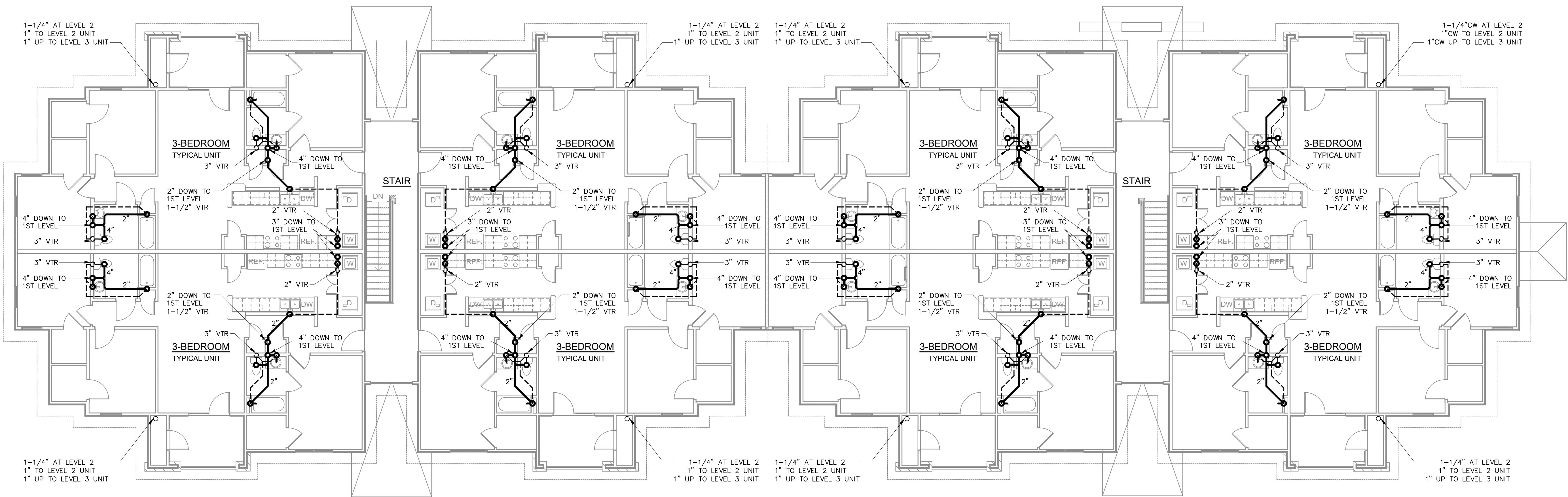
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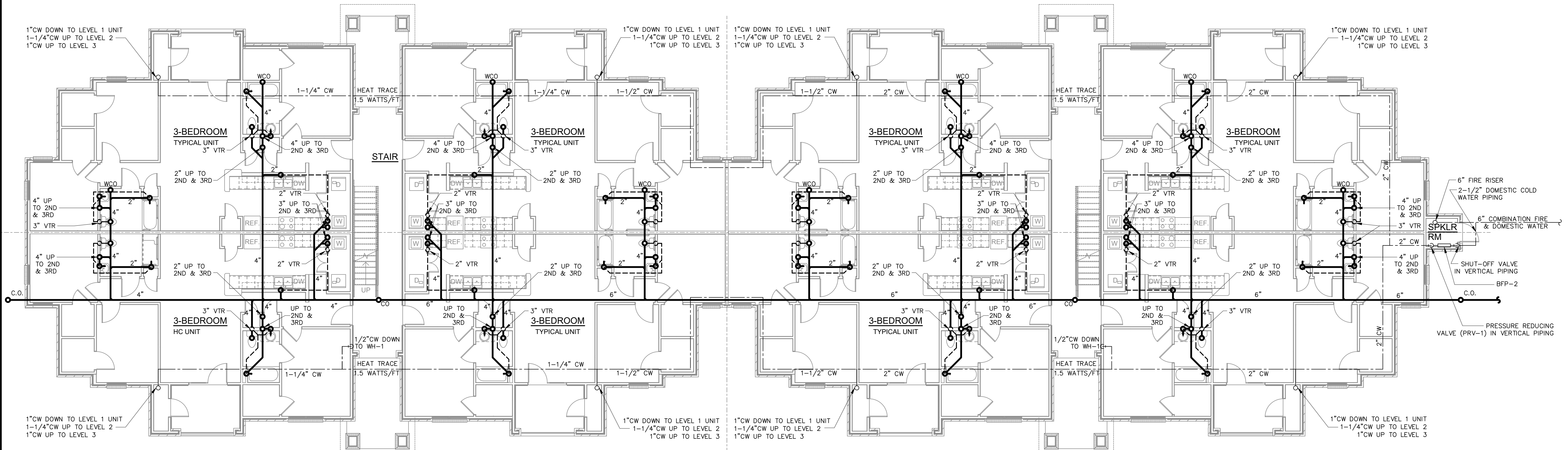
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SHEET NUMBER
P03

CAD FILE NUMBER



2 BUILDING B - LEVEL 2 & 3
 1/8" = 1'-0"



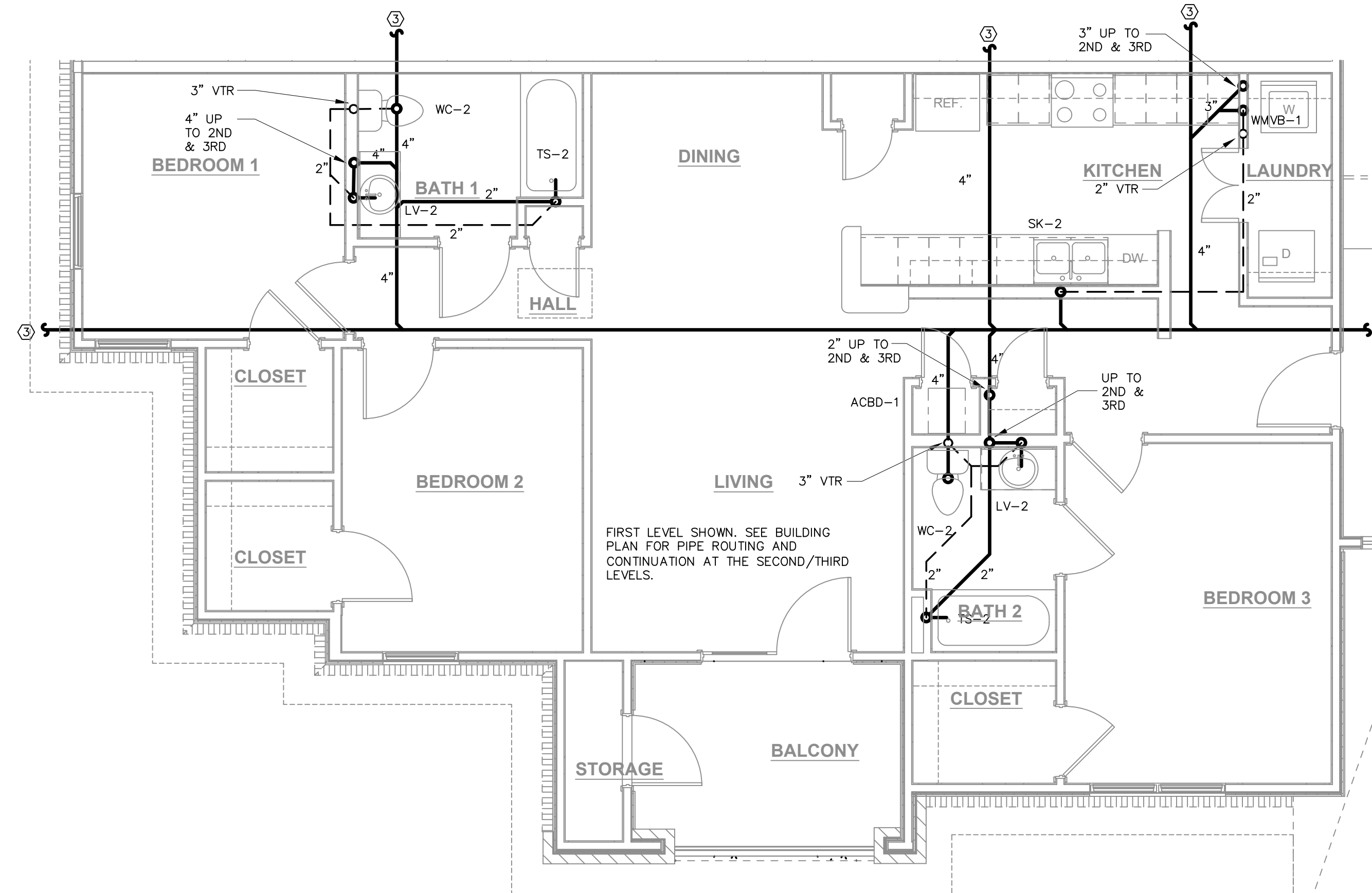
1 BUILDING B - LEVEL 1
 1/8" = 1'-0"

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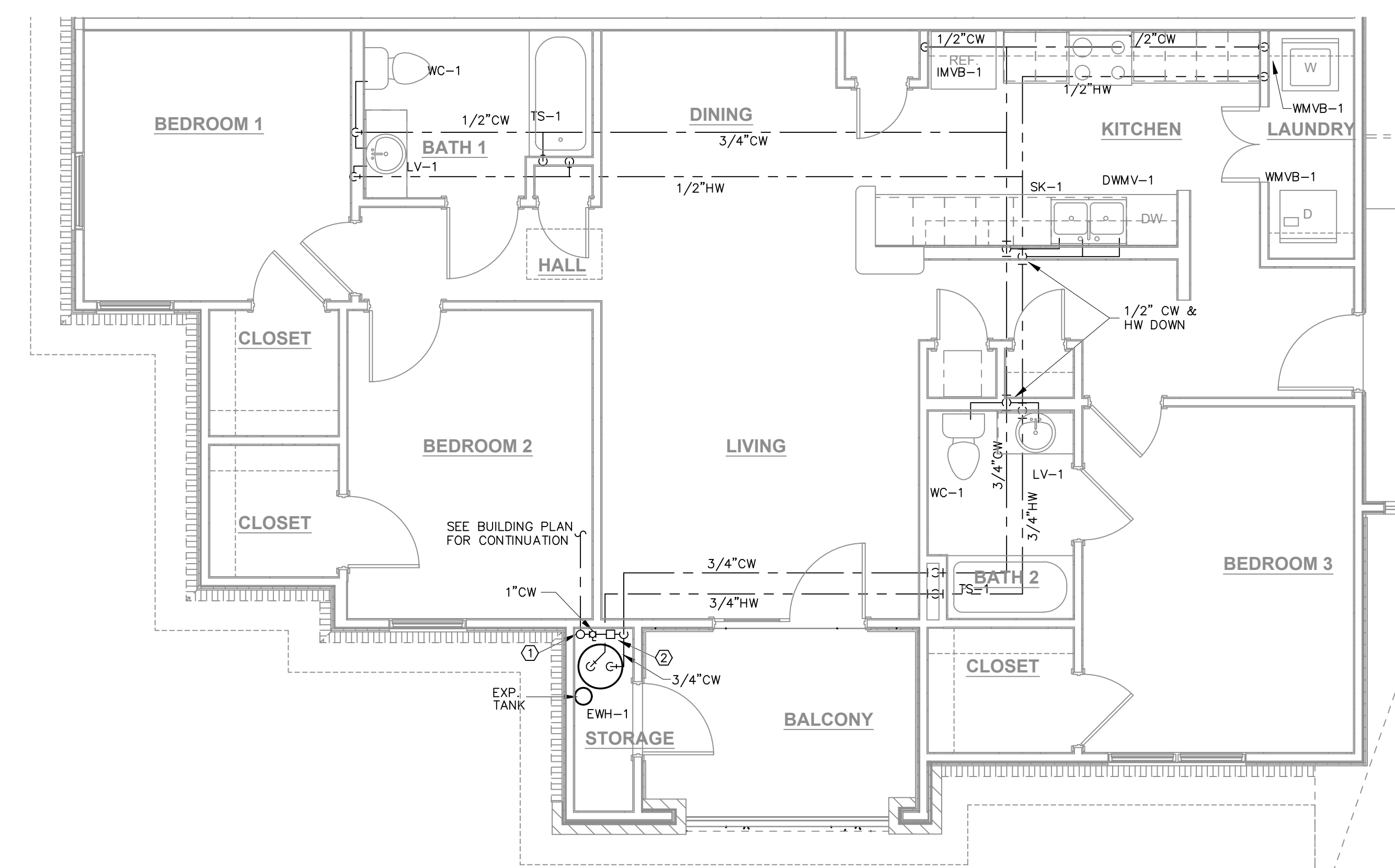
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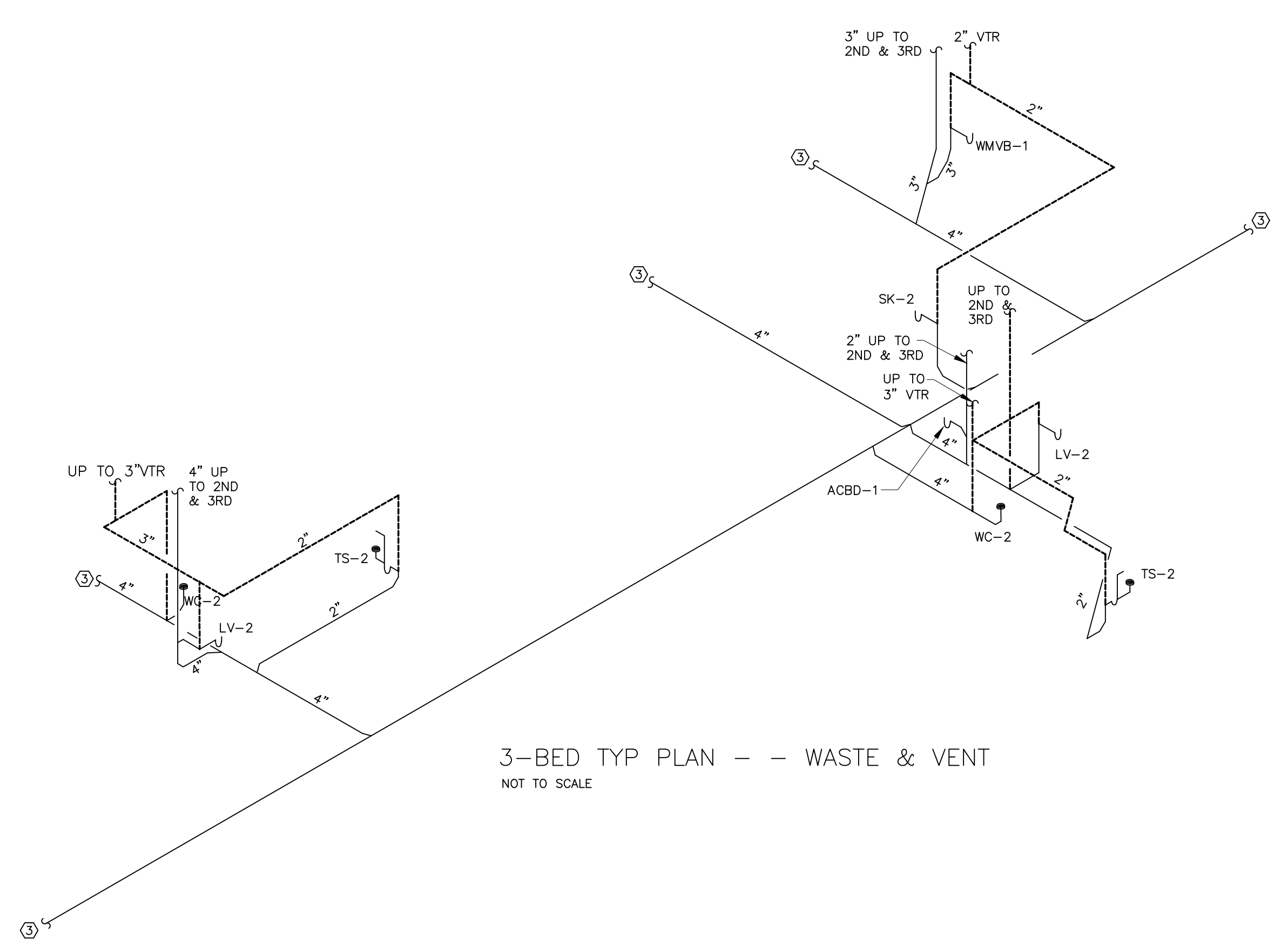
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P04
 CAD FILE NUMBER



2 3-BED TYP PLAN - WASTE & VENT
 P05 1/4" = 1'-0"



1 3-BED TYP PLAN - COLD & HOT WATER
 P05 1/4" = 1'-0"



3-BED TYP PLAN - WASTE & VENT
 NOT TO SCALE

- GENERAL NOTES:**
- ROUTE DOMESTIC WATER PIPING WITHIN THE CEILING/FLOOR ASSEMBLY OR ATTIC WITHIN THE INSULATED ENVELOPE OF THE BUILDING.
- DRAWING KEYNOTES:**
- COLD WATER PIPING UP TO SECOND AND THIRD FLOOR AT BUILDING A; UP TO SECOND FLOOR AT BUILDING B.
 - SHUT-OFF VALVE AND SUB-METER AT UNIT. MOUNT ABOVE THE WATER HEATER FOR ACCESS/MAINTENANCE.

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SHEET NUMBER
P05
 CAD FILE NUMBER

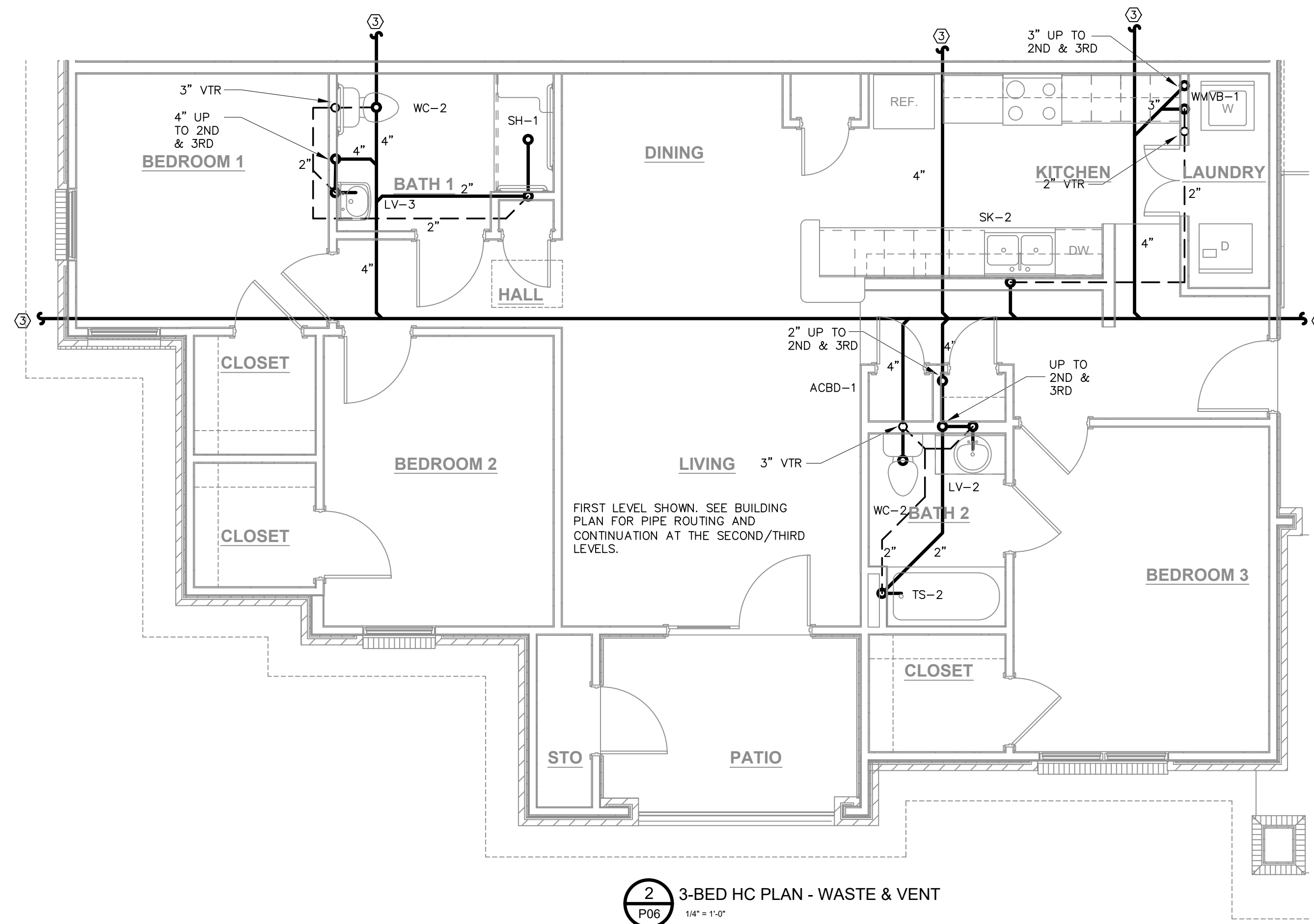


GENERAL NOTES:

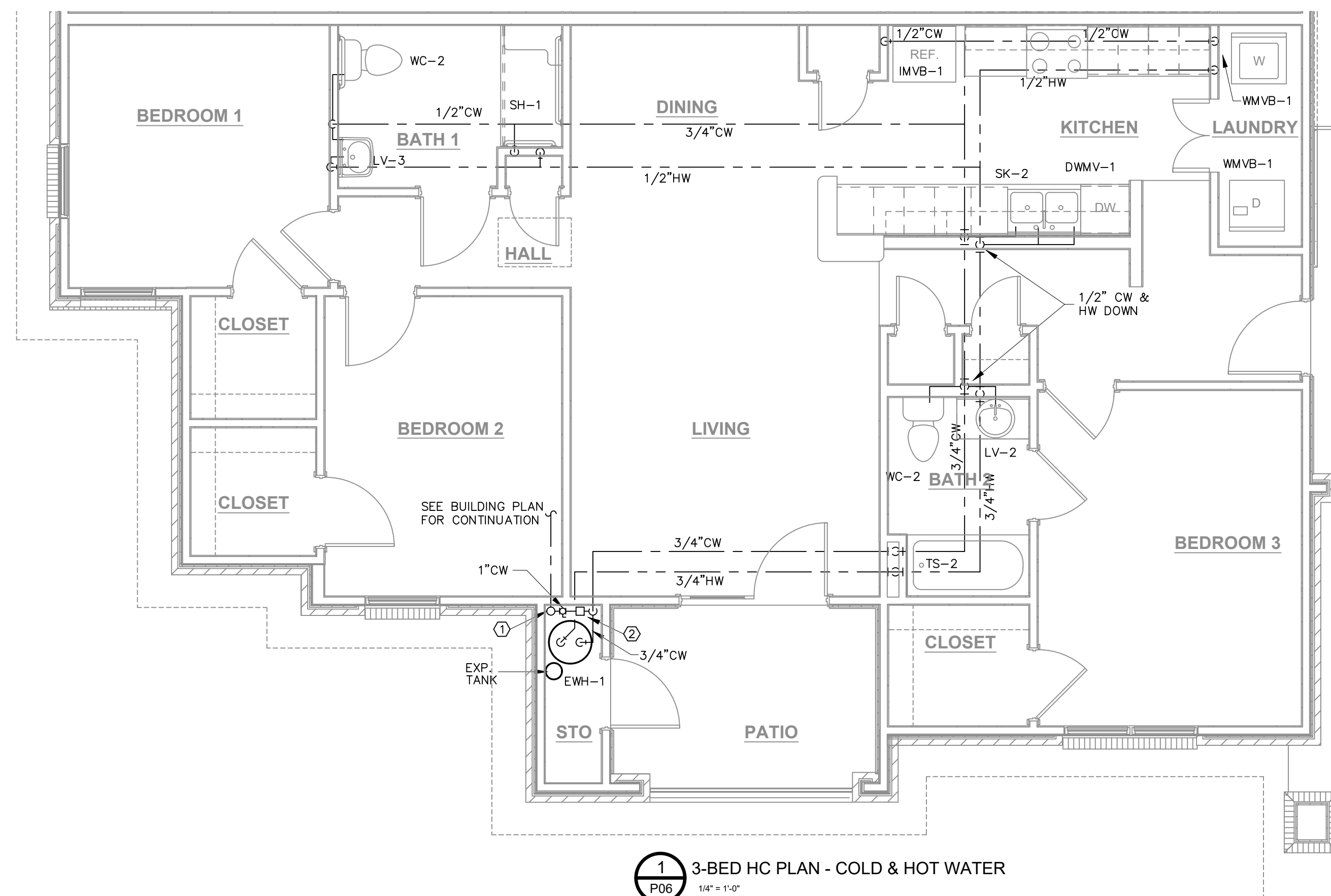
1. ROUTE DOMESTIC WATER PIPING WITHIN THE CEILING/FLOOR ASSEMBLY OR ATTIC WITHIN THE INSULATED ENVELOPE OF THE BUILDING.

DRAWING KEYNOTES:

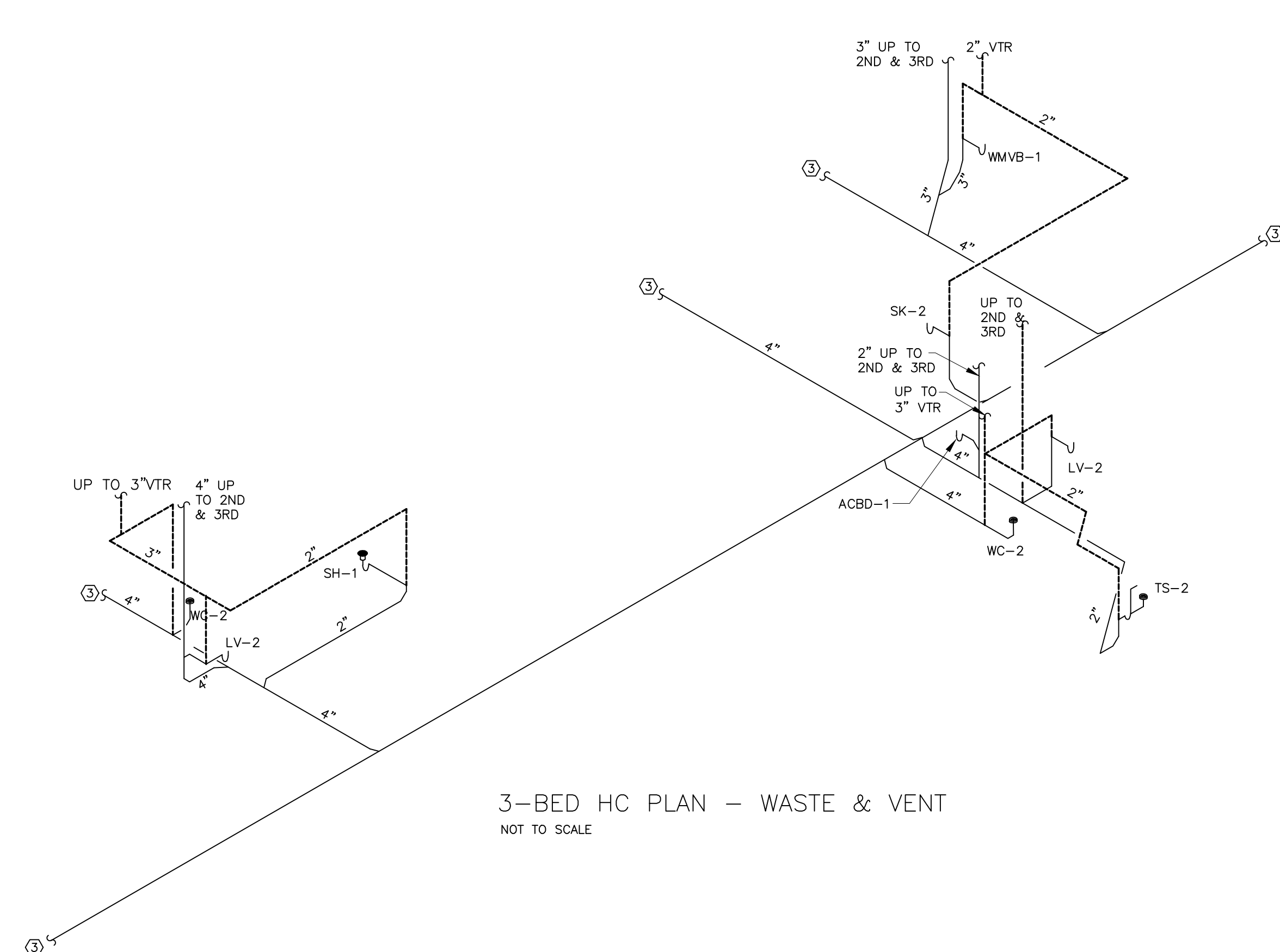
- ① COLD WATER PIPING UP TO SECOND AND THIRD FLOOR AT BUILDING A; UP TO SECOND FLOOR AT BUILDING B.
- ② SHUT-OFF VALVE AND SUB-METER AT UNIT. MOUNT ABOVE THE WATER HEATER FOR ACCESS/MAINTENANCE.



2 3-BED HC PLAN - WASTE & VENT
 P06 1/4" = 1'-0"



1 3-BED HC PLAN - COLD & HOT WATER
 P06 1/4" = 1'-0"



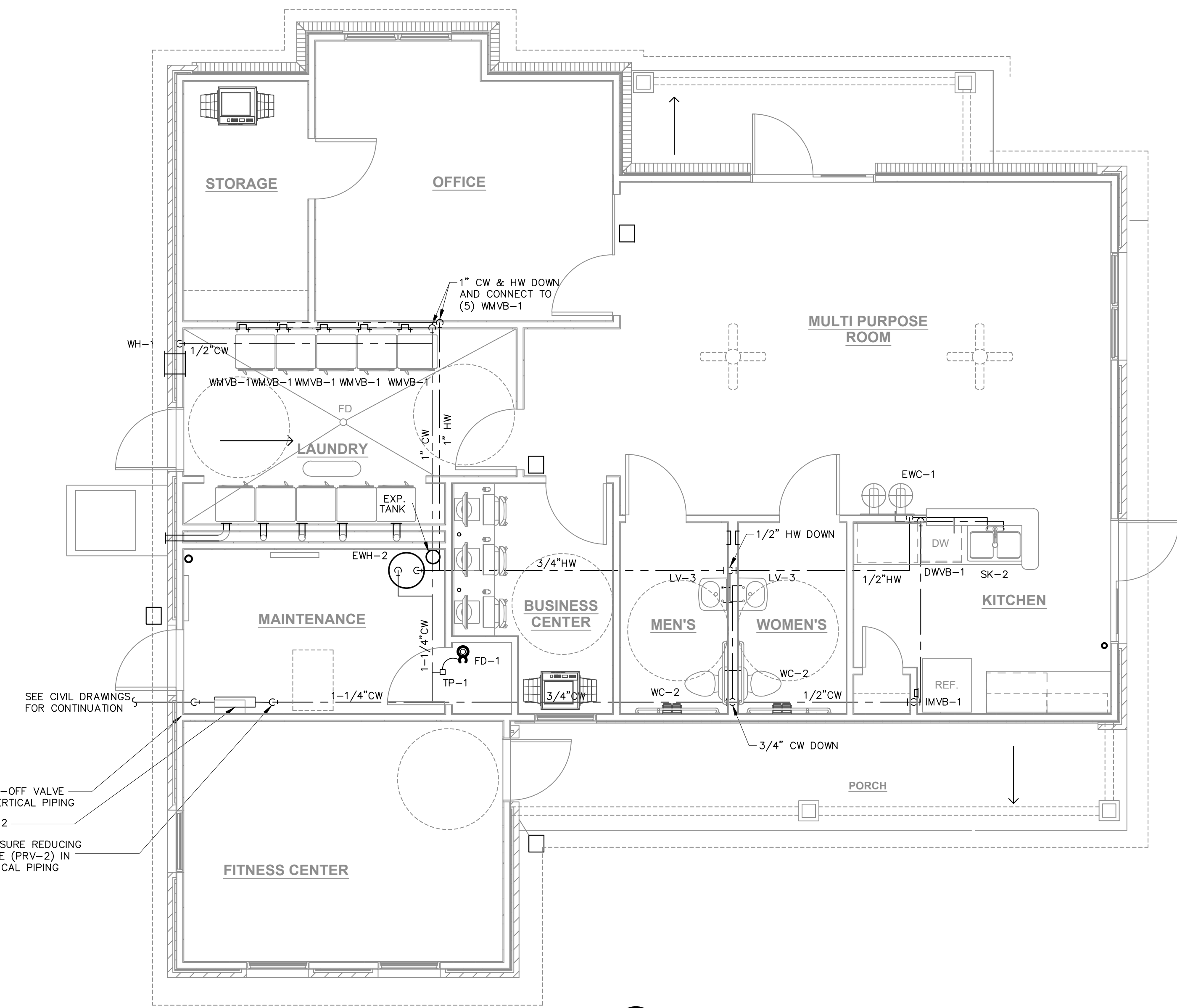
3-BED HC PLAN - WASTE & VENT
 NOT TO SCALE

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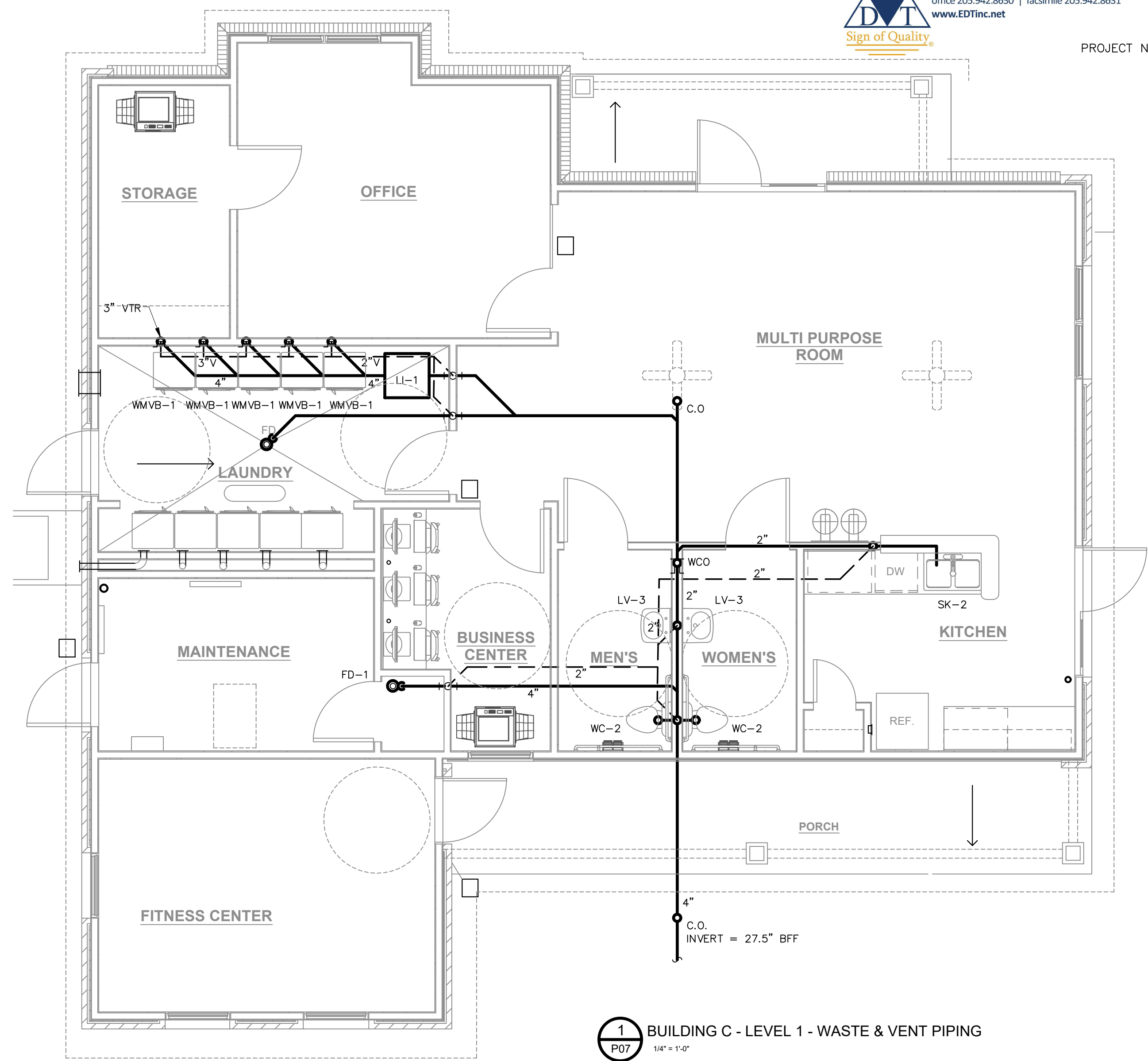
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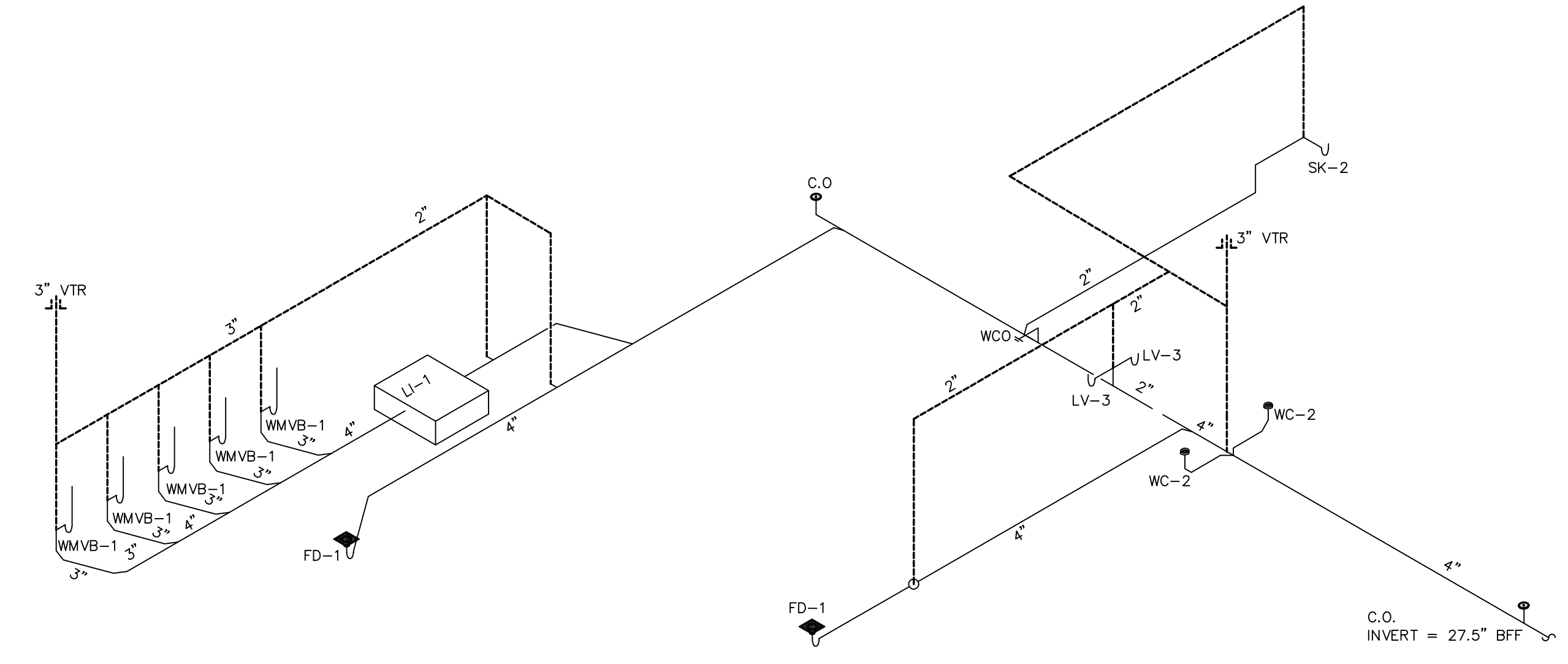
SHEET NUMBER
P06
 CAD FILE NUMBER



2 BUILDING C - LEVEL 1 - COLD & HOT WATER
 P07 1/4" = 1'-0"



1 BUILDING C - LEVEL 1 - WASTE & VENT PIPING
 P07 1/4" = 1'-0"



3 BUILDING C - LEVEL 1 - WASTE & VENT RISER DIAGRAM
 P07 NOT TO SCALE

SEE CIVIL DRAWINGS FOR CONTINUATION

SHUT-OFF VALVE IN VERTICAL PIPING
 BFP-2

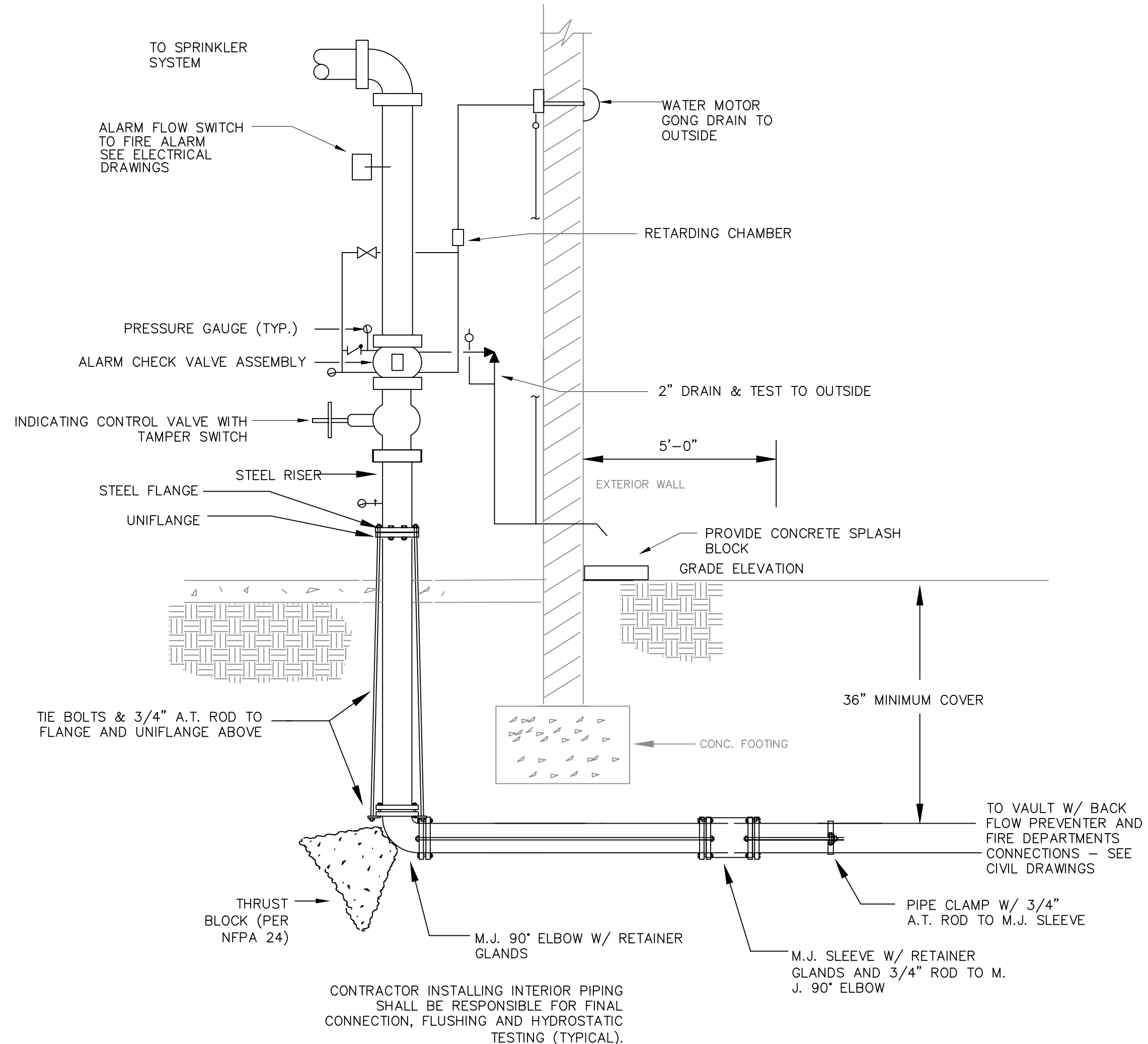
PRESSURE REDUCING VALVE (PRV-2) IN VERTICAL PIPING

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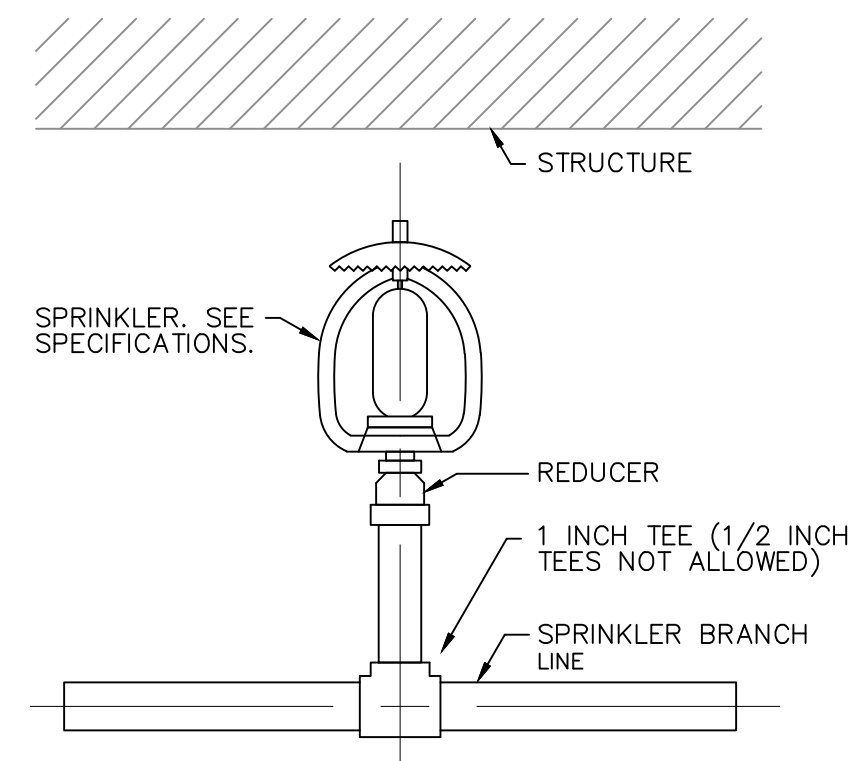
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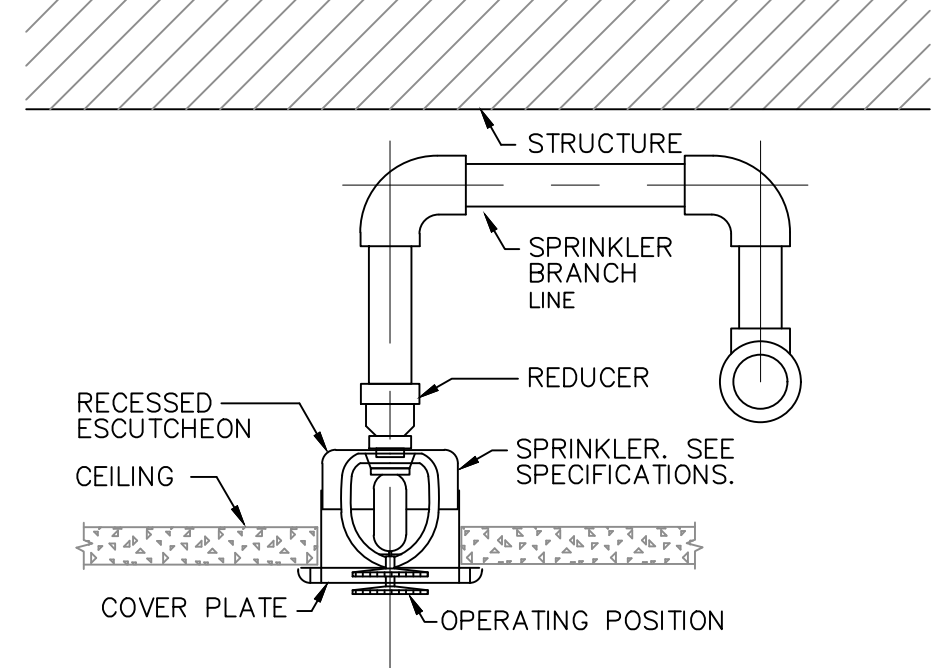
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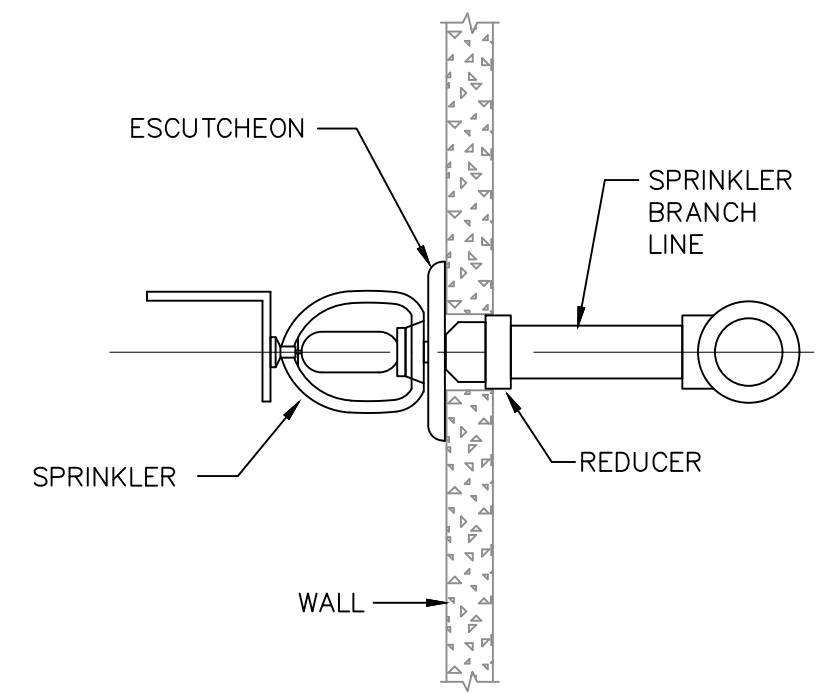
1 FIRE PROTECTION ENTRANCE DETAIL VALVE
 FP01 NO SCALE



2 UPRIGHT SPRINKLER HEAD
 FP01 NO SCALE



3 CONCEALED SPRINKLER HEAD
 FP01 NO SCALE



4 SIDEWALL SPRINKLER HEAD
 FP01 NO SCALE

GENERAL NOTES:

- 1 FIRE PROTECTION LAYOUTS SHOWN ON PLANS ARE FOR INFORMATIONAL PURPOSES ONLY. IT IS THE INTENT OF THESE DRAWINGS TO INDICATE AREAS OF COVERAGE, TYPES OF SPRINKLER HEADS AND FINISHES TO BE USED, TYPES OF FIRE PROTECTION SYSTEMS TO BE INSTALLED AND LOCATIONS OF MAJOR EQUIPMENT AND COMPONENTS. THE FIRE PROTECTION CONTRACTOR SHALL DESIGN A FULL AND COMPLETE FIRE PROTECTION SYSTEM BASED ON HYDRAULIC INFORMATION, LAYOUT OF PIPING SYSTEM AS COORDINATED WITH OTHER TRADES AND SPECIFIC COMPONENTS USED IN FIRE PROTECTION SYSTEM. ALL DESIGNS SHALL BE PER NFPA-13R.
- 2 PIPING LAYOUT SHOWN IS DIAGRAMMATIC AND NOT INTENDED TO SHOW ALL OFFSETS AND CHANGES IN ELEVATION NECESSARY FOR COMPLETE INSTALLATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING BID.
- 3 CONTRACTOR SHALL PROVIDE NECESSARY OFFSETS IN NEW PIPING AND ELECTRICAL CONDUIT AS REQUIRED TO ACCOMMODATE NEW WORK. CONTRACTOR SHALL ALLOW FOR ANY CONFLICTS ENCOUNTERED.
- 4 REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR LOCATION OF LIGHTS, DIFFUSERS, GRILLES AND ALL OTHER CEILING MOUNTED DEVICES. COORDINATE WITH THE REFLECTED CEILING PLAN TO DETERMINE ACTUAL LOCATION OF SPRINKLERS.
- 5 ALL NEW FIRE PROTECTION PIPING SHALL BE INSTALLED AS CLOSE TO STRUCTURE ABOVE AS POSSIBLE.
- 6 ALL UNUSED FIRE PROTECTION PIPING, WHETHER NEW OR EXISTING, SHALL BE REMOVED. ALL SPRINKLER HEADS INSTALLED UNDER THIS CONTRACT SHALL BE NEW.
- 7 SPACE ABOVE CEILING IS LIMITED. CAREFUL COORDINATION WITH LIGHTING, ELECTRICAL, PLUMBING, STRUCTURE, AND ARCHITECTURAL TRADES IS CRITICAL TO COMPLETE INSTALLATION.
- 8 COORDINATION SHOP DRAWINGS SHALL BE PREPARED FOR THE ENTIRE PROJECT DRAWN TO 1/4" = 1'-0" SCALE (MINIMUM). DRAWINGS SHALL BE FULLY DIMENSIONED, INCLUDING ELEVATIONS OF DUCTWORK, PIPING, MAJOR HANGER SUPPORTS, PNEUMATIC TUBING AND MAJOR ELECTRICAL CONDUIT (2" AND LARGER.) CEILING COORDINATION PLANS SHALL ALSO SHOW CEILING GRID, LIGHTING LAYOUT, SPRINKLER LAYOUT AND MECHANICAL GRILLES.
- 9 GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COLLECTION VERIFICATION AND SUBMITTAL OF SHOP DRAWINGS TO OWNER, ARCHITECT AND ENGINEER.
- 10 SYSTEM DESIGN AND INSTALLATION SHALL COMPLY WITH NFPA 72.
- 11 WHERE REFERENCED SYSTEM SHALL COMPLY WITH NFPA 70.
- 12 ALL SPRINKLERS WITHIN THE SCOPE OF THIS PROJECT SHALL BE QUICK RESPONSE TYPE. SPRINKLER HEADS USED SHALL COMPLY WITH REQUIREMENTS OF NFPA-13R (APARTMENT BUILDINGS)
- 13 CONTRACTOR SHALL PROVIDE TEST AND DRAIN CONNECTION IN ACCORDANCE WITH NFPA-13R. DRAIN SHALL DISCHARGE TO A LOCATION CAPABLE OF ACCEPTING FULL FLOW UNDER NORMAL SYSTEM PRESSURE WITHOUT CAUSING WATER DAMAGE.

SPRINKLER NOTES:

1. PROVIDE SPRINKLER COVERAGE FOR BUILDING IN ACCORDANCE WITH 13R SYSTEM FOR THE APARTMENT BUILDINGS AND SPECIFICATION REQUIREMENTS.
2. ROUTE WET SYSTEM MAIN PIPING OUTSIDE ELECTRICAL AND TELECOM ROOMS. SPRINKLERS IN ELECTRICAL AND TELECOM ROOMS SHALL BE SUPPLIED BY PIPING THAT TERMINATES IN THE ROOM AND DOES NOT PASS DIRECTLY OVER ELECTRICAL PANELS (TYPICAL FOR ALL).
3. SEE CIVIL DRAWINGS FOR LOCATION AND PIPING ARRANGEMENT OF FDC AND BACKFLOW PREVENTER. FIRE PROTECTION CONTRACTOR SHALL COORDINATE EXACT LOCATION PRIOR TO INSTALLATION.
4. ALL BRANCH LINES SHALL BE RUN IN JOIST SPACE WHERE POSSIBLE. COORDINATE WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
5. WET SYSTEM PIPING SHALL BE INSTALLED WITHIN THE HEATED ENVELOPE OF THE BUILDING EXCEPT AT APARTMENT BUILDING BREEZEWAY CROSSING - THE WET SYSTEM PIPING SHALL BE HEAT TRACED FOR FREEZE PROTECTION.
6. FIRE STOP AND SEAL ALL PENETRATIONS IN RATED WALLS IN ACCORDANCE WITH SPECIFICATIONS.
7. ALL MATERIALS, WORKMANSHIP AND TESTING SHALL MEET THE REQUIREMENTS OF APPLICABLE STATE/LOCAL CODES.
8. PROVIDE DRY-SIDEWALL/DRY-PENDENT SPRINKLERS FOR PROTECTION OF EXTERIOR BALCONIES AND GROUND FLOOR PATIOS WHERE REQUIRED BY 2018 IBC.

FIRE PROTECTION LEGEND

- FP— FIRE PROTECTION PIPING
- ⚡ FLOW SWITCH
- ⊗ INSPECTOR'S TEST VALVE
- ⊗ VALVE WITH TAMPER SWITCH
- PENDENT SPRINKLER HEAD
- CONCEALED SPRINKLER WITH WHITE COVER PLATE
- SEMI-RECESSED SPRINKLER HEAD
- UPRIGHT SPRINKLER HEAD

OCCUPANCY GUIDELINES

LIGHT HAZARD:
 ADMINISTRATION AREAS
 SEMINAR ROOMS
 LOBBIES
 WAITING AREAS
 LABORATORIES
 RESTROOMS
 CORRIDORS
 STAIRWAYS

ORDINARY HAZARD GROUP 1
 STORAGE ROOM - EQUAL OR LESS THAN 100 SF
 ELECTRICAL ROOMS
 TELEPHONE AND DATA ROOMS

ORDINARY HAZARD GROUP 2
 ELECTRICAL SWITCH GEAR AND TRANSFORMER ROOMS
 STORAGE ROOM OVER 100 SF
 CENTRAL MECHANICAL EQUIPMENT ROOMS
 ELEVATOR EQUIPMENT ROOMS

CONTRACTOR SHALL PROVIDE FIELD CONDUCTED FLOW TEST FOR THE SYSTEM DESIGN:

LOCATION: _____

STATIC PRESSURE: _____

RESIDUAL PRESSURE: _____

FLOWING: _____ G.P.M.

DATE OF TEST: _____

TIME OF DAY: _____

FIRESTOP NOTES:

1. PROVIDE THROUGH-PENETRATION FIRESTOP SYSTEMS FOR PIPING AND CONDUIT PENETRATIONS THROUGH FIRE-RESISTANCE-RATED ASSEMBLIES:
 - A. FLOORS
 - B. ROOFS
 - C. WALLS AND PARTITIONS
2. FIRESTOP SYSTEMS PROVIDED SHALL RESIST SPREAD OF FIRE, RESIST PASSAGE OF SMOKE AND OTHER GASES, AND MAINTAIN ORIGINAL FIRE-RESISTANCE RATING OF ASSEMBLY PENETRATED. WHERE RATING OF EXISTING BUILDING COMPONENT PENETRATED IS NOT KNOWN CONTACT ARCHITECT FOR DETERMINATION.
3. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF SMOKE WALLS WHERE PROVIDED.

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The Park At Barton

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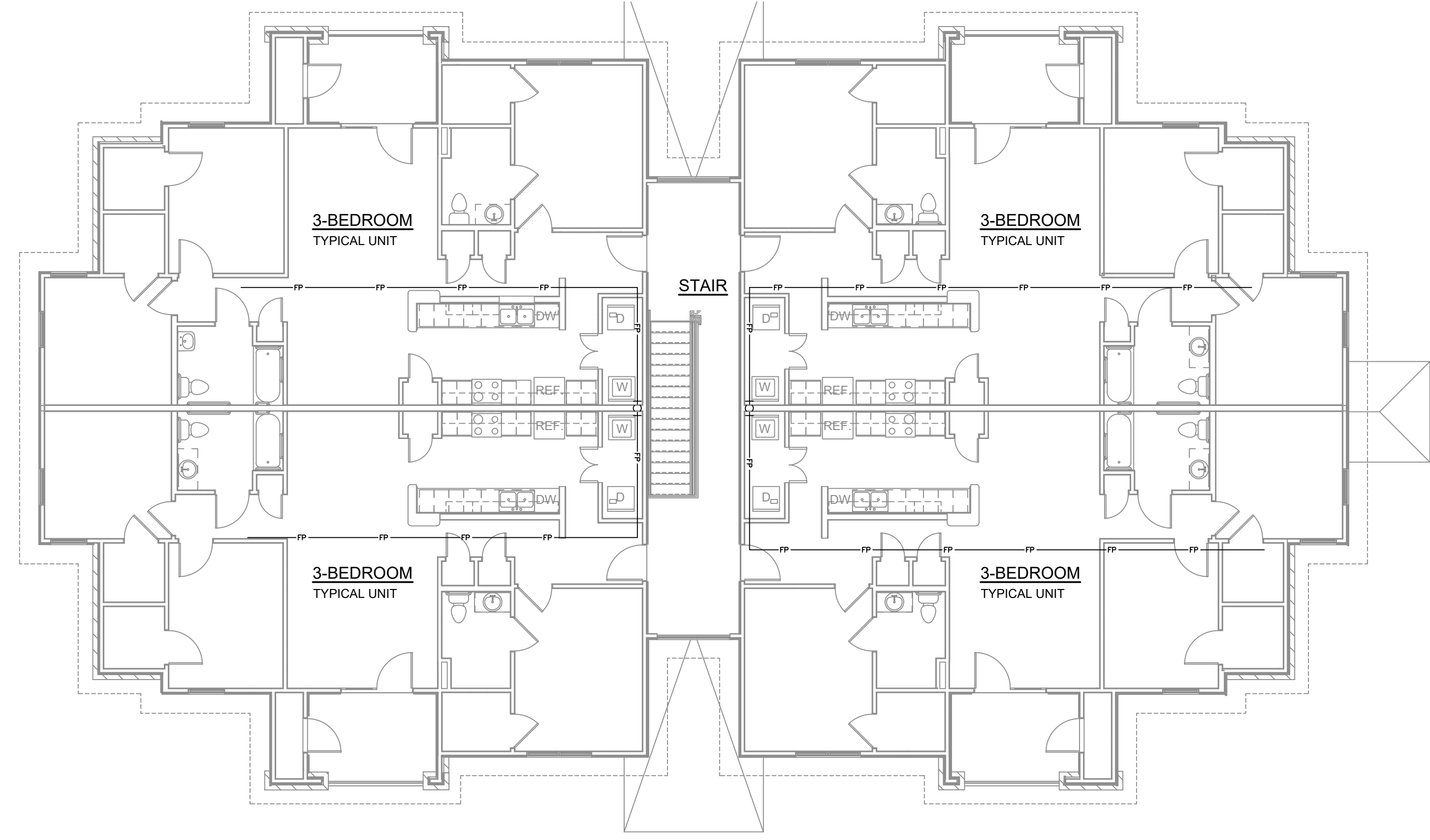
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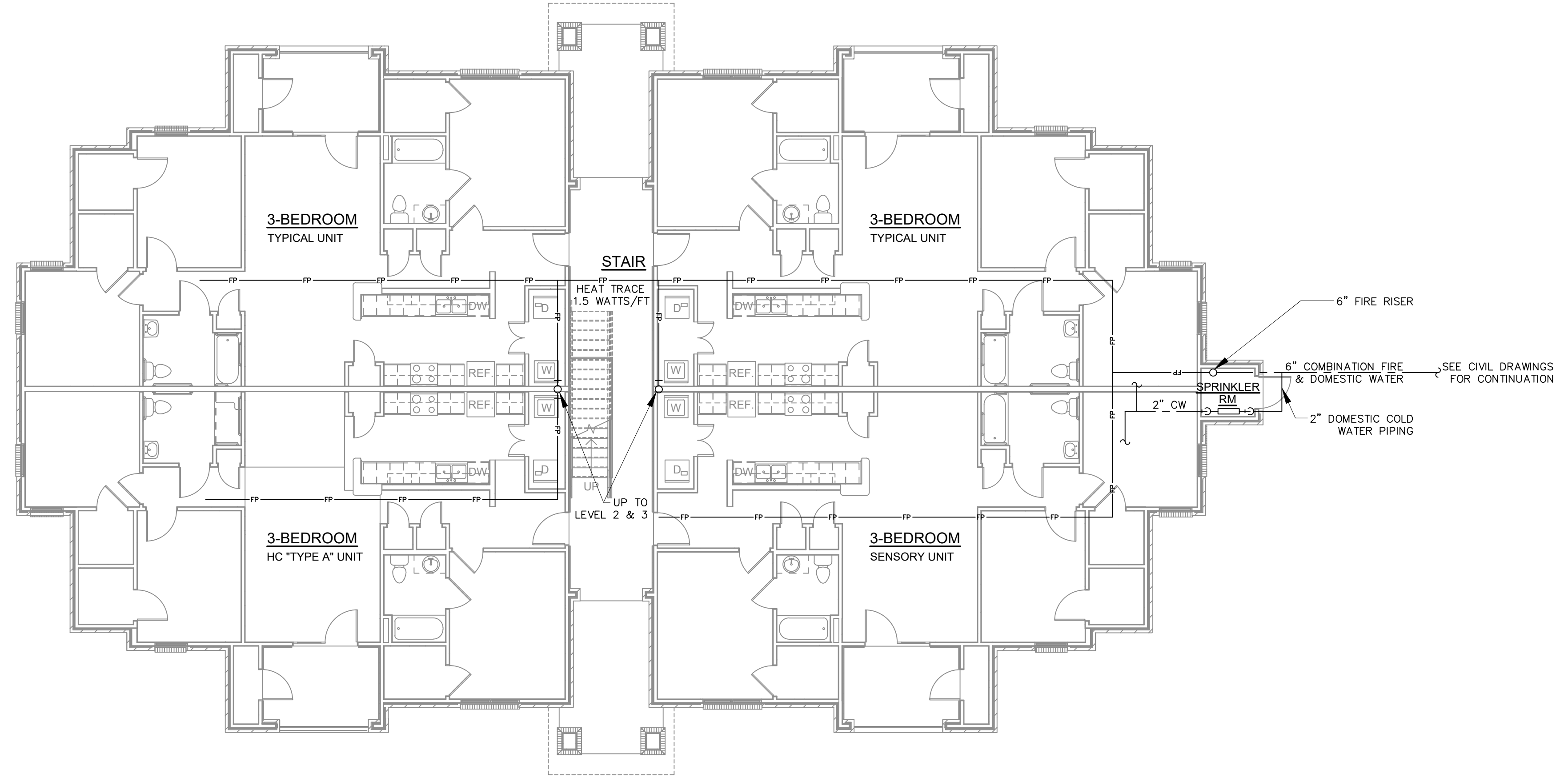


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2 BUILDING A - LEVEL 2
 FP02 1/8" = 1'-0"

THE SPRINKLER MAINS SHOWN ON THIS DRAWING ARE A SUGGESTED PIPING LAYOUT. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR DESIGNING THE ENTIRE FIRE PROTECTION SPRINKLER PIPING LAYOUT AND PIPE SIZES IN ACCORDANCE WITH THE HYDRAULIC CALCULATION. THE SYSTEM SHALL BE DESIGNED TO PROVIDE FIRE PROTECTION FOR ENTIRE BUILDING.



1 BUILDING A - LEVEL 1
 FP02 1/8" = 1'-0"

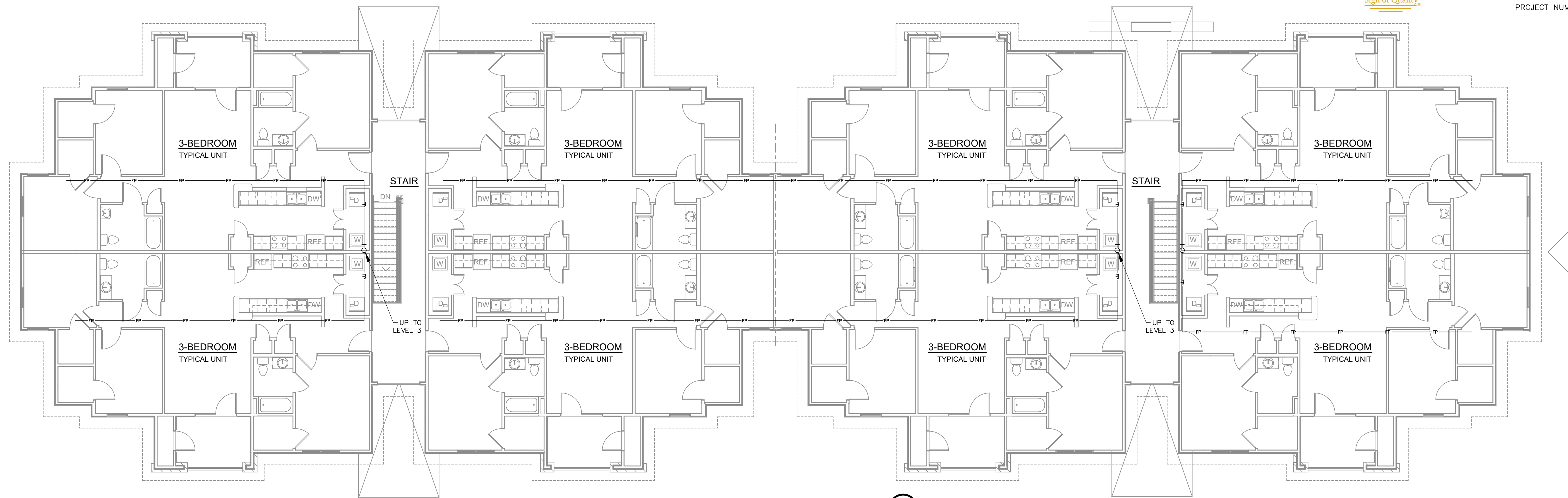
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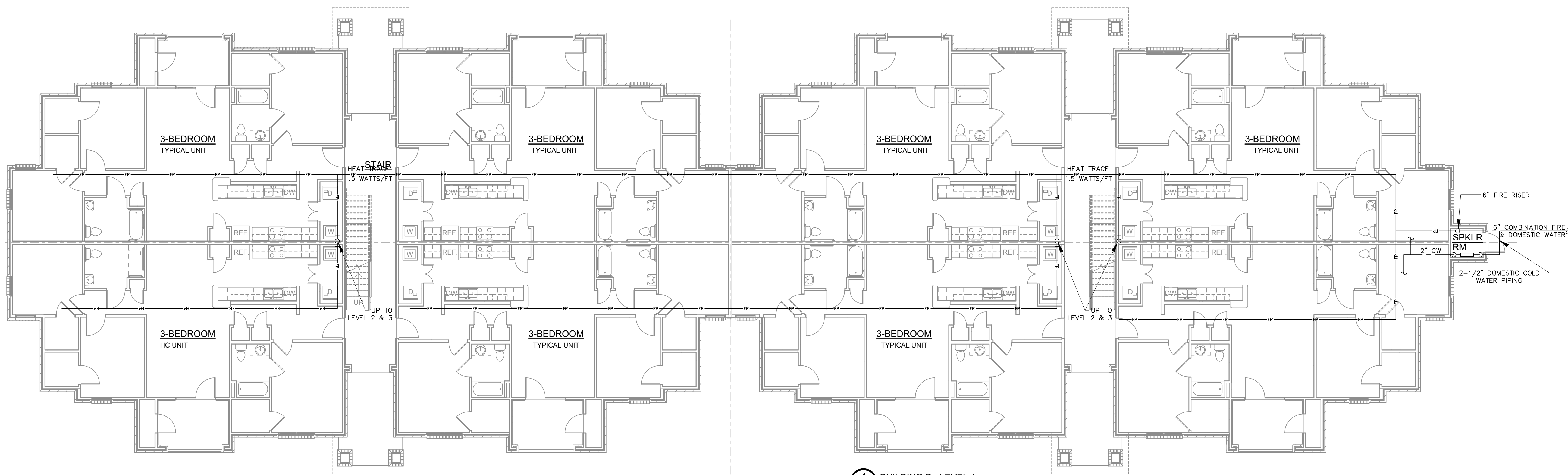
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FP02
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2 BUILDING B - LEVEL 2 & 3
 FP03 1/8" = 1'-0"

THE SPRINKLER MAINS SHOWN ON THIS DRAWING ARE A SUGGESTED PIPING LAYOUT. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR DESIGNING THE ENTIRE FIRE PROTECTION SPRINKLER PIPING LAYOUT AND PIPE SIZES IN ACCORDANCE WITH THE HYDRAULIC CALCULATION. THE SYSTEM SHALL BE DESIGNED TO PROVIDE FIRE



1 BUILDING B - LEVEL 1
 FP03 1/8" = 1'-0"

THE SPRINKLER MAINS SHOWN ON THIS DRAWING ARE A SUGGESTED PIPING LAYOUT. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR DESIGNING THE ENTIRE FIRE PROTECTION SPRINKLER PIPING LAYOUT AND PIPE SIZES IN ACCORDANCE WITH THE HYDRAULIC CALCULATION. THE SYSTEM SHALL BE DESIGNED TO PROVIDE FIRE

DATE
 11/20/2018 PERMIT SET

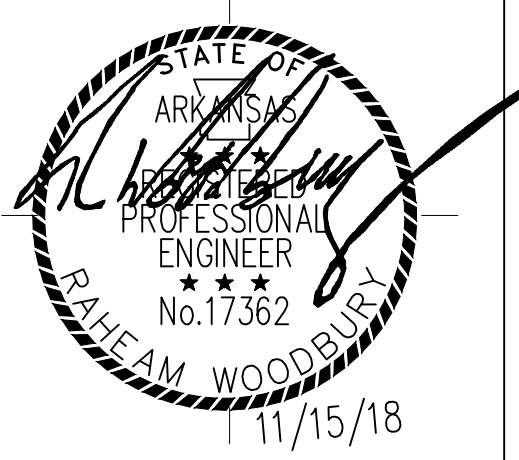
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The Park At Barton

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SHEET NUMBER

FP03

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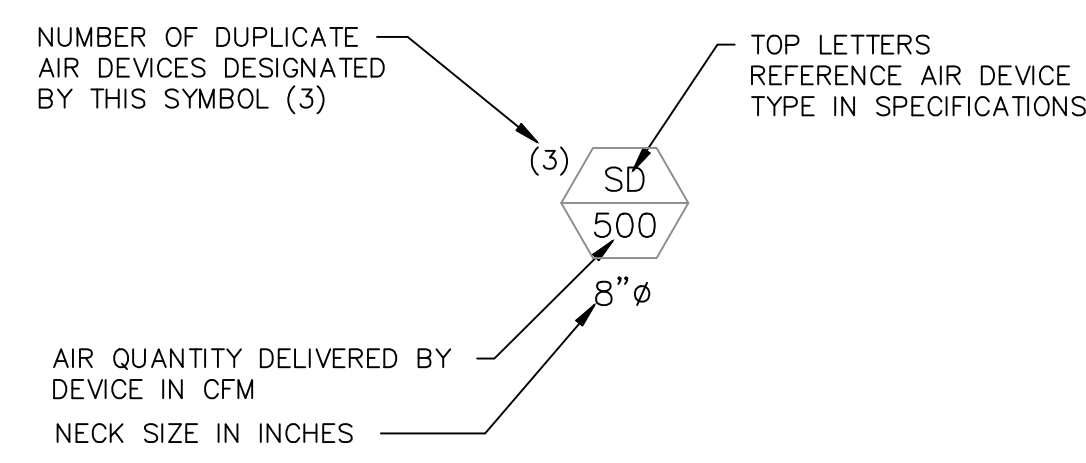


HVAC LEGEND

	DUCT SIZE, FIRST FIGURE IS SIDE SHOWN
	LOW PRESSURE, RECTANGULAR (GALVANIZED STEEL)
	ROUND (GALVANIZED STEEL)
	DUCT RISE
	DUCT DROP
	DUCT TRANSITION
	RECTANGULAR TO ROUND DUCT TRANSITION
	TURNING VANES
	FIRE DAMPER AND SLEEVE, PROVIDE ACCESS DOOR
	MANUAL VOLUME DAMPER
	STANDARD 45° BRANCH, SUPPLY OR RETURN, NO SPLITTER, WITH MANUAL VOLUME DAMPER
	CONICAL SPIN-IN FITTING WITH BUTTERFLY DAMPER
	GRILLE OR REGISTER, CEILING
	CONDENSATE DRAIN PIPING
	AUXILIARY CONDENSATE DRAIN PIPING
	REFRIGERANT PIPING (2 LINES TOTAL)
	ELBOW, 90° (LONG RADIUS)
	TEE
	ELBOW, TURNED DOWN
	ELBOW, TURNED UP
	GATE VALVE
	BALL VALVE
	BUTTERFLY VALVE
	UNION
	WALL MOUNTED THERMOSTAT
	WALL MOUNTED TEMPERATURE SENSOR FOR AVERAGING TEMPERATURE WITHIN THE ZONE
	TIE NEW INTO EXISTING
	UNDERCUT DOOR 3/4 INCHES
	SUPPLY AIR FLOW
	RETURN OR EXHAUST AIR FLOW

NOTE: THIS LEGEND IS FOR REFERENCE ONLY. ALL SYMBOLS WHICH APPEAR WITHIN THE LEGEND MAY NOT APPLY TO THIS PROJECT.

AIR DEVICE LEGEND



INDOOR / OUTDOOR DESIGN CONDITIONS			
OUTDOOR SUMMER	INDOOR SUMMER	OUTDOOR WINTER	INDOOR WINTER
94.0°F DB / 77.0°F WB	75°F DB / 63°F WB 50% TO 55% RELATIVE HUMIDITY	21.0°F DB / 19.5 °F WB	70°F DB / 59°F WB

SPLIT SYSTEM HEAT PUMP UNITS

MARK	SERVING AREA	NOMIN. CFM	NOMIN. TONNAGE	O.A. CFM	ESP IN. WG.	FAN MOTOR HP	COOLING				HEATING @ 47°F			SUPP. ELECT. HEAT, KW	MOTOR FLA	MCA	MOCP	WEIGHT (LBS)	DESIGN BASIS	REMARKS			
							TOTAL CAP. MBH	SENS. CAP. MBH	MIN. SEER	ENTERING AIR DB (F) WB (F)	LEAVING AIR DB (F) WB (F)	CAPACITY MBH	ENTERING AIR DB (F)								MIN. HSPF		
AHU-1	3 BEDROOM BLDG	1000	2.5	NATURAL	0.5	1/2	29.4	22.5	15.0	75	63	56	57	27.0	70.0	9.0	7	2.8	42	45	95	RHEEM RHM36175EAC	①②③④⑤⑥
AHU-2	CLUBHOUSE	1990	5.0	300	0.7	3/4	58.0	42.4	15.0	77.9	65.2	56	57	56.0	62.7	9.0	15	4.9	82	90	160	RHEEM RHM60245EAC	①②③④⑤⑥

- ① ELECTRICAL CHARACTERISTICS: 240/1/60
- ② VERTICAL UNIT
- ③ PROVIDE WITH INTERNAL FILTER RACK AND FILTER (MERV 8)
- ④ PROVIDE WITH SINGLE POINT POWER CONNECTION AND SINGLE STAGE OF ELECTRIC HEAT
- ⑤ PROVIDE WITH MANUFACTURER'S "ENERGY STAR" COMPLIANT PROGRAMMABLE THERMOSTAT (COMFORTstat MODEL CP2810)
- ⑥ COMPATIBLE WITH R-410A REFRIGERANT

SPLIT SYSTEM OUTDOOR UNIT (HEAT PUMP)

MARK	TYPE	SERVICE	DESCRIPTION	TOTAL COOLING CAPACITY MBH	CONDENSER AMBIENT TEMP. °F	TOTAL HEATING CAPACITY MBH	CONDENSER AMBIENT TEMP. °F	FAN MOTOR HP	COMPRESSOR RLA (AMPS)	COMPRESSOR LRA (AMPS)	MCA	MOCP	WEIGHT (LBS)	DESIGN BASIS	REMARKS
HP-1	DIRECT EXP.	AHU-1	HEAT PUMP	29.4	95	27.0	47	1/5	12.8	67.8	18	25	160	RHEEM RP1730AJV	①②
HP-2	DIRECT EXP.	AHU-2	HEAT PUMP	58.0	95	56.0	47	1/5	23.7	152.5	31	50	235	RHEEM RP1760AJV	①②

- ① ELECTRICAL CHARACTERISTICS: 240/1/60
- ② PROVIDE WITH R-410A REFRIGERANT

VENTILATION FAN SCHEDULE

MARK	CFM	TYPE	SONES	STATIC PRESS. IN. WG	MAX. RPM	MOTOR WATTS	DRIVE	SERVING LOCATION	INTERLOCK	WEIGHT (LBS)	DESIGN BASIS	REMARKS
EF-1	50	CENTRIFUGAL	1.5	0.1	-	17.5	DIRECT	BATHROOMS	WALL SWITCH	10	NUTONE 50NT	①②③
EF-2	70	CENTRIFUGAL	1.5	0.1	-	17.5	DIRECT	COMM. BLDG. RESTRM	LIGHTS	10	NUTONE 80NT	①③④

- ① ELECTRICAL CHARACTERISTICS: 120/1/60
- ② PROVIDE WITH BACKDRAFT DAMPER, PLASTIC GRILLE, CEILING RADIATION DAMPER (FIRE DAMPER)
- ③ "ENERGY STAR" COMPLIANT
- ④ PROVIDE WITH BACKDRAFT DAMPER AND PLASTIC GRILLE

GENERAL NOTES

- THE INTENT OF THESE DRAWINGS ARE SUCH THAT THE CONTRACTOR SHALL INCLUDE ALL LABOR, MATERIAL, EQUIPMENT, TRANSPORTATION, PERMITS, FEES, LICENSES AND PROPER SUPERVISION NECESSARY TO INSTALL AND COMPLETE THE NECESSARY WORK AS SHOWN ON THE DRAWING.
- WORK NOT SPECIFICALLY COVERED ON THE DRAWINGS, BUT THAT IS REASONABLY INFERRABLE AS BEING NECESSARY TO PRODUCE THE INTENDED RESULTS SHALL BE QUOTED AND/OR PERFORMED AS IF SPECIFICALLY DETAILED HEREIN.
- THE DRAWINGS ARE INDICATIVE OF THE CHARACTER AND SCOPE OF WORK AND ARE NOT INTENDED TO SHOW ALL THE DETAILS.
- CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL MECHANICAL EQUIPMENT, DUCTWORK, ETC. TO FIT WITHIN THE SPACE ALLOWED BY THE ARCHITECTURAL AND STRUCTURAL CONDITIONS. CUTTING OR OTHERWISE ALTERING ANY STRUCTURAL MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT.
- DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS. WHERE INTERNAL INSULATION IS CALLED FOR, DIMENSIONS SHALL BE INCREASED BY THE THICKNESS OF INSULATION.
- PORTIONS OF THE DUCTS VISIBLE THROUGH GRILLES AND REGISTERS IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK.
- WHERE DUCTWORK IS LINED, NO THERMAL INSULATION IS REQUIRED. WHERE UNLINED DUCT AND LINED DUCT CONNECT, THE INSULATION SHALL OVERLAP LINED SECTION AT LEAST 4".
- EXACT LOCATION OF ALL CEILING DIFFUSERS, GRILLES, AND REGISTERS SHALL BE COORDINATED WITH THE ARCHITECT.
- CONTRACTOR TO COORDINATE VOLTAGE AND PHASE OF EACH EQUIPMENT WITH ELECTRICAL CONTRACTOR BEFORE ORDERING.
- COORDINATE THE LOCATION OF ALL PENETRATIONS OF THE STRUCTURE WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE ADEQUATE ACCESS TO ALL EQUIPMENT.
- VERIFY CONDITIONS IN FIELD PRIOR TO BEGINNING WORK.
- PROVIDE NECESSARY OFFSETS IN PIPING, ELECTRICAL CONDUIT, AND DUCTWORK AS REQUIRED TO ACCOMMODATE NEW WORK. CONTRACTOR SHALL ALLOW FOR ANY CONFLICTS ENCOUNTERED.
- MOUNT THERMOSTATS 44" (CENTER OF THERMOSTAT) ABOVE FINISHED FLOOR. COORDINATE EXACT LOCATION WITH ARCHITECT.
- DRYER EXHAUST DUCTWORK SHALL BE CONSTRUCTED OF MINIMUM 26 GAUGE GALVANIZED STEEL. THE INTERIOR SHALL BE SMOOTH WITH NO PROJECTIONS AND JOINTS RUNNING IN THE DIRECTION OF AIR FLOW. PROVIDE GRAVITY BACKDRAFT DAMPER AT TERMINATION OF EXHAUST DUCT.
- COORDINATE WITH ARCHITECTURAL SITE PLAN FOR THE LOCATION AND ORIENTATION OF THE BUILDINGS.
- AT THE EXPOSED, EXTERIOR REFRIGERANT PIPING INSULATION, PROVIDE UV PROTECTIVE COATING OR PVC JACKET.

DIFFUSER, GRILLE & REGISTER

MARK	USE	LENGTH IN.	HEIGHT IN.	CONN. DIA.	FACE SIZE	NC MAX.	AIRFLOW MAX. CFM	AIRFLOW PATTERN	DESIGN BASIS	REMARKS
SG1	SUPPLY	-	-	-	8x4	25	70	2 WAY	LIMA 60Z	①②
SG2	SUPPLY	-	-	-	12x6	25	160	2 WAY	LIMA 60Z	①②
SG3	SUPPLY	-	-	-	12x8	25	255	2 WAY	LIMA 60Z	①②
RG1	RETURN	18	18	-	18x18	25	1000	-	LIMA 60GH	①②
RG2	RETURN	12	12	-	12x12	25	460	-	LIMA 60GH	①②

- ① PROVIDE STANDARD WHITE FINISH
- ② CEILING GRILLE

ELECTRIC UNIT HEATER

MARK	AREA SERVED	TYPE	FAN MOTOR HP	AIRFLOW CFM	KW	DESIGN BASIS	REMARKS
EUH-1	FIRE RISER ROOM	WALL MTD.	--	245	2.0	MARKEL 3450 SERIES	①②

- ① PROVIDE WITH UNIT MOUNTED THERMOSTAT, TAMPER PROOF COVER, AND SURFACE MOUNTED SLEEVE. MOUNT HEATER 12" ABOVE FINISHED FLOOR.
- ② ELECTRICAL CHARACTERISTICS: 240/1/60

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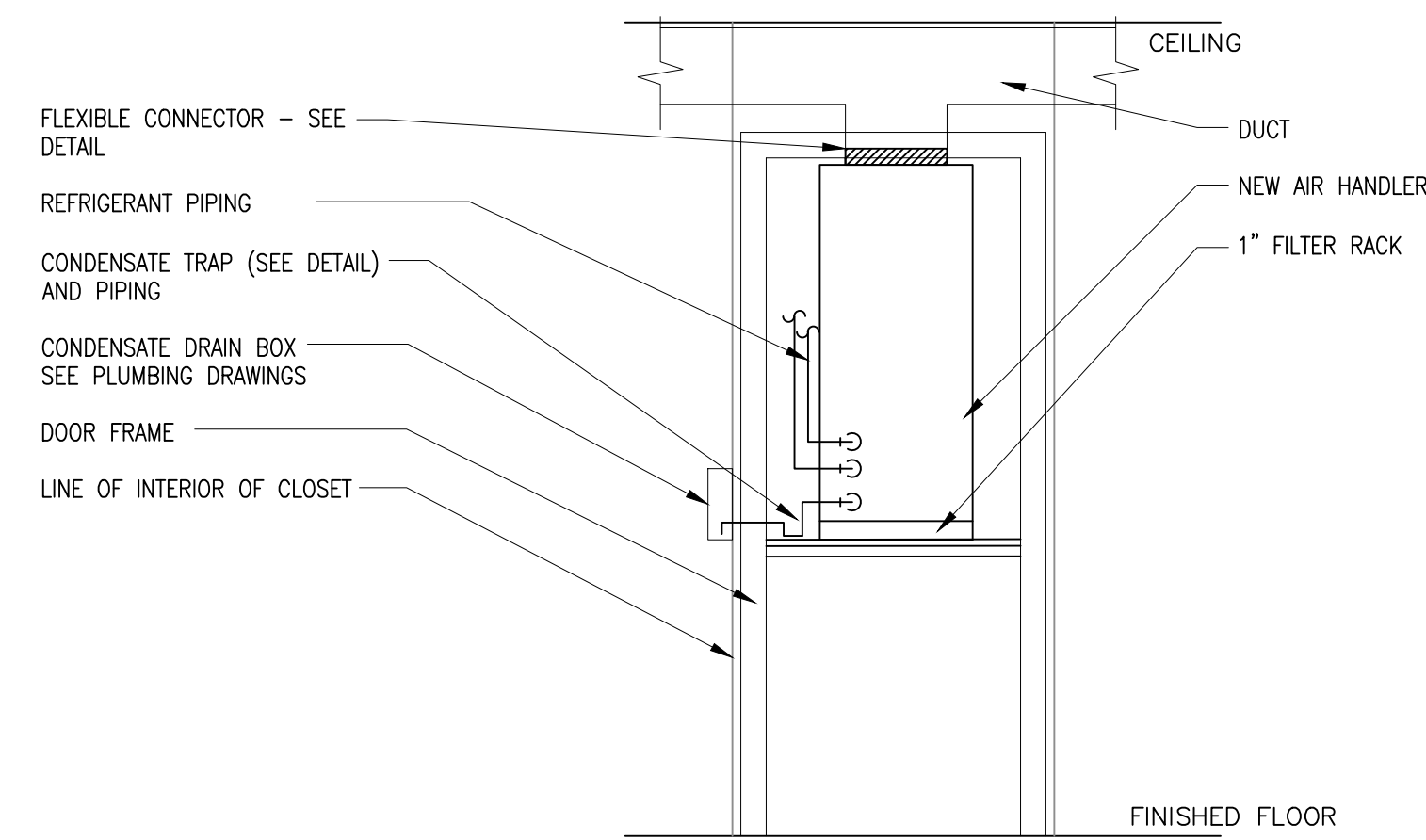
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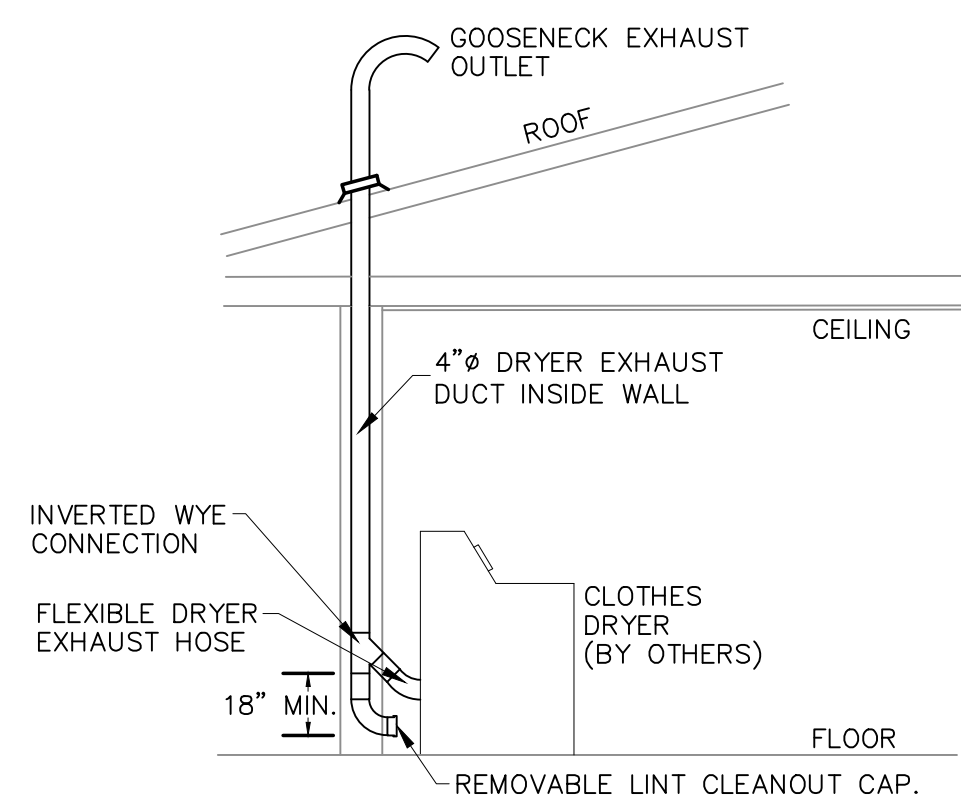
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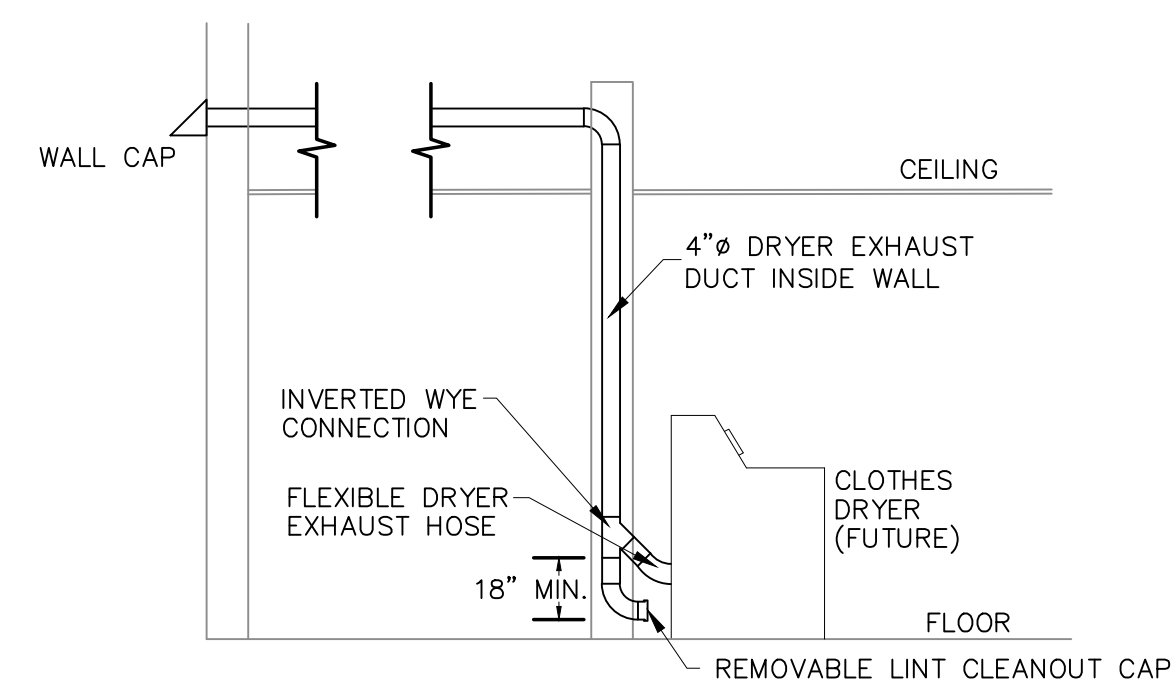
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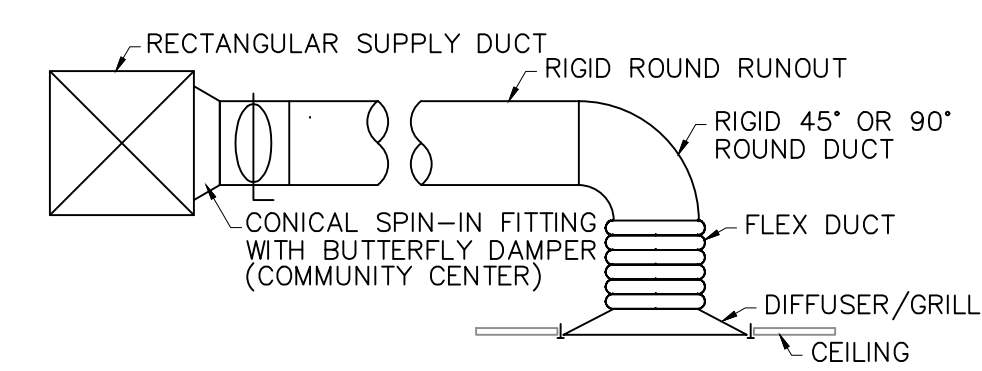
10 TYPICAL MECHANICAL CLOSET DETAIL
 M02 NO SCALE



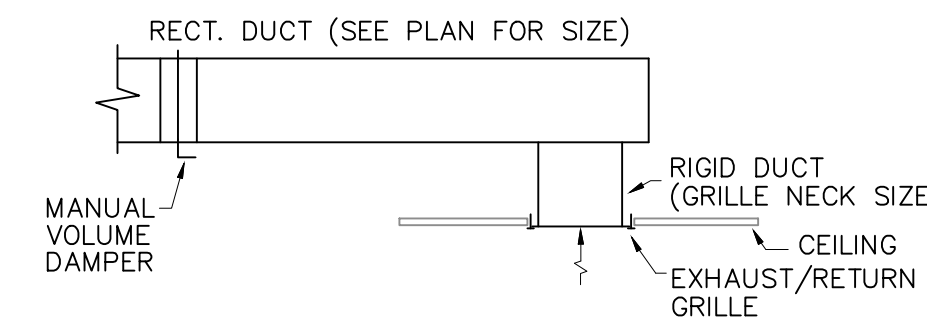
11 CLOTHES DRYER EXHAUST DETAIL
 M02 NO SCALE



12 CLOTHES DRYER EXHAUST DETAIL
 M02 NO SCALE

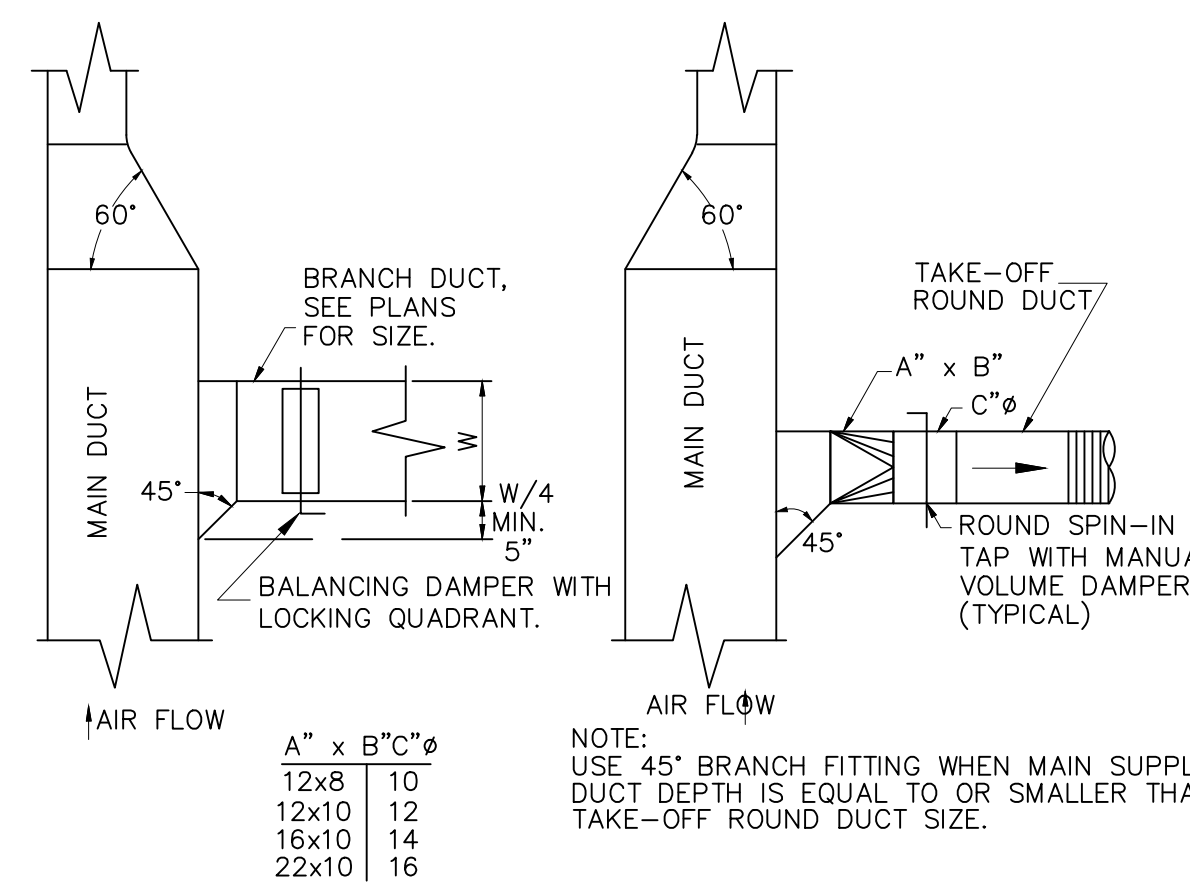


5 TYPICAL DIFFUSER RUN-OUT DETAIL
 M02 NO SCALE

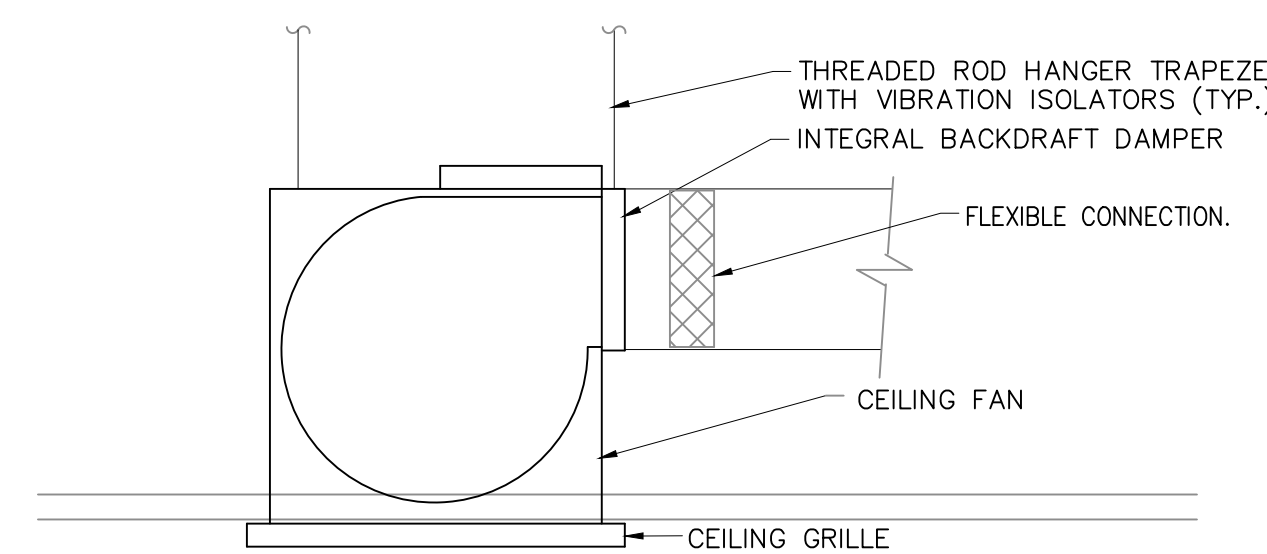


NOTE: TYPICAL FOR RECTANGULAR RUNOUTS

6 TYPICAL RETURN AND EXHAUST RUN-OUT DETAIL
 M02 NO SCALE

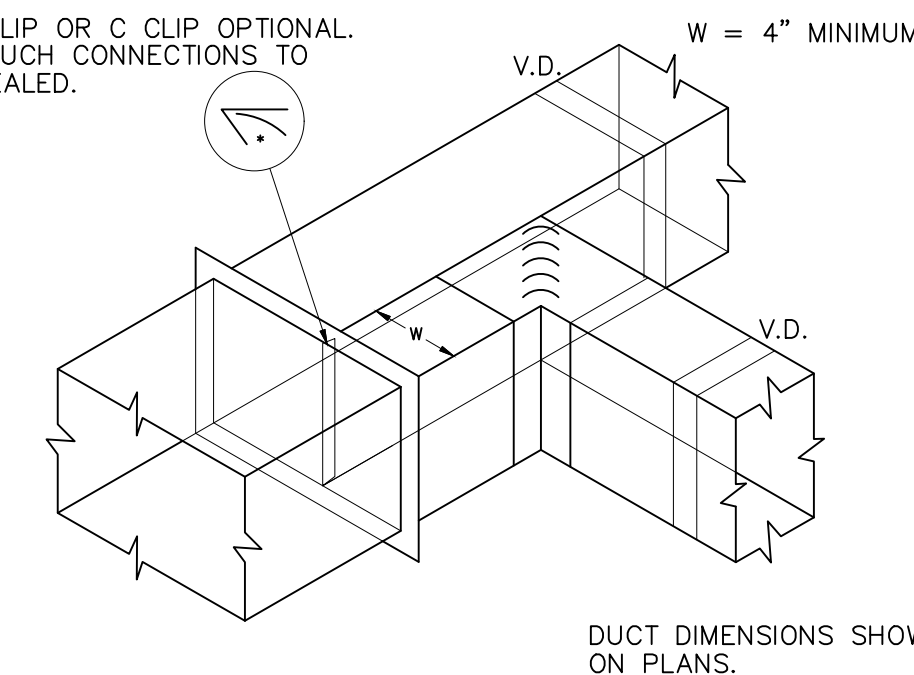


7 TYPICAL DUCT TAKEOFF DETAIL
 M02 NO SCALE

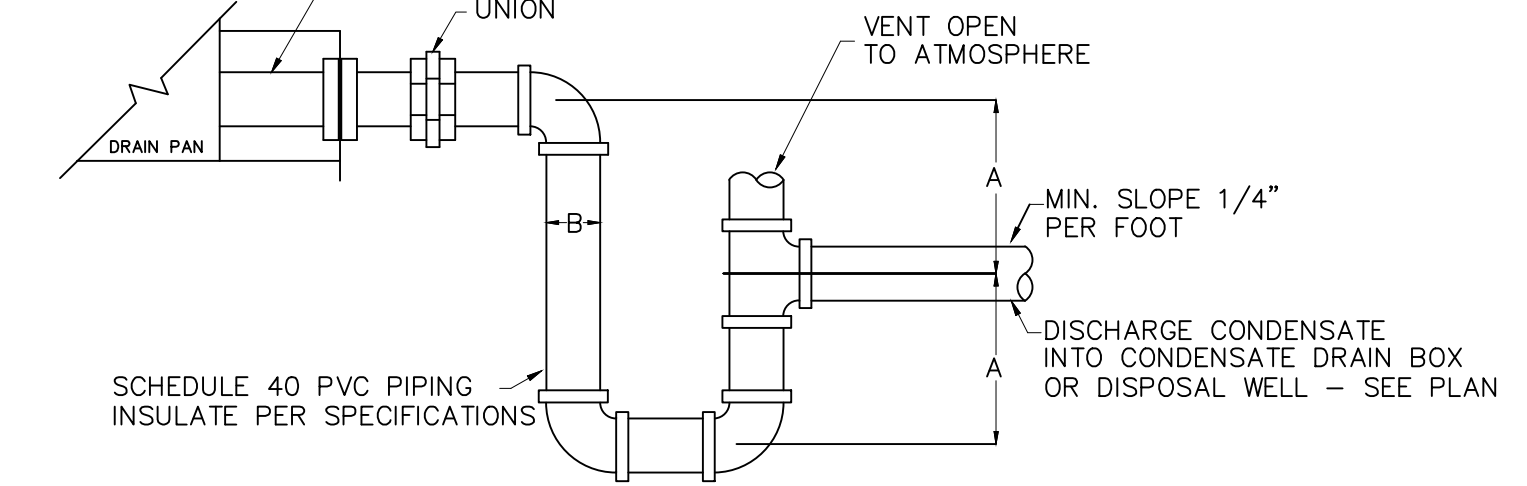


8 TYPICAL CEILING MOUNTED FAN INSTALLATION DETAIL
 M02 NO SCALE

* S CLIP OR C CLIP OPTIONAL. ALL SUCH CONNECTIONS TO BE SEALED.

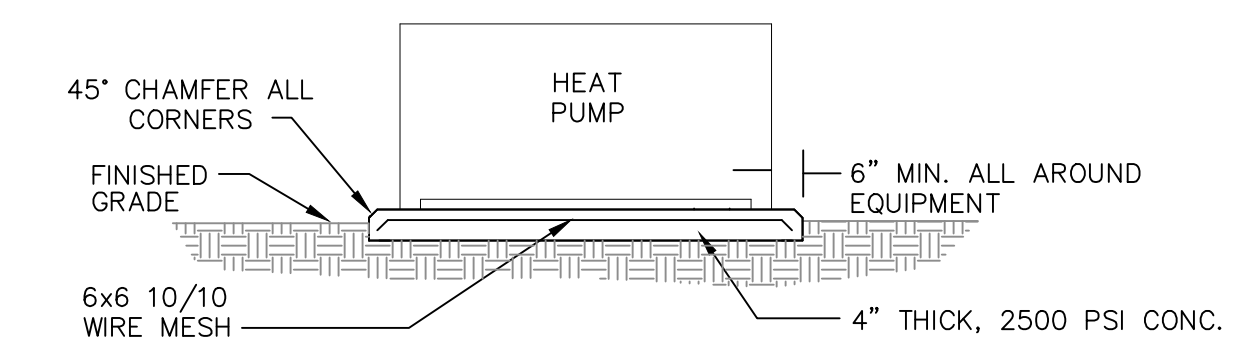


9 TYPICAL DUCT TAKE-OFF DETAIL
 M02 NO SCALE

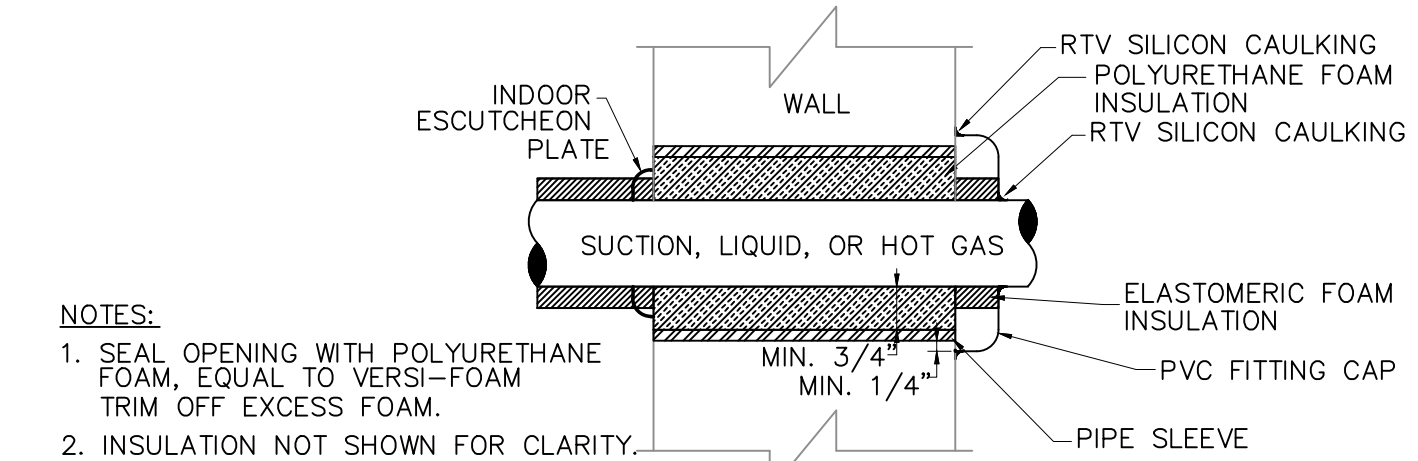


A=B+1/2 FAN STATIC PRESSURE.
 B=3/4" FOR UNITS LESS THAN 2000 C.F.M.

1 AIR CONDITIONING UNIT DRAIN TRAP DETAIL
 M02 NO SCALE



2 TYPICAL CONDENSING UNIT PAD DETAIL
 M02 NO SCALE

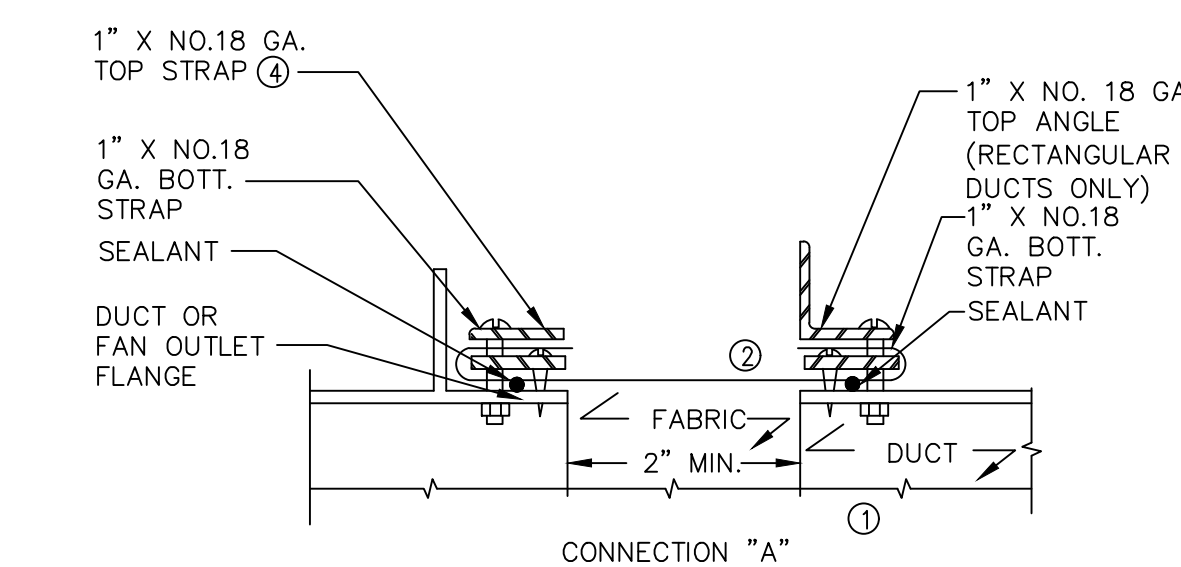


NOTES:

1. SEAL OPENING WITH POLYURETHANE FOAM, EQUAL TO VERSI-FOAM TRIM OFF EXCESS FOAM.
2. INSULATION NOT SHOWN FOR CLARITY.

NOTE: OMIT ELASTOMERIC INSULATION ON LIQUID LINE.

3 TYPICAL REFRIGERANT PIPING WALL PENETRATION DETAIL
 M02 NO SCALE



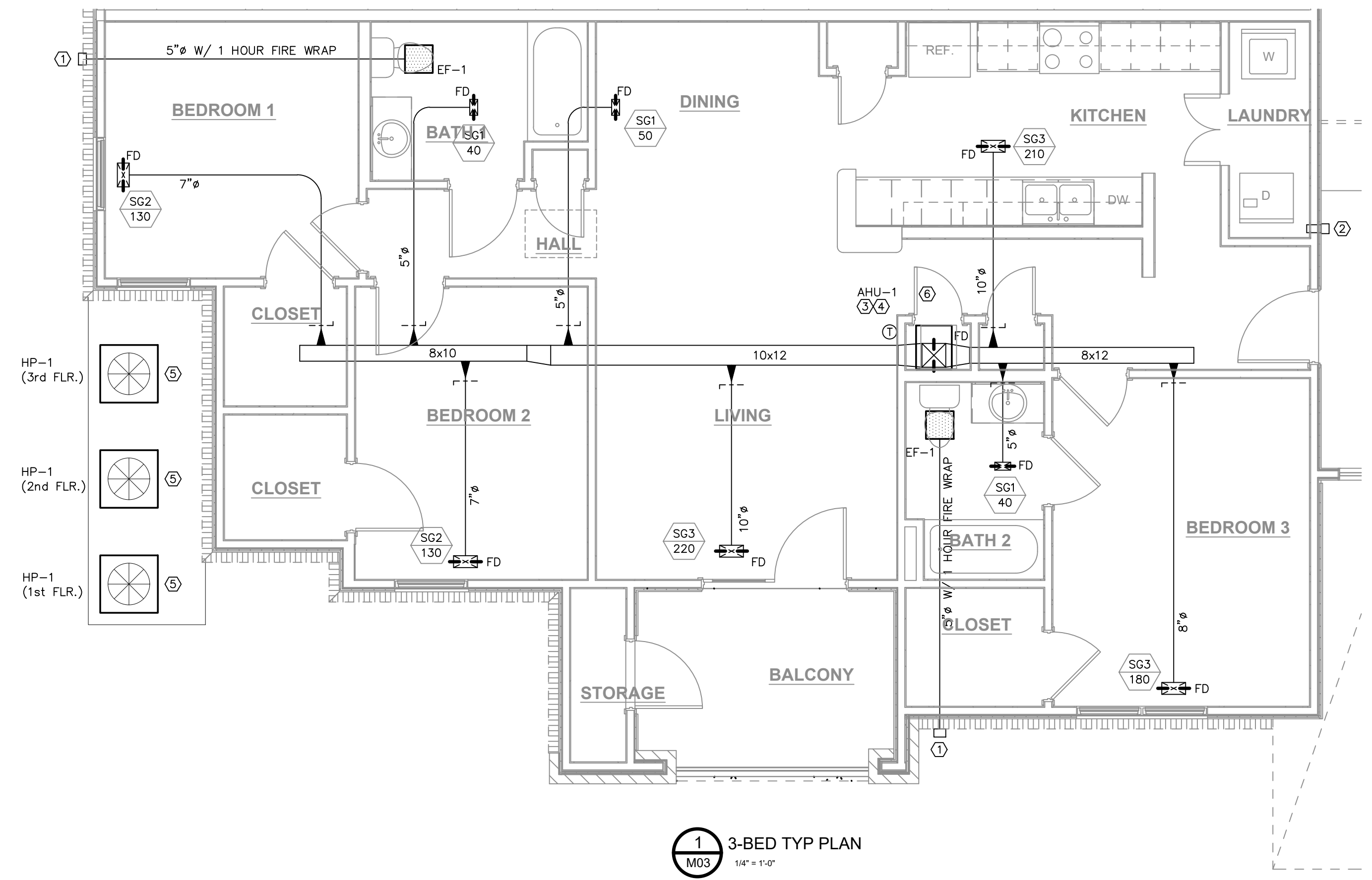
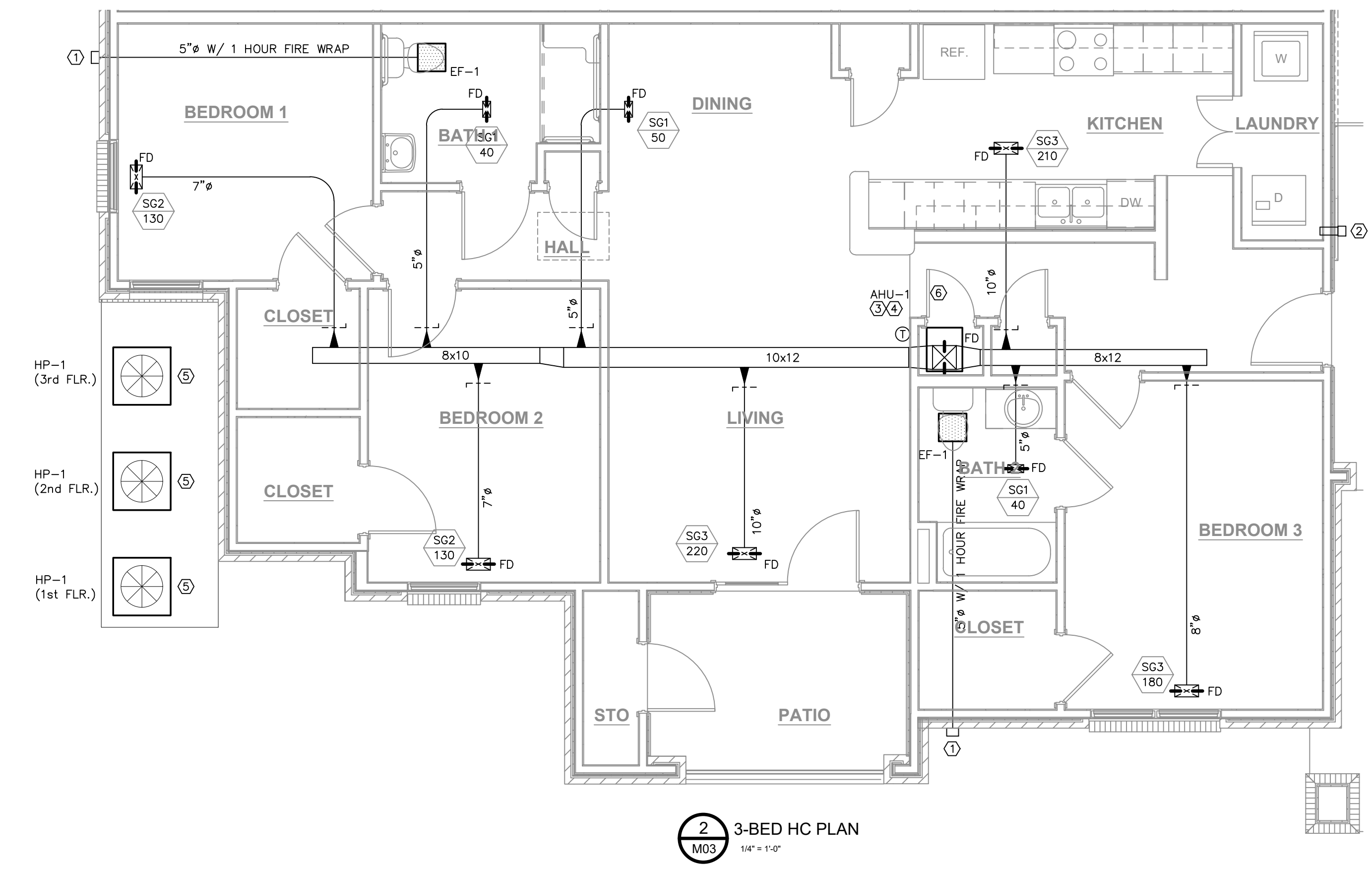
1. USE FLEXIBLE CONNECTION "A" FOR RECTANGULAR DUCTS WITH GREATEST DIMENSION 31" OR LARGER, & FOR ALL ROUND DUCTS. USE CONNECTION "B" FOR RECTANGULAR DUCTS WITH GREATEST DIMENSION LESS THAN 31".
2. FABRIC FOR FLEXIBLE CONNECTIONS SHALL BE VENTGLAS AS MANUFACTURED BY VENTFABRICS, INC. MAKE COLLAR FROM ONE CONTINUOUS PIECE OF FABRIC, SEWED ONE CORNER ONLY.
3. FOR ROUND DUCT ONLY USE 1" x NO. 18 GA. TOP STRAP.
4. USE 1" x 1" x NO. 18 GA. TOP ANGLE AT LOCATIONS OTHER THAN CONNECTIONS TO EQUIPMENT.

4 FLEXIBLE DUCT CONNECTION DETAIL
 M02 NO SCALE



GENERAL NOTE:
 1. AT DUCTWORK WALL AND CEILING PENETRATIONS, SEAL ANNULAR SPACE BETWEEN THE DUCTWORK AND GYPSUM BOARD TO PREVENT AIR LEAKAGE.
 2. SEE ARCHITECTURAL DRAWINGS FOR BUILDING CONFIGURATIONS.
 3. PROVIDE DAMPERS AT SUPPLY GRILLES AND SUPPLY DUCTWORK PENETRATING THE RATED FLOOR/CEILING ASSEMBLY

DRAWING KEYNOTES:
 ① EXHAUST WALL CAP WITH BIRD SCREEN AT BUILDING A - 1st & 2nd FLOOR; BUILDING B - 1st FLOOR; SOFFIT (EAVE) ELBOW WITH GRILLE (AUTONE MODEL 430 OR 431 LESS BACKDRAFT DAMPER) OR EQUAL AT BUILDING A - 3rd FLOOR; BUILDING B - 2nd FLOOR.
 ② 4" DRYER VENT AND ROUTE TO EXTERIOR WALL WITH 4" WALL CAP WITH INTEGRAL BACKDRAFT DAMPER - SEE DETAIL.
 ③ SET AHU ON A SUPPORT PLATFORM (NON-COMBUSTIBLE CONSTRUCTION) - SEE ARCHITECTURAL DRAWINGS.
 ④ ROUTE CONDENSATE DRAIN LINE TO CONDENSATE DRAIN BOX - SEE PLUMBING.
 ⑤ HEAT PUMP UNIT. SET UNIT ON CONCRETE EQUIPMENT PAD. SEE DETAIL. COORDINATE ALL HEAT PUMP UNIT PAD LOCATIONS WITH ARCHITECTURAL UNIT PLANS.
 ⑥ RETURN AIR THROUGH LOUVERED DOOR - SEE ARCHITECTURAL DRAWINGS

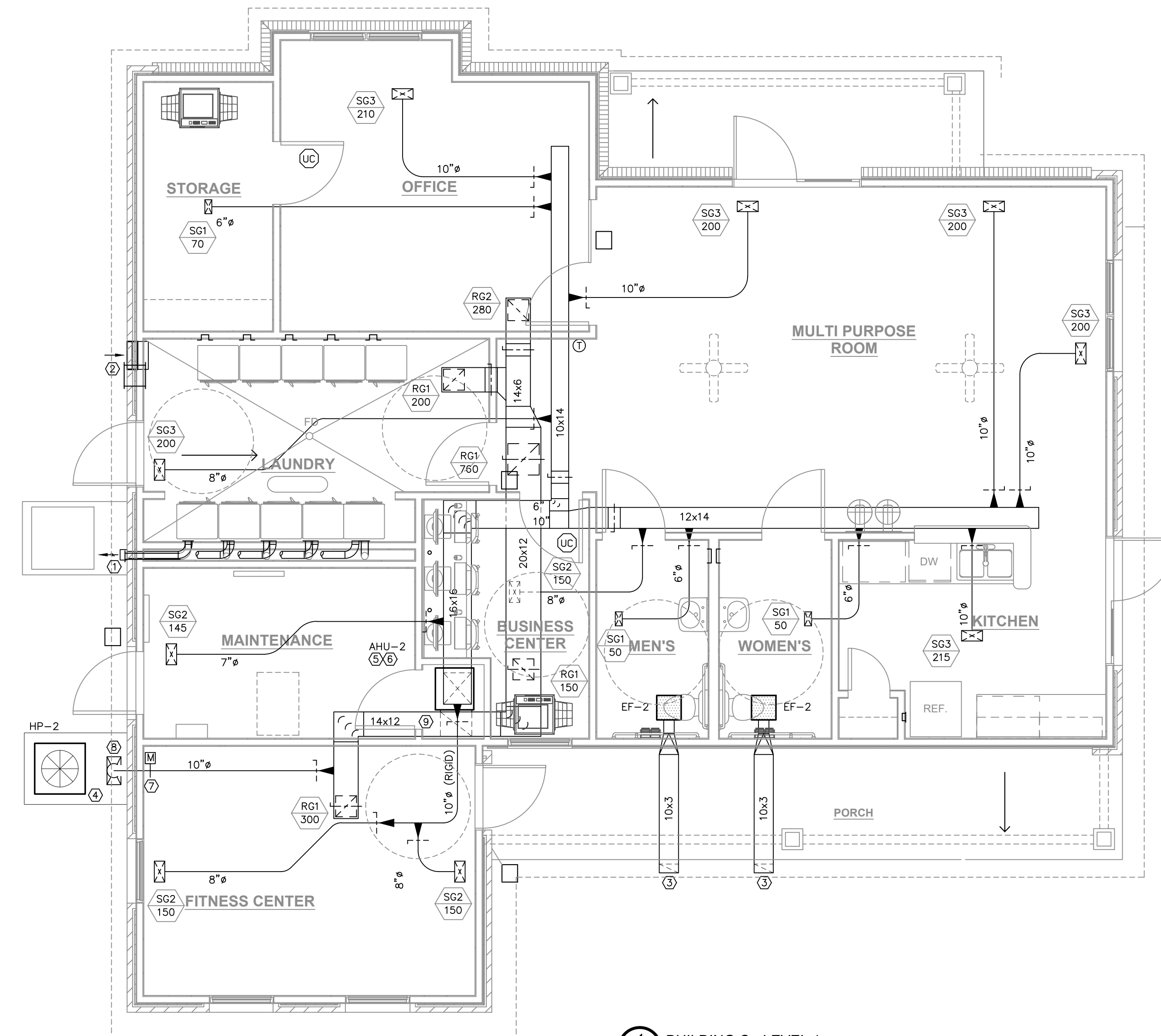


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1 BUILDING C - LEVEL 1
 M04 1/4" = 1'-0"

DRAWING KEYNOTES:

- ① 4" DRYER VENT WITH 4" WALL CAP WITH INTEGRAL BACKDRAFT DAMPER. (5 STACKED)
- ② 16x16 MAKE-UP AIR LOUVER FOR THE DRYER. LOUVER EQUAL TO RUSKIN ELF6375X WITH INSECT SCREEN. MOUNT 8" A.F.F.
- ③ SOFFIT (EAVE) ELBOW WITH GRILLE. NUTONE MODEL 430 OR 431 (LESS BACKDRAFT DAMPER) OR EQUAL.
- ④ HEAT PUMP UNIT. SET UNIT ON CONCRETE EQUIPMENT PAD. SEE DETAIL. COORDINATE ALL HEAT PUMP UNIT PAD LOCATIONS WITH ARCHITECTURAL UNIT PLANS.
- ⑤ SET AHU ON A 18" HIGH RETURN PLENUM (NON-COMBUSTIBLE CONSTRUCTION). PROVIDE 3" AUXILIARY DRAIN PAN W/ MOISTURE SENSOR FOR UNIT SHUT-DOWN.
- ⑥ ROUTE CONDENSATE DRAIN LINE TO CONDENSATE DRAIN BOX - SEE PLUMBING.
- ⑦ OUTSIDE AIR DUCT CONNECT TO AHU'S RETURN DUCT. PROVIDE MANUAL AND MOTORIZED DAMPER. MOTORIZED DAMPER TO OPEN UPON STARTING OF AHU FAN AND CLOSED UPON STOPPING OF AHU FAN.
- ⑧ 12x20 OUTSIDE AIR SOFFIT VENT W/ INSECT SCREEN
- ⑨ CONNECT RETURN DUCT TO PLENUM BELOW THE AHU

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LIGHTING	
	RECESSED OR SURFACE MOUNTED LIGHT FIXTURE - SEE LUMINAIRE SCHEDULE AND RESPECTIVE DETAILS - PROVIDE ALL MOUNTING HARDWARE AS REQUIRED.
	RECESSED OR SURFACE MOUNTED LIGHT FIXTURE CONNECTED TO EMERGENCY POWER SOURCE OR WITH BATTERY BACK-UP - SEE LUMINAIRE SCHEDULE AND RESPECTIVE DETAILS - PROVIDE ALL MOUNTING HARDWARE AS REQUIRED.
	SUSPENDED OR SURFACE MOUNTED LIGHT FIXTURE - SEE LUMINAIRE SCHEDULE AND RESPECTIVE DETAILS - PROVIDE ALL MOUNTING HARDWARE AS REQUIRED.
	SUSPENDED OR SURFACE MOUNTED LIGHT FIXTURE CONNECTED TO EMERGENCY POWER SOURCE OR WITH BATTERY BACK-UP - SEE LUMINAIRE SCHEDULE AND RESPECTIVE DETAILS - PROVIDE ALL MOUNTING HARDWARE AS REQUIRED.
	RECESSED OR SURFACE MOUNTED LIGHT FIXTURE - SEE LUMINAIRE SCHEDULE AND RESPECTIVE DETAILS - PROVIDE ALL MOUNTING HARDWARE AS REQUIRED.
	RECESSED OR SURFACE MOUNTED LIGHT FIXTURE CONNECTED TO EMERGENCY POWER SOURCE OR WITH BATTERY BACK-UP - SEE LUMINAIRE SCHEDULE AND RESPECTIVE DETAILS - PROVIDE ALL MOUNTING HARDWARE AS REQUIRED.
	WALL MOUNTED LIGHT FIXTURE - SEE LUMINAIRE SCHEDULE AND RESPECTIVE DETAILS - PROVIDE ALL MOUNTING HARDWARE AS REQUIRED.
	RECESSED OR SURFACE MOUNTED WALL WASH LIGHT FIXTURE - SEE LUMINAIRE SCHEDULE AND RESPECTIVE DETAILS - PROVIDE ALL MOUNTING HARDWARE AS REQUIRED.
	WALL MOUNTED SINGLE FACE EXIT SIGN WITH DIRECTIONAL CHEVRONS AS INDICATED BY ARROWS - CONNECTED TO EMERGENCY POWER SOURCE OR WITH BATTERY BACK-UP - SEE LUMINAIRE SCHEDULE.
	WALL MOUNTED DOUBLE FACE EXIT SIGN WITH DIRECTIONAL CHEVRONS AS INDICATED BY ARROWS - CONNECTED TO EMERGENCY POWER SOURCE OR WITH BATTERY BACK-UP - SEE LUMINAIRE SCHEDULE.
	CEILING MOUNTED SINGLE FACE EXIT SIGN WITH DIRECTIONAL CHEVRONS AS INDICATED BY ARROWS - CONNECTED TO EMERGENCY POWER SOURCE OR WITH BATTERY BACK-UP - SEE LUMINAIRE SCHEDULE.
	CEILING MOUNTED DOUBLE FACE EXIT SIGN WITH DIRECTIONAL CHEVRONS AS INDICATED BY ARROWS - CONNECTED TO EMERGENCY POWER SOURCE OR WITH BATTERY BACK-UP - SEE LUMINAIRE SCHEDULE.
	WALL MOUNTED 2 HEAD EMERGENCY LIGHT - CONNECTED TO EMERGENCY POWER SOURCE OR WITH BATTERY BACK-UP - SEE LUMINAIRE SCHEDULE.
	SITE LIGHTING FIXTURE (2 HEAD SHOWN) - 1, 2, 3, OR 4 HEAD AS SHOWN ON PLANS. PROVIDE POLE BASE AS SHOWN IN DETAILS OR AS RECOMMENDED BY THE MANUFACTURER.
	CEILING FAN - SEE LUMINAIRE SCHEDULE - PROVIDE APPROPRIATE OUTLET BOX (SOLB MINIMUM) FOR REQUIRED MOUNTING.

SWITCHES	
S	SWITCH OUTLET - A.C. TYPE, SINGLE POLE, 20A, 125/277V.
S3	SWITCH OUTLET - A.C. TYPE, THREE-WAY, 20A, 125/277V.
S4	SWITCH OUTLET - A.C. TYPE, FOUR-WAY, 20A, 125/277V.
S ^o	SWITCH OUTLET - A.C. TYPE, SINGLE POLE, 20A, 125/277V. CONTROLS LIGHTING FIXTURE 'o' IN RESPECTIVE ROOM.
SD	DIMMER SWITCH OUTLET - A.C. TYPE, SINGLE POLE, 20A, 125/277V. PRESET SLIDE BAR WITH ON-OFF TOGGLE SWITCH - SEE SPECIFICATIONS. COLOR TO BE SELECTED BY THE ARCHITECT.
SP	SWITCH OUTLET WITH PILOT LIGHT - A.C. TYPE, SINGLE POLE, 20A, 125/277V.
R/L S	RAISE-STOP-LOWER SWITCH. SEE PLANS FOR COMPLETE DESCRIPTION.
NOTE: LIGHT SWITCHES ARE TO BE INSTALLED ON STRIKE SIDE OF DOOR UNLESS SPECIFICALLY NOTED OTHERWISE. VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.	

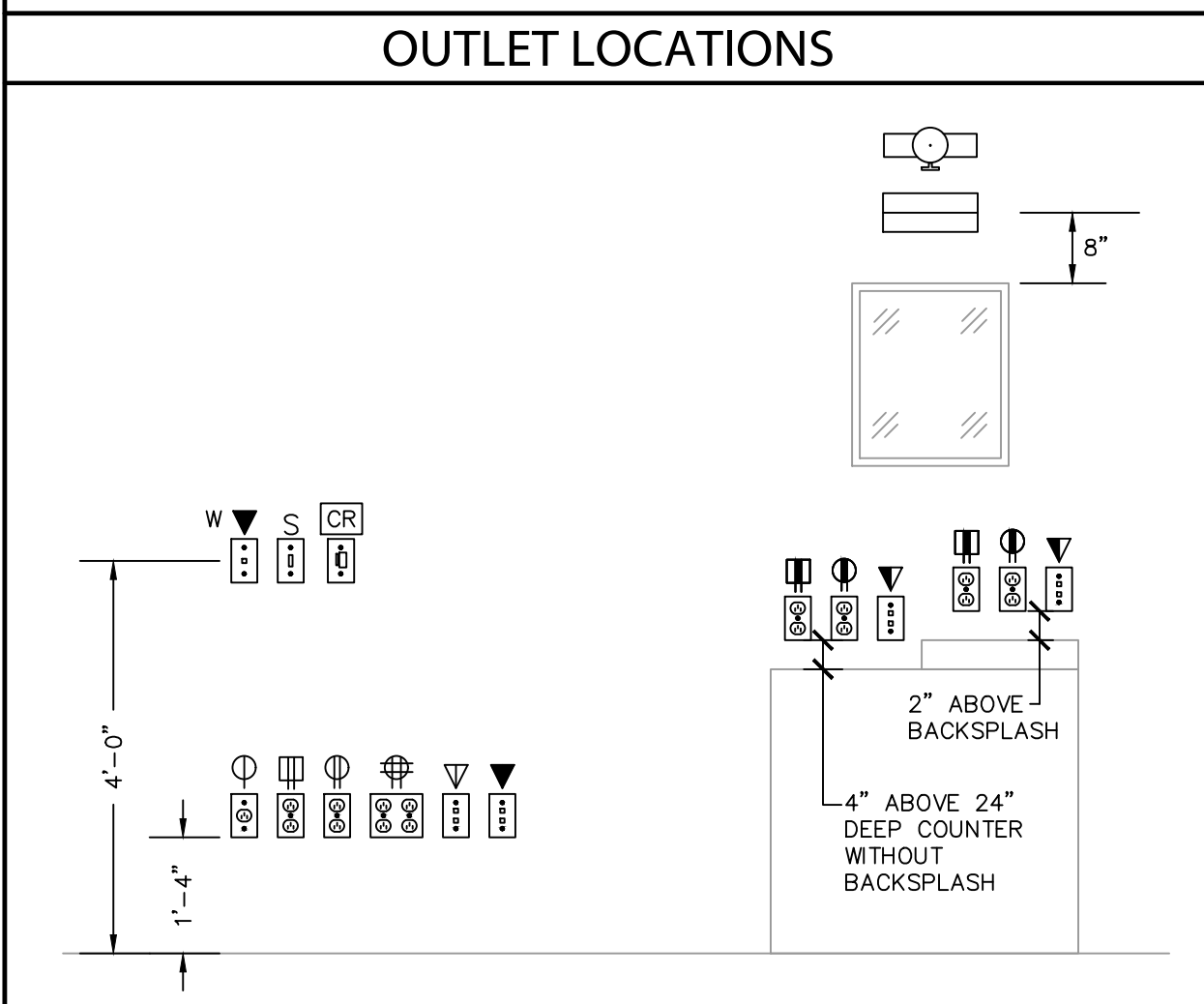
POWER	
	RECEPTACLE PANEL - SURFACE MOUNTED - SEE PLANS FOR DESIGNATION AND SCHEDULE. SEE SPECIFICATIONS FOR CHARACTERISTICS.
	RECEPTACLE PANEL - FLUSH MOUNTED - SEE PLANS FOR DESIGNATION AND SCHEDULE. SEE SPECIFICATIONS FOR CHARACTERISTICS.
	DISTRIBUTION OR POWER PANEL - SURFACE MOUNTED - SEE PLANS FOR DESIGNATION AND SCHEDULE. SEE SPECIFICATIONS FOR CHARACTERISTICS.
	FUSED DISCONNECT SWITCH (SIZE AS SHOWN ON PLANS) - 600V OR 240V - HEAVY DUTY TYPE - FUSED AS SHOWN OR AS RECOMMENDED BY THE MANUFACTURER. SEE SPECIFICATIONS. FURNISH AND INSTALL NAMEPLATES PER DETAILS.
	NON-FUSED DISCONNECT SWITCH (SIZE AS SHOWN ON PLANS) - 600V OR 240V - HEAVY DUTY TYPE. SEE SPECIFICATIONS. FURNISH AND INSTALL NAMEPLATES PER DETAILS.
	ENCLOSED CIRCUIT BREAKER (SIZE AS SHOWN ON PLANS) - SURFACE MOUNTED - SEE SPECIFICATIONS FOR CHARACTERISTICS. FURNISH AND INSTALL NAMEPLATES PER DETAILS.
	HORSE POWER RATED SWITCH WITH THERMAL OVERLOAD UNITS. FURNISH AND INSTALL NAMEPLATES PER DETAILS.

RECEPTACLES	
	WALL OUTLET - DUPLEX RECEPTACLE, 15A, 125V., 3 WIRE (GROUNDING TYPE), SEE SPECIFICATIONS.
	WALL OUTLET - MOUNTED ABOVE COUNTER - DUPLEX RECEPTACLE, 15A, 125V., 3 WIRE (GROUNDING TYPE), SEE SPECIFICATIONS.
	WALL OUTLET - DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER, 15A, 125V., 3 WIRE (GROUNDING TYPE), SEE SPECIFICATIONS.
	WALL OUTLET - WEATHERPROOF DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER, 15A, 125V., 3 WIRE (GROUNDING TYPE), SEE SPECIFICATIONS.
	WALL OUTLET - MOUNTED ABOVE COUNTER - DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER, 15A, 125V., 3 WIRE (GROUNDING TYPE), SEE SPECIFICATIONS.
	WALL OUTLET - SINGLE RECEPTACLE, 15A, 125V., 3 WIRE (GROUNDING TYPE), SEE SPECIFICATIONS.
	WALL OUTLET - SPECIAL PURPOSE RECEPTACLE. SEE PLANS FOR DESCRIPTION, LOCATION, AND CHARACTERISTICS.
	WALL OUTLET - SINGLE RECEPTACLE, 50A, 250V., 3 OR 4 WIRE (GROUNDING TYPE) NEMA 14-50R. MATCH CORD SET SUPPLIED WITH EQUIPMENT.
	WALL OUTLET - SPLIT WIRED DUPLEX RECEPTACLE, 15A, 125V., 3 WIRE (GROUNDING TYPE), BOTTOM RECEPTACLE IS SWITCHED. SEE SPECIFICATIONS.
	WALL OUTLET - JUNCTION BOX, SEE DRAWINGS FOR LOCATION.
	CEILING OUTLET - JUNCTION BOX WITH FLEX CONNECTION TO EQUIPMENT. SEE DRAWINGS FOR LOCATION.
	CEILING OUTLET - JUNCTION BOX, SEE DRAWINGS FOR LOCATION.
	○ RISER - UP (SEE PLANS FOR LOCATION).
	● RISER - DOWN (SEE PLANS FOR LOCATION).

AUXILIARY	
	VOICE/DATA ROUGH-IN - DOUBLE GANG OUTLET BOX WITH SINGLE GANG MUD PLATE - SEE DETAILS.
	VOICE/DATA ROUGH-IN - MOUNTED ABOVE COUNTER - DOUBLE GANG OUTLET BOX WITH SINGLE GANG MUD PLATE - SEE DETAILS.
	WALL TELEPHONE ROUGH-IN - SINGLE GANG OUTLET BOX WITH SINGLE GANG MUD PLATE - SEE DETAILS.
	WALL TELEPHONE ROUGH-IN - MOUNTED AT 48" A.F.F. - SINGLE GANG OUTLET BOX WITH SINGLE GANG MUD PLATE - SEE DETAILS.
	CABLE TV ROUGH-IN - SINGLE GANG OUTLET BOX WITH SINGLE GANG MUD PLATE - SEE DETAILS.
	CABLE TV ROUGH-IN - MOUNTED ABOVE COUNTER - SINGLE GANG OUTLET BOX WITH SINGLE GANG MUD PLATE - SEE DETAILS.
	120 VOLT STAND ALONE COMBINATION CO AND SMOKE DETECTOR WITH 9 VOLT BATTERY BACK-UP. BRK MODEL #9120B OR PRE-APPROVED EQUAL.
	120 VOLT STAND ALONE SMOKE DETECTOR WITH 177 CANDELLA STROBE AND 9 VOLT BATTERY BACK-UP. BRK MODEL #7010BSL OR PRE-APPROVED EQUAL. STROBE DEVICE SHALL BE INTERLOCKED AS REQUIRED WITH DETECTOR.
	120 VOLT STAND ALONE CARBON MONOXIDE DETECTOR WITH 9 VOLT BATTERY BACK-UP. BRK MODEL #C05120BN OR PRE-APPROVED EQUAL.
	WALL MOUNTED T-STAT ROUGH-IN - COORDINATE LOCATION, MOUNTING HEIGHT, AND ORIENTATION WITH THE MECHANICAL CONTRACTOR.
	DOOR BELL COMBINATION LIGHT/CHIME. HOUSING DEVICE, INC. #ADA 120. SEE ADA/DOOR/PHONE ALERT DETAIL.
	DOOR BELL PUSHBUTTON: EDWARDS #147-1 WITH STAINLESS STEEL COVERPLATE. SEE ADA/DOOR/PHONE ALERT DETAIL.
	DOOR BELL DEACTIVATION DEVICE. COORDINATE WITH SUPPLIER.
	4'-0" WIDE x 8'-0" HIGH x 3/4" THICK PLYWOOD BACKBOARD. WALL MOUNTED 6" AFF TO BOTTOM. MOUNT BACKBOARD WITH LABEL LEGIBLE FROM ROOM SIDE. PLYWOOD SHALL COVER ALL SIDES OF ROOM AS SHOWN ON PLANS.

ABBREVIATIONS			
JR	NEMA JR ENCLOSURE	EX	EXISTING TO REMAIN
RT	RAINTIGHT ENCLOSURE	XR	EXISTING DEVICE TO BE REMOVED
WP	WEATHERPROOF	XRR	EXISTING DEVICE TO BE RELOCATED
UON	UNLESS OTHERWISE NOTED	XRL	EXISTING DEVICE RELOCATED
EM	EMERGENCY	XRP	EXISTING DEVICE TO BE REPLACED
NL	NIGHT LIGHT	EP	EXPLOSION PROOF
AFF	ABOVE FINISHED FLOOR	R.G.S.	RIGID GALVANIZED STEEL
AFG	ABOVE FINISHED GRADE		
WG	WIRE GUARD		
NIC	NOT IN CONTRACT		

BRANCH CIRCUITS	
	BRANCH CIRCUIT - ROUTED ABOVE CEILING OR IN WALL (SEE SPECIFICATIONS)
	BRANCH CIRCUIT - ROUTED IN FLOOR (SEE SPECIFICATIONS)
	HOMERUN TO PANELBOARD - ANY CIRCUIT WITHOUT FURTHER DESIGNATION IS 2 NO. 12, 1#12 GRN, 3/4" C.
	4 NO. 12, 1#12 GRN, 3/4" C.
	6 NO. 12, 1#12 GRN, 3/4" C. AS PER N.E.C.
	BRANCH CIRCUIT - EXPOSED (SEE SPECIFICATIONS).
	EQUIPMENT HOMERUN - ANY CIRCUIT WITHOUT FURTHER DESIGNATION IS 2#12, 1#12 GRN, 3/4" C.
	3#12, 1#12 GRN, 3/4" C. AS PER N.E.C.
	EMPTY CONDUIT WITH NYLON PULL STRING
	FEEDER - OVERHEAD
	FEEDER - UNDERGROUND
BRANCH CIRCUIT WIRING FOR LIGHTING AND POWER IS SHOWN SCHEMATICALLY. EACH ELECTRICAL DEVICE IS TO BE INSTALLED WITH AN INDIVIDUAL CONDUIT CONNECTION. FOR EXAMPLE:	
	REQUIRED INSTALLATION
	REQUIRED INSTALLATION
NOTE: MINIMUM CONDUIT SIZE SHALL BE 3/4" C.	



OUTLET LOCATION NOTES:

- ALL DIMENSIONS ARE TO BOTTOM OF BOX
- WHERE OUTLETS ARE SHOWN TO BE MOUNTED ABOVE COUNTER (AC), THE E.C. SHALL REFERENCE THE ARCHITECTURAL AND/OR CASEWORK DRAWINGS AND ROUGH-IN EACH DEVICE 6" ABOVE THE COUNTER SURFACE TO THE BOTTOM OF THE BOX.
- SYMBOLS ON DRAWINGS AND MOUNTING HEIGHTS AS INDICATED ARE APPROXIMATE ONLY. THE EXACT LOCATIONS AND MOUNTING HEIGHTS MUST BE DETERMINED ON THE JOB AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH ALL TRADES TO SECURE CORRECT INSTALLATION; I.E. OVER COUNTERS, IN OR ABOVE BACK SPLASHES, IN STOP WALLS, AND OTHER SPECIFIC CONSTRUCTION FEATURES. MOUNT ALL RECEPTACLES VERTICAL WITH GROUND SLOT FACING UP.

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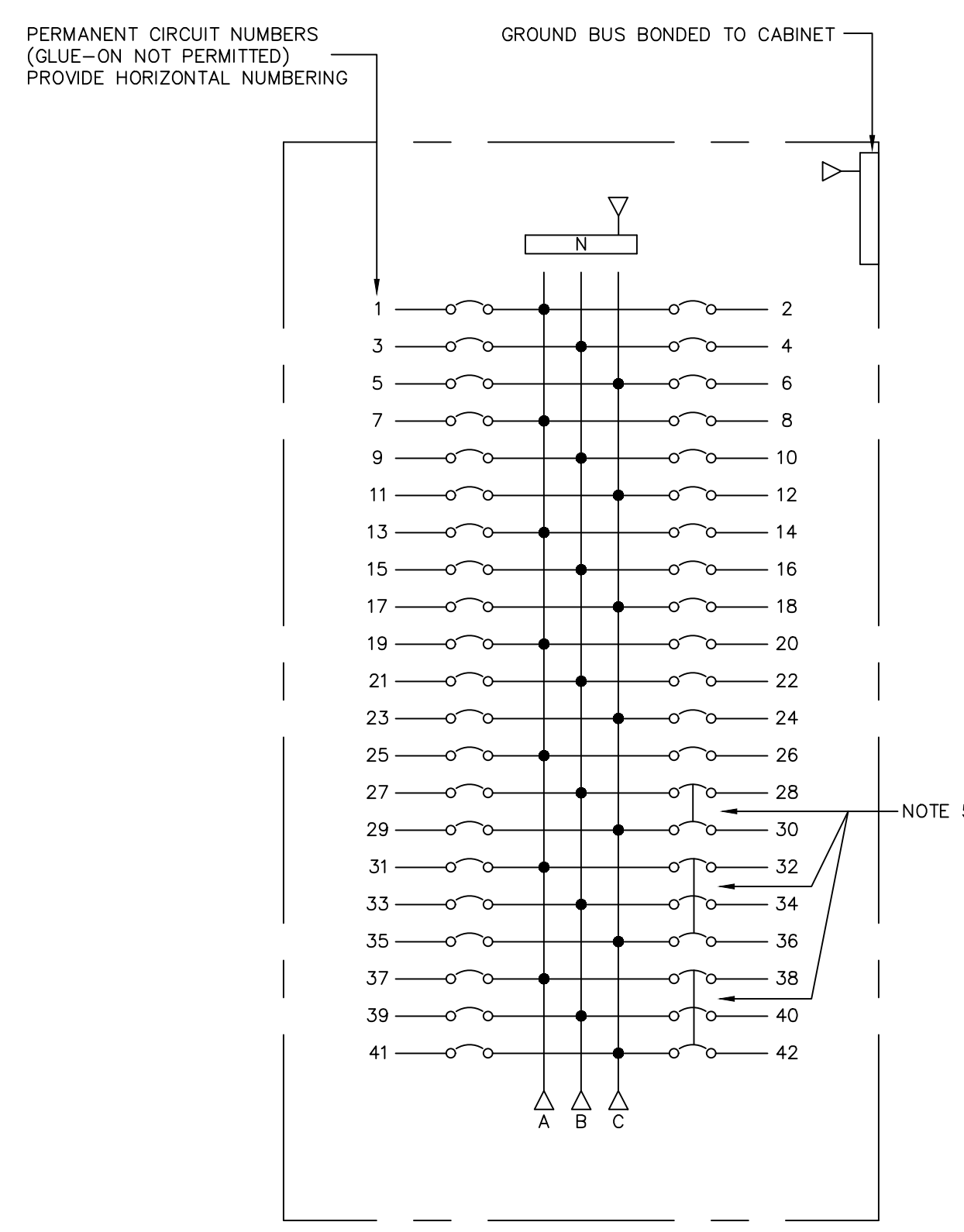
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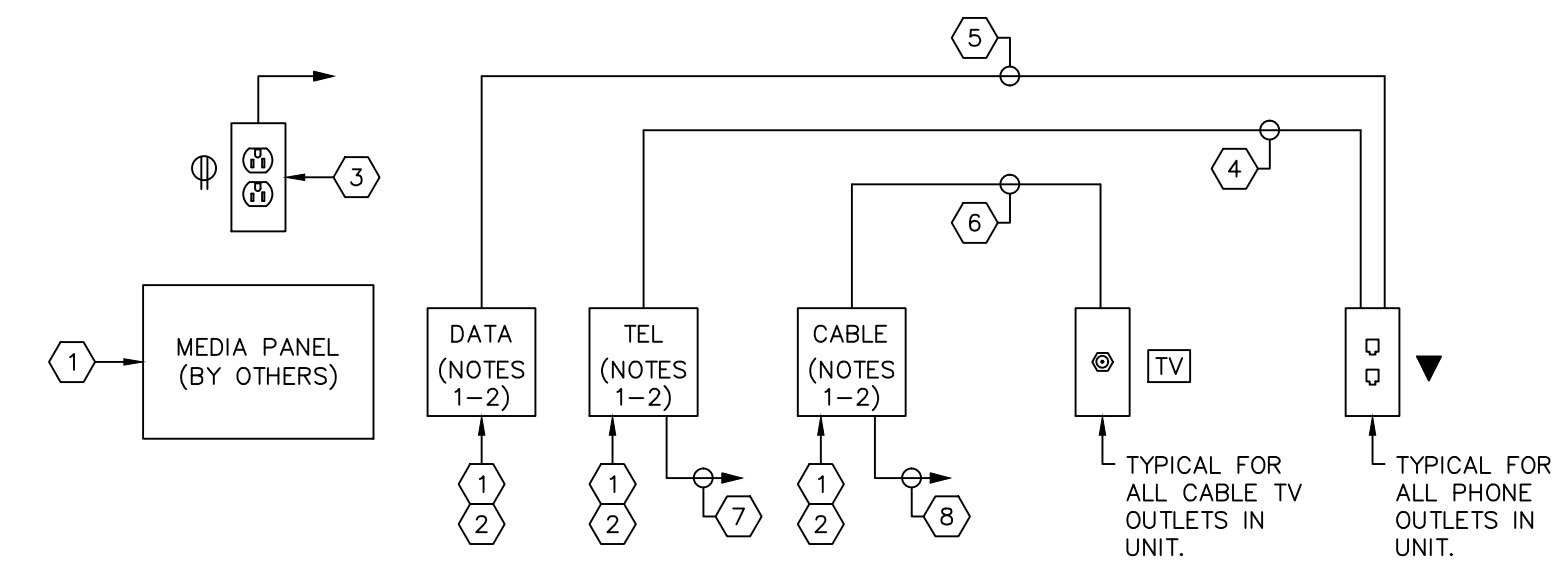
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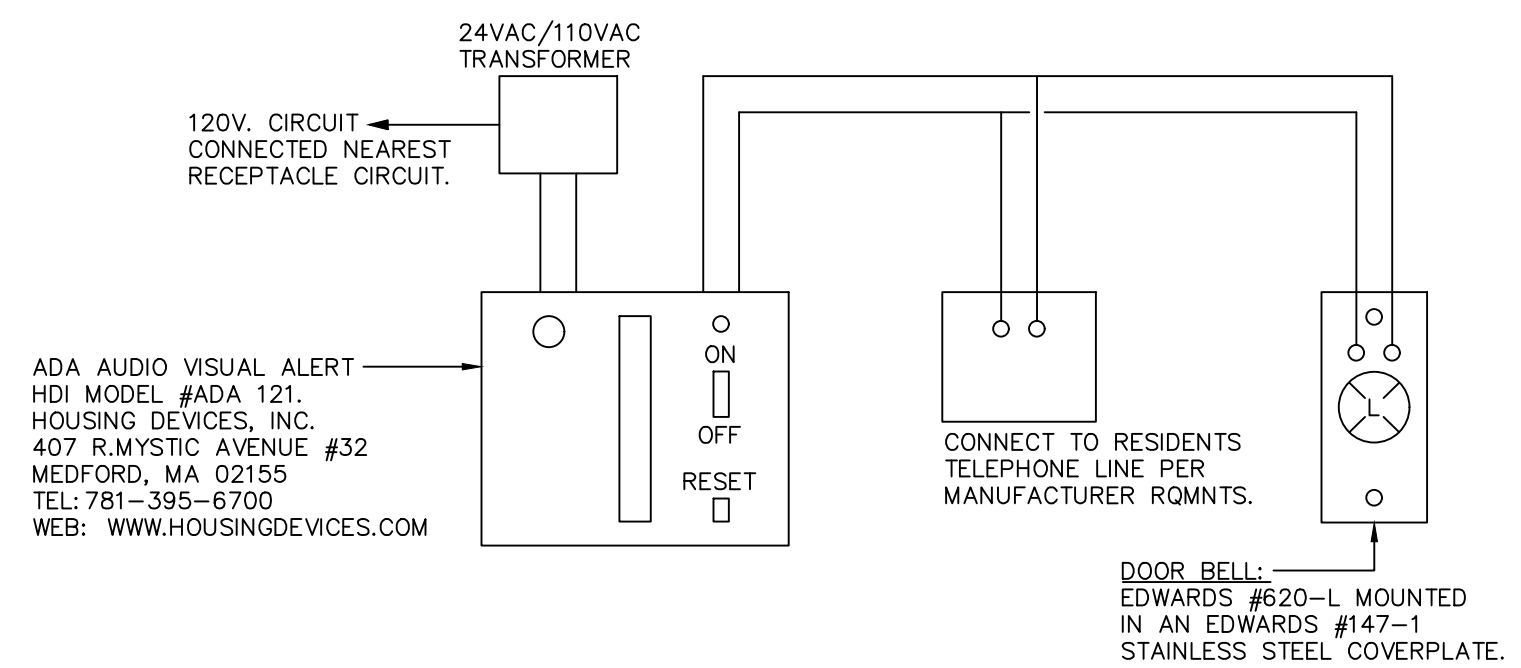
DETAIL: PANELBOARD
 TYPICAL CONNECTION AND NUMBERING SEQUENCE - NO SCALE

- PANEL NOTES:**
- ALL PANELS TO HAVE DOOR-IN-DOOR (HINGED TRIM) CONSTRUCTION.
 - FOR SURFACE MOUNTED PANELS INSTALL ALL NAMEPLATES (PER DETAILS) USING MACHINE SCREWS. FOR FLUSH PANELS IN FINISHED SPACES, INSTALL NAMEPLATES TO INSIDE OF DOOR USING 2 PART EPOXY (12HR)
 - FOR ALL FLUSH PANELS, FURNISH AND INSTALL 4EA. 1" EMPTY CONDUITS TO ABOVE NEAREST ACCESSIBLE CLG. LABELS AS SPARES AND PROVIDE REQUIRED FIRESTOP, PULLWIRE, AND CONDUIT END CAP.
 - ALL PANELS TO HAVE WELDED METAL DIRECTORY CARD HOLDERS.
 - ALL MULTI-POLE BREAKER SHALL HAVE A COMMON TRIP MECHANISM FOR SIMULTANEOUS OPERATION.



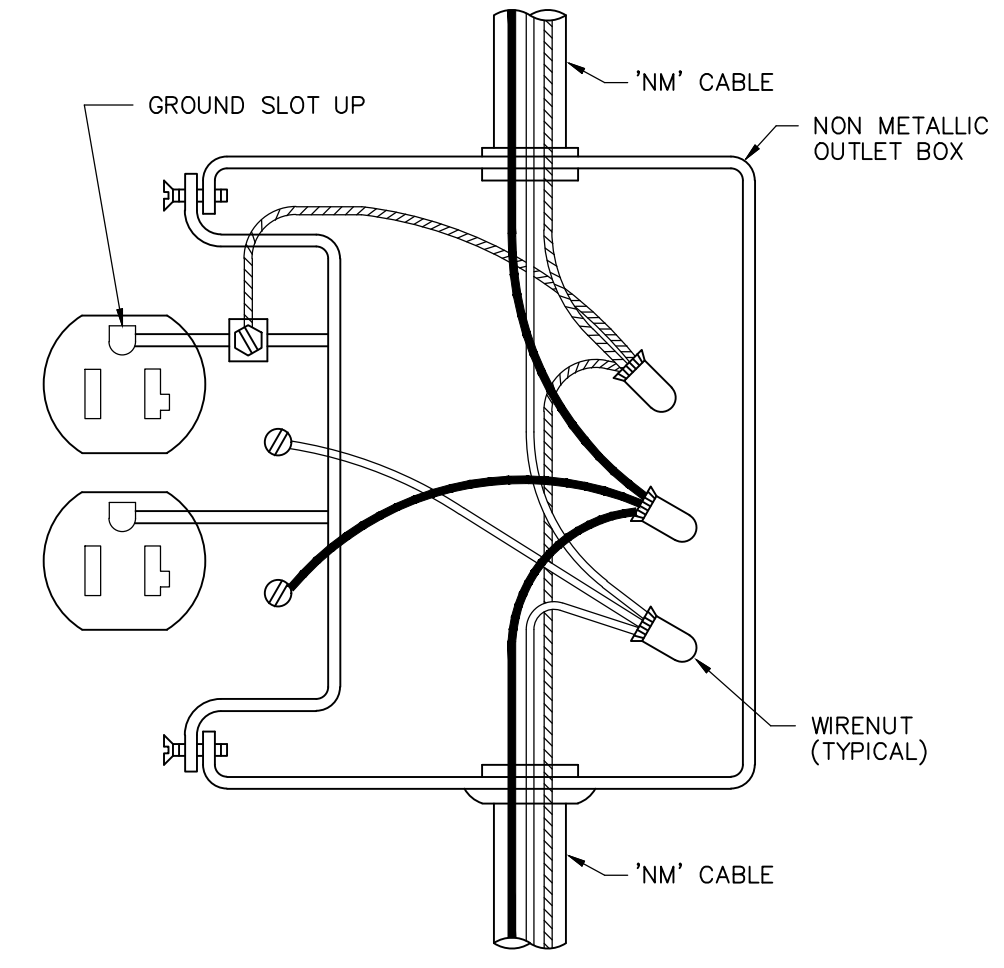
- HOUSE TELEPHONE/DATA AND CABLE TV NOTES:**
- MEDIA PANEL, CABLE/TEL/DATA JUNCTION BOXES TO BE LOCATED IN LAUNDRY ROOM UP HIGH ON WALL. VERIFY EXACT LOCATION WITH THE OWNER/GENERAL CONTRACTOR.
 - DOUBLE GANG OUTLET BOX WITH SINGLE GANG COVERPLATE. COVERPLATES TO BE LABELED AS SHOWN.
 - RECEPTACLE WITH 120 VOLT POWER FOR MEDIA PANEL. VERIFY EXACT LOCATION WITH THE GENERAL CONTRACTOR PRIOR TO ROUGHING. CONNECT TO NEAREST 120 VOLT RECEPTACLE CIRCUIT WITH 2#12-2, 2#12G-MC CABLE.
 - TELEPHONE CABLE FROM TELEPHONE JUNCTION BOX TO TELEPHONE OUTLET(S) IN UNIT. TERMINATE AS REQUIRED AT BOTH ENDS AS DIRECTED BY RESPECTIVE UTILITY. CABLE SHALL BE SUPPORTED AS REQUIRED. TYPICAL FOR ALL PHONE OUTLETS IN UNIT.
 - DATA CABLE FROM DATA JUNCTION BOX TO TELEPHONE OUTLET(S) IN UNIT. TERMINATE AS REQUIRED AT BOTH ENDS AS DIRECTED BY RESPECTIVE UTILITY. CABLE SHALL BE SUPPORTED AS REQUIRED. TYPICAL FOR ALL PHONE OUTLETS IN UNIT.
 - TV CABLE FROM CABLE JUNCTION BOX TO TV OUTLET(S) IN UNIT. TERMINATE AS REQUIRED AT BOTH ENDS AS DIRECTED BY RESPECTIVE UTILITY. CABLE SHALL BE SUPPORTED AS REQUIRED. TYPICAL FOR ALL TV OUTLETS IN UNIT.
 - TELEPHONE CABLE TO SERVICE BOX ON HOUSE. VERIFY EXACT LOCATION WITH RESPECTIVE UTILITY AND TERMINATE AS REQUIRED.
 - TV CABLE TO SERVICE BOX ON HOUSE. VERIFY EXACT LOCATION WITH RESPECTIVE UTILITY AND TERMINATE AS REQUIRED.

HOUSE TELEPHONE/DATA AND CABLE TV SCHEMATIC
 SCALE: NONE

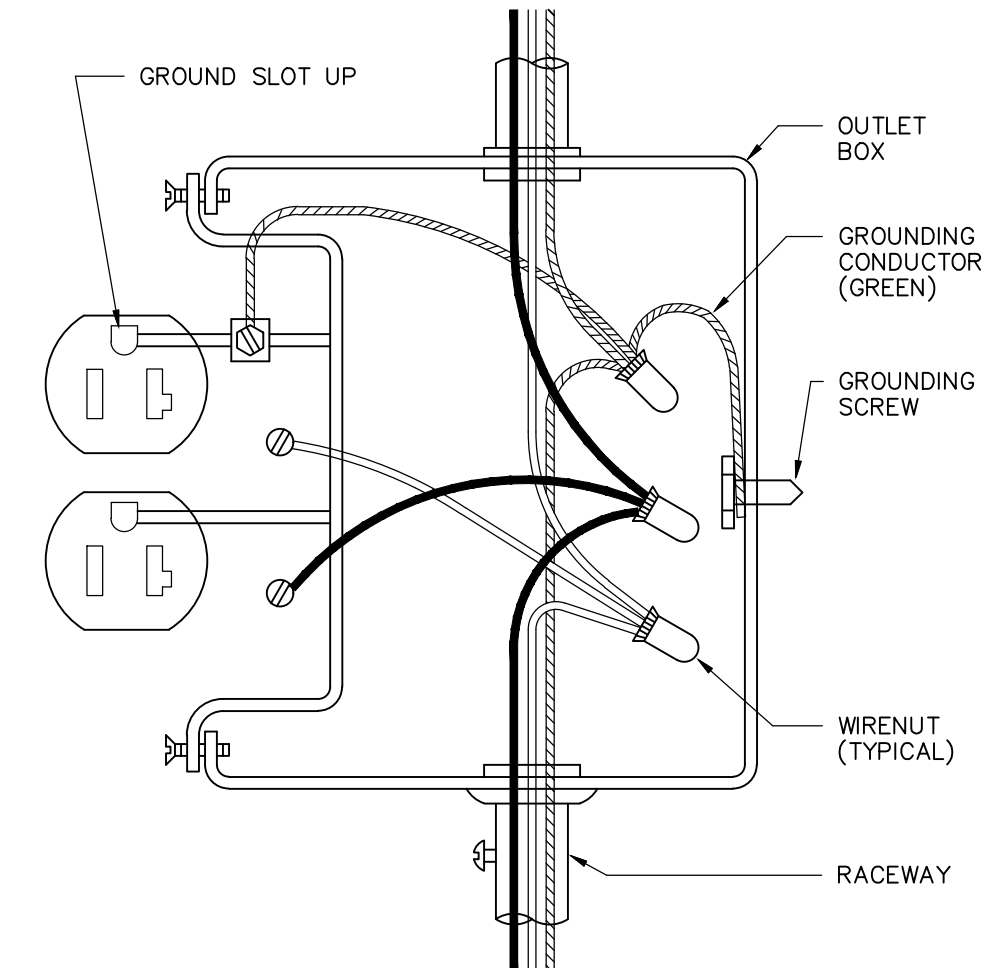


- ADA DOOR/PHONE ALERT SYSTEM NOTES:**
- DIAGRAM SHOWN IS DIAGRAMMATIC ONLY. CONTRACTOR TO OBTAIN EXACT WIRING REQUIREMENTS FROM THE MANUFACTURER PRIOR TO ANY WORK.
 - PROVIDE CONTROLS IN EACH BEDROOM TO DEACTIVATE THE SIGNAL
 - SYSTEM TO BE PROVIDED AT SENSORY IMPAIRED UNITS ONLY. SEE ARCHITECTURAL SITE PLAN FOR LOCATION(S).

ADA DOOR/PHONE ALERT SYSTEM
 SCALE: NONE



'NM' CABLE RECEPTACLE INSTALLATION DETAIL
 NOT TO SCALE



EMT CONDUIT OR 'MC' CABLE RECEPTACLE INSTALLATION DETAIL
 NOT TO SCALE

LIGHTING FIXTURE SCHEDULE - HOUSES

TYPE	DESCRIPTION	MOUNTING		MANUFACTURER	CATALOG NUMBER	LAMPS			BALLAST / DRIVER		TOTAL WATTS
		TYPE	HEIGHT			QTY	TYPE	VOLTS	QTY	TYPE	
A	SURFACE MOUNTED L.E.D. DISK WITH FROSTED LENS. FIXTURE TO BE ENERGY STAR RATED.	SURFACE	CEILING	SUNSET LIGHTING	TF9908-30	1	900 LUMENS	120		N/A	15
B	SURFACE MOUNTED ROUND RESIDENTIAL LUMINAIRE WITH DROP LENS AND 2 LAMPS. PROVIDE ENERGY STAR RATED L.E.D. LAMPS	SURFACE	CEILING	KICHLER	209N	2	15 WATT L.E.D. A-19	120		SELF	40
C	STEM MOUNTED CEILING FAN WITH LIGHT KIT, 3 SPEED, 5 BLADE, 52" WIDE SPAN, WHITE FINISH.	PENDANT	8'-6" AFF TO BOTTOM	EMERSON	FAN: CF12WW	3	20 WATT L.E.D. CANDELABRA	120		SELF	100

LIGHTING FIXTURE SCHEDULE - COMMUNITY BUILDING

TYPE	DESCRIPTION	MOUNTING		MANUFACTURER	CATALOG NUMBER	LAMPS			BALLAST / DRIVER		TOTAL WATTS
		TYPE	HEIGHT			QTY	TYPE	VOLTS	QTY	TYPE	
CF	STEM MOUNTED CEILING FAN, 3 SPEED, 5 BLADE, 52" WIDE SPAN, WHITE FINISH.	PENDANT	8'-6" AFF TO BOTTOM	EMERSON	FAN: CF772	N/A	N/A	120			75
R1	SURFACE MOUNTED L.E.D. DISK WITH FROSTED LENS. FIXTURE TO BE ENERGY STAR RATED.	SURFACE	CEILING	KICHLER PROGRESS	APPROVED EQUAL APPROVED EQUAL TF9908-30	1	900 LUMENS	120		N/A	15
R2	SURFACE MOUNTED L.E.D. DISK WITH FROSTED LENS. FIXTURE TO BE ENERGY STAR RATED.	SURFACE	CEILING	SUNSET LIGHTING	TF9908-30	1	900 LUMENS	120		N/A	15
S1	1x4 SURFACE MOUNTED FLUORESCENT WRAPAROUND WITH PRISMATIC LENS, WHITE END CAPS, AND AN ELECTRONIC BALLAST	SURFACE	CEILING	SIMKAR	SY920-232-SR-B11-120	2	F32T8/REB35	120	1	ELECTRONIC	64
S2	4'-0" FLUORESCENT STRIP FIXTURE WITH WIREGUARD	SURFACE	CEILING	LITHONIA	C232-GEB10-IS-WG	2	F32T8/REB35	120	1	ELECTRONIC	64
W1	2'-0" FLUORESCENT VANITY LIGHT	WALL	SEE ARCHITECT DRAWINGS	NUVO LIGHTING	60-3209	3	13 WATT GU24	120	1	ELECTRONIC	39
W2	WALL MOUNTED LIGHT FIXTURE	WALL	8" ABOVE DOOR TO BOTTOM	LITHONIA	TWS-26TRT-120	1	28 WATT TRT	120	1	ELECTRONIC	28
EX1	L.E.D. EXIT SIGN WITH SELF CONTAINED BATTERY	WALL	8'-0" AFF	MORRIS	73010					FURNISHED WITH UNIT	5
EM1	UNITARY TWIN HEAD EMERGENCY LIGHT WITH INTEGRAL BATTERY	WALL	8'-0" AFF	MORRIS	73424					FURNISHED WITH UNIT	5
EM2	UNITARY TWIN HEAD EMERGENCY LIGHT WITH INTEGRAL BATTERY U.L. LISTED FOR WET LOCATION	WALL	8'-0" AFF	MORRIS	73308					FURNISHED WITH UNIT	5
FL	GRADE MOUNTED HORIZONTAL FLOOD LIGHT	GROUND	STANCHION	RAB LIGHTING	EZLED785F	1	8859 LUMENS	120	1	DRIVER	89

FIXTURE DESIGNATION LEGEND:
 R = RECESSED S = SURFACE P = PENDANT W = WALL CH = CHAIN HUNG
 PL = POLE BL = BOLLARD GR = GROUND CV = COVE

- GENERAL NOTES:**
- MANUFACTURER CATALOG NUMBERS ARE SHOWN FOR GENERAL DESCRIPTIVE PURPOSES AND TO ESTABLISH A STANDARD OF QUALITY. MANUFACTURERS LISTED AS "EQUAL" DOES NOT ENSURE NOR GUARANTEE APPROVAL OF ANY PRODUCT BY THE LISTED MANUFACTURER. FOR APPROVAL, FIXTURES MUST PROVIDE EQUAL PERFORMANCE RELATIVE TO DELIVERY OF LIGHTING, ENERGY USE, AND BE OF SIMILAR DESIGN AND CONSTRUCTION. REQUESTS FOR PRIOR APPROVAL OF FIXTURES NOT LISTED IN THIS SCHEDULE **MUST** BE RECEIVED BY THE ENGINEER A MINIMUM OF 10 DAYS PRIOR TO BID (SEE SPECIFICATIONS) FOR REVIEW BY THE ARCHITECT/ENGINEER. MANUFACTURERS APPROVAL THROUGH THIS PROCESS WILL BE LISTED IN AN ADDENDUM PRIOR TO BID. FIXTURES NOT LISTED IN AN ADDENDUM ARE NOT APPROVED.
 - CONTRACTOR SHALL PROVIDE LUMINAIRES COMPLETE WITH ALL OPTIONS AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. ALL PRODUCTS SHALL BE U.L. LISTED.
 - PROVIDE PROPER LAMP FOR REFLECTOR ASSEMBLY SPECIFIED AND AS RECOMMENDED BY LUMINAIRE MANUFACTURER.
 - PROVIDE FLUORESCENT LAMPS WITH LOW MERCURY CONTENT, COMPLIANT WITH FEDERAL EPA TCLP REQUIREMENTS, AKA "ECO", "ALTO", OR "ECLUX".
 - VERIFY CONSTRUCTION AND TYPE. CEILINGS TO BE INSTALLED AND PROVIDE LUMINAIRES IN APPROPRIATE CONFIGURATION WITH ALL HARDWARE AND ACCESSORIES REQUIRED FOR A COMPLETE AND PROPER INSTALLATION.
 - PROVIDE LUMINAIRES WITH JOINING PLATES, END CAPS, CANOPIES, MOUNTING HARDWARE, ETC., AS REQUIRED FOR COMPLETE INSTALLATION.
 - EXIT LIGHTS SHALL BE PROVIDED WITH GREEN LETTERS REQUIRED BY LOCAL CODE AUTHORITY. FURNISH WITH CHEVRON DIRECTIONAL INDICATORS AS INDICATED AND/OR AS REQUIRED.
 - PROVIDE DEVICES FOR SECURING LAY-IN TYPE LUMINAIRES TO CEILING GRID TO COMPLY WITH ARTICLE 410 OF THE NATIONAL ELECTRICAL CODE.
 - FURNISH LINEAR LUMINAIRES IN CONTINUOUS ROWS OR PATTERNS AS INDICATED ON DRAWINGS. PROVIDE WITH CORNER, ANGLE, AND END PIECES AS REQUIRED FOR A COMPLETE FINISHED INSTALLATION.
 - FURNISH LUMINAIRES IN MECHANICAL SPACES COMPLETE WITH PENDANT STEMS OR CHAIN HANGERS AS REQUIRED TO MOUNT BELOW PIPING, DUCT, CONDUIT, ETC., MAINTAIN MINIMUM 7'-6" UNIFORM MOUNTING HEIGHT FOR ALL LUMINAIRES THROUGHOUT EACH AREA.
 - PENDANT MOUNTED LUMINAIRES WITH AIRCRAFT CABLE SUSPENSION SYSTEMS SHALL BE FURNISHED WITH ADJUSTABLE CABLE GRP HARDWARE. CABLE SIZE SHALL BE SELECTED BY MANUFACTURER TO PROVIDE ADEQUATE SUPPORT OF LUMINAIRE SPECIFIED.

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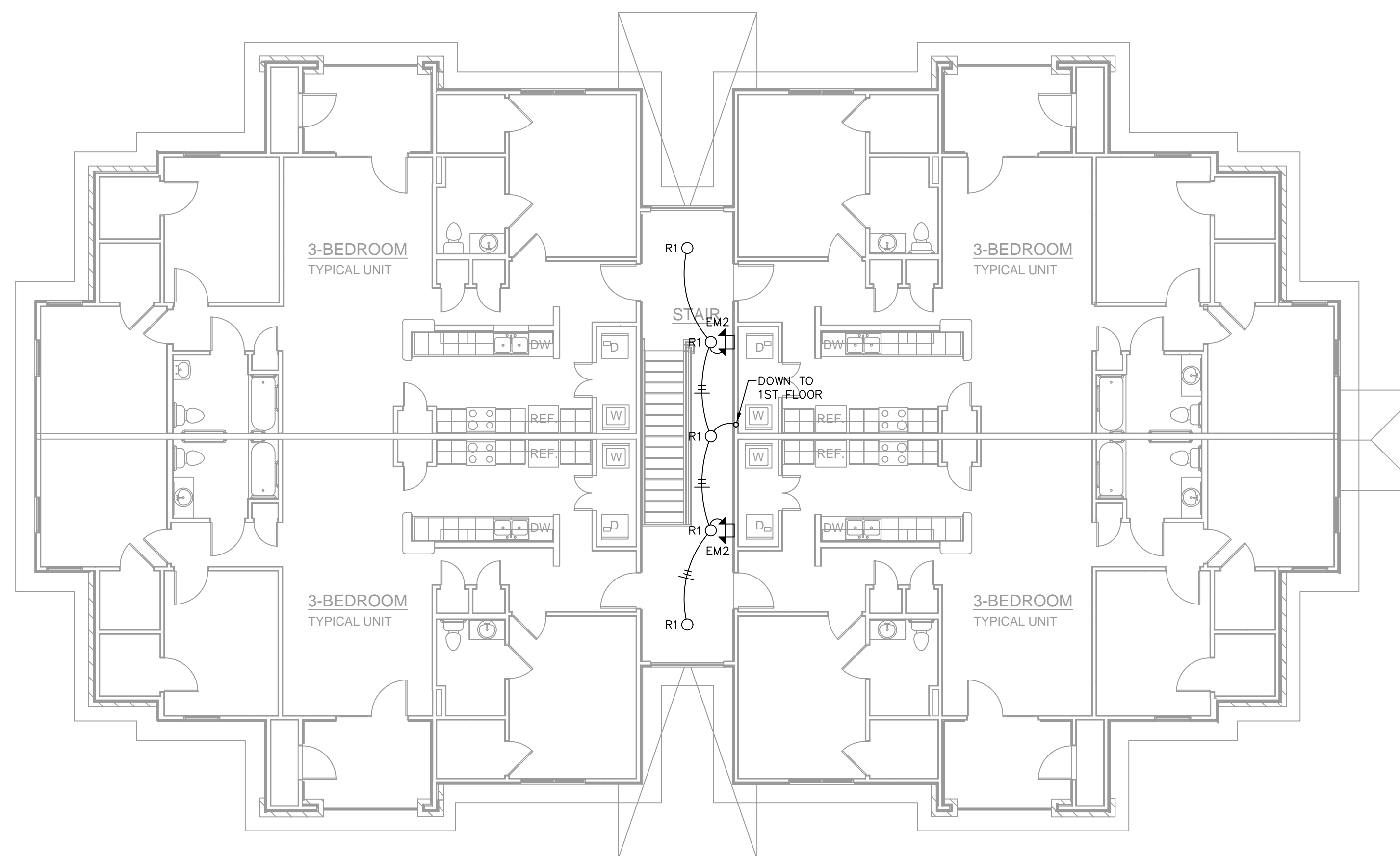
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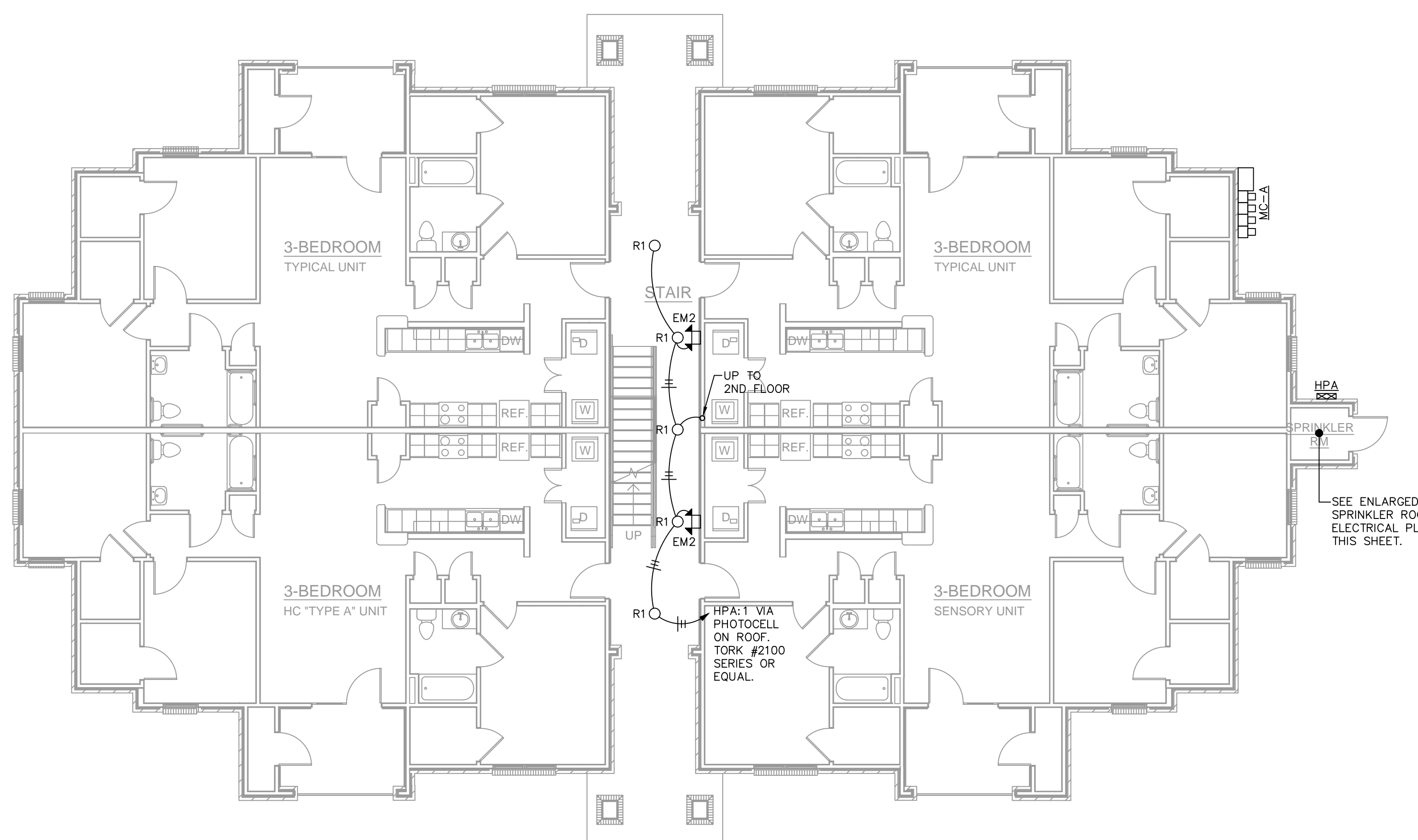
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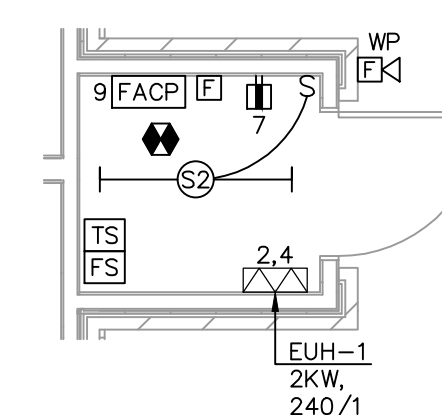
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BUILDING A - LEVEL 2 - ELECTRICAL
 SCALE: 1/8" = 1'-0"



BUILDING A - LEVEL 1 - ELECTRICAL
 SCALE: 1/8" = 1'-0"



ENLARGED SPRINKLER ROOM - ELECTRICAL
 SCALE: 1/4" = 1'-0"

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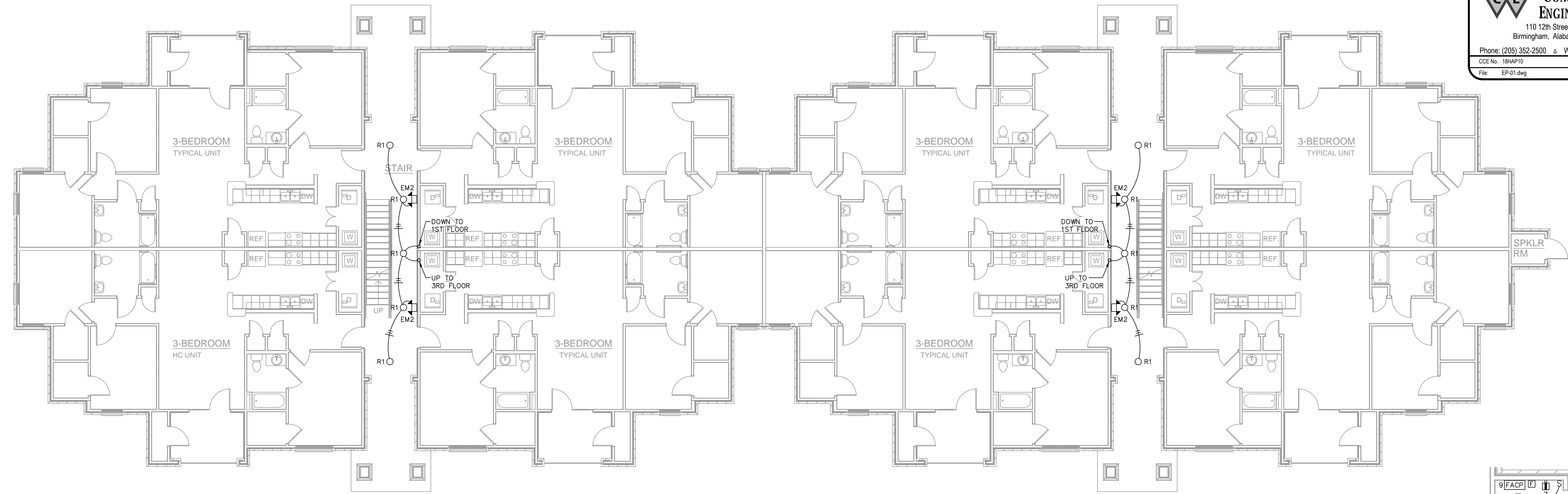
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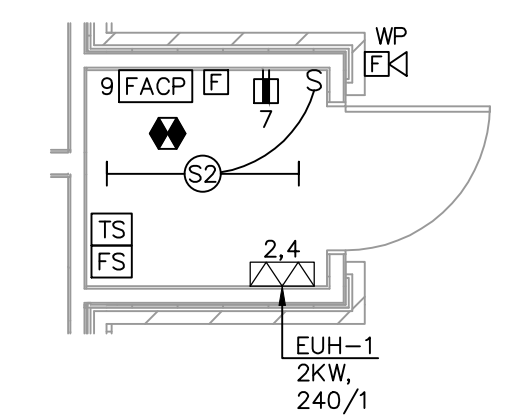
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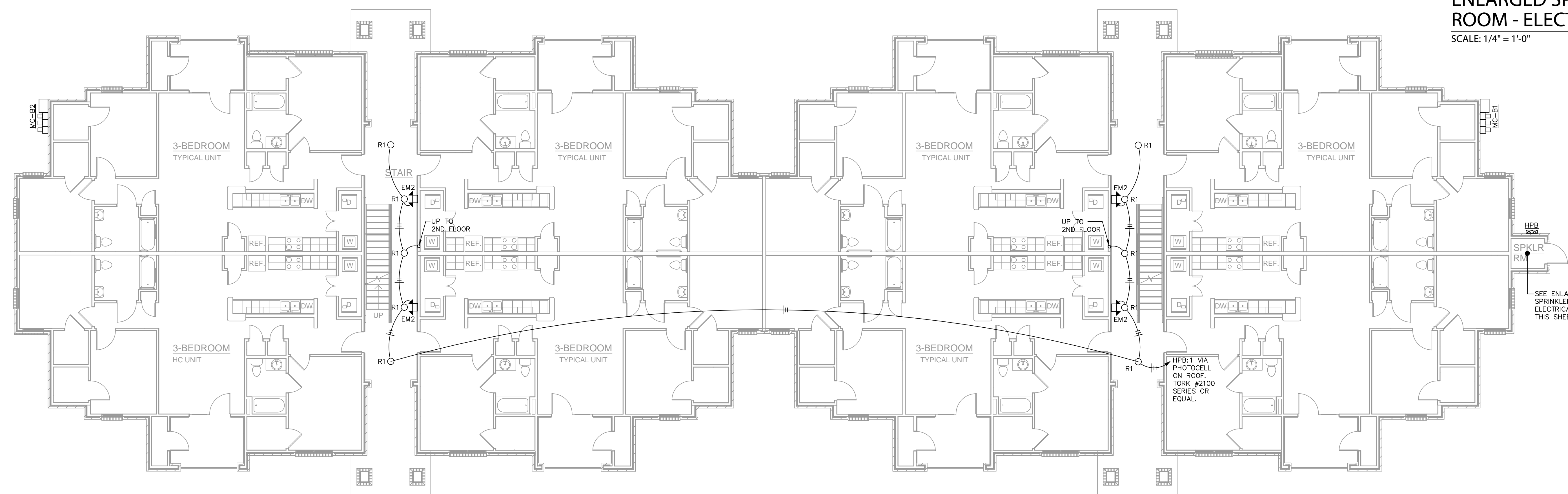
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BUILDING B - LEVEL 2 & 3 - ELECTRICAL
 SCALE: 1/8" = 1'-0"



ENLARGED SPRINKLER ROOM - ELECTRICAL
 SCALE: 1/4" = 1'-0"



BUILDING B - LEVEL 1 - ELECTRICAL
 SCALE: 1/8" = 1'-0"

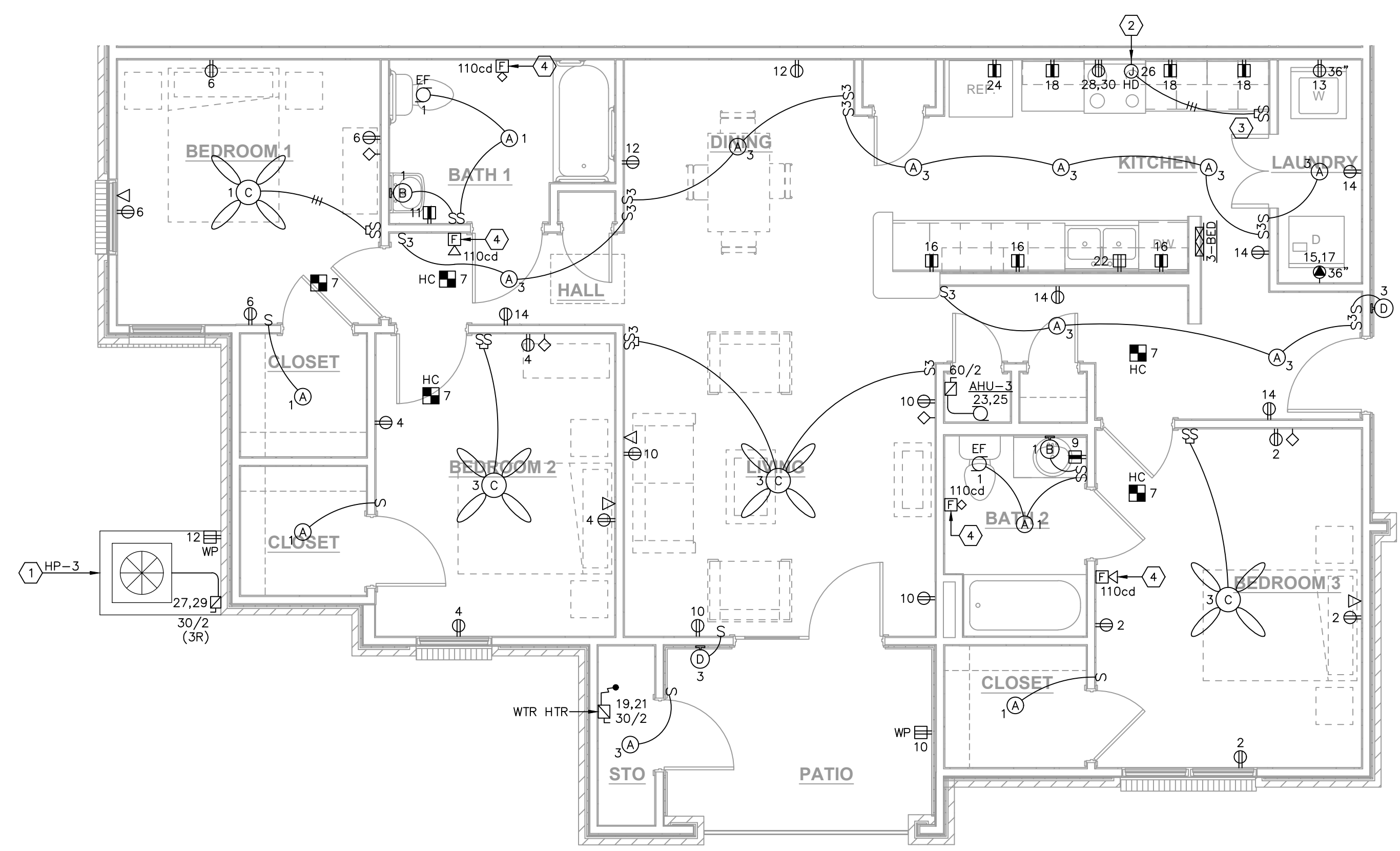
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3 BED HC UNIT PLAN - ELECTRICAL
 SCALE: 1/8" = 1'-0"

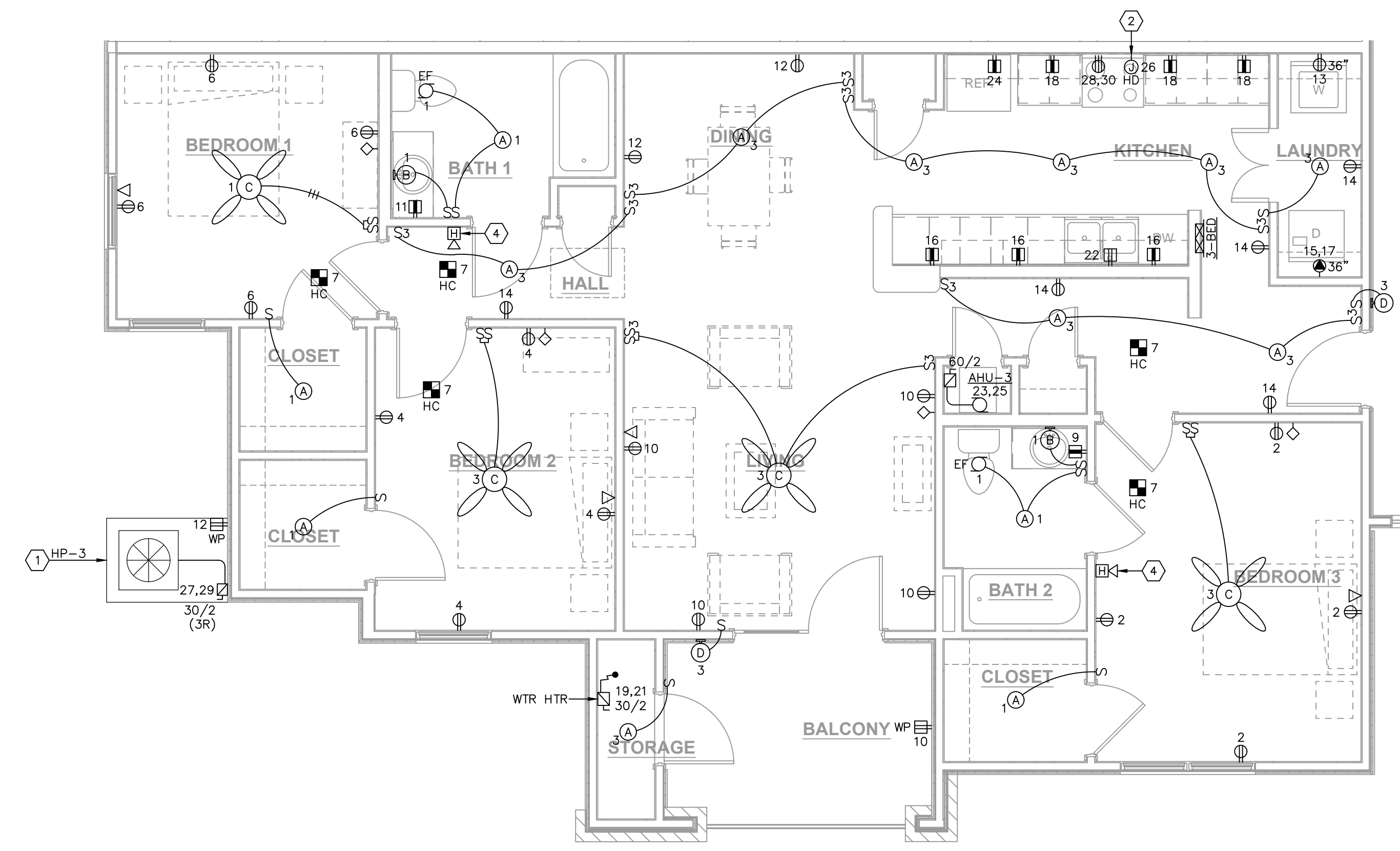
GENERAL NOTES THIS SHEET:

- A. CIRCUITS SERVING ANY RECEPTACLE, LIGHT, SMOKE DETECTOR, OR ANY OTHER 120 VOLT SINGLE PHASE DEVICE SHALL BE SERVED BY AN ARC FAULT BREAKER PER NEC 210.12.
- B. SMOKE DETECTORS LOCATED WITHIN EACH UNIT SHALL BE INTERLOCKED SO THAT ANY DEVICE SENSING SMOKE ACTIVATES ALL SMOKE DETECTORS WITHIN THE UNIT. THE INITIATING SMOKE DETECTOR SHALL BE EQUIPPED WITH A LATCHING ALARM INDICATOR.
- C. ALL GENERAL PURPOSE AND GFI RECEPTACLES LOCATED WITHIN EACH UNIT SHALL BE TAMPER PROOF PER NEC 406.12.
- D. UNLESS NOTED OTHERWISE ALL WIRING SHALL BE 2#12, 1#120-MC CABLE. NM (ROMEX) WIRING MAY BE USED WHERE ALLOWED BY CODE.
- E. NUMBERING SHOWN AT WIRING DEVICES, LIGHT FIXTURES, AND SMOKE DETECTORS ARE BRANCH CIRCUIT NUMBERS FOR RESPECTIVE PANEL WITH-IN UNIT.
- F. ALL CEILING MOUNTED JUNCTION BOXES SHALL BE RATED TO SUPPORT CEILING FANS WITH LIGHT KITS (50LB MINIMUM).
- G. ALL LIGHT FIXTURES LOCATED IN TRAY CEILING AREAS SHALL BE CENTERED. REFER TO ARCHITECTS REFLECTED CEILING PLANS AS REQUIRED.
- H. PROVIDE NEC REQUIRED WORK SPACE CLEARANCE FOR ALL PANELS AND DISCONNECT SWITCHES.

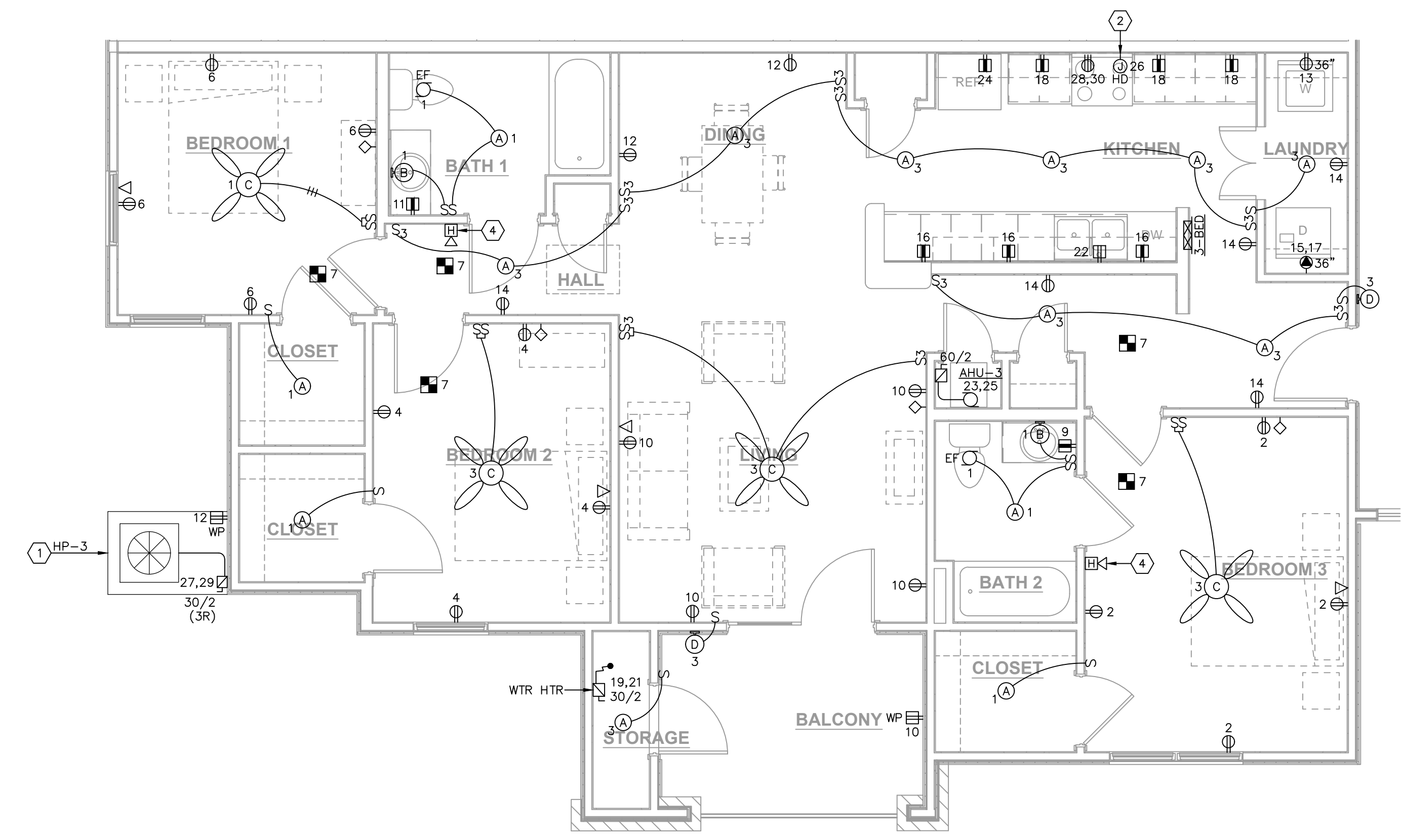
PLAN NOTES THIS SHEET:

- 1. PROVIDE WEATHERPROOF SEAL/TITE FLEXIBLE CONDUIT CONNECTION FROM DISCONNECT SWITCH TO HEAT PUMP. CONDUIT SHALL BE ROUTED ADJACENT TO REFRIGERANT PIPING.
- 2. JUNCTION BOX WITH CONNECTION TO HOOD LIGHT AND FAN. VERIFY EXACT LOCATION PRIOR TO ANY ROUGHING.
- 3. SWITCHES FOR HOOD LIGHT AND FAN. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
- 4. TYPICAL AT BUILDING 'B' ONLY.

PANEL:		PANEL AMPS:		VOLTAGE:		MOUNTING:		FLUSH:					
3-BED		125		120 / 240, 1 PHASE 3 WIRE 60 HZ		NEMA RATING:		NEMA 1					
TYPE:		MAIN TYPE:		AIC RATING:		LOCATION:		METER CENTER					
PQL		100%		<10,000		FED FROM:							
		GROUND BUS:		100%		BREAKER FEATURES:		GFI = GROUND FAULT CIRCUIT INTERRUPTER; ST = SHUNT TRIP; TH = TIE HANDLE; AF = ARC FAULT CIRCUIT INTERRUPTER; LO = LOCK-ON DEVICE					
ONE SECTION PANEL	CKT NO	BREAKER	LOAD TYPE	DESCRIPTION	WIRE SIZE	CKT LOAD	LINE		WIRE SIZE	DESCRIPTION	LOAD TYPE	BREAKER	CKT NO
							L1	L2					
	1	20/1 AF	LTG	BEDROOMS, BATHROOM	#12	500	1220	720	#12	BEDROOM	RCPT	20/1	AF 2
	3	20/1 AF	LTG	LIVING, KITCHEN, HALL	#12	500	1220	720	#12	BEDROOM	RCPT	20/1	AF 4
	5	20/1 AF	SPARE				720	720	#12	BEDROOM	RCPT	20/1	AF 6
	7	15/1 AF	MISC	SMOKE DETECTORS	#12	250		250		SPARE		20/1	AF 8
	9	15/1	MISC	BATHROOM	#12	180	900	720	#12	LIVING	RCPT	20/1	AF 10
	11	15/1	MISC	BATHROOM	#12	180		540	#12	HALL / DINING	RCPT	20/1	AF 12
	13	15/1	LAUN	WASHER	#12	1500	1860	360	#12	KITCHEN	RCPT	20/1	AF 14
	15		LAUN	DRYER	#10	2500		3500	1000	APPLIANCE	KIT	20/1	AF 16
	17		LAUN		#10	2500	3500	1000	#12	APPLIANCE	KIT	20/1	AF 18
	19		WTR HTR		#10	2250		2250		SPARE		15/1	AF 20
	21		WTR HTR	WATER HEATER	#10	2250	3750	1500	#12	DISHWASHER	KIT	15/1	AF 22
	23		HTG	INDOOR HVAC UNIT	#8	3912	4412	500	#12	REFRIGERATOR	KIT	15/1	AF 24
	25		HTG		#8	3912	4412	500	#12	HOOD LIGHT, FAN	KIT	15/1	AF 26
	27		HTG		#10	1680	6930	5250	3#6, 1#10G	RANGE	KIT	50/2	AF 28
	29		HTG	OUTDOOR HVAC UNIT	#10	1680	6930	5250	3#6, 1#10G	RANGE	KIT	50/2	AF 30
PHASE TOTALS							23292	20042					



3 BED SENSORY UNIT PLAN - ELECTRICAL
 SCALE: 1/8" = 1'-0"



3 BED UNIT PLAN - ELECTRICAL
 SCALE: 1/8" = 1'-0"

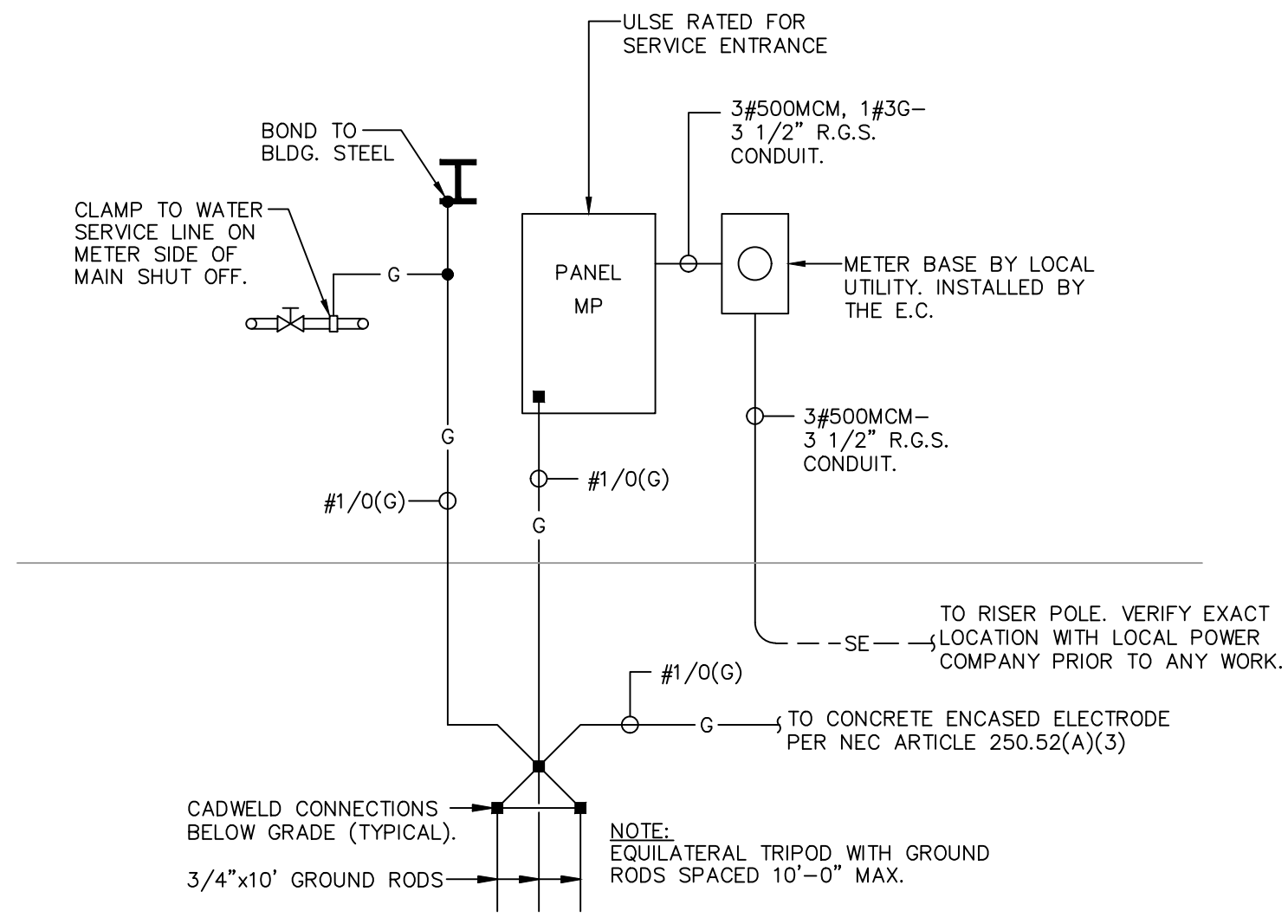
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PROJECT NUMBER
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The Park At Barton

900 E Barton Ave.
 West Memphis, AR 72301
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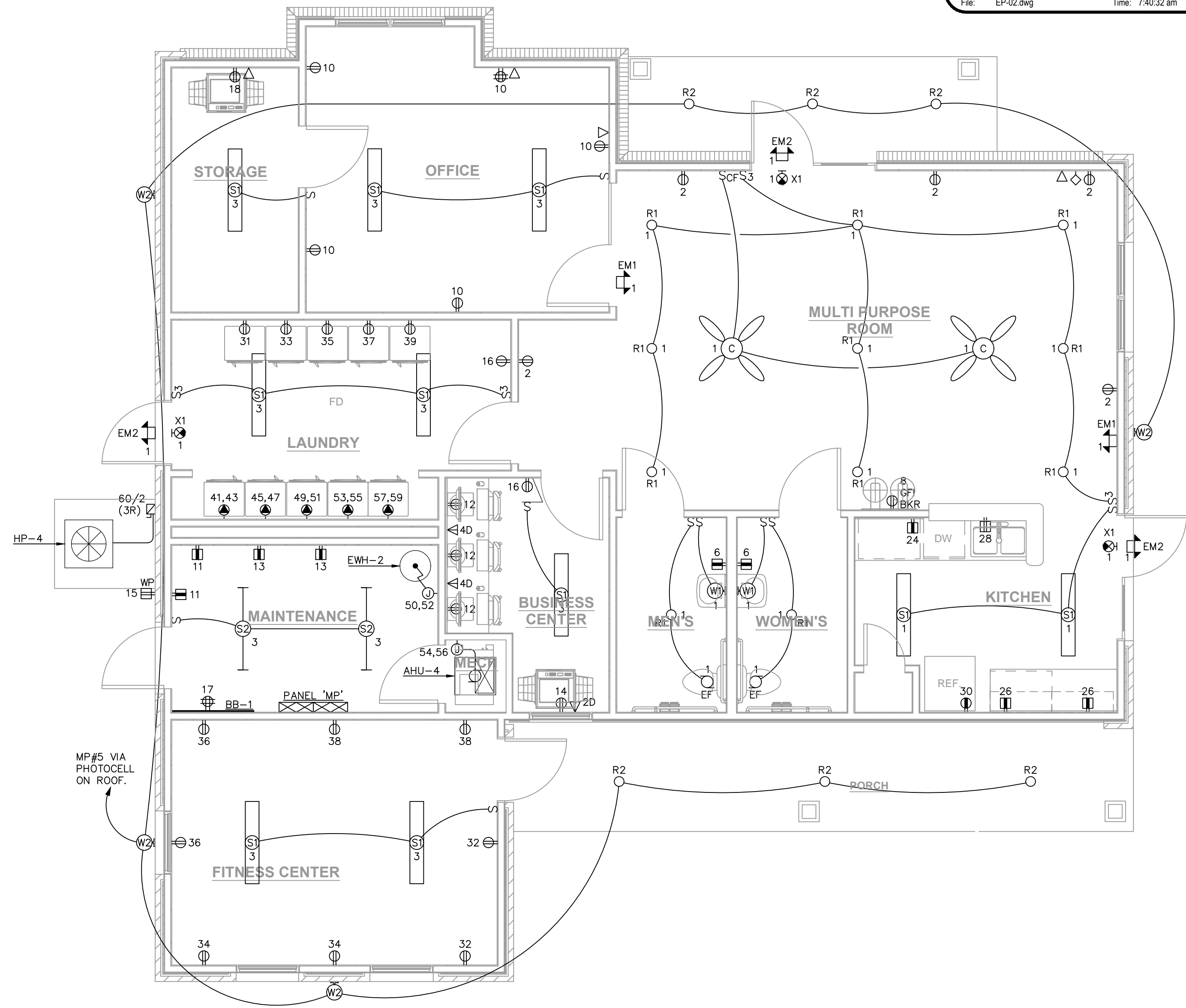
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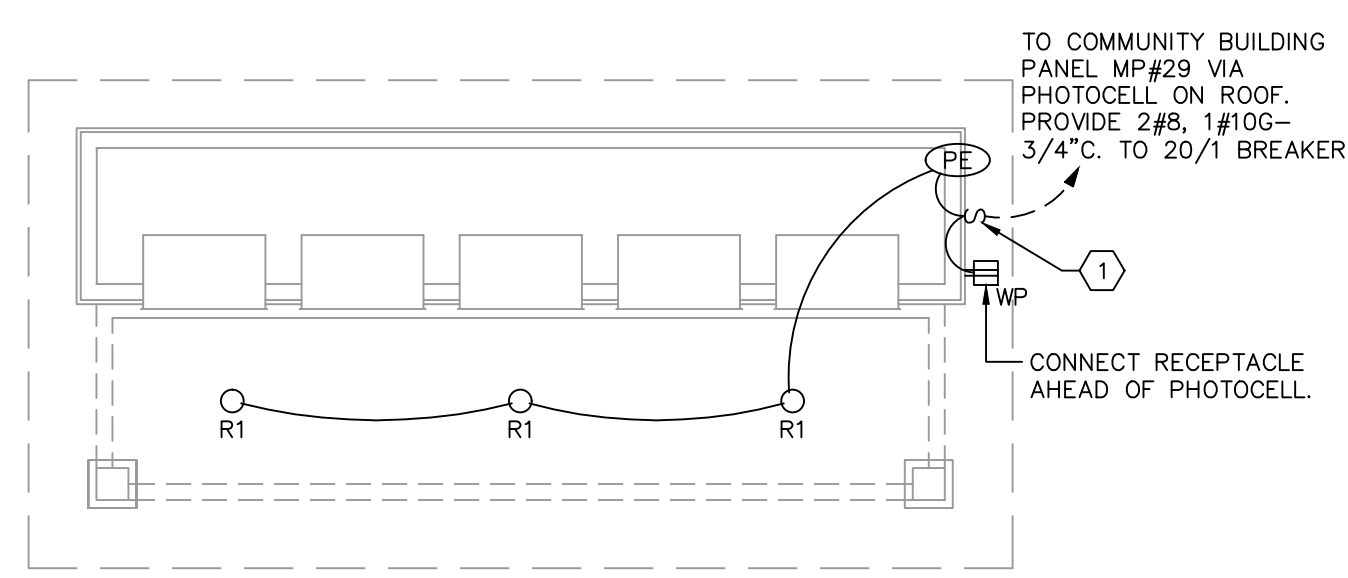


SINGLE LINE DIAGRAM - COMMUNITY BUILDING
 SCALE: NONE

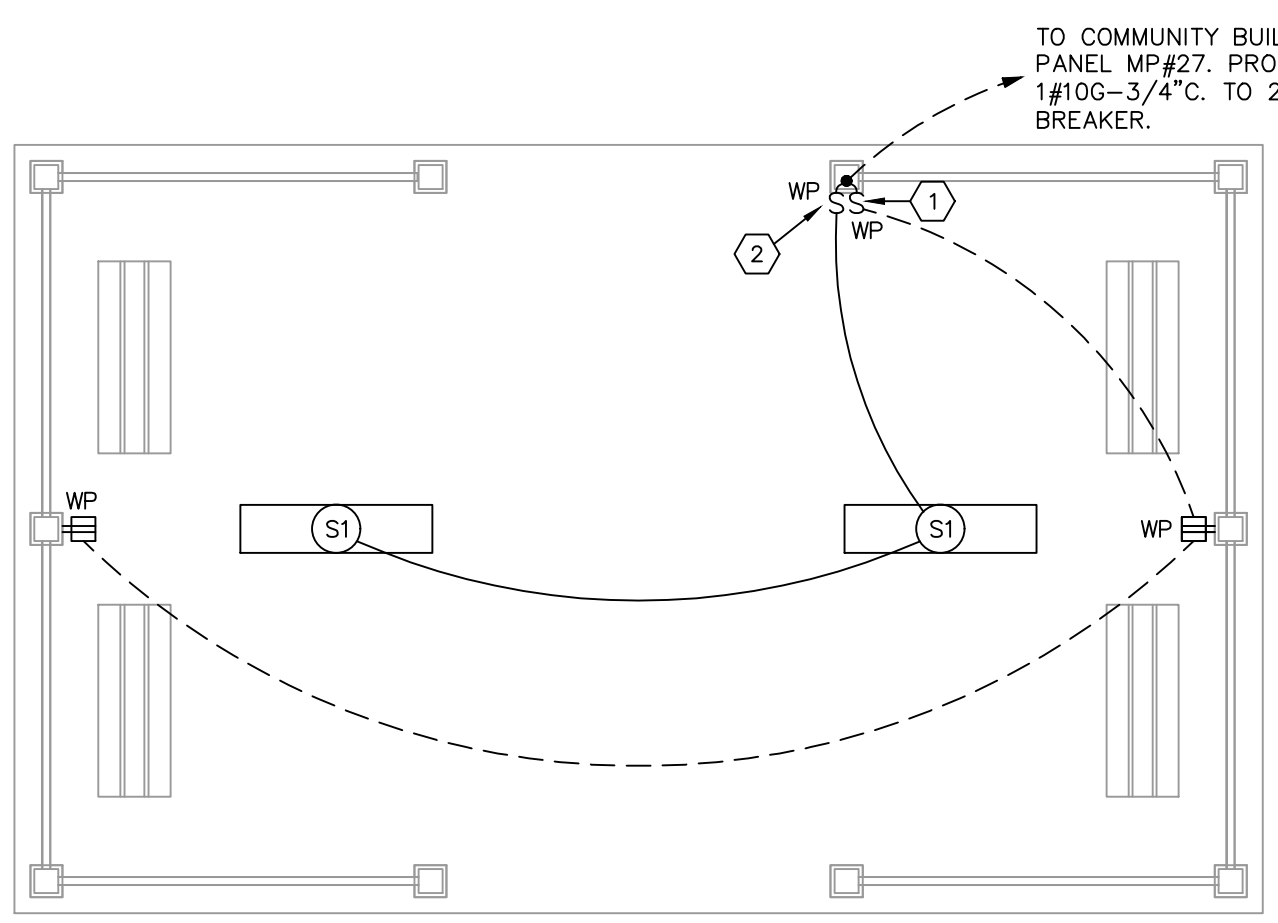
PANEL:		PANEL AMPS:		VOLTAGE:		MOUNTING:		SURFACE			
MP		400		120 / 240, 1 PHASE 3 WIRE 60 HZ		NEMA RATING:		NEMA 1			
TYPE:		MAIN BKR		AIC RATING:		LOCATION:		MAINTENANCE ROOM			
BQL		100%		42,000		FED FROM:		SERVICE TRANSFORMER			
GROUND BUS:		100%		BREAKER FEATURES:		GFI = GROUND FAULT CIRCUIT INTERRUPTER; ST = SHUNT TRIP; TH = TIE HANDLE					
						AF = ARC FAULT CIRCUIT INTERRUPTER; LO = LOCK-ON DEVICE					
CKT NO	BREAKER	LOAD TYPE	DESCRIPTION	WIRE SIZE	CKT LOAD	LINE		DESCRIPTION	LOAD TYPE	BREAKER	CKT NO
						L1	L2				
1	20/1	LTG	MULTI-PURPOSE ROOM	#12	1450	2170	720	MULTI-PURPOSE ROOM	RCPT	20/1	2
3	20/1	LTG	LOBBY, OFFICE	#12	825	1545	720	MULTI-PURPOSE ROOM	RCPT	20/1	4
5	20/1	LTG	EXTERIOR	#12	900	1620	720	KITCHEN RESTROOM	RCPT	20/1	6
7	20/1		SPARE			250	250	WATER COOLER	RCPT	20/1	8
9	20/1		SPARE			1080	1080	OFFICE	RCPT	20/1	10
11	20/1	RCPT	MAINTENANCE	#12	540	1080	540	BUSINESS CENTER	RCPT	20/1	12
13	20/1	RCPT	MAINTENANCE	#12	540	1540	1000	BUSINESS CENTER COOPER	MSC	20/1	14
15	20/1	RCPT	MAINTENANCE	#12	540	1080	540	BUSINESS CENTER LAUNDRY	RCPT	20/1	16
17	20/1	RCPT	TELEPHONE BACKBOARD	#12	360	1360	1000	OFFICE COOPER	MSC	20/1	18
19	20/1		SPARE			0	0	SPARE		20/1	20
21	20/1		SPARE			0	0	SPARE		20/1	22
23	20/1		SPARE			750	750	APPLIANCE	KIT	20/1	24
25	20/1		SPARE			1500	1500	APPLIANCE	KIT	20/1	26
27	20/1	MISC	GAZEBO	#8	500	1700	1200	DISHWASHER	KIT	20/1	28
29	20/1	MISC	MAIL KIOSK	#8	500	1250	750	REFRIGERATOR	KIT	20/1	30
31	20/1	LAUN	WASHER	#12	1200	2200	1000	FITNESS ROOM	MSC	20/1	32
33	20/1	LAUN	WASHER	#12	1200	2200	1000	FITNESS ROOM	MSC	20/1	34
35	20/1	LAUN	WASHER	#12	1200	2200	1000	FITNESS ROOM	MSC	20/1	36
37	20/1	LAUN	WASHER	#12	1200	2200	1000	FITNESS ROOM	MSC	20/1	38
39	20/1	LAUN	WASHER	#12	1200	1200	1200	SPACE		20/1	40
41	30/2	LAUN	DRYER	3#10,	2500	2500		SPACE		20/1	42
43	30/2	LAUN	DRYER	1#10G-1"C,	2500	2500		SPACE		20/1	44
45	30/2	LAUN	DRYER	3#10,	2500	2500		SPACE		20/1	46
47	30/2	LAUN	DRYER	1#10G-1"C,	2500	2500		SPACE		20/1	48
49	30/2	LAUN	DRYER	3#10,	2500	11500	9000	WATER HEATER	WTR HTR	50/2	50
51	30/2	LAUN	DRYER	1#10G-1"C,	2500	11500	9000	WATER HEATER	WTR HTR	50/2	52
53	30/2	LAUN	DRYER	3#10,	2500	11000	8500	INDOOR HVAC UNIT	HTG	90/2	54
55	30/2	LAUN	DRYER	1#10G-1"C,	2500	11000	8500	INDOOR HVAC UNIT	HTG	90/2	56
57	30/2	LAUN	DRYER	3#10,	2500	6220	3720	OUTDOOR HVAC UNIT	HTG	50/2	58
59	30/2	LAUN	DRYER	1#10G-1"C,	2500	6220	3720	OUTDOOR HVAC UNIT	HTG	50/2	60
PHASE TOTALS				48640	45725						



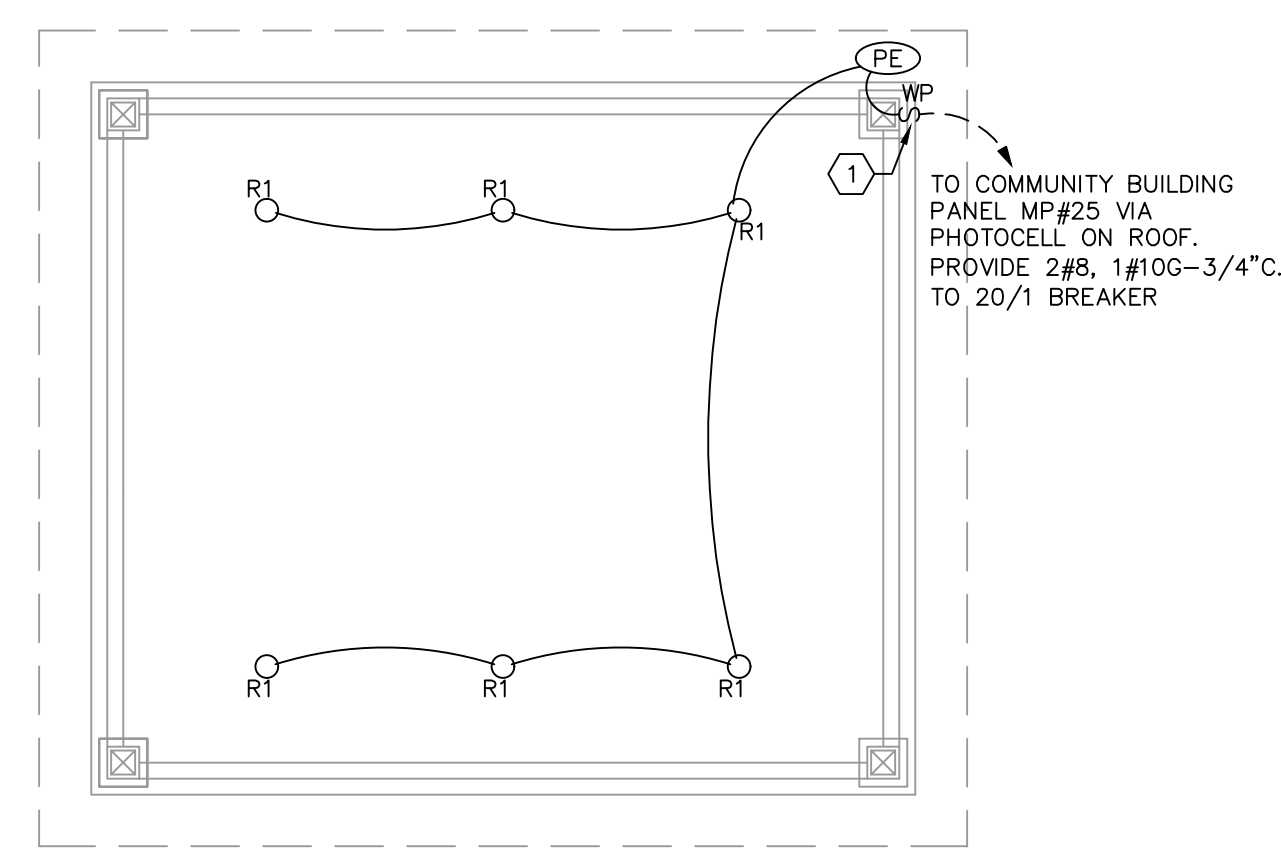
COMMUNITY BUILDING PLAN - ELECTRICAL
 SCALE: 1/4" = 1'-0"



MAIL KIOSK PLAN - ELECTRICAL
 SCALE: 1/4" = 1'-0"



GAZEBO PLAN - ELECTRICAL
 SCALE: 1/4" = 1'-0"



BUS STOP PLAN - ELECTRICAL
 SCALE: 1/4" = 1'-0"

- GENERAL NOTES THIS SHEET:**
- UNLESS NOTED OTHERWISE, ALL BRANCH CIRCUITS SHOWN SHALL HOMERUN TO PANEL 'MP'.
 - ALL EXIT SIGNS AND EMERGENCY LIGHTS SHALL BE CONNECTED TO THE CIRCUIT SHOWN AHEAD OF THE SWITCHLEG FOR CONTINUOUS POWER.
 - THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECT'S REFLECTED PLAN FOR EXACT LOCATION OF EACH FIXTURE. DO NOT SCALE DRAWINGS FOR FIXTURE PLACEMENT.
 - UNLESS NOTED OTHERWISE ALL WIRING SHALL BE 2#12, 1#12G-MC CABLE.
 - PROVIDE NEC REQUIRED WORK SPACE FOR PANELS AND DISCONNECT SWITCHES.
 - PROVIDE NAME PLATE SECURED TO EACH DISCONNECT SWITCH IDENTIFYING UNIT IDENTIFICATION, PANEL, CIRCUIT NUMBER(S), AND BREAKER SIZE. VERIFY EXACT LOCATION OF EACH WITH THE MECHANICAL AND PLUMBING CONTRACTOR(S) PRIOR TO ANY ROUGH-IN.

- PLAN NOTES THIS SHEET:**
- HP RATED, NEMA 3R, LOCKABLE SWITCH.
 - WEATHERPROOF, 1 HOUR ROTARY TYPE TIMER SWITCH.

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E07

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PANEL: HP*		PANEL AMPS: 100	VOLTAGE: 120 / 240, 1 PHASE, 3 WIRE, 60 HZ	MOUNTING: SURFACE
TYPE: PQL		MAIN TYPE: M.L.O.	A/C RATING: 10,000	NEVA RATING: NEMA 3R
		MAIN BREAKER RATING: N/A	CALC FAULT CURRENT: <10,000	LOCATION: EXTERIOR
		SOLID NEUTRAL: 100%	BREAKER FEATURES: GF = GROUND FAULT CIRCUIT INTERRUPTER, ST = SHUNT TRIP, TH = TIE HANDLE	FED FROM: METER CENTER
		GROUND BUS: 100%	AF = ARC FAULT CIRCUIT INTERRUPTER, LO = LOCK-ON DEVICE	

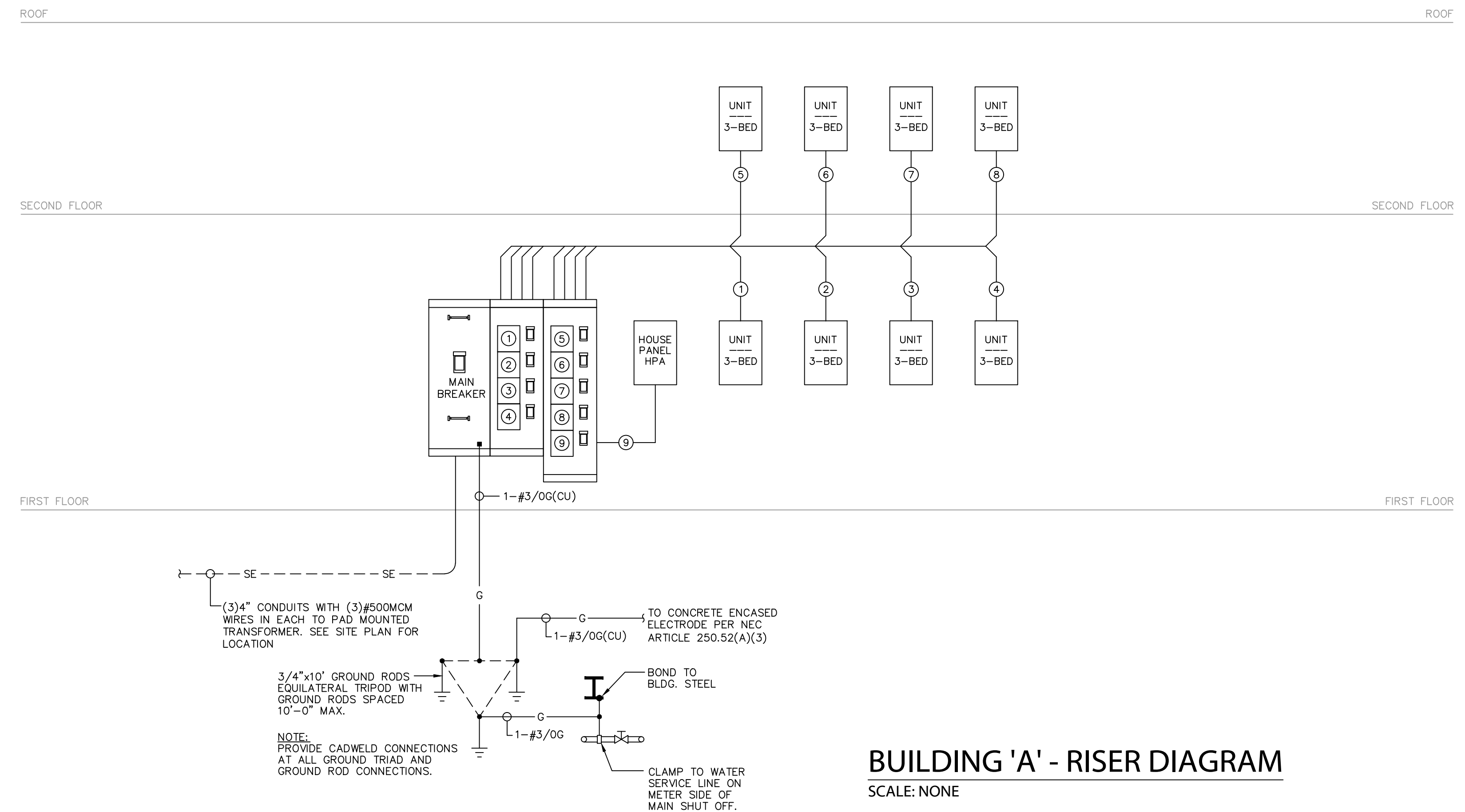
ONE SECTION PANEL	CKT NO	BREAKER	LOAD TYPE	DESCRIPTION	WIRE SIZE	CKT LOAD	LINE		CKT LOAD	WIRE SIZE	DESCRIPTION	LOAD TYPE	BREAKER	CKT NO
							L1	L2						
	1	20/1	LTG	BREEZEWAY LIGHTS	#12	500	1500		1000	#12	SPRINKLER RISER ROOM HEATER	HTG	20/2	2
	3	20/1	MSC	SPRINKLER ROOM LTG. RCPT	#12	500		1500	1000					4
	5	20/1	LO	FIRE ALARM CONTROL PANEL	#12	250	1250		1000	#8	SITE LIGHTING	LTG	20/2	6
	7	20/1		SPARE				1000	1000			LTG		8
	9	20/1		SPARE				1000	1000	#8	SITE LIGHTING	LTG	20/2	10
	11	20/1		SPARE				1000	1000			LTG		12
	13			SPACE				1000	1000	#8	SITE LIGHTING	LTG	20/2	14
	15			SPACE					1000			LTG		16
	17			SPACE				0						18
PHASE TOTALS							4750	4500						

MC-A		MAIN BREAKER RATING: 800 AMP	BUSS RATING: 800 AMP	MOUNTING: WALL MOUNTED
TYPE: METER CENTER		MAIN LUGS ONLY: N/A	VOLTS: 120 / 240	ENCLOSURE: NEMA 3R
		SOLID NEUTRAL: 100%	1 PHASE, 3 WIRE, 60 HZ	LOCATION: EXTERIOR
		GROUND BUS: 100%	A/C RATING: 22,000	FED FROM: PAD MOUNT TRANSFORMER

METER NO.	CIRCUIT BREAKER			FEEDER SIZE NO. & SIZE (1 SER. CABLE WITH COPPER CONDUCTORS)	LOAD DESCRIPTION		CONN. KVA (Note 1)	DESIGN KVA (Note 3)	DESIGN AMPS (Note 5)	NOTES	
	AMPS	POLE	VOLTS		UNIT TYPE	UNIT NUMBER					
1	125	2	240	3#1, 1#6G	3-BED		40.49	28.24	117.68	125 AMP METER SOCKET	
2	125	2	240	3#1, 1#6G	3-BED		40.49	28.24	117.68	125 AMP METER SOCKET	
3	125	2	240	3#1, 1#6G	3-BED		40.49	28.24	117.68	125 AMP METER SOCKET	
4	125	2	240	3#1, 1#6G	3-BED		40.49	28.24	117.68	125 AMP METER SOCKET	
5	125	2	240	3#1, 1#6G	3-BED		40.49	28.24	117.68	125 AMP METER SOCKET	
6	125	2	240	3#1, 1#6G	3-BED		40.49	28.24	117.68	125 AMP METER SOCKET	
7	125	2	240	3#1, 1#6G	3-BED		40.49	28.24	117.68	125 AMP METER SOCKET	
8	125	2	240	3#1, 1#6G	3-BED		40.49	28.24	117.68	125 AMP METER SOCKET	
9	100	2	240	3#2, 1#6G	HOUSE PANEL		10.00	10.00	41.67	125 AMP METER SOCKET	
TOTAL LOADS							333.90	149.28	621.98		
							(Note 2)	(Note 4)	(Note 6)		

NOTES:

- CONNECTED KVA IS THE SUM OF PART 'A' AND PART 'B' 100% COOLING LOAD TAKEN FROM THE SINGLE DWELLING UNIT LOAD CALCULATION.
- TOTAL CONNECTED KVA IS THE SUM OF THE CONNECTED KVA FOR ALL APARTMENTS SERVED BY THIS METER CENTER.
- DESIGN KVA IS THE SUM OF PART 'A' PARTIAL DEMAND AND PART 'B' A/C LOAD TAKEN FROM THE SINGLE UNIT LOAD CALCULATION.
- TOTAL DESIGN KVA IS THE SUM OF THE DESIGN KVA FOR ALL APARTMENTS SERVED BY THIS METER CENTER MULTIPLIED BY THE DEMAND FACTOR FROM TABLE 220-84 OF THE NEC PLUS THE TOTAL LOAD OF THE HOUSE PANEL.
- DESIGN AMPS IS CALCULATED USING THE DESIGN KVA AND SERVICE VOLTAGE TO THE APARTMENT (120/240, 1 PHASE, 3 WIRE).
- TOTAL DESIGN AMPS IS CALCULATED USING THE TOTAL CONNECTED KVA AND SERVICE VOLTAGE TO THE METER CENTER (120/240, 1 PHASE, 3 WIRE) MULTIPLIED BY THE DEMAND FACTOR FROM TABLE 220-84 OF THE NEC.
- FEEDERS ARE SIZED FOR COPPER CONDUCTORS AT 75°C. ALUMINUM CONDUCTORS MAY BE USED AT THE CONTRACTOR'S OPTION. CONDUCTORS SHALL BE UPSIZED AS REQUIRED TO MEET THE AMPCAPACITY OF THE FEEDER.



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900 E Barton Ave,
West Memphis, AR 72301
SHEET NUMBER

E08

CAD FILE NUMBER

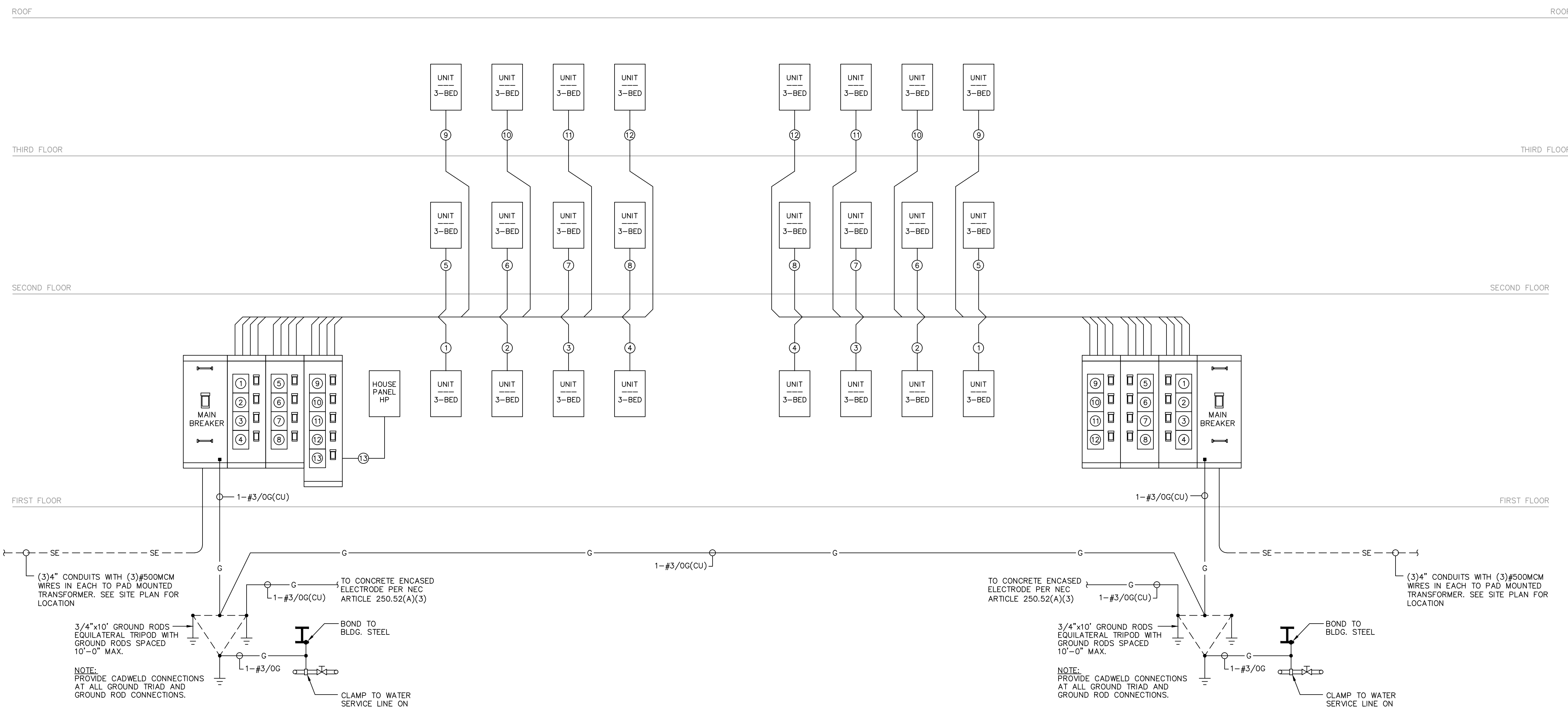
PANEL: HP*	PANEL AMPS: 100	VOLTAGE: 120 / 240, 1 PHASE, 3 WIRE, 60 HZ	MOUNTING: SURFACE										
TYPE: PQL	MAIN BREAKER RATING: N/A	AIC RATING: 10,000	ENCLOSURE: NEMA 3R										
	SOLID NEUTRAL: 100%	CALC FAULT CURRENT: <10,000	LOCATION: EXTERIOR										
	GROUND BUS: 100%	BREAKER FEATURES: GFI = GROUND FAULT CIRCUIT INTERRUPTER, ST = SHUNT TRIP, TH = TIE HANDLE	METER CENTER										
		AF = ARC FAULT CIRCUIT INTERRUPTER, LO = LOCK-ON DEVICE											
ONE SECTION PANEL													
CKT NO.	BREAKER	LOAD TYPE	DESCRIPTION	WIRE SIZE	CKT LOAD	L1	L2	CKT LOAD	WIRE SIZE	DESCRIPTION	LOAD TYPE	BREAKER	CKT NO.
1	20/1	LTG	BREEZEWAY LIGHTS	#12	500	1500		1000		#12	SPRINKLER RISER ROOM HEATER	HTG	2
3	20/1	MISC	SPRINKLER ROOM L.T.S, RCPT	#12	500		1500	1000					4
5	20/1	LO	MISC	#12	250	1250		1000		#8	SITE LIGHTING	LTG	6
7	20/1		SPARE				1000	1000					8
9	20/1		SPARE				1000	1000		#8	SITE LIGHTING	LTG	10
11	20/1		SPARE				1000	1000		#8	SITE LIGHTING	LTG	12
13			SPACE				1000	1000					14
15			SPACE				1000	1000					16
17			SPACE				0	1000	1000				18
		PHASE TOTALS				4750	4500						

MC-B1	MAIN BREAKER RATING: 1000 AMP	BUS RATING: 1000 AMP	MOUNTING: WALL MOUNTED				
TYPE: METER CENTER	MAIN LUGS ONLY: N/A	VOLTS: 120 / 240	ENCLOSURE: NEMA 3R				
	SOLID NEUTRAL: 100%	1 PHASE, 3 WIRE, 60 HZ	LOCATION: EXTERIOR				
	GROUND BUS: 100%	AIC RATING: 22,000	FED FROM: PAD MOUNT TRANSFORMER				
METER NO.	CIRCUIT BREAKER	FEEDER SIZE NO. & SIZE	LOAD DESCRIPTION	CONN. KVA	DESIGN KVA	DESIGN AMPS	NOTES
1	125 2 240	3#1, 1#6G	3-BED	40.49	28.24	117.68	125 AMP METER SOCKET
2	125 2 240	3#1, 1#6G	3-BED	40.49	28.24	117.68	125 AMP METER SOCKET
3	125 2 240	3#1, 1#6G	3-BED	40.49	28.24	117.68	125 AMP METER SOCKET
4	125 2 240	3#1, 1#6G	3-BED	40.49	28.24	117.68	125 AMP METER SOCKET
5	125 2 240	3#1, 1#6G	3-BED	40.49	28.24	117.68	125 AMP METER SOCKET
6	125 2 240	3#1, 1#6G	3-BED	40.49	28.24	117.68	125 AMP METER SOCKET
7	125 2 240	3#1, 1#6G	3-BED	40.49	28.24	117.68	125 AMP METER SOCKET
8	125 2 240	3#1, 1#6G	3-BED	40.49	28.24	117.68	125 AMP METER SOCKET
9	125 2 240	3#1, 1#6G	3-BED	40.49	28.24	117.68	125 AMP METER SOCKET
10	125 2 240	3#1, 1#6G	3-BED	40.49	28.24	117.68	125 AMP METER SOCKET
11	125 2 240	3#1, 1#6G	3-BED	40.49	28.24	117.68	125 AMP METER SOCKET
12	125 2 240	3#1, 1#6G	3-BED	40.49	28.24	117.68	125 AMP METER SOCKET
13	100 2 240	3#2, 1#6G	HOUSE PANEL	10.00	10.00	41.67	125 AMP METER SOCKET
TOTAL LOADS				495.84	209.20	871.65	
				(Note 2)	(Note 4)	(Note 5)	

- NOTES:
- CONNECTED KVA IS THE SUM OF PART 'A' AND PART 'B' 100% COOLING LOAD TAKEN FROM THE SINGLE DWELLING UNIT LOAD CALCULATION
 - TOTAL CONNECTED KVA IS THE SUM OF THE CONNECTED KVA FOR ALL APARTMENTS SERVED BY THIS METER CENTER
 - DESIGN KVA IS THE SUM OF PART 'A' PARTIAL DEMAND AND PART 'B' A/C LOAD TAKEN FROM THE SINGLE UNIT LOAD CALCULATION
 - TOTAL DESIGN KVA IS THE SUM OF THE DESIGN KVA FOR ALL APARTMENTS SERVED BY THIS METER CENTER MULTIPLIED BY THE DEMAND FACTOR FROM TABLE 220-84 OF THE NEC PLUS THE TOTAL LOAD OF THE HOUSE PANEL
 - DESIGN AMPS IS CALCULATED USING THE DESIGN KVA AND SERVICE VOLTAGE TO THE APARTMENT (120/240, 1 PHASE, 3 WIRE)
 - TOTAL DESIGN AMPS IS CALCULATED USING THE TOTAL CONNECTED KVA AND SERVICE VOLTAGE TO THE METER CENTER (120/240, 1 PHASE, 3 WIRE) MULTIPLIED BY THE DEMAND FACTOR FROM TABLE 220-84 OF THE NEC
 - FEEDERS ARE SIZED FOR COPPER CONDUCTORS AT 75°C. ALUMINUM CONDUCTORS MAY BE USED AT THE CONTRACTORS OPTION. CONDUCTORS SHALL BE UPSIZED AS REQUIRED TO MEET THE AMPACITY OF THE FEEDER

MC-B2	MAIN BREAKER RATING: 1000 AMP	BUS RATING: 1000 AMP	MOUNTING: WALL MOUNTED				
TYPE: METER CENTER	MAIN LUGS ONLY: N/A	VOLTS: 120 / 240	ENCLOSURE: NEMA 3R				
	SOLID NEUTRAL: 100%	1 PHASE, 3 WIRE, 60 HZ	LOCATION: EXTERIOR				
	GROUND BUS: 100%	AIC RATING: 22,000	FED FROM: PAD MOUNT TRANSFORMER				
METER NO.	CIRCUIT BREAKER	FEEDER SIZE NO. & SIZE	LOAD DESCRIPTION	CONN. KVA	DESIGN KVA	DESIGN AMPS	NOTES
1	125 2 240	3#1, 1#6G	3-BED	40.49	28.24	117.68	125 AMP METER SOCKET
2	125 2 240	3#1, 1#6G	3-BED	40.49	28.24	117.68	125 AMP METER SOCKET
3	125 2 240	3#1, 1#6G	3-BED	40.49	28.24	117.68	125 AMP METER SOCKET
4	125 2 240	3#1, 1#6G	3-BED	40.49	28.24	117.68	125 AMP METER SOCKET
5	125 2 240	3#1, 1#6G	3-BED	40.49	28.24	117.68	125 AMP METER SOCKET
6	125 2 240	3#1, 1#6G	3-BED	40.49	28.24	117.68	125 AMP METER SOCKET
7	125 2 240	3#1, 1#6G	3-BED	40.49	28.24	117.68	125 AMP METER SOCKET
8	125 2 240	3#1, 1#6G	3-BED	40.49	28.24	117.68	125 AMP METER SOCKET
9	125 2 240	3#1, 1#6G	3-BED	40.49	28.24	117.68	125 AMP METER SOCKET
10	125 2 240	3#1, 1#6G	3-BED	40.49	28.24	117.68	125 AMP METER SOCKET
11	125 2 240	3#1, 1#6G	3-BED	40.49	28.24	117.68	125 AMP METER SOCKET
12	125 2 240	3#1, 1#6G	3-BED	40.49	28.24	117.68	125 AMP METER SOCKET
TOTAL LOADS				485.84	199.20	829.98	
				(Note 2)	(Note 4)	(Note 5)	

- NOTES:
- CONNECTED KVA IS THE SUM OF PART 'A' AND PART 'B' 100% COOLING LOAD TAKEN FROM THE SINGLE DWELLING UNIT LOAD CALCULATION
 - TOTAL CONNECTED KVA IS THE SUM OF THE CONNECTED KVA FOR ALL APARTMENTS SERVED BY THIS METER CENTER
 - DESIGN KVA IS THE SUM OF PART 'A' PARTIAL DEMAND AND PART 'B' A/C LOAD TAKEN FROM THE SINGLE UNIT LOAD CALCULATION
 - TOTAL DESIGN KVA IS THE SUM OF THE DESIGN KVA FOR ALL APARTMENTS SERVED BY THIS METER CENTER MULTIPLIED BY THE DEMAND FACTOR FROM TABLE 220-84 OF THE NEC PLUS THE TOTAL LOAD OF THE HOUSE PANEL
 - DESIGN AMPS IS CALCULATED USING THE DESIGN KVA AND SERVICE VOLTAGE TO THE APARTMENT (120/240, 1 PHASE, 3 WIRE)
 - TOTAL DESIGN AMPS IS CALCULATED USING THE TOTAL CONNECTED KVA AND SERVICE VOLTAGE TO THE METER CENTER (120/240, 1 PHASE, 3 WIRE) MULTIPLIED BY THE DEMAND FACTOR FROM TABLE 220-84 OF THE NEC
 - FEEDERS ARE SIZED FOR COPPER CONDUCTORS AT 75°C. ALUMINUM CONDUCTORS MAY BE USED AT THE CONTRACTORS OPTION. CONDUCTORS SHALL BE UPSIZED AS REQUIRED TO MEET THE AMPACITY OF THE FEEDER



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 PROJECT: **The Park At Barton**

900 E Barton Ave.
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SHEET NUMBER: **E09**

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