



APARTMENT BUILDING

TIMBER RIDGE COTTAGES

SECTION 8, TOWNSHIP 18, RANGE 15
BROKEN ARROW, WAGONER COUNTY, OK



STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

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GENERAL PROJECT NOTES

- A. ALL WORK TO MEET ALL APPLICABLE BUILDING, PLUMBING, MECHANICAL, ELECTRICAL, ADA/HANDICAP ACCESSIBILITY & LIFE SAFETY CODES & REQUIREMENTS.
- B. THE GENERAL CONTRACTOR & ALL SUBCONTRACTORS SHALL THOROUGHLY FAMILIARIZE THEMSELVES TO ALL BUILDING SPECIFIC REQUIREMENTS & EXTENTS OF THE WORK PRIOR TO BIDDING. NO CHANGES IN THE CONTRACT WILL BE CONSIDERED FOR INFORMATION DISCERNIBLE FROM THE DRAWINGS.
- C. DO NOT SCALE DRAWINGS. FIELD VERIFY ALL EX. CONDITIONS, DIMENSIONS, ELEVATIONS, ETC. PRIOR TO ORDERING, FABRICATION, ETC..
- D. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN THE PROJECT DOCUMENTS & EX. CONDITIONS.
- E. REFERENCE ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL & PLUMBING PLANS FOR ADDITIONAL INFORMATION.
- F. INSTALL NON-EXPANDING SPRAY FOAM INSULATION AT WINDOW & EXTERIOR DOOR BLOCKING. SEAL ALL CRACKS, GAPS & HOLES (FLOOR / WALL JOINT, WALL TOP PLATE, ELEC. OUTLET BOXES, MEP PENETRATING ITEMS, HVAC SUPPLY & RETURN BOOTS, ETC.) IN THE GYP. BD. BUILDING ENVELOPE (WALLS & CEILING) WITH CAULK OR EXPANDING FOAM. ALL UNITS WILL BE REQUIRED TO MEET A MAX. BLOWER DOOR SCORE OF 4ACH50.
- G. PARTICLE BOARD & MDF TO BE CERTIFIED COMPLIANT WITH ANSI A208.1 & A208.2, UREA FORMALDEHYDE-FREE COMPOSITE WOOD.
- H. CAULK ALL JOINTS BETWEEN DISSIMILAR MATERIALS FOR WEATHERPROOF, WATERPROOF, AIRTIGHT, ETC. PERFORMANCE.
- I. ALL COLOR SELECTIONS BY ARCHITECT FROM MANUFACTURER'S FULL RANGE.
- J. REFER TO DOOR SCHEDULE FOR DOOR & HARDWARE REQUIREMENTS. THE HINGE SIDE OF THE DOOR JAMB SHALL BE 4" FROM THE ADJACENT WALL, UNLESS SHOWN OTHERWISE.
- K. REFER TO SHEET A0.1 FOR TYPICAL FIRESTOPPING DETAILS, 070413.
- L. TERMITES TREATMENT SHALL BE INSTALLED PRIOR TO INSTALLING BUILDING SLAB.

PROJECT TEAM

ARCHITECT

STARK WILSON DUNCAN
ARCHITECTS INC.
315 NICHOLS ROAD, SUITE 228
KANSAS CITY, MISSOURI 64112
TEL 816 531 1698
FAX 816 531 1978

STRUCTURAL

BOB D. CAMPBELL
4338 BELLEVUE
KANSAS CITY, MO 64111
TEL 816 531 4144
FAX 816 531 8512

MECHANICAL, ELECTRICAL & PLUMBING ENGINEER

HOSS & BROWN ENGINEERS INC.
11205 WEST 14TH STREET
LENEKA, KANSAS 66214
TEL 913 362 9090
FAX 913 362 4646

CIVIL

CROCKETT ENGINEERING CONSULTANTS, LLC
1000 N NIFONG BLVD, BLDG 1
COLUMBIA, MO 65202
TEL 417 441 0242

DEVELOPER

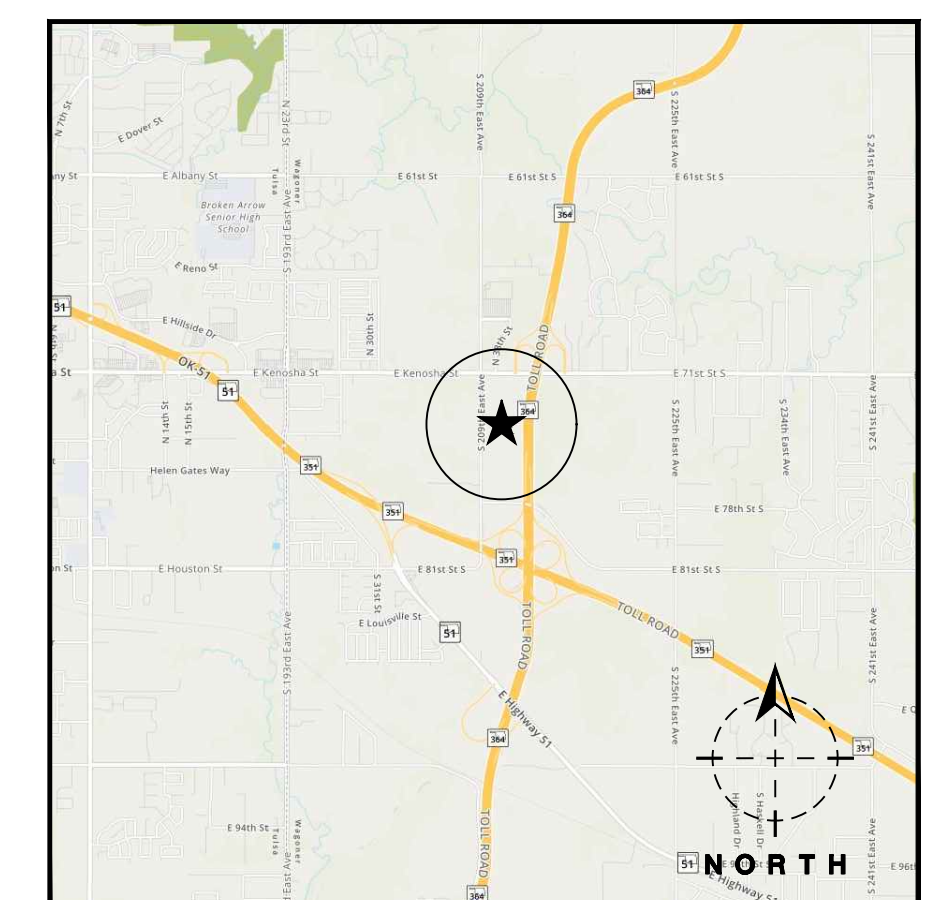
DHTG DEVELOPMENT, LLC
1900 E LARK LANE
NIXA, MISSOURI 65714
TEL 417 224 3035

GENERAL CONTRACTOR

OLYMPUS CONSTRUCTION, INC.
2506 W WASHINGTON
JONESBORO, ARKANSAS 72401
TEL 870 432 6610
FAX 870 432 0856

ISSUE DATE:

OCTOBER 18, 2019



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Oct 18, 2019 1:52pm

10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

KEYNOTES

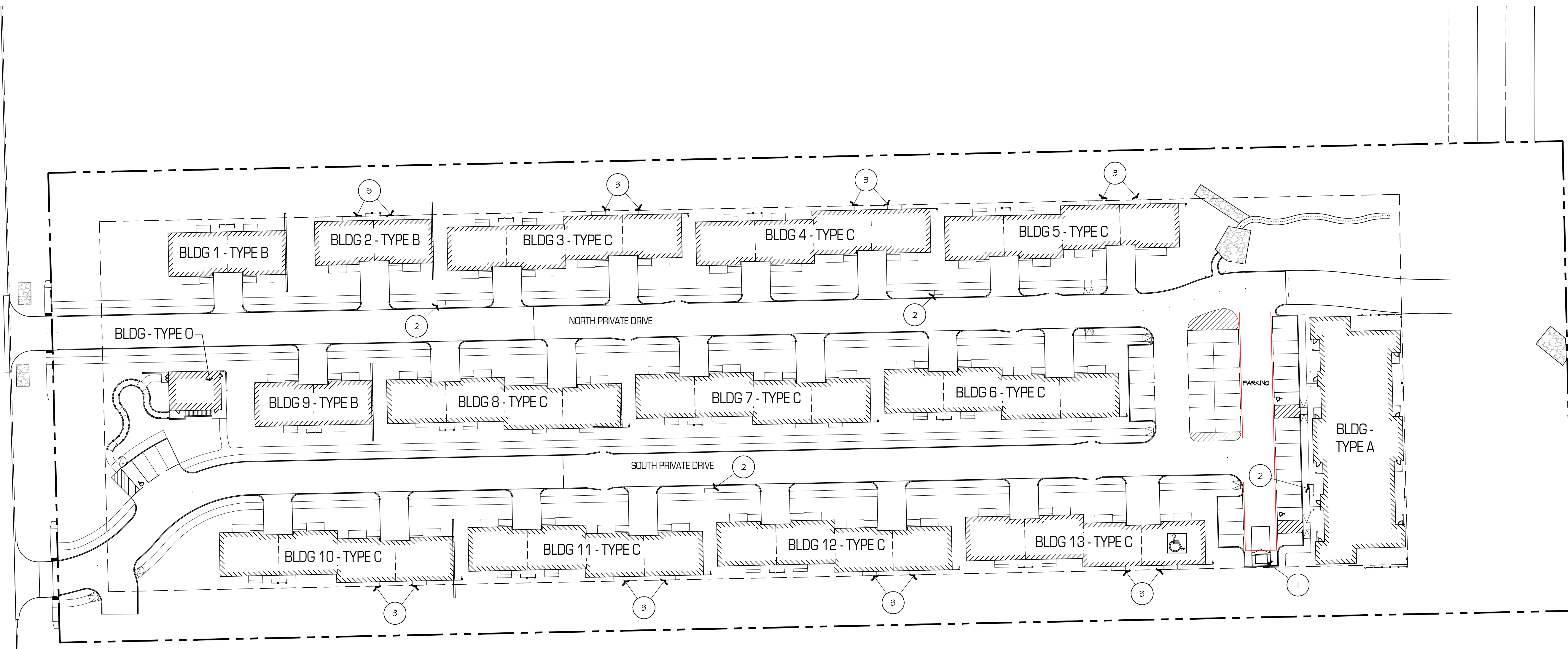
- 1. TRASH ENCLOSURE. REF. TO A5/SP1.2.
- 2. MAILBOX(S). REF. A7/SP1.2. PROVIDE CONCRETE PAD AT EACH LOCATION. REF. CIVIL. 10590015
- 3. REDUCE DEPTH OF CONCRETE PATIO THIS LOCATION. REFER TO A6/A11 FOR ADDITIONAL INFORMATION.



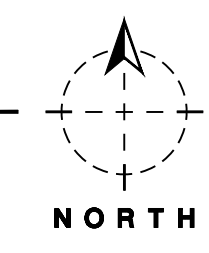
ARCHITECTURAL CORPORATION
OKLAHOMA CERTIFICATE
OF AUTHORITY NO. CA 02479

TIMBER RIDGE COTTAGES
SECTION 8, TOWNSHIP 18, RANGE 15
BROKEN ARROW, WAGONER COUNTY, OK

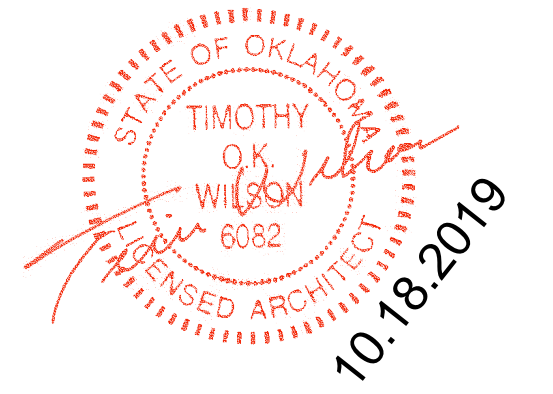
STARK WILSON DUNCAN ARCHITECTS INC.
315 NICHOLS RD. STE 228 - KANSAS CITY, MO 64112 - T 816.531.1998 F 816.531.1978



A2 SITE PLAN
SCALE: 1" = 40' - 0"



SEAL
ARCHITECT - TIMOTHY O.K. WILSON
LICENSE NO. 6082

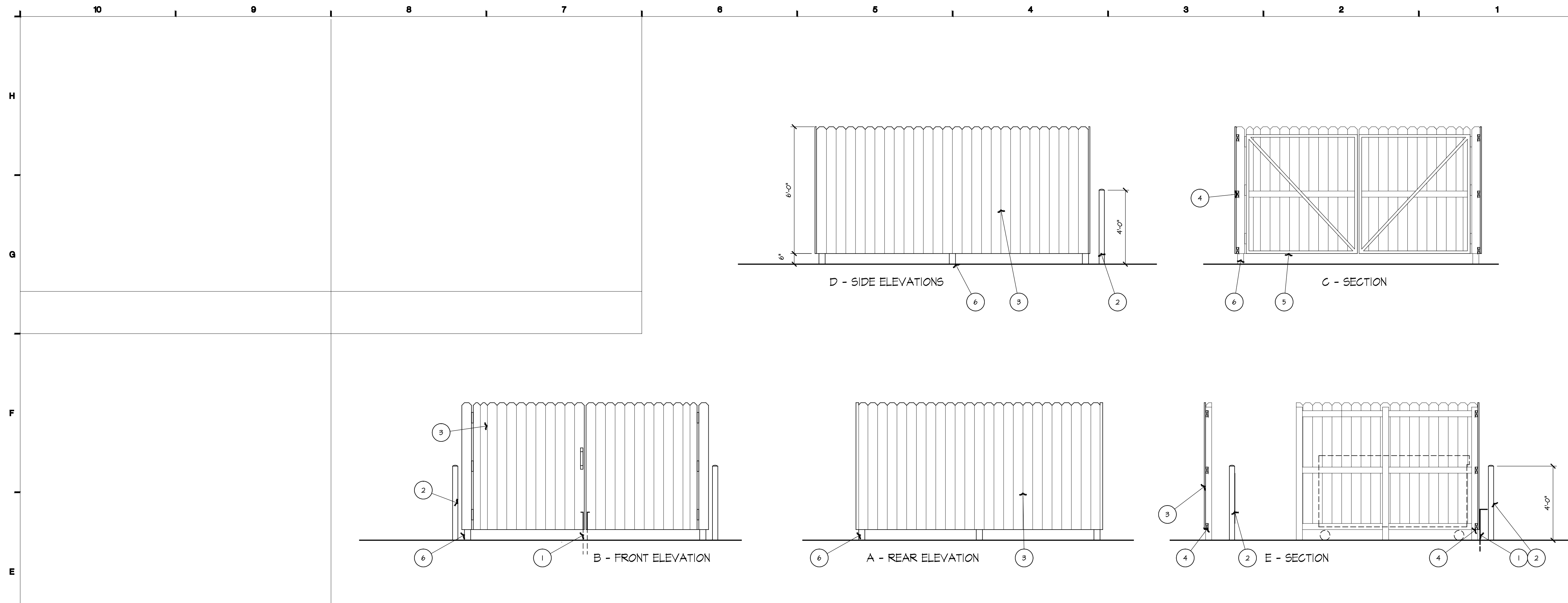


SITE PLAN

ISSUE DATE:
OCTOBER 18, 2019
REVISIONS:

PROJECT NO.: 1902

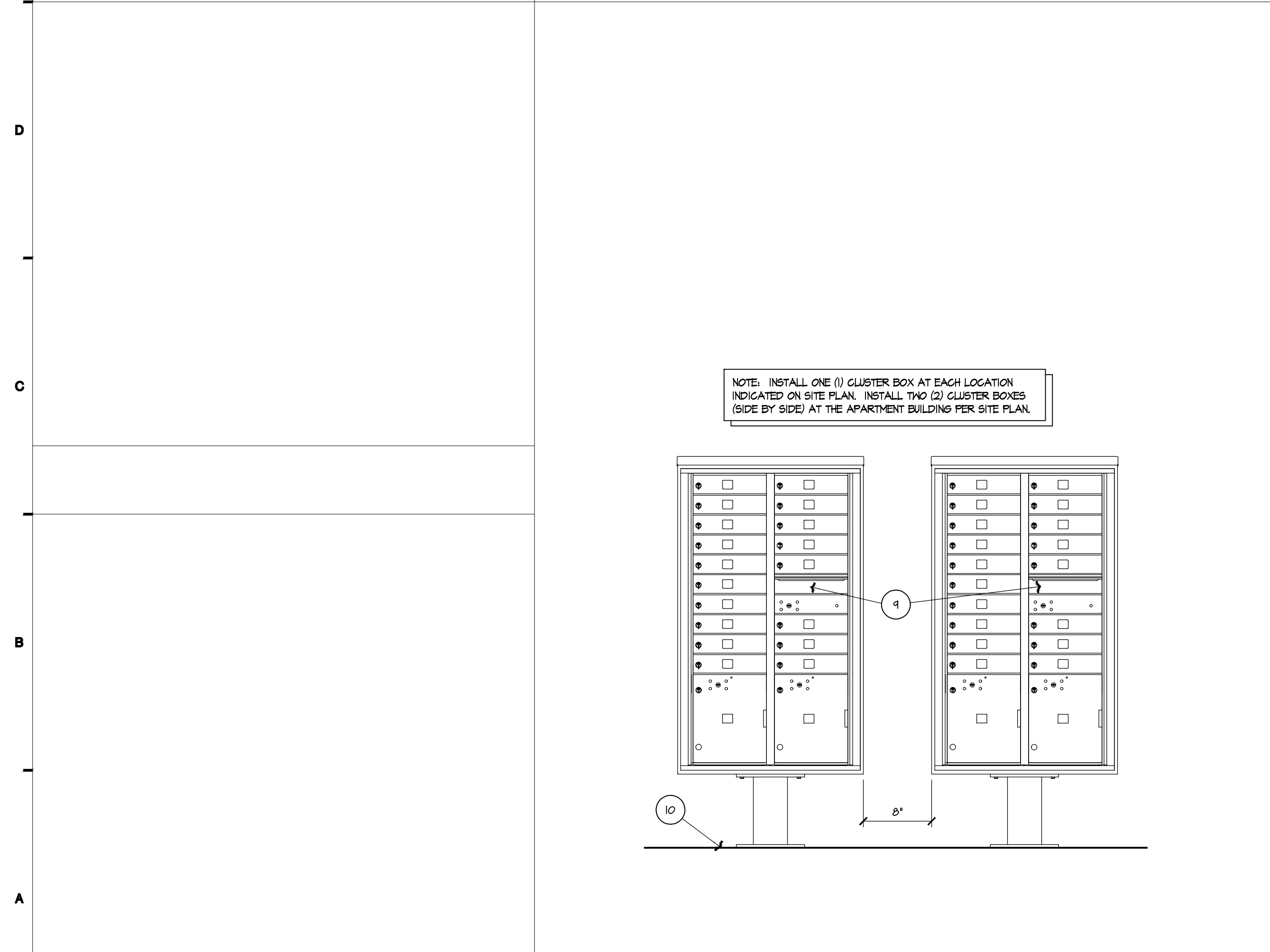
SP1.1



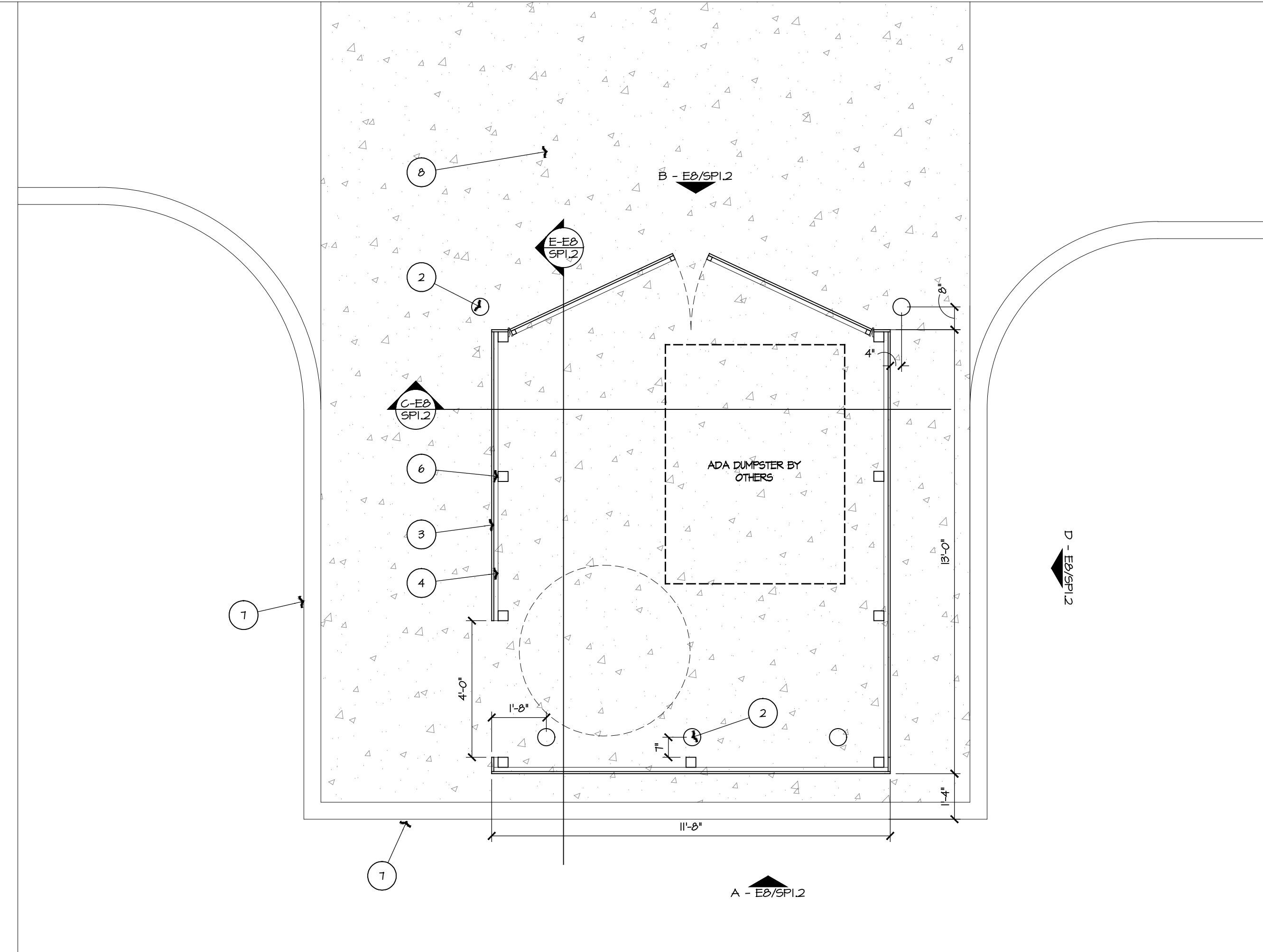
KEY NOTES

1. 16" TALL GANE BOLT, PROVIDE HOLE IN CONCRETE. PROVIDE 1 FOR EACH GATE. PAINT.
2. 6" DIA. CONCRETE FILLED STEEL BOLLARD AT 4'-0" TALL. PAINT. EMBED 3'-0" MIN. INTO CONCRETE.
3. 6'-0" TALL VINYL FENCING BY "VERANDA". COLOR BY ARCHITECT. INSTALL TO HOOD FRAMING FOR ENHANCED STRENGTH & DURABILITY. FASTEN WITH EXTERIOR GRADE SCREWS.
4. 2X4 TREATED WOOD FENCE FRAMING.
5. H66 1/2" X 1 1/2" X 3/16" STEEL TUBE GATE FRAMING. ALL CONNECTIONS FULLY WELDED. GRIND WELDS SMOOTH. PAINT. SCREW FENCING TO STEEL TUBING WITH 2" SELF DRILLING TEK #5 SCREWS. PROVIDE AND INSTALL 3 HEAVY DUTY HINGES ON EACH GATE.
6. H66 3/4" X 3 1/2" X 5/16" TUBE STEEL POSTS SET IN MIN. 3'-0" DEEP CONCRETE. CAP POSTS WITH STEEL PLATE. PAINT. SCREW FRAMING TO STEEL POSTS WITH 3" SELF DRILLING TEK #5 SCREWS. PAINT.
7. BACK OF CURB. REFER TO CIVIL PLANS.
8. REINFORCED CONCRETE SLAB. REFER TO CIVIL PLANS.
9. FLORENCE CORPORATION CLUSTER MAIL BOX - VITAL 150-19. COLOR POSTAL GREY. NUMBERING OF MAILBOX PER THE REQUIREMENTS OF THE LOCAL POSTAL SERVICE.
10. CONCRETE PAD PER CLUSTER MAIL BOX MFG SPECIFICATIONS.

E8 TRASH ENCLOSURE ELEVATIONS
SCALE: 3/8" = 1'-0"



A7 MAIL BOX ELEVATION
SCALE: NO SCALE



A5 TRASH ENCLOSURE PLAN
SCALE: 3/8" = 1'-0"



ARCHITECTURAL CORPORATION
OKLAHOMA CERTIFICATE
OF AUTHORITY NO. CA 02479

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SEAL
ARCHITECT - TIMOTHY O.K. WILSON
LICENSE NO. 6082



SITE DETAILS

ISSUE DATE:
OCTOBER 18, 2019
REVISIONS:

PROJECT NO.: 1902

SP1.2

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CODE ANALYSIS

LOCAL ADOPTED CODES:

BUILDING: IBC 2015 INTERNATIONAL BUILDING CODE
ENERGY: IECC 2015 INTERNATIONAL ENERGY CONSERVATION CODE
MECHANICAL: IMC 2015 INTERNATIONAL MECHANICAL CODE
PLUMBING: IPC 2015 INTERNATIONAL PLUMBING CODE
FIRE: IFGC 2015 INTERNATIONAL FIRE CODE
ELECTRICAL: NEC 2015 NATIONAL ELECTRICAL CODE

ZONING: PUD

PARKING: 15 SPACES PER UNIT REQUIRED PER ZONING (28 UNITS X 15 = 42 STALLS REQUIRED)
15 SPACES PER UNIT PROVIDED FOR A TOTAL OF 42 STALLS

OCCUPANCY CLASSIFICATION: R2

BUILDING HEIGHT: 50' ALLOWED PER ZONING, 4 STORIES & 60' ALLOWED PER
TABLES 504.3 & 504.4
50'-0" & 4 STORIES ACTUAL PER CODE

TYPE OF CONSTRUCTION: TYPE VB

THE BUILDING IS FULLY SPRINKLERED, NFPA 13R SYSTEM, PER SECTION 903.3.1.2

BUILDING AREA:
ALLOWABLE AREA PER FLOOR PER 506.1 = $A_d = 7000(A_h) + [1000(A_h) \times .75(H)] = 12,250$ SF
ACTUAL MAX. AREA PER FLOOR = 8,991 SF

OCCUPANT LOAD:

1ST FLOOR - 8,991 / 200 = 45 OCCUPANTS
2ND FLOOR - 8,991 / 200 = 45 OCCUPANTS
3RD FLOOR - 8,991 / 200 = 45 OCCUPANTS
4TH FLOOR - 4,906 / 200 = 25 OCCUPANTS
TOTAL = 160 OCCUPANTS

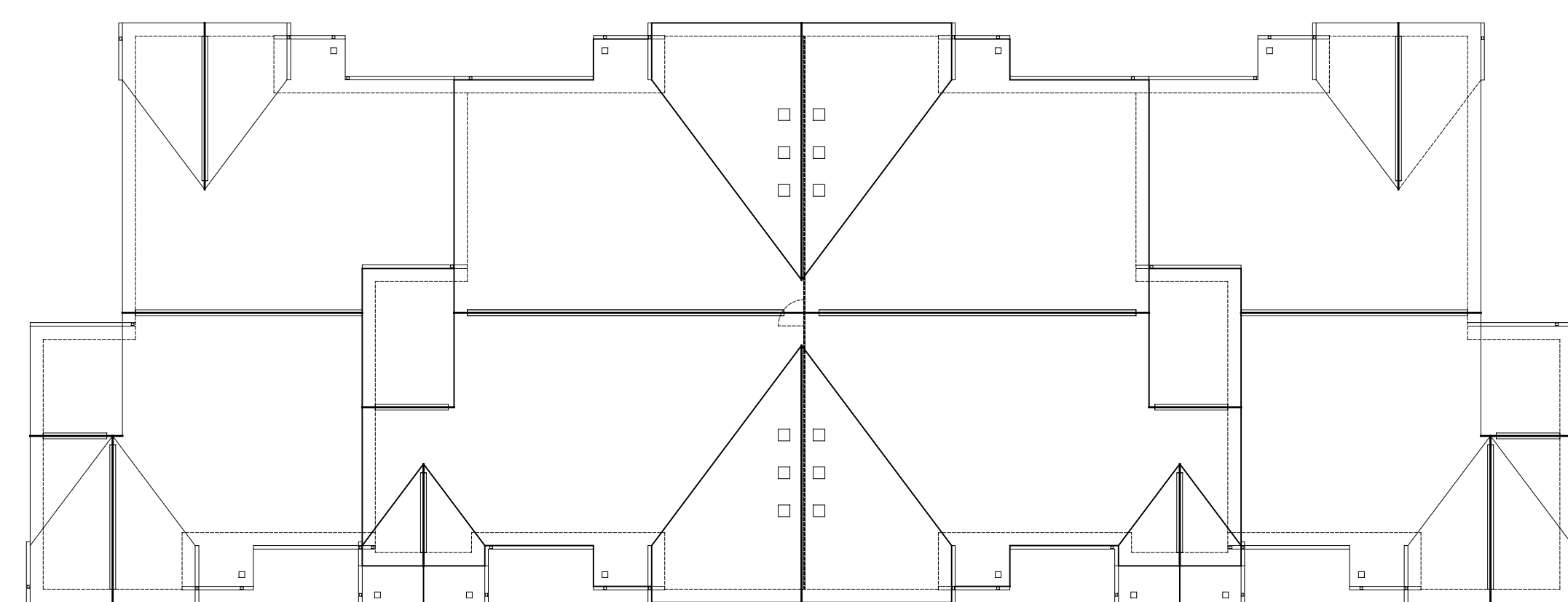
EGRESS REQUIREMENTS - 2 EXITS ARE REQUIRED AND PROVIDED

FIRE RESISTIVE REQUIREMENTS (MINIMUMS) PER IBC TABLE 601

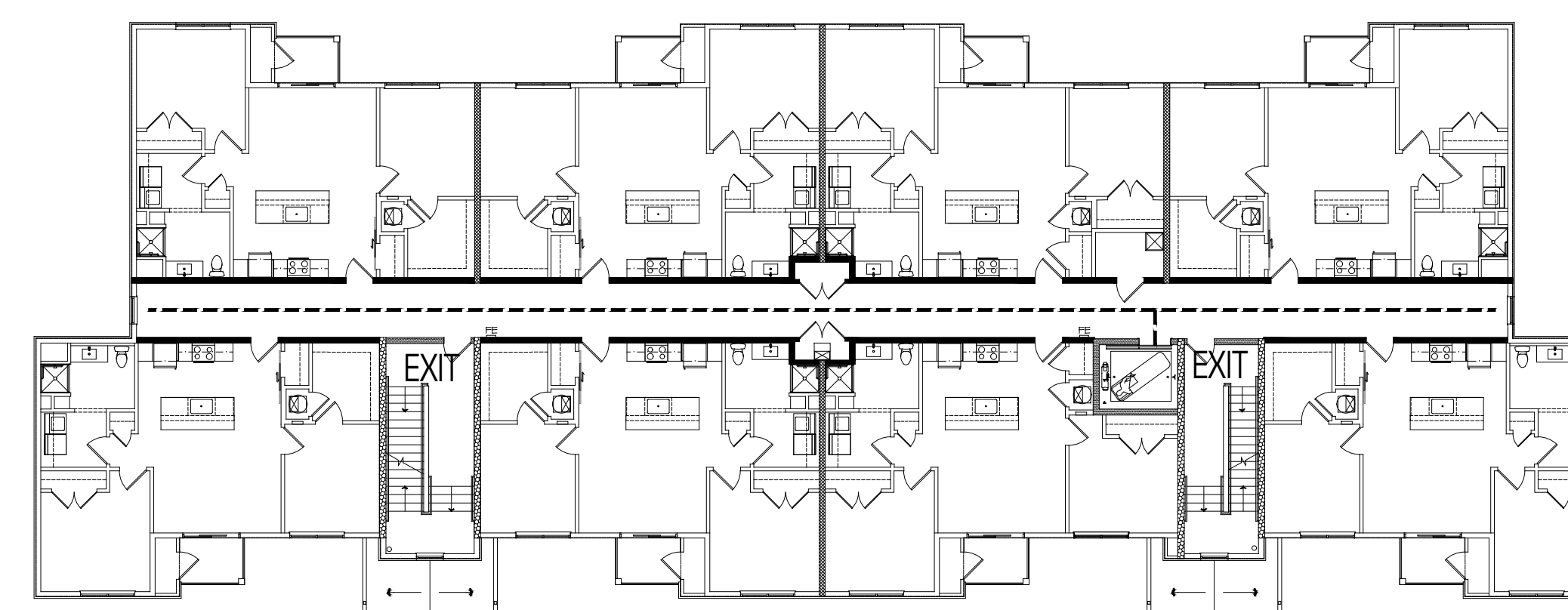
STRUCTURAL FRAME	0
EXTERIOR BEARING WALLS	0
INTERIOR BEARING WALLS	0
INTERIOR NONBEARING WALLS	0
FLOOR CONSTRUCTION	0
ROOF	0

WALLS SEPARATING UNITS - 5 HR PER SECTION 703.3
CORRIDOR WALLS - 5 HR PER TABLE 1020.1
DOORS IN UNIT CORRIDOR WALLS - 1/3 HR PER TABLE 716.5
STAIR SHAFT WALLS - 2 HR PER SECTION 1023.2
STAIR SHAFT DOORS - 15 HR PER TABLE 716.5
ELEVATOR SHAFT WALLS - 2 HR PER SECTION 711.4
ELEVATOR DOORS - 15 HR PER TABLE 716.5

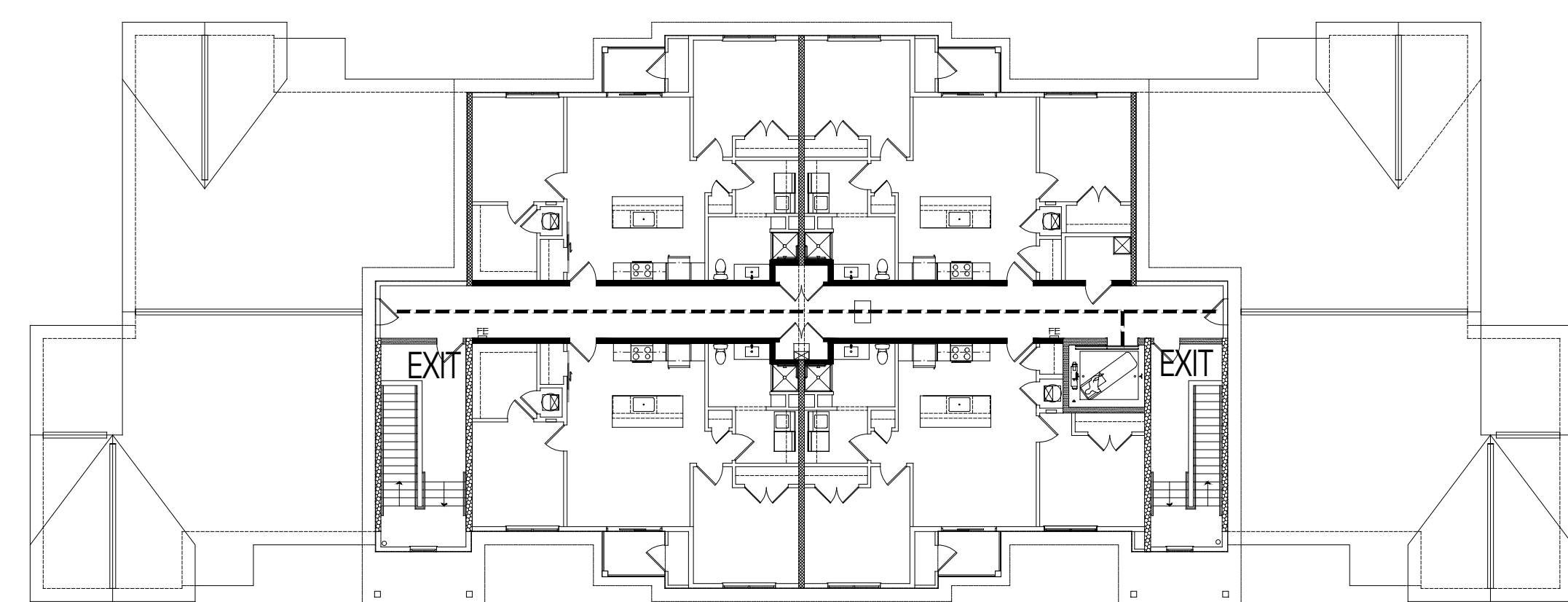
(1) TYPE 'A' ACCESSIBLE UNIT IS PROVIDED THE
REMAINING UNITS ARE ADAPTABLE, TYPE 'B' COMPLIANT.



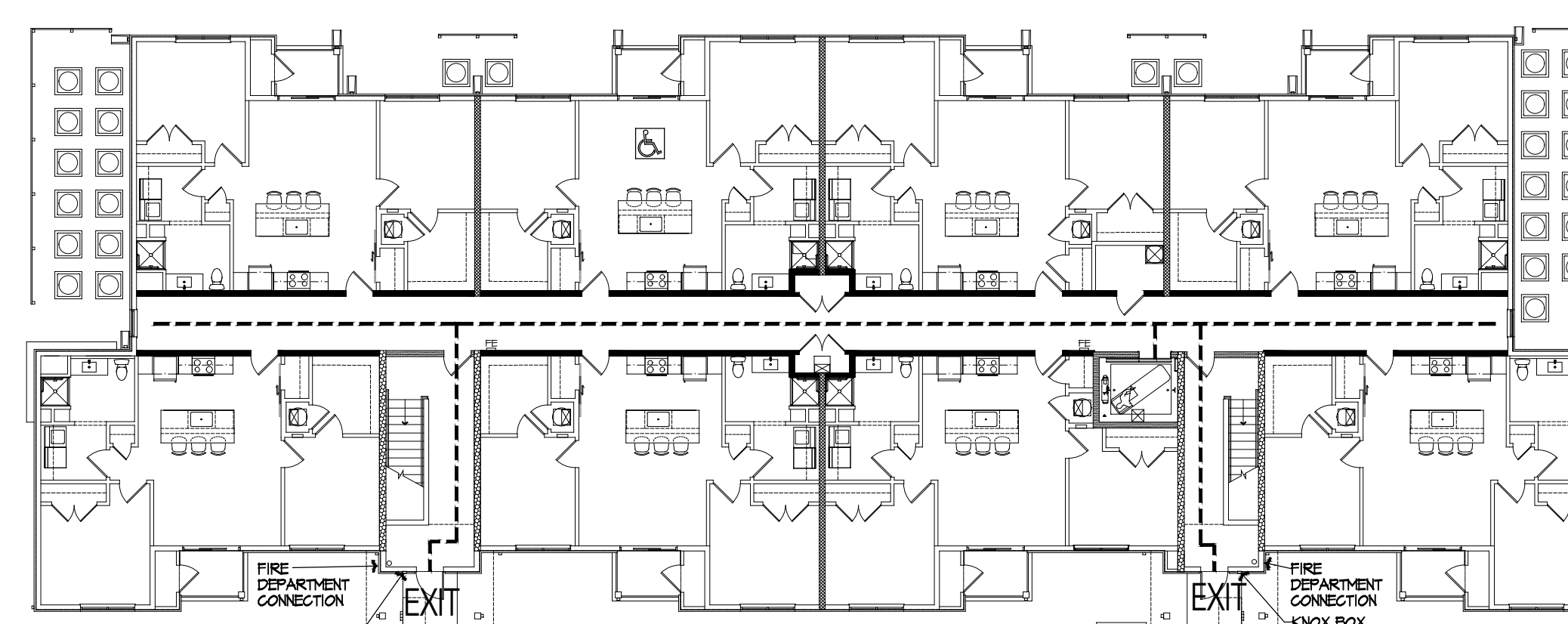
C9 ROOF PLAN
SCALE: 1/16" = 1'-0"
NORTH



C2 2ND & 3RD FLOOR PLAN (TYP.)
SCALE: 1/16" = 1'-0"
NORTH

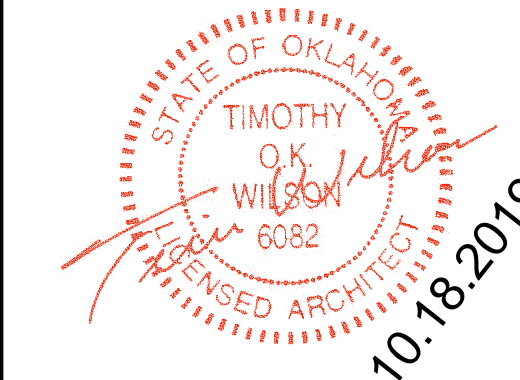


A9 4TH FLOOR PLAN
SCALE: 1/16" = 1'-0"
NORTH



A2 1ST FLOOR PLAN
SCALE: 1/16" = 1'-0"
NORTH
ACCESSIBLE ROUTE = - - - - -

SEAL
ARCHITECT - TIMOTHY O.K. WILSON
LICENSE NO. 6082



CODE ANALYSIS

ISSUE DATE:
OCTOBER 18, 2019

REVISIONS:

PROJECT NO.: 1902

A A0.1

Design No. L563 (Edited for Relevancy)

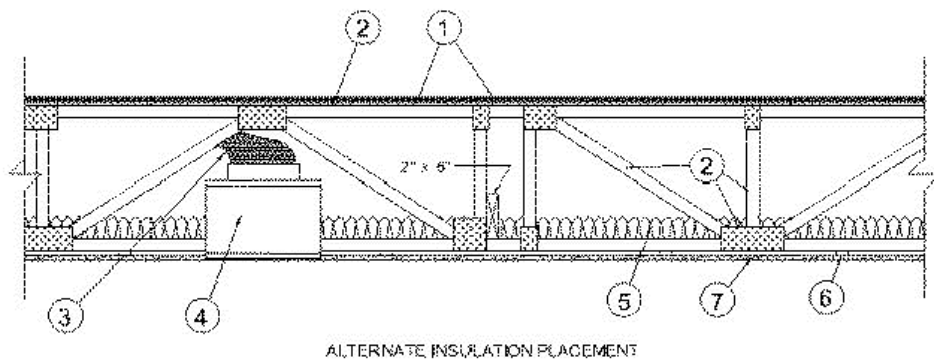
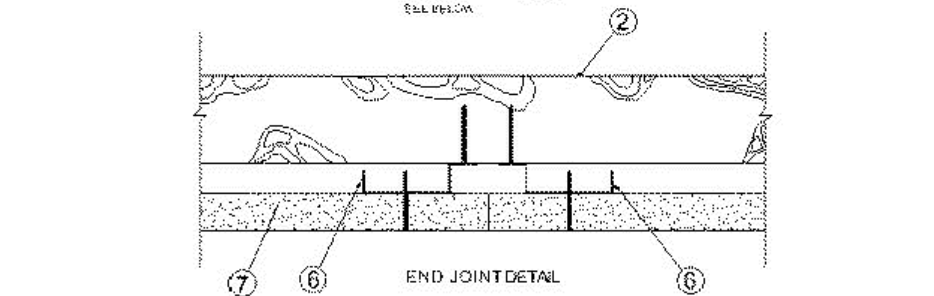
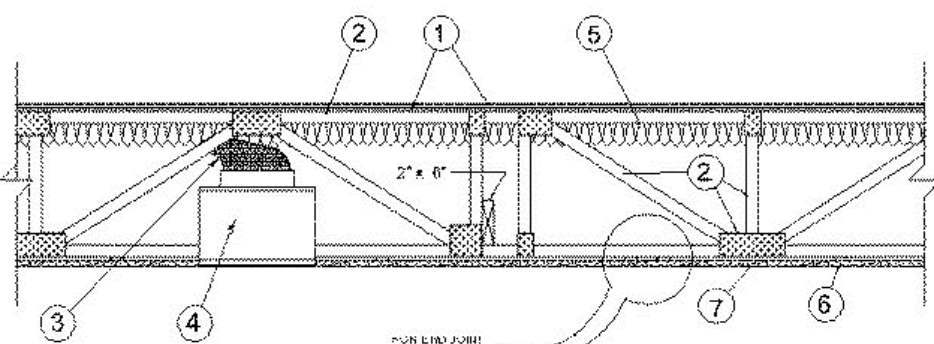
November 28, 2018

Unrestrained Assembly Rating - 1/2 Hr, 1 Hr (See Item 1, System 1)

Finish Rating - 25 Min (See Items 3 or 3A and 7), 20 Min (See Items 6E and 7A)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load reduction factor shall be used - See Guide BXUV or BXUV7

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



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

System No. 9

Subflooring - Min 23/32 in. thick T & G wood structural panels installed perpendicular to trusses with joints staggered 4 ft. Plywood or nonveneer APA rated panels secured to trusses with construction adhesive and No. 6d ring shank nails spaced 12 in. OC along each truss. TetraGRIP™ nails measuring 2-3/8 in. long, 0.113 in. diameter, 0.272 in. round head, and helically threaded shank with barbed features on the helix meeting ASTM F1667 and having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails. 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.

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

D10 FLOOR/ CEILING TYPE "A" - 1 HR SCALE: NONE

Design No. P563 (Edited for Relevancy)

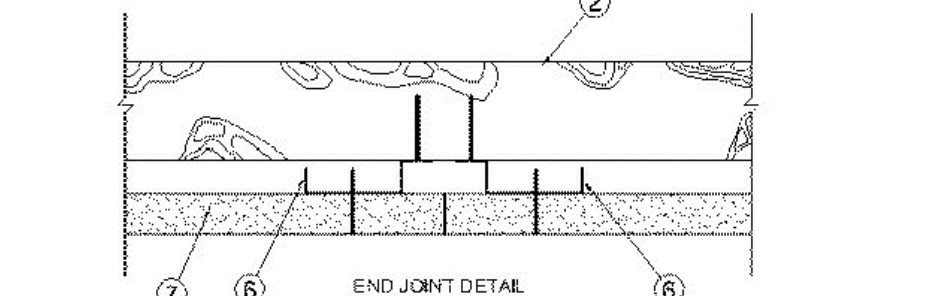
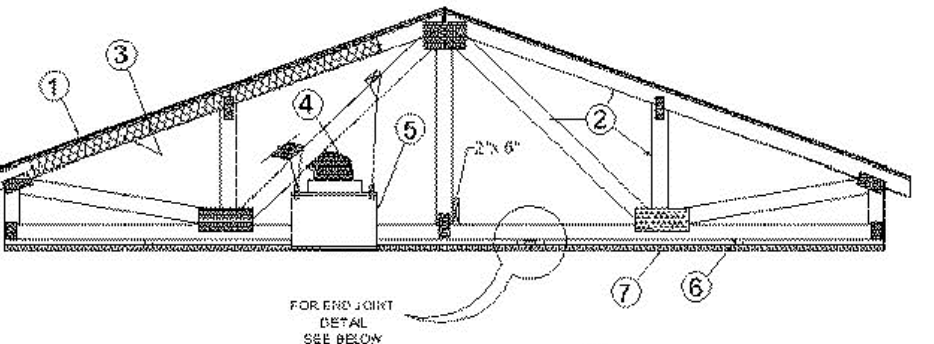
August 16, 2018

Unrestrained Assembly Rating - 1 Hr.

Finish Rating - 25 Min (See Items 3 or 3A and 7), 20 Min (See Items 3B and 7A)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load reduction factor shall be used - See Guide BXUV or BXUV7

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



1. Roofing System* - Any UL Class A, B or C Roofing System (TGFW) or Prepared Roof Covering (TFWZ) 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 with 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.

A10 ROOF/ CEILING TYPE "A" - 1 HR SCALE: NONE

MAXXON CORP - Type D-C, GC, GC2000, L-R, T-F, CT, SS

RAPID FLOOR SYSTEMS - Type RF, RFP, RFU, Orcrete

Floor Mat Materials* - (Optional) - Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.

MAXXON CORP - Type Acousti-Mat 1/8, Acousti-Mat 1/4, Acousti-Mat 1/4 Premium, Acousti-Mat 3/8, Acousti-Mat 3/8 Premium, Acousti-Mat 3/4, Acousti-Mat 3/4 Premium, Acousti-Top.

Floor Mat Reinforcement - (Optional) Refer to manufacturer's instructions regarding minimum thickness of floor topping for use with floor mat reinforcement.

Metal Lath - (Optional) 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd loose laid over the floor mat material.

Fiber Glass Reinforcement - (Optional) - 0.015 in. thick PVC coated non-woven fiberglass mesh, 0.368 lbs./sq. yd loose laid over the floor mat material.

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. when Ceiling Dampers* are not used. Min truss depth is 18 in. when Ceiling Dampers* is used. 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 tool 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.

3. Air Duct* (Optional) - Any UL Class 0 or Class 1 flexible air duct installed in accordance with the instructions provided by the damper manufacturer.

4. Ceiling Damper* (Optional). To be used with Air Duct Item 3. - For use with min 18 in. deep trusses Max plenum box size nom 19 in. long by 19 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper 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-BT, CRD 50-EA-BT, CRD 55-BT, CRD 55 EA-BT

4A. Alternate Ceiling Damper* - 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 50 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, CRD50-w X-BT-6

4B. Alternate Ceiling Damper* - 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 72 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

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. Ceiling Damper* - Maximum plenum box size nom. 19 in. long by 19 in. wide and 11-7/8 in. high fabricated from galvanized steel. Installed in accordance with the manufacturers installation instructions provided with the damper. Maximum damper openings not to exceed 128 sq. in. per 100 sq ft of ceiling area.

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

5A. Ceiling Damper* - Maximum plenum box size nom. 13 in. long by 13 in. wide and 11-7/8 in. high fabricated from galvanized steel. Installed in accordance with the manufacturers installation instructions provided with the damper. Maximum damper openings not to exceed 50 sq. in. per 100 sq ft of ceiling area.

HEATING AND COOLING PRODUCTS - Models 272-1, 272-2

LLOYD INDUSTRIES INC - Model CRD 50-BT-6, CRD 50-EA-BT-6, CRD 55-BT-6, CRD 55 EA-BT-6, CRD50-wX-BT-6.

5B. Ceiling Damper* - Maximum size ceiling outlet in plenum box nom. 12 in. long by 12 in. wide. Plenum box fabricated from galvanized steel. Installed in accordance with the manufacturers installation instructions provided with the damper. Maximum damper openings not to exceed 72 sq. in. per 100 sq ft of ceiling area.

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

5C. 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 128 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-EA-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

5D. Ceiling Damper* - (Optional) - For use with min 18 in. deep trusses Max plenum box size nom 15 in. long by 15 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 72 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 - Models 45-CRD-LT-BT and 45-CRD-LTD-BT

5E. Ceiling Damper* - (Optional) - For use with min 18 in. deep trusses Max size ceiling outlet in plenum box nom 10 in. long by 10 in. wide. Plenum box fabricated

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* - 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 128 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.

4D. Alternate Ceiling Damper* - For use with min 18 in. deep trusses Max plenum box size nom 15 in. long by 15 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 72 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 - Models 45-CRD-LT-BT and 45-CRD-LTD-BT

4E. Alternate Ceiling Damper* - For use with min 18 in. deep trusses Max size ceiling outlet in plenum box nom 10 in. long by 10 in. wide. Plenum box fabricated from galv steel. Aggregate damper openings shall not exceed 50 sq in. per 100 sq ft of ceiling area. Installed in accordance with the manufacturers installation instructions provided with the damper.

LLOYD INDUSTRIES INC - Model 45-LTD-95-BT-4

4F. Alternate Ceiling Damper* - For use with min 18 in. deep trusses Max plenum box size nom 19 in. long by 15 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 96 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 CRD50-w X-BT

4G. Alternate Ceiling Damper* - For use with min. 18 in. deep trusses. Max. nom area shall be 349 sq in. Max. overall length and width shall not exceed 18-11/16 in. by 18-11/16 in. with max. 16 in. by 16 in. register opening. Aggregate damper openings shall not exceed 175 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. An aluminum or steel grille (Item 9) shall be installed in accordance with installation instructions.

MIAMI TECH INC - Model Series RxCRD, RxCRDS or RxCRPD

4H. Alternate Ceiling Damper* - For use with min 18 in. deep trusses Max plenum box size nom 19 in. long by 19 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.

METAL-FAB INC - Models MSCD-HC and MRCD-HC

5. Batts and Blankets* - (Optional) - Glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. When no insulation is installed in the concealed space resilient channels (Item 6) are spaced 24 in. OC. When the resilient channels (Item 6) are spaced 16 in. OC, 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

from galv steel. Aggregate damper openings shall not exceed 50 sq in. per 100 sq ft of ceiling area. Installed in accordance with the manufacturers installation instructions provided with the damper.

LLOYD INDUSTRIES INC - Model 45-LTD-95-BT-4

5F. Alternate Ceiling Damper* - For use with min 18 in. deep trusses Max plenum box size nom 19 in. long by 15 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 96 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 CRD50-w X-BT

5G. Alternate Ceiling Damper* - For use with min. 18 in. deep trusses. Max. nom area shall be 349 sq in. Max. overall length and width shall not exceed 18-11/16 in. by 18-11/16 in. with max. 16 in. by 16 in. register opening. Aggregate damper openings shall not exceed 175 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. An aluminum or steel grille (Item 9) shall be installed in accordance with installation instructions.

MIAMI TECH INC - Model Series RxCRD, RxCRDS or RxCRPD

5H. Alternate Ceiling Damper* - For use with min 18 in. deep trusses Max plenum box size nom 19 in. long by 19 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.

METAL-FAB INC - Models MSCD-HC and MRCD-HC

6. Resilient Channels - Resilient channels formed of 25 MSG 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 butt joints (spaced 6 in. OC) as shown in the above illustration.

AMERICAN GYPSUM CO - Type AG-C

CGC INC - Types C, IP-X2, IPC-AR

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C - Type LGFC-C/A

NATIONAL GYPSUM CO - Types eXP-C, FSW-G, FSW-C, FSK-G, FSK-C

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

USG BORAL DRYWALL SFZ LLC - Type C

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

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.

6. Resilient Channels - Formed from min 25 MSG galv steel installed perpendicular to the trusses. When insulation (Item 5) is secured to the underside of the subfloor, the resilient channels are spaced 16 in. OC. When insulation (Items 5 or 5A) is applied over the resilient channel/gypsum panel ceiling membrane, the resilient channels are spaced 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 6 in. beyond each side edge of panel.

6B. Steel Framing Members* - (Not Shown) - As an alternate to Items 6 and 6A. a. Furring Channels - Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced 16 in. OC perpendicular to wood structural members. When insulation, Items 5 or 5A is applied over the furring channel/gypsum panel ceiling membrane, the furring channel spacing shall be reduced to 12 in. OC. Channels secured to trusses as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWC galvanized steel wire near each end of overlap.

b. Steel Framing Members* - Used to attach furring channels (Item a) to trusses (Item 2). Clips spaced 48 in. OC, and secured to the bottom chord of alternating trusses with one No. 8 x 2-1/2 in. coarse drywall screw through center grommet. When insulation, Items 5 or 5A is applied over the furring channel/gypsum panel ceiling membrane, the clip spacing shall be reduced to 24 in. OC and secured to consecutive trusses. Furring channels are friction fitted into clips. Adjoining channels are overlapped as described in Item a. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7.

PLITEQ INC - Type Genie Clip

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 or 5A) 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. When Steel Framing Members (Item 6A) are used, gypsum panels installed with long dimension perpendicular to cross tees with side joints centered along main runners and end joints centered along cross tees. Panels fastened to cross tees with 1 in. long Type S bugle-head screws spaced 8 in. OC in the field and along end joints. Panels fastened to main runners with 1 in. long Type S bugle-head screws spaced midway between cross tees. Screws along sides and ends of panels spaced 3/8 to 1/2 in. from board edge. End joints of panels shall be staggered with spacing between joints on adjacent panels not less than 2 ft OC. When Steel Framing Members (Item 6B) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long No. 6 Type S bugle-head steel screws spaced 12 in. OC in the field of the board. Screw spacing is reduced to 8 in. OC when insulation is applied over the furring channel/gypsum panel ceiling membrane. Gypsum board butted end joints shall be staggered minimum 16 in. within the assembly. At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 6 in. on each end. These additional furring channels shall be attached to underside of the truss with Genie clips as described in Item 6B. Screw spacing along the gypsum board butt joint shall be 6 in. OC. When Steel Framing Members (Item 6C) are used, gypsum panels installed with long dimensions perpendicular to furring channels. Panels attached to the furring channels using 1 in. long Type S bugle-head steel screws spaced 8 in. OC along butted end joints and in the field of the panel. Butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. Each end of each gypsum panel shall be supported by a single length of furring channel equal to the

width of the gypsum panel plus 6 in. on each end. The two support furring channels shall be spaced approximately 3-1/2 in. OC, and be attached to underside of the truss with one clip at each end of the channel. When Steel Framing Members (Item 6D) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 3 in. on each end joint. The two support furring channels shall be spaced approximately 3 in. in. from joint. Screw spacing along the gypsum board butt joint and along both additional channels shall be 8 in. OC. Additional screws shall be placed in the adjacent section of gypsum board into the aforementioned 3 in. extension of the extra butt joint channels as well as into the main channel that runs between. Butt joint furring channels shall be attached with one RESILMOUNT Sound Isolation Clip at each end of the channel. When Steel Framing Members (Item 6E) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the gypsum board butt joints, an additional single length of furring channel shall be installed and be spaced approximately 3 in. from the butt joint (6 in. from the continuous furring channels) to support the floating end of the gypsum board. Each of these shorter sections of furring channel shall extend one truss beyond the width of the gypsum panel and be attached to the adjacent trusses with one SonusClip at every truss involved with the butt joint.

AMERICAN GYPSUM CO - Type AG-C

CGC INC - Types C, IP-X2, IPC-AR

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C - Type LGFC-C/A

NATIONAL GYPSUM CO - Types eXP-C, FSW-G, FSW-C, FSK-G, FSK-C.

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

USG BORAL DRYWALL SFZ LLC - Type C

8. Finishing System - (Not Shown) - Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads. Nom 2 in. wide paper tape 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 board.

9. Grille - Aluminum or Steel grille, installed in accordance with the installation instructions provided with the ceiling damper.

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

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. Grille - Aluminum or Steel grille, installed in accordance with the installation instructions provided with the ceiling damper.

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



ARCHITECTURAL CORPORATION OKLAHOMA CERTIFICATE OF AUTHORITY NO. CA 02479

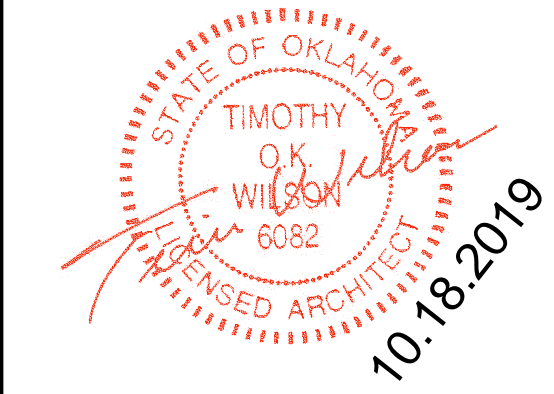
TIMBER RIDGE COTTAGES

SECTION 8, TOWNSHIP 18, RANGE 15

BROKEN ARROW, WAGONER COUNTY, OK

STARK WILSON DUNCAN ARCHITECTS INC. 315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T:616.531.1696 F:616.531.1978

SEAL ARCHITECT - TIMOTHY O.K. WILSON LICENSE NO. 6082



FIRE RATED ASSEMBLIES

ISSUE DATE: OCTOBER 18, 2019

REVISIONS:

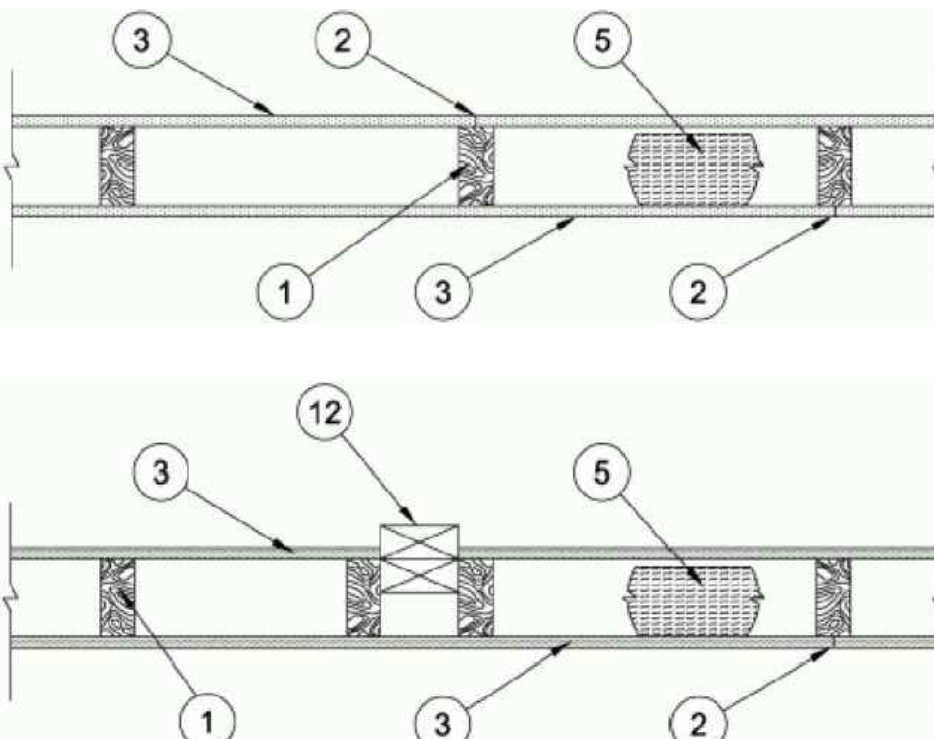
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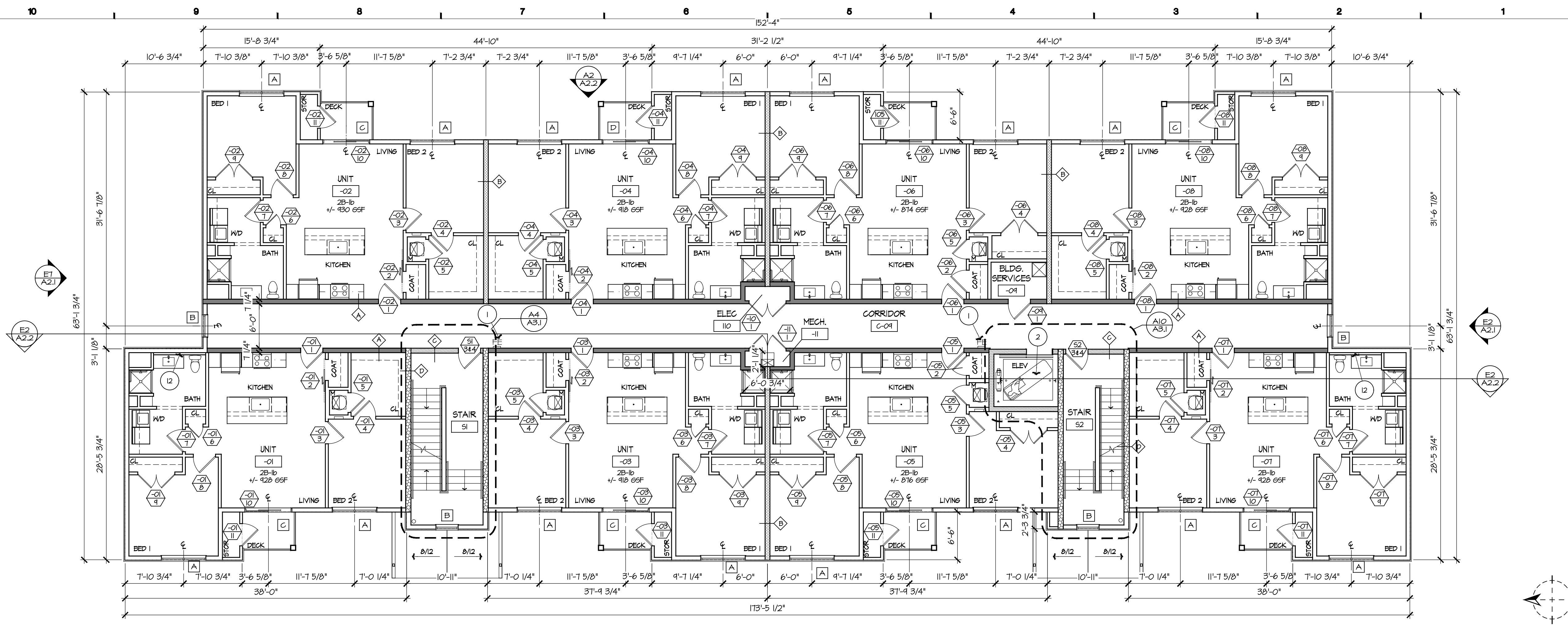
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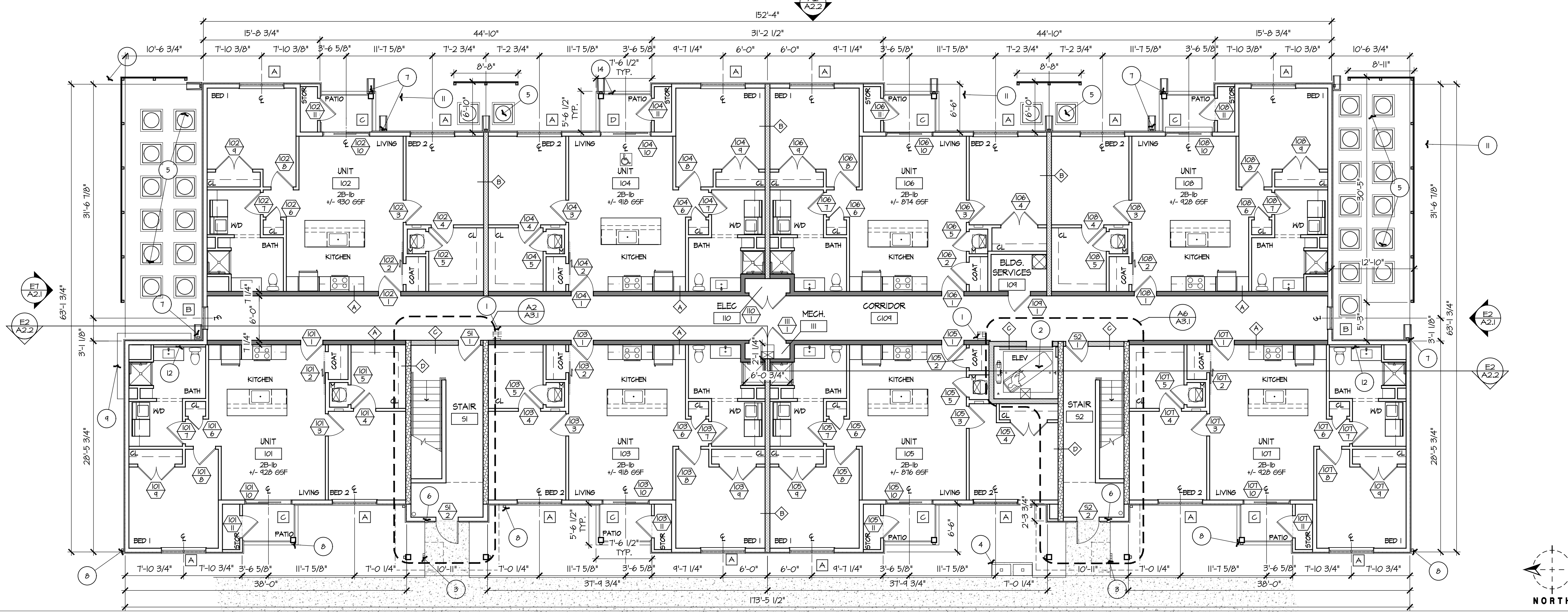
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<p>Design No. U305 (Edited for Relevancy) December 04, 2018</p> <p>Bearing Wall Rating -- 1 Hr Finish Rating -- See Items 3, 3A, 3D, 3E, 3F, 3G, 3H, 3J and 3L. STC Rating -- 56 (See Item 9)</p> <p>This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used -- See Guide BXUV or BXUV7</p> <p>* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.</p> 	<p>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 cleats 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 gypsum board, no greater than 2 in. from corner of gypsum board, max spacing 16 in. OC. Nailed to adjacent stud through tab using one No. 6d cement coated nail per fastener. Corners of wall board shall be nailed to top and bottom plate using No. 6d cement coated nails.</p> <p>5. Batts and Blankets* -- (Optional -- Required when Item 6A is used (RC-1)) -- Glass fiber or mineral wool insulation. Placed to completely or partially fill the stud cavities. When Item 6A is used, glass fiber or mineral wool insulation shall be friction-fitted to completely fill the stud cavities.</p> <p>CERTAINTEE CORP JOHNS MANVILLE KNAUF INSULATION LLC MAWSON INSULATION INC OWENS CORNING HT INC, DIV OF OWENS CORNING -- Corning Fiberglas Corp ROCK WOOL MANUFACTURING CO -- Delta Board ROCKWOOL -- Acoustical Fire Batts THERMAFIBER INC -- Type SAFB, SAFB FF</p> <p>5C. Batts and Blankets* -- Required for use with resilient channels, Item 7, 3 in. thick mineral wool batts. friction-fitted to fill interior of wall. THERMAFIBER INC -- Type SAFB, SAFB FF</p> <p>5D. Glass Fiber Insulation -- (As an alternate to Item 5C) -- 3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, friction-fitted to fill the interior of the wall. See Batts and Blankets (BKNV or BZIZ) Categories for names of Classified companies.</p> <p>7. Furring Channel -- Optional -- Not Shown -- For use on one side of the wall - Resilient channels, 25 MSG galv steel, spaced vertically 24 in. OC. Flange portion screw attached to one side of studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws. When resilient channels are used, insulation, Items 5C or 5D is required.</p> <p>8. Caulking and Sealants -- (Not Shown, Optional) -- A bead of acoustical sealant applied around the partition perimeter for sound control.</p> <p>9. STC Rating -- The STC Rating of the wall assembly is 56 when it is constructed as described by Items 1 through 6, except: A. Item 2, above -- Nailheads shall be covered with joint compound. B. Item 2, above -- Joints As described, shall be covered with fiber tape and joint compound. C. Item 5, above -- Batts and Blankets* The cavities formed by the studs shall be friction fit with R-19 unfaced fiberglass insulation batts measuring 6-1/4 in. thick and 15-1/4 in. wide. D. Item 6, above -- Steel Framing Members* Type RSIC-1 clips shall be used to attach gypsum board to studs on either side of the wall assembly. E. Item 8, above -- Caulking and Sealants (Not Shown) A bead of acoustical sealant shall be applied around the partition perimeter for sound control. F. Steel Corner Fasteners (Item 4). Fiber, Sprayed (Items 5A and 5B) and Steel Framing Members (Item 6A), not evaluated as alternatives for obtaining STC rating.</p> <p>12. Non-Bearing Wall Partition Intersection -- (Optional) -- Two nominal 2 by 4 in. studs or nominal 2 by 6 in. studs nailed together with two 3 in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.</p> <p>* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.</p>
<p>1. Wood Studs -- Nom 2 by 4 in. spaced 16 in. OC max, effectively firestopped.</p> <p>2. Joints and Nail-Heads -- Joints covered with joint compound and paper tape. Joint compound and paper tape may be omitted when square edge boards are used. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape. Nailheads exposed or covered with joint compound.</p> <p>3. Gypsum Board* -- 5/8 in. thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. When used in widths other than 48 in., gypsum panels are to be installed horizontally. For an alternate method of attachment of gypsum panels, refer to Items 6 through 6E. Steel Framing Members* When Items 6, 6B, 6C, 6D, or 6E. Steel Framing Members*, are used, gypsum panels attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.</p> <p>When Item 6A, Steel Framing Members*, is used, two layers of gypsum panels attached to furring channels. Base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC. Face layer attached to furring channels with 1-5/8 in. long Type S bugle-head steel screws spaced 12 in. OC. All joints in face layers staggered with joints in base layers. One layer of gypsum board attached to opposite side of wood stud without furring channels as described in Item 3.</p>	<p>12. Non-Bearing Wall Partition Intersection -- (Optional) -- Two nominal 2 by 4 in. studs or nominal 2 by 6 in. studs nailed together with two 3 in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.</p> <p>* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.</p>
<p>ACADIA DRYWALL SUPPLIES LTD -- Type X (finish rating 22 min), 5/8 Type X, Moisture Resistant Type X, Gypsum Sheathing Type X, Mold & Mildew Resistant Type X and Mold & Mildew Resistant AR Type X, Type Blueglass Exterior Sheathing</p> <p>AMERICAN GYPSUM CO -- Types AGX-1 (finish rating 23 min.), M-Glass (finish rating 23 min.), Type AGX-11 (finish rating 26 min), Type AGX-12 (finish rating 22 min), Type LightRoc (finish rating 23 min.) or Type AG-C</p> <p>BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO -- Type DBX-1 (finish rating 24 min)</p> <p>CERTAINTEE GYPSUM INC -- Type 1, Type SF3 (finish rating 20 min) or FRPC; Type C, Type X-2, Type X or Type X-1 (finish rating 26 min); Type EGRG or GlasRoc (finish rating 23 min), GlasRoc-2, Type Habito (finish rating 26 min).</p> <p>CGC INC -- Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min)</p> <p>CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C -- Type LGFC6A (finish rating 34 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX (finish rating 21 min), Type CLX (finish rating 24 min)</p> <p>GEORGIA-PACIFIC GYPSUM L L C -- Type 5 (finish rating 26 min), Type 6 (finish rating 23 min), Type 9 (finish rating 26 min), Type C (finish rating 26 min), Type DGG (finish rating 20 min), Type GPFS1 (finish rating 20 min), Type GPFS2 (finish rating 20 min), Type GPFS6 (finish rating 26 min), Type DS, Type DAP, Type DD (finish rating 20 min), Type DA, Type DAPC, Type LS (finish rating 23 min), Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, Type LWX (finish rating 22 min), Veneer Plaster Base-Type LWX (finish rating 22 min), Water Rated-Type LWX (finish rating 22 min), Sheathing Type-LWX (finish rating 22 min), Soffit-Type LWX (finish rating 22 min), Type DGLW (finish rating 22 min), Water Rated-Type DGLW (finish rating 22 min), Sheathing Type- DGLW (finish rating 22 min), Soffit-Type DGLW (finish rating 22 min), Type LWX (finish rating 22 min), Type LWX (finish rating 22 min), Veneer Plaster Base - Type LW2X (finish rating 22 min), Water Rated - Type LW2X (finish rating 22 min), Sheathing - Type LW2X (finish rating 22 min), Type DGL2W (finish rating 22 min), Water Rated - Type DGL2W (finish rating 22 min), Sheathing - Type DGL2W (finish rating 22 min)</p> <p>NATIONAL GYPSUM CO -- Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW-2 (finish rating 24 min), Type FSW-3 (finish rating 20 min), Type FSW-5 (finish rating 22 min), Type FSW-C (finish rating 20 min), Type FSK-C (finish rating 20 min), Type FSW-C (finish rating 20 min), Type FSMR-C, Type FSW-6 (finish rating 20 min), Type FSL (finish rating 24 min), Type FSW-8, Type FSLX (finish rating 21 min).</p> <p>NATIONAL GYPSUM CO -- Riyadh, Saudi Arabia -- Type FR, or WR.</p> <p>PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM -- Types C, PG-2 (finish rating 20 min), PG-3 (finish rating 20 min), Types PG-3W, PG-5W (finish rating 20 min), Type PG-4 (finish rating 20 min), Type PG-6 (finish rating 20 min), Types PG-9S, PG-5MS, PG-5MS, PCS-WRS (finish rating 20 min), Types PG-5, PG-9 (finish rating 26 min), PG-11 PG-13 (Nails increased to 2 in.), or Type PG-C</p> <p>PANEL REY S A -- Type GREX, PRX, PRC, PRC2; Types RHX, Guard Ray, MDX, ETX (finish rating 22 min)</p> <p>SIAM GYPSUM INDUSTRY (SARABURI) CO LTD -- Type EX-1 (finish rating 26 min)</p> <p>THAI GYPSUM PRODUCTS PCL -- Type C, Type X (finish rating 26 min)</p> <p>UNITED STATES GYPSUM CO -- Type AR (finish rating 24 min), Type C (finish rating 24 min), Type FRX-G (finish rating 29 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SCX (finish rating 24 min), Type SCX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type ULX (finish rating 20 min)</p> <p>USG BORAL DRYWALL SFZ LLC -- Type SGX (finish rating 24 min).</p> <p>USG MEXICO S A DE C V -- Type AR (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), SCX (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type ULX (finish rating 22 min)</p>	<p>1. Nailheads -- Exposed or covered with joint compound.</p> <p>2. Joints -- Exposed joints covered with joint compound and paper tape. Joint compound and paper tape may be omitted when square edge boards are used. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape.</p> <p>3. Nails -- 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam, 1/4 in. diam heads, and 8d cement coated nails 2-3/8 in. long, 0.113 in. shank diam, 9/32 in. diam heads.</p> <p>4. Gypsum Board* -- 5/8 in. thick, two layers applied either horizontally or vertically. Inner layer attached to studs with the 1-7/8 in. nails spaced 6 in. OC. Outer layer attached to studs over inner layer with the 2-3/8 in. long nails spaced 8 in. OC. Vertical joints located over studs. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side. When used in widths other than 48 in., gypsum board to be installed horizontally. When Steel Framing Members* (Item 6, 6A or 6B) are used, base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced max 24 in. OC; face layer attached with 1-5/8 in. long Type S bugle-head steel screws spaced max 12 in. OC.</p> <p>ACADIA DRYWALL SUPPLIES LTD -- Type X, 5/8 Type X, Moisture Resistant Type X, Gypsum Sheathing Type X, Mold & Mildew Resistant Type X and Mold & Mildew Resistant AR Type X, Type Blueglass Exterior Sheathing</p> <p>AMERICAN GYPSUM CO -- Types AGX-1, M-Glass, AG-C, AGX-11, LightRoc</p> <p>BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO -- Type DBX-1</p> <p>CERTAINTEE GYPSUM INC -- Types 1, FRPC, EGRG, GlasRoc, GlasRoc-2, Type C, Type X, Type X-1</p> <p>CGC INC -- Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX</p> <p>CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C -- Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD, LGLLX</p> <p>GEORGIA-PACIFIC GYPSUM L L C -- Types 5, 6, 9, C, DAP, DD, DA, DAPC, DGG, DS, GPFS6, LS, TG-C, Type X, Veneer Plaster Base-Type X, Water Rated-Type X, Sheathing Type-X, Soffit-Type X, GreenGlass Type X, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type- DGLW, Soffit-Type DGLW, Type LW2X, Veneer Plaster Base - Type LW2X, Water Rated - Type LW2X, Sheathing - Type LW2X, Soffit - Type LW2X, Type DGL2W, Water Rated - Type DGL2W, Sheathing - Type DGL2W</p> <p>NATIONAL GYPSUM CO -- Types eXP-C, FSK, FSK-C, FSK-G, FSW, FSW-3, FSW-5, FSW-6, FSW-8, FSW-C, FSW-G, FSMR-C, FSL</p> <p>PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM -- Types C, PG-2, PG-3, PG-3W, PG-4, PG-5, PG-5W, PG-SWS, PG-9, PG-11, PG-C or PGS-WRS</p> <p>PANEL REY S A -- Types PRC, PRC2, PRX, RHX, MDX, ETX, GREX</p> <p>SIAM GYPSUM INDUSTRY (SARABURI) CO LTD -- Type EX-1</p> <p>THAI GYPSUM PRODUCTS PCL -- Type C or Type X</p> <p>UNITED STATES GYPSUM CO -- Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX</p> <p>USG BORAL DRYWALL SFZ LLC -- Types C, SCX, USGX</p> <p>USG MEXICO S A DE C V -- Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX</p> <p>* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.</p> <p>Last Updated on 2018-03-05</p>
<p>CGC INC -- Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min)</p> <p>CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C -- Type LGFC6A (finish rating 34 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX (finish rating 21 min), Type CLX (finish rating 24 min)</p> <p>GEORGIA-PACIFIC GYPSUM L L C -- Type 5 (finish rating 26 min), Type 6 (finish rating 23 min), Type 9 (finish rating 26 min), Type C (finish rating 26 min), Type DGG (finish rating 20 min), Type GPFS1 (finish rating 20 min), Type GPFS2 (finish rating 20 min), Type GPFS6 (finish rating 26 min), Type DS, Type DAP, Type DD (finish rating 20 min), Type DA, Type DAPC, Type LS (finish rating 23 min), Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, Type LWX (finish rating 22 min), Veneer Plaster Base-Type LWX (finish rating 22 min), Water Rated-Type LWX (finish rating 22 min), Sheathing Type-LWX (finish rating 22 min), Soffit-Type LWX (finish rating 22 min), Type DGLW (finish rating 22 min), Water Rated-Type DGLW (finish rating 22 min), Sheathing Type- DGLW (finish rating 22 min), Soffit-Type DGLW (finish rating 22 min), Type LWX (finish rating 22 min), Type LWX (finish rating 22 min), Veneer Plaster Base - Type LW2X (finish rating 22 min), Water Rated - Type LW2X (finish rating 22 min), Sheathing - Type LW2X (finish rating 22 min), Type DGL2W (finish rating 22 min), Water Rated - Type DGL2W (finish rating 22 min), Sheathing - Type DGL2W (finish rating 22 min)</p> <p>NATIONAL GYPSUM CO -- Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW-2 (finish rating 24 min), Type FSW-3 (finish rating 20 min), Type FSW-5 (finish rating 22 min), Type FSW-C (finish rating 20 min), Type FSK-C (finish rating 20 min), Type FSW-C (finish rating 20 min), Type FSMR-C, Type FSW-6 (finish rating 20 min), Type FSL (finish rating 24 min), Type FSW-8, Type FSLX (finish rating 21 min).</p> <p>NATIONAL GYPSUM CO -- Riyadh, Saudi Arabia -- Type FR, or WR.</p> <p>PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM -- Types C, PG-2 (finish rating 20 min), PG-3 (finish rating 20 min), Types PG-3W, PG-5W (finish rating 20 min), Type PG-4 (finish rating 20 min), Type PG-6 (finish rating 20 min), Types PG-9S, PG-5MS, PG-5MS, PCS-WRS (finish rating 20 min), Types PG-5, PG-9 (finish rating 26 min), PG-11 PG-13 (Nails increased to 2 in.), or Type PG-C</p> <p>PANEL REY S A -- Type GREX, PRX, PRC, PRC2; Types RHX, Guard Ray, MDX, ETX (finish rating 22 min)</p> <p>SIAM GYPSUM INDUSTRY (SARABURI) CO LTD -- Type EX-1 (finish rating 26 min)</p> <p>THAI GYPSUM PRODUCTS PCL -- Type C, Type X (finish rating 26 min)</p> <p>UNITED STATES GYPSUM CO -- Type AR (finish rating 24 min), Type C (finish rating 24 min), Type FRX-G (finish rating 29 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SCX (finish rating 24 min), Type SCX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type ULX (finish rating 20 min)</p> <p>USG BORAL DRYWALL SFZ LLC -- Type SGX (finish rating 24 min).</p> <p>USG MEXICO S A DE C V -- Type AR (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), SCX (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type ULX (finish rating 22 min)</p>	<p>1. Nailheads -- Exposed or covered with joint compound.</p> <p>2. Joints -- Exposed joints covered with joint compound and paper tape. Joint compound and paper tape may be omitted when square edge boards are used. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape.</p> <p>3. Nails -- 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam, 1/4 in. diam heads, and 8d cement coated nails 2-3/8 in. long, 0.113 in. shank diam, 9/32 in. diam heads.</p> <p>4. Gypsum Board* -- 5/8 in. thick, two layers applied either horizontally or vertically. Inner layer attached to studs with the 1-7/8 in. nails spaced 6 in. OC. Outer layer attached to studs over inner layer with the 2-3/8 in. long nails spaced 8 in. OC. Vertical joints located over studs. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side. When used in widths other than 48 in., gypsum board to be installed horizontally. When Steel Framing Members* (Item 6, 6A or 6B) are used, base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced max 24 in. OC; face layer attached with 1-5/8 in. long Type S bugle-head steel screws spaced max 12 in. OC.</p> <p>ACADIA DRYWALL SUPPLIES LTD -- Type X, 5/8 Type X, Moisture Resistant Type X, Gypsum Sheathing Type X, Mold & Mildew Resistant Type X and Mold & Mildew Resistant AR Type X, Type Blueglass Exterior Sheathing</p> <p>AMERICAN GYPSUM CO -- Types AGX-1, M-Glass, AG-C, AGX-11, LightRoc</p> <p>BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO -- Type DBX-1</p> <p>CERTAINTEE GYPSUM INC -- Types 1, FRPC, EGRG, GlasRoc, GlasRoc-2, Type C, Type X, Type X-1</p> <p>CGC INC -- Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX</p> <p>CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C -- Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD, LGLLX</p> <p>GEORGIA-PACIFIC GYPSUM L L C -- Types 5, 6, 9, C, DAP, DD, DA, DAPC, DGG, DS, GPFS6, LS, TG-C, Type X, Veneer Plaster Base-Type X, Water Rated-Type X, Sheathing Type-X, Soffit-Type X, GreenGlass Type X, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type- DGLW, Soffit-Type DGLW, Type LW2X, Veneer Plaster Base - Type LW2X, Water Rated - Type LW2X, Sheathing - Type LW2X, Soffit - Type LW2X, Type DGL2W, Water Rated - Type DGL2W, Sheathing - Type DGL2W</p> <p>NATIONAL GYPSUM CO -- Types eXP-C, FSK, FSK-C, FSK-G, FSL, FSMR-C, FSW-2, FSW-3, FSW-C, FSW-G, FSW-8</p> <p>PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM -- Types C, PG-3, PG-4, PG-5, PG-6, PG-9, PG-C, PG-11, PCS-WRS (Finish Rating 21 minutes)</p> <p>PANEL REY S A -- Types PRC, PRC2</p> <p>SIAM GYPSUM INDUSTRY (SARABURI) CO LTD -- Type EX-1</p> <p>THAI GYPSUM PRODUCTS PCL -- Type C, Type X</p> <p>UNITED STATES GYPSUM CO -- Types C, IP-X1, IP-X2, IPC-AR, SCX, WRX</p> <p>USG BORAL DRYWALL SFZ LLC -- Type C, PG-3, PG-4, PG-5, PG-6, PG-9, PG-C, PG-11, PCS-WRS (Finish Rating 21 minutes)</p> <p>PANEL REY S A -- Types PRC, PRC2</p> <p>SIAM GYPSUM INDUSTRY (SARABURI) CO LTD -- Type EX-1</p> <p>THAI GYPSUM PRODUCTS PCL -- Type C, Type X</p> <p>UNITED STATES GYPSUM CO -- Types C, IP-X1, IP-X2, IPC-AR, SCX, WRX</p> <p>USG BORAL DRYWALL SFZ LLC -- Types C, SCX</p> <p>USG MEXICO S A DE C V -- Types C, IP-X1, IP-X2, IPC-AR, SCX, WRX</p> <p>* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.</p> <p>Last Updated on 2018-03-06</p>
<p>CGC INC -- Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min)</p> <p>CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C -- Type LGFC6A (finish rating 34 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX (finish rating 21 min), Type CLX (finish rating 24 min)</p> <p>GEORGIA-PACIFIC GYPSUM L L C -- Type 5 (finish rating 26 min), Type 6 (finish rating 23 min), Type 9 (finish rating 26 min), Type C (finish rating 26 min), Type DGG (finish rating 20 min), Type GPFS1 (finish rating 20 min), Type GPFS2 (finish rating 20 min), Type GPFS6 (finish rating 26 min), Type DS, Type DAP, Type DD (finish rating 20 min), Type DA, Type DAPC, Type LS (finish rating 23 min), Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, Type LWX (finish rating 22 min), Veneer Plaster Base-Type LWX (finish rating 22 min), Water Rated-Type LWX (finish rating 22 min), Sheathing Type-LWX (finish rating 22 min), Soffit-Type LWX (finish rating 22 min), Type DGLW (finish rating 22 min), Water Rated-Type DGLW (finish rating 22 min), Sheathing Type- DGLW (finish rating 22 min), Soffit-Type DGLW (finish rating 22 min), Type LWX (finish rating 22 min), Type LWX (finish rating 22 min), Veneer Plaster Base - Type LW2X (finish rating 22 min), Water Rated - Type LW2X (finish rating 22 min), Sheathing - Type LW2X (finish rating 22 min), Type DGL2W (finish rating 22 min), Water Rated - Type DGL2W (finish rating 22 min), Sheathing - Type DGL2W (finish rating 22 min)</p> <p>NATIONAL GYPSUM CO -- Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW-2 (finish rating 24 min), Type FSW-3 (finish rating 20 min), Type FSW-5 (finish rating 22 min), Type FSW-C (finish rating 20 min), Type FSK-C (finish rating 20 min), Type FSW-C (finish rating 20 min), Type FSMR-C, Type FSW-6 (finish rating 20 min), Type FSL (finish rating 24 min), Type FSW-8, Type FSLX (finish rating 21 min).</p> <p>NATIONAL GYPSUM CO -- Riyadh, Saudi Arabia -- Type FR, or WR.</p> <p>PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM -- Types C, PG-2 (finish rating 20 min), PG-3 (finish rating 20 min), Types PG-3W, PG-5W (finish rating 20 min), Type PG-4 (finish rating 20 min), Type PG-6 (finish rating 20 min), Types PG-9S, PG-5MS, PG-5MS, PCS-WRS (finish rating 20 min), Types PG-5, PG-9 (finish rating 26 min), PG-11 PG-13 (Nails increased to 2 in.), or Type PG-C</p> <p>PANEL REY S A -- Type GREX, PRX, PRC, PRC2; Types RHX, Guard Ray, MDX, ETX (finish rating 22 min)</p> <p>SIAM GYPSUM INDUSTRY (SARABURI) CO LTD -- Type EX-1 (finish rating 26 min)</p> <p>THAI GYPSUM PRODUCTS PCL -- Type C, Type X (finish rating 26 min)</p> <p>UNITED STATES GYPSUM CO -- Type AR (finish rating 24 min), Type C (finish rating 24 min), Type FRX-G (finish rating 29 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SCX (finish rating 24 min), Type SCX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type ULX (finish rating 20 min)</p> <p>USG BORAL DRYWALL SFZ LLC -- Type SGX (finish rating 24 min).</p> <p>USG MEXICO S A DE C V -- Type AR (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), SCX (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type ULX (finish rating 22 min)</p>	<p>1. Nailheads -- Exposed or covered with joint compound.</p> <p>2. Joints -- Exposed joints covered with joint compound and paper tape. Joint compound and paper tape may be omitted when square edge boards are used. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape.</p> <p>3. Nails -- 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam, 1/4 in. diam heads, and 8d cement coated nails 2-3/8 in. long, 0.113 in. shank diam, 9/32 in. diam heads.</p> <p>4. Gypsum Board* -- 5/8 in. thick, two layers applied either horizontally or vertically. Inner layer attached to studs with the 1-7/8 in. nails spaced 6 in. OC. Outer layer attached to studs over inner layer with the 2-3/8 in. long nails spaced 8 in. OC. Vertical joints located over studs. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side. When used in widths other than 48 in., gypsum board to be installed horizontally. When Steel Framing Members* (Item 6, 6A or 6B) are used, base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced max 24 in. OC; face layer attached with 1-5/8 in. long Type S bugle-head steel screws spaced max 12 in. OC.</p> <p>ACADIA DRYWALL SUPPLIES LTD -- Type X, 5/8 Type X, Moisture Resistant Type X, Gypsum Sheathing Type X, Mold & Mildew Resistant Type X and Mold & Mildew Resistant AR Type X, Type Blueglass Exterior Sheathing</p> <p>AMERICAN GYPSUM CO -- Types AGX-1, M-Glass, AG-C, AGX-11, LightRoc</p> <p>BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO -- Type DBX-1</p> <p>CERTAINTEE GYPSUM INC -- Types 1, FRPC, EGRG, GlasRoc, GlasRoc-2, Type C, Type X, Type X-1</p> <p>CGC INC -- Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX</p> <p>CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C -- Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD, LGLLX</p> <p>GEORGIA-PACIFIC GYPSUM L L C -- Types 5, 6, 9, C, DAP, DD, DA, DAPC, DGG, DS, GPFS6, LS, TG-C, Type X, Veneer Plaster Base-Type X, Water Rated-Type X, Sheathing Type-X, Soffit-Type X, GreenGlass Type X, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type- DGLW, Soffit-Type DGLW, Type LW2X, Veneer Plaster Base - Type LW2X, Water Rated - Type LW2X, Sheathing - Type LW2X, Soffit - Type LW2X, Type DGL2W, Water Rated - Type DGL2W, Sheathing - Type DGL2W</p> <p>NATIONAL GYPSUM CO -- Types eXP-C, FSK, FSK-C, FSK-G, FSL, FSMR-C, FSW-2, FSW-3, FSW-C, FSW-G, FSW-8</p> <p>PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM -- Types C, PG-2, PG-3, PG-4, PG-5, PG-6, PG-9, PG-C, PG-11, PCS-WRS (Finish Rating 21 minutes)</p> <p>PANEL REY S A -- Types PRC, PRC2</p> <p>SIAM GYPSUM INDUSTRY (SARABURI) CO LTD -- Type EX-1</p> <p>THAI GYPSUM PRODUCTS PCL -- Type C, Type X</p> <p>UNITED STATES GYPSUM CO -- Types C, IP-X1, IP-X2, IPC-AR, SCX, WRX</p> <p>USG BORAL DRYWALL SFZ LLC -- Type C, SCX</p> <p>USG MEXICO S A DE C V -- Types C, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX</p> <p>* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.</p> <p>Last Updated on 2018-03-06</p>
<p>CGC INC -- Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min)</p> <p>CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C -- Type LGFC6A (finish rating 34 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX (finish rating 21 min), Type CLX (finish rating 24 min)</p> <p>GEORGIA-PACIFIC GYPSUM L L C -- Type 5 (finish rating 26 min), Type 6 (finish rating 23 min), Type 9 (finish rating 26 min), Type C (finish rating 26 min), Type DGG (finish rating 20 min), Type GPFS1 (finish rating 20 min), Type GPFS2 (finish rating 20 min), Type GPFS6 (finish rating 26 min), Type DS, Type DAP, Type DD (finish rating 20 min), Type DA, Type DAPC, Type LS (finish rating 23 min), Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, Type LWX (finish rating 22 min), Veneer Plaster Base-Type LWX (finish rating 22 min), Water Rated-Type LWX (finish rating 22 min), Sheathing Type-LWX (finish rating 22 min), Soffit-Type LWX (finish rating 22 min), Type DGLW (finish rating 22 min), Water Rated-Type DGLW (finish rating 22 min), Sheathing Type- DGLW (finish rating 22 min), Soffit-Type DGLW (finish rating 22 min), Type LWX (finish rating 22 min), Type LWX (finish rating 22 min), Veneer Plaster Base - Type LW2X (finish rating 22 min), Water Rated - Type LW2X (finish rating 22 min), Sheathing - Type LW2X (finish rating 22 min), Type DGL2W (finish rating 22 min), Water Rated - Type DGL2W (finish rating 22 min), Sheathing - Type DGL2W (finish rating 22 min)</p> <p>NATIONAL GYPSUM CO -- Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW-2 (finish rating 24 min), Type FSW-3 (finish rating 20 min), Type FSW-5 (finish rating 22 min), Type FSW-C (finish rating 20 min), Type FSK-C (finish rating 20 min), Type FSW-C (finish rating 20 min), Type FSMR-C, Type FSW-6 (finish rating 20 min), Type FSL (finish rating 24 min), Type FSW-8, Type FSLX (finish rating 21 min).</p> <p>NATIONAL GYPSUM CO -- Riyadh, Saudi Arabia -- Type FR, or WR.</p> <p>PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM -- Types C, PG-2 (finish rating 20 min), PG-3 (finish rating 20 min), Types PG-3W, PG-5W (finish rating 20 min), Type PG-4 (finish rating 20 min), Type PG-6 (finish rating 20 min), Types PG-9S, PG-5MS, PG-5MS, PCS-WRS (finish rating 20 min), Types PG-5, PG-9 (finish rating 26 min), PG-11 PG-13 (Nails increased to 2 in.), or Type PG-C</p> <p>PANEL REY S A -- Type GREX, PRX, PRC, PRC2; Types RHX, Guard Ray, MDX, ETX (finish rating 22 min)</p> <p>SIAM GYPSUM INDUSTRY (SARABURI) CO LTD -- Type EX-1 (finish rating 26 min)</p> <p>THAI GYPSUM PRODUCTS PCL -- Type C, Type X (finish rating 26 min)</p> <p>UNITED STATES GYPSUM CO -- Type AR (finish rating 24 min), Type C (finish rating 24 min), Type FRX-G (finish rating 29 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SCX (finish rating 24 min), Type SCX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type ULX (finish rating 20 min)</p> <p>USG BORAL DRYWALL SFZ LLC -- Type SGX (finish rating 24 min).</p> <p>USG MEXICO S A DE C V -- Type AR (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), SCX (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type ULX (finish rating 22 min)</p>	<p>1. Nailheads -- Exposed or covered with joint compound.</p> <p>2. Joints -- Exposed joints covered with joint compound and paper tape. Joint compound and paper tape may be omitted when square edge boards are used. As an alternate,</p>

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G2 2ND & 3RD FLOOR PLAN (TYP.)
 SCALE: 1/8" = 1'-0"



A2 1ST FLOOR PLAN
 SCALE: 1/8" = 1'-0"

KEYNOTES

- SEMI-RECESSED FIRE EXTINGUISHER CABINET, 10443 & 10446.
- ELEVATOR, 14200.
- EXTERIOR ENTRY SECURITY SYSTEM, RE. DOOR SCHEDULE & ELECTRICAL.
- EXTERIOR MAIL BOXES, SALSBERY INDUSTRIES, (I) MODEL # 3512 (2 BOXES) & (II) MODEL # 3516 (6 BOXES), COLOR AS SELECTED BY ARCHITECT, RE. CIVIL.
- HEAT PUMP CONDENSERS, RE. MECHANICAL.
- RECESSED KNOX BOX, LOCATION AS PER FIRE MARSHALL.
- DOWNSPOUT W/ FLASHBLOCK, TYP. ON SIDES AND REAR OF BUILDING.
- DOWNSPOUT TIED INTO UNDERGROUND STORM LINE, RE. CIVIL, TYP. ON FRONT OF BUILDING.
- ELECTRICAL METER BANK, RE. ELECTRICAL.
- 36" x 36" FIRE RATED INSULATED ACCESS DOOR W/ LOCK, PRIMED FOR PAINTING, MOUNT 12" AFF.
- 4'-0" TALL VINYL FENCE, COLOR AS SELECTED BY ARCHITECT.
- FURR OUT EXTERIOR WALL W/ 2"x4" STUD & 5/8" GYP. BD. FOR PLUMBING LINES.
- RAILING IN ACCESSIBLE UNIT 104 TO BE INSTALLED @ OUTSIDE EDGE OF COLUMN.

LEGEND

- (I) — PLAN NOTE
 - (BD) — DOOR DESIGNATION
 - (W) — WINDOW DESIGNATION
 - (F) — WALL DESIGNATION
 - (E) — INTERIOR ELEVATION
- ASRS(A4.1)
 REV. 5/18

- A. ALL INTERIOR DIMENSIONS ARE FROM FACE OF GYP. BD. TO FACE OF GYP. BD.
- B. ALL EXTERIOR DIMENSIONS ARE FROM EDGE OF CONCRETE SLAB AND/OR EXTERIOR FACE OF WOOD STUD.

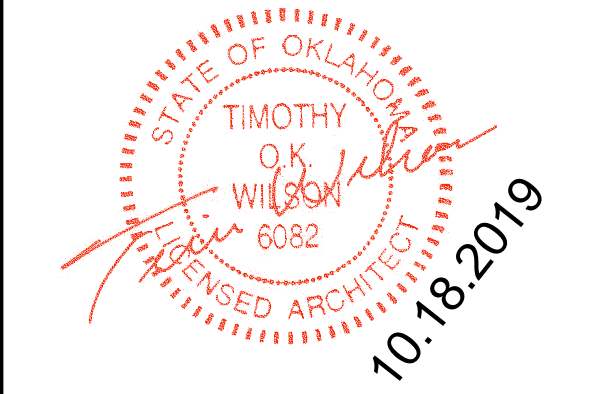


ARCHITECTURAL CORPORATION
 OKLAHOMA CERTIFICATE
 OF AUTHORITY NO. CA 02479

TIMBER RIDGE COTTAGES
 SECTION 8, TOWNSHIP 18, RANGE 15
 BROKEN ARROW, WAGONER COUNTY, OK

315 NICHOLS RD. STE 228 - KANSAS CITY, MO 64112 - T: 816.531.1996 F: 816.531.1978

SEAL
 ARCHITECT - TIMOTHY O.K. WILSON
 LICENSE NO. 6082



APARTMENT BUILDING
 1ST & 2ND / 3RD
 FLOOR PLANS


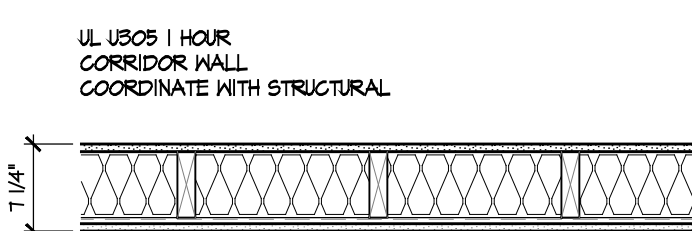

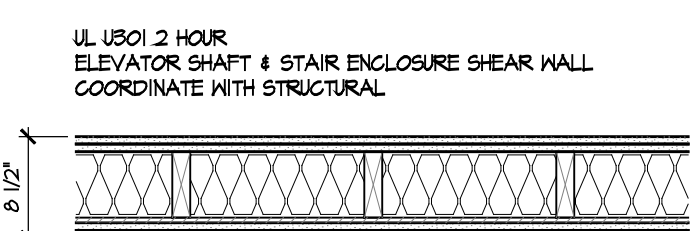

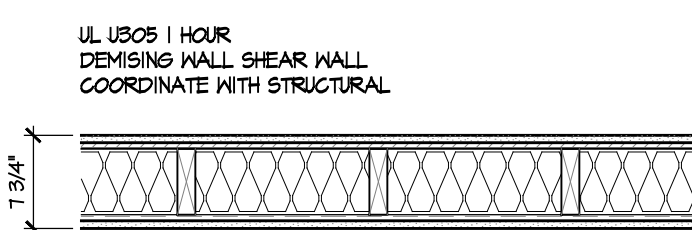

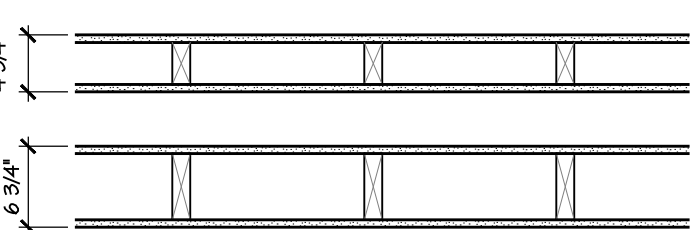

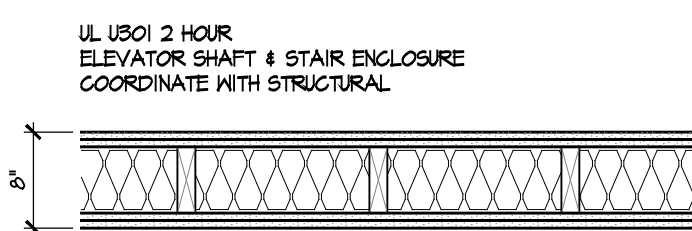

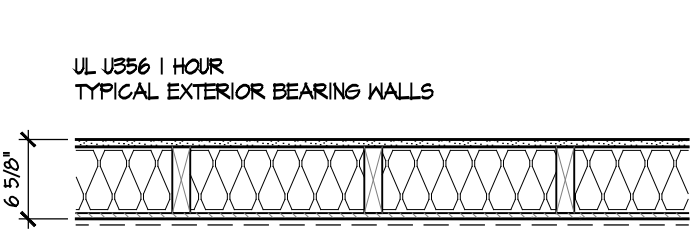
ISSUE DATE:
 OCTOBER 18, 2019
 REVISIONS:

PROJECT NO.: 1902

AA1.1

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WALL TYPES

<p>A</p> <p>WALL HATCH PATTERN ON PLAN</p>  <p>UL US05 1 HOUR CORRIDOR WALL COORDINATE WITH STRUCTURAL</p>  <p>CORRIDOR 5/8" FIRE RATED GYPSUM BOARD 2X6 WOOD STUDS AT 16" O.C. FULL DEPTH INSULATION 1/2" RESILIENT CHANNEL 5/8" FIRE RATED GYPSUM BOARD UNIT INTERIOR</p>	<p>D</p> <p>WALL HATCH PATTERN ON PLAN</p>  <p>UL US01 2 HOUR ELEVATOR SHAFT & STAIR ENCLOSURE SHEAR WALL COORDINATE WITH STRUCTURAL</p>  <p>SHAFT/ ENCLOSURE EXTERIOR 2 LAYERS OF 5/8" FIRE RATED GYPSUM BOARD 2X6 WOOD STUDS AT 16" O.C. FULL DEPTH INSULATION 7/8" OSB 2 LAYERS OF 5/8" FIRE RATED GYPSUM BOARD SHAFT/ ENCLOSURE INTERIOR</p>
<p>B</p> <p>WALL HATCH PATTERN ON PLAN</p>  <p>UL US05 1 HOUR DEMISING WALL SHEAR WALL COORDINATE WITH STRUCTURAL</p>  <p>UNIT INTERIOR 5/8" FIRE RATED GYPSUM BOARD 7/8" OSB 2X6 WOOD STUDS AT 16" O.C. FULL DEPTH INSULATION 1/2" RESILIENT CHANNEL 5/8" FIRE RATED GYPSUM BOARD UNIT INTERIOR</p>	<p>E</p> <p>WALL HATCH PATTERN ON PLAN</p>  <p>TYPICAL UNIT INTERIOR WALLS (NON-RATED)</p>  <p>UNIT INTERIOR 5/8" GYPSUM BOARD 2X4 WOOD STUDS AT 16" O.C. 5/8" GYPSUM BOARD UNIT INTERIOR</p>
<p>C</p> <p>WALL HATCH PATTERN ON PLAN</p>  <p>UL US01 2 HOUR ELEVATOR SHAFT & STAIR ENCLOSURE COORDINATE WITH STRUCTURAL</p>  <p>SHAFT/ ENCLOSURE EXTERIOR 2 LAYERS OF 5/8" FIRE RATED GYPSUM BOARD 2X6 WOOD STUDS AT 16" O.C. FULL DEPTH INSULATION 2 LAYERS OF 5/8" FIRE RATED GYPSUM BOARD SHAFT/ ENCLOSURE INTERIOR</p>	<p>F</p> <p>WALL HATCH PATTERN ON PLAN</p>  <p>UL US06 1 HOUR TYPICAL EXTERIOR BEARING WALLS</p>  <p>INTERIOR 5/8" FIRE RATED GYPSUM BOARD 2X6 WOOD STUDS AT 16" O.C. FULL DEPTH INSULATION 7/8" OSB EXTERIOR FINISH (REFER TO ELEVATIONS) EXTERIOR</p>






WALL TYPE NOTES

- ALL GYP. BD. TO BE FIRE RATED.
- ALL GYP. BD. WALLS & CEILINGS TO HAVE ORANGE PEEL FINISH ARCHITECT TO APPROVE TEXTURE PRIOR INSTALLATION.
- ALL BATH ROOM & WASHER/DRYER ROOM WALLS & CEILINGS TO UTILIZE MOLD/MOISTURE RESISTANT GYP. BD.
- ALL WALLS BEHIND KITCHEN CABINETS TO UTILIZE MOLD/MOISTURE RESISTANT GYP. BD. FOR FULL HEIGHT OF WALL.

KEYNOTES

- SEMI-RECESSED FIRE EXTINGUISHER CABINET, 104413 & 104416.
- ELEVATOR, 142100.
- EXTERIOR ENTRY SECURITY SYSTEM, RE. DOOR SCHEDULE & ELECTRICAL.
- EXTERIOR MAIL BOXES, SALSBERY INDUSTRIES, (I) MODEL # 3512 (2 BOXES) & (II) MODEL # 3516 (6 BOXES), COLOR AS SELECTED BY ARCHITECT, RE. CIVIL.
- HEAT PUMP CONDENSERS, RE. MECHANICAL.
- RECESSED KNOX BOX, LOCATION AS REQUIRED PER FIRE MARSHALL.
- DOWNSPOUT W/ SPASHBLOCK, TYP. ON SIDES AND REAR OF BUILDING.
- DOWNSPOUT TIED INTO UNDERGROUND STORM LINE, RE. CIVIL, TYP. ON FRONT OF BUILDING.
- ELECTRICAL METER BANK, RE. ELECTRICAL.
- 36" x 36" FIRE RATED INSULATED ACCESS DOOR W/ LOCK, PRIMED FOR PAINTING, MOUNT 12" AFF.
- 4'-0" TALL VINYL FENCE, COLOR AS SELECTED BY ARCHITECT.
- FURR OUT EXTERIOR WALL W/ 2"x4" STUD & 5/8" GYP. BD. FOR PLUMBING LINES.
- RAILING IN ACCESSIBLE UNIT 104 TO BE INSTALLED @ OUTSIDE EDGE OF COLUMN.

LEGEND

-  PLAN NOTE
 -  DOOR DESIGNATION
 -  WINDOW DESIGNATION
 -  WALL DESIGNATION
 -  INTERIOR ELEVATION
- ASRS(A4.1)
REV. SIM.

- A. ALL INTERIOR DIMENSIONS ARE FROM FACE OF GYP. BD. TO FACE OF GYP. BD.
- B. ALL EXTERIOR DIMENSIONS ARE FROM EDGE OF CONCRETE SLAB AND/OR EXTERIOR FACE OF WOOD STUD.

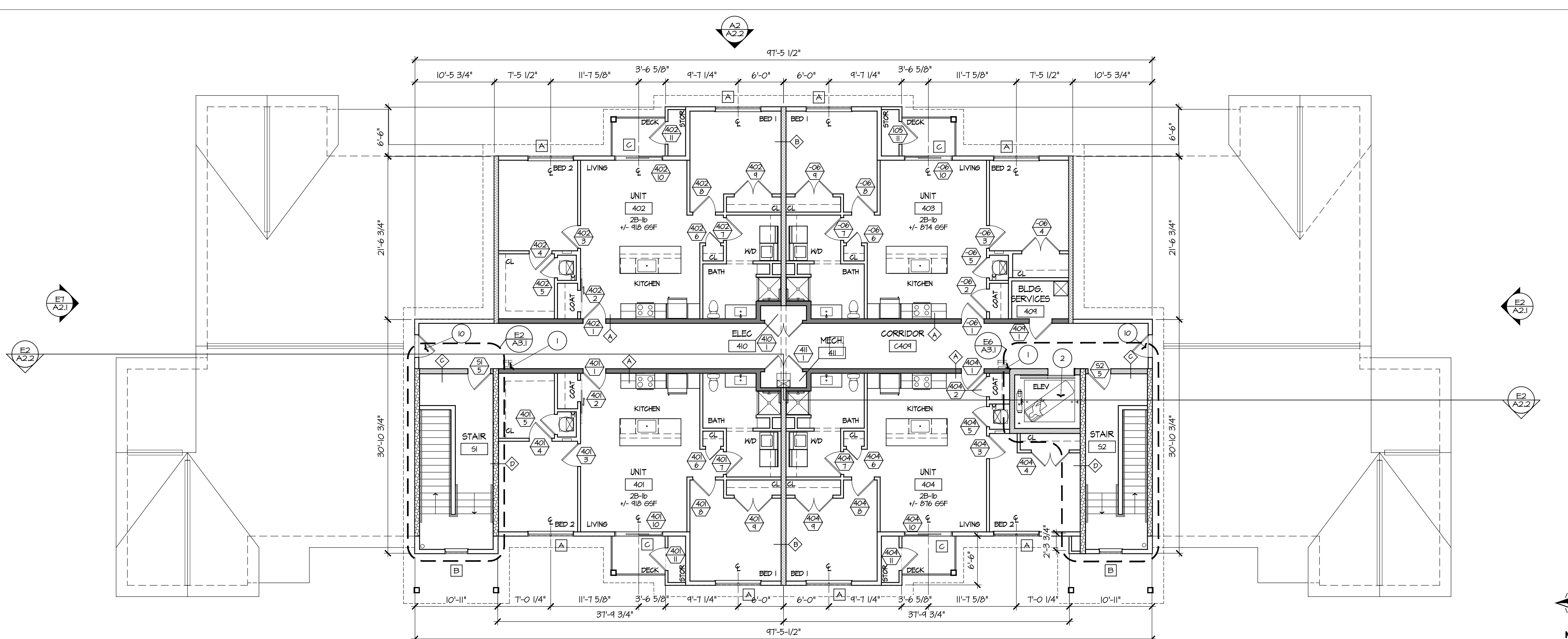


ARCHITECTURAL CORPORATION
OKLAHOMA CERTIFICATE
OF AUTHORITY NO. CA 02479

TIMBER RIDGE COTTAGES
SECTION 8, TOWNSHIP 18, RANGE 15
BROKEN ARROW, WAGONER COUNTY, OK

STARK WILSON DUNCAN ARCHITECTS INC.
315 NICHOLS RD. STE 228 - KANSAS CITY, MO 64112 - T: 816.531.1978 F: 816.531.1978

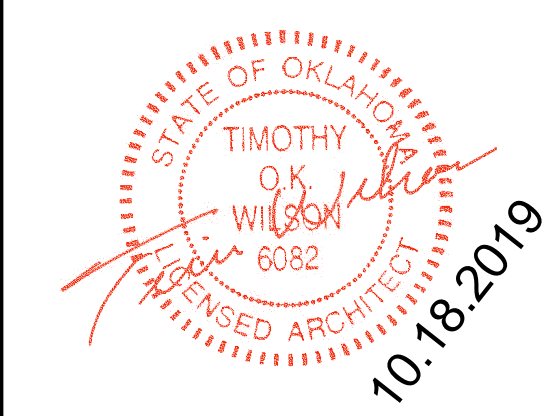
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A2 FOURTH FLOOR PLAN
SCALE: 1/8" = 1'-0"



SEAL
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LICENSE NO. 6082



APARTMENT BUILDING
4TH FLOOR PLAN

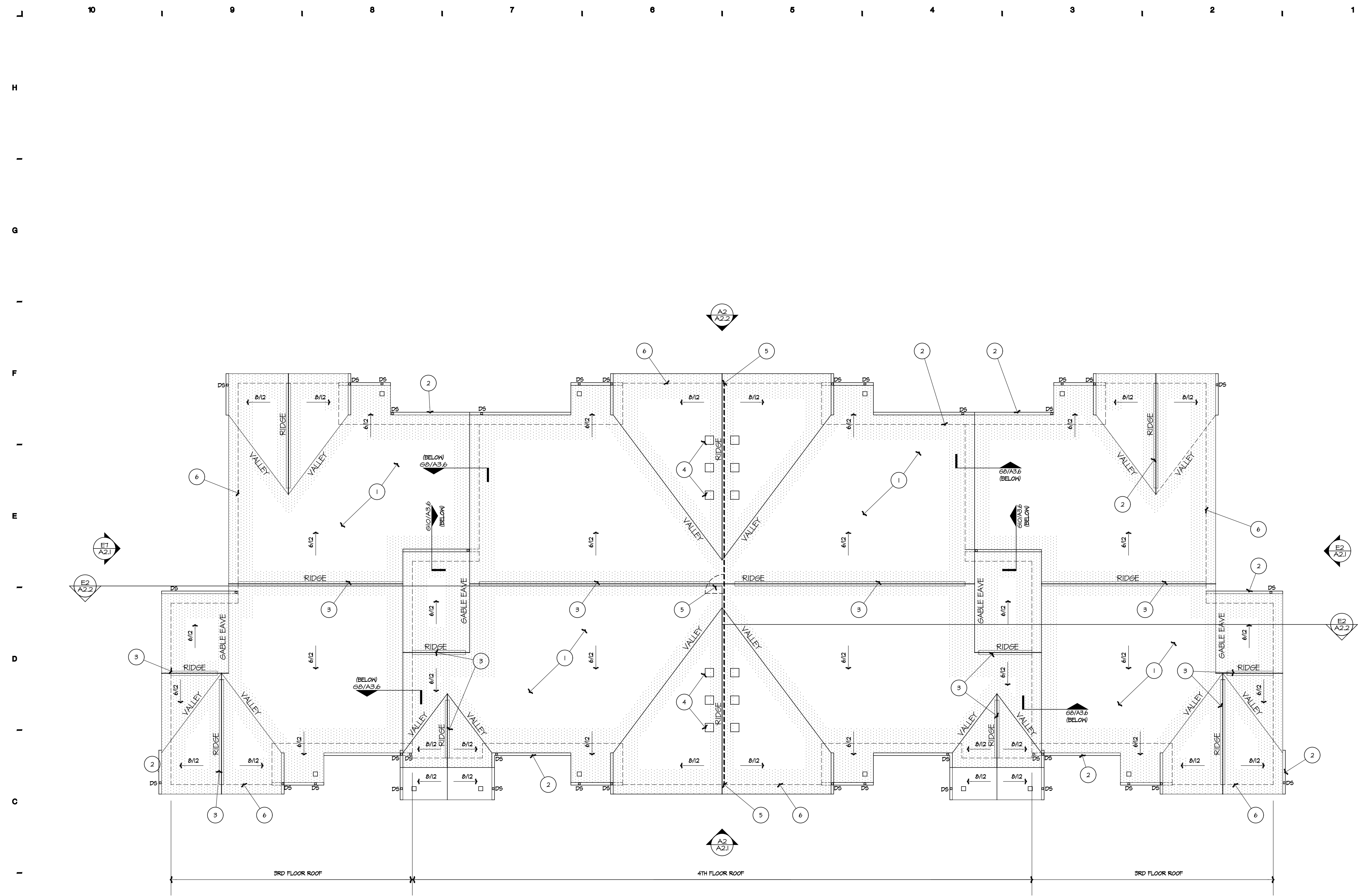
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A6 ROOF PLAN
 SCALE: 1/8" = 1'-0"

KEY NOTES

1. ASPHALT SHINGLE ROOFING SYSTEM. INSTALL 1 LAYER OF 30# ASPHALT SATURATED FELT UNDERLAYMENT LAPPED 2" MIN. INSTALL SELF ADHERING UNDERLAYMENT LEAK BARRIER AT EAVES (ICE DAM PROTECTION) UP ROOF 24" MIN PAST INTERIOR FACE OF EXTERIOR WALL LINE. MANUFACTURED BY TANKO[®] OR APPROVED EQUAL. MOISTURE GUARD PLUS. ALSO INSTALL LEAK BARRIER AT RIDGES, VALLEYS (36" WIDE) & SIDEWALL CONDITIONS. OTSIS. REFER TO STRUCTURAL FOR SHEATHING INFORMATION.
2. PREFINISHED METAL GUTTERS AND DOWNSPOUTS. 076200.
3. RIDGE VENT. 07313.
4. LOWERED ROOF VENT. 50 SQ. INCHES MIN. PAINT TO MATCH ROOF SHINGLES.
5. LINE OF ATTIC DRAFTSTOPPING. EXTEND DEMISING WALL UP TO UNDERSIDE OF ROOF DECKING OR IF TRUSS IS INSTALLED ON TOP OF DEMISING WALL INSTALL 5/8" FIRE RATED GYP. BD. ON ONE SIDE OF WOOD STUD WALL OR TRUSS. PROVIDE A 56" X 26" X 5/8" FIRE RATED GYP. BD. DOOR W/ SPRING HINGES. OPENING IN GYP. BD. TO BE 34" X 34".
6. LINE OF BUILDING BELOW.

ROOF GENERAL NOTES

1. PROVIDE ICE & WATER SHIELD AT ROOF RIDGE, EAVE PERIMETER AND ALL VALLEYS.
2. RIDGE VENT TO HAVE MIN 16.4 SQ. IN. LINEAR FEET OF NET FREE VENTILATION AREA.
3. PROVIDE CONCRETE SPLASH BLOCK AT ALL DOWNSPOUTS THAT ARE NOT CONNECTED TO UNDERGROUND DRAINAGE SYSTEM. RE: 1ST FLOOR PLAN & CIVIL.

LEGEND

- DS — DOWNSPOUT LOCATION - COORDINATE ALL LOCATIONS WITH THE BUILDING ELEVATIONS & CIVIL DRAWINGS FOR BELOW GRADE CONNECTIONS.
- AREA OF ICE & WATER SHIELD APPLICATION.



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TIMBER RIDGE COTTAGES
 SECTION 8, TOWNSHIP 18, RANGE 15
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STARK WILSON DUNCAN ARCHITECTS INC.
 315 NICHOLS RD. STE 228 - KANSAS CITY, MO 64112 - T: 816.531.1996 F: 816.531.1978

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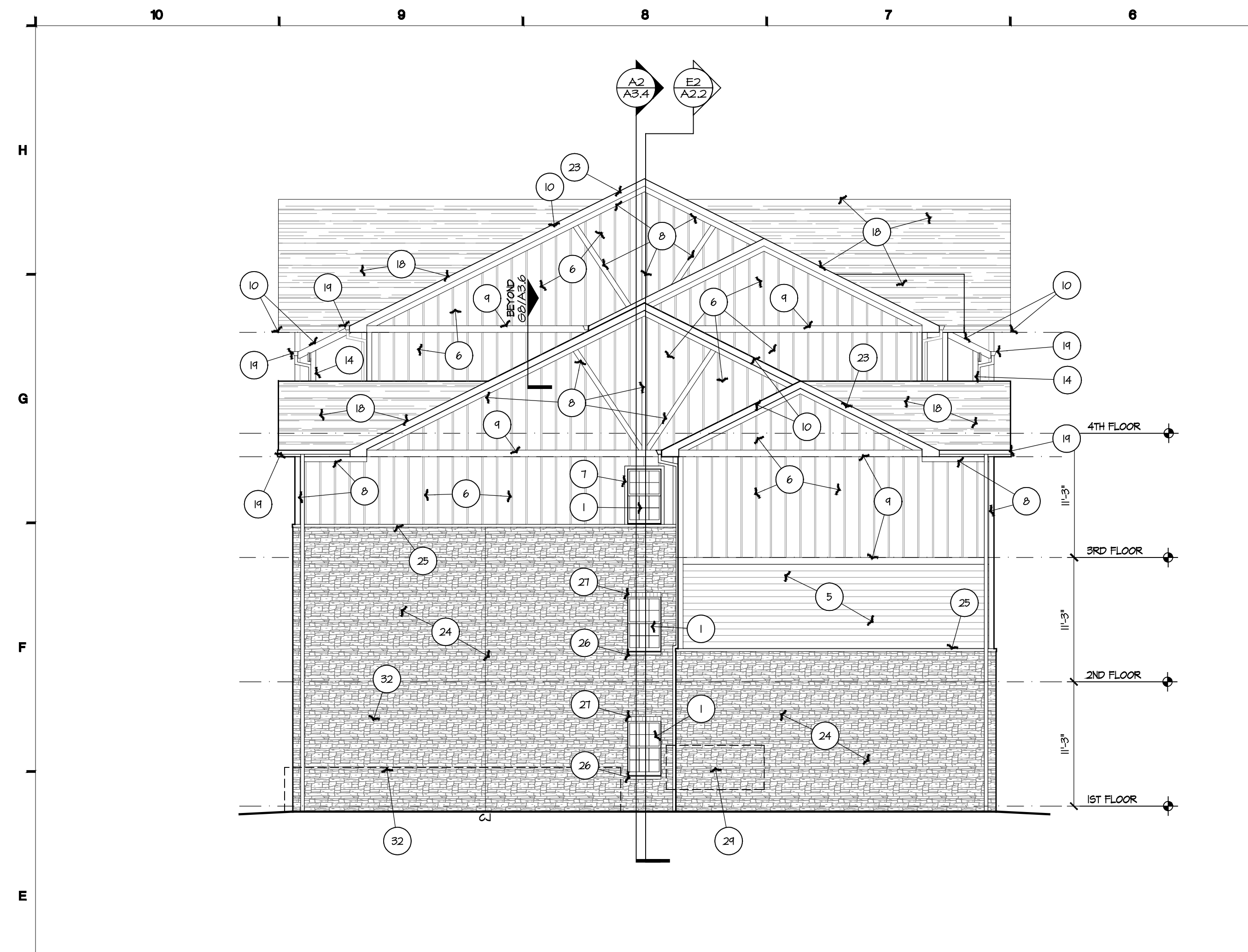
APARTMENT BUILDING
 ROOF PLAN

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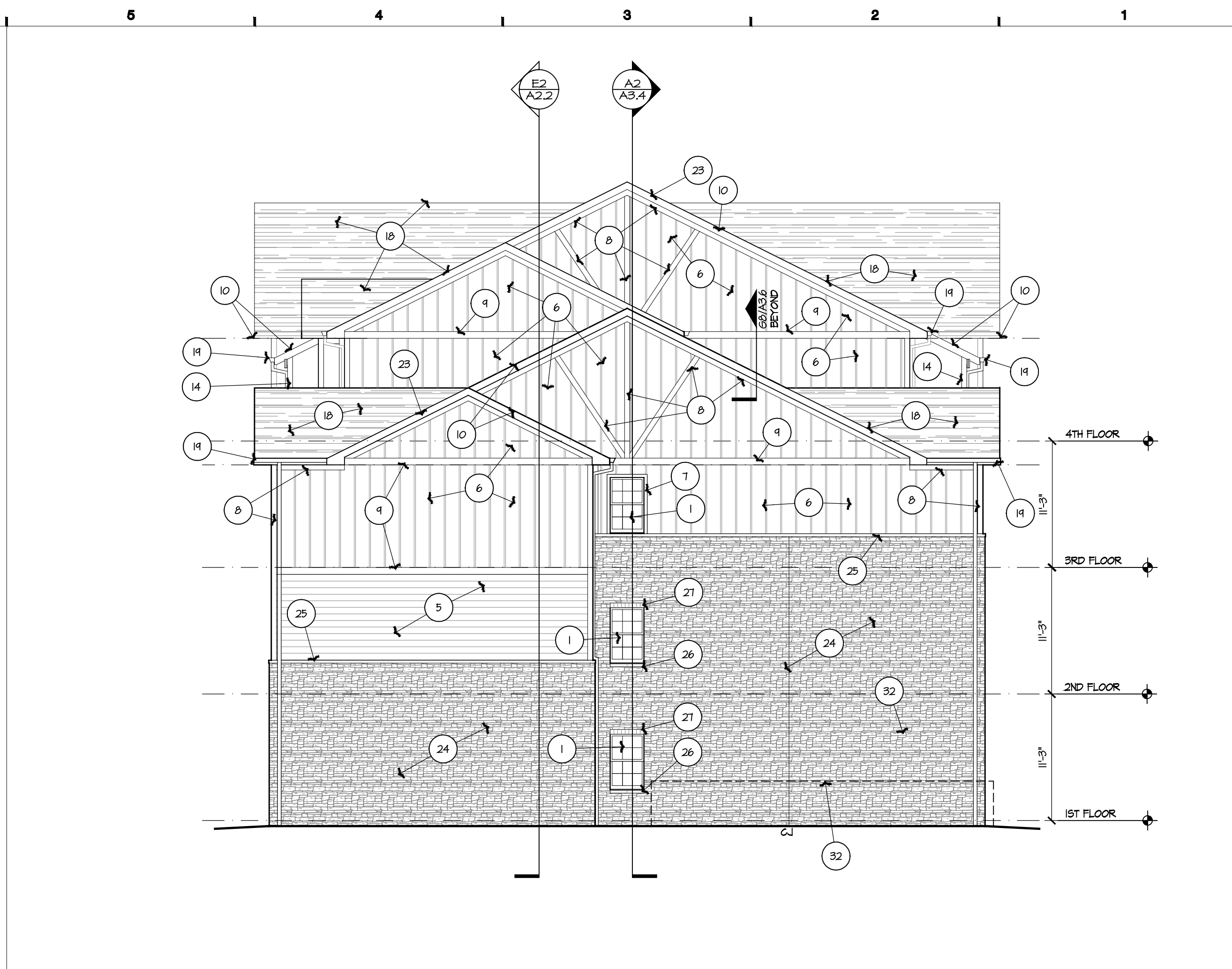
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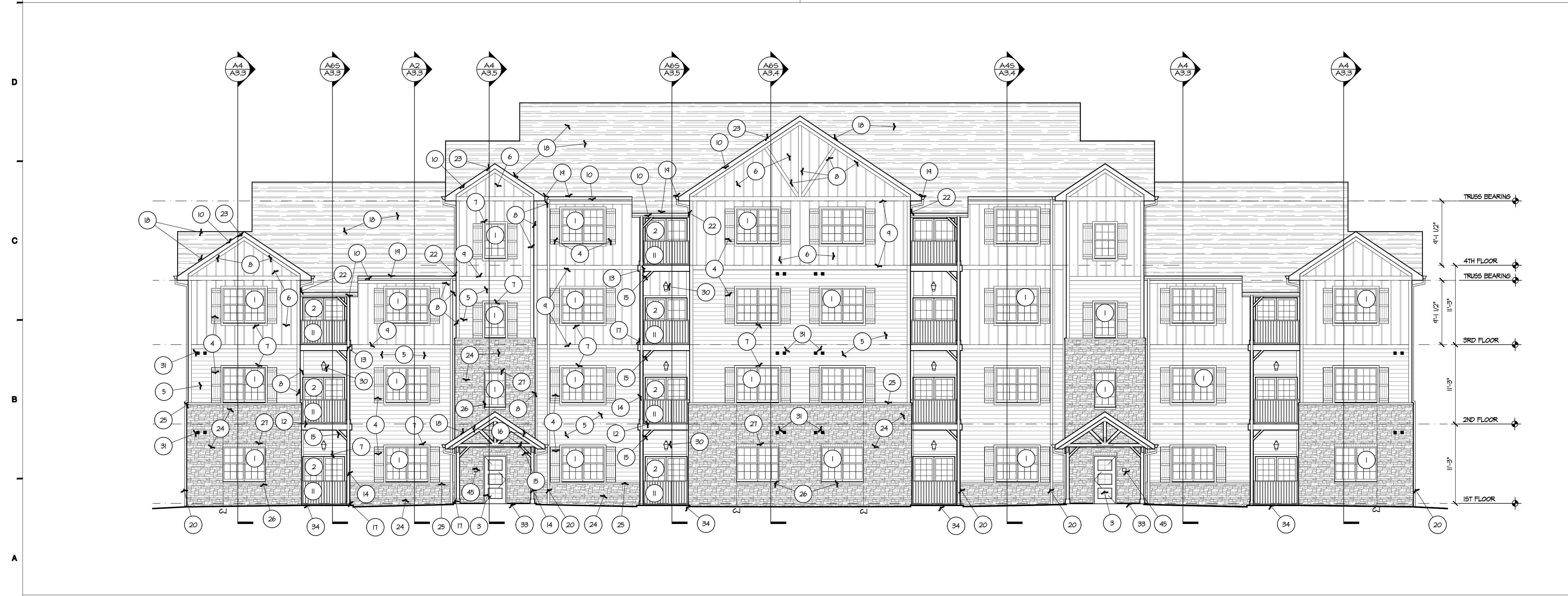
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E7 NORTH (SIDE) ELEVATION
SCALE: 1/8" = 1'-0"



E2 SOUTH (SIDE) ELEVATION
SCALE: 1/8" = 1'-0"



A2 WEST (FRONT) ELEVATION
SCALE: 1/8" = 1'-0"

KEY NOTES

1. VINYL WINDOW PER SCHEDULE, QUAKER MANCHESTER SERIES BASIS OF DESIGN. INTEGRAL WHITE COLOR. 08515
2. VINYL SLIDING PATIO DOOR. 085315
3. HM ENTRY DOOR W/ LITES. PAINT. 08115
4. INTEGRAL COLOR VINYL SHUTTERS. BOARD & BATTEN STYLE. COLOR TO BE SELECTED FROM MFR'S FULL RANGE.
5. CEMENT FIBER BOARD LAP SIDING. 7" EXPOSURE. WOOD GRAIN TEXTURE. PAINT. 074646
6. FIBER CEMENT VERTICAL SIDING W/ BATTENS AT 16" O.C. CENTER. BATTENS ON GABLES WHERE SHOWN. SMOOTH PANEL. TEXTURE & WOOD GRAIN BATTEN TEXTURE. COLOR AS INDICATED. 074646
7. 3/2" FIBER CEMENT BOARD WINDOW TRIM. WOOD GRAIN TEXTURE. PAINT. FLASH PER MFR'S RECOMMENDATIONS. 074646
8. 5/2" FIBER CEMENT BOARD TRIM. WOOD GRAIN TEXTURE. PAINT. 074646
9. 1/4" FIBER CEMENT BOARD TRIM. WOOD GRAIN TEXTURE. PAINT. FLASH HORIZONTAL TRIM PER MFR'S RECOMMENDATIONS. 074646
10. 1/4" FIBER CEMENT FASCIA. WOOD GRAIN TEXTURE. PAINT. 074646
11. PRE-FINISHED ALUMINUM GUARD RAIL. W/ VERTICAL PICKETS SPACED 4" MAX O.C. COLOR TO BE SELECTED FROM MFR'S FULL COLOR RANGE. 055215
12. COMPOSITE WOOD DECKING. 1" X 6" NOMINAL GROoved BOARD. RE. STRUCTURAL
13. COMPOSITE WOOD FASCIA ATTACHED TO DECK FRAMING. COLOR & FINISH TO MATCH COMPOSITE DECKING. 06555
14. TREATED TIMBER COLUMN. STAIN TO MATCH COMPOSITE DECKING. RE. STRUCTURAL
15. TREATED TIMBER BRACE. STAIN TO MATCH COMPOSITE DECKING. RE. STRUCTURAL
16. TREATED WOOD FRAMING. STAIN TO MATCH COMPOSITE DECKING. RE. STRUCTURAL
17. COMPOSITE WOOD FASCIA TO BE USED AS COLUMN BASE TRIM. 06555
18. ARCHITECTURAL ASPHALT SHINGLE ROOFING SYSTEM. COLOR TO BE "CHARCOAL". RE. ROOF PLAN. 07315
19. PRE-FINISHED 6" COMMERCIAL METAL GUTTER. 076200
20. PRE-FINISHED METAL DOWNSPOUT. TERMINATE AT STORM SEWER INLET BELOW GRADE. RE. CIVIL. 076200
21. SIMILAR TO NOTE ABOVE EXCEPT TERMINATE AT GRADE. PROVIDE CONCRETE SPLASH BLOCK. 076200
22. PRE-FINISHED SHEET METAL KICKOUT FLASHING AT ALL EDGE OF ROOF/ HEADWALL CONDITIONS. COLOR TO MATCH ROOFING. TYPICAL. 076200
23. PRE-FINISHED SHEET METAL ROOF Drip EDGE FLASHING. COLOR TO MATCH ROOFING. 076200
24. MANUFACTURED STONE VENEER. 04215
25. MANUFACTURED STONE WATER TABLE SILL CAP. ALIGN GAP W/ WINDOW SILL OR FLOOR LINE AS SHOWN ON ELEVATION. 04215
26. MANUFACTURED STONE WINDOW SILL. 04215
27. MANUFACTURED STONE ROOLOCK. WINDOW HEADER. 04215
28. FIRE DEPARTMENT CONNECTION. RE. MEP
29. WALL MOUNTED ELECTRICAL EQUIPMENT. RE. ELECTRICAL
30. EXTERIOR LIGHT SCONCE CENTERED ABOVE DOOR. MOUNT BOTTOM OF ELECTRICAL BOX AT TOP OF DOOR HEADER (7'-6" ± AFF). PROVIDE FIBER CEMENT TRIM BLOCK. RE. MEP
31. MECHANICAL THROUGH WALL EXHAUST VENTS. COLOR TO BE WHITE. PROVIDE FIBER CEMENT TRIM BLOCK. RE. MEP
32. 4'-0" TALL VINYL FENCE. SHOWN AS DASHED FOR CLARITY
33. CONCRETE ENTRY PAVEMENT. SLOPE AWAY FROM BUILDING AT 2% SLOPE MAX. GROSS SLOPE NOT TO EXCEED 2% SLOPE. RE. CIVIL
34. CONCRETE PATIO. PATIO ELEVATION TO BE 3" BELOW FINISH FLOOR UNO. RE. STRUCTURAL
35. SAME AS NOTE ABOVE EXCEPT PATIO ELEVATION TO BE 5/8" IN FINISHED FLOOR IN UNIT 104 ONLY. RE. STRUCTURAL
36. 1 HOUR RATED FLOOR / CEILING TYPE 'A'. UL L565. RE. AO.2
37. 1 HOUR RATED FLOOR / CEILING TYPE 'B'. UL L501. RE. AO.3
38. 1 HOUR RATED ROOF / CEILING TYPE 'A'. UL F565. RE. AO.3
39. 2 HOUR RATED WALL TYPE 'C' OR 'D'. UL L501. RE. AO.3. RE. STRUCTURAL PLANS FOR SHEAR WALL REQUIREMENTS
40. SUSPENDED GYP. BD. CEILING. RE. REFLECTED CEILING PLANS
41. R-30 BLOWN IN INSULATION
42. PRE-ENGINEERED ROOF TRUSS. RE. STRUCTURAL
43. PRE-ENGINEERED FLOOR TRUSS. RE. STRUCTURAL
44. SEMI-RECESSED FIRE EXTINGUISHER CABINET. 104415 & 104416
45. ELEVATOR. 142100
46. RECESSED KNOX BOX LOCATION AS REQUIRED PER FIRE MARSHALL
47. ATTIC DRAFTSTOPPING. RE. ROOF PLAN
48. 5/4" GYPSUM CEMENT UNDERLAYMENT ON 5/4" T & G PLYWOOD
49. 4" REINFORCED CONCRETE SLAB OVER 15 MIL VAPOR BARRIER. RE. STRUCTURAL

ELEV. GENERAL NOTES

- A. INSTALL COMPLETE SIDING SYSTEM ON SHEATHING. SIDING SYSTEM MANUFACTURED BY JAMES HARDIE BUILDING PRODUCTS. INSTALL SIDING TRIM CAULK & FLASHING PER MANUFACTURER'S INSTRUCTIONS. FINISH AS INDICATED UNDER EXTERIOR FINISHES. ALL DETAILS SHALL BE AS REQ'D BY THE MANUFACTURER.
- B. CAULK ALL WINDOW FRAMES, DOOR FRAMES, DOOR SILLS, TRIM & EXTERIOR WALL PENETRATIONS AS REQUIRED FOR WATERPROOF PERFORMANCE. COLOR TO MATCH ADJACENT TRIM / WALL SURFACE COLOR. USE CAULK TYPE RECOMMENDED BY MANUFACTURER FOR SPECIFIC JOINT MATERIAL & CONDITION.
- C. ALL COLOR SELECTIONS BY ARCHITECT FROM MANUFACTURER'S FULL RANGE
- D. ALL OPERABLE WINDOWS AT DWELLING UNITS ABOVE THE FIRST FLOOR TO HAVE OPENING CONTROL DEVICES.

EXTERIOR FINISHES

- A. ARCHITECTURAL TAB SHINGLE. 6AF. TIMBERLINE NATURAL SHADOW BASIS OF DESIGN. COLOR: "CHARCOAL"
- B. MANUFACTURED STONE VENEER. DUTCH QUALITY STONE BASIS OF DESIGN. COLOR: "LEDGESTONE QUAIL GREY"
- C. CEMENT FIBER VERTICAL SIDING W/ BATTEN BOARDS AT 16" O.C. JAMES HARDIE. PANEL. TEXTURE: SMOOTH. BATTEN BOARD TEXTURE: RUSTIC GRAIN. COLOR: ARCTIC WHITE FOR PRE-FINISHED OR EXT-PI (TBD) FOR PAINT.
- D. CEMENT FIBER LAP SIDING (7" EXPOSURE). JAMES HARDIE. TEXTURE: SELECT CEDARMILL COLOR. ARCTIC WHITE FOR PRE-FINISHED OR EXT-PI (TBD) FOR PAINT.



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SEAL
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LICENSE NO. 6082



APARTMENT BUILDING
EXTERIOR ELEVATIONS

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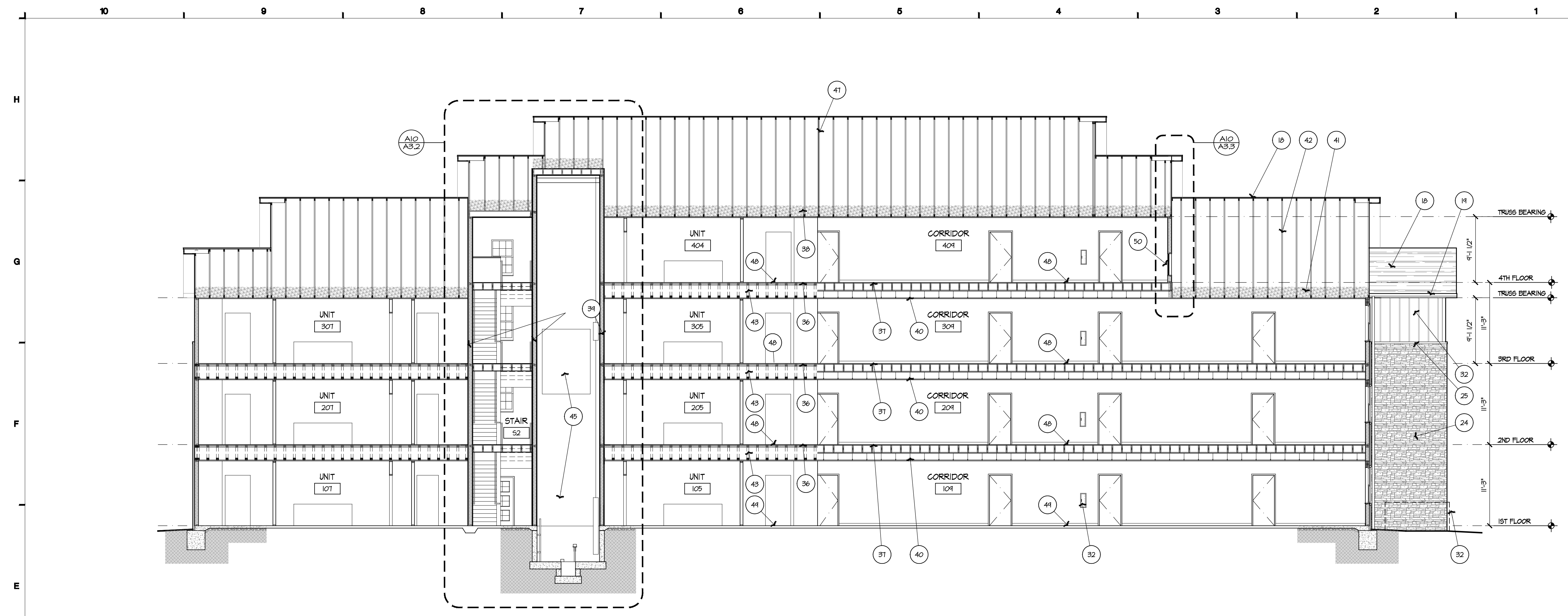
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E2 LONGITUDINAL SECTION
 SCALE: 1/8" = 1'-0"



A2 EAST (REAR) ELEVATION
 SCALE: 1/8" = 1'-0"

KEY NOTES

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2. VINYL SLIDING PATIO DOOR. 085315
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12. COMPOSITE WOOD DECKING. 1" X 6" NOMINAL GROOVED BOARD. 08155
13. COMPOSITE WOOD FASCIA ATTACHED TO DECK FRAMING. COLOR 4 FINISH TO MATCH COMPOSITE DECKING. 08155
14. TREATED TIMBER COLUMN. STAIN TO MATCH COMPOSITE DECKING. RE. STRUCTURAL
15. TREATED TIMBER BRACE. STAIN TO MATCH COMPOSITE DECKING. RE. STRUCTURAL
16. TREATED WOOD FRAMING. STAIN TO MATCH COMPOSITE DECKING. RE. STRUCTURAL
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37. 1 HOUR RATED FLOOR / CEILING TYPE 'B'. UL L501. RE. A03
38. 1 HOUR RATED ROOF / CEILING TYPE 'A'. UL F565. RE. A03
39. 2 HOUR RATED WALL TYPE 'C' OR 'D'. UL U501. RE. A03. RE. STRUCTURAL PLANS FOR SHEAR WALL REQUIREMENTS
40. SUSPENDED GYP. BD. CEILING. RE. REFLECTED CEILING PLANS
41. R-39 BLOWN IN INSULATION
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- D. ALL OPERABLE WINDOWS AT DWELLING UNITS ABOVE THE FIRST FLOOR TO HAVE OPENING CONTROL DEVICES.

EXTERIOR FINISHES

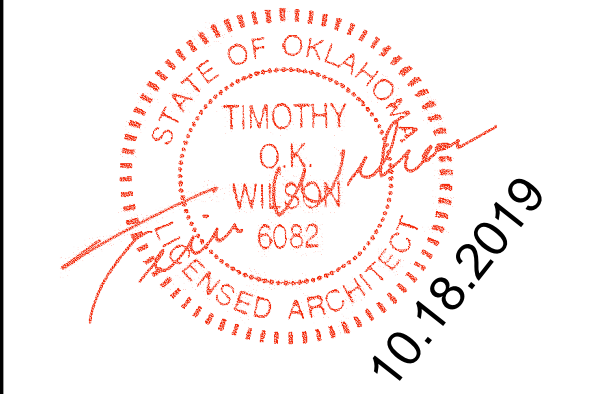
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SEAL
 ARCHITECT - TIMOTHY O.K. WILSON
 LICENSE NO. 6082



APARTMENT BUILDING
 EXTERIOR ELEVATION &
 BUILDING SECTIONS

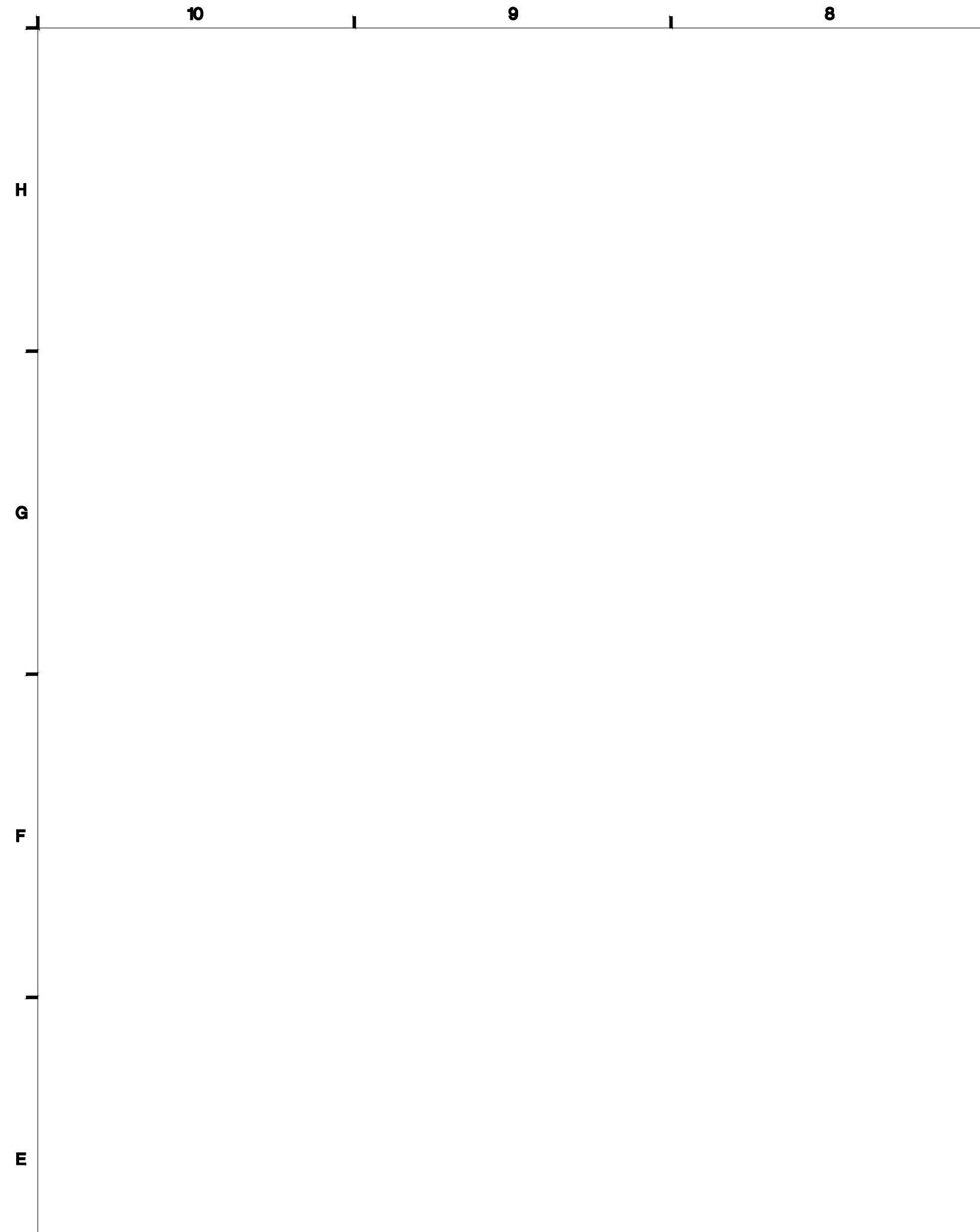
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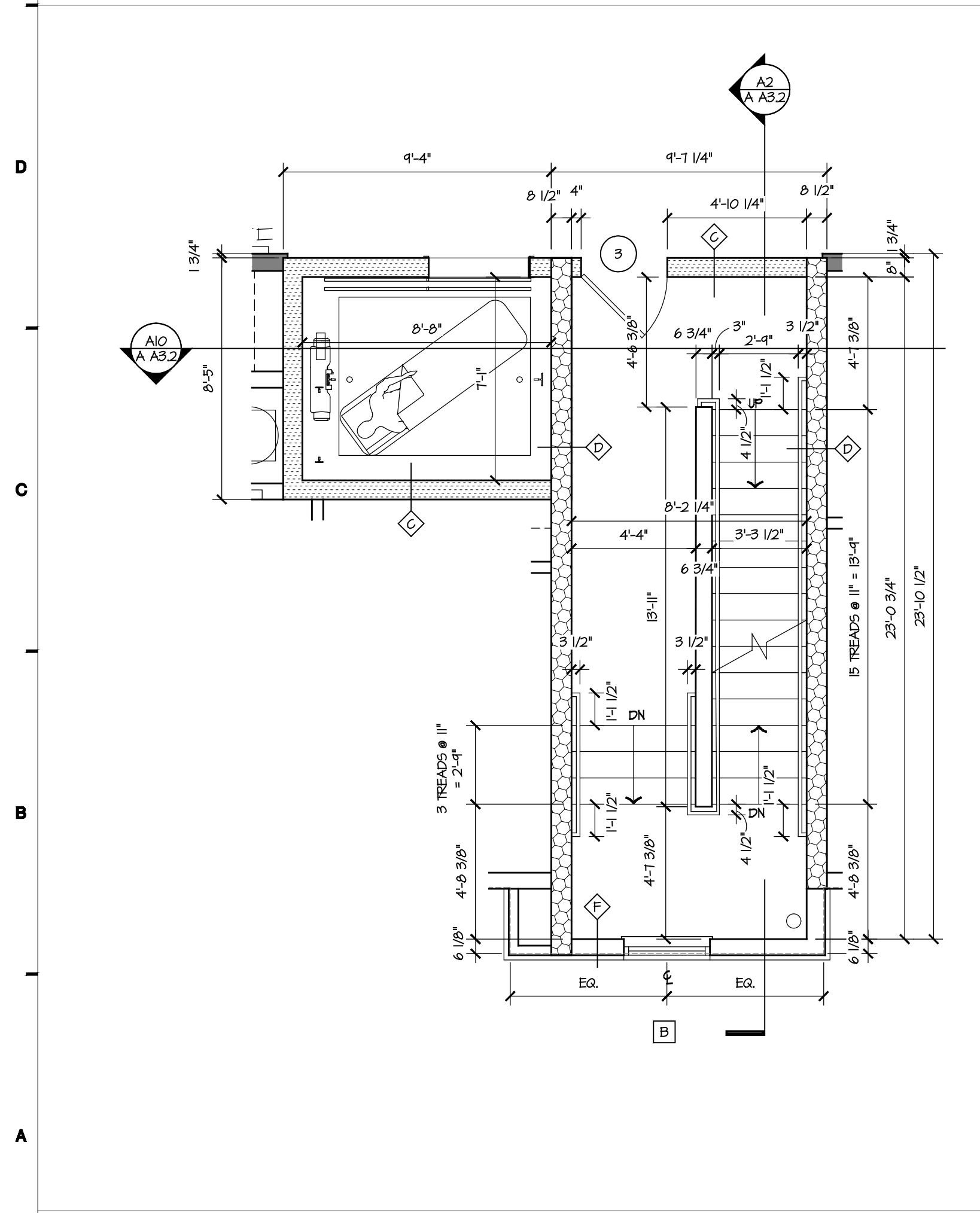
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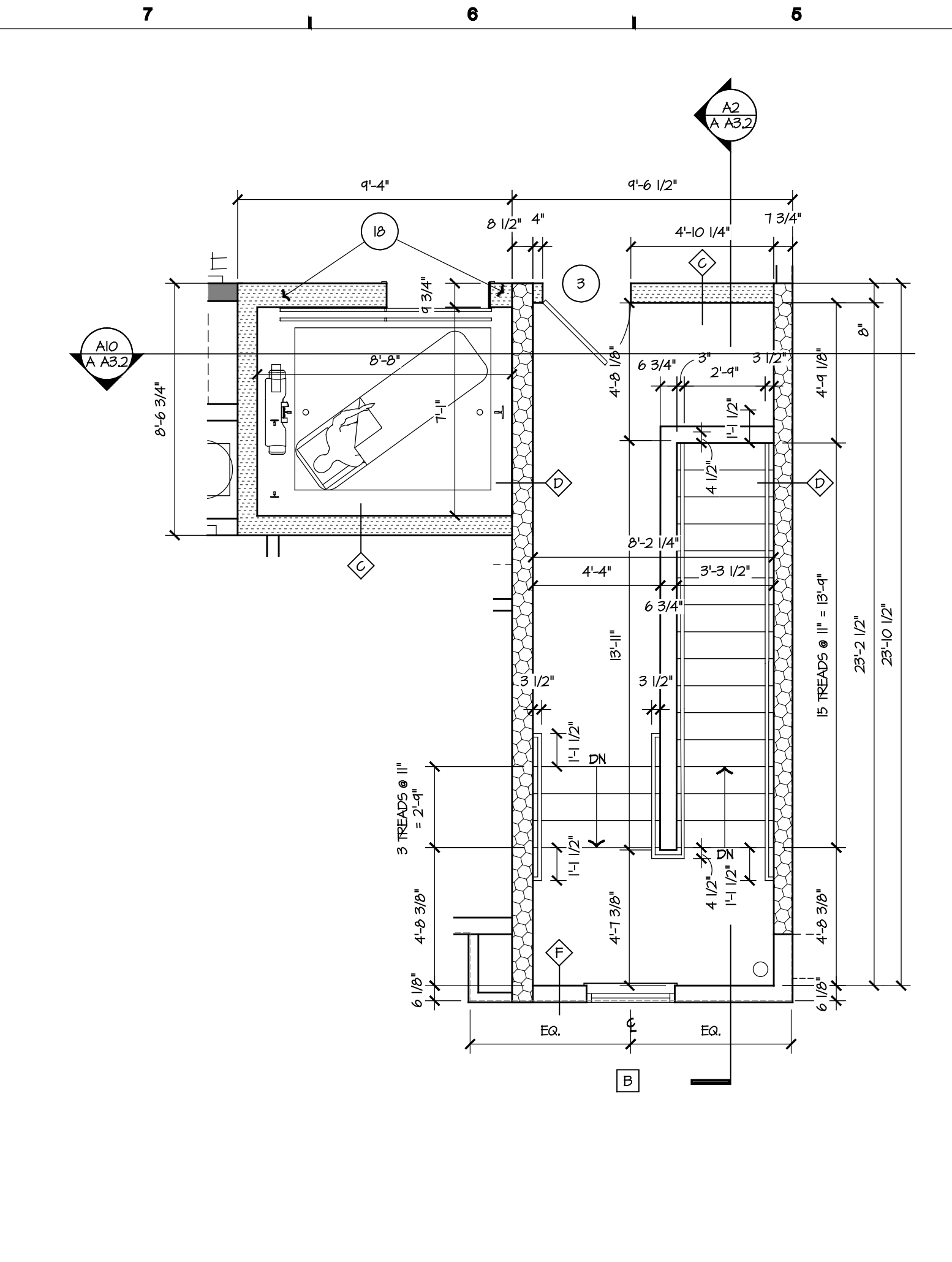
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E6 ELEV & STAIR 2 - 4TH FLOOR
 SCALE: 1/4" = 1'-0"



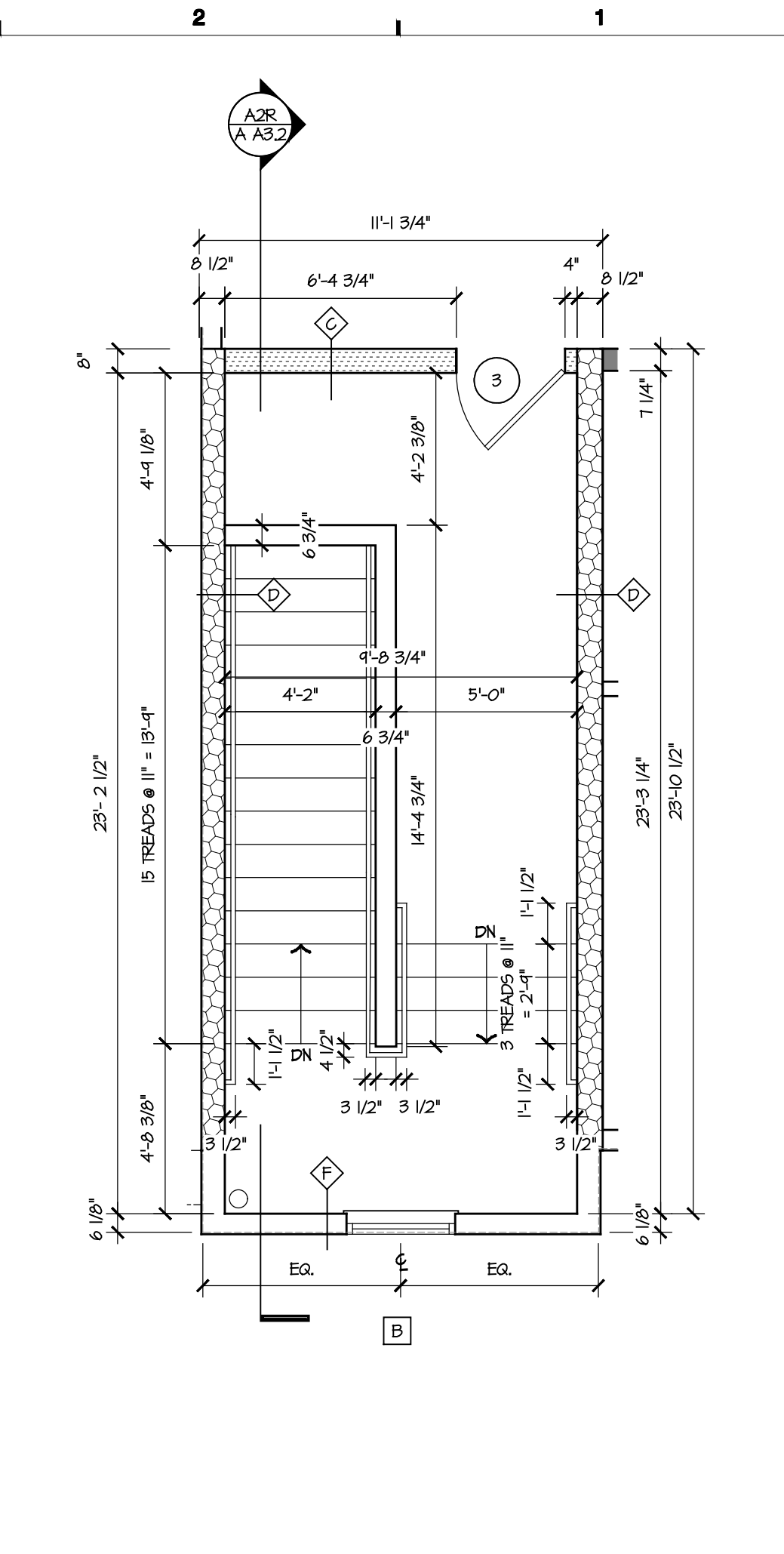
A10 ELEV & STAIR 2 - 2ND & 3RD
 SCALE: 1/4" = 1'-0"



A6 ENLARGED ELEV & STAIR 2 - 1ST
 SCALE: 1/4" = 1'-0"



A4 ENLARGED STAIR 1 - 2ND & 3RD
 SCALE: 1/4" = 1'-0"



A2 ENLARGED STAIR 1 - 1ST FLOOR
 SCALE: 1/4" = 1'-0"

KEY NOTES

1. 1 1/2" DIAMETER STEEL HANDRAIL, CONTINUOUS AT CENTER. TOP OF HANDRAIL SHALL BE 36" ABOVE STAIR NOSINGS & LANDINGS. TYPICAL PAINT: 052025.
2. RETURN HANDRAIL TO WALL. PROVIDE SOLID WOOD BLOCKING AT SUPPORTS. TYPICAL.
3. SCHEDULED DOOR & FRAME OR WINDOW.
4. 4" REINFORCED CONCRETE SLAB OVER 5 MIL VAPOR BARRIER. RE: STRUCTURAL.
5. 2 X 12 FRAMING @ 16" O.C. RE: STRUCTURAL.
6. 2 X 12 WOOD STRINGER. RE: STRUCTURAL.
7. 2 X 6 WOOD FRAMING @ 16" O.C.
8. WOOD HEADER. RE: STRUCTURAL.
9. 5/8" GYP. BD. RE: FLOOR PLANS FOR FIRE RATING, PAINT, TYP.
10. 3/4" T & G PLYWOOD DECKING. RE: STRUCTURAL.
11. 1X WOOD TRIM. PAINT: 052025.
12. WOOD TRIM CAP. PAINT: 052025.
13. WOOD BLOCKING.
14. STANDPIPE LOCATED ON OPPOSITE SIDE OF STAIR SHAFT. RE: FLOOR PLAN, RE: PLUMBING.
15. 2X WOOD TREAD & RISERS.
16. SCHEDULED WINDOW. RE: FLOOR PLANS.
17. 1 HOUR RATED FLOOR CEILING TYPE 'B'. UL L501. RE: A0.3.
18. AT THE 4TH FLOOR ONLY, FRAME HORIZONTAL OPENING WALL W/ 2X8 STUDS TO ACCOMMODATE ELEVATOR CONTROL PANEL PER MANUFACTURERS REQUIREMENTS.
19. ELECTRIC TRACTION ELEVATOR. 142100.
20. ELEVATOR PIT SUMP. RE: STRUCTURAL & PLUMBING.
21. ELEVATOR PIT LADDER. PAINT: 052000.
22. CONCRETE ELEVATOR FIT. RE: STRUCTURAL.
23. 2 HOUR RATED WALL TYPE 'C' OR 'D'. UL L501. RE: A0.3. RE: STRUCTURAL FOR SHEAR WALL REQUIREMENTS.
24. 1 HOUR RATED FLOOR / CEILING TYPE 'A'. UL L563. RE: A0.2.
25. SUSPENDED GYP. BD. CEILING. RE: REFLECTED CEILING PLAN.
26. ELEVATOR & STAIR SHAFT ROOF TO BE 3/4" PLYWOOD ON 2X10 WOOD JOIST @ 16" O.C. W/ 2 LAYERS OF 5/8" FIRE RATED GYP. BD. BELOW JOIST.
27. R30 BLOWN IN INSULATION. OT2100.
28. PRE-ENGINEERED ROOF TRUSS. RE: STRUCTURAL.
29. 30# BUILDING FELT UNDERLAYMENT. PROVIDE ICE & WATER SHIELD AT ROOF VALLEYS & EDGES. OT315.
30. 1/4" PLYWOOD ROOF SHEATHING. RE: STRUCTURAL.
31. ASPHALT SHINGLES. OT315.
32. 3/4" GYPSUM CEMENT UNDERLAYMENT. 053415.
33. PRE-ENGINEERED FLOOR TRUSS. RE: STRUCTURAL.
34. 8" STEEL HOIST BEAM PER ELEVATOR MANUFACTURERS REQUIREMENTS.

GENERAL NOTES

- A. RE: STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- B. RE: F SHEETS FOR FINISHES WITHIN STAIR SHAFTS.
- C. STAIR RISER HEIGHTS SHALL BE 7 INCHES MAXIMUM. THE RISER HEIGHT SHALL BE MEASURED VERTICALLY BETWEEN THE NOSINGS OF ADJACENT TREADS. RECTANGULAR TREAD DEPTHS SHALL BE 11 INCHES MINIMUM MEASURED HORIZONTALLY BETWEEN THE VERTICAL PLANES OF THE FOREMOST PROJECTION OF ADJACENT TREADS & AT A RIGHT ANGLE TO THE TREAD'S NOSING.



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TIMBER RIDGE COTTAGES

SECTION 8, TOWNSHIP 18, RANGE 15
 BROKEN ARROW, WAGONER COUNTY, OK

STARK WILSON DUNCAN ARCHITECTS INC.
 315 NICHOLS RD. STE 228 - KANSAS CITY, MO 64112 - T: 816.531.1696 F: 816.531.1978

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 ARCHITECT - TIMOTHY O.K. WILSON
 LICENSE NO. 6082



ENLARGED STAIR &
 ELEVATOR PLANS

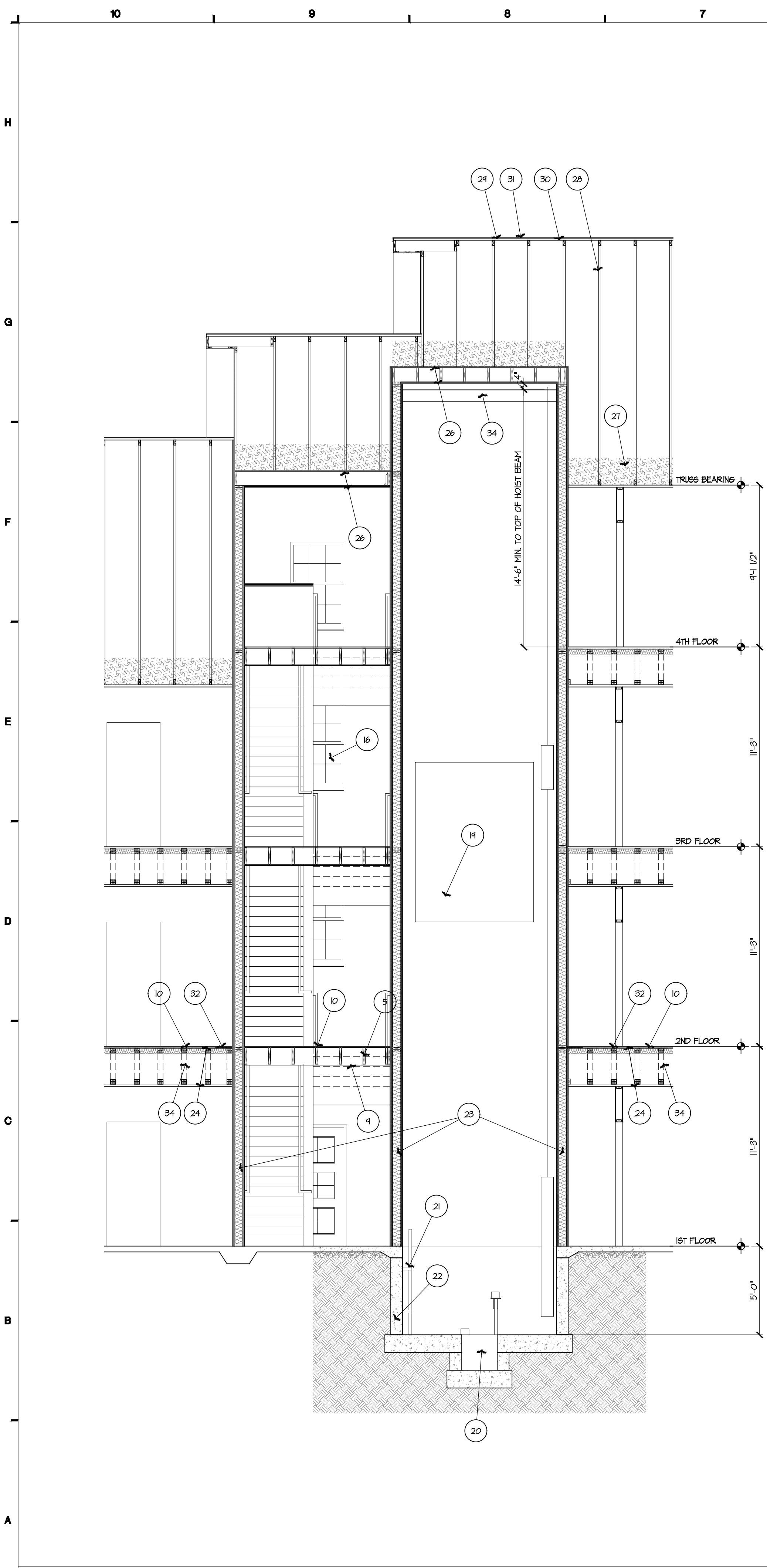
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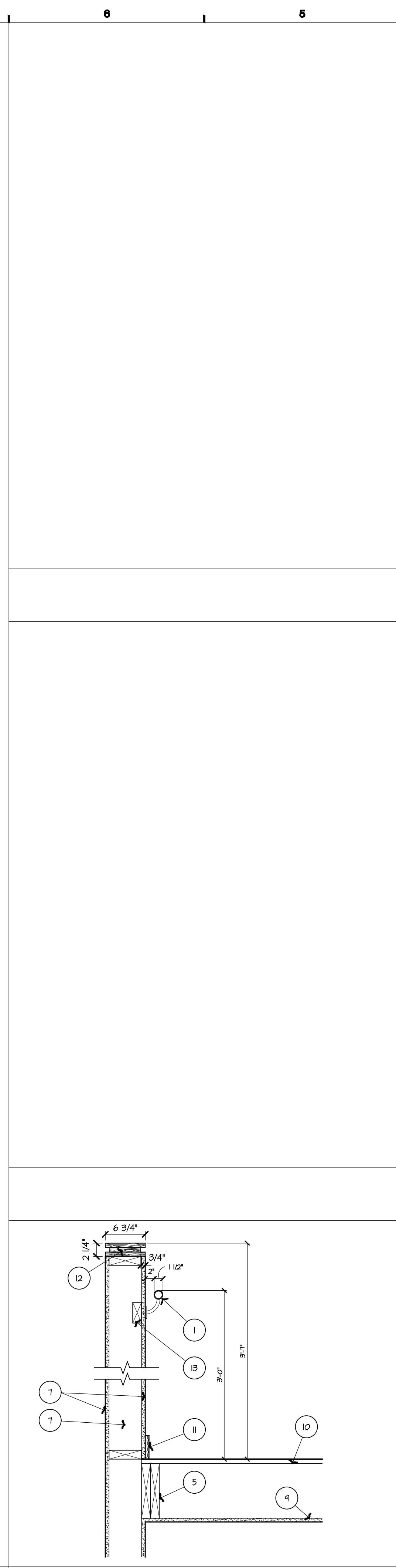
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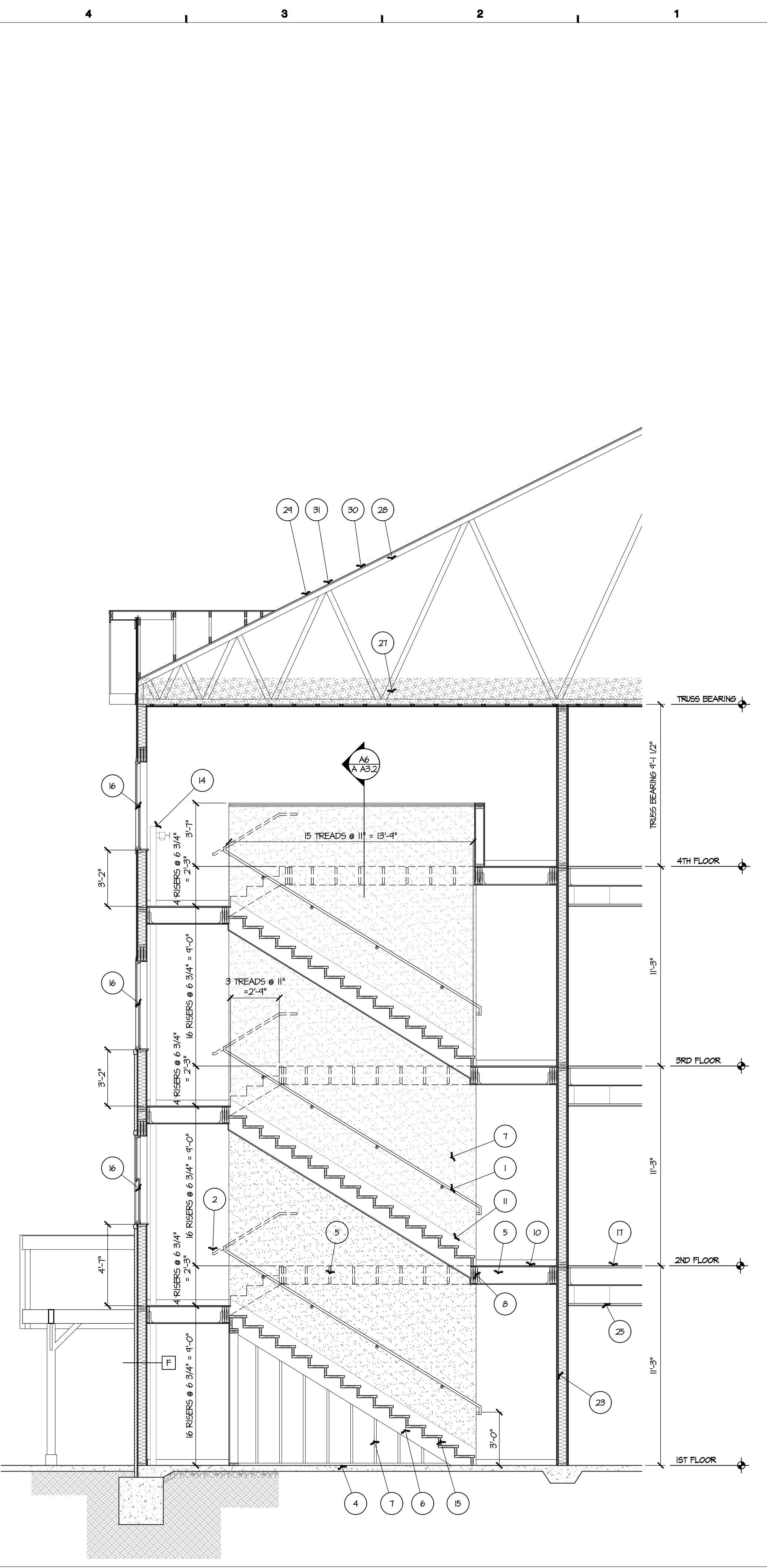
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A10 SECTION ELEVATOR
 SCALE: 1" = 1'-0"



A6 GUARD/HANDRAIL DETAIL
 SCALE: 1" = 1'-0"



A2 SECTION STAIR 1 & 2
 SCALE: 1/4" = 1'-0"

KEY NOTES

1. 1 1/2" DIAMETER STEEL HANDRAIL, CONTINUOUS AT CENTER. TOP OF HANDRAIL SHALL BE 36" ABOVE STAIR NOSINGS & LANDINGS. TYPICAL PAINT: 052023.
2. RETURN HANDRAIL TO WALL. PROVIDE SOLID WOOD BLOCKING AT SUPPORTS. TYPICAL.
3. SCHEDULED DOOR & FRAME OR WINDOW.
4. 4" REINFORCED CONCRETE SLAB OVER 5 MIL VAPOR BARRIER. RE: STRUCTURAL.
5. 2 X 12 FRAMING @ 16" O.C. RE: STRUCTURAL.
6. 2 X 12 WOOD STRINGER. RE: STRUCTURAL.
7. 2 X 6 WOOD FRAMING @ 16" O.C.
8. WOOD HEADER. RE: STRUCTURAL.
9. 5/8" GYP. BD. RE: FLOOR PLANS FOR FIRE RATING, PAINT. TYP.
10. 3/4" T & G PLYWOOD DECKING. RE: STRUCTURAL.
11. 1X WOOD TRIM. PAINT: 052023.
12. WOOD TRIM GAP. PAINT: 052023.
13. WOOD BLOCKING.
14. STANDPIPE LOCATED ON OPPOSITE SIDE OF STAIR SHAFT. RE: FLOOR PLAN. RE: PLUMBING.
15. 2X WOOD TREAD & RISERS.
16. SCHEDULED WINDOW. RE: FLOOR PLANS.
17. 1 HOUR RATED FLOOR CEILING TYPE 'B'. UL L501. RE: A0.3.
18. AT THE 4TH FLOOR ONLY, FRAME HORIZONTAL OPENING WALL W/ 2X6 STUDS TO ACCOMMODATE ELEVATOR CONTROL PANEL. PER MANUFACTURERS REQUIREMENTS.
19. ELECTRIC TRACTION ELEVATOR. 142100.
20. ELEVATOR PIT SUMP. RE: STRUCTURAL & PLUMBING.
21. ELEVATOR PIT LADDER. PAINT: 052000.
22. CONCRETE ELEVATOR FIT. RE: STRUCTURAL.
23. 2 HOUR RATED WALL TYPE 'C' OR 'D'. UL L501. RE: A0.3. RE: STRUCTURAL FOR SHEAR WALL REQUIREMENTS.
24. 1 HOUR RATED FLOOR / CEILING TYPE 'A'. UL L563. RE: A0.2.
25. SUSPENDED GYP. BD. CEILING. RE: REFLECTED CEILING PLAN.
26. ELEVATOR & STAIR SHAFT ROOF TO BE 5/4" PLYWOOD ON 2X10 WOOD JOIST @ 16" O.C. W/ 2 LAYERS OF 5/8" FIRE RATED GYP. BD. BELOW JOIST.
27. R30 BLOWN IN INSULATION. 02100.
28. PRE-ENGINEERED ROOF TRUSS. RE: STRUCTURAL.
29. 30# BUILDING FELT UNDERLAYMENT. PROVIDE ICE & WATER SHIELD AT ROOF VALLEYS & EDGES. 07519.
30. 1/2" PLYWOOD ROOF SHEATHING. RE: STRUCTURAL.
31. ASPHALT SHINGLES. 07313.
32. 3/4" GYPSUM CEMENT UNDERLAYMENT. 05343.
33. PRE-ENGINEERED FLOOR TRUSS. RE: STRUCTURAL.
34. 8" STEEL HOIST BEAM PER ELEVATOR MANUFACTURERS REQUIREMENTS.



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STAIR SECTIONS

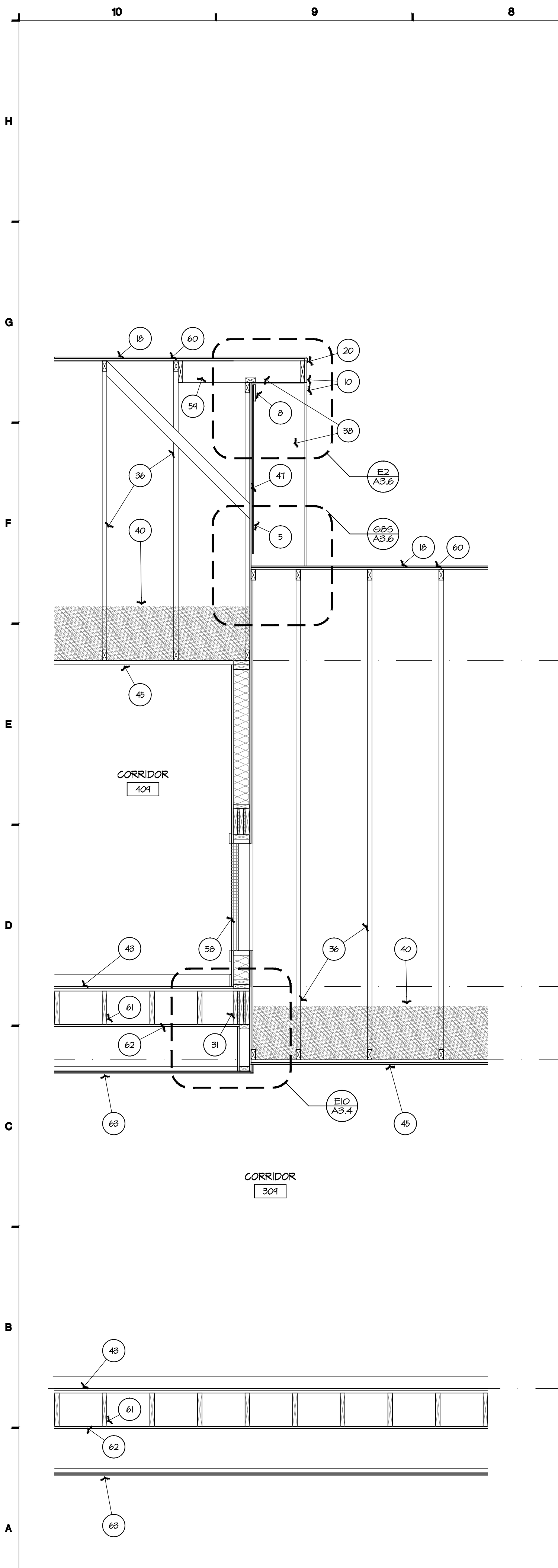
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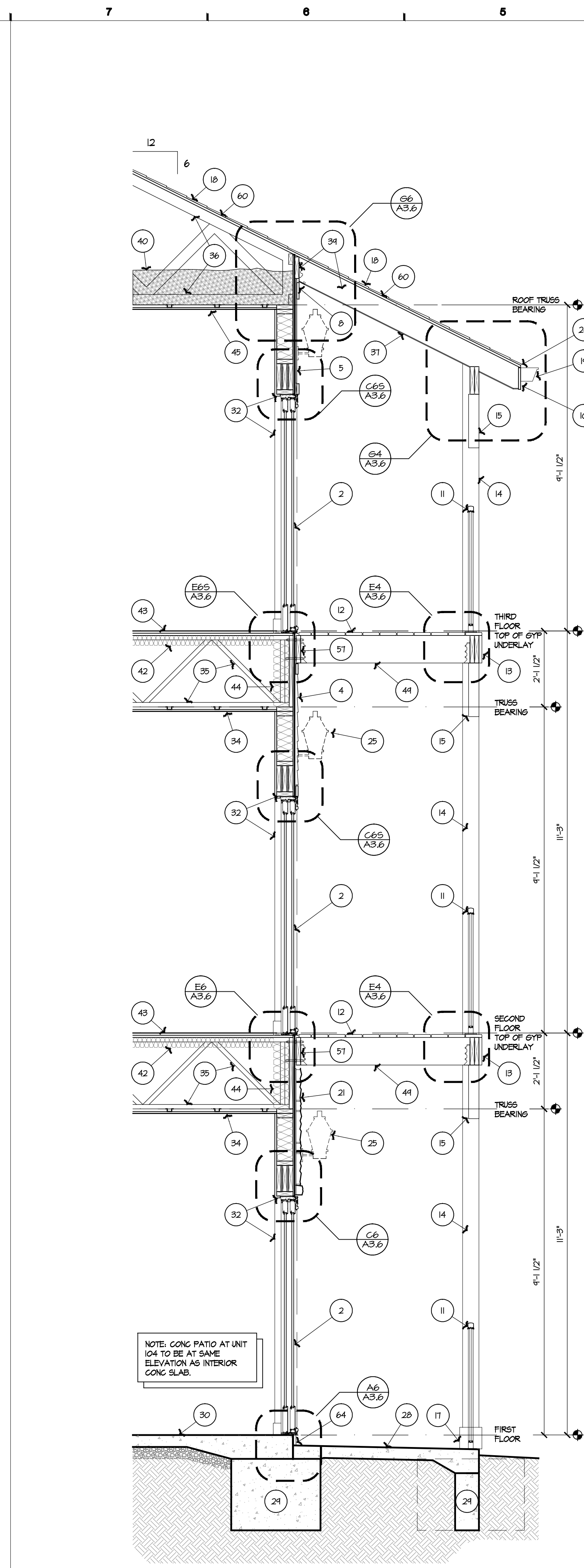
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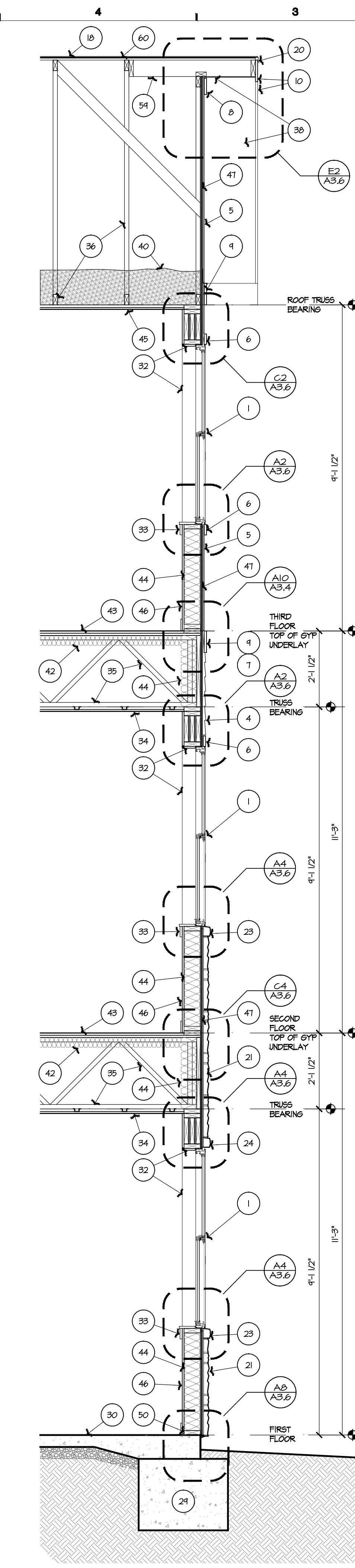
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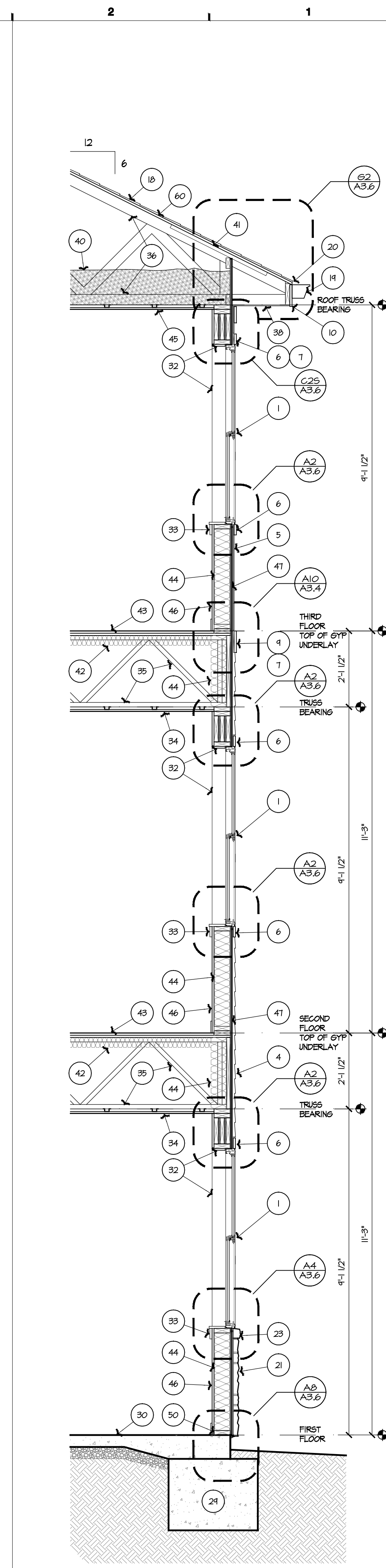
A10 PARTIAL WALL SECTION
SCALE: 1/2" = 1'-0"



A6 WALL SECTION
SCALE: 1/2" = 1'-0"



A4 WALL SECTION
SCALE: 1/2" = 1'-0"



A2 WALL SECTION
SCALE: 1/2" = 1'-0"

KEYNOTES

1. VINYL WINDOW PER SCHEDULE QUAKER MANCHESTER SERIES BASIS OF DESIGN. INTEGRAL WHITE COLOR. 065515
2. VINYL SLIDING PATIO DOOR. 065515
3. H.M. ENTRY DOOR W/ LITES. PAINT. 061115
4. FIBER CEMENT BOARD LAP SIDING. T' EXPOSURE. WOOD GRAIN TEXTURE. PAINT. 074646
5. FIBER CEMENT VERTICAL SIDING W/ BATTENS AT 16" O.C. CENTER BATTENS OR GABLES WHERE SHOWN SMOOTH PANEL TEXTURE & WOOD GRAIN BATTEN TEXTURE. COLOR AS INDICATED. 074646
6. 3/2" FIBER CEMENT BOARD WINDOW TRIM. WOOD GRAIN TEXTURE. PAINT. FLASH PER MFR'S RECOMMENDATIONS. 074646
7. FURR OUT TRIM AS REQUIRED TO BE FLUSH W/ VERTICAL BATTEN BOARDS.
8. 3/2" FIBER CEMENT BOARD TRIM. WOOD GRAIN TEXTURE. PAINT. 074646
9. 1/4" FIBER CEMENT BOARD TRIM. WOOD GRAIN TEXTURE. PAINT. FLASH HORIZONTAL TRIM PER MFR'S RECOMMENDATIONS. 074646
10. 1/4" FIBER CEMENT FASCIA. WOOD GRAIN TEXTURE. PAINT. 074646
11. PRE-FINISHED ALUMINUM GUARD RAIL W/ VERTICAL PICKETS SPACED 4" MAX O.C. COLOR TO BE SELECTED FROM MFR'S FULL COLOR RANGE. TOP OF GUARDRAIL TO BE AT 42" MIN. ABOVE FINISHED DECK. 065215
12. COMPOSITE WOOD DECKING. 1" X 6" NOMINAL GROOVED BOARD. DECK TO BE 1/2" MAX. BELOW INTERIOR FINISHED FLOOR LEVEL. 061535
13. COMPOSITE WOOD FASCIA ATTACHED TO DECK FRAMING. COLOR & FINISH TO MATCH COMPOSITE DECKING. 061535
14. TREATED TIMBER COLUMN. KDAT. STAIN TO MATCH COMPOSITE DECKING. RE: STRUCTURAL.
15. TREATED TIMBER BRACE. KDAT. STAIN TO MATCH COMPOSITE DECKING. RE: STRUCTURAL.
16. TREATED WOOD FRAMING. KDAT. STAIN TO MATCH COMPOSITE DECKING. RE: STRUCTURAL.
17. COMPOSITE WOOD FASCIA TO BE USED AS COLUMN BASE TRIM. 061535
18. ARCHITECTURAL ASPHALT SHINGLE ROOFING SYSTEM. COLOR TO BE 'CHARCOAL'. RE: ROOF FLAN. 075115
19. PRE-FINISHED 6" COMMERCIAL METAL GUTTER. 076200
20. PRE-FINISHED SHEET METAL ROOF DRIP EDGE FLASHING. COLOR TO MATCH ROOFING. 076200
21. MANUFACTURED STONE VENEER. 042115
22. MANUFACTURED STONE WATER TABLE SILL CAP. ALIGN GAP W/ WINDOW SILL OR FLOOR LINE AS SHOWN ON ELEVATION. 042115
23. MANUFACTURED STONE WINDOW SILL. 042115
24. MANUFACTURED STONE ROWLOCK WINDOW HEADER. 042115
25. EXTERIOR LIGHT SCONCE CENTERED ABOVE DOOR. MOUNT BOTTOM OF ELECTRICAL BOX AT TOP OF DOOR HEADER (1'-6" ± AFF). PROVIDE FIBER CEMENT 'TRIM BLOCK'. RE: MEP.
26. MECHANICAL THROUGH WALL EXHAUST VENTS. COLOR TO BE WHITE. PROVIDE FIBER CEMENT 'TRIM BLOCK'. RE: MEP.
27. CONCRETE ENTRY PAVEMENT. SLOPE AWAY FROM BUILDING AT 5% SLOPE MAX. CROSS SLOPE NOT TO EXCEED 2% SLOPE. RE: CIVIL.
28. CONCRETE PATIO. PATIO ELEVATION TO BE 5" BELLOM FINISH FLOOR U.N.O. RE: STRUCTURAL.
29. CONCRETE FOUNDATION. RE: STRUCTURAL.
30. REINFORCED CONCRETE SLAB OVER 15 MIL VAPOR BARRIER. RE: STRUCTURAL.
31. WOOD HEADER. RE: STRUCTURAL.
32. GYPSUM BOARD (GYP BD) WINDOW HEAD & JAMB RETURN PAINT.
33. 1 X EASED EDGE WOOD WINDOW STOOL & 3/4" X 2 1/2" WOOD APRON. PAINT. 062025
34. 5/8" FIRE RATED (GYP BD) ON 1/8" HAT CHANNEL PER FLOOR/CEILING ASSEMBLY TYPE 'A'. RE: A02
35. PRE-ENGINEERED WOOD FLOOR TRUSS. RE: STRUCTURAL.
36. PRE-ENGINEERED WOOD ROOF TRUSS. SLOPE PER ROOF PLAN. RE: STRUCTURAL.
37. FIBER CEMENT BEAD BOARD SOFFIT PANEL. 074646
38. CONTINUOUSLY VENTED FIBER CEMENT SOFFIT PANEL. 074646
39. 2 X ROOF RAFTER LEDGER. & HANGER. ALTERNATIVELY PROVIDED AS ROOF TRUSS TOP CHORD EXTENSION. RE: STRUCTURAL.
40. MIN. R-38 BLOWN-IN INSULATION. 071200
41. PROVIDE RAFTER BAFFLE AT EACH TRUSS BAY. 071200
42. 3/2" BATT INSULATION. 071200
43. 3/4" GYPSUM FLOOR UNDERLAYMENT ON 3/4" TONGUE & GROOVE PLYWOOD. 025415
44. MIN. R-20 BATT INSULATION. 071200
45. 5/8" FIRE RATED GYP BD ON 1/8" HAT CHANNEL PER 1 HR FIRE RATED ROOF ASSEMBLY PER ROOF/CEILING ASSEMBLY TYPE 'A'. RE: A02
46. 5/8" GYP BD. RE: FLOOR PLANS FOR FIRE RATING. PAINT.
47. 1/6" OSB EXTERIOR WALL SHEATHING WITH WEATHER BARRIER. RE: STRUCTURAL.
48. PRE-FINISHED METAL FLASHING W/ HEMMED EDGE. PROVIDE DRIP EDGE WHERE REQUIRED. 071000
49. 2 X EXTERIOR TREATED WOOD JOIST. KDAT. STAIN TO MATCH COMPOSITE DECKING. RE: STRUCTURAL.
50. 2 X 6 TREATED BOTTOM PLATE W/ FOAM SILL SEALER. TERMITE SHIELD. & ANCHOR BOLT. RE: STRUCTURAL. 51516
51. MINIMUM 1/4" GAP. DO NOT CAULK.
52. ADA COMPLIANT ALUMINUM DOOR THRESHOLD. SET IN BED OF SEALANT.
53. 1/4" CONCRETE EXPANSION MATERIAL.
54. CONTINUOUS SEALANT. PROVIDE BACKER ROD AS REQUIRED. 079200
55. DOUBLE STUD AT JAMB CONDITION. TYPICAL.
56. WOOD BLOCKING/ NAILER AS REQUIRED.
57. TREATED STRUCTURAL WOOD LEDGER. RE: STRUCTURAL. PROVIDE 1/2" NEOPRENE WASHERS BETWEEN LEDGER & SHEATHING/ WEATHER BARRIER TO ALLOW FOR DRAINAGE.
58. 36" X 36" FIRE RATED INSULATED ACCESS DOOR W/ LOCK. PRIMED FOR PAINTING. MOUNT 12" AFF. INCLUDE 3/4" X 1/2" WOOD TRIM AROUND OPENING. PAINT TRIM TO MATCH WALL.
59. 2 X OUTRIGGER. RE: STRUCTURAL.
60. 1/4" PLYWOOD ROOF SHEATHING. RE: STRUCTURAL.
61. 2 X WOOD FLOOR JOIST. RE: STRUCTURAL.
62. 5/8" FIRE RATED GYP BD ATTACHED DIRECTLY TO 2 X WOOD FLOOR JOIST PER 1 HR FIRE RATED FLOOR/CEILING TYPE 'A'. RE: A02
63. 5/8" GYP BD ON DRYWALL. SUSPENSION GRID SYSTEM BY CHICAGO METALLIC OR APPROVED OTHER. INSTALL PER MFR'S RECOMMENDATIONS. INSTALL AFTER FIRE RATED ASSEMBLY INSTALLATION. COORDINATE SUSPENSION HIRE INSTALLATION WITH ALL MEP TRADES. RE: RCP
64. COMPOSITE TRIM TO MATCH COMPOSITE DECKING. ANCHOR TO EDGE OF CONCRETE SLAB. 061535
65. WEAP SCREED / TRANSITION. RE: MFR'S RECOMMENDATIONS FOR HEIGHT ABOVE GRADE. HORIZONTAL SURFACES. & CONC. WALK.
66. CONTINUOUS 2 X PURLIN. RE: STRUCTURAL.
67. MORTAR SETTING BED OVER METAL LATHE & SCRATCH COAT. INSTALL 2 LAYERS OF WEATHER BARRIER OVER SHEATHING AT AREAS RECEIVING MANUFACTURED STONE. RE: MFR'S INSTRUCTIONS. 042115
68. PRE-FINISHED STEP FLASHING. 076200.
69. 3/4" TONGUE & GROOVE PLYWOOD ON 2 X FLOOR JOISTS. RE: STRUCTURAL.
70. 5/8" GYP BD. ON BOTTOM OF 2 X FLOOR JOISTS.
71. FIRE WALL JOIST HANGER. RE: STRUCTURAL.



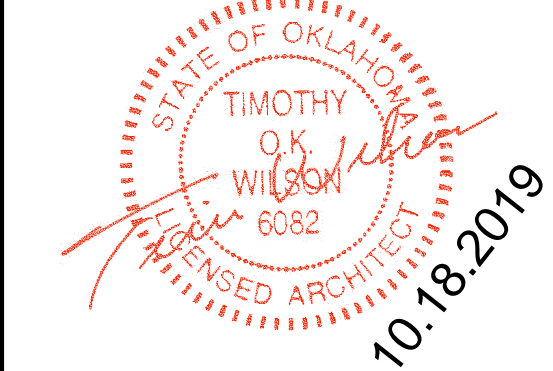
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TIMBER RIDGE COTTAGES

SECTION 8, TOWNSHIP 18, RANGE 15
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STARK WILSON DUNCAN ARCHITECTS INC.
 315 NICHOLS RD. STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

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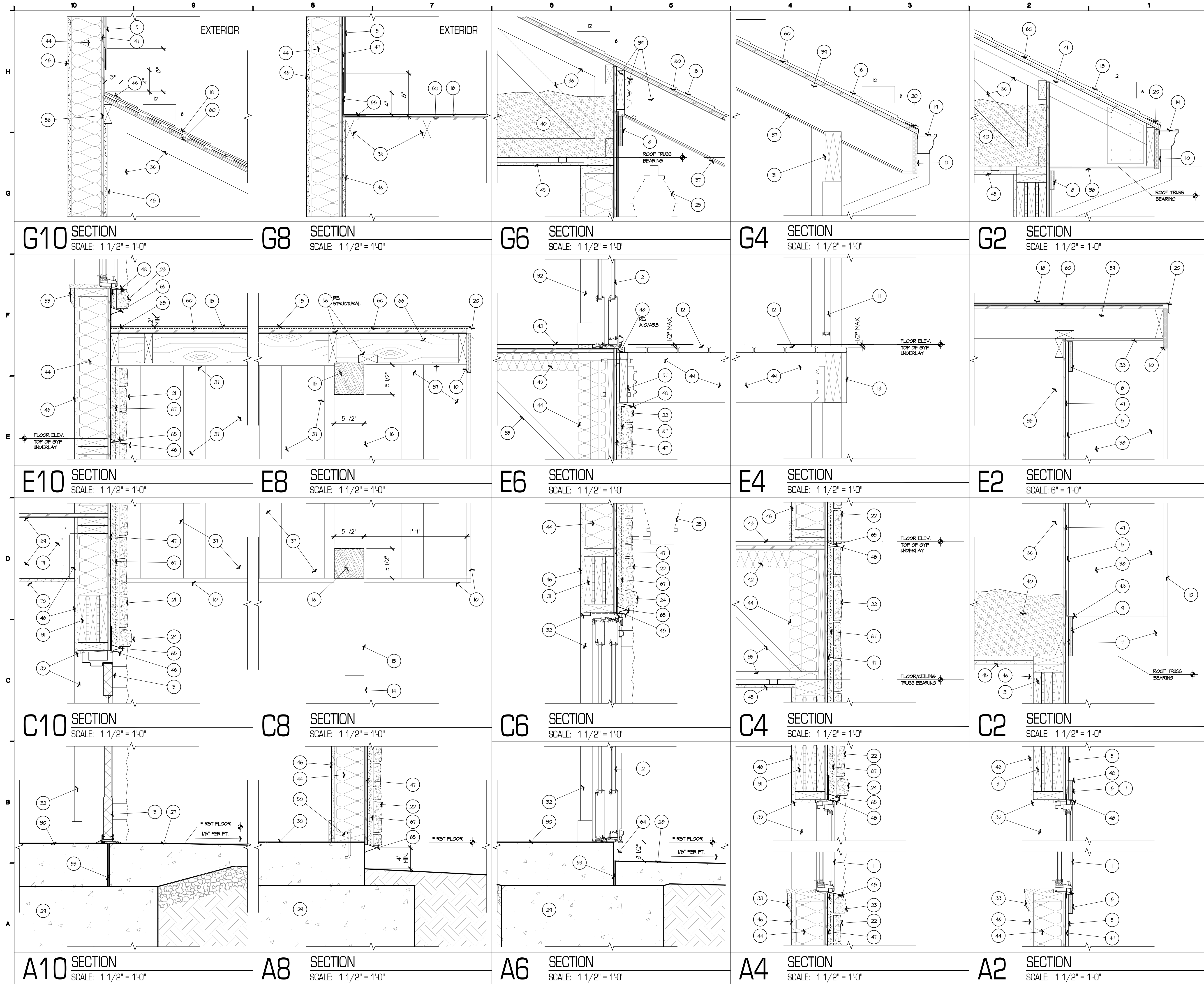
WALL SECTIONS

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KEYNOTES

1. VINYL WINDOW PER SCHEDULE, QUAKER MANCHESTER SERIES BASIS OF DESIGN, INTEGRAL WHITE COLOR, 025513
2. VINYL SLIDING PATIO DOOR, 025513
3. H.M. ENTRY DOOR W/ LITES, PAINT, 021113
4. FIBER CEMENT BOARD LAP SIDING, T' EXPOSURE, WOOD GRAIN TEXTURE, PAINT, 074646
5. FIBER CEMENT VERTICAL SIDING W/ BATTENS AT 16" O.C. CENTER BATTENS WHERE SHOWN, SHROTTA PANEL TEXTURE & WOOD GRAIN BATTEN TEXTURE, COLOR AS INDICATED, 074646
6. 3/12" FIBER CEMENT BOARD WINDOW TRIM, WOOD GRAIN TEXTURE, PAINT, FLASH PER MFR'S RECOMMENDATIONS, 074646
7. FURR OUT TRIM AS REQUIRED TO BE FLUSH W/ VERTICAL BATTEN BOARDS.
8. 3/12" FIBER CEMENT BOARD TRIM, WOOD GRAIN TEXTURE, PAINT, FLASH HORIZONTAL TRIM PER MFR'S RECOMMENDATIONS, 074646
9. 1/4" FIBER CEMENT BOARD TRIM, WOOD GRAIN TEXTURE, PAINT, FLASH HORIZONTAL TRIM PER MFR'S RECOMMENDATIONS, 074646
10. 1/4" FIBER CEMENT FASCIA, WOOD GRAIN TEXTURE, PAINT, 074646
11. PRE-FINISHED ALUMINUM GUARD RAIL W/ VERTICAL PICKETS SPACED 4" MAX O.C. COLOR TO BE SELECTED FROM MFR'S FULL COLOR RANGE, TOP OF SUBSTRATE TO BE AT 42" MIN. ABOVE FINISHED DECK, 025513
12. COMPOSITE WOOD DECKING, 1" X 6" NOMINAL GROOVED BOARD, DECK TO BE 1/2" MAX. BELOW INTERIOR FINISHED FLOOR LEVEL, 025513
13. COMPOSITE WOOD FASCIA ATTACHED TO DECK FINISHING COLOR & FINISH TO MATCH COMPOSITE DECKING, 025513
14. TREATED TIMBER COLUMN, KDAT, STAIN TO MATCH COMPOSITE DECKING, RE: STRUCTURAL
15. TREATED TIMBER BRACE, KDAT, STAIN TO MATCH COMPOSITE DECKING, RE: STRUCTURAL
16. TREATED WOOD FRAMING, KDAT, STAIN TO MATCH COMPOSITE DECKING, RE: STRUCTURAL
17. COMPOSITE WOOD FASCIA TO BE USED AS COLUMN BASE TRIM, 025513
18. ARCHITECTURAL ASPHALT SINGLE ROOFING SYSTEM, COLOR TO BE CHARCOAL, RE: ROOF PLAN, 071313
19. PRE-FINISHED 6" COMMERCIAL METAL GUTTER, 076200
20. PRE-FINISHED SHEET METAL ROOF DRIP EDGE FLASHING, COLOR TO MATCH ROOFING, 076200
21. MANUFACTURED STONE VENEER, 042113
22. MANUFACTURED STONE WATER TABLE SILL CAP, ALIGN CAP W/ WINDOW SILL OR FLOOR LINE AS SHOWN ON ELEVATION, 042113
23. MANUFACTURED STONE WINDOW SILL, 042113
24. MANUFACTURED STONE ROYALOCK WINDOW HEADER, 042113
25. EXTERIOR LIGHT SCONCE CENTERED ABOVE DOOR, MOUNT BOTTOM OF ELECTRICAL BOX AT TOP OF DOOR HEADER (1'-6" AFF). PROVIDE FIBER CEMENT TRIM BLOCK, RE: MEP
26. MECHANICAL THROUGH WALL EXHAUST VENTS, COLOR TO BE WHITE, PROVIDE FIBER CEMENT TRIM BLOCK, RE: MEP
27. CONCRETE ENTRY PAVEMENT, SLOPE AWAY FROM BUILDING AT 2% SLOPE MAX, CROSS SLOPE NOT TO EXCEED 2% SLOPE, RE: CIVIL
28. CONCRETE PATIO, PATIO ELEVATION TO BE 35" BELOW FINISH FLOOR U.O. RE: STRUCTURAL
29. CONCRETE FOUNDATION, RE: STRUCTURAL
30. REINFORCED CONCRETE SLAB OVER 15 MIL VAPOR BARRIER, RE: STRUCTURAL
31. WOOD HEADER (GYP ED) WINDOW HEAD & JAMB RETURN, PAINT
32. 1" X EASED EDGE WOOD WINDOW STOOL & 3/4" X 2 1/2" WOOD APRON, PAINT, 022023
33. 5/8" FIRE RATED (GYP ED) ON 1/8" HAT CHANNEL PER FLOOR/CEILING ASSEMBLY TYPE 'A', RE: A02
34. PRE-ENGINEERED WOOD FLOOR TRUSS, RE: STRUCTURAL
35. PRE-ENGINEERED WOOD ROOF TRUSS, SLOPE PER ROOF PLAN, RE: STRUCTURAL
36. FIBER CEMENT BEAD BOARD SOFFIT PANEL, 074646
37. CONTINUOUSLY VENTED FIBER CEMENT SOFFIT PANEL, 074646
38. 2" X ROOF RAFTER LEDGER & HANGER, ALTERNATIVELY PROVIDED AS ROOF TRUSS TOP CHORD EXTENSION, RE: STRUCTURAL
39. MIN. R-38 BLOWN-IN INSULATION, 071200
40. PROVIDE RAFTER BAFFLE AT EACH TRUSS BAY, 071200
41. 3/12" BATT INSULATION, 071200
42. 3/4" GYPSUM FLOOR UNDERLAYMENT ON 5/4" TONGUE & GROOVE PLYWOOD, 025413
43. MIN. R-30 BATT INSULATION, 071200
44. 5/8" FIRE RATED GYP ED ON 1/8" HAT CHANNEL PER 1 HR FIRE RATED ROOF ASSEMBLY PER ROOF/CEILING ASSEMBLY TYPE 'A', RE: A02
45. 5/8" GYP ED, RE: FLOOR PLANS FOR FIRE RATING, PAINT
46. 1/16" OSB EXTERIOR WALL SHEATHING WITH WEATHER BARRIER, RE: STRUCTURAL, 072500
47. PRE-FINISHED METAL FLASHING W/ HEMMED EDGE, PROVIDE DRIP EDGE WHERE REQUIRED, 071100
48. 2" X EXTERIOR TREATED WOOD JOIST, KDAT, STAIN TO MATCH COMPOSITE DECKING, RE: STRUCTURAL
49. 2" X 6" TREATED BOTTOM PLATE W/ FOAM SILL SEALER, TERMITES SHIELD, & ANCHOR BOLT, RE: STRUCTURAL, 51116
50. MINIMUM 1/4" GAP, DO NOT CAULK
51. ADA COMPLIANT ALUMINUM DOOR THRESHOLD, SET IN BED OF SEALANT
52. 1/4" CONCRETE EXPANSION MATERIAL
53. CONTINUOUS SEALANT, PROVIDE BACKER ROD AS REQUIRED, 075200
54. DOUBLE STUD AT JAMB CONDITION TYPICAL
55. WOOD BLOCKING/ NAILER AS REQUIRED
56. TREATED STRUCTURAL WOOD LEDGER, RE: STRUCTURAL, PROVIDE 1/2" NEOPRENE WASHERS BETWEEN LEDGER & SHEATHING/ WEATHER BARRIER TO ALLOW FOR DRAINAGE
57. 36" X 36" FIRE RATED INSULATED ACCESS DOOR W/ LOCK, PRIME FOR PAINTING, MOUNT 12" AFF, INCLUDE 3/4" X 2 1/2" WOOD TRIM AROUND OPENING, PAINT TRIM TO MATCH WALL
58. 2" X OUTRIGGER, RE: STRUCTURAL
59. 1/4" PLYWOOD ROOF SHEATHING, RE: STRUCTURAL
60. 2" X WOOD FLOOR JOIST, RE: STRUCTURAL
61. 5/8" FIRE RATED GYP ED ATTACHED DIRECTLY TO 2" X WOOD FLOOR JOIST PER 1 HR FIRE RATED FLOOR/CEILING TYPE 'A', RE: A02
62. 5/8" GYP ED ON DRYWALL SUSPENSION GRID SYSTEM BY CHICAGO METALLIC OR APPROVED OTHER, INSTALL PER MFR'S RECOMMENDATIONS, INSTALL AFTER FIRE RATED ASSEMBLY INSTALLATION, COORDINATE SUSPENSION WIRE INSTALLATION WITH ALL MEP TRADES, RE: RCP
63. COMPOSITE TRIM TO MATCH COMPOSITE DECKING, ANCHOR TO EDGE OF CONCRETE SLAB, 025513
64. KEEP SCAFFOLD / TRANSITION, RE: MFR REQUIREMENTS FOR HEIGHT ABOVE GRADE, HORIZONTAL SURFACES, & CONC. WALK
65. CONTINUOUS 2" X PURLIN, RE: STRUCTURAL
66. PRE-FINISHED STEP FLASHING, 076200
67. 3/4" TONGUE & GROOVE PLYWOOD ON 2" X FLOOR JOISTS, RE: STRUCTURAL
68. 5/8" GYP ED, ON BOTTOM OF 2" X FLOOR JOISTS
69. FIRE WALL JOIST HANGER, RE: STRUCTURAL



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SECTIONS & DETAILS

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KEY NOTES

- MIRROR, FULL LENGTH OF VANITY, UNLESS NOTED OTHERWISE, REFER TO SPEC. SECTION 088500.
- WOOD CABINETS, RE. GENERAL NOTES.
- TOILET (ADA COMPLIANT IF NOTED), RE. PLUMBING.
- INSTALL SHOWER AFTER FIRE RATED WALL GYPSUM BOARD IS INSTALLED. INSTALL ONE ADDITIONAL LAYER OF GYPSUM BOARD, FLUSH W/ ADJACENT WALL (ADJUST STUD DEPTH AS NEEDED), ON FIRE RATED WALL TO COVER SHOWER NAILING FINIS. TYPICAL ALL SIMILAR LOCATIONS.
- 1 PIECE FIBERGLASS ADA TRANSFER SHOWER, 36" X 56" CLEAR W/ INTEGRAL WOOD BLOCKING AT HEAD, FOOT & SIDE OF TUB ENCLOSURE BY MANUFACTURER FOR GRAB BAR INSTALLATION IGC ANSI A117.1-2004 COMPLIANT. MANUFACTURER TO PROVIDE SHOWER W/ COMPLIANT GRAB BARS. SEAT: HAND-HELD SHOWER ASSEMBLY WITH SLIDE BAR, PRESSURE BALANCING MIXING VALVE, SOAP DISH AND CURTAIN ROD, @.G. TO VERIFY LEFT & RIGHT HAND UNITS, RE. PLUMBING.
- BASE PER FINISH SCHEDULE.
- GYPSUM BOARD WALL CONSTRUCTION. PAINT.
- INSTALL FLOOR FINISH & BASE UNDER REMOVABLE BASE CABINET, PAINT WALLS & INSULATE ALL EXPOSED PIPING.
- 2X WOOD BLOCKING CONTINUOUS, INDICATED BY HATCHED AREA FOR SCHEDULED & FUTURE INSTALLATION OF GRAB BARS PER IGC ANSI A117.1-2004. TYPICAL.
- FILLER PIECE, MATCH CABINET STYLE.
- 1" DISHWASHER END PANEL, MATCH CABINET STYLE.
- BATHUB / SHOWER VALVE CONTROL AREA, TYPICAL.
- 1 1/2" THICK PLASTIC LAMINATE POST FORM COUNTERTOP WITH 4" BACKSPLASH & RETURN WHERE SHOWN, RE. SPEC. SECTION 129620.05.
- 1 1/2" REFRIGERATOR END PANEL.
- IN ACCESSIBLE KITCHENS, TOP OF ELECT. BOXES (SWITCHES TO CONTROL GARBAGE DISPOSAL, RANGE HOOD LIGHT, RANGE HOOD FAN, ETC.) & OUTLETS AT 3'-0" AFF. RE. ELEC. PLANS.
- ELEC. DEVICE, RE. ELEC. PLANS FOR DEVICE TYPE.
- 1/2" X 2" WOOD BASE, PAINT.
- 1/2" X 2" WOOD TRIM UNDER COUNTER, PAINT.
- ADA SHOWER CONTROL & HAND SHOWER, HAND SHOWER TO HAVE MIN 94" HOSE & ADJUSTABLE HEIGHT SHOWER HEAD MOUNTED ON A 30" VERTICAL BAR, RE. PLUMBING PLANS.
- 20" DEEP WIRE SHELVING, COLOR WHITE.
- 1/4" THICK BEAD BOARD PANEL, PROVIDE 1/2" X 1/2" WOOD @ CORNERS OVER BEAD BOARD, PAINT.

GENERAL NOTES

- IN ALL UNIT BATHS, CONTRACTOR SHALL PROVIDE & INSTALL 1 HAND TOWEL RING (6" DIA), ROBE HOOK, 1 TOILET PAPER DISPENSER, SHOWER ROD, & 2 TOWEL BARS (24"). REFER TO SPEC. SECTION 102800.
- CABINETS SHALL BE BY ARMSTRONG, TIARA STYLE (RAISED PANEL MAPLE), MOCHA FINISH. FULLS BY AMERCOCK CORP. FULL STYLE EPS28850. COORDINATE CABINETS INSTALLATION AS REQUIRED PRIOR TO FABRICATION. CONSTRUCT WALLS W/ ROUGH OPENINGS AS NEEDED FOR SIZES OF CABINETS INDICATED. INSTALL MATCHING HOOD SCRIBE AT ALL CABINET / WALL JOINTS. INSTALL MATCHING HOOD QUARTER ROUND BASE SHOE AT ALL TOILETS & END PANELS. FINISH FLOOR JOINTS. TOPSICK TO MATCH CABINETS FINISH. REFER TO SPEC. SECTION 129550.
- COORDINATE CABINETS WITH APPLIANCES FOR PROPER CLEARANCES, OPERATION, ETC. RE. SPEC. SECTION 18300 FOR APPLIANCE INFORMATION.
- PRIOR TO FABRICATION OF CASEWORK, CONTRACTOR SHALL FIELD VERIFY ACTUAL FINISHED WALL DIMENSIONS.
- PROVIDE FINISHED SURFACES ON CABINETS & COUNTERTOPS WHERE EXPOSED TO VIEW.
- INSTALL 5/8" FIRE RATED MOISTURE/MOLD RESISTANT GYP. BD. ON ALL WALLS & CEILING IN BATHS.
- INSTALL 5/8" FIRE RATED MOISTURE/MOLD RESISTANT GYP. BD. ON FILL HEIGHT ON CABINET WALLS A MIN. OF 12" BEYOND EXTENTS OF CABINETS IN KITCHENS.
- UTILIZE 2X WOOD BLOCKING AS REQUIRED FOR INSTALLATION OF CABINETS, ACCESSORIES, ETC.
- ARCHITECT TO SELECT ALL COLORS, FINISHES, ETC.
- CAULK ALL COUNTERTOP & BACKSPLASH / @.B. WALL JOINTS. SET SINKS IN A BED OF CAULK. CAULK TO BE CLEAR.

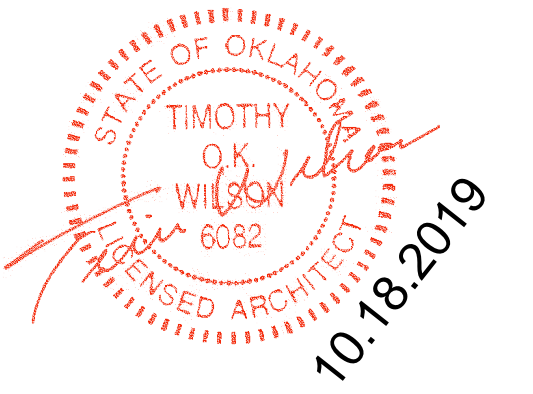
TOILET ACCESSORIES

LEGEND

- NOTE: CONTRACTOR SHALL INSTALL ALL REQUIRED 2X WOOD BLOCKING FOR A PROPER INSTALLATION OF TOILET ACCESSORIES. REFER TO @2/A.3 FOR MOUNTING HEIGHTS. REFER TO SPEC. SECTION 102800 FOR ADDITIONAL INFORMATION.
- TA-1 TOILET TISSUE DISPENSER
 - TA-2 SHOWER CURTAIN ROD
 - TA-3 24" TOWEL BAR
 - TA-4 HAND TOWEL RING
 - TA-5 ROBE HOOK
 - TA-6 42" GRAB BAR
 - TA-7 36" GRAB BAR

2X WOOD BLOCKING, REFER TO ELEVATIONS FOR LOCATIONS
APARTMENT UNIT TOILET ACCESSORIES BY MOEN, VALE STYLE, BRUSHED NICKEL FINISH.

SEAL
ARCHITECT - TIMOTHY O.K. WILSON
LICENSE NO. 6082

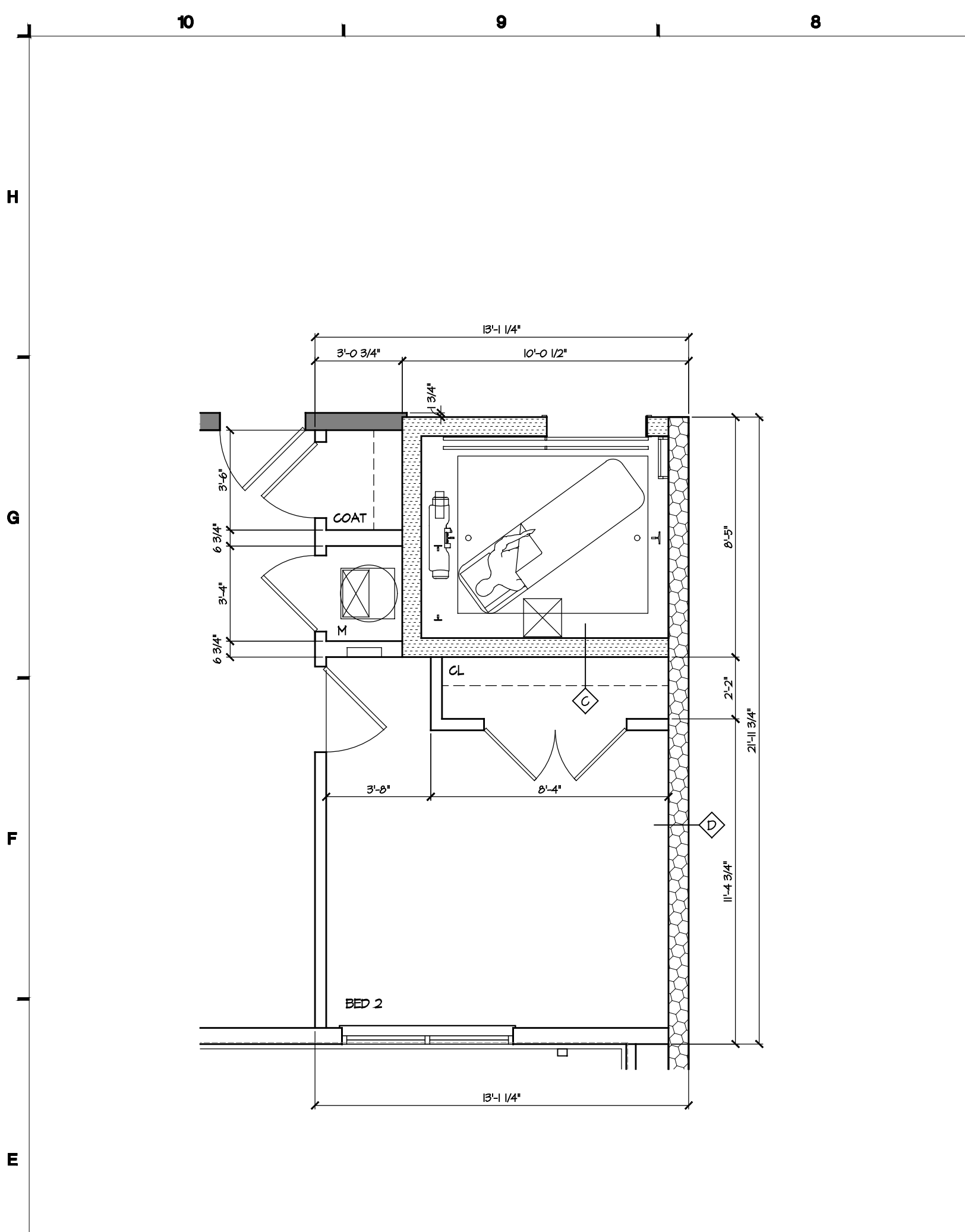


ENLARGED UNIT
PLANS

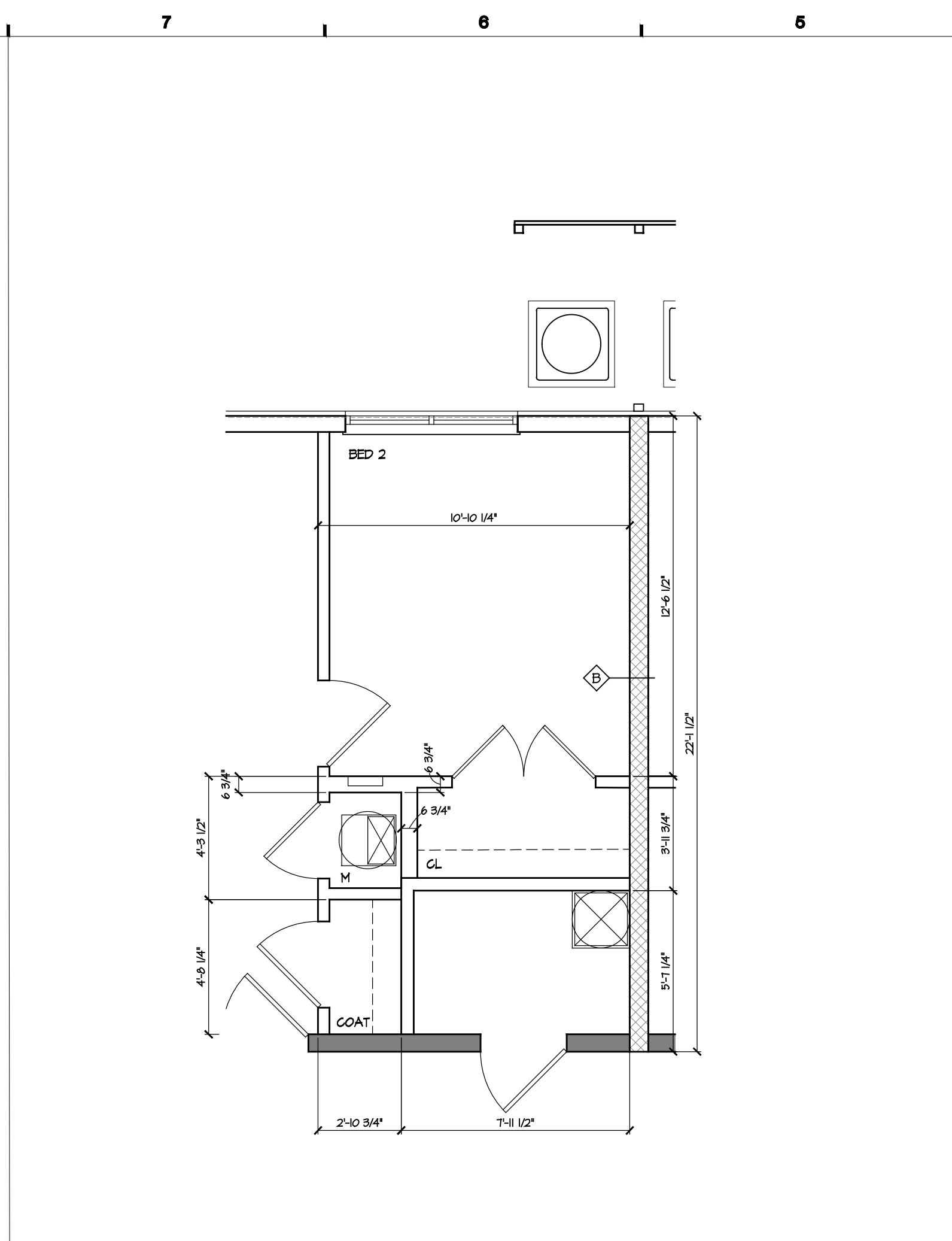
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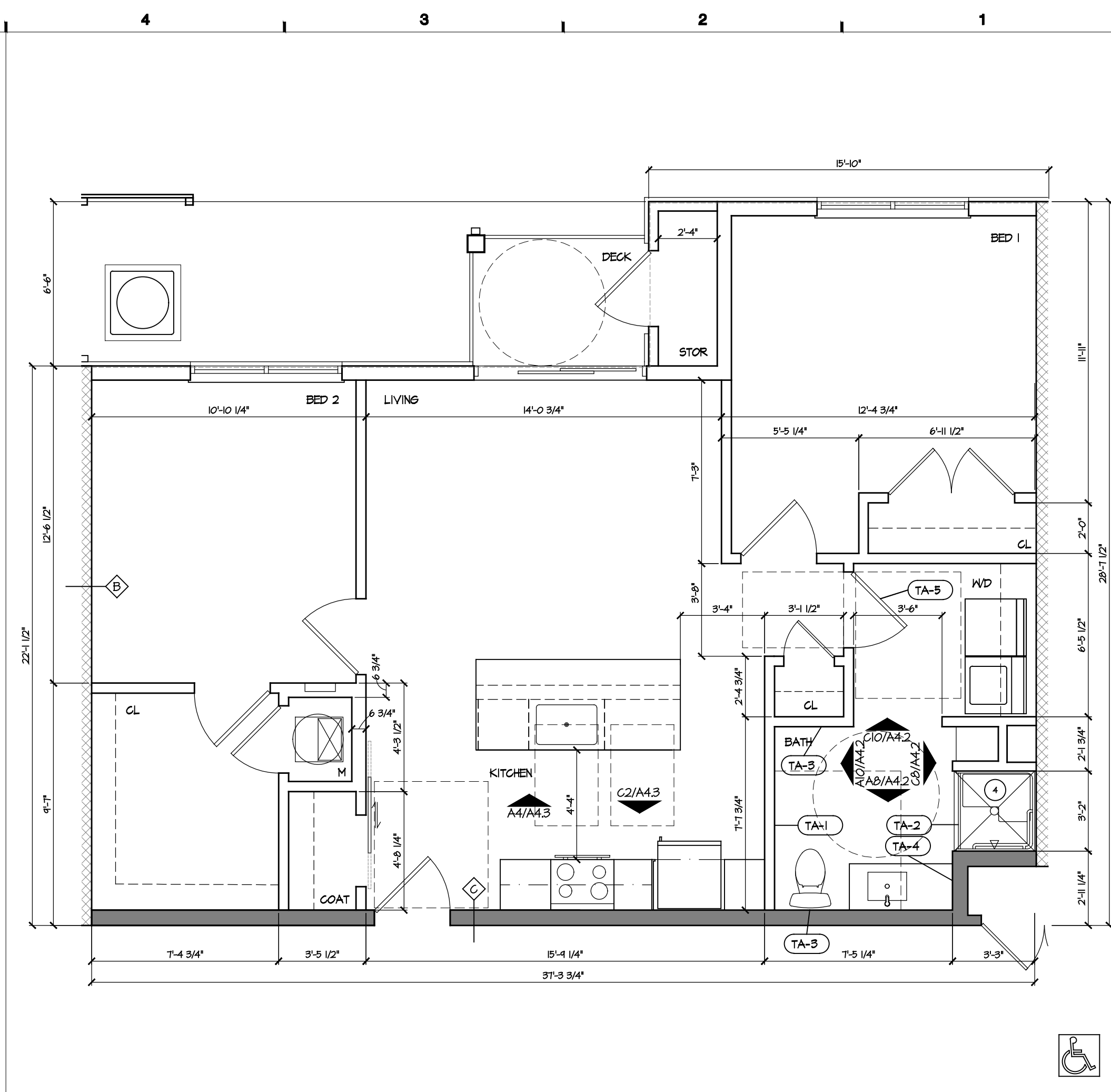
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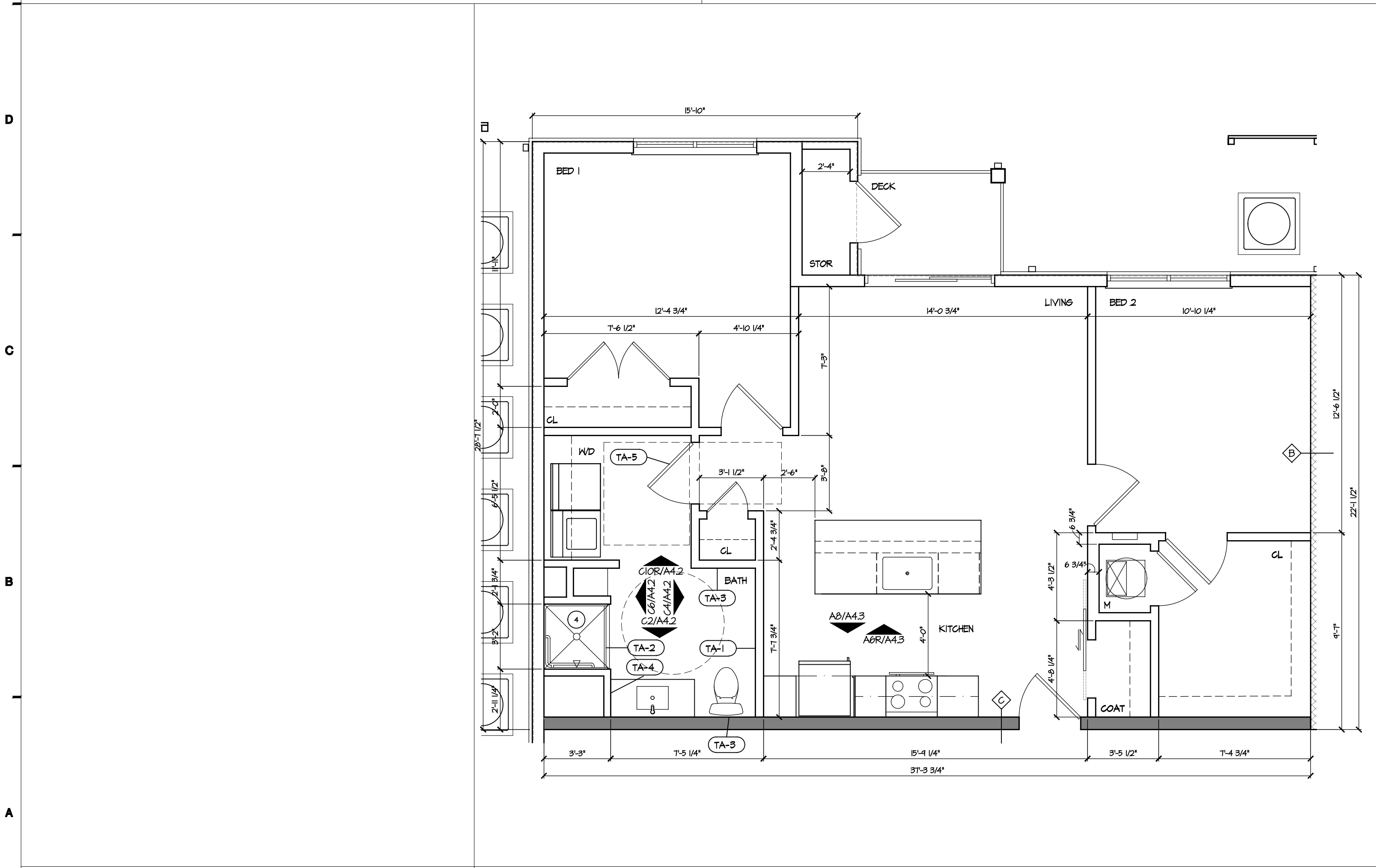
E10 PARTIAL ENLARGED UNIT VARIATION
SCALE: 1/4" = 1'-0" (UNITS 105, 205, 305, 404)



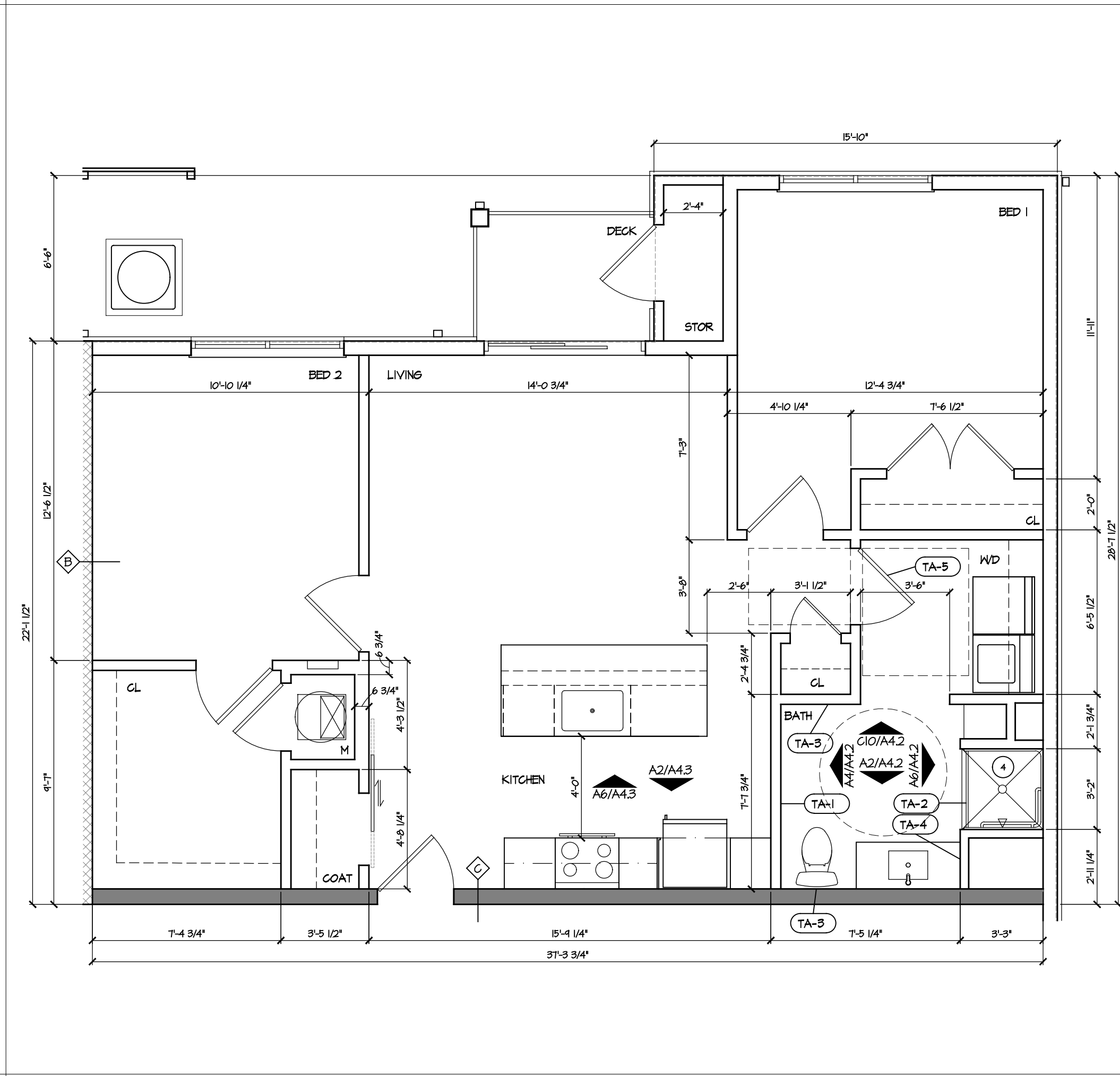
E6 PARTIAL ENLARGED UNIT VARIATION
SCALE: 1/4" = 1'-0" (UNITS 106, 206, 306, 403)



E2 ENLARGED ACCESSIBLE UNIT
SCALE: 1/4" = 1'-0" (UNIT 104)



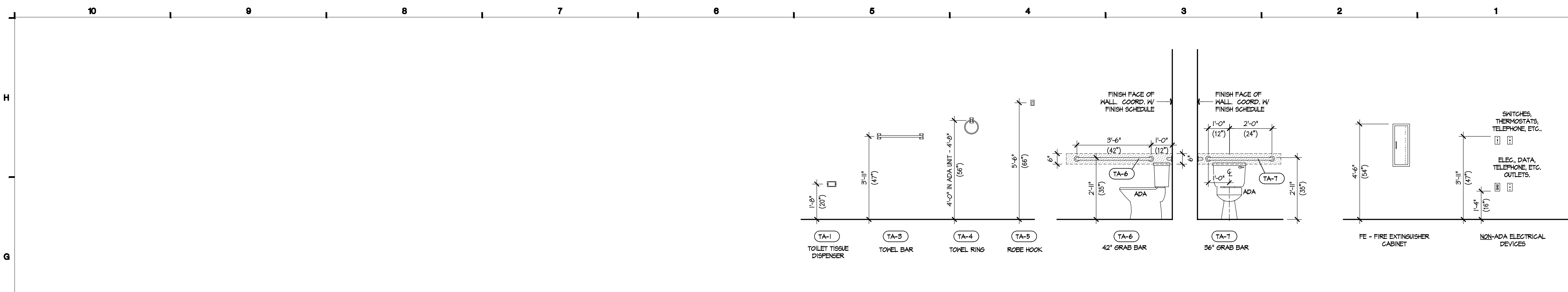
A6 ENLARGED TYP. UNIT PLAN (REV.)
SCALE: 1/4" = 1'-0"



A2 ENLARGED TYPICAL UNIT PLAN
SCALE: 1/4" = 1'-0"

A10 NOT USED
SCALE: NTS

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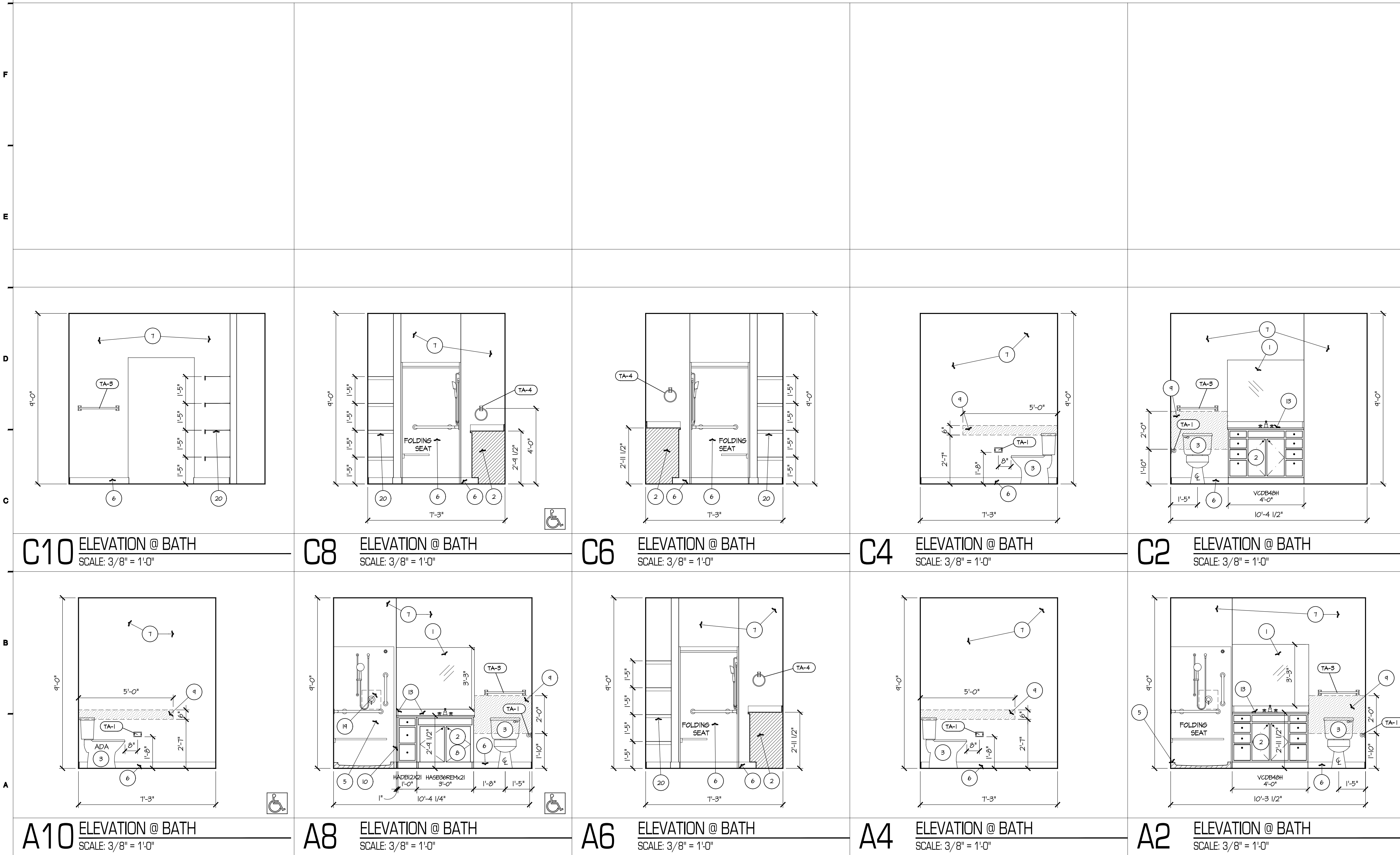
G2 TYPICAL MOUNTING HGT. LEGEND
 SCALE: 3/8" = 1'-0"

KEY NOTES

- MIRROR, FULL LENGTH OF VANITY, UNLESS NOTED OTHERWISE. REFER TO SPEC. SECTION 080300.
- WOOD CABINETS. RE. GENERAL NOTES.
- TOILET (ADA COMPLIANT IF NOTED). RE. PLUMBING.
- INSTALL SHOWER AFTER FIRE RATED WALL GYPSUM BOARD IS INSTALLED. INSTALL ONE ADDITIONAL LAYER OF GYPSUM BOARD, FUSH IN ADJACENT WALL (ADJUST STUD DEPTH AS NEEDED), ON FIRE RATED WALL TO COVER SHOWER NAILING FINIS. TYPICAL ALL SIMILAR LOCATIONS.
- 1 PIECE FIBERGLASS ADA TRANSFER SHOWER, 36" X 56" CLEAR W/ INTEGRAL WOOD BLOCKING AT HEAD, FOOT & SIDE OF TUB ENCLOSURE BY MANUFACTURER FOR GRAB BAR INSTALLATION IGC ANSI A117-2004 COMPLIANT. MANUFACTURER TO PROVIDE SHOWER W/ COMPLIANT GRAB BARS. SEAT-HANDHELD SHOWER ASSEMBLY WITH SLIDE BAR, PRESSURE BALANCING MIXING VALVE, SOAP DISH AND CURTAIN ROD, S.G. TO VERIFY LEFT & RIGHT HAND UNITS. RE. PLUMBING.
- BASE PER FINISH SCHEDULE.
- GYPSUM BOARD WALL CONSTRUCTION. PAINT.
- INSTALL FLOOR FINISH & BASE UNDER REMOVABLE BASE CABINET, PAINT WALLS & INSULATE ALL EXPOSED PIPING.
- 2X WOOD BLOCKING CONTINUOUS, INDICATED BY HATCHED AREA, FOR SCHEDULE & FUTURE INSTALLATION OF GRAB BARS PER IGC/ANSI A117-2004. TYPICAL.
- FILLER PIECE. MATCH CABINET STYLE.
- 1" DISHWASHER END PANEL. MATCH CABINET STYLE.
- BATHUB / SHOWER VALVE CONTROL AREA. TYPICAL.
- 1 1/2" THICK PLASTIC LAMINATE POST FORM COUNTERTOP WITH 4" BACKSPLASH & RETURN WHERE SHOWN. RE. SPEC. SECTION 120625.03.
- 1 1/2" REFRIGERATOR END PANEL.
- IN ACCESSIBLE KITCHENS, TOP OF ELEC. BOXES SWITCHES TO CONTROL GARBAGE DISPOSAL, RANGE HOOD LIGHT, RANGE WOOD PAN, ETC.) & OUTLETS AT 5'-0" AFF. RE. ELEC. PLANS.
- ELEC. DEVICE. RE. ELEC. PLANS FOR DEVICE TYPE.
- 1/2" X 4" WOOD BASE. PAINT.
- ADA SHOWER CONTROL & HAND SHOWER. HAND SHOWER TO HAVE MIN 5/8" HOSE & ADJUSTABLE HEIGHT SHOWER HEAD MOUNTED ON A 30" VERTICAL BAR. RE. PLUMBING PLANS.
20. 20" DEEP WIRE SHELVING, COLOR WHITE.
- 1/4" THICK BEAD BOARD PANEL. PROVIDE 1/2" X 1/2" WOOD @ CORNERS OVER BEAD BOARD. PAINT.

GENERAL NOTES

- IN ALL UNIT BATHS, CONTRACTOR SHALL PROVIDE & INSTALL 1 HAND TOWEL RING (6" DIA), 1 ROBE HOOK, 1 TOILET PAPER DISPENSER, SHOWER ROD, & 2 TOWEL BARS (24"). REFER TO SPEC. SECTION 102200.
- CABINETS SHALL BE BY AMEROCK, TIARA STYLE (RAISED PANEL MAPLE), MOCHA FINISH. FULLS BY AMEROCK CORP. FULL STYLE SPECIFICATIONS. COORDINATE CABINETS INSTALLATION AS REQUIRED PRIOR TO FABRICATION. CONSTRUCT WALLS W/ ROUGH OPENINGS AS NEEDED FOR SIZES OF CABINETS INDICATED. INSTALL MATCHING WOOD SCRIBE AT ALL CABINET / WALL JOINTS. INSTALL MATCHING WOOD QUARTER ROUND BASE SHOE AT ALL TOILETS & END PANELS. FINISH FLOOR JOINTS. TOISCKA TO MATCH CABINETS FINISH. REFER TO SPEC. SECTION 120550.
- COORDINATE CABINETS WITH APPLIANCES FOR PROPER CLEARANCES, OPERATION, ETC.. RE. SPEC SECTION 18100 FOR APPLIANCE INFORMATION.
- PRIOR TO FABRICATION OF CASEWORK, CONTRACTOR SHALL FIELD VERIFY ACTUAL FINISHED WALL DIMENSIONS.
- PROVIDE FINISHED SURFACES ON CABINETS & COUNTERTOPS WHERE EXPOSED TO VIEW.
- INSTALL 5/8" FIRE RATED MOISTURE/MOLD RESISTANT GYP. BD. ON ALL WALLS & CEILINGS IN BATHS.
- INSTALL 5/8" FIRE RATED MOISTURE/MOLD RESISTANT GYP. BD. ON FOR FILL HEIGHT ON CABINET WALLS A MIN. OF 12" BEYOND EXTENTS OF CABINETS IN KITCHENS.
- UTILIZE 2X WOOD BLOCKING AS REQUIRED FOR INSTALLATION OF CABINETS, ACCESSORIES, ETC.
- ARCHITECT TO SELECT ALL COLORS, FINISHES, ETC.
- CAULK ALL COUNTERTOP & BACKSPLASH / G.B. WALL JOINTS. SET SINKS IN A BED OF CAULK. CAULK TO BE CLEAR.



C10 ELEVATION @ BATH
 SCALE: 3/8" = 1'-0"

C8 ELEVATION @ BATH
 SCALE: 3/8" = 1'-0"

C6 ELEVATION @ BATH
 SCALE: 3/8" = 1'-0"

C4 ELEVATION @ BATH
 SCALE: 3/8" = 1'-0"

C2 ELEVATION @ BATH
 SCALE: 3/8" = 1'-0"

A10 ELEVATION @ BATH
 SCALE: 3/8" = 1'-0"

A8 ELEVATION @ BATH
 SCALE: 3/8" = 1'-0"

A6 ELEVATION @ BATH
 SCALE: 3/8" = 1'-0"

A4 ELEVATION @ BATH
 SCALE: 3/8" = 1'-0"

A2 ELEVATION @ BATH
 SCALE: 3/8" = 1'-0"

TOILET ACCESSORIES LEGEND

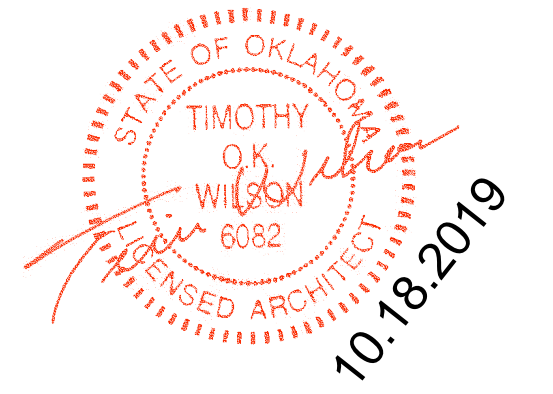
- NOTE: CONTRACTOR SHALL INSTALL ALL REQUIRED 2X WOOD BLOCKING FOR A PROPER INSTALLATION OF TOILET ACCESSORIES. REFER TO G2/A3 FOR MOUNTING HEIGHTS. REFER TO SPEC. SECTION 102200 FOR ADDITIONAL INFORMATION.
- TA-1 TOILET TISSUE DISPENSER
 - TA-2 SHOWER CURTAIN ROD
 - TA-3 24" TOWEL BAR
 - TA-4 HAND TOWEL RING
 - TA-5 ROBE HOOK
 - TA-6 42" GRAB BAR
 - TA-7 36" GRAB BAR
- 2X WOOD BLOCKING, REFER TO ELEVATIONS FOR LOCATIONS
 APARTMENT UNIT TOILET ACCESSORIES BY MOEN, VALE STYLE, BRUSHED NICKEL FINISH.



ARCHITECTURAL CORPORATION
 OKLAHOMA CERTIFICATE
 OF AUTHORITY NO. CA 02479

TIMBER RIDGE COTTAGES
 SECTION 8, TOWNSHIP 18, RANGE 15
 BROKEN ARROW, WAGONER COUNTY, OK

SEAL
 ARCHITECT - TIMOTHY O.K. WILSON
 LICENSE NO. 6082



INTERIOR
 ELEVATIONS

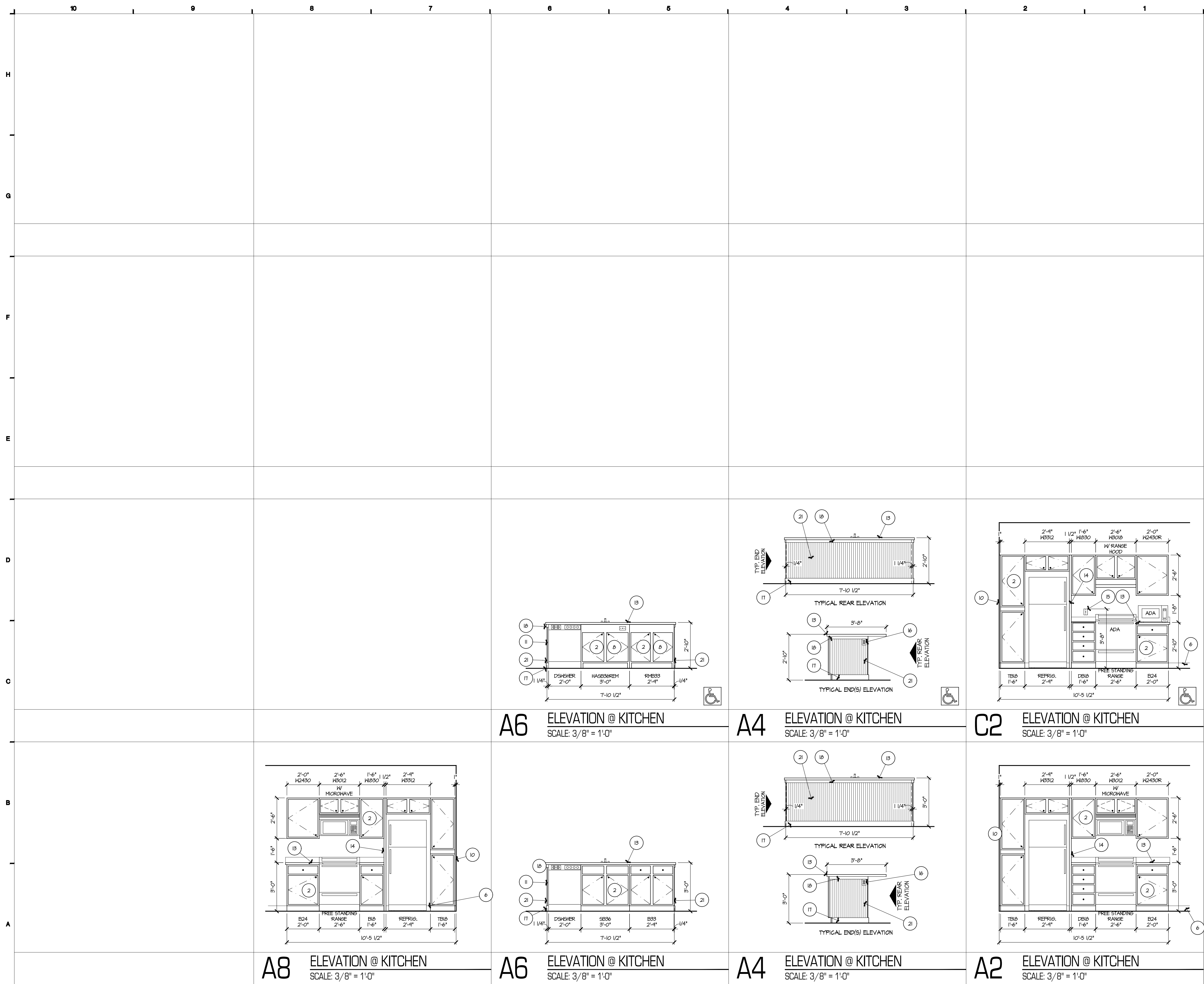
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STARK WILSON DUNCAN ARCHITECTS INC.
 315 NICHOLS RD. STE 228 - KANSAS CITY, MO 64112 - T 816.531.1978 F 816.531.1978

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KEY NOTES

- MIRROR, FULL LENGTH OF VANITY, UNLESS NOTED OTHERWISE, REFER TO SPEC. SECTION 080500.
- WOOD CABINETS, RE: GENERAL NOTES.
- TOILET (ADA COMPLIANT IF NOTED), RE: PLUMBING.
- INSTALL SHOWER AFTER FIRE RATED WALL GYPSUM BOARD IS INSTALLED, INST. ALL ONE ADDITIONAL LAYER OF GYPSUM BOARD, FINISH W/ ADJACENT WALL (ADJUST STUD DEPTH AS NEEDED), ON FIRE RATED WALL TO COVER SHOWER WALLING FINIS. TYPICAL ALL SIMILAR LOCATIONS.
- 1 PIECE FIBERGLASS ADA TRANSFER SHOWER, 36" X 36" CLEAR W/ INTEGRAL WOOD BLOCKING AT HEAD, FOOT & SIDE OF TUB ENCLOSURE BY MANUFACTURER FOR GRAB BAR INSTALLATION (ICC ANS) A117-2004 COMPLIANT. MANUFACTURER TO PROVIDE SHOWER W/ COMPLIANT GRAB BARS, SEAT, HAND-HELD SHOWER ASSEMBLY WITH SLIDE BAR, PRESSURE BALANCING MIXING VALVE, SOAP DISH AND CURTAIN ROD, & C. TO VERIFY LEFT & RIGHT HAND UNITS, RE: PLUMBING.
- BASE PER FINISH SCHEDULE.
- GYPSUM BOARD WALL CONSTRUCTION, PAINT.
- INSTALL FLOOR FINISH & BASE UNDER REMOVABLE BASE CABINET, PAINT WALLS & INSULATE ALL EXPOSED PIPING.
- 2X WOOD BLOCKING CONTINUOUS, INDICATED BY HATCHED AREA FOR SCHEDULED & FUTURE INSTALLATION OF GRAB BARS PER ICC/ANSI A117-2004, TYPICAL.
- FILLER PIECE, MATCH CABINET STYLE.
- 1" DISHWASHER END PANEL, MATCH CABINET STYLE.
- BATHUB / SHOWER VALVE CONTROL AREA, TYPICAL.
- 1/2" THICK PLASTIC LAMINATE POST FORM COUNTERTOP WITH 4" BACKSPASH & RETURN WHERE SHOWN, RE: SPEC. SECTION 126625.
- 1/2" REFRIGERATOR END PANEL.
- IN ACCESSIBLE KITCHENS, TOP OF ELECT. BOXES (SWITCHES TO CONTROL GARBAGE DISPOSAL, RANGE HOOD LIGHT, RANGE HOOD FAN, ETC.) & OUTLETS AT 3'-0" AFF. RE: ELEC. PLANS.
- ELEC. DEVICE, RE: ELEC. PLANS FOR DEVICE TYPE.
- 1/2" X 4" WOOD BASE, PAINT.
- ADA SHOWER CONTROL & HAND SHOWER, HAND SHOWER TO HAVE MIN 3/4" HOSE & ADJUSTABLE HEIGHT SHOWER HEAD MOUNTED ON A 30" VERTICAL BAR, RE: PLUMBING PLANS.
- 20, 20" DEEP WIRE SHELVING, COLOR WHITE.
- 1/4" THICK BEAD BOARD PANEL, PROVIDE 1/2" X 1/2" WOOD @ CORNERS OVER BEAD BOARD, PAINT.

GENERAL NOTES

- IN ALL UNIT BATHS, CONTRACTOR SHALL PROVIDE & INSTALL: 1 HAND TOWEL RING (6" DIA), 1 ROBE HOOK, 1 TOILET PAPER DISPENSER, SHOWER ROD, & 2 TOWEL BARS (24"). REFER TO SPEC. SECTION 102800.
- CABINETS SHALL BE BY ARMSTRONG, TIARA STYLE (RAISED PANEL MAPLE) MOCHA FINISH. FULLS BY AMEROCK CORP. FULL STYLE BPS24B610. COORDINATE CABINETS INSTALLATION AS REQUIRED PRIOR TO FABRICATION. CONSTRUCT WALLS W/ ROUGH OPENINGS AS NEEDED FOR SIZES OF CABINETS INDICATED. INSTALL MATCHING WOOD Scribe AT ALL CABINET / WALL JOINTS. INSTALL MATCHING WOOD QUARTER ROUND BASE SHOE AT ALL TOE-KICK & END PANEL / FINISH FLOOR JOINTS. TOE-KICK TO MATCH CABINETS FINISH, REFER TO SPEC. SECTION 123330.
- COORDINATE CABINETS WITH APPLIANCES FOR PROPER CLEARANCES, OPERATION, ETC. RE: SPEC SECTION 11500 FOR APPLIANCE INFORMATION.
- PRIOR TO FABRICATION OF CASINO, CONTRACTOR SHALL FIELD VERIFY ACTUAL FINISHED WALL DIMENSIONS.
- PROVIDE FINISHED SURFACES ON CABINETS & COUNTERTOPS WHERE EXPOSED TO VIEW.
- INSTALL 5/8" FIRE RATED MOISTURE/ MOLD RESISTANT GYP. BD. ON ALL WALLS & CEILINGS IN BATHS.
- INSTALL 5/8" FIRE RATED MOISTURE/ MOLD RESISTANT GYP. BD. ON CABINET WALLS A MIN. OF 12" BEYOND EXTENTS OF CABINETS IN KITCHENS.
- UTILIZE 2X WOOD BLOCKING AS REQUIRED FOR INSTALLATION OF CABINETS, ACCESSORIES, ETC.
- ARCHITECT TO SELECT ALL COLORS, FINISHES, ETC.
- CAULK ALL COUNTERTOP & BACKSPASH / G.B. WALL JOINTS. SET SINKS IN A BED OF CAULK. CAULK TO BE CLEAR.

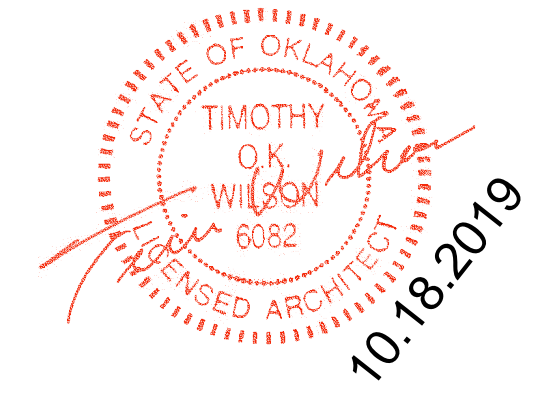


ARCHITECTURAL CORPORATION
 OKLAHOMA CERTIFICATE
 OF AUTHORITY NO. CA 02479

TIMBER RIDGE COTTAGES
 SECTION 8, TOWNSHIP 18, RANGE 15
 BROKEN ARROW, WAGONER COUNTY, OK

STARK WILSON DUNCAN ARCHITECTS INC.
 315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1998 F 816.531.1978

SEAL
 ARCHITECT - TIMOTHY O.K. WILSON
 LICENSE NO. 6082



INTERIOR
 ELEVATIONS

ISSUE DATE:
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TOILET ACCESSORIES

LEGEND

NOTE: CONTRACTOR SHALL INSTALL ALL REQUIRED 2X WOOD BLOCKING FOR A PROPER INSTALLATION OF TOILET ACCESSORIES. REFER TO 02/04/19 FOR MOUNTING HEIGHTS. REFER TO SPEC. SECTION 102800 FOR ADDITIONAL INFORMATION.

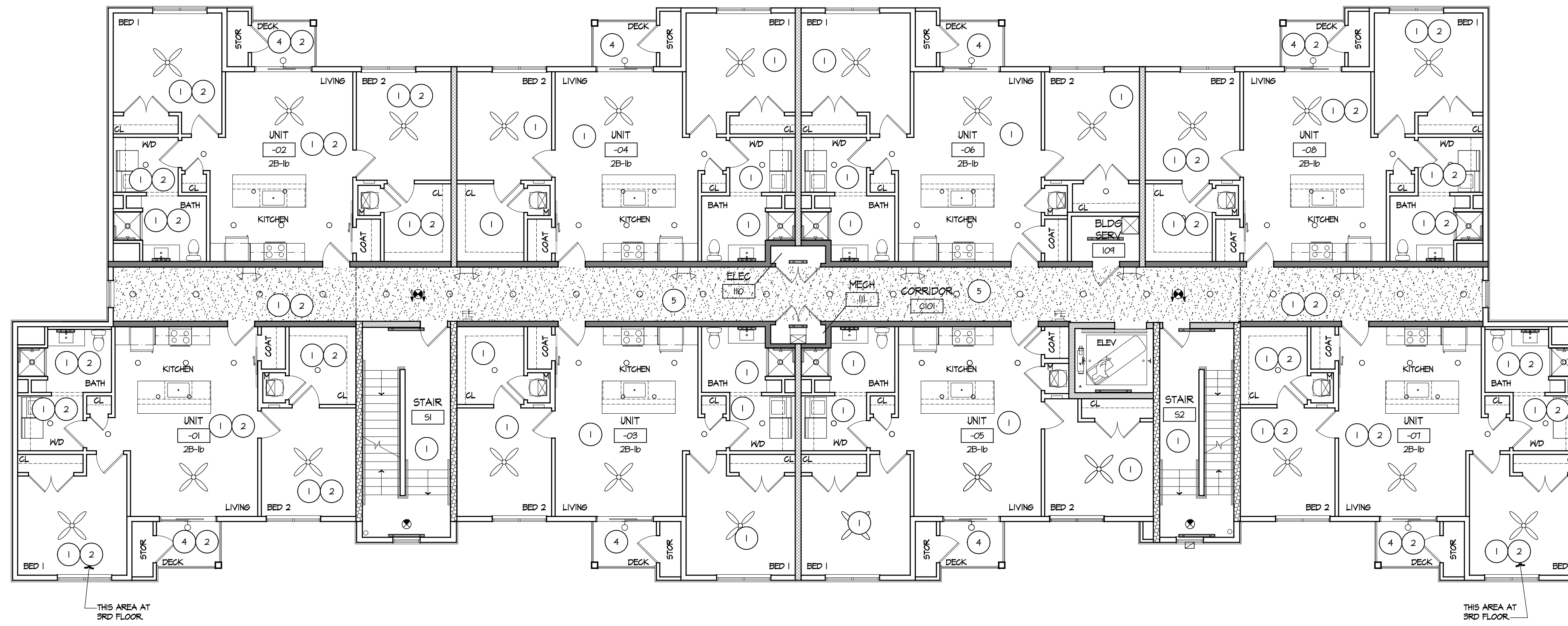
- TA-1 TOILET TISSUE DISPENSER
- TA-2 SHOWER CURTAIN ROD
- TA-3 24" TOWEL BAR
- TA-4 HAND TOWEL RING
- TA-5 ROBE HOOK
- TA-6 42" GRAB BAR
- TA-7 36" GRAB BAR

2X WOOD BLOCKING, REFER TO ELEVATIONS FOR LOCATIONS
 APARTMENT UNIT TOILET ACCESSORIES BY MOEN, VALVE STYLE, BRUSHED NICKEL FINISH.

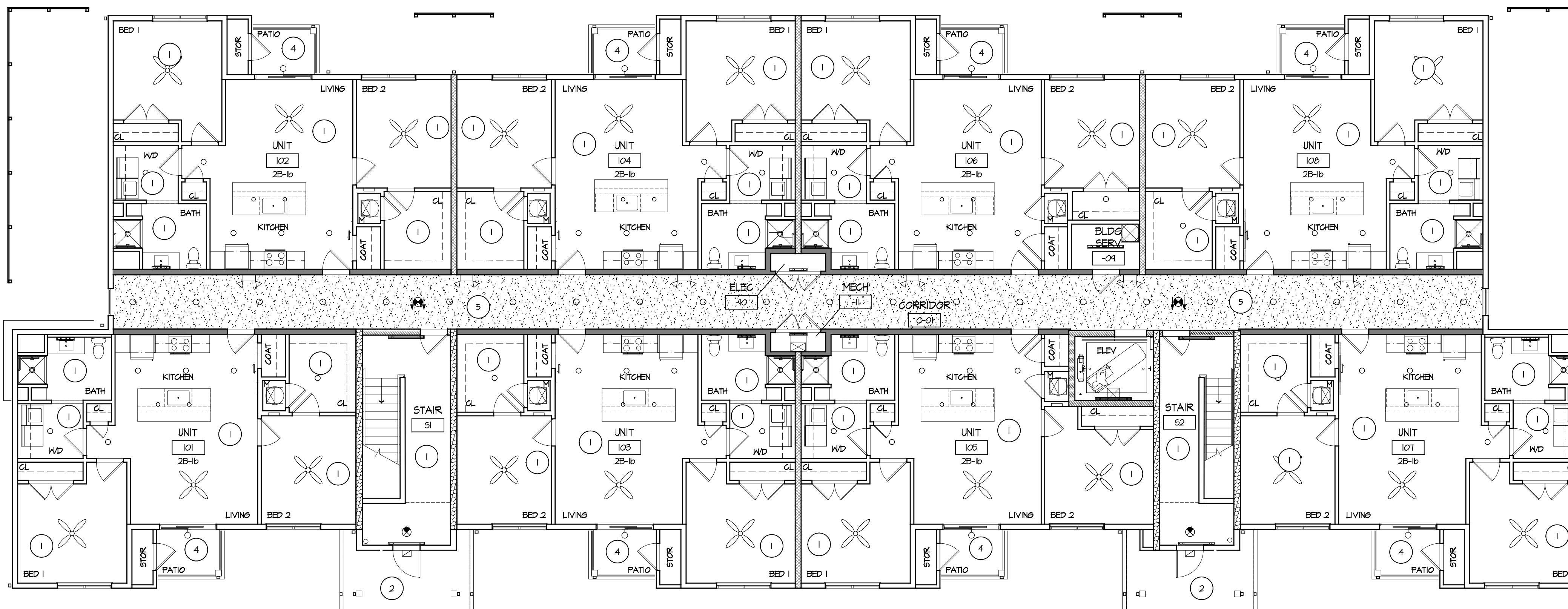
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G2 2ND & 3RD FLOOR REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



A2 1ST FLOOR REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

KEY NOTES

- 5/8" FIRE RATED GYPSUM BOARD ON HAT CHANNELS ON BOTTOM OF HOOD TRUSS FRAMING. 1 HOUR RATED FLOOR/CEILING ASSEMBLY. REFER TO FIRE RATED ASSEMBLY DETAILS. RE: D10/A02. PAINT. TYPICAL ENTIRE FLOOR.
- 5/8" FIRE RATED GYPSUM BOARD ON HAT CHANNELS ON BOTTOM OF HOOD TRUSS FRAMING. 1 HOUR RATED ROOF/CEILING ASSEMBLY. REFER TO FIRE RATED ASSEMBLY DETAILS. RE: A10/A02. PAINT. TYPICAL ENTIRE 4TH FLOOR AND PARTIAL 3RD FLOOR.
- ATTIC ACCESS: 22X30, INSULATED, 1 HOUR RATED. NYSTROM IN OR APPROVED EQUAL. PAINT ALL TO MATCH CEILING.
- OPEN DECK FRAMING. RE: STRUCTURAL.
- 5/8" GYP. BD. ATTACHED TO DRYWALL SUSPENSION SYSTEM BELOW 1 HOUR FLOOR / CEILING ASSEMBLY. CEILING HEIGHT @ 8'-10". REFER TO FIRE RATED ASSEMBLY DETAILS. RE: A4/A03.

CEILING PLAN GENERAL NOTES

- ALL WORK TO MEET ALL APPLICABLE BUILDING, PLUMBING, MECHANICAL, ELECTRICAL, ADA/HANDICAP ACCESSIBILITY AND LIFE SAFETY CODES AND REQUIREMENTS.
- DO NOT SCALE DRAWINGS. FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS PRIOR TO ORDERING, FABRICATION, ETC.
- REFERENCE ARCHITECTURAL, STRUCTURAL, PLUMBING, MECHANICAL AND ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- ALL FLOOR/CEILING, ROOF/CEILING AND WALL PENETRATIONS ARE TO BE PROPERLY FIRECALKED, FIRESTOPPED, SMOKE/FIRE DAMPERED, ETC. AS REQUIRED TO MAINTAIN THE FIRE RESISTIVE RATING OF THE RESPECTIVE ASSEMBLIES, AS REQUIRED BY THE APPLICABLE BUILDING CODE.
- CAULK ALL JOINTS BETWEEN DISSIMILAR MATERIALS FOR WEATHERTIGHT, WATERTIGHT, AIRTIGHT, ETC. PERFORMANCE.
- ALL PLUMBING PIPING AND ELECTRICAL CONDUIT IS TO BE CONCEALED WITHIN NEW CONSTRUCTION UNLESS NOTED OTHERWISE. IF PIPING OR DUCTWORK IS SHOWN TO BE EXPOSED REMOVE ALL LABELS AND MARKINGS. RE: MEP DRAWINGS.
- ALL AIR CONDITIONING REFRIGERANT LINES SHALL BE ROUTED AND CONCEALED IN WALLS AND CEILING. TYPICAL.
- REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE AND FIRE ALARM INFORMATION AND DEVICE LOCATIONS.



ARCHITECTURAL CORPORATION
OKLAHOMA CERTIFICATE
OF AUTHORITY NO. CA 02479

TIMBER RIDGE COTTAGES

SECTION 8, TOWNSHIP 18, RANGE 15
BROKEN ARROW, WAGONER COUNTY, OK

STARK WILSON DUNCAN ARCHITECTS INC.
315 NICHOLS RD. STE 228 - KANSAS CITY, MO 64112 - F 816.531.1978

SEAL
ARCHITECT - TIMOTHY O.K. WILSON
LICENSE NO. 6082



APARTMENT BUILDING
1ST & 2ND / 3RD
REFLECTED CEILING PLANS

ISSUE DATE:
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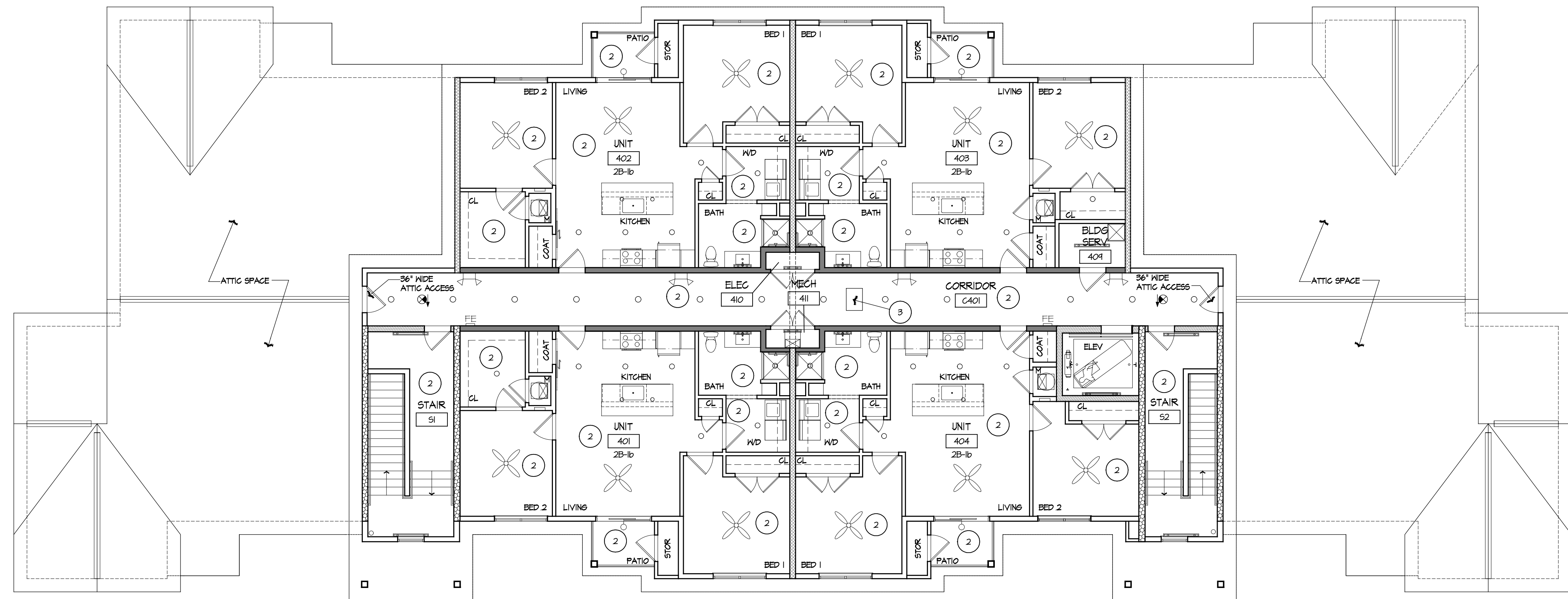
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KEY NOTES

1. 5/8" FIRE RATED GYPSUM BOARD ON HAT CHANNELS ON BOTTOM OF HOOD TRUSS FRAMING. 1 HOUR RATED FLOOR/CEILING ASSEMBLY. REFER TO FIRE RATED ASSEMBLY DETAILS. RE: D10/A02. PAINT. TYPICAL ENTIRE FLOOR.
2. 5/8" FIRE RATED GYPSUM BOARD ON HAT CHANNELS ON BOTTOM OF HOOD TRUSS FRAMING. 1 HOUR RATED ROOF/CEILING ASSEMBLY. REFER TO FIRE RATED ASSEMBLY DETAILS. RE: A10/A02. PAINT. TYPICAL ENTIRE 4TH FLOOR AND PARTIAL 3RD FLOOR.
3. ATTIC ACCESS: 22X30, INSULATED, 1 HOUR RATED. NYSTROM IN OR APPROVED EQUAL. PAINT ALL TO MATCH CEILING.
4. OPEN DECK FRAMING. RE: STRUCTURAL.
5. 5/8" GYP. BD. ATTACHED TO DRYWALL SUSPENSION SYSTEM BELOW 1 HOUR FLOOR / CEILING ASSEMBLY. CEILING HEIGHT @ 8'-10". REFER TO FIRE RATED ASSEMBLY DETAILS. RE: A4/A03.

**CEILING PLAN
 GENERAL NOTES**

- A. ALL WORK TO MEET ALL APPLICABLE BUILDING, PLUMBING, MECHANICAL, ELECTRICAL, ADA/HANDICAP ACCESSIBILITY AND LIFE SAFETY CODES AND REQUIREMENTS.
- B. DO NOT SCALE DRAWINGS. FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS PRIOR TO ORDERING, FABRICATION, ETC.
- C. REFERENCE ARCHITECTURAL, STRUCTURAL, PLUMBING, MECHANICAL AND ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- D. ALL FLOOR/CEILING, ROOF/CEILING AND WALL PENETRATIONS ARE TO BE PROPERLY FIRECALKED, FIRESTOPPED, SMOKE/FIRE DAMPERED, ETC. AS REQUIRED TO MAINTAIN THE FIRE RESISTIVE RATING OF THE RESPECTIVE ASSEMBLIES, AS REQUIRED BY THE APPLICABLE BUILDING CODE.
- E. CALK ALL JOINTS BETWEEN DISSIMILAR MATERIALS FOR WEATHERTIGHT, WATERTIGHT, AIRTIGHT, ETC. PERFORMANCE.
- F. ALL PLUMBING PIPING AND ELECTRICAL CONDUIT IS TO BE CONCEALED WITHIN NEW CONSTRUCTION UNLESS NOTED OTHERWISE. IF PIPING OR DUCTWORK IS SHOWN TO BE EXPOSED REMOVE ALL LABELS AND MARKINGS. RE: MEP DRAWINGS.
- G. ALL AIR CONDITIONING REFRIGERANT LINES SHALL BE ROUTED AND CONCEALED IN WALLS AND CEILING. TYPICAL.
- H. REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE AND FIRE ALARM INFORMATION AND DEVICE LOCATIONS.



BST 1935
 ARCHITECTURAL CORPORATION
 OKLAHOMA CERTIFICATE
 OF AUTHORITY NO. CA 02479

TIMBER RIDGE COTTAGES
 SECTION 8, TOWNSHIP 18, RANGE 15
 BROKEN ARROW, WAGONER COUNTY, OK

STARK WILSON DUNCAN ARCHITECTS INC.
 315 NICHOLS RD. STE 228 - KANSAS CITY, MO 64112 - T 816.531.1998 F 816.531.1978

SEAL
 ARCHITECT - TIMOTHY O.K. WILSON
 LICENSE NO. 6082



APARTMENT BUILDING
 4TH FLOOR
 REFLECTED CEILING PLAN

ISSUE DATE:
 OCTOBER 18, 2019
 REVISIONS:

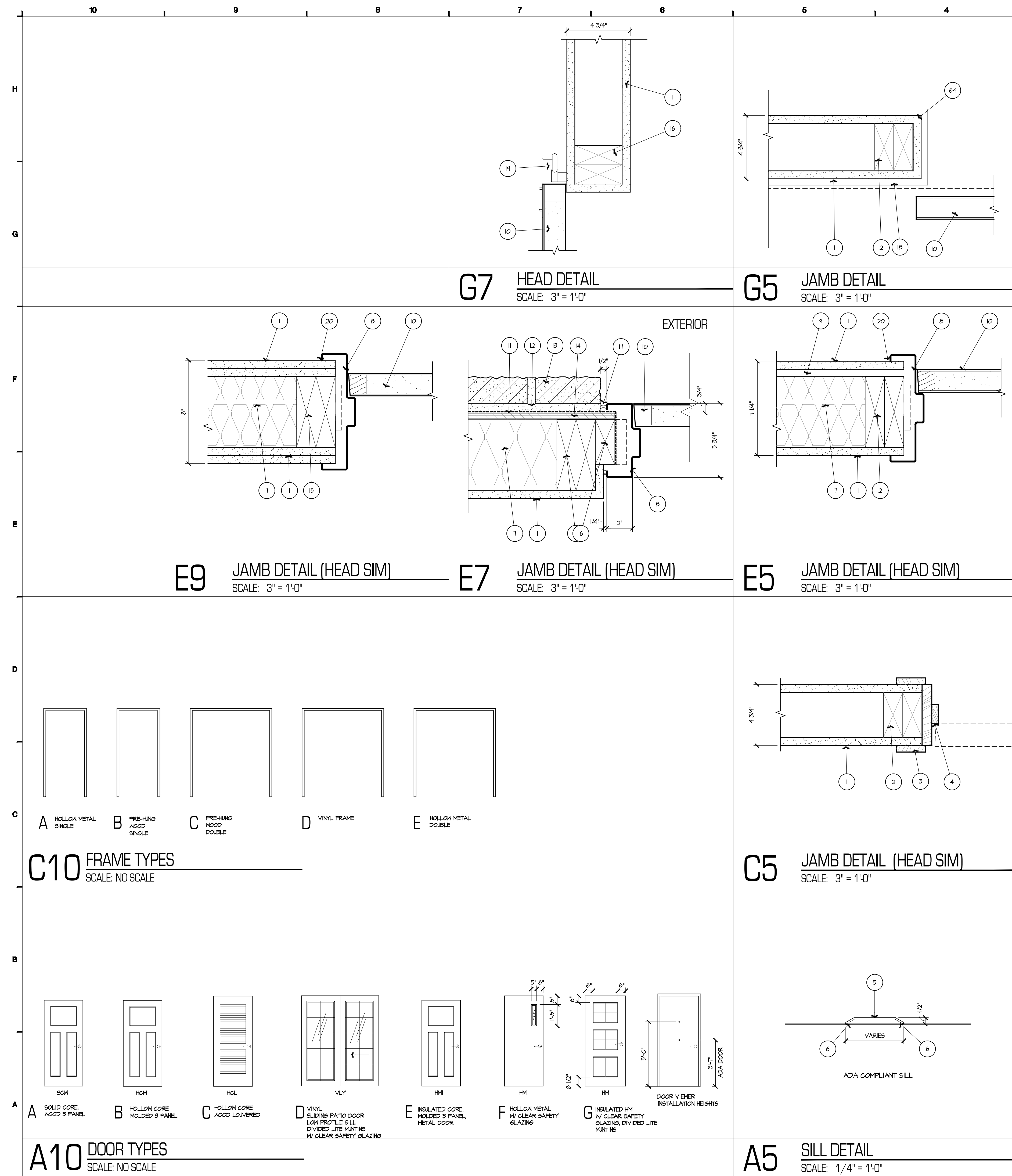
PROJECT NO.: 1902

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A2 FOURTH FLOOR REFLECTED CEILING PLAN
 SCALE: 1/8" = 1'-0"

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 Oct 18, 2019 3:36pm



DOOR SCHEDULE

NO.	DOOR INFORMATION				FRAME INFORMATION				REMARKS	
	SIZE F.V. = FIELD VERIFY EX. = EX. TO REMAIN	MAT. TYPE	DOOR TYPE	UL RATING	HWDR SET	MAT. TYPE	FRAME TYPE	HEAD		
307-1	3'-0" X 7'-0" X 1 3/4"	SGN	A	20 MIN.	A	HM	A	E5/A6.2	E5/A6.2	--
307-2	3'-0" X 6'-8" X 1 3/8"	HCM	B	--	K	VD	--	G1/A6.2	C5/A6.2	--
307-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	--	C	VD	B	C5/A6.2	C5/A6.2	--
307-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	--	B	VD	B	C5/A6.2	C5/A6.2	--
307-5	2'-8" X 6'-8" X 1 3/8"	HCM	B	--	B	VD	B	C5/A6.2	C5/A6.2	--
307-6	2'-0" X 6'-8" X 1 3/8"	HCM	B	--	B	VD	B	C5/A6.2	C5/A6.2	--
307-7	3'-0" X 6'-8" X 1 3/8"	HCM	B	--	C	VD	B	C5/A6.2	C5/A6.2	--
307-8	3'-0" X 6'-8" X 1 3/8"	HCM	B	--	C	VD	B	C5/A6.2	C5/A6.2	--
307-9	2'-6" X 6'-8" X 1 3/8" FR	HCM	B	--	D	VD	C	C5/A6.2	C5/A6.2	--
307-10	6'-0" X 6'-8" X 1 3/4" SLIDING	VYL	D	--	--	VYL	D	--	--	--
307-11	3'-0" X 6'-8" X 1 3/4"	HMI	E	--	E	VD	B	C5/A6.2	C5/A6.2	--
308-1	3'-0" X 7'-0" X 1 3/4"	SGN	A	20 MIN.	A	HM	A	E5/A6.2	E5/A6.2	--
308-2	3'-0" X 6'-8" X 1 3/8"	HCM	B	--	K	VD	--	G1/A6.2	C5/A6.2	--
308-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	--	C	VD	B	C5/A6.2	C5/A6.2	--
308-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	--	B	VD	B	C5/A6.2	C5/A6.2	--
308-5	2'-8" X 6'-8" X 1 3/8"	HCM	B	--	B	VD	B	C5/A6.2	C5/A6.2	--
308-6	2'-0" X 6'-8" X 1 3/8"	HCM	B	--	B	VD	B	C5/A6.2	C5/A6.2	--
308-7	3'-0" X 6'-8" X 1 3/8"	HCM	B	--	C	VD	B	C5/A6.2	C5/A6.2	--
308-8	3'-0" X 6'-8" X 1 3/8"	HCM	B	--	C	VD	B	C5/A6.2	C5/A6.2	--
308-9	2'-6" X 6'-8" X 1 3/8" FR	HCM	B	--	D	VD	C	C5/A6.2	C5/A6.2	--
308-10	6'-0" X 6'-8" X 1 3/4" SLIDING	VYL	D	--	--	VYL	D	--	--	--
308-11	3'-0" X 6'-8" X 1 3/4"	HMI	E	--	E	VD	B	C5/A6.2	C5/A6.2	--
309-1	3'-0" X 7'-0" X 1 3/4"	SGN	A	20 MIN.	F	HM	A	E5/A6.2	E5/A6.2	--
310-1	2'-6" X 7'-0" X 1 3/4" FR	SGN	A	20 MIN.	G	HM	E	E5/A6.2	E5/A6.2	--
311-1	2'-6" X 7'-0" X 1 3/4" FR	SGN	A	20 MIN.	G	HM	E	E5/A6.2	E5/A6.2	--
31-4	3'-0" X 7'-0" X 1 3/4"	HM	F	90 MIN.	H	HM	A	E4/A6.2	E4/A6.2	--
32-4	3'-0" X 7'-0" X 1 3/4"	HM	F	90 MIN.	H	HM	A	E4/A6.2	E4/A6.2	--
401-1	3'-0" X 7'-0" X 1 3/4"	SGN	A	20 MIN.	A	HM	A	E5/A6.2	E5/A6.2	--
401-2	3'-0" X 6'-8" X 1 3/8"	HCM	B	--	K	VD	--	G1/A6.2	C5/A6.2	--
401-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	--	C	VD	B	C5/A6.2	C5/A6.2	--
401-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	--	B	VD	B	C5/A6.2	C5/A6.2	--
401-5	2'-8" X 6'-8" X 1 3/8"	HCM	B	--	B	VD	B	C5/A6.2	C5/A6.2	--
401-6	2'-0" X 6'-8" X 1 3/8"	HCM	B	--	B	VD	B	C5/A6.2	C5/A6.2	--
401-7	3'-0" X 6'-8" X 1 3/8"	HCM	B	--	C	VD	B	C5/A6.2	C5/A6.2	--
401-8	3'-0" X 6'-8" X 1 3/8"	HCM	B	--	C	VD	B	C5/A6.2	C5/A6.2	--
401-9	2'-6" X 6'-8" X 1 3/8" FR	HCM	B	--	D	VD	C	C5/A6.2	C5/A6.2	--
401-10	6'-0" X 6'-8" X 1 3/4" SLIDING	VYL	D	--	--	VYL	D	--	--	--
401-11	3'-0" X 6'-8" X 1 3/4"	HMI	E	--	E	VD	B	C5/A6.2	C5/A6.2	--
402-1	3'-0" X 7'-0" X 1 3/4"	SGN	A	20 MIN.	A	HM	A	E5/A6.2	E5/A6.2	--
402-2	3'-0" X 6'-8" X 1 3/8"	HCM	B	--	K	VD	--	G1/A6.2	C5/A6.2	--
402-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	--	C	VD	B	C5/A6.2	C5/A6.2	--
402-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	--	B	VD	B	C5/A6.2	C5/A6.2	--
402-5	2'-8" X 6'-8" X 1 3/8"	HCM	B	--	B	VD	B	C5/A6.2	C5/A6.2	--
402-6	2'-0" X 6'-8" X 1 3/8"	HCM	B	--	B	VD	B	C5/A6.2	C5/A6.2	--
402-7	3'-0" X 6'-8" X 1 3/8"	HCM	B	--	C	VD	B	C5/A6.2	C5/A6.2	--
402-8	3'-0" X 6'-8" X 1 3/8"	HCM	B	--	C	VD	B	C5/A6.2	C5/A6.2	--
402-9	2'-6" X 6'-8" X 1 3/8" FR	HCM	B	--	D	VD	C	C5/A6.2	C5/A6.2	--
402-10	6'-0" X 6'-8" X 1 3/4" SLIDING	VYL	D	--	--	VYL	D	--	--	--
402-11	3'-0" X 6'-8" X 1 3/4"	HMI	E	--	E	VD	B	C5/A6.2	C5/A6.2	--
403-1	3'-0" X 7'-0" X 1 3/4"	SGN	A	20 MIN.	A	HM	A	E5/A6.2	E5/A6.2	--
403-2	2'-8" X 6'-8" X 1 3/8"	HCM	B	--	B	VD	B	C5/A6.2	C5/A6.2	--
403-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	--	C	VD	B	C5/A6.2	C5/A6.2	--
403-4	2'-6" X 6'-8" X 1 3/8" FR	HCM	B	--	D	VD	C	C5/A6.2	C5/A6.2	--
403-5	2'-8" X 6'-8" X 1 3/8"	HCM	C	--	B	VD	B	C5/A6.2	C5/A6.2	--
403-6	2'-0" X 6'-8" X 1 3/8"	HCM	B	--	B	VD	B	C5/A6.2	C5/A6.2	--
403-7	3'-0" X 6'-8" X 1 3/8"	HCM	B	--	C	VD	B	C5/A6.2	C5/A6.2	--
403-8	3'-0" X 6'-8" X 1 3/8"	HCM	B	--	C	VD	B	C5/A6.2	C5/A6.2	--
403-9	2'-6" X 6'-8" X 1 3/8" FR	HCM	B	--	D	VD	C	C5/A6.2	C5/A6.2	--
403-10	6'-0" X 6'-8" X 1 3/4" SLIDING	VYL	D	--	--	VYL	D	--	--	--
403-11	3'-0" X 6'-8" X 1 3/4"	HMI	E	--	E	VD	B	C5/A6.2	C5/A6.2	--
404-1	3'-0" X 7'-0" X 1 3/4"	SGN	A	20 MIN.	A	HM	A	E5/A6.2	E5/A6.2	--
404-2	2'-8" X 6'-8" X 1 3/8"	HCM	B	--	B	VD	B	C5/A6.2	C5/A6.2	--
404-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	--	C	VD	B	C5/A6.2	C5/A6.2	--
404-4	2'-6" X 6'-8" X 1 3/8" FR	HCM	B	--	D	VD	C	C5/A6.2	C5/A6.2	--
404-5	2'-8" X 6'-8" X 1 3/8"	HCM	C	--	B	VD	B	C5/A6.2	C5/A6.2	--
404-6	2'-0" X 6'-8" X 1 3/8"	HCM	B	--	B	VD	B	C5/A6.2	C5/A6.2	--
404-7	3'-0" X 6'-8" X 1 3/8"	HCM	B	--	C	VD	B	C5/A6.2	C5/A6.2	--
404-8	3'-0" X 6'-8" X 1 3/8"	HCM	B	--	C	VD	B	C5/A6.2	C5/A6.2	--
404-9	2'-6" X 6'-8" X 1 3/8" FR	HCM	B	--	D	VD	C	C5/A6.2	C5/A6.2	--
404-10	6'-0" X 6'-8" X 1 3/4" SLIDING	VYL	D	--	--	VYL	D	--	--	--
404-11	3'-0" X 6'-8" X 1 3/4"	HMI	E	--	E	VD	B	C5/A6.2	C5/A6.2	--
409-1	3'-0" X 7'-0" X 1 3/4"	SGN	A	20 MIN.	F	HM	A	E5/A6.2	E5/A6.2	--
410-1	2'-6" X 7'-0" X 1 3/4" FR	SGN	A	20 MIN.	G	HM	E	E5/A6.2	E5/A6.2	--
411-1	2'-6" X 7'-0" X 1 3/4" FR	SGN	A	20 MIN.	G	HM	E	E5/A6.2	E5/A6.2	--
31-5	3'-0" X 7'-0" X 1 3/4"	HM	F	90 MIN.	H	HM	A	E4/A6.2	E4/A6.2	--
32-5	3'-0" X 7'-0" X 1 3/4"	HM	F	90 MIN.	H	HM	A	E4/A6.2	E4/A6.2	--

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EST 1935

ARCHITECTURAL CORPORATION
 OKLAHOMA CERTIFICATE
 OF AUTHORITY NO. CA 02479

TIMBER RIDGE COTTAGES

SECTION 8, TOWNSHIP 18, RANGE 15
 BROKEN ARROW, WAGONER COUNTY, OK

STARK WILSON DUNCAN ARCHITECTS INC.
 315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T: 816.531.1998 F: 816.531.1978

HARDWARE SETS

REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

- A. 3 SPRING HINGES
1 LATCHSET AND DEADBOLT
1 SMOKE GASKET
1 STOP
1 VIEWER - 60" AFF (NO VIEWER ON DOOR D)
ADD 2ND DOOR VIEWER IN ACCESSIBLE UNITS @ 48" AFF
- B. 3 HINGES
1 LATCHSET
1 STOP
- C. 3 HINGES
1 PRIVACY SET
1 STOP
- D. 3 HINGES EACH DOOR
2 DUMMY SET
2 BALLCATCH @ HEAD OF DOORS
2 STOP
- E. 3 HINGES
1 STOREROOM LOCKSET
1 SET HEATHERSTRIPPING
1 THRESHOLD
- F. 3 HINGES
1 STOREROOM LOCKSET
1 CLOSER
1 SMOKE SEAL
- G. 3 HINGES EACH DOOR
1 STOREROOM LOCKSET
1 SET FLUSH BOLTS ON INACTIVE LEAF
- H. 3 HINGES
1 LATCHSET
1 CLOSER
1 SMOKE SEAL
1 STOP
- J. 4 HINGES (NRP)
1 LATCHSET
1 ELECTRIC STRIKE TIED TO ENTRY SYSTEM
1 ELECTRIC KEY SWITCH
1 LATCH GUARD
1 CLOSER W/ ADJUSTABLE ARM
1 HEATHERSTRIPPING
1 ADA THRESHOLD
- K. SMARTSTAND 6.6 FT. HEAVY DUTY SLIDING BARN DOOR KIT, COLOR BLACK
1 DUMMY SET

GENERAL DOOR HARDWARE NOTES

1. ALL LOCKSETS TO BE HANDICAP ACCESSIBLE LEVER TYPE, SCHLAGE JUPITER STYLE OR APPROVED EQUAL, UNO.
2. ALL HARDWARE FINISHES TO BE USED.
3. ALL APARTMENT ENTRANCE DOOR HARDWARE TO BE LIGHT COMMERCIAL GRADE, RESIDENTIAL GRADE AT ALL OTHER LOCATIONS.
4. UTILIZE BASE STOPS TO FULLEST EXTENT PRACTICAL, USING HINGE STOPS @ HIGH & 1' LOW ONLY WHERE BASE STOPS ARE NOT APPLICABLE.
5. ENTRY SYSTEM AT DOORS 31-2 & 32-2 TO BE EXTERIOR POLE MOUNTED TYPE, HANDS FREE OPERATION & DIGITAL DISPLAY (MIN. OF 300 DIRECTORY LISTINGS). INSTALL WITH TOP OPERABLE CONTROL, AT 41" AFF. ELECTRONIC LOCKING SYSTEM, W/ BATTERY BACK-UP. AT DOORS SHALL BE ELECTRIC STRIKE TYPE & 4" SHALL BE INSTALLED TO OPERATE WITH THE ADJACENT TELEPHONE ENTRY / SECURITY DEVICE SYSTEM AS FOLLOWS:
 1. TURNING KEY SWITCH IN ENTRY SYSTEM RELEASES DOORS.
 2. PUSHING ON EXIT DEVICE RELEASES DOOR.
 3. ENTRY SYSTEM RELEASES DOOR UPON TENANT'S TELEPHONE PUSH/PROMPT.

KEY NOTES

1. 5/8" ØYP. BD. RE: FLOOR PLANS FOR FIRE RATINGS, PAINT.
2. DOUBLE STUD @ JAMB CONDITION, TYP.
3. WOOD TRIM, PAINT, 062025.
4. WOOD FRAME, RE: DOOR SCHEDULE.
5. ALUMINUM THRESHOLD.
6. SET IN A BED OF SEALANT.
7. FULL DEPTH INSULATION IN FIRE RATED WALL, RE: A03 FOR TYPE.
8. HOLLOW METAL DOOR FRAME, 0813.
9. 1/2" RESILIENT CHANNEL.
10. SCHEDULED DOOR, RE: DOOR SCHEDULE.
11. 2 LAYERS OF AIR WEATHER BARRIER, 072500.
12. MORTAR SETTING BED OVER METAL LATH & SCRATCH COAT, 044313.16.
13. STONE VENEER, RE: ELEVATIONS, 044313.16.
14. 7/8" OSB, EXTERIOR WALL SHEATHING, RE: STRUCTURAL.
15. 2" X 6" WOOD STUDS @ 16" O.C., RE: STRUCTURAL.
16. 2" X 4" WOOD STUDS @ 16" O.C., RE: STRUCTURAL.
17. SEALANT W/ BACKER ROD, CONT.
18. WOOD BASE, RE: FINISH SCHEDULE.
19. SLIDING BARN DOOR HARDWARE, RE: HARDWARE SCHEDULE.
20. CALK BOTH SIDE OF HOLLOW METAL DOOR FRAMES, TYP.

DOOR SCHEDULE

ISSUE DATE:
OCTOBER 18, 2019

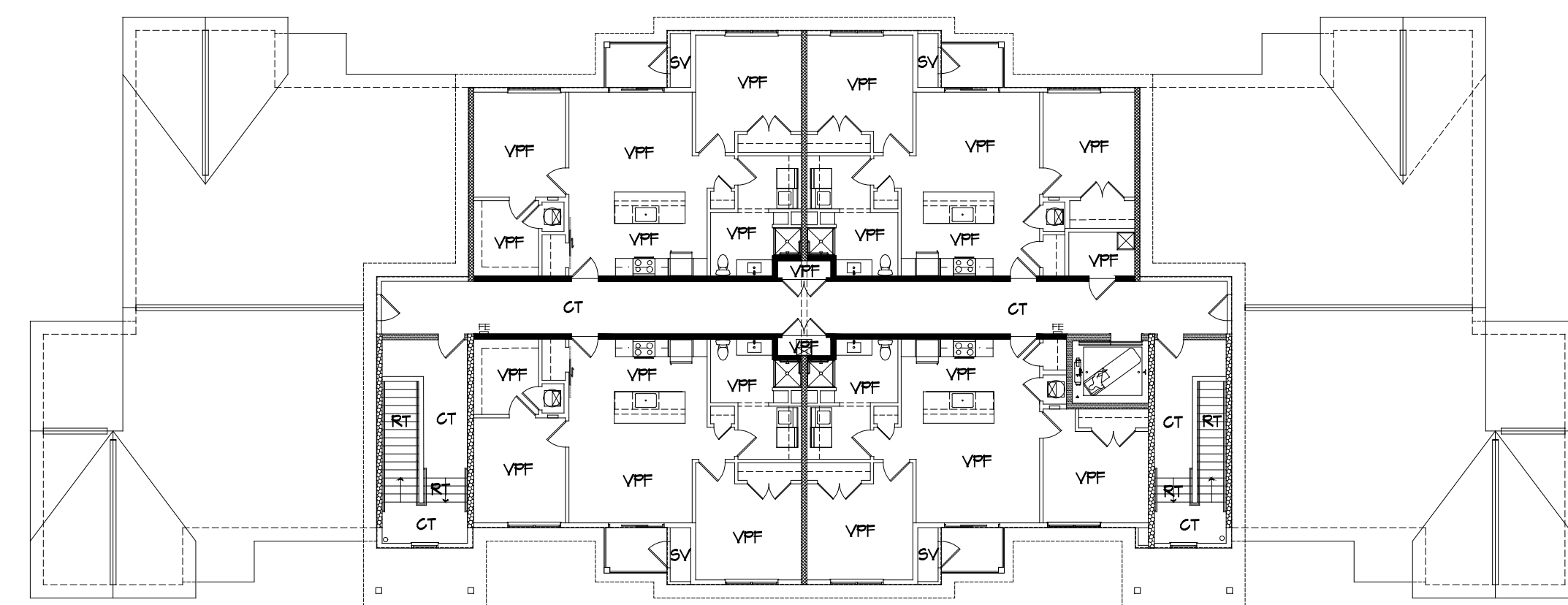
REVISIONS:

PROJECT NO.: 1902

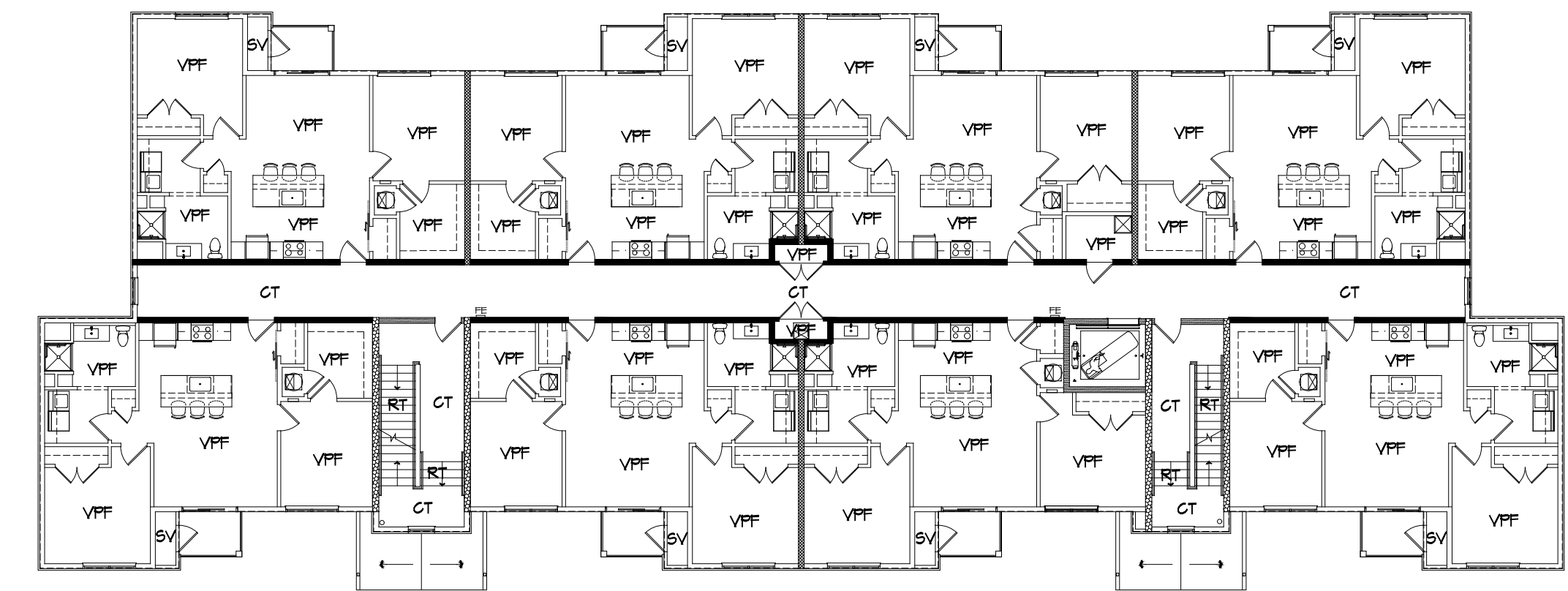
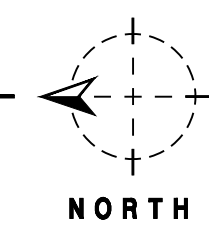
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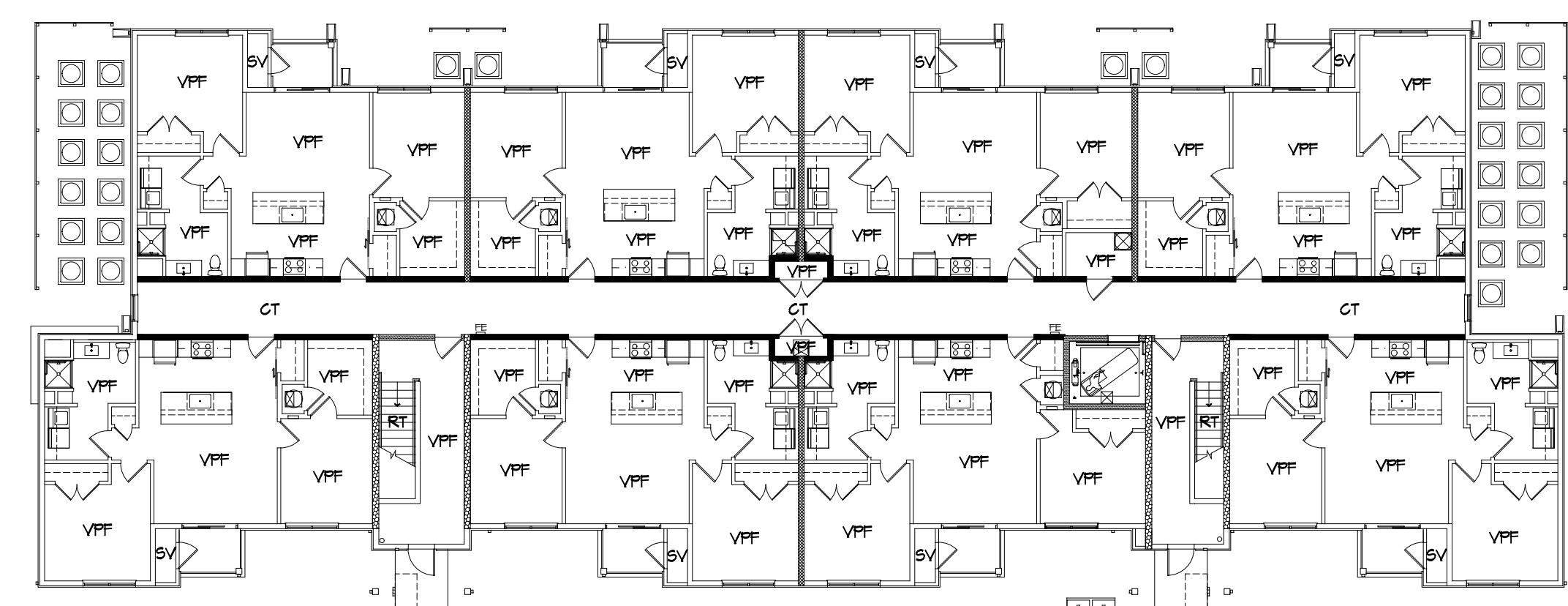
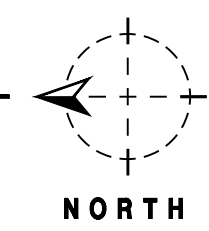
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Oct 18, 2019 3:38pm



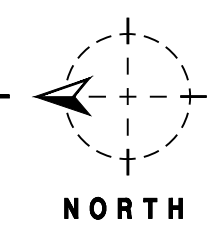
A9 4TH FLOOR PLAN
SCALE: 1/16" = 1'-0"



C2 2ND & 3RD FLOOR PLAN (TYP.)
SCALE: 1/16" = 1'-0"



A2 1ST FLOOR PLAN
SCALE: 1/16" = 1'-0"



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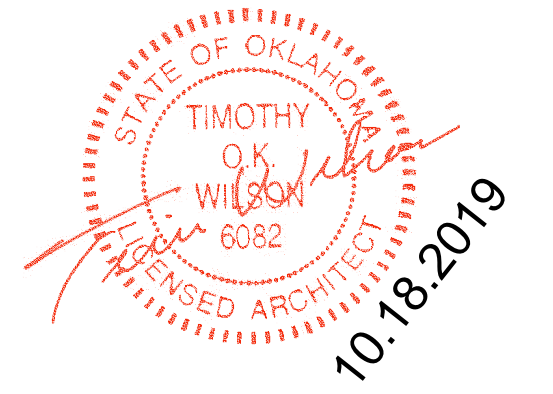
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OF AUTHORITY NO. CA 02479

TIMBER RIDGE COTTAGES

SECTION 8, TOWNSHIP 18, RANGE 15
BROKEN ARROW, WAGONER COUNTY, OK

STARK WILSON DUNCAN ARCHITECTS INC.
315 NICHOLS RD. STE 228 - KANSAS CITY, MO 64112 - T 816.531.1996 F 816.531.1978

SEAL
ARCHITECT - TIMOTHY O.K. WILSON
LICENSE NO. 6082



ROOM FINISH PLAN

ISSUE DATE:
OCTOBER 18, 2019
REVISIONS:

PROJECT NO.: 1902

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GENERAL NOTES - STRUCTURAL

- 1. The contractor shall verify dimensions and conditions before construction and notify the engineer of any discrepancies, inconsistencies, or difficulties affecting the work before proceeding.
2. The contractor shall coordinate all disciplines, verifying size and location of all openings, whether shown on structural drawings or not, as called for on architectural, mechanical, or electrical drawings.
3. All design and construction work for this project shall conform to the requirements of the 2015 International Building Code, as amended by the City of Broken Arrow, OK.
4. These drawings are for this specific project and no other use is authorized.
5. Concrete:
A. All concrete for foundations (walls, grade beams, footings) shall develop minimum ultimate compressive design strength of 3500 psi in 28 days, but not less than 500 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 6 gallons of water per 100 pounds of cement and not over 4 inches of slump.
B. All concrete for interior flat work shall develop minimum ultimate compressive design strength of 4000 psi in 28 days, but not less than 525 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 5.75 gallons of water per 100 pounds of cement and not over 4 inches of slump.
C. All concrete for exterior flatwork shall have a minimum design compressive strength of 4500 psi in 28 days, with not less than 560 pounds of cement per cubic yard of concrete, not over 6 gallons of water per 100 pounds of cement, with 6% +/- 1% air entrainment, and a maximum of 4 inches of slump.
D. The preceding minimum mix requirements may have water-reducing admixtures conforming to ASTM C494 added to the mix at manufacturer's dosage rates for improved workability.
E. The preceding minimum mix requirements may have up to 15% maximum of the cement content replaced with an approved ASTM C618 Class C, fly ash, provided the total minimum cementitious content is not reduced.
F. Combined aggregate (coarse plus fine) for all concrete shall be well graded from coarsest to finest with no more than 10 percent and not less than 6 percent retained on an individual sieve, except that less than 8 percent may be retained on coarsest sieve and on No. 50 and finer sieves. Submit this gradation report with the concrete mix design shop drawings.
G. All interior concrete slabs on grade shall be placed over 1/2" minimum, Class A Vapor Barrier per ASTM E1745 with less than 0.01 perms, tested after mandatory conditioning. All joints shall be lapped and sealed per manufacturer's recommendations. All penetrations, as well as damaged vapor barrier material shall also be sealed per manufacturer's recommendation prior to concrete placement. Install barrier per manufacturer recommended details at all discontinuities edges (at interior columns, exterior edge of slab, etc.) to ensure terms of warranty are followed. The vapor barrier shall be placed over free-draining granular material as prescribed by the project soils report.
H. All concrete is reinforced concrete unless specifically called out as unreinforced. Reinforce all concrete not otherwise shown with same steel as in similar sections or areas. Any details not shown shall be detailed per ACI 318 and meet requirements of ACI 318, current editions.
I. Control joints in dirt formed slab to be as shown on plans. Where not shown, limit controlled areas to not more than 144 square feet or 12 feet on any side. Slab panel side ratio shall not exceed 1/2 to 1.
J. Contractor shall verify that all concrete inserts, reinforcing and embedded items are correctly located and rigidly secured prior to concrete placement.
K. Construction joints in beams, slabs, and grade beams shall occur at midspan (middle third) unless noted otherwise. Provide 2 x 4 horizontal keys at construction joints for shear transfer.
L. No aluminum items shall be embedded in any concrete.
6. Reinforcing Steel:
A. All reinforcing steel shall conform to the requirements of ASTM A615 or A706 grade 60 steel. Welded plain wire fabric shall be supplied in sheets and conform to the requirements of ASTM A185.
B. Clear minimum coverage of concrete over reinforcing steel shall be as follows:
Concrete placed against earth 3"
Formed concrete against earth 1"
Slabs 1-1/2"
Beams or Columns 2"
Other 2"
All coverage shall be nominal bar diameter minimum.
C. All dowels shall be the same size and spacing as adjoining main bars (splice top 48 bar diameters or 24" minimum unless noted otherwise).
D. At corners of all walls, beams, and grade beams supply corner bars (minimum 2'-0" in each direction or 48 bar diameters) in outside face of wall, matching size and spacing of horizontal bars. Where there are no vertical bars in outside face of wall, supply 3 - #4 vertical support bars for corner bars.
E. Bars marked continuous and all vertical steel shall be lapped 48 bar diameters (2'-0" minimum) at splices and embedments, unless shown otherwise. Splice top bars near midspan and splice bottom bars over supports, unless noted otherwise.
F. At all holes in concrete walls and slabs, add 2 - #5 bars (opening dimension plus 46 diameters long) at each of four sides and add 2 - #5 x 5'-0" diagonally at each of four corners of hole. Openings in 8" thick walls are reinforced similar, but with 1 - #5 instead of 2 - #5, respectively.
G. Unless otherwise covered on architectural plans or specifications, vertical control joints in concrete wall shall be spaced at a maximum of 32'-0" on center and coordinated with the architect. Every other horizontal wall reinforcing bar shall be discontinuous at control joints except heavy top and bottom bars unless noted otherwise. Provide base seal waterproof style number T12 (by Greenstreak Inc. or approved equal) on dirt face side of wall at all walls below grade.
H. Accessories shall be as specified in latest edition of the ACI Detailing Handbook and the concrete Reinforcing Steel Institute Design Handbook. Maximum accessory spacing shall be 4'-0" on center and all accessories on exposed surfaces are to have plastic coated feet.
I. All slabs and stairs not shown otherwise shall be 6" thick with #4 bars at 12" on center each way. All exterior porches and stoops not otherwise detailed may be constructed in any standard manner, solid or hollow, but must be reinforced with #4 bars at 12" on center each way minimum. Fasteners shall be dowelled to adjacent walls or grade beams with #4 bars at 12" on center, hooked or embedded 48 diameters into both members. Slope porches 1/8" per foot for drainage unless noted otherwise.
J. Allow 1/2 ton of reinforcing bars #4 or larger to be used as directed in the field for special conditions by the engineer of record (refer for pricing same to be included).
7. Structural Steel:
A. All structural steel beams and columns shall be ASTM A992, grade 50 steel and all miscellaneous steel shall be ASTM A36 grade steel (except at moment connections where plates shall be ASTM A992, grade 50). Hollow Structural Sections (HSS) shall be ASTM A500, grade B. Fabrication and erection shall be in accordance with AISC 308-05 Code of Standard Practice for Steel Buildings and Bridges in the 13th Edition of the AISC Steel Construction Manual.
B. All welding shall conform to the recommendations of the AWS.
C. All exterior steel and connections, and brick relief angles shall be hot-dip galvanized.
D. All bolts not otherwise specified shall be 3/4" diameter high strength (ASTM A325-N). All bolts shall be fully pretensioned. All beam connections shall be designed per the AISC Manual of Steel Construction "Framed Beam Connections" for the indicated reactions or at least 0.4 x beam total shear capacity, Vn/Omega, shown in the Beam Properties of the maximum total uniform load tables, whichever

- is greater; and shall account for eccentricity when the bolt line is more than 2" from the center of the support. All connections must be two bolt minimum. Connection design and shop drawing preparation shall be completed under the direct supervision of a professional engineer licensed in the state the project is located and shop drawings and connection calculations shall bear his seal. All anchor bolts shall be 3/4" diameter, ASTM F1554, Grade 36 unless noted otherwise.
F. Allow 1 and 1/2 tons of miscellaneous structural steel to be used as directed in the field for special conditions by the structural engineer of record. Cost for shop drawings, fabrication, delivery, detailing, and erection to be included.
8. Post-Installed Anchors:
A. Post-installed anchors shall be used only where specified on the drawings unless approved in writing by the engineer of record. See drawings for anchor diameter, spacing and embedment. Performance values of the anchors shall be obtained for specified products using appropriate design procedures and/or standards as required by the governing building code. Anchors installed in concrete shall have an ICC-ES Evaluation Service Report. Special inspection is required for all post-installed anchors. The contractor shall coordinate an on-site meeting with the post-installed anchor manufacturer field representative to educate the construction team on the anchor installation guidelines and requirements.
B. Mechanical anchors used in cracked and uncracked concrete shall have been tested and qualified for use in accordance with ACI 308.3 and ICC-ES ECR-103. All anchors shall be installed per the anchor manufacturer's written instructions.
C. Adhesive anchors used in cracked and uncracked concrete shall have been tested and qualified for use in accordance with ICC-ES ECR-103. All anchors shall be installed per the anchor manufacturer's written instructions.
D. Mechanical anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES AC01. All anchors shall be installed per the anchor manufacturer's written instructions.
E. Adhesive anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES AC08. All anchors shall be installed per the anchor manufacturer's written instructions.
F. Anchors used in hollow concrete masonry shall have been tested and qualified in accordance with ICC-ES AC106 or ICC-ES AC58 as appropriate. All anchors shall be installed per the anchor manufacturer's written instructions with appropriate screen tubes used for adhesives.
9. Foundations:
A. The soil investigation was prepared by GFAC Engineering. The report number is 62014055 and the telephone number is (918) 683-8667.
B. Spread footings and grade beams are designed to bear on native soil or engineered fill placed in accordance with the recommendations of the geotechnical report) capable of safely sustaining 2,000 psf.
C. Contractor shall provide for dewatering at excavations from either surface water or seepage.
D. All foundation excavations shall be inspected by a qualified soil engineer, approved by the architect and/or structural engineer, prior to placement of steel or concrete. This inspection shall be at the owner's expense.
E. All concrete in the structural portion retaining the backfill shall have attained its design strength prior to being backfilled.
F. Moisture content in soils beneath building locations should not be allowed to change after footing excavations and after grading for slabs on grade are completed. If subgrade materials become desiccated or softened by water or other conditions, recompact materials to the density and water content specified for engineered fill. Do not place concrete on frozen ground.
10. Concrete Block Masonry:
A. Concrete block used in exterior walls or load bearing walls shall meet the requirements of ASTM C40 and have a minimum net compressive strength of 1900 psi and laid up using type N mortar such that it is equal to 1500 psi. Mortar shall be volume proportion based cement lime mortar. Proportioning shall be completed by box measure. Any block in contact with earth shall be normal weight units, laid using type "N" mortar and grouted solid.
B. The contractor shall provide adequate temporary bracing for all masonry walls during construction.
C. All concrete block shall have a gage (or larger) horizontal joint reinforcing (ladder or truss) per architectural drawings and specifications (6" maximum vertical spacing).
D. Gravity wall construction shall be reinforced as designed for specific concrete block used. The horizontal joint reinforcing shall be of the ladder or truss style per specification and continuous between brick and block, as prescribed by architectural drawings.
E. Concrete block shall be reinforced as follows in 8" walls:
1) Vertical reinforcing (unless noted otherwise per schedule or details on the drawings) shall be a minimum of 1 - #5 bar in 8" walls at 32" on center, at each corner, at each door and window joint, each side of control joints and in the end and void of each length of wall. Lap splices for masonry vertical reinforcing shall be 48 bar diameters or 24" minimum.
2) Horizontal reinforcing:
A) Horizontal joint reinforcing as noted above.
B) Continuous horizontal bars shall be included per section or detail in bond beam or optional running bond beam where noted. Where bond beams are continuous at corners of walls, supply corner bars matching size of horizontal bars to minimum 2'-0" or 40 bar diameters in each direction.
F. Grout, where noted above, shall have a minimum design ultimate compressive strength of 2500 psi at 28 day test and 3/8" maximum aggregate size.
G. Non-load bearing concrete block walls shall be isolated from adjacent structural elements with vertical 3/8" control joints and at the top of the wall with 1" air space or compressible material and support per architectural detail.
H. Unless otherwise covered on architectural plans or specifications, vertical control joints in masonry construction shall be 3/8" wide, full height of wall. Joints shall be spaced at a maximum of 24'-0" on center and coordinated with the architect. All horizontal joint reinforcing shall be discontinuous at control joints in masonry. All bond beam horizontal reinforcing shall be continuous through control joints.
I. Lintels over all openings in walls not otherwise covered shall be one 6" x 3-1/2" x 5/16" angle for each 4" of masonry. All exterior lintels to be galvanized.
J. Walls shall be anchored top and bottom by dowels matching wall vertical reinforcing (unless noted otherwise) from floor slab bottom and bracing angles at the top, per details on the drawings.
12. Timber and Wood Framing:
A. Quality and construction of wood framing members and their fasteners for load supporting purposes shall not otherwise indicated on the drawings shall be in accordance with the 2015 International Building Code.
B. All studs and top and bottom plates shall be Douglas Fir No. 2 grade visually graded lumber, with an allowable fiber stress in tension of 900 psi minimum and an elastic modulus of 1800,000 psi unless noted otherwise. All joist, truss members and headers to be No. 2 grade (min.) (unless noted otherwise).
C. All exterior lumber to receive a stained finish shall be Kiln-dried after treated (KDAT) material. Refer to architectural drawings for locations.
D. Bridging of stud bearing walls and shear walls shall be solid, matching sheathing joints shall be solid wood or cross bridging of either wood or metal strapping. Spacing, in any case, shall not exceed 8'-0".
E. Wood members and sheathing shall be fastened with number and size of fasteners not less than that set forth in Table 2304.4.1 of the 2015 International Building Code. Floor sheathing shall be APA rated tongue and groove 5/8"-Floor, exposure 1, glued and nailed with 10d nails or 1 1/2 screws at 6" on center to supports at edges and 12" on center field. Sheathing of shear walls or roof diaphragms shall be edge nailed with 8d common nails at 6" on center and nailed to intermediate framing and/or blocking members with 8d common nails at 12" on center unless otherwise noted on the drawings.
F. Sill plates shall be bolted to concrete slabs with 1/2" diameter bolts at 32" on center (NOC, Re: shearwall sched). Provide plate

- washers at sill plate anchors for shearwalls per shearwall sched. Plates in direct contact with concrete or masonry shall be treated lumber.
H. All hangers, ties and connections shown are based on Simpson Strong Tie as the basis of design. Provide Simpson Strong Tie or approved equal. Joist hangers shall be equal to "L16" for wood application and "LB" for steel nail-on application. Roof truss ties shall be equal to "H25A" and tie the roof truss to the top plate (provide 2") and "H2" diagonally across from each other when split load shown in truss shop drawings exceeds 6000lb. Roof girdler ties shall be equal to a "L6T2", "L6T3" or "L6T4" tie (dependent on number of piles) and tie the truss girder to the top plate. Provide "H4" at the top of each stud to top track when the top track has no truss attached.
I. Service condition - dry with moisture content at or below 18% in service.
J. Laminated strand lumber (LSL) shall have an allowable flexural stress (Fb) of 1700 psi (reduced by size factor) and an elastic modulus (E) of 1,900,000 psi.
K. Laminated veneer lumber (LVL) shall have an allowable flexural stress (Fb) of 2600 psi (reduced by size factor) and an elastic modulus (E) of 1,900,000 psi.
L. Parallel Strand Lumber (PSL) shall have an allowable flexural stress (Fb) of 2400 psi (reduced by size factor) and an elastic modulus (E) of 2,000,000 psi. (E) + 2,200,000 psi for members > 18").
M. Pre-engineered wood trusses shall be designed in accordance with the Truss Plate Institute's national design standard for metal-plate connected wood truss construction (ANSI/TR-1 latest edition). Trusses shall be designed and manufactured by an authorized member of the Wood Truss Council of America (MTC/A). Truss design shall conform to specified codes, allowable stress increases, deflection limitations and other applicable criteria of the governing code.
N. Shop drawings showing complete erection and fabrication details and calculations (including connections) shall be submitted to the project architect/engineer for review prior to fabrication and/or erection. Calculations shall bear the seal of a professional engineer, registered in the state of the project location. Shop drawings shall also be submitted to the local government controlling agency when requested by that agency.
O. All trusses shall be securely braced both during erection and permanently, as indicated on the structural drawings.
P. The truss manufacturer shall supply all hardware and fasteners for joining truss members together and fastening truss members to their supports. Metal connector plates shall be manufactured by a member of the Wood Truss Council of America (MTC/A) and shall be 20 gauge minimum. Connector plates shall meet or exceed ASTM A653, grade 35, with ASTM A424 galvanized coating designation 40.
Q. Shipment, handling, and erection of trusses shall be by experienced, qualified persons and shall be performed in a manner so as not to endanger life or property. Apparent truss damage shall be reported to the truss manufacturer for evaluation prior to erection. Cutting or alteration of trusses is not permitted.
R. Pre-engineered roof truss design load and deflection criteria are as follows:
Top Chord Dead Load: 32 psf
Top Chord Live Load: 40 psf (private)
100 psf (public)
Bottom Chord Dead Load: 10psf
Allowable Total Load Deflection: L/360
Allowable Live Load Deflection: L/480, 1/2" maximum
S. Pre-engineered roof truss design load and deflection criteria are as follows:
Top Chord Dead Load: 15 psf
Top Chord Live Load (Typical) = 20 psf plus snow drift
Top Chord Live Load (at Recessed Mechanical Units) = 100 psf to account for mechanical equipment plus snow drift. Refer to roof framing plans.
Bottom Chord Dead Load: 10 psf
Include mechanical equipment loads as required (coordinate locations and sizes with MEP)
Allowable Total Load Deflection: L/500
Allowable Live Load Deflection: L/360
T. Wood Shrinkage Considerations:
(General Contractor to coordinate with all trades required):
1) All holes and notches for horizontal plumbing pipes are to be oversized to compensate for shrinkage.
2) Swing joints and flexible connections, offsets and expansion/contraction joints are to be utilized in the fabrication of pipes to allow for shrinkage.
3) Vents are to be installed with double flashing to permit movement.
4) Hangers for piping below upper floor are required to be adjusted several months after completion of construction.
5) Slip joints are required for all sheet metal vertical down-spouts, vents, etc., to compensate for shrinkage.
6) Rigid electrical conduit installed vertically should be provided with flexible joints to permit movement.
7) All roof drains are to be adjusted to the finished roof surface at the time of occupancy and also every year prior to rainy season.
8) Vertical mechanical and sprinkler systems are to be installed to compensate for wood shrinkage.
9) Plates should be fastened tight to precast studs to reduce compressive space between plate and stud to minimize any potential additional shortening of building walls.
10) All wood structural panels on walls are required to have a 1/2" relief gap at each floor level to relieve possible swelling.
11) At stucco construction install horizontal expansion joints, slip joint flashing, etc.
12) At brick veneer construction provide slip joints for flashing. Refer to architect's plans for flashing and clearances required between brick and wood structure at horizontal locations to compensate for wood shrinkage.
13) Delay window and door installation to allow wood framing to reach equilibrium moisture content (EMC). Also, allow 1/2" gap at window sills and a gap around pre-hung doors.
14) Refer to the "ESTIMATED WOOD SHRINKAGE" table on this sheet. The application of finish materials and installation of non-structural systems shall account for shrinkage of the wood framing per the estimated values given.
U. Construction bracing shall be provided by the contractor as required to keep the building and studs plumb.
V. Structural members shall not be cut for pipes, etc., unless specifically detailed. Notching and boring of studs and top of plates shall conform to the provisions of sections 2308.9.10 and 2308.9.11 of the IBC. Where top plates or sole plates are cut for pipes, a metal tension tie with minimum 0.558 inches thick and 1/2" inches wide shall be fastened to each plate across and to each side of the opening with not less than (6) 1/4d nails, in accordance section 2308.9.1b of the IBC.
W. All fasteners for wood to wood connections and wood connectors shall be as indicated in structural drawings or manufacturer literature to achieve full capacity of connector. Alternative fasteners may be submitted as a substitution request. Submittal must show that alternative fasteners will not reduce the capacity of the connection.
13. Shop Drawing Review:
A. Bob D. Campbell and Company, Inc. will review the General Contractor's (GC) shop drawings and related submittals (as indicated below) with respect to the quality of the detailed work, when complete, to be a properly functioning integral element of the overall structural system designed by Bob D. Campbell and Company, Inc.
B. Prior to submittal of a shop drawing or any related material to Bob D. Campbell and Company, Inc., the GC shall:
1) Review each submittal for conformance with the means, methods, techniques, sequences and operations of construction

- and safety precautions and programs incidental thereto, all of which are the sole responsibility of the GC.
2) Review and approve each submittal.
3) Stamp each submittal as approved.
Bob D. Campbell and Company, Inc. shall assume that no submittal comprises a substitution unless the GC advises Bob D. Campbell and Company, Inc. with written documentation.
D. Shop drawings and related material (if any) required are indicated below. Should Bob D. Campbell and Company, Inc. require more than 10 working days to perform the review, Bob D. Campbell and Company, Inc. shall so notify the GC.
1) Concrete mix designs and material certificates including admixtures and compounds applied to the concrete after placement.
2) Reinforcing steel shop drawings including erection drawings and bending details. Bar list will not be reviewed for correct quantities.
3) Elevations of all reinforced concrete masonry walls at a scale no smaller than 3/8" = 1'-0" showing all required reinforcing.
4) Grout mix designs (for CMU).
5) Construction and control joint plans and/or elevations.
6) Structural steel shop drawings including erection drawings and piece details. Include miscellaneous framing specified on the structural drawings, but do not submit framing specified on non-structural drawings for Bob D. Campbell and Company, Inc. review.
7) Structural steel connection design calculations.
8) Miscellaneous anchors shown on the structural drawings.
9) Wood truss design calculations and detailed erection and fabrication drawings. Standard stick framing shop drawings need not be submitted.
E. Bob D. Campbell and Company, Inc. shall review shop drawings and related materials with comments provided that each submittal has met the above requirements. Bob D. Campbell and Company, Inc. shall return without comment unrequired material or submittals without GC approval stamp.
14. Structural Steel Inspection:
A. The structural design for this project is based on completion of special inspections during construction in accordance with section 1704 of the 2015 International Building Code. The owner shall employ one or more qualified special inspectors to provide the required special inspections.
B. Special inspections shall be required for the items indicated below. The General Contractor shall provide notification to the inspector when items requiring inspection are ready to be inspected and provide access for these inspections.
1) Placement of Concrete
2) Testing of Concrete
3) Bolts in Concrete
4) Placement of Reinforcing Steel
5) Verification of Soil Bearing Capacities
6) Post-Installed Anchors
7) Structural Welding
8) Steel Frame Inspection
9) Structural Masonry
10) Shop Fabrication of Structural Steel
11) Wood shear walls and holdowns
12) Wood gravity framing and placement
C. The special inspector shall furnish inspection reports to the building official, owner, architect and structural engineer, and any other designated person.
D. All discrepancies shall be brought to the immediate attention of the contractor for correction. Then, if uncorrected, to the proper design authority building official and structural engineer.
E. The special inspector shall submit a final signed report stating that the work requiring special inspection was, to the best of the inspector's knowledge, in conformance with the approved plans and specifications and the applicable workmanship provisions of the building code.
15. Copyright and Disclaimer:
A. All drawings in the structural set (5-series drawings) are the copyrighted work of Bob D. Campbell and company, Inc. These drawings may not be photographed, traced, or copies in any manner without the written permission of Bob D. Campbell and Company, Inc. Exception: Original drawings may be printed for distribution to the owner, architect, and general contractor for coordination, bidding, and construction. Subcontractors may not reproduce these drawings for any purpose or in any manner.
B. I, Michael J. Falbe, P.E., registered engineer and a representative of Bob D. Campbell and Company, Inc., do hereby accept professional responsibility as required by the professional registration laws of this state for the structural design drawings consisting of 5-series drawings. I hereby disclaim responsibility for all other drawings in the construction document package, they being the responsibility of other design professionals whose seals and signed statements may appear elsewhere in the construction document package.

STRUCTURAL DESIGN CRITERIA:

GOVERNING CODE: 2015 International Building Code

DESIGN LIVE LOADS:

- Roof 20 psf
• Floors (slab on grade) 100 psf
• Private Rooms & Corridors Serving Them 40 psf
• Public Rooms & Corridors Serving Them 100 psf

SNOW LOADING:

- Ground Snow Load Pg = 20 psf
• Flat Roof Snow Load Pf = 14 psf
• Snow Exposure Factor Ce = 1.0
• Snow Load Importance Factor Is = 1.0
• Thermal Factor Ct = 1.0
• Drift per ASCE/SEI 7-10

WIND LOADING:

- Main Wind-force Resisting System (MFRS):
• Ultimate Design Wind Speed Vult = 115 mph
• Nominal Design Wind Speed Vsd = 84 mph
• Risk Category II
• Wind Load Importance Factor Iw = 1.0
• Wind Exposure Category C
• Internal Pressure Coefficient (Enclosed) GcP = +/-0.18

Components & Cladding:

- Design wind pressures to be used for the design of exterior component and cladding materials on the designated zones of wall and roof surfaces shall be per ASCE/SEI 7-10. Tabulated pressures shall be multiplied by effective area reduction factors, exposure adjustment factors, and topographic factors where applicable.

SEISMIC DESIGN REQUIREMENTS:

- Risk Category II
• Seismic Importance Factor Is = 1.0
• Spectral Response Acceleration Parameters:
Sds = 0.108g
Sdl = 0.083g
• Site Class C
• Seismic Design Category B

ESTIMATED WOOD SHRINKAGE

Table with 3 columns: LEVEL, SHRINKAGE AT LEVEL, CUMULATIVE SHRINKAGE. Rows include ROOF, 3RD FLOOR, 2ND FLOOR.

NOTES:

- 1. REFER TO GENERAL NOTES FOR WOOD SHRINKAGE CONSIDERATIONS.
2. THE APPLICATION OF ALL FINISH MATERIALS AND INSTALLATION OF NON-STRUCTURAL SYSTEMS SHALL ACCOUNT FOR SHRINKAGE OF THE WOOD FRAMING PER THE ESTIMATED VALUES GIVEN.

SWD ARCHITECTS

BST 1935

ARCHITECTURAL CORPORATION OKLAHOMA CERTIFICATE OF AUTHORITY NO. CA 02479

TIMBER RIDGE COTTAGES

SECTION 8, TOWNSHIP 18, RANGE 15, BROKEN ARROW, WAGONER COUNTY, OK

STARK WILSON DUNCAN ARCHITECTS INC. 315 NICHOLS RD., STE 228 - KANSAS CITY, MO 64112 - T 816.331.1656 F 816.651.1978

SEAL ENGINEER - MICHAEL J. FALBE LICENSE NO. 20065



GENERAL NOTES

ISSUE DATE: OCTOBER 18, 2019 REVISIONS:

PROJECT NO.: 1902

ASO.1

SHEAR WALL SCHEDULE							
SHEAR WALL TYPE (PER PLAN)	SHEATHING & ATTACHMENT				CHORD STUDS (EACH END)	ANCHOR TIEDOWN SYSTEM (EACH END)	CUMULATIVE TENSION / COMPRESSION LOAD AT EACH END OF SHEAR WALL (kips)
	1st FLOOR WALL SHEATHING	2nd FLOOR WALL SHEATHING	3rd FLOOR WALL SHEATHING	4th FLOOR WALL SHEATHING			
A	3/4" OSB BOTH SIDES; 10d NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	3/4" OSB BOTH SIDES; 10d NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	3/4" OSB ONE SIDE; 10d NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	3/4" OSB ONE SIDE; 10d NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	(6) 2x6's (RE: SECTION 1/50.3)	SIMPSON STRONG-TIE ATS PER SECTION 1/50.3	T = 23.2 kips C = 23.2 kips
B	3/4" OSB BOTH SIDES; 10d NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	3/4" OSB BOTH SIDES; 10d NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	3/4" OSB ONE SIDE; 10d NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	3/4" OSB ONE SIDE; 10d NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	(8) 2x6's (RE: SECTION 1/50.3)	SIMPSON STRONG-TIE ATS PER SECTION 1/50.3	T = 28.4 kips C = 28.4 kips
C	3/4" OSB BOTH SIDES; 10d NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	3/4" OSB BOTH SIDES; 10d NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	3/4" OSB ONE SIDE; 10d NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	3/4" OSB ONE SIDE; 10d NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	(8) 2x6's (RE: SECTION 1/50.3)	SIMPSON STRONG-TIE ATS PER SECTION 1/50.3	T = 28.4 kips C = 28.4 kips
D	3/4" OSB ONE SIDE; 10d NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	3/4" OSB ONE SIDE; 10d NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	3/4" OSB ONE SIDE; 10d NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING		(6) 2x6's (RE: SECTION 1/50.3)	SIMPSON STRONG-TIE ATS PER SECTION 1/50.3	T = 10.9 kips C = 10.9 kips
E	3/8" GYP. ONE SIDE; No. 6 TYPE S OR W 1 1/2" LONG DRYNAIL SCREWS @4"oc, @4"oc	3/8" GYP. ONE SIDE; No. 6 TYPE S OR W 1 1/2" LONG DRYNAIL SCREWS @4"oc, @4"oc	3/8" GYP. ONE SIDE; No. 6 TYPE S OR W 1 1/2" LONG DRYNAIL SCREWS @4"oc, @4"oc	3/8" GYP. ONE SIDE; No. 6 TYPE S OR W 1 1/2" LONG DRYNAIL SCREWS @4"oc, @4"oc	(6) 2x6's (RE: SECTION 1/50.3)	SIMPSON STRONG-TIE ATS PER SECTION 1/50.3	T = 12.6 kips C = 12.6 kips

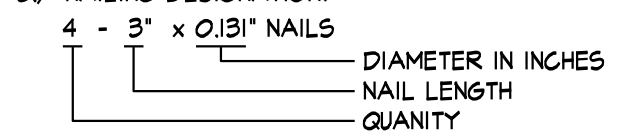
NOTES:
1. ALL SHEATHING SHALL BE FULLY BLOCKED. PROVIDE 2x6 BLOCKING BETWEEN STUDS AS REQUIRED TO ACHIEVE FASTENER SPACING AT PANEL EDGES.

HEADER SCHEDULE				
TYPE	HEADER SIZE	BEARING STUDS BELOW EACH END OF HEADER	CONTINUOUS JAMB STUDS AT EACH END	REMARKS
(A-1A)	(3) 2x10's w/ (2) 1/2" PLYWOOD SPACERS	(1) 2x6	(2) 2x6	RE: SECTION 3/0.3
(A-1B)	(3) 2x10's w/ (2) 1/2" PLYWOOD SPACERS	(1) 2x6	(1) 2x6	RE: SECTION 3/0.3
(A-1C)	(2) 2x10's w/ (1) 1/2" PLYWOOD SPACER	(1) 2x4	(1) 2x4	RE: SECTION 3/0.3
(A-2A)	(3) 2x10's w/ (2) 1/2" PLYWOOD SPACERS	(2) 2x6	(2) 2x6	RE: SECTION 3/0.3
(A-2B)	(3) 2x10's w/ (2) 1/2" PLYWOOD SPACERS	(2) 2x6	(1) 2x6	RE: SECTION 3/0.3
(A-2C)	(2) 2x10's w/ (1) 1/2" PLYWOOD SPACER	(2) 2x4	(1) 2x4	RE: SECTION 3/0.3
(A-3A)	(3) 2x10's w/ (2) 1/2" PLYWOOD SPACERS	(2) 2x6	(2) 2x6	RE: SECTION 3/0.3
(A-3B)	(3) 2x10's w/ (2) 1/2" PLYWOOD SPACERS	(2) 2x6	(1) 2x6	RE: SECTION 3/0.3
(A-3C)	(2) 2x10's w/ (1) 1/2" PLYWOOD SPACER	(2) 2x4	(1) 2x4	RE: SECTION 3/0.3
(A-4A)	(3) 2x10's w/ (2) 1/2" PLYWOOD SPACERS	(3) 2x6	(2) 2x6	RE: SECTION 3/0.3
(A-4B)	(3) 2x10's w/ (2) 1/2" PLYWOOD SPACERS	(3) 2x6	(1) 2x6	RE: SECTION 3/0.3
(A-4C)	(2) 2x10's w/ (1) 1/2" PLYWOOD SPACER	(2) 2x4	(1) 2x4	RE: SECTION 3/0.3

NOTES:
1. REFER TO SECTION 3/0.3 FOR TYPICAL HEADER DETAIL.
2. ADD PLYWOOD SPACER(S) AS NEEDED TO LVL HEADERS TO MATCH STUD WIDTH.

NAILING SCHEDULE (REFER TO NOTES #1 and #2)		
CONNECTION	ATTACHMENTS (REF NOTE #3 and #4)	
JOIST TO GIRDER	3- 3" x 0.131" NAILS-TOENAIL	3-8d NAILS-TOENAIL
BRIDGING TO JOIST	2- 3" x 0.131" NAILS-TOENAIL EACH END	2-8d NAILS-TOENAIL EACH END
SOLE PLATE TO JOIST OR BLOCKING	3" x 0.131" NAILS AT 8"oc. TYPICAL FACE NAIL 4-3" x 0.131" NAILS AT 16"oc. BRACED WALL PANELS	16d BOX NAILS AT 16"oc. MAX. FACE NAILING 3-16d BOX NAILS AT 16"oc. BRACED WALL PANEL
TOP PLATE TO STUD	3- 3" x 0.131" NAILS-END NAIL	2-16d NAILS-END NAIL
STUD TO SOLE PLATE	4- 3" x 0.131" NAILS-TOENAIL OR 3- 3" x 0.131" NAILS-END NAIL	4-8d NAILS-TOENAIL OR 2-16d NAILS-END NAIL
DOUBLE STUDS	3" x 0.131" NAILS AT 8"oc. FACE NAIL	16d BOX NAILS AT 24"oc. MAX. FACE NAIL
DOUBLED TOP PLATES	3" x 0.131" NAILS AT 12"oc. FACE NAIL	16d BOX NAILS AT 16"oc. MAX. FACE NAIL
DOUBLE TOP PLATE LAPS AND INTERSECTIONS	12-3" x 0.131" NAILS	8-16d NAILS
BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	3-3" x 0.131" NAILS -TOENAIL	3-8d NAILS-TOENAIL
RIM JOIST TO TOP PLATE	3" x 0.131" NAILS AT 6"oc. TOENAIL	8d NAILS AT 6"oc. MAX. TOENAIL
TOP PLATE LAPS AND INTERSECTIONS	3- 3" x 0.131" NAILS-FACE NAIL	2-16d NAILS-FACE NAIL
CONTINUOUS HEADER, TWO PIECES	3" x 0.131" NAILS AT 10"oc. ALONG EACH EDGE	16d NAILS AT 16"oc. MAX. ALONG EACH EDGE-TOENAIL
CEILING JOISTS TO PLATE	5- 3" x 0.131" NAILS-TOENAIL	3-8d NAILS-TOENAIL
CONTINUOUS HEADER TO STUD	4- 3" x 0.131" NAILS-TOENAIL	4-8d NAILS-TOENAIL
CEILING JOISTS, LAPS OVER PARTITIONS	4- 3" x 0.131" NAILS-FACE NAIL	3-16d NAILS-FACE NAIL
CEILING JOISTS TO PARALLEL RAFTERS	4- 3" x 0.131" NAILS-FACE NAIL	3-16d NAILS-FACE NAIL
RAFTER TO PLATE	3- 3" x 0.131" NAILS-TOENAIL	3-8d NAILS-TOENAIL
1" BRACE TO EACH STUD AND PLATE	2- 3" x 0.131" NAILS-FACE NAIL	2-8d NAILS-FACE NAIL
BUILT-UP CORNER AND MULTIPLE STUDS	3" x 0.131" NAILS AT 16"oc.	16d NAILS AT 24"oc. MAX.
BUILT-UP GIRDER AND BEAMS	3" x 0.131" NAILS AT 24"oc. FACE NAILED TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES 3- 3" x 0.131" NAILS AT ENDS AND EACH SPLICE	20d NAILS AT 32"oc. MAX. TOP AND BOTTOM, STAGGERED ON OPPOSITE SIDES. 2-20d NAILS AT ENDS AND EACH SPLICE
BUILT-UP LAMINATED VENEER LUMBER BEAMS	3" x 0.131" NAILS AT 6"oc. TOP AND BOTTOM ALONG EDGE	16d NAILS AT 12"oc. TOP AND BOTTOM ALONG EDGE
2" PLANKING	4- 3" x 0.131" NAILS AT EACH SUPPORT	16d NAILS AT EACH SUPPORT

NOTES:
1) ALL NAILS SHALL BE AS NOTED UNLESS OTHERWISE SPECIFIED ON STRUCTURAL DRAWINGS OR ALTERNATE PROVIDED BY ENGINEER IN WRITING.
2) CONDITIONS NOT SPECIFIED SHALL BE IN ACCORDANCE WITH CURRENT INTERNATIONAL BUILDING CODE.
3) NAILING DESIGNATION:



4) ALL NAILS NOTED AS 8d, 10d, 16d, ETC. SHALL BE COMMON NAILS UNLESS NOTED BOX.

STUD BEARING WALL SCHEDULE	
1st FLOOR EXTERIOR WALLS	(2) 2x6 @16"oc
1st FLOOR INTERIOR WALLS	(2) 2x6 @16"oc
2nd FLOOR EXTERIOR WALLS	2x6 @16"oc
2nd FLOOR INTERIOR WALLS	2x6 @16"oc
3rd FLOOR EXTERIOR WALLS	2x6 @16"oc
3rd FLOOR INTERIOR WALLS	2x6 @16"oc
4th FLOOR EXTERIOR WALLS	2x6 @16"oc
4th FLOOR INTERIOR WALLS	2x6 @16"oc

NOTES:
1. REFER TO SECTION 2/50.3 FOR TYPICAL LOAD-BEARING WALL FRAMING ELEVATION.
2. PROVIDE JAMB STUDS AT WALL OPENINGS PER HEADER SCHEDULE ON THIS SHEET. PROVIDE MATCHING SQUASH BLOCKS & CRIPPLE STUDS PER SECTION 3/0.3 TO TRANSFER LOADS BETWEEN FLOORS.
3. UNLESS NOTED OTHERWISE, PROVIDE STUD PACKS CONSISTING OF (4) BEARING STUDS MINIMUM AT ALL PARALLEL PSL BEAM BEARING LOCATIONS. STUD PACKS SHALL BE CONTINUOUS FROM BEARING ELEVATION DOWN TO FOUNDATION w/ MATCHING SQUASH BLOCKS AT FLOOR LEVELS. REFER TO SECTION 4/50.3 FOR FASTENING OF STUD PACKS.
4. UNLESS NOTED OTHERWISE, PROVIDE STUD PACKS CONSISTING OF ONE STUD FOR EACH PLY OF GIRDER TRUSSES OR (3) BEARING STUDS MINIMUM AT ALL GIRDER TRUSS BEARING LOCATIONS. STUD PACKS SHALL BE CONTINUOUS FROM BEARING ELEVATION DOWN TO FOUNDATION w/ MATCHING SQUASH BLOCKS AT FLOOR LEVELS. REFER TO SECTION 4/50.3 FOR FASTENING OF STUD PACKS.
5. AT ELEVATOR WALLS, PROVIDE STUD PACKS CONSISTING OF (5) 2x6 STUDS AT EACH LEVEL AT ELEVATOR RAIL LOCATIONS FOR RAIL BRACKET ATTACHMENTS. COORDINATE w/ ELEVATOR SUPPLIER.

WALL SHEATHING SCHEDULE			
LOCATION	SHEATHING	FASTENER SPACING	
		PANEL EDGE	FIELD
EXTERIOR WALL (EXTERIOR SIDE) U.N.O. PER SHEAR WALL SCHEDULE	3/4" OSB	8d COMMON NAILS @6"oc	8d COMMON NAILS @12"oc
EXTERIOR WALL (INTERIOR SIDE) U.N.O. PER SHEAR WALL SCHEDULE	3/8" GYPSUM BOARD	6d COOLER NAILS @4"oc	6d COOLER NAILS @7"oc
INTERIOR WALL U.N.O. PER SHEAR WALL SCHEDULE	3/8" GYPSUM BOARD	6d COOLER NAILS @4"oc	6d COOLER NAILS @7"oc

NOTES:
1. ALL SHEATHING SHALL BE FULLY BLOCKED. PROVIDE 2x6 BLOCKING BETWEEN STUDS AS REQUIRED TO ACHIEVE FASTENER SPACING AT PANEL EDGES.
2. REFER TO SHEAR WALL SCHEDULE FOR SHEATHING OF SHEAR WALLS.

FLOOR & ROOF DECK SCHEDULE			
LOCATION	DECKING	FASTENER SPACING	
		PANEL EDGE	FIELD
ROOF DECK	1/4" OSB	8d COMMON NAILS @6"oc	8d COMMON NAILS @12"oc
FLOOR DECK	3/4" T&G PLYWOOD	10d RING SHANK NAILS @6"oc (GLUED & NAILED)	10d RING SHANK NAILS @12"oc (GLUED & NAILED)

FOOTING SCHEDULE		
FOOTING TYPE	FOOTING SIZE (FT.) x THICKNESS (IN.)	REINFORCING (EACH WAY)
(3)0	3'-0"x3'-0"x32" Dp	#4@6"oc TOP & BOT.
(6)0	6'-0"x6'-0"x32" Dp	#5@6"oc TOP & BOT.
(5x10)	5'-0"x10'-0"x32" Dp	#5@6"oc TOP & BOT.
(7x12)	7'-0"x12'-0"x32" Dp	#5@6"oc TOP & BOT.

NOTES:
1. SPREAD FOOTINGS SHALL BE POURED MONOLITHIC w/ GRADE BEAMS. REINFORCING FOR GRADE BEAMS SHALL BE CONTINUOUS THROUGH SPREAD FOOTINGS.

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OKLAHOMA CERTIFICATE
OF AUTHORITY NO. CA 02479

TIMBER RIDGE COTTAGES
SECTION 8, TOWNSHIP 18, RANGE 15
BROKEN ARROW, WAGONER COUNTY, OK

STARK WILSON DUNCAN ARCHITECTS, INC.
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112-1166
F 816.531.1976

SEAL
ENGINEER - MICHAEL J. FALBE
LICENSE NO. 20065



GENERAL NOTES & SCHEDULES

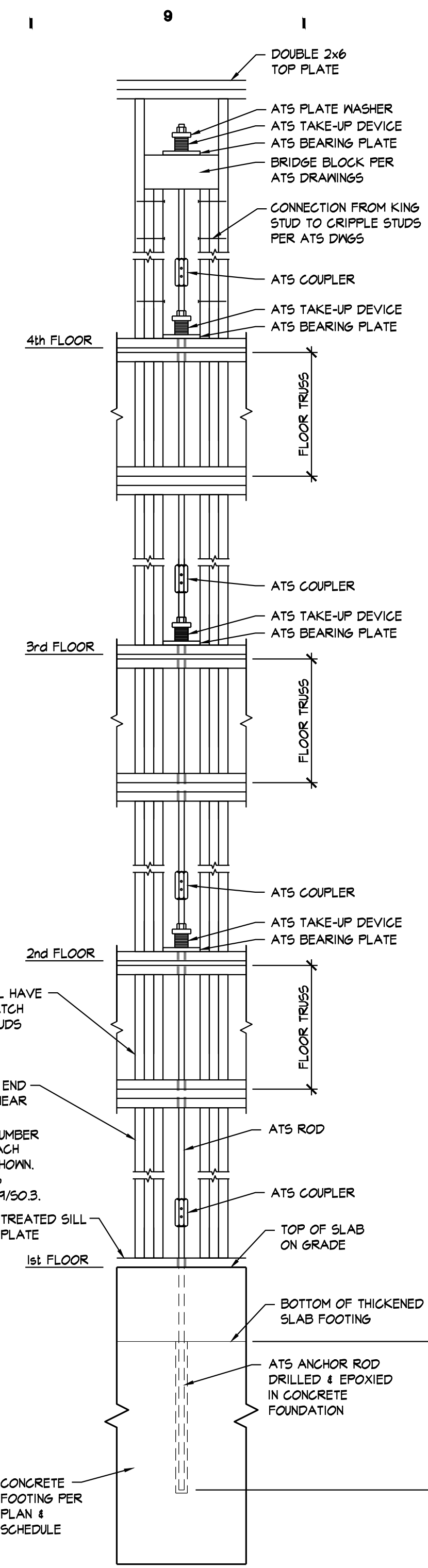
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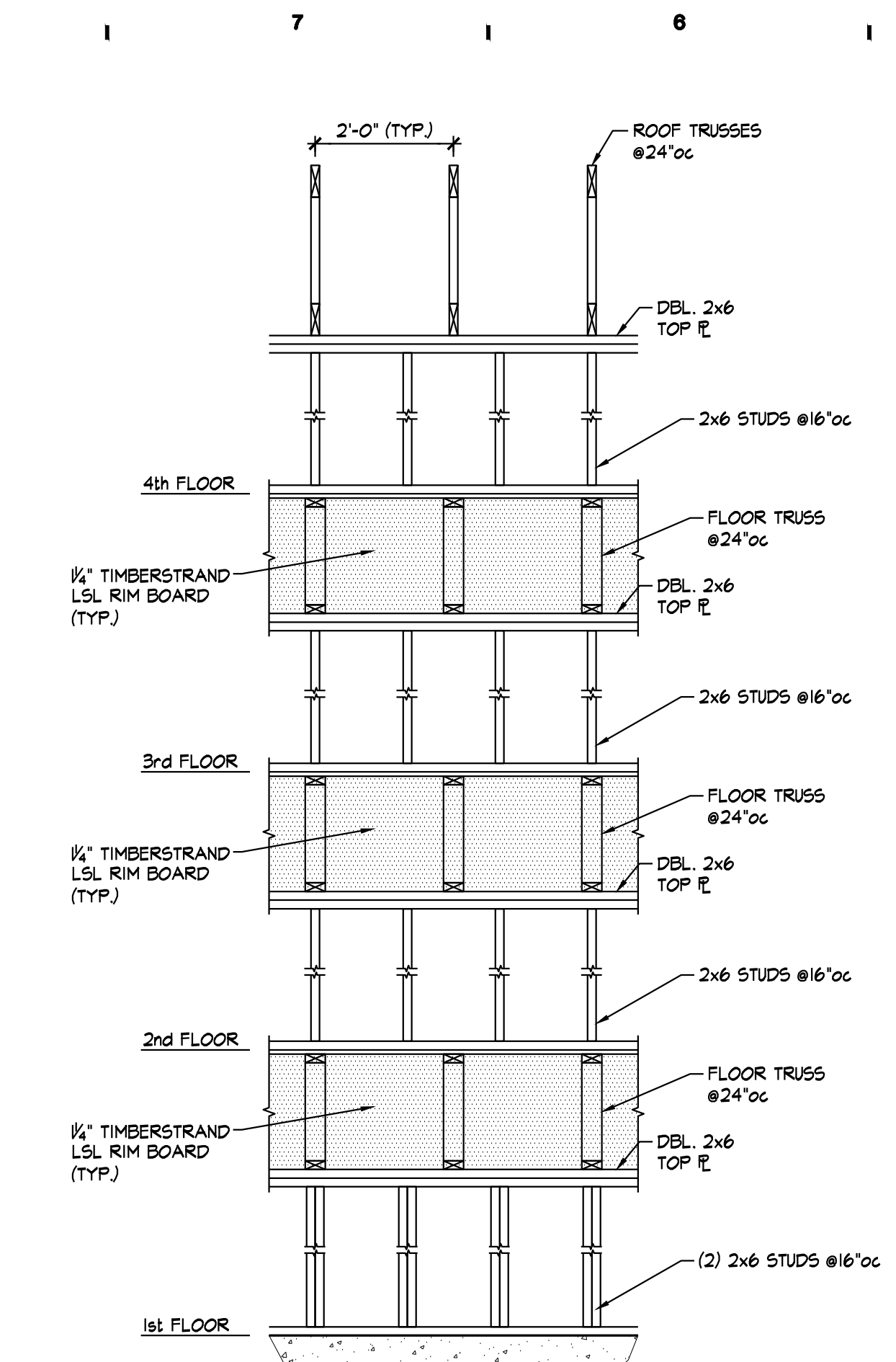
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ELEVATION 1
 $\frac{3}{4}'' = 1'-0''$ S0.3



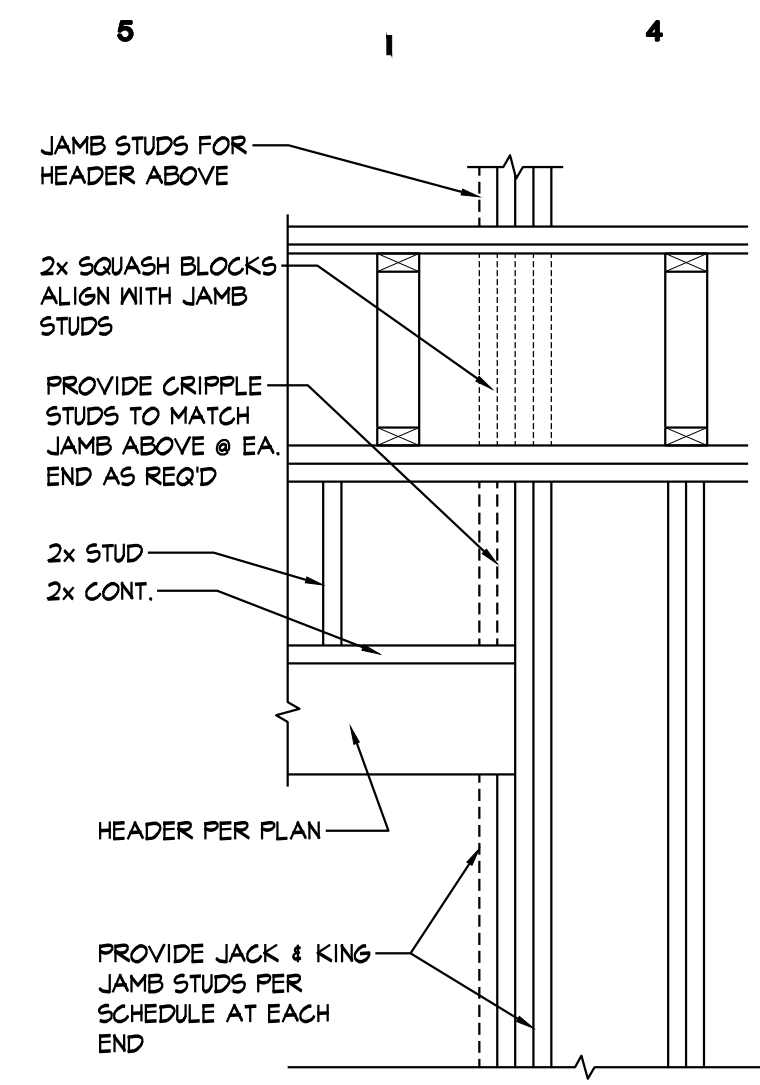
ELEVATION 2
 $\frac{1}{2}'' = 1'-0''$ S0.3

- ANCHOR TIEDOWN SYSTEM GENERAL NOTES**
- SIMPSON STRONG-TIE SHALL PROVIDE THE ANCHOR TIEDOWN SYSTEM TO MEET THE DESIGN FORCES AND ELONGATION LIMITS PROVIDED. AT'S DRAWINGS AND CALCULATIONS SHALL BE PROVIDED FOR REVIEW AND APPROVAL.
 - SHEAR WALLS SHALL BE SUPPORTED WITH A BEARING PLATE AND NUT AT EVERY STORY LEVEL. SKIPPING SHEAR WALL OVERTURNING RESTRAINT AT ANY LEVEL IS NOT PERMITTED.
 - SHRINKAGE COMPENSATION DEVICES SHALL BE USED TO ACCOUNT FOR THE SHRINKAGE AT EACH LEVEL.
 - ANCHOR BOLTS SHALL NOT BE IN CONTACT WITH PRESSURE TREATED WOOD (PTW). PTW FLATES SHALL HAVE OVERSIZE HOLES $\frac{1}{16}$ INCH MINIMUM AND $\frac{3}{16}$ INCH MAXIMUM LARGER THAN ROD SIZE. AS AN ALTERNATE, THE ANCHOR SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A653.
 - DO NOT WELD PRODUCTS UNLESS THESE DRAWINGS SPECIFICALLY IDENTIFY A PRODUCT AS ACCEPTABLE FOR WELDING, OR UNLESS SPECIFIC APPROVAL FOR WELDING IS PROVIDED BY SIMPSON STRONG-TIE. SOME STEELS HAVE POOR WELDABILITY AND A TENDENCY TO CRACK WHEN WELDED. CRACKED STEEL WILL NOT CARRY LOAD AND MUST BE REPLACED. NUTS AND COUPLER SHALL NOT BE WELDED.
 - IN THE EVENT OF A DISCREPANCY BETWEEN THESE STRUCTURAL DRAWINGS AND THE AT'S DRAWINGS, THE STRUCTURAL DRAWINGS ALWAYS GOVERN.
 - THESE DRAWINGS ARE SPECIFIC TO AT'S AND ARE NOT APPLICABLE TO OTHER MANUFACTURER TIEDOWN SYSTEMS. CONTRACTOR'S PROPOSED SUBSTITUTION OF OTHER MANUFACTURER'S CONNECTORS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER AND BUILDING JURISDICTION FOR REVIEW AND WRITTEN APPROVAL PRIOR TO ORDERING AT THE EXPENSE OF THE CONTRACTOR. REQUESTS FOR SUBSTITUTION SHALL INCLUDE CURRENT ICC-ES EVALUATION REPORTS AND A LIST STATING THE PROPOSED ITEM-FOR-ITEM SUBSTITUTION HAS EQUIVALENT OR GREATER LOAD CAPACITY AND DEFLECTION LIMITATION. IN ADDITION, SUBSTITUTIONS SHALL COMPLY WITH CURRENT ICC-ES ACCEPTANCE CRITERIA FOR SHRINKAGE COMPENSATING DEVICES (AC308).
 - A PRE-CONSTRUCTION MEETING IS RECOMMENDED WITH SIMPSON STRONG-TIE PRIOR TO PLACEMENT OF THE CONCRETE TO ASSIST IN THE INSTALLATION PROCESS AND VERIFY QUANTITIES. TO COORDINATE THIS MEETING, CALL SIMPSON SALES AT 800-444-5044.

BUILT-UP STUD PACK COLUMN ATTACHMENT SCHEDULE

MEMBER COUNT	ATTACHMENT SCHEDULE
2-PLY MEMBERS	10d NAILS AT 12" OC, 1" FROM EDGE, W/ OPPOSITE EDGE NAILED FROM OPPOSITE SIDE OFFSET 6", @ 12" OC W/ FIRST NAIL 2" FROM EA. END
3-PLY MEMBERS	20d NAILS AT 16" OC, 1 1/2" FROM EDGE W/ OPPOSITE EDGE NAILED FROM OPPOSITE SIDE OFFSET 6", @ 16" OC W/ FIRST NAIL 3" FROM EA. END
4-PLY MEMBERS	1/4" x 5" SIMPSON SDS SCREWS AT 16" OC, 1 1/2" FROM EDGE W/ OPPOSITE EDGE SCREWED FROM OPPOSITE SIDE OFFSET 6", @ 16" OC W/ FIRST SCREW 4" FROM EA. END
5-PLY MEMBERS	1/4" x 6" SIMPSON SDS SCREWS AT 12" OC, 1 1/2" FROM EDGE W/ OPPOSITE EDGE SCREWED FROM OPPOSITE SIDE OFFSET 6", @ 12" OC W/ FIRST SCREW 4" FROM EA. END

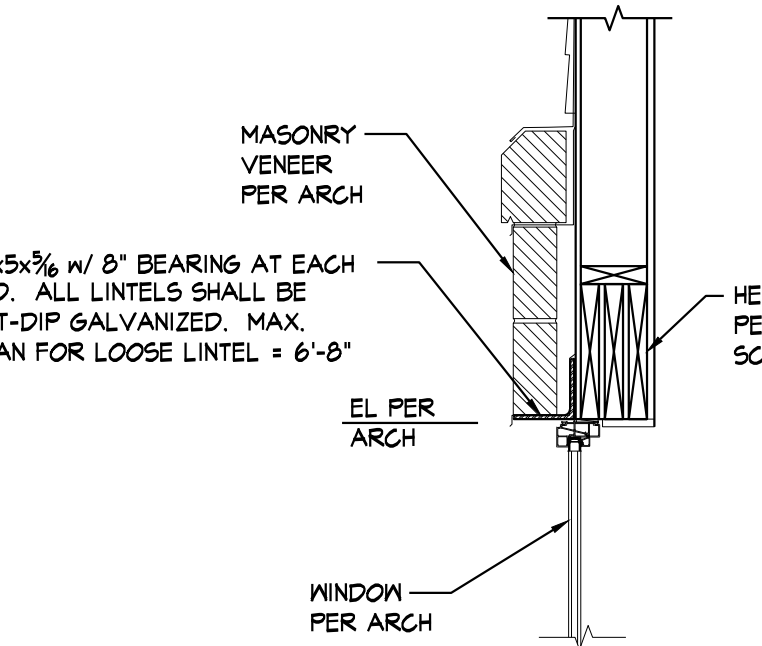
SECTION 9
 $\frac{1}{2}'' = 1'-0''$ S0.3



TYPICAL HEADER DETAIL

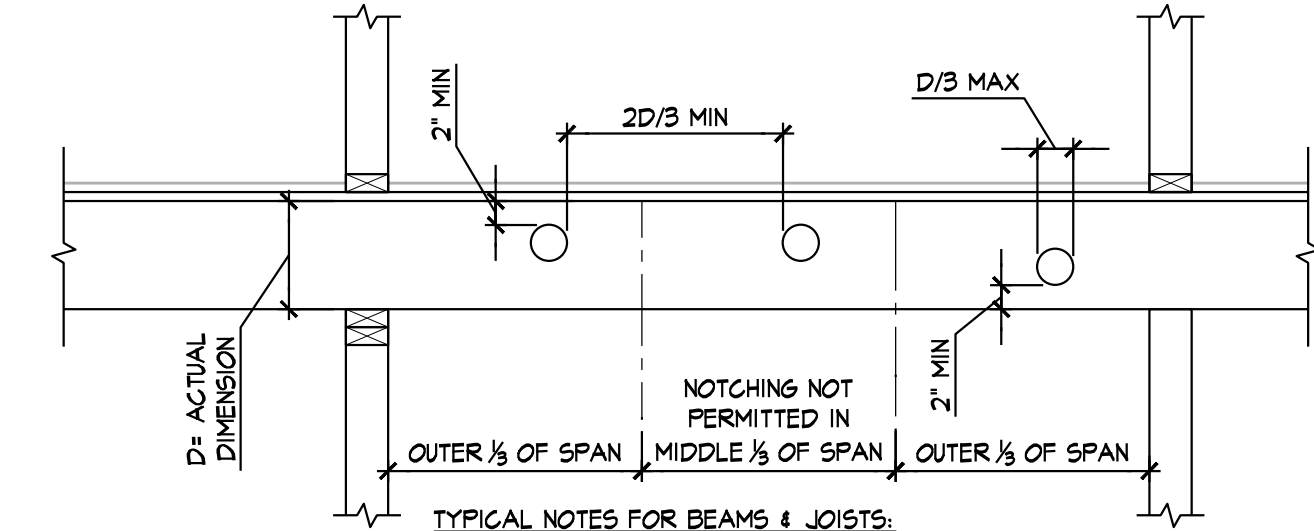
- REFER TO PLAN & SCHEDULE FOR LOCATIONS & SIZES.
- REFER TO SECTION 3A/S0.3 FOR TYPICAL HEADER DETAIL AT ROOF TRUSS BEARING LOCATIONS.
- REFER TO SECTION 3B/S0.3 FOR TYPICAL HEADER DETAIL AT ROOF TRUSS BEARING LOCATIONS W/ HEADER DIRECTLY BELOW DOUBLE TOP PLATE.

SECTION 3
 $\frac{3}{4}'' = 1'-0''$ S0.3



TYPICAL LOOSE LINTEL DETAIL

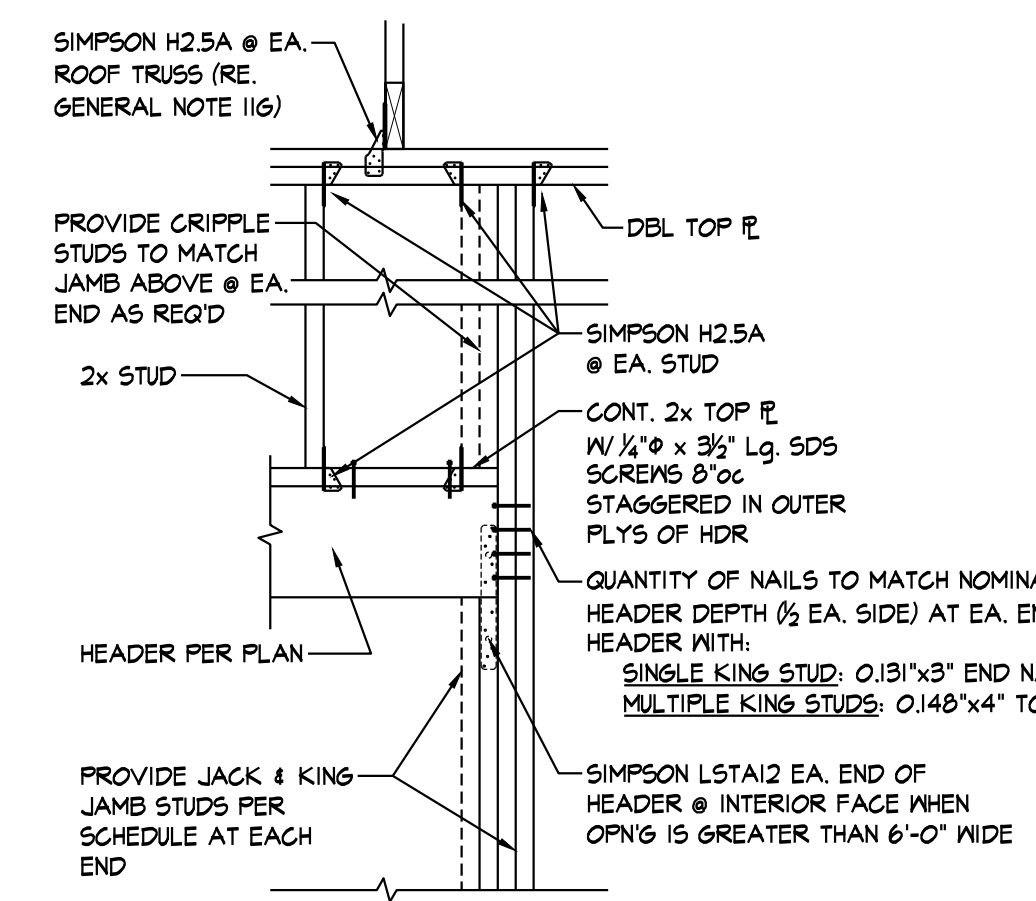
SECTION 4
 $\frac{3}{4}'' = 1'-0''$ S0.3



SECTION 5
 $\frac{3}{4}'' = 1'-0''$ S0.3

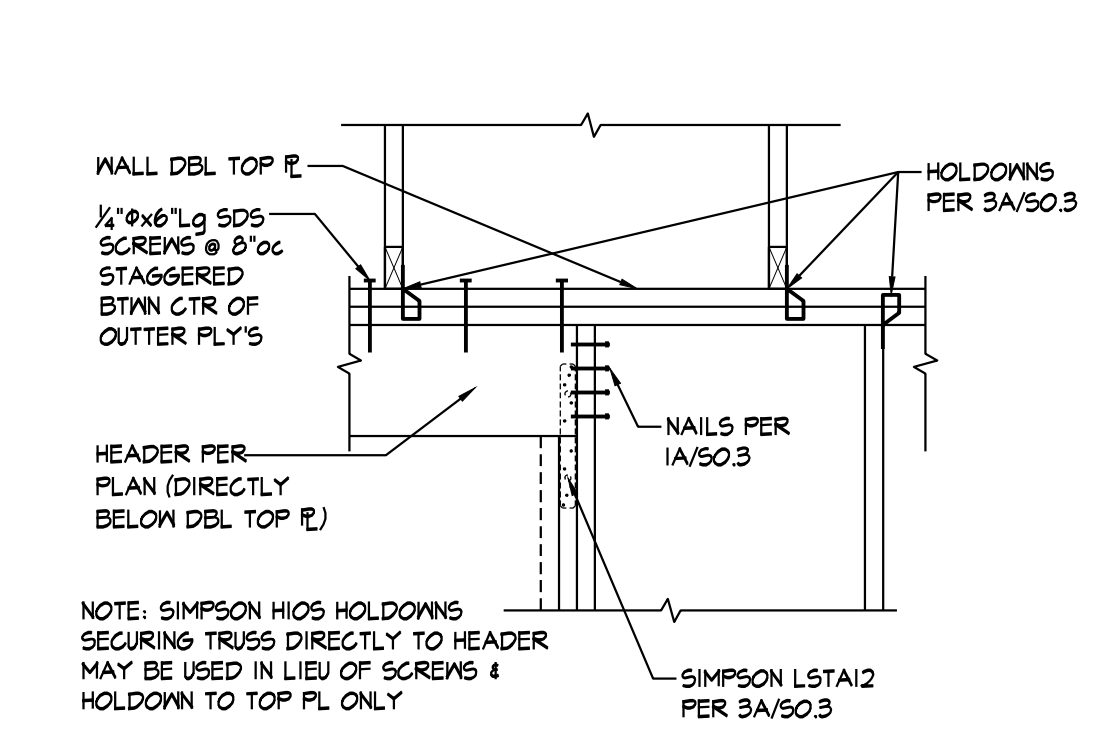
- TYPICAL NOTES FOR BEAMS & JOISTS**
- CONTACT ARCHITECT PRIOR TO CUTTING JOISTS TO VERIFY SIZE AND LOCATION.
 - DETAIL APPLIES TO DIMENSIONAL LUMBER FRAMING ONLY. REFER TO ENGINEERED OR COMPOSITE LUMBER MANUFACTURER'S RECOMMENDATIONS AT PSLs, LVLs, LSLs & GLULAM.

SECTION 7
 $\frac{3}{4}'' = 1'-0''$ S0.3



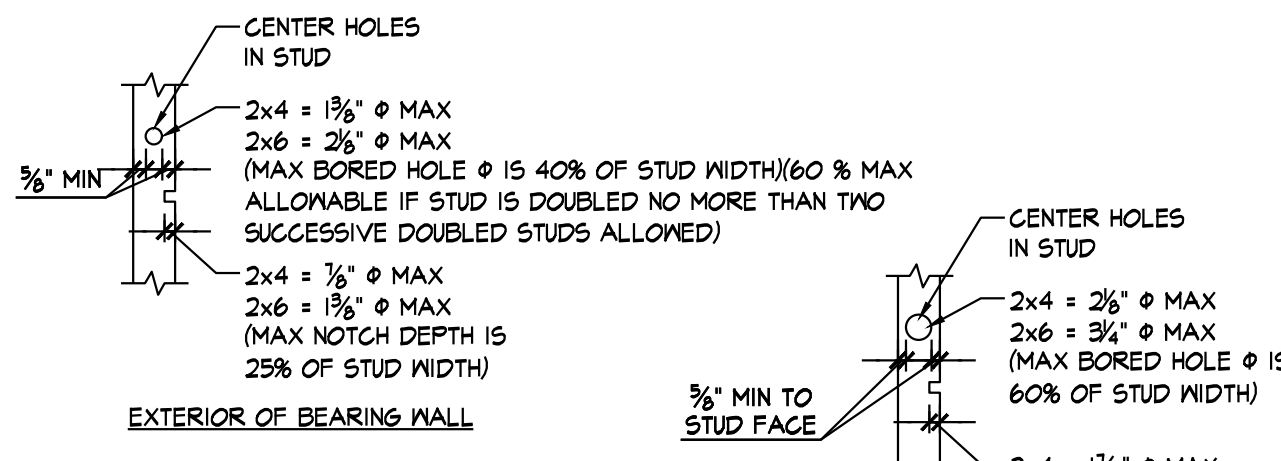
TYPICAL HEADER DETAIL AT ROOF TRUSS BEARING LOCATIONS

SECTION 3A
 $\frac{3}{4}'' = 1'-0''$ S0.3



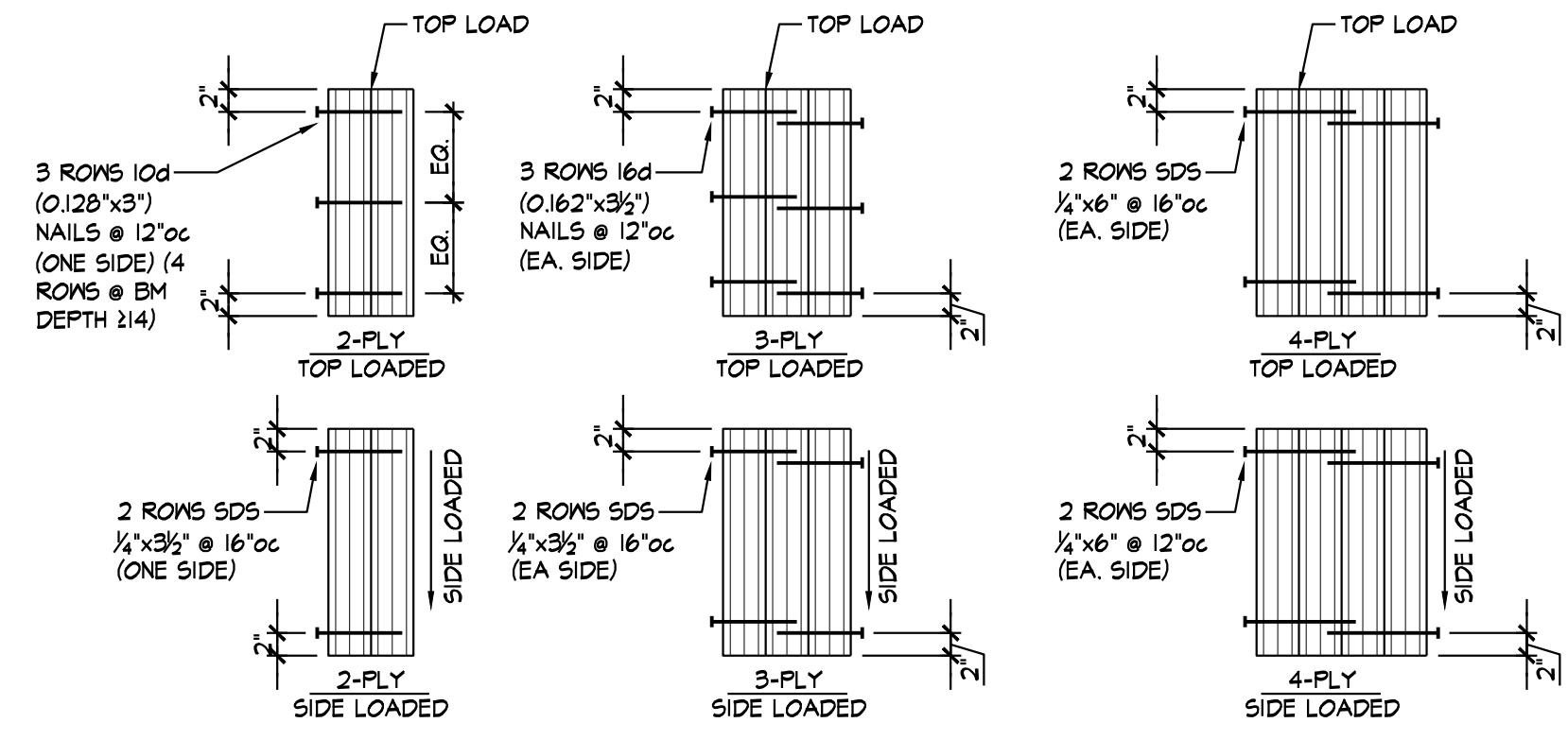
TYPICAL HEADER DETAIL AT ROOF TRUSS BEARING LOCATIONS W/ HEADER DIRECTLY BELOW DOUBLE TOP PLATE

SECTION 3B
 $\frac{3}{4}'' = 1'-0''$ S0.3



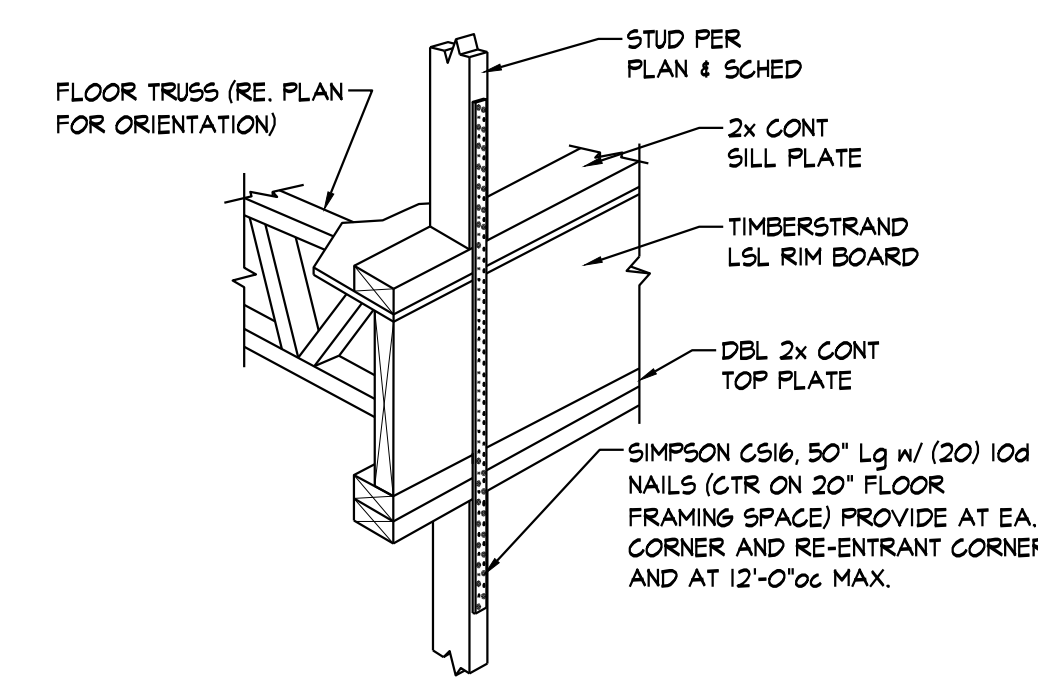
- TYPICAL NOTES FOR BEARING WALLS**
- HOLES SHALL NOT BE LOCATED IN THE SAME STUD AS A CUT OR NOTCH.
 - CONTACT ARCHITECT PRIOR TO CUTTING OR NOTCHING TO VERIFY SIZE AND LOCATION IF HOLES GREATER THAN 20% STUD WIDTH OR NOTCHES GREATER THAN 10% STUD WIDTH ARE REQUIRED IN TWO OR MORE CONSECUTIVE STUDS.
 - NOTCHES OR HOLES NOT PERMITTED IN JAMBS, STUD PACKS AND AT ENDS OF SHEARWALLS.

SECTION 6
 $\frac{3}{4}'' = 1'-0''$ S0.3



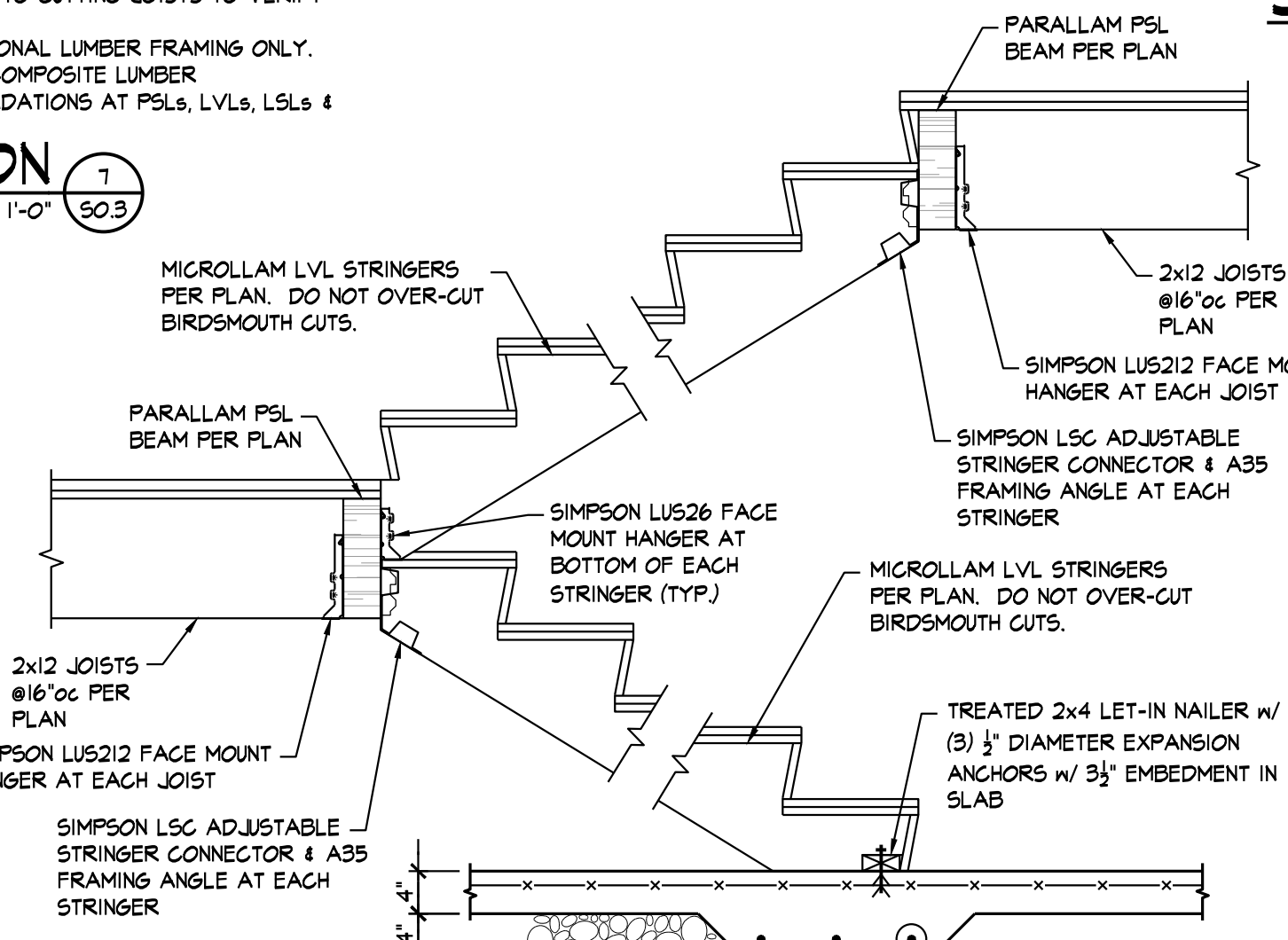
TYPICAL CONNECTION OF MULTIPLE PLY LVL BEAMS PARALLAMS ARE TO BE FULL WIDTH.

SECTION 8
 $\frac{3}{4}'' = 1'-0''$ S0.3



TYPICAL COIL STRAP @ BUILDING EXTERIOR

DETAIL 10
 $\frac{3}{4}'' = 1'-0''$ S0.3



SECTION 11
 $\frac{3}{4}'' = 1'-0''$ S0.3



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TIMBER RIDGE COTTAGES
 SECTION 8, TOWNSHIP 18, RANGE 15
 BROKEN ARROW, WAGONER COUNTY, OK

STARK WILSON DUNCAN ARCHITECTS, INC.
 315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112-1186 F 816.531.1978

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 ENGINEER - MICHAEL J. FALBE
 LICENSE NO. 20065



TYPICAL SECTIONS

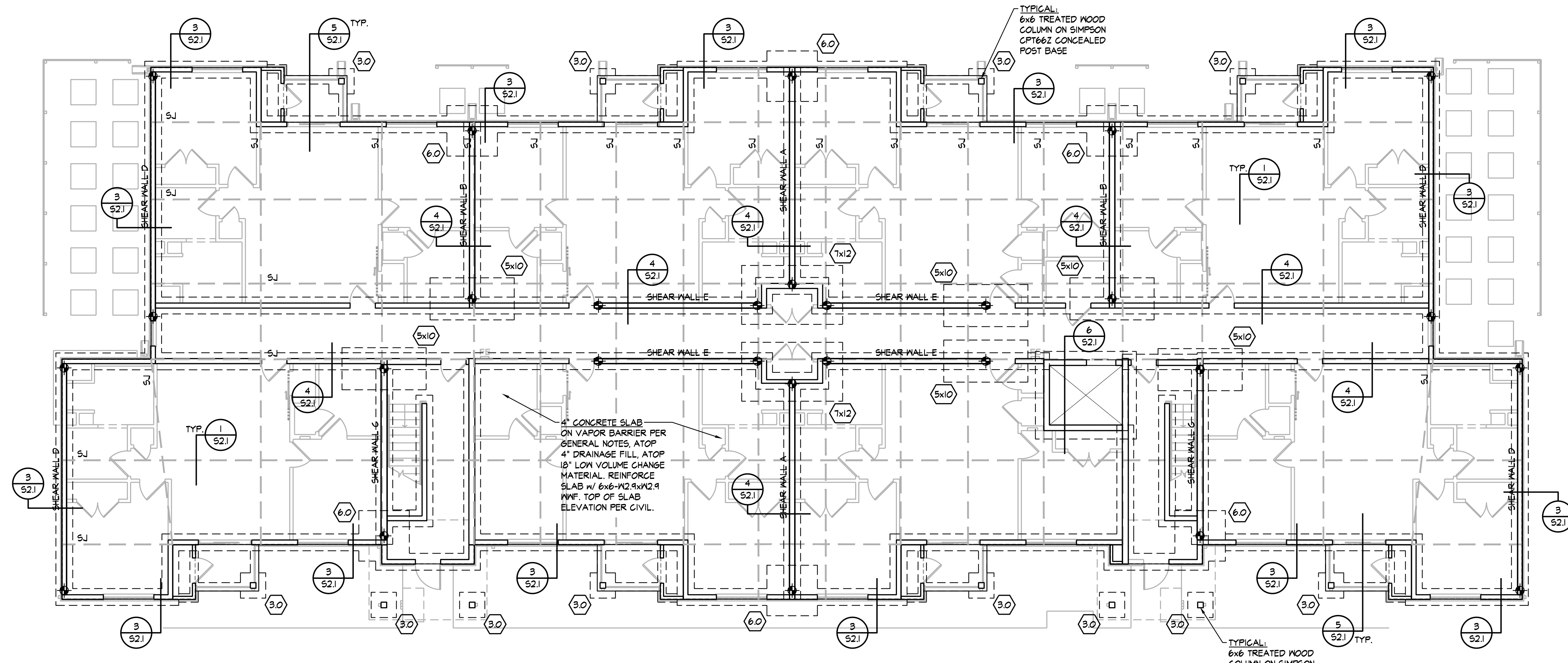
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FOUNDATION PLAN
 1/8" = 1'-0"

- NOTES:
 1. REFER TO GENERAL NOTES ON SHEET 50.1.
 2. VERIFY ALL DIMENSIONS & ELEVATIONS W/ ARCHITECTURAL DRAWINGS.
 3. (*) INDICATES SIMPSON HOLD-DOWN ANCHOR PER SECTION 3/50.1.



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APARTMENT
 BUILDING
 FOUNDATION PLAN

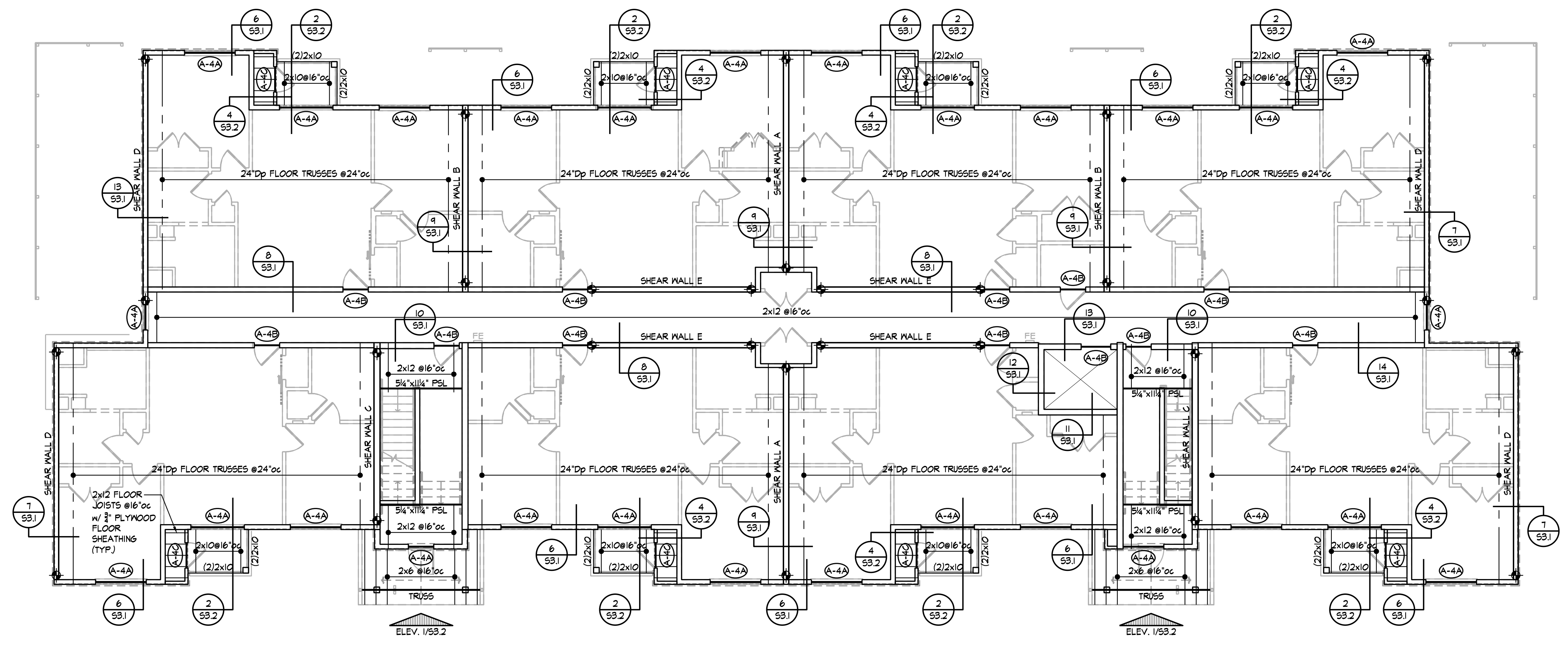
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2ND FLOOR FRAMING PLAN

- 1/8" = 1'-0"
- NOTES:
1. REFER TO GENERAL NOTES ON SHEET S01.
 2. VERIFY ALL DIMENSIONS & ELEVATIONS w/ ARCHITECTURAL DRAWINGS.
 3. THE TRUSS LAYOUT DEPICTED ON THE FRAMING PLAN IS SHOWN FOR SCHEMATIC PURPOSES. THE TRUSS SUPPLIER SHALL BE RESPONSIBLE FOR THE FINAL LAYOUT WHILE COMPLYING w/ THE STRUCTURAL DETAILS & UTILIZING THE LOAD BEARING ELEMENTS INDICATED ON THE DRAWINGS.
 4. UNLESS NOTED OTHERWISE, PROVIDE STUD PACKS AT ALL GIRDER TRUSS BEARING LOCATIONS. QUANTITY OF STUDS SHALL MATCH NUMBER OF PLYS IN GIRDER STUDS OR 3 STUDS MINIMUM (WHICHEVER IS GREATER).

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ENGINEER - MICHAEL J. FALBE
LICENSE NO. 20065



APARTMENT
BUILDING
2ND FLOOR
FRAMING PLAN

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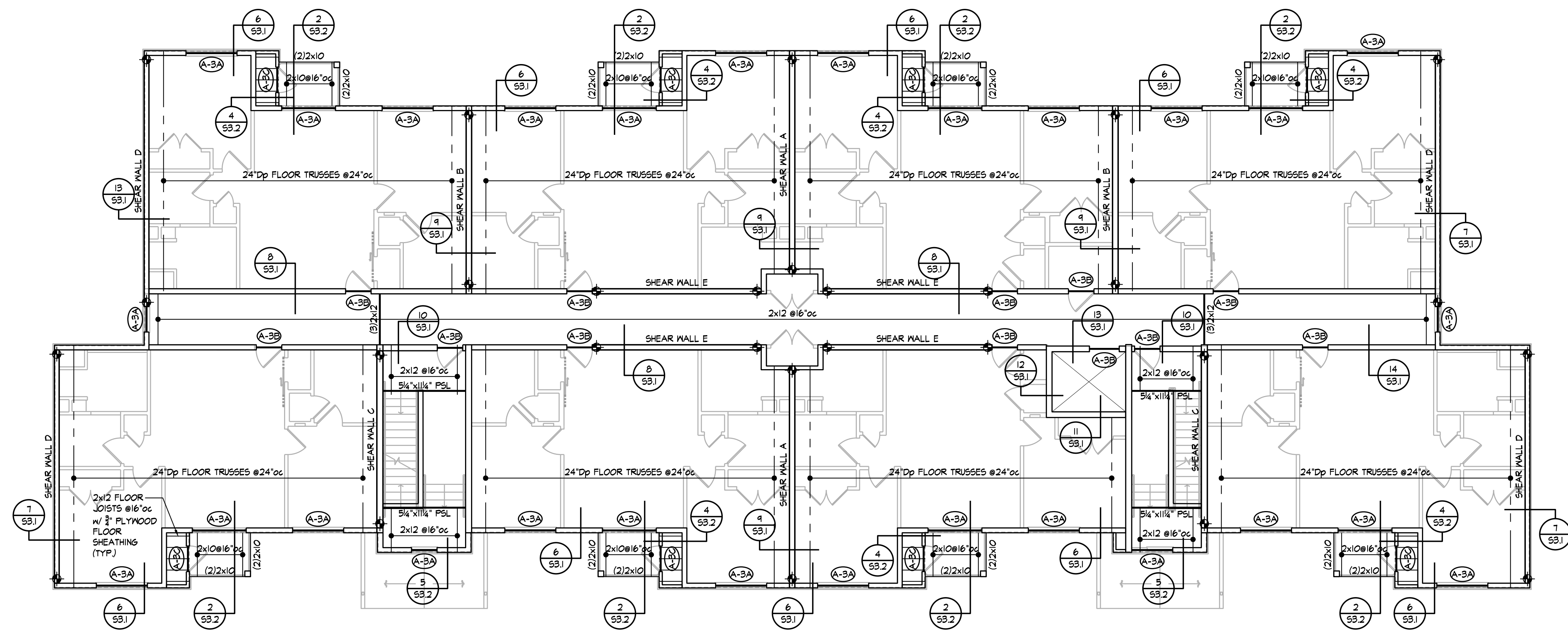
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TIMBER RIDGE COTTAGES

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3RD FLOOR FRAMING PLAN

1/8" = 1'-0"

- NOTES:
1. REFER TO GENERAL NOTES ON SHEET S01.
 2. VERIFY ALL DIMENSIONS & ELEVATIONS w/ ARCHITECTURAL DRAWINGS.
 3. THE TRUSS LAYOUT DEPICTED ON THE FRAMING PLAN IS SHOWN FOR SCHEMATIC PURPOSES. THE TRUSS SUPPLIER SHALL BE RESPONSIBLE FOR THE FINAL LAYOUT WHILE COMPLYING w/ THE STRUCTURAL DETAILS & UTILIZING THE LOAD BEARING ELEMENTS INDICATED ON THE DRAWINGS.
 4. UNLESS NOTED OTHERWISE, PROVIDE STUD PACKS AT ALL GIRDER TRUSS BEARING LOCATIONS. QUANTITY OF STUDS SHALL MATCH NUMBER OF PLYS IN GIRDER STUDS OR 3 STUDS MINIMUM (WHICHEVER IS GREATER).

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LICENSE NO. 20065

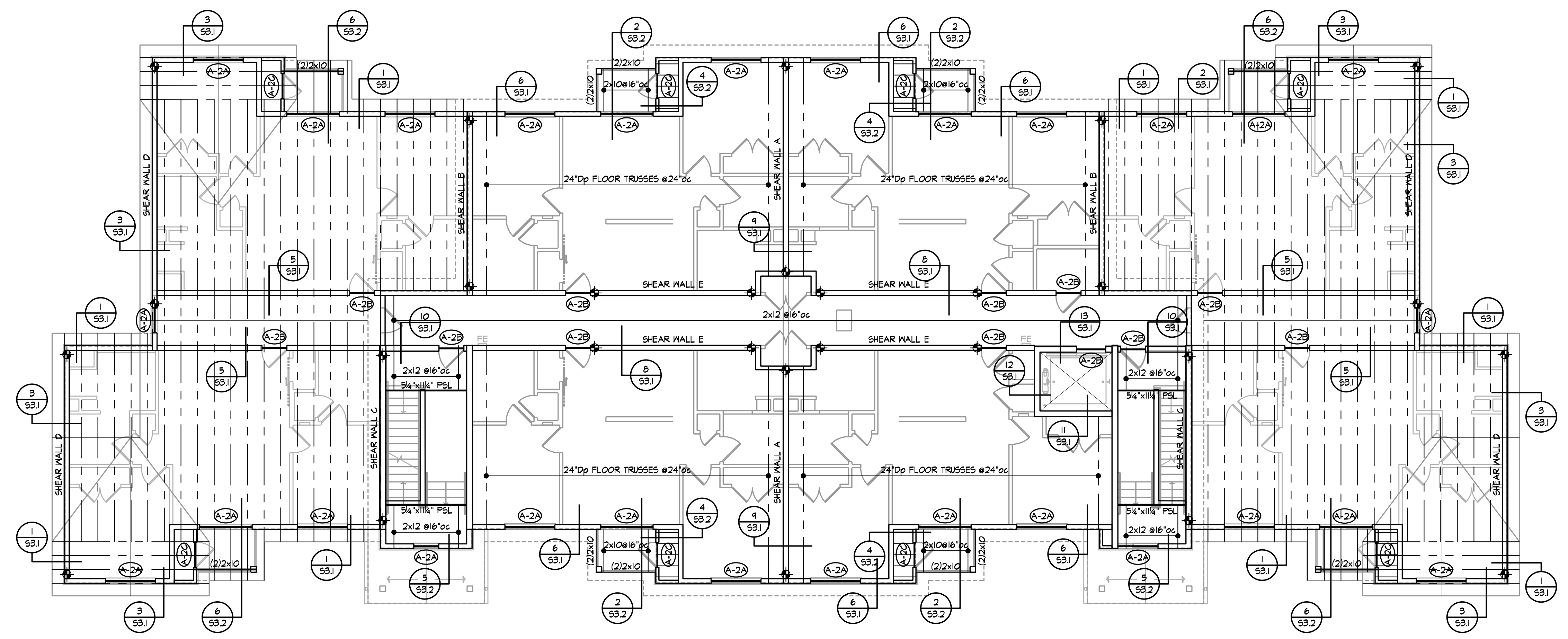


APARTMENT
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3RD FLOOR
FRAMING PLAN

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AS1.3



4TH FLOOR FRAMING PLAN

1/8" = 1'-0"

- NOTES:
1. REFER TO GENERAL NOTES ON SHEET S01.
 2. VERIFY ALL DIMENSIONS & ELEVATIONS w/ ARCHITECTURAL DRAWINGS.
 3. THE TRUSS LAYOUT DEPICTED ON THE FRAMING PLAN IS SHOWN FOR SCHEMATIC PURPOSES. THE TRUSS SUPPLIER SHALL BE RESPONSIBLE FOR THE FINAL LAYOUT WHILE COMPLYING w/ THE STRUCTURAL DETAILS & UTILIZING THE LOAD BEARING ELEMENTS INDICATED ON THE DRAWINGS.
 4. UNLESS NOTED OTHERWISE, PROVIDE STUD PACKS AT ALL GIRDER TRUSS BEARING LOCATIONS. QUANTITY OF STUDS SHALL MATCH NUMBER OF PLYS IN GIRDER STUDS OR 3 STUDS MINIMUM (WHICHEVER IS GREATER).

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Oct 18, 2019 7:29am

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ENGINEER - MICHAEL J. FALBE
LICENSE NO. 20065



APARTMENT
BUILDING
4TH FLOOR
FRAMING PLAN

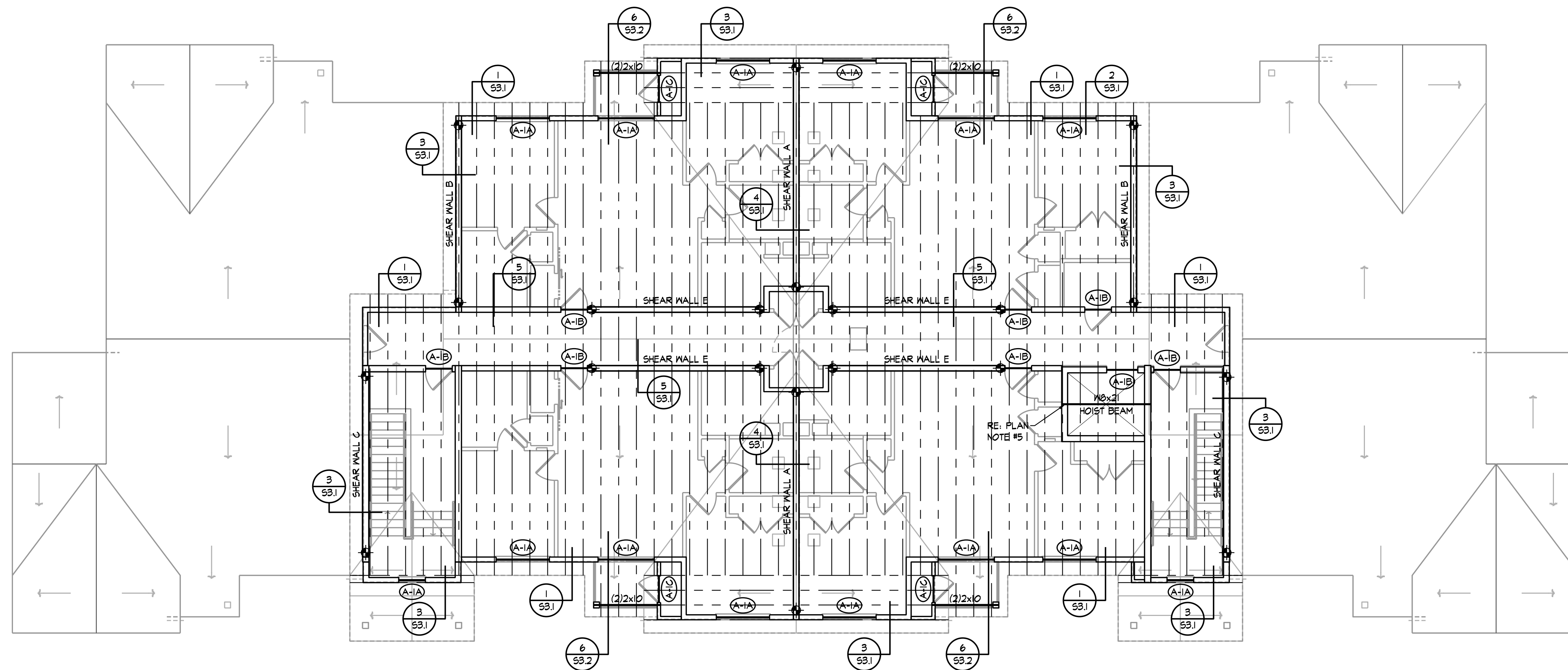
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PROJECT NO.: 1902

AS1.4

TIMBER RIDGE COTTAGES
SECTION 8, TOWNSHIP 18, RANGE 15
BROKEN ARROW, WAGONER COUNTY, OK

STARK WILSON DUNCAN ARCHITECTS INC.
3115 NICHOLS RD, STE 228 • KANSAS CITY, MO 64112 • T 816.531.1698 F 816.531.1978



ROOF FRAMING PLAN

1/8" = 1'-0"

- NOTES:
1. REFER TO GENERAL NOTES ON SHEET SO.1.
 2. VERIFY ALL DIMENSIONS & ELEVATIONS w/ ARCHITECTURAL DRAWINGS.
 3. THE TRUSS LAYOUT DEPICTED ON THE FRAMING PLAN IS SHOWN FOR SCHEMATIC PURPOSES. THE TRUSS SUPPLIER SHALL BE RESPONSIBLE FOR THE FINAL LAYOUT WHILE COMPLYING w/ THE STRUCTURAL DETAILS & UTILIZING THE LOAD BEARING ELEMENTS INDICATED ON THE DRAWINGS.
 4. UNLESS NOTED OTHERWISE, PROVIDE STUD PACKS AT ALL GIRDER TRUSS BEARING LOCATIONS. QUANTITY OF STUDS SHALL MATCH NUMBER OF PLYS IN GIRDER STUDS OR 3 STUDS MINIMUM (WHICHEVER IS GREATER).
 5. SUPPORT ELEVATOR HOIST BEAM w/ (6) 2x6 BEARING STUDS BELOW EACH END OF THE HOIST BEAM. THESE STUDS SHALL BE PROVIDED AT ALL LEVELS OF THE BUILDING TO TRANSFER THE LOAD DOWN TO THE FOUNDATION. PROVIDE MATCHING SQUASH BLOCK STUDS AT THE FLOOR LEVELS TO TRANSFER THE LOAD. ALSO, PROVIDE (6) 2x6 STUD PACKS AT ALL LOCATIONS WHERE ELEVATOR RAIL FORCES MUST BE RESISTED. COORDINATE LOCATIONS w/ THE ELEVATOR CONTRACTOR.

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LICENSE NO. 20065



APARTMENT
BUILDING
ROOF FRAMING
PLAN

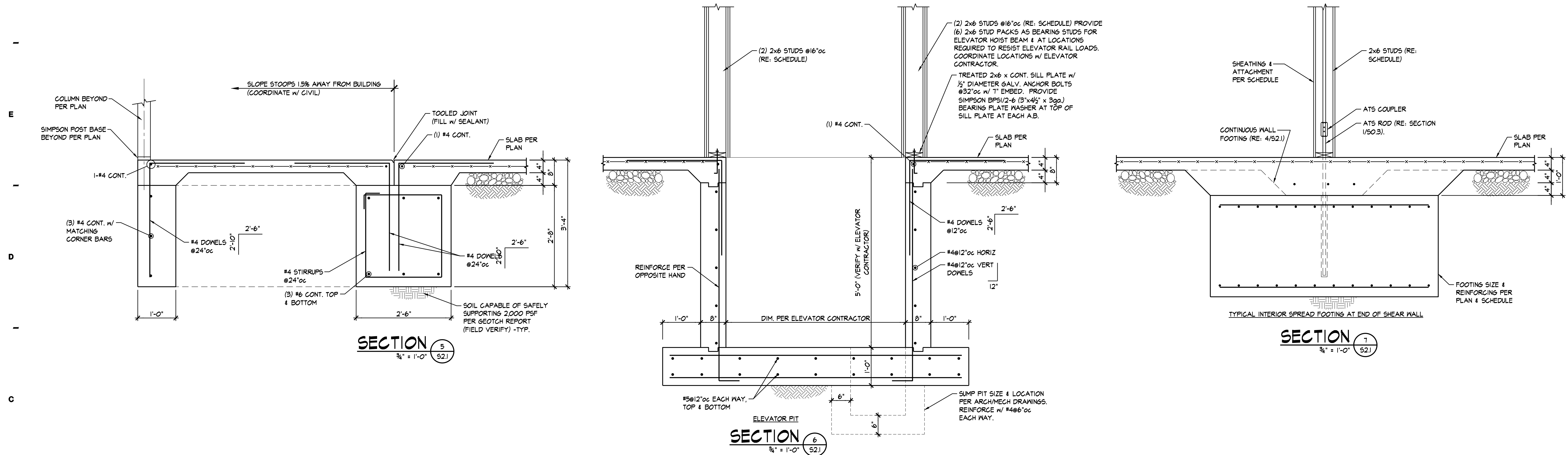
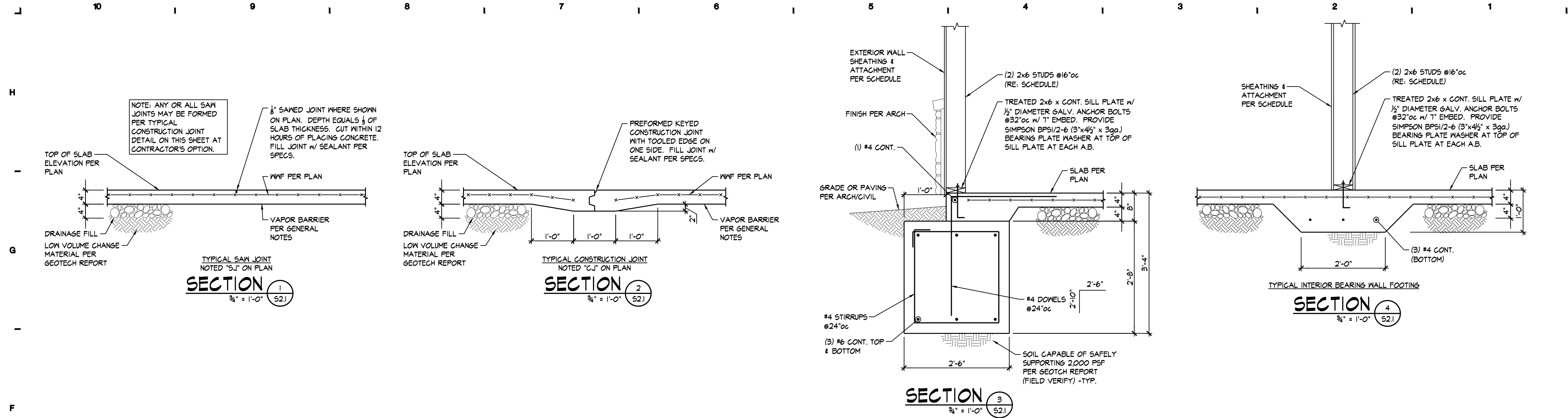
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TIMBER RIDGE COTTAGES
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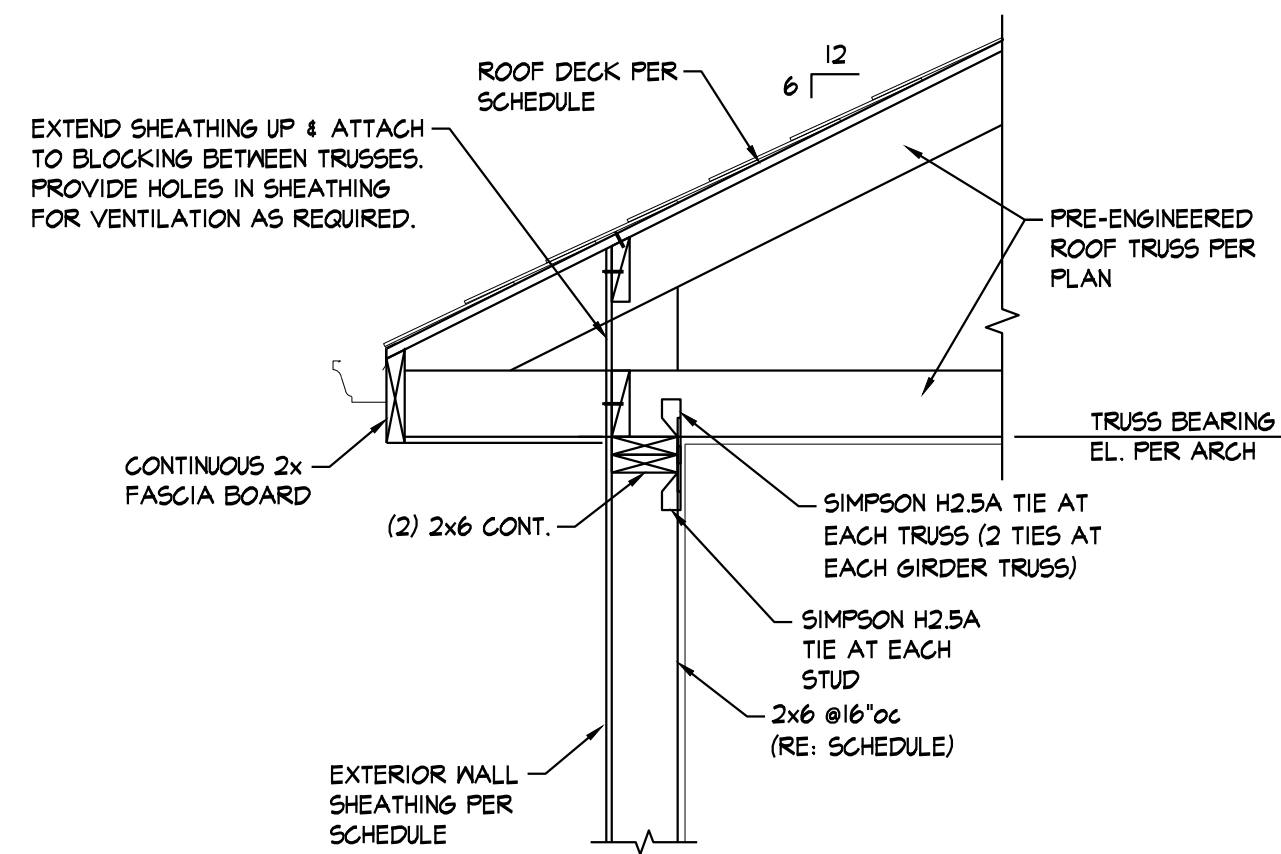
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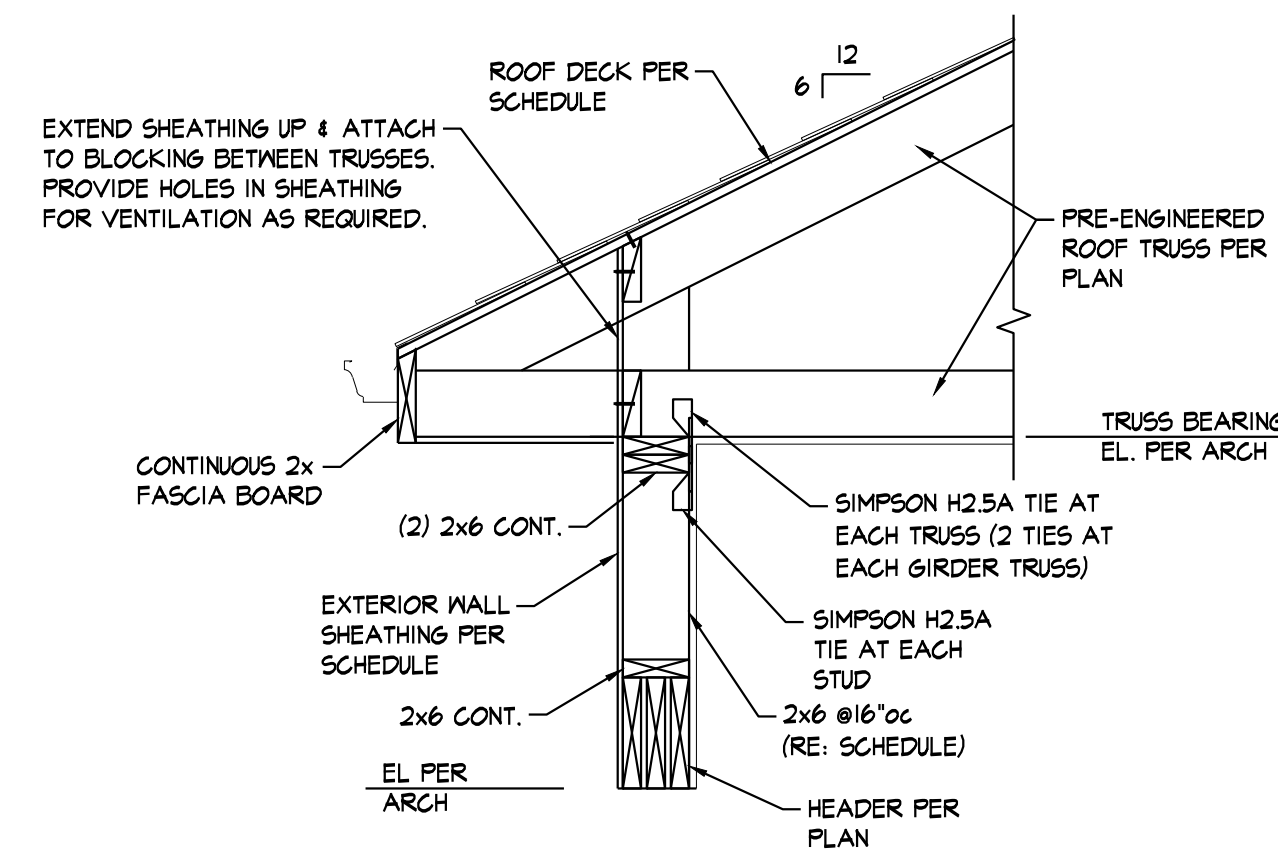
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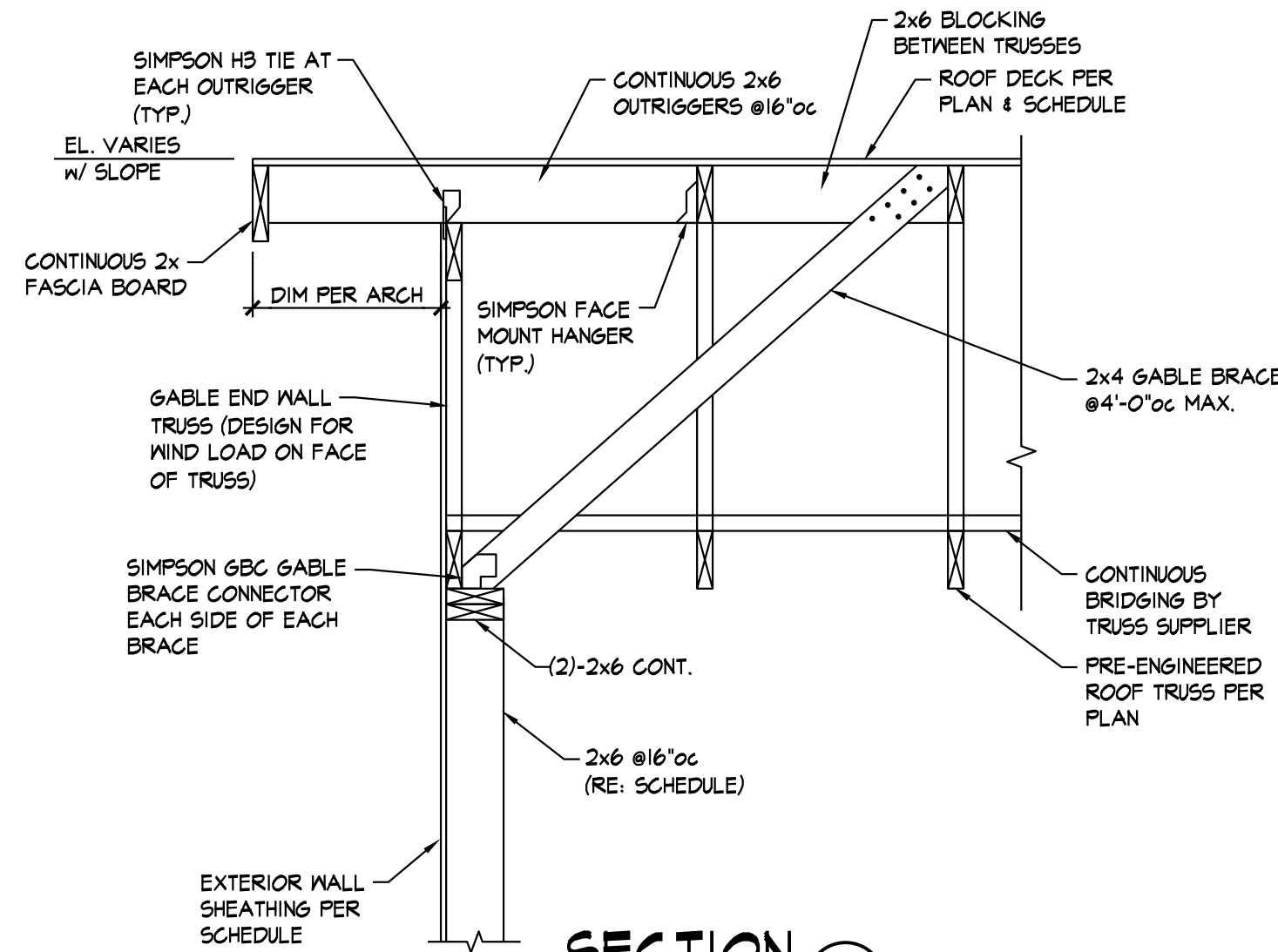
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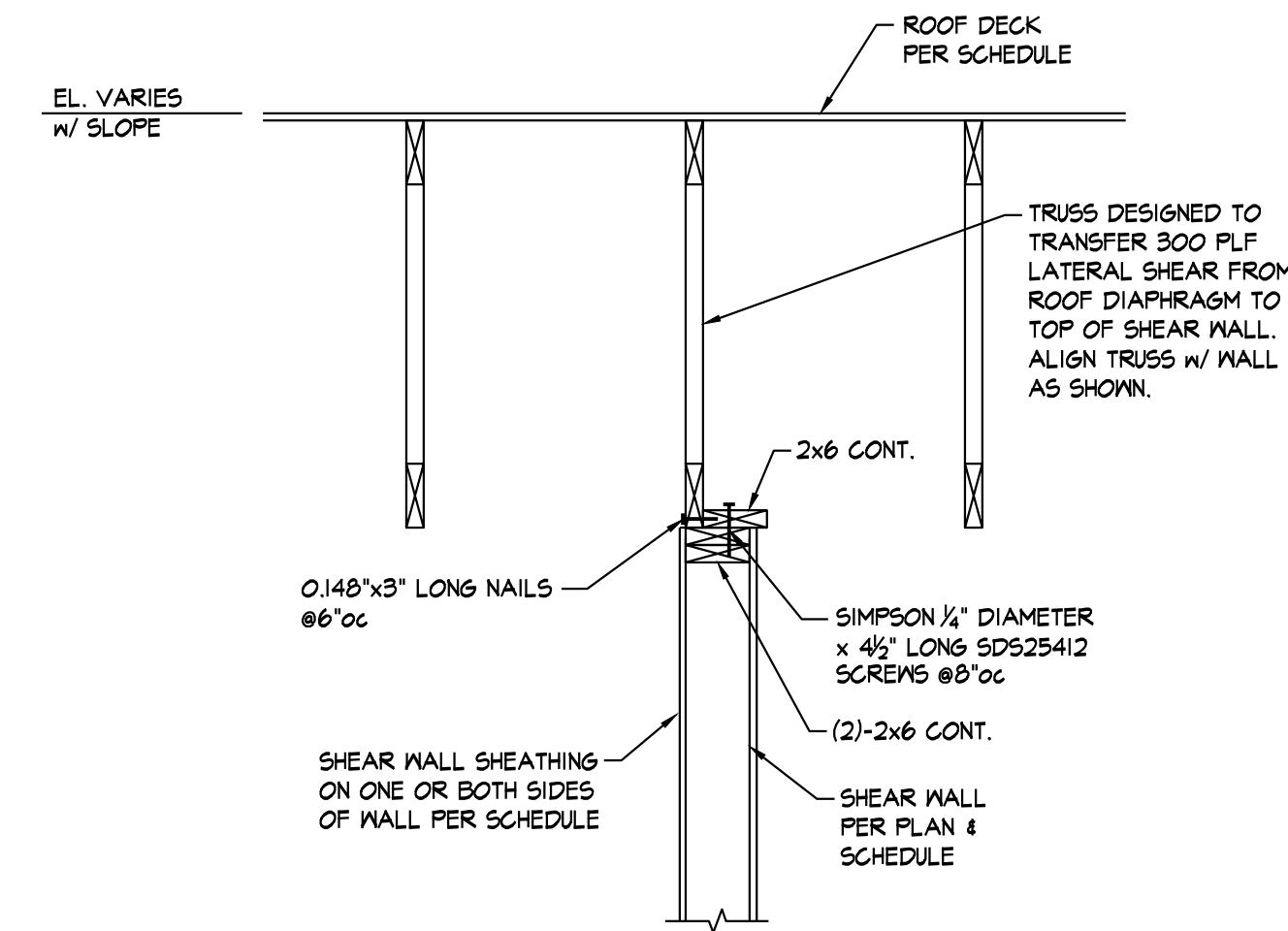
SECTION 1
 $\frac{3}{4}'' = 1'-0''$ (S3.1)



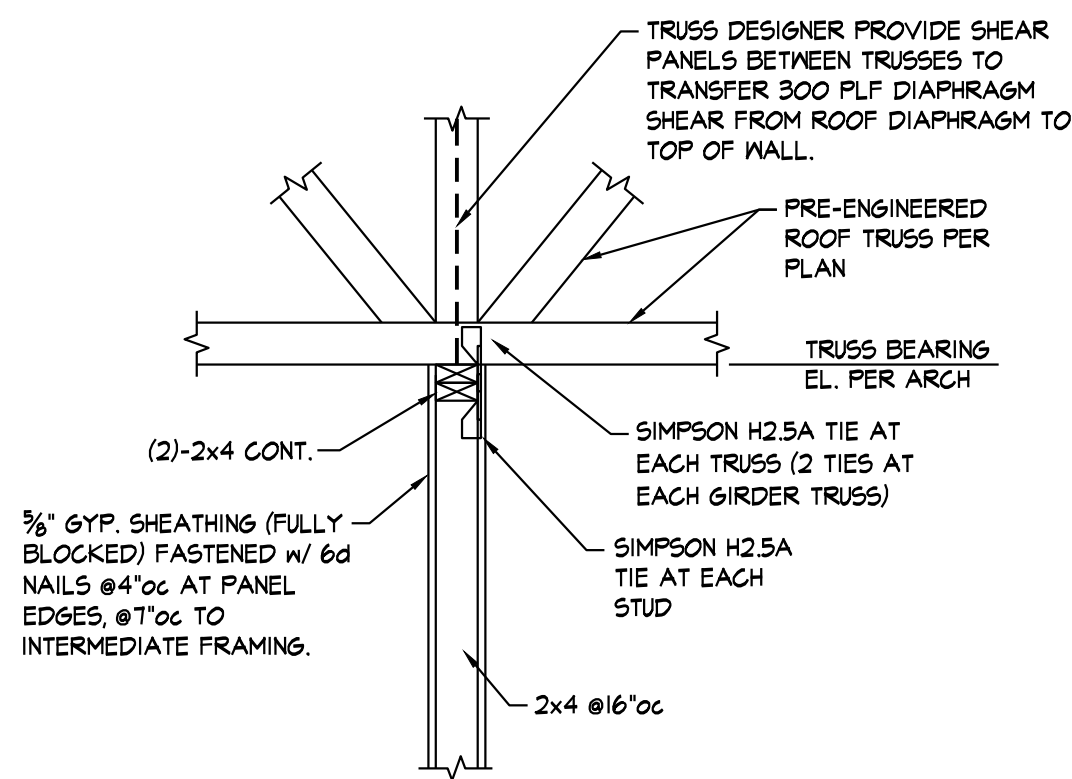
SECTION 2
 $\frac{3}{4}'' = 1'-0''$ (S3.1)



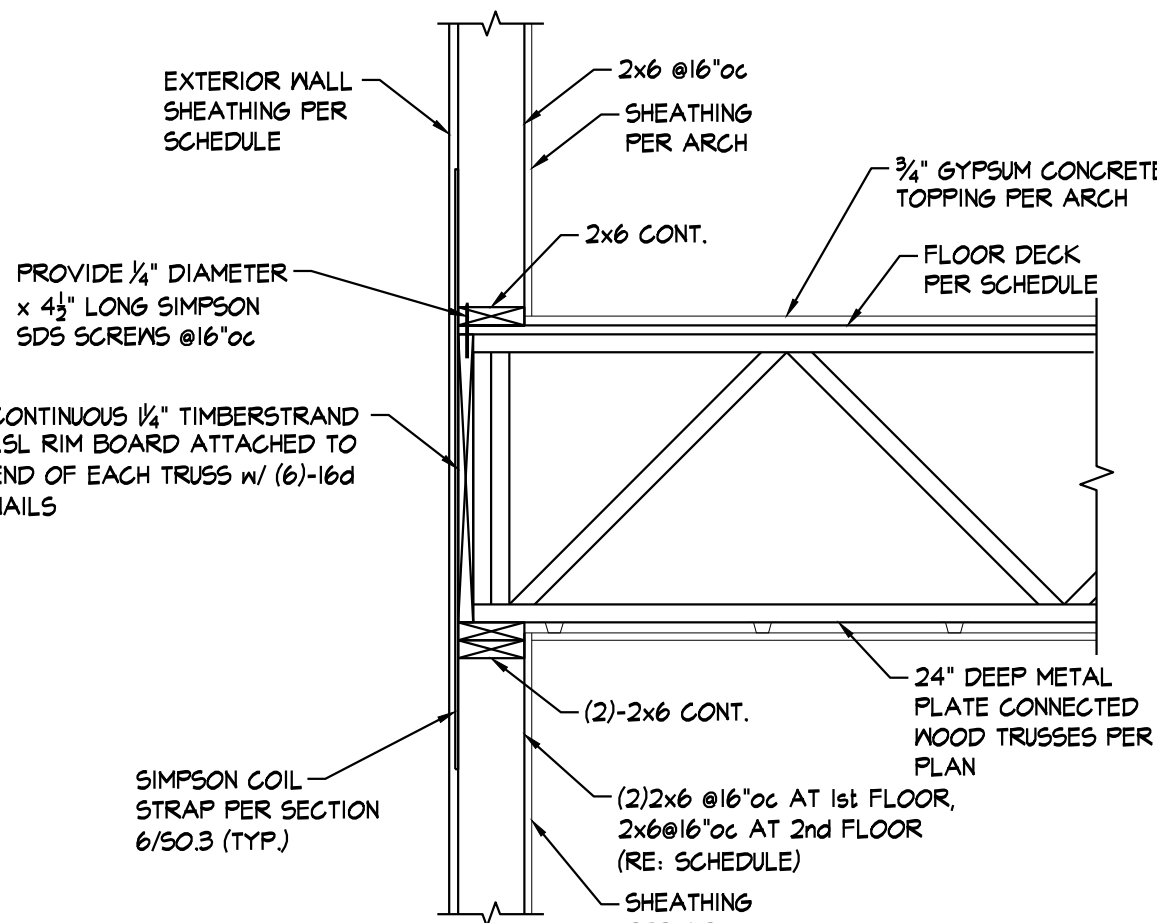
SECTION 3
 $\frac{3}{4}'' = 1'-0''$ (S3.1)



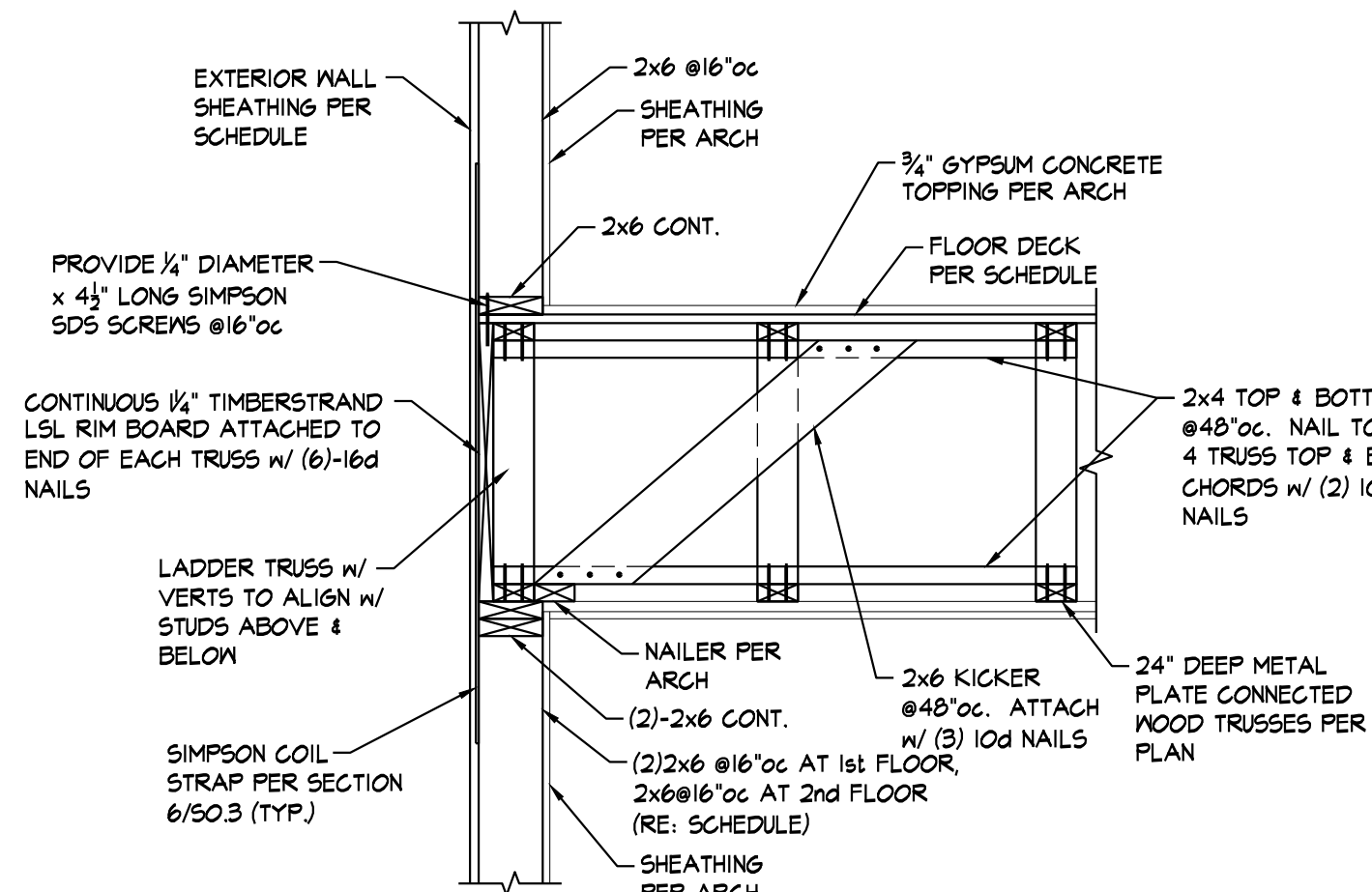
SECTION 4
 $\frac{3}{4}'' = 1'-0''$ (S3.1)



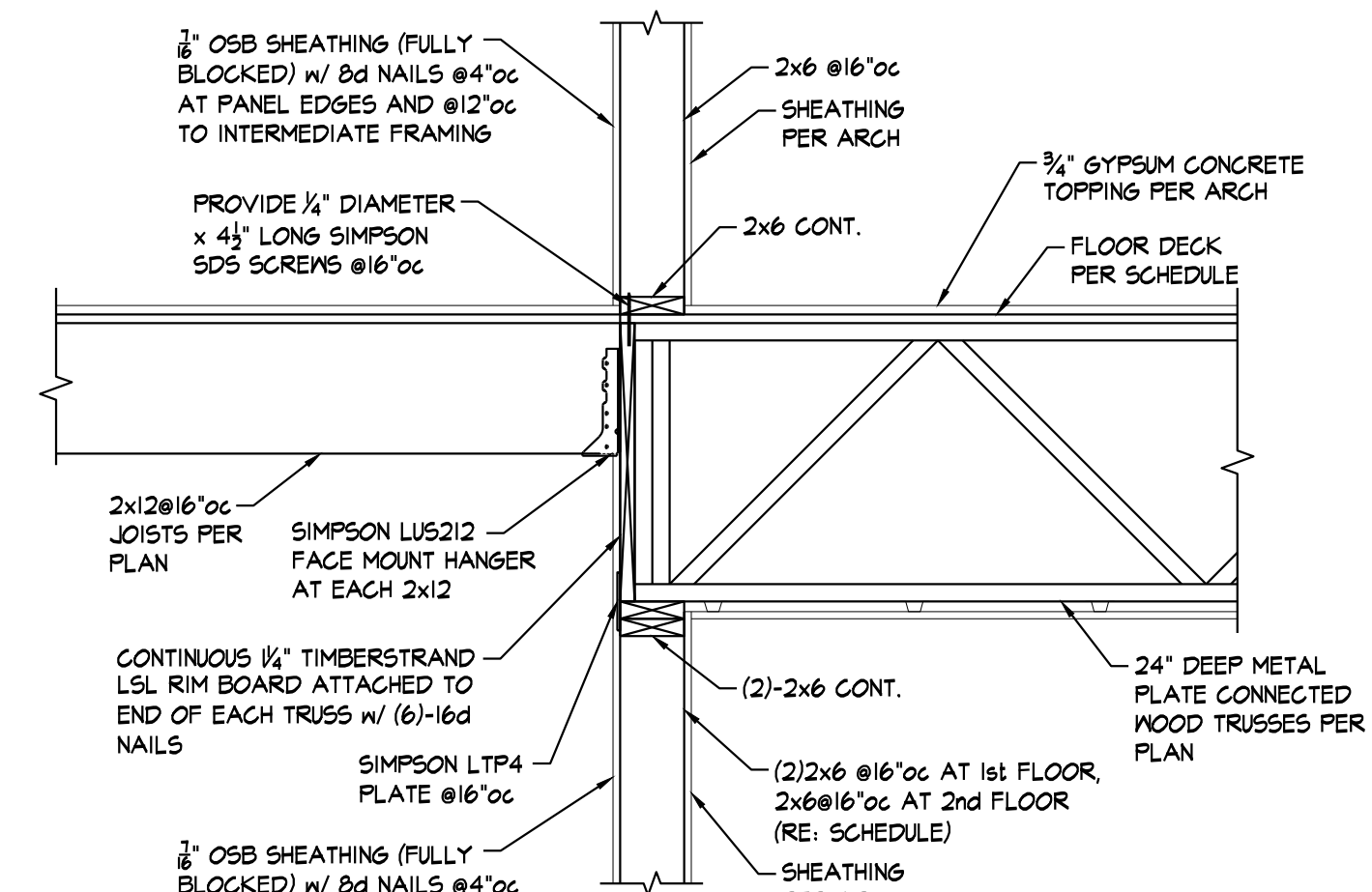
SECTION 5
 $\frac{3}{4}'' = 1'-0''$ (S3.1)



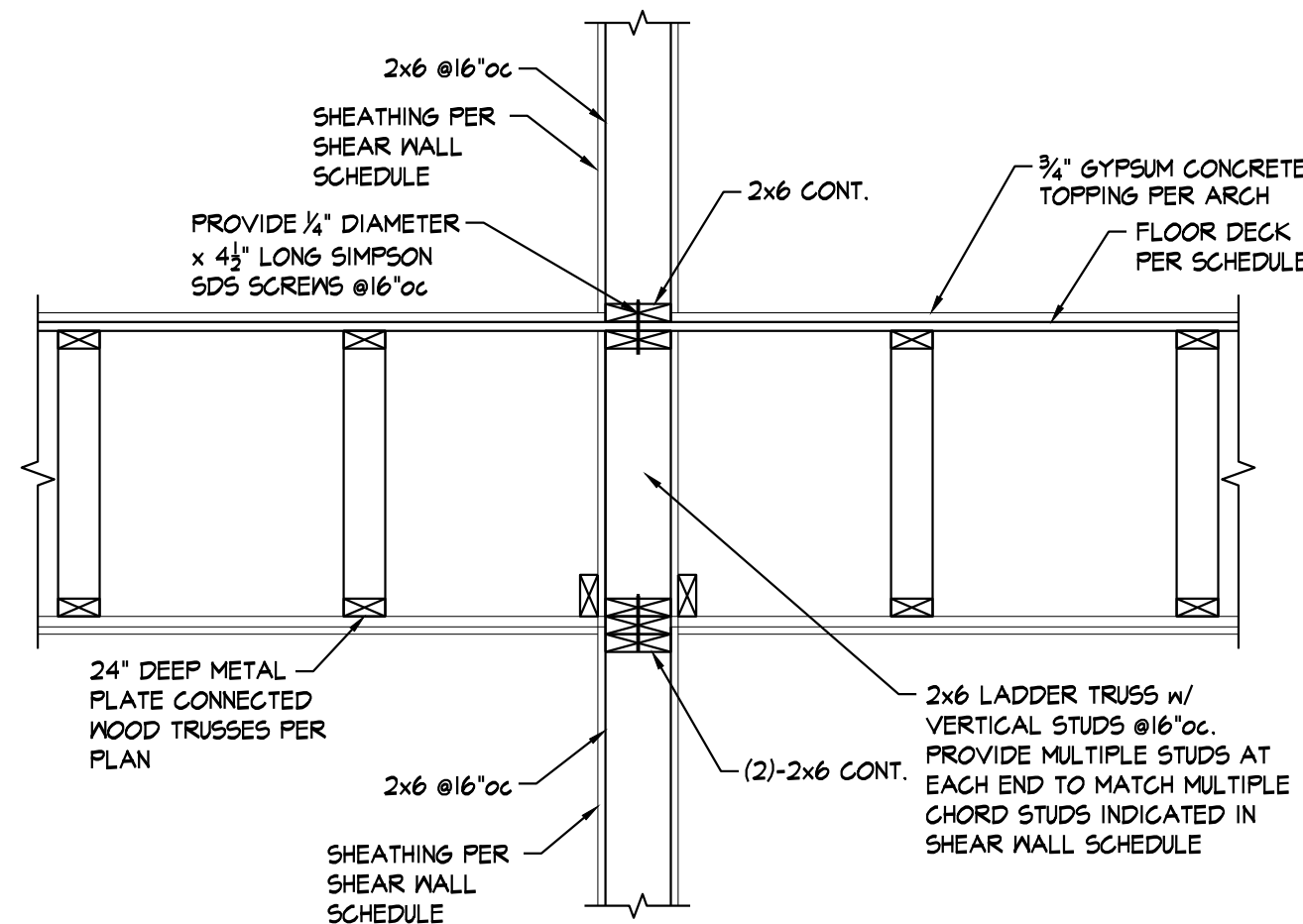
SECTION 6
 $\frac{3}{4}'' = 1'-0''$ (S3.1)



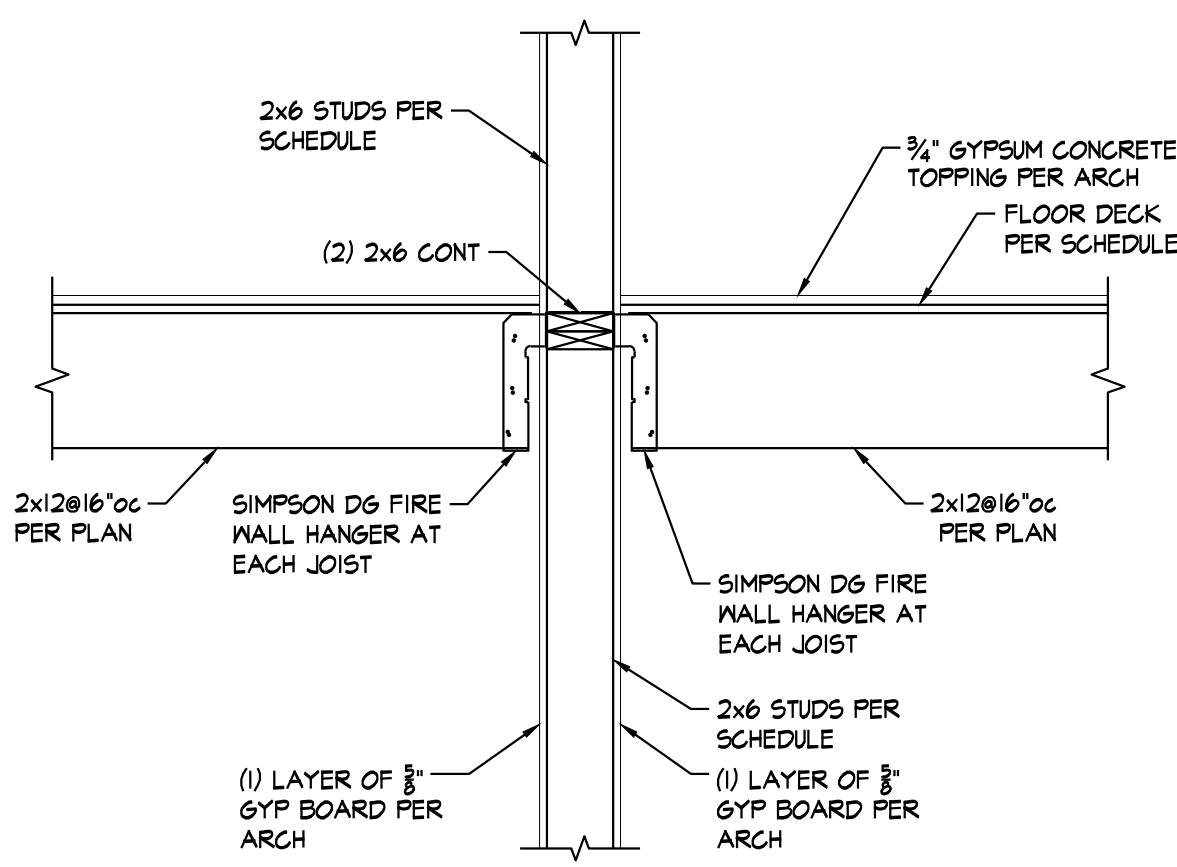
SECTION 7
 $\frac{3}{4}'' = 1'-0''$ (S3.1)



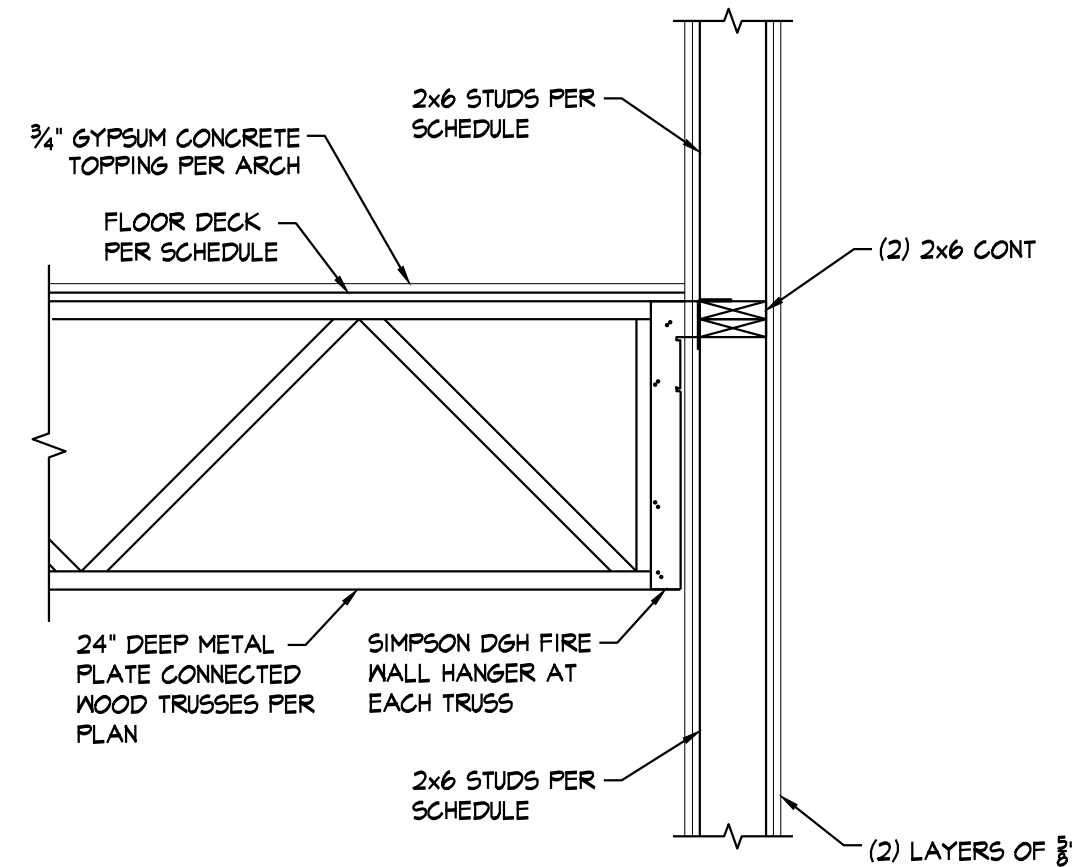
SECTION 8
 $\frac{3}{4}'' = 1'-0''$ (S3.1)



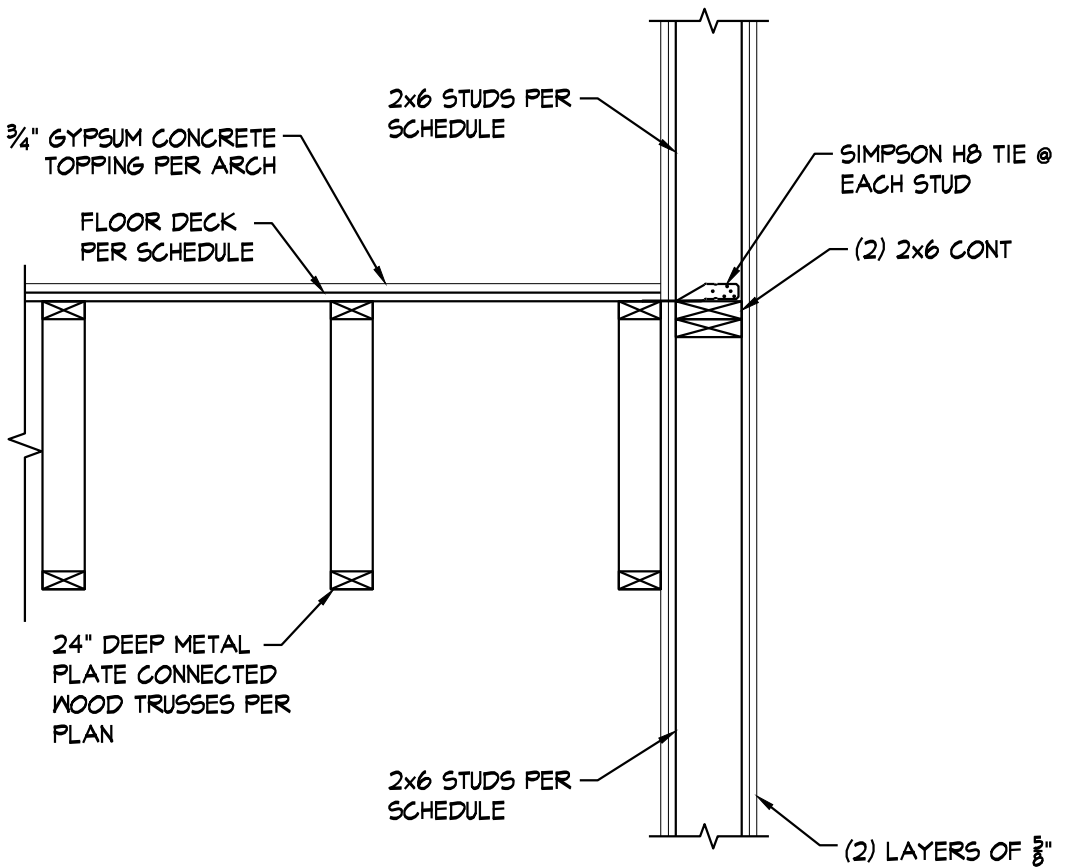
SECTION 9
 $\frac{3}{4}'' = 1'-0''$ (S3.1)



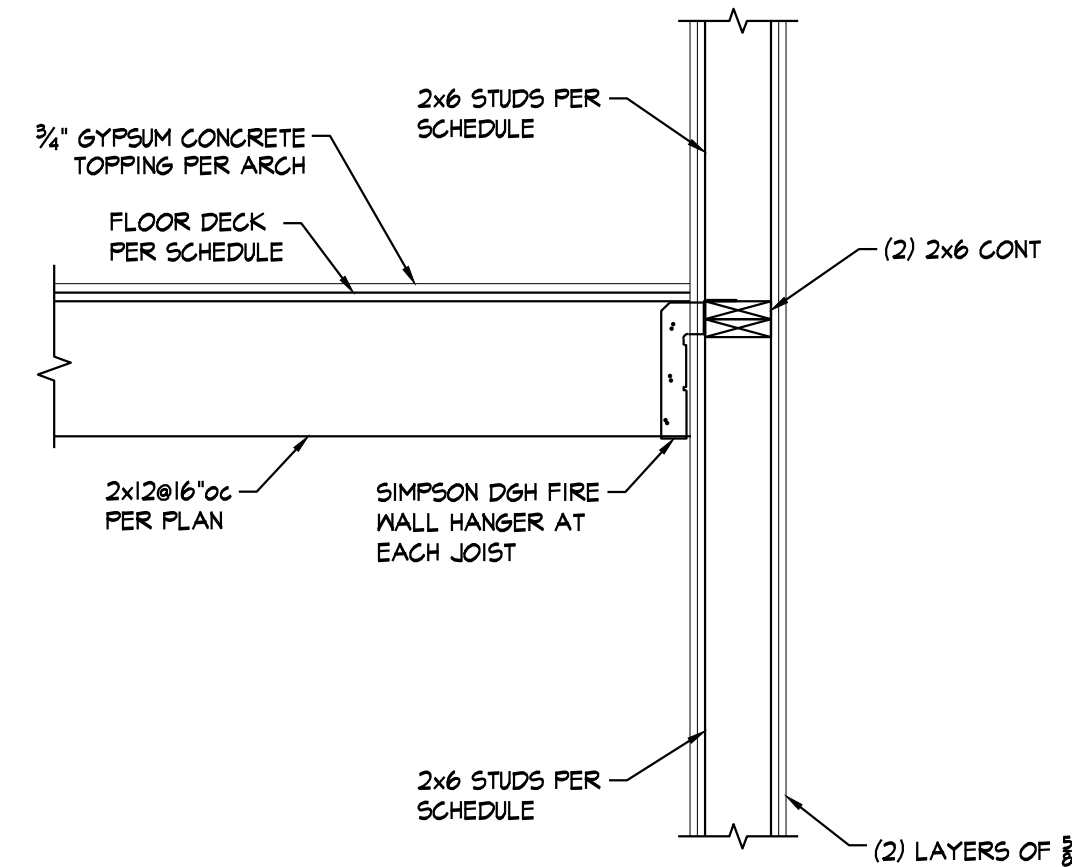
SECTION 10
 $\frac{3}{4}'' = 1'-0''$ (S3.1)



SECTION 11
 $\frac{3}{4}'' = 1'-0''$ (S3.1)



SECTION 12
 $\frac{3}{4}'' = 1'-0''$ (S3.1)



SECTION 13
 $\frac{3}{4}'' = 1'-0''$ (S3.1)

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EST 1935

ARCHITECTURAL CORPORATION
 OKLAHOMA CERTIFICATE
 OF AUTHORITY NO. CA 02479

TIMBER RIDGE COTTAGES

SECTION 8, TOWNSHIP 18, RANGE 15
 BROKEN ARROW, WAGONER COUNTY, OK

STARK WILSON DUNCAN ARCHITECTS INC.
 315 NICHOLS RD., STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

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 ENGINEER - MICHAEL J. FALBE
 LICENSE NO. 20065



SECTIONS

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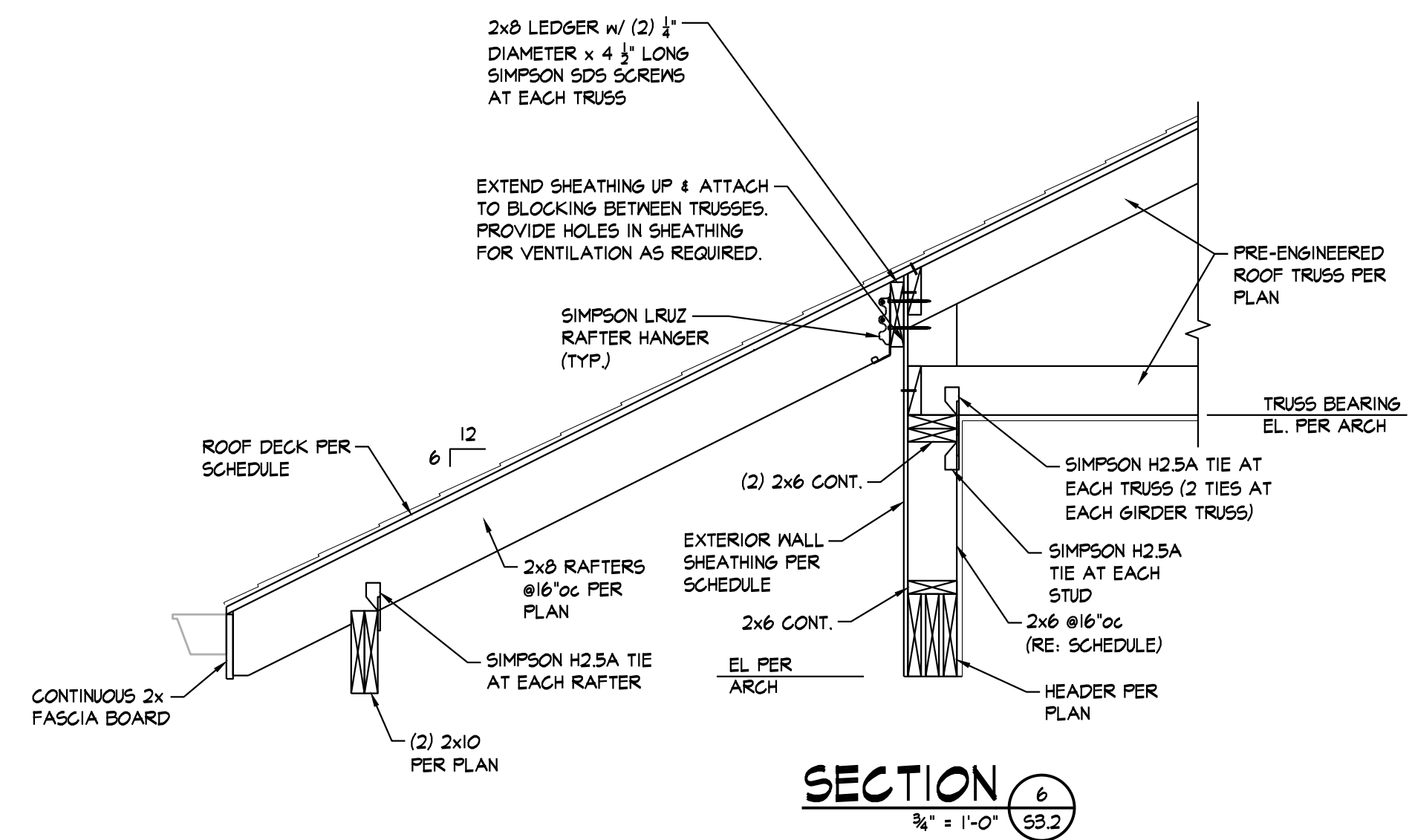
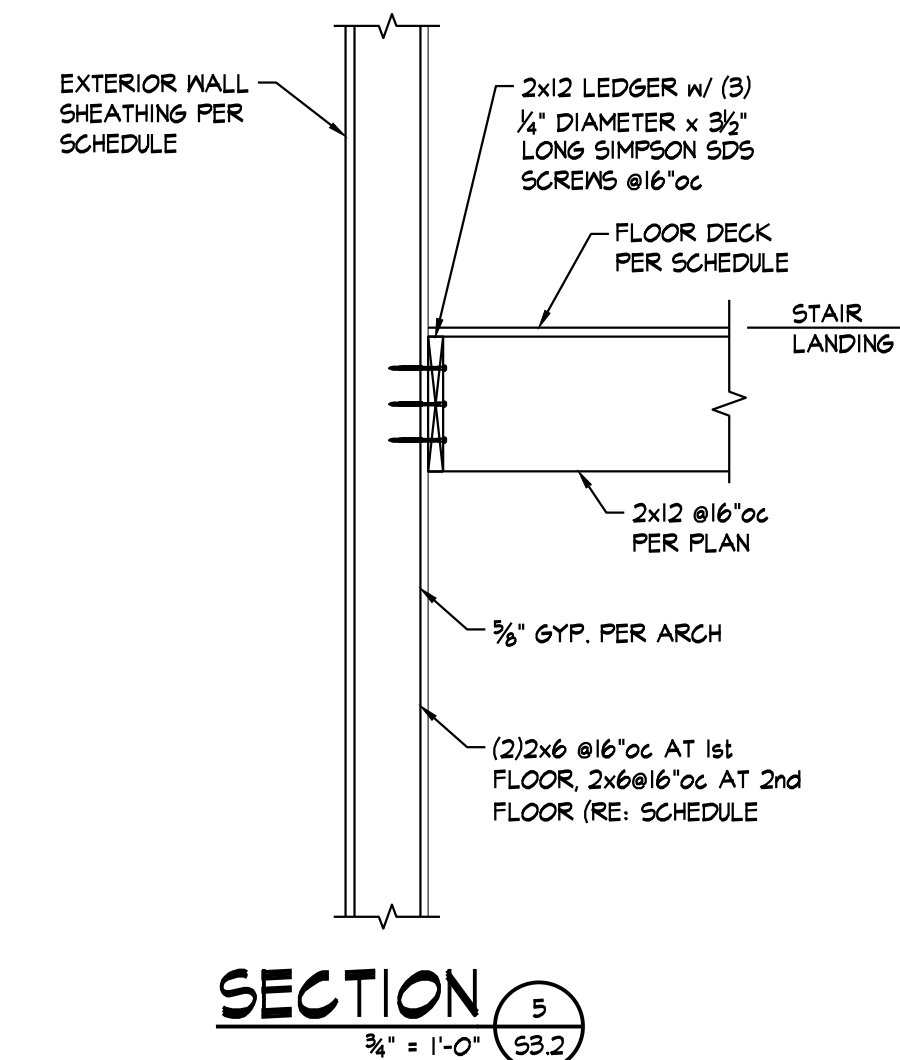
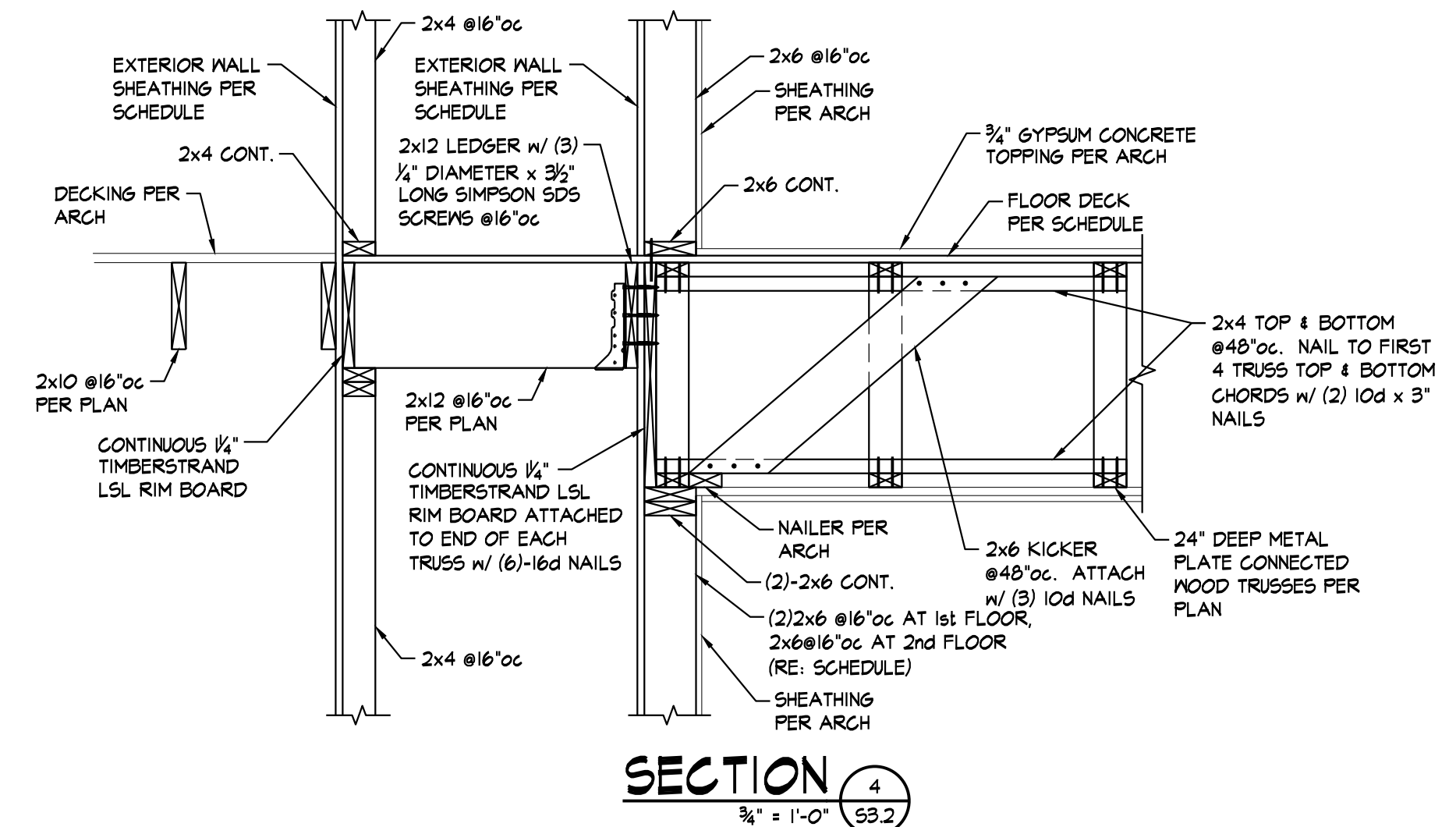
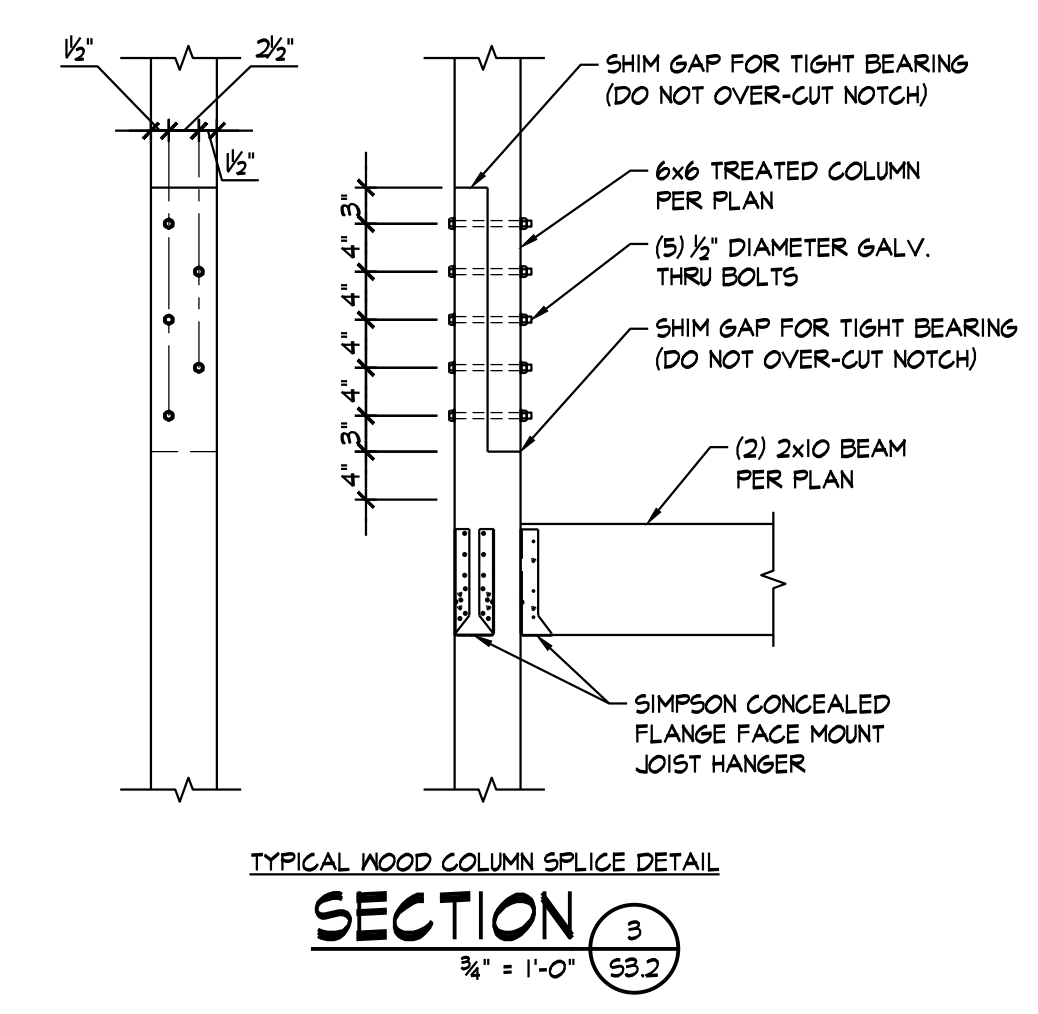
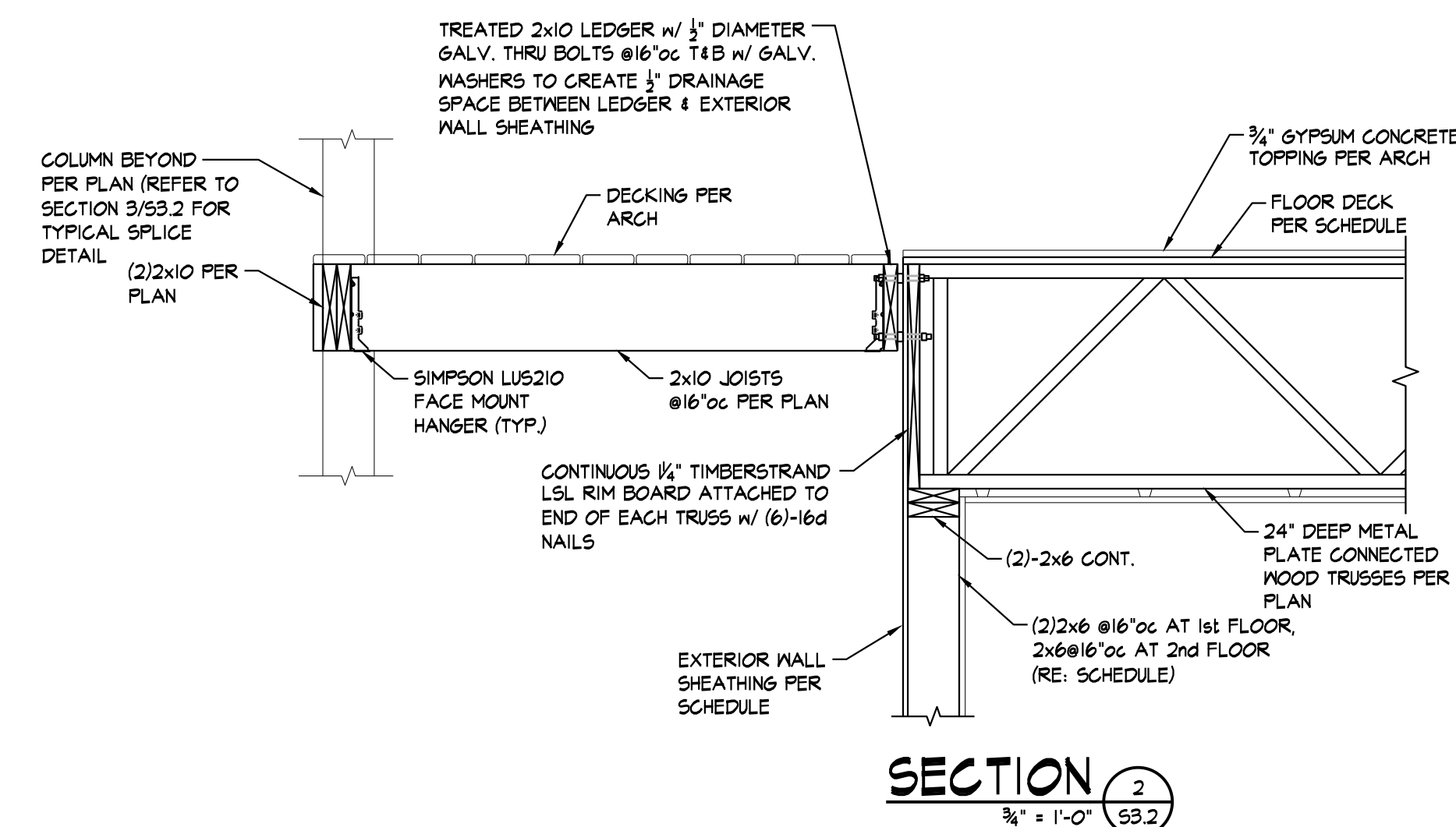
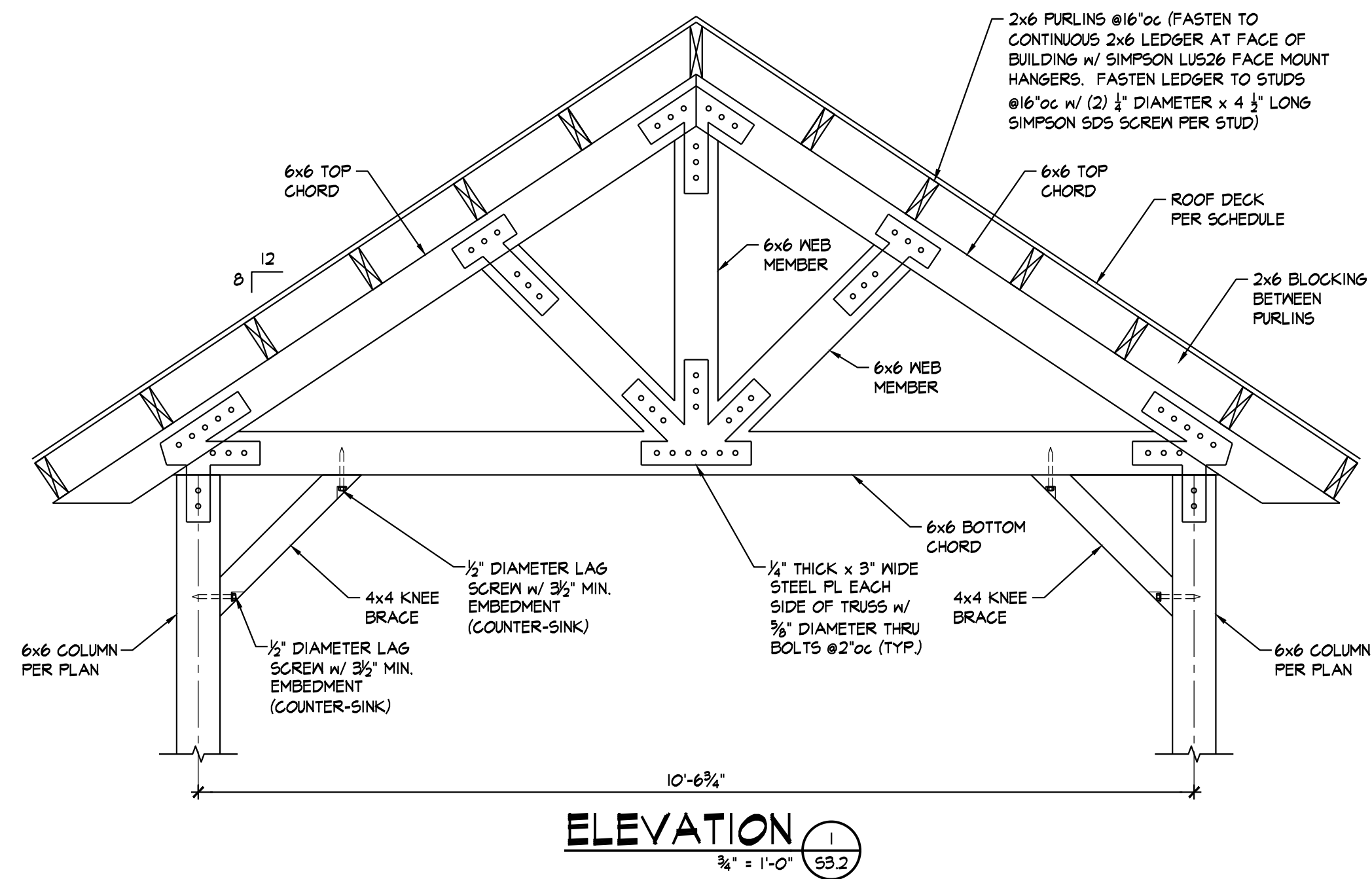
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SYMBOLS

PIPING	
	DIRECTION OF FLOW
	UNION
	FLANGE CONNECTION
	CAP
	ELBOW UP
	ELBOW DOWN
	TEE UP
	TEE DOWN
	PIPE REDUCER
	PIPE GUIDE
	PIPE ANCHOR
	EXPANSION JOINT
	SHUT-OFF VALVE
	CHECK VALVE
	BALANCING VALVE WITH PRESSURE PORTS
	TRIPLE DUTY VALVE
	STRAINER
	STRAINER WITH BLOWOFF
	RELIEF/SAFETY VALVE
	MANUAL AIR VENT
	SOLENOID VALVE
	THREE-WAY CONTROL VALVE
	TWO-WAY CONTROL VALVE
	PRESSURE REDUCING VALVE
	PRESSURE GAUGE
	THERMOMETER
	GAS REGULATOR
	BACKFLOW PREVENTER
	AIR OUTLET
	OXYGEN OUTLET
	VACUUM OUTLET
	NITROGEN OUTLET
	NITROUS OXIDE OUTLET
	FLOOR SINK
	FLOOR DRAIN
	ROOF DRAIN
	HOSE BIBB
	FLOOR/GRADE CLEANOUT
	WALL CLEANOUT
	END OF LINE CLEANOUT

PLUMBING	
	WASTE LINE-ABOVE GRADE
	GREASE WASTE LINE-ABOVE GRADE
	WASTE LINE-BELOW GRADE
	VENT LINE
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC TEMPERED HOT WATER
	DOMESTIC HOT WATER RECIRC.
	VENT THROUGH ROOF NOTE

FIRE PROTECTION	
	SPRINKLER HEAD (PENDANT)
	SPRINKLER HEAD (SIDEWALL)
	SPRINKLER HEAD (UPRIGHT)
	FIRE PROTECTION PIPING
	SIAMESE CONNECTION

DUCTWORK	
	EQUIPMENT TYPE AND NUMBER
	PUMP
	LINEAR SLOT DIFFUSER
	FLEXIBLE DUCT
	NEGATIVE PRESSURE AIR DUCT UP
	NEGATIVE PRESSURE AIR DUCT DOWN
	POSITIVE PRESSURE AIR DUCT UP
	POSITIVE PRESSURE AIR DUCT DOWN
	DUCT RISE OR DROP IN THE DIRECTION OF AIRFLOW
	SQUARE TO ROUND TRANSITION
	ROUND DUCT UP, DOWN
	ELBOW WITH TURNING VANES
	FLEXIBLE CONNECTION
	MANUAL BALANCE DAMPER
	MOTORIZED CONTROL DAMPER
	FIRE DAMPER
	SMOKE DAMPER
	FIRE/SMOKE DAMPER
	SPIN-IN BRANCH DUCT CONNECTOR-WITH DAMPER IF SHOWN
	HIGH EFFICIENCY BRANCH DUCT CONNECTOR-WITH DAMPER IF SHOWN
	SUPPLY AIR DIFFUSER
	DUCT MOUNTED GRILLE/WALL GRILLE
	RETURN GRILLE
	NOISE REDUCING RETURN AIR TRANSFER SUPPLY DIFFUSER - THREE-WAY THROW
	DIFFUSER, GRILLE, OR REGISTER TYPE
	CFM
	CONNECTION SIZE

TEMPERATURE CONTROLS	
	TEMPERATURE SENSOR/THERMOSTAT
	HUMIDITY SENSOR/HUMIDISTAT
	REMOTE TEMPERATURE SENSOR
	REMOTE HUMIDITY SENSOR
	CARBON DIOXIDE SENSOR
	OCCUPANCY SENSOR
	CARBON MONOXIDE SENSOR
	STATIC PRESSURE SENSOR
	DIFFERENTIAL PRESSURE TRANSMITTER
	FLOW METER

LIGHTING	
	LIGHT TRACK WITH LIGHT TYPES AS INDICATED
	WALL WASHER LIGHTING FIXTURE, ARROW INDICATES DIRECTION
	FLUORESCENT FIXTURE AND TYPE
	EMERGENCY LIGHT FIXTURE
	NIGHT LIGHT FIXTURE
	LIGHT FIXTURE AND TYPE
	EMERGENCY LIGHT FIXTURE
	WALL MOUNTED FIXTURE
	WALL SCONCE
	POLE MOUNTED LIGHT (NUMBER OF HEADS AS SHOWN)
	IN-GROUND LIGHT FIXTURE
	BOLLARD LIGHT FIXTURE
	EXIT LIGHT C.L.G. MNTD. (S.G.L. FACE)
	EXIT LIGHT C.L.G. MNTD. (DBL. FACE)
	EXIT LIGHT WALL MNTD. (S.G.L. FACE)
	EXIT/EMERGENCY LIGHT
	EMERGENCY LIGHT
	CEILING FAN

POWER EQUIPMENT	
	ELECTRICAL DISTRIBUTION PANEL, SWITCHBOARD, OR MOTOR CONTROL
	PANEL BOARD
	LOAD CENTER
	METER
	J-BOX
	MOTOR
	DISCONNECT SWITCH
	COMBINATION DISCONNECT SWITCH AND MOTOR STARTER
	MAGNETIC MOTOR STARTER, NEMA SIZE AS NOTED
	BELL
	HOME RUN
	CONCEALED CONDUIT
	CONDUIT BELOW SLAB
	ONE HOT, ONE NEUTRAL, AND ONE GROUND IN CONCEALED CONDUIT (#12 IN 1/2" C.U.)
#14's (wire number indicated) symbol"/>	#14'S (WIRE NUMBER INDICATED)
#16's (wire number indicated) symbol"/>	#16'S (WIRE NUMBER INDICATED)
	EXPOSED CONDUIT
	CONDUIT TURNING DOWN
	CONDUIT TURNING UP

WIRING DEVICES & OUTLETS	
	SIMPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	GROUND FAULT INTERRUPTER
	WEATHERPROOF DUPLEX RECEPTACLE
	QUAD RECEPTACLE
	HEAVY DUTY RECEPTACLE-NEMA TYPE AS NOTED
	FLOOR MOUNTED DEVICE
	CEILING MOUNTED DEVICE
	ISOLATED GROUND DUPLEX RECEPTACLE
	ISOLATED GROUND QUAD RECEPTACLE
	WALL MOUNTED PHONE
	CENTER OF DEVICE AT 48" A.F.F.
	DEVICE ON EMERGENCY POWER
	TELEPHONE/DATA OUTLET
	CABLE T.V. OUTLET
	CABLE TRAY
	SURFACE RACEWAY
	SWITCH, SPST UNO.
	SWITCH, DPST
	FUSESTAT
	3-WAY SWITCH
	4-WAY SWITCH
	DIMMER SWITCH
	JAMB SWITCH
	MOTOR RATED SWITCH
	SWITCH WITH WEATHERPROOF COVER
	KEYED SWITCH
	TIME SWITCH
	PUSH BUTTON
	PHOTOCELL SWITCH
	CEILING OCCUPANCY SENSOR
	ROOM CONTROLLER
	EMERGENCY CONTROL UNIT

LIGHTING	
	LIGHT TRACK WITH LIGHT TYPES AS INDICATED
	WALL WASHER LIGHTING FIXTURE, ARROW INDICATES DIRECTION
	FLUORESCENT FIXTURE AND TYPE
	EMERGENCY LIGHT FIXTURE
	NIGHT LIGHT FIXTURE
	LIGHT FIXTURE AND TYPE
	EMERGENCY LIGHT FIXTURE
	WALL MOUNTED FIXTURE
	WALL SCONCE
	POLE MOUNTED LIGHT (NUMBER OF HEADS AS SHOWN)
	IN-GROUND LIGHT FIXTURE
	BOLLARD LIGHT FIXTURE
	EXIT LIGHT C.L.G. MNTD. (S.G.L. FACE)
	EXIT LIGHT C.L.G. MNTD. (DBL. FACE)
	EXIT LIGHT WALL MNTD. (S.G.L. FACE)
	EXIT/EMERGENCY LIGHT
	EMERGENCY LIGHT
	CEILING FAN

FIRE ALARM	
	FIRE ALARM CONTROL PANEL
	ANNUNCIATOR PANEL
	FIRE ALARM POWER EXTENDER
	PULL STATION
	KNOX BOX
	CONTROL RELAY
	SIGNAL ZONE ADDRESSABLE MODULE
	CONTROL ZONE ADDRESSABLE MODULE
	MONITOR ZONE ADDRESSABLE MODULE
	SINGLE STATION SMOKE DETECTOR
	SMOKE DETECTOR (SUP. RELAY BASE)
	SYSTEM SMOKE DETECTOR
	BEAM DETECTOR
	HEAT/THERMAL DETECTOR
	DUCT SMOKE DETECTOR
	INDIVIDUAL ADDRESSABLE MONITOR
	MAGNETIC DOOR HOLD
	SPEAKER/STROBE
	SPEAKER
	HORN
	VALVE TAMPER SWITCH
	FLOW SWITCH
	END OF LINE RESISTOR
	POST INDICATING VALVE
	FIRE ALARM BELL
	FIREMAN'S PHONE JACK
	SECURITY GUARD FOR DEVICE SHOWN
	COMBINATION SMOKE DETECTOR/CARBON MONOXIDE DETECTOR

NURSE CALL	
	NURSE CALL MASTER STATION
	NURSE CALL BEDSIDE STATION-SINGLE PATIENT
	NURSE CALL BEDSIDE STATION-DOUBLE PATIENT
	PATIENT EMERGENCY PULL CORD STATION
	PATIENT BED INTERFACE-37 PIN CONNECTOR
	DUTY STATION
	STAFF STATION
	ZONE DOME LIGHT
	CODE BLUE PUSHBUTTON STATION
	EMERGENCY STAFF STATION

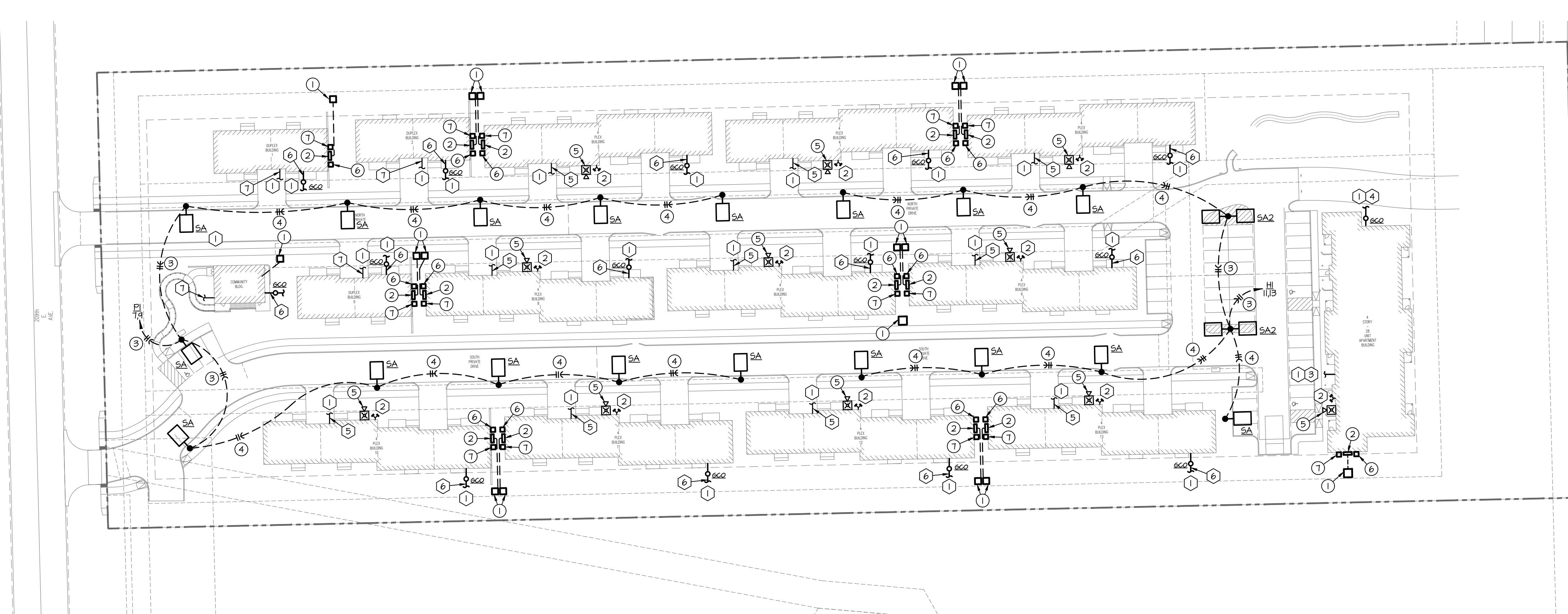
COMMUNICATIONS	
	SPEAKER HORN-PROJECTION TYPE
	SPEAKER
	VOLUME CONTROL
	MICROPHONE JACK
	COMBINATION SPEAKER/CLOCK
	SYSTEM CLOCK
	ELAPSED TIME CLOCK
	INTERCOM
	POWER SUPPLY
	AMPLIFIER

SECURITY	
	CLOSED CIRCUIT TELEVISION CAMERA
	ELECTRIC DOOR LOCK
	DOOR MONITOR
	CARD READER
	GLASS BREAK
	REQUEST TO EXIT BUTTON
	SECURITY MONITOR
	PANIC BUTTON (D=DESK, W=WALL, F=FLOOR)
	KEY PAD

ABBREVIATIONS

A	AMPS, AIR (COMPRESSED)
A/C	AIR CONDITIONING
AF	AMPERE FUZE
AFG	AREA FOR EVACUATION ASSISTANCE
AFFA	AREA FOR EVACUATION ASSISTANCE
AFF	ABOVE FINISHED FLOOR
AFS	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIG	AMPERE INTERRUPTING CURRENT
AL	ALUMINUM
ALD	AIR PRESSURE DROP
ATS	AUTOMATIC TRANSFER SWITCH
AV	ACID VENT
AM	ACID MASTE
AWG	AMERICAN WIRE GAUGE
BCU	BLOWER COIL UNIT
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BFF	BELOW FINISHED FLOOR
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STRUCTURE
BTUH	BRITISH THERMAL UNITS PER HOUR
C	CONDUIT
CT	CURRENT TRANSFORMER
CTV	CABLE TELEVISION SYSTEM
CAV	CONSTANT AIR VOLUME
CCTV	CLOSED CIRCUIT TELEVISION
CD	CONDENSATE DRAIN
CF	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CO	GLAUCONIT, CARBON MONOXIDE
CO2	CARBON DIOXIDE
CTR	COOLING TOWER
CTD	COOLING TOWER RETURN
CTS	COOLING TOWER SUPPLY
CU	COPPER, CONDENSING UNIT
CUH	CABINET UNIT HEATER
CM	COLD WATER
CNR	CHILLED WATER RETURN
CMS	CHILLED WATER SUPPLY
D	DRAIN
DDG	DIRECT DIGITAL CONTROL
DFU	DRAINAGE FIXTURE UNIT
DN	DOWN
DDPT	DOUBLE-POLE, DOUBLE-THROW
DDPT	DOUBLE-POLE, SINGLE-THROW
DX	DIRECT EXPANSION
E	EMERGENCY
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
E/C	ELECTRICAL CONTRACTOR
EDB	ENTERING DRY BULB
EF	FAN
EJ	EXPANSION JOINT
ESFR	EARLY SUPPRESSION FAST RESPONSE
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EMB	ENTERING WET BULB
EMC	ELECTRIC WATER COOLER
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FCO	FLOOR CLEANOUT
FCU	FAN COOL UNIT
FD	FIRE DAMPER, FLOOR DRAIN
FF	FINISHED FLOOR
FGCO	FINISHED GRADE CLEANOUT
FL	FLOW LINE
FLA	FULL LOAD AMPS
FPC	FIRE PROTECTION CONTRACTOR
FV	FAN TERMINAL UNIT
FVNR	FULL VOLTAGE, NON-REVERSING
G	NATURAL GAS
G/C	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GM	GREASE WASTE
HB	HOSE BIBB
HCR	HOT/CHILLED WATER RETURN
HCS	HOT/CHILLED WATER SUPPLY
HD	HEAD, HUB DRAIN
HOA	HAND-OFF-AUTOMATIC
HPC	HEAT PUMP
HPR	HIGH PRESSURE CONDENSATE
HPS	HEAT PUMP RETURN
HSTAT	HEAT PUMP SUPPLY, HIGH PRESSURE STEAM
HTG	HUMIDISTAT
HTR	HEATING
HWR	HEATER
HWS	HOT WATER RETURN
HWS	HOT WATER SUPPLY
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IG	ISOLATED GROUND
IN, INC	INCHES OF WATER COLUMN
INC.	INCANDESCENT
kcmil	1000 CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT-AMPS
KVAR	KILOVOLT-AMPS REACTIVE
KN	KILOWATT
KWH	KILOWATT-HOUR
L	LAVATORY
LAT	LEAVING AIR TEMPERATURE
LFB	LEAVING DRY BULB
LF	LINEAR FEET
LP	LOW PRESSURE
LPC	LOW PRESSURE STEAM CONDENSATE
LPG	LIQUIFIED PETROLEUM GAS (PROPANE)
LPS	LOCKED ROTOR AMPS
LRA	LEAVING WET BULB
LWB	LEAVING WATER TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MH	1000 BTU PER HOUR
MIC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MCC	MOTOR CONTROL CENTER
MCH	1000 CIRCULAR MILS
MD	MOTORIZED DAMPER
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MH	MANHOLE/METAL HALIDE
MLO	MAIN LUGS ONLY
MPC	MEDIUM PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM
MS	MOTOR STARTER
MSB	MAIN SWITCHBOARD
MTD	MOUNTED
MAU	MAKE-UP AIR UNIT
N	NITROGEN
N/A	NOT APPLICABLE
NC	NOISE CRITERIA
NFPH	NON-FREEZE WALL HYDRANT
NO	NOT IN CONTRACT
N/O	NITROUS OXIDE
N/C	NORMALLY OPEN, NORMALLY CLOSED

O	OXYGEN
OA	OUTSIDE AIR
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
ORD	OVERFLOW ROOF DRAIN
PA	PIPE ANCHOR
PCNR	PRIMARY CHILLED WATER RETURN
PCAS	PRIMARY CHILLED WATER SUPPLY
PCR	PUMPED CONDENSATE RETURN
PD	PRESSURE DROP (FEET OF WATER)
PHAGE	PHAGE
PHR	PRIMARY HEATING WATER RETURN
PHWG	PRIMARY HEATING WATER SUPPLY
PHL	PRESSURE REDUCING VALVE
PRV	PRESSURE REDUCING VALVE
PS	PULSE START
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH-ABSOLUTE
PSIG	POUNDS PER SQUARE INCH-GAUGE
PT	POTENTIAL TRANSFORMER
QTY	QUANTITY
R	REFRIGERANT
RA	RETURN AIR
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REV	REVISION
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RLA	RUNNING LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
S	SINK, STEAM
SA	SUPPLY AIR
SAN	SANITARY SEWER
SCAR	SECONDARY CHILLED WATER RETURN
SCAS	SECONDARY CHILLED WATER SUPPLY
SD	SMOKE DAMPER, STORM DRAIN
SF	SURFY FAN
SHR	SECONDARY HEATING WATER RETURN
SHWS	SECONDARY HEATING WATER SUPPLY
SPST	SINGLE-POLE SINGLE-THROW
SP	STATIC PRESSURE
SOFT	SQUARE FOOT/SQUARE FEET
START/STOP	START/STOP
SS	SERVICE SINK, STAINLESS STEEL
ST	STORM DRAIN, SOUND TRAP, STEAM TRAP
STC	SOUND TRANSMISSION CLASS
STM	STEAM
SN	SOFT WATER
SNBD	SWITCHBOARD
T	TEMPERED WATER
TG	TEMPERATURE GAUGE
TDH	TOTAL DYNAMIC HEAD
TSP	TOTAL STATIC PRESSURE
TH	THERMOSTAT
TTAT	TRUSTLOCK



A1 SITE PLAN
SCALE: 1" = 50'

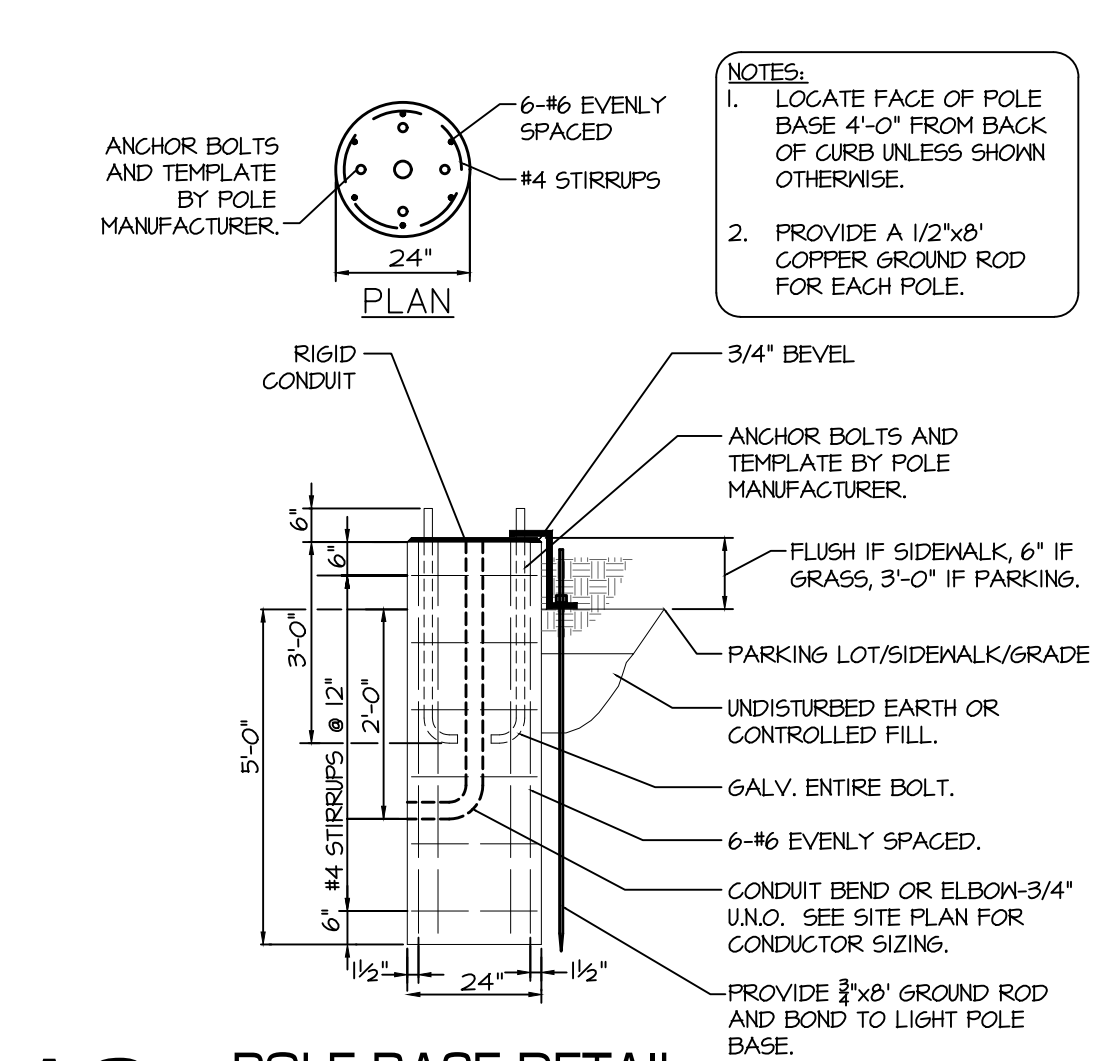
LIGHT FIXTURE SCHEDULE										
MARK	MANUFACTURER	MODEL	LAMP DATA				TOTAL WATTS	DESCRIPTION	NOTES	
			QUAN.	TYPE	VOLTS	MOUNTING				
SA	WILLIAMS	VAI-L83/140-T3-S-DIM-208-PCR	1	LED	208	POLE	EXTERIOR FIXTURE WITH TYPE 3 DISTRIBUTION	1,2,3		
SA2	WILLIAMS	VAI-L83/140-T4-S-DIM-208-PCR	2	LED	208	POLE	EXTERIOR FIXTURE WITH TYPE 4 DISTRIBUTION	1,2,3		

NOTES:

- FURNISH 22' TALL LIGHT POLE AND BASE COVER, WILLIAMS-55A-200-0400-188 / A356-T6, COLOR AS SPECIFIED BY ARCHITECT.
- COLOR SPECIFIED BY ARCHITECT.
- PROVIDE FIXTURE WITH INTEGRAL PHOTOCELL.

GENERAL NOTES:

A. PROVIDE ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION.



A2 POLE BASE DETAIL
SCALE: NOT TO SCALE

- GENERAL NOTES:**
- REFERENCE MECHANICAL SHEETS FOR MECHANICAL GENERAL NOTES.
 - REFERENCE PLUMBING SHEETS FOR PLUMBING GENERAL NOTES.
 - REFERENCE ELECTRICAL SHEETS FOR ELECTRICAL GENERAL NOTES.
 - ALL ELECTRICAL WORK SHALL COMPLY WITH UTILITY COMPANY STANDARDS, AND BE APPROVED BY UTILITY COMPANY AND CITY PRIOR TO INSTALLATION.
 - REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATION OF BUILDING TYPES.

- ELECTRICAL PLAN NOTES:**
- PROPOSED ELECTRIC UTILITY TRANSFORMER. PROVIDE TRANSFORMER PAD PER LOCAL UTILITY REQUIREMENTS, REFER TO ELECTRICAL RISER DIAGRAM FOR EACH RESPECTIVE BUILDING FOR MORE INFORMATION. IMMEDIATELY AFTER BEING AWARDED CONTRACT, NOTIFY ELECTRIC UTILITY OF WORK ON SITE TO BE PERFORMED BY ELECTRIC UTILITY. ROUTING OF ELECTRIC UTILITY WORK IS DIAGRAMMATIC AND FOR COORDINATION PURPOSES ONLY.
 - PROVIDE METER BANK AND MAIN CIRCUIT BREAKERS FOR ELECTRICAL SERVICE ON THE EXTERIOR OF THE BUILDING AT THIS LOCATION. REFER TO ELECTRICAL RISER DIAGRAM #1.
 - PROVIDE (2) #8'S, AND A #10 GROUND IN 3/4" CONDUIT.
 - PROVIDE (2) #10'S, AND A #10 GROUND IN 3/4" CONDUIT.
 - PROVIDE WEATHERPROOF HORNSTROBE ON EXTERIOR OF BUILDING. CIRCUIT TO FIRE PROTECTION FLOW AND TAMPER SWITCHES, ROUTE TO ADDRESSABLE FIRE ALARM CONTROL PANEL LOCATED IN APARTMENT BUILDING.
 - BUILDING CABLE TELEVISION CONNECTION BOX.
 - BUILDING TELEPHONE CONNECTION BOX.

- PLUMBING PLAN NOTES:**
- REFER TO CIVIL SITE PLAN FOR CONTINUATION.
 - FIRE DEPARTMENT SIAMESE CONNECTION.
 - 6" COMBINED DOMESTIC WATER AND FIRE PROTECTION SERVICE LINE.
 - 6" SANITARY DRAIN LINE.
 - 4" COMBINED DOMESTIC WATER AND FIRE PROTECTION SERVICE LINE.
 - 4" SANITARY DRAIN LINE.
 - 1" DOMESTIC WATER SERVICE LINE.



ARCHITECTURAL CORPORATION
OKLAHOMA CERTIFICATE
OF AUTHORITY NO. CA 02479

TIMBER RIDGE COTTAGES
SECTION 8, TOWNSHIP 18, RANGE 15
BROKEN ARROW, WAGONER COUNTY, OKLAHOMA

STARK WILSON DUNCAN ARCHITECTS INC.
315 NICHOLS RD., STE 228 - KANSAS CITY, MO 64112 - T: 816.531.1698 F: 816.531.1978



MPE SITE PLAN

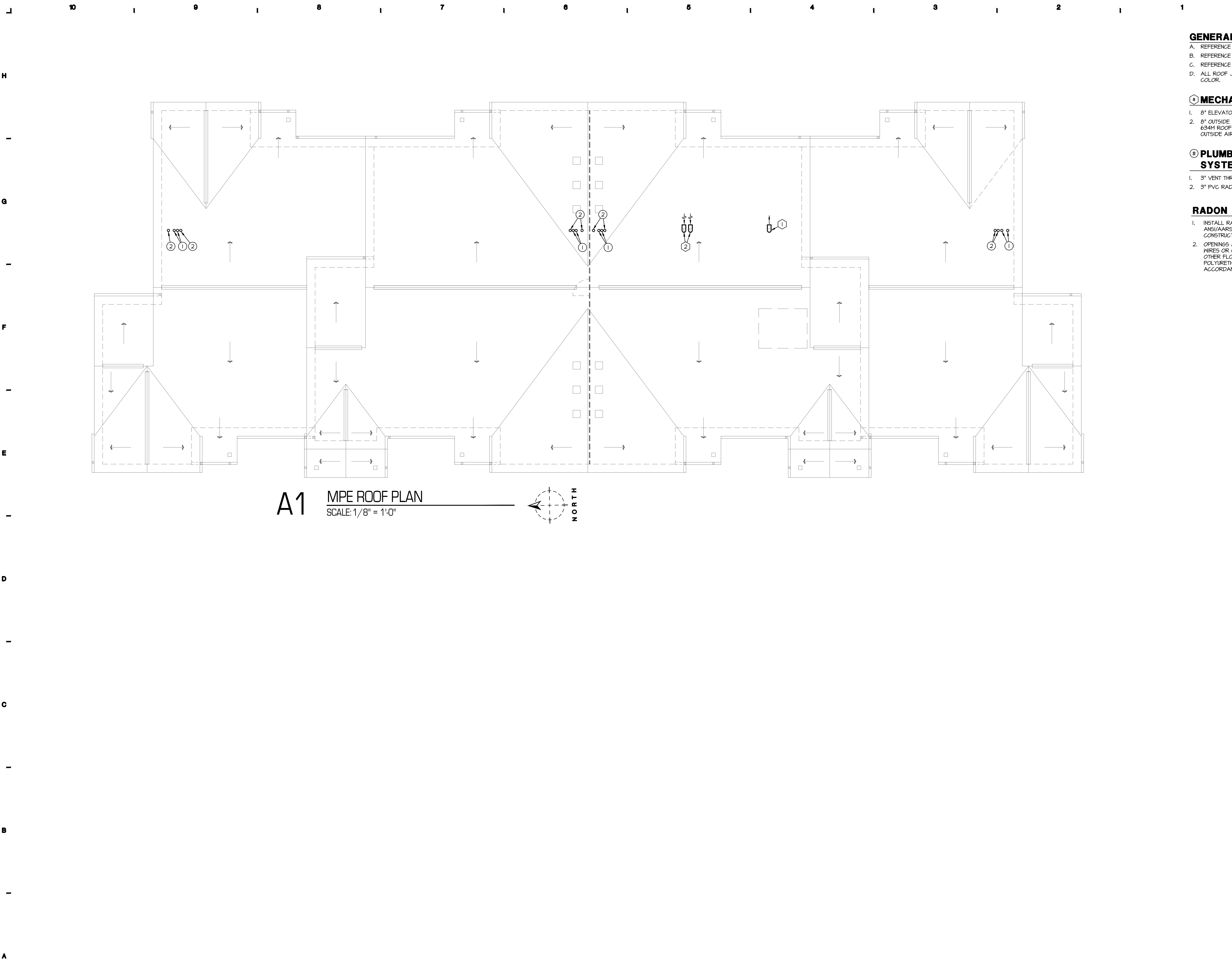
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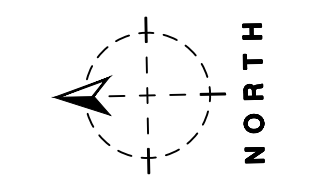
PROJECT NO.: 1902

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A1 MPE ROOF PLAN
SCALE: 1/8" = 1'-0"



GENERAL NOTES:

- A. REFERENCE SHEET M41 FOR MECHANICAL GENERAL NOTES.
- B. REFERENCE SHEET P01 FOR PLUMBING GENERAL NOTES.
- C. REFERENCE SHEET E21 FOR POWER GENERAL NOTES.
- D. ALL ROOF JACKS TO BE PAINTED TO MATCH ADJACENT ROOF COLOR.

MECHANICAL PLAN NOTES:

- 1. 8" ELEVATOR EXHAUST VENT. REFER TO DETAIL ON A M41.
- 2. 8" OUTSIDE AIR INTAKE ROOF CAP. PROVIDE BROAN MODEL 634M ROOF CAP WITHOUT BACKDRAFT DAMPER. REFER TO OUTSIDE AIR INTAKE DETAIL ON A M41.

PLUMBING AND RADON CONTROL SYSTEM PLAN NOTES:

- 1. 3" VENT THRU ROOF.
- 2. 3" PVC RADON VENT.

RADON CONTROL SYSTEM NOTES:

- 1. INSTALL RADON CONTROL SYSTEM IN ACCORDANCE WITH ANSI/AARST CC-1000-2017 "SOIL GAS CONTROL SYSTEMS IN NEW CONSTRUCTION BUILDINGS."
- 2. OPENINGS AROUND BATHTUBS, SHOWERS, WATER CLOSETS, PIPES, WIRES OR OTHER OBJECTS THAT PENETRATE CONCRETE SLABS OR OTHER FLOOR ASSEMBLIES SHALL BE FILLED WITH A POLYURETHANE GROUT OR EQUIVALENT SEALANT APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.



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STARK WILSON DUNCAN ARCHITECTS INC.
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1988 F 816.531.1978



APARTMENT
BUILDING MPE ROOF
PLAN

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TIMBER RIDGE COTTAGES
SECTION 8, TOWNSHIP 18, RANGE 15
BROKEN ARROW, WAGONER COUNTY, OKLAHOMA

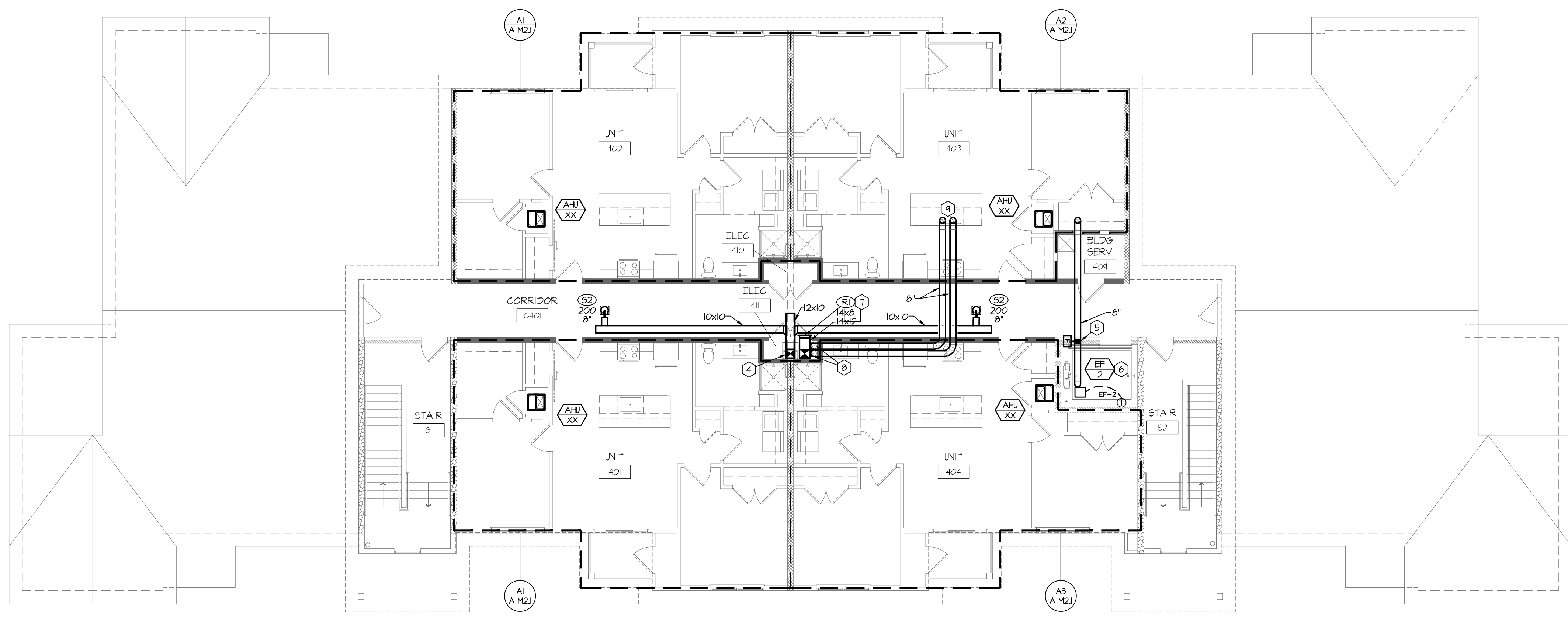
STARK WILSON DUNCAN ARCHITECTS, INC.
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1998 F 816.531.1978

GENERAL NOTES:

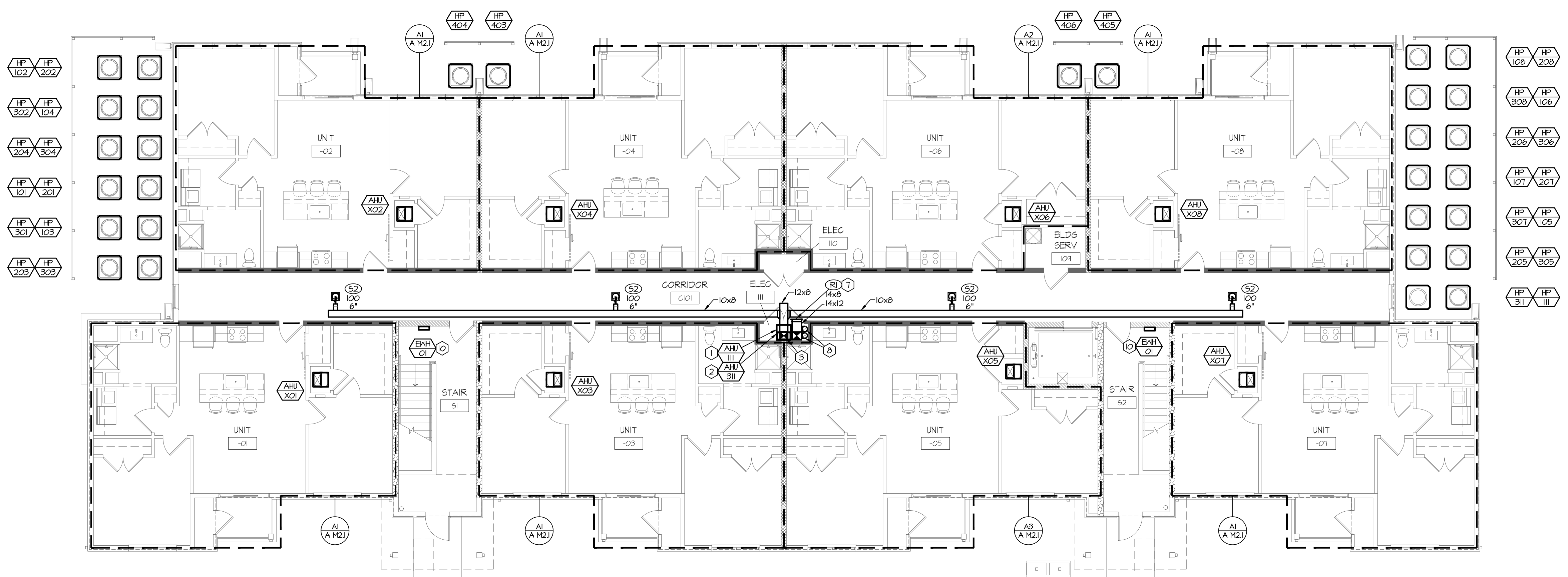
- A. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE SHEET METAL SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING ALL NECESSARY OFFSETS, FITTINGS AND SPECIAL RADIUS OR MITRED ELBOWS WHICH ARE REQUIRED DUE TO SPACE CONSTRAINTS OR OTHER CONDITIONS.
- B. COORDINATE THE INSTALLATION OF THE DUCTWORK AND EQUIPMENT WITH THE WORK OF ALL OTHER TRADES. VERIFY ALL CLEARANCES PRIOR TO THE FABRICATION OF ANY SYSTEM COMPONENTS.
- C. DUCTWORK SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT OR PANELS. PROVIDE THE CLEARANCE REQUIRED AROUND ALL ELECTRICAL EQUIPMENT AND PANELS.
- D. PROVIDE ALL MISCELLANEOUS SUPPORTING STEEL, ETC., FOR THE PROPER INSTALLATION OF ALL MECHANICAL SYSTEMS.
- E. COORDINATE FLOOR, WALL, ROOF PENETRATIONS, LOUVER SIZES, PAD LOCATIONS, ETC. WITH THE ARCHITECTURAL TRADES.
- F. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND WALL ELEVATIONS FOR EXACT LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS.
- G. DUCTWORK UPSTREAM OF SUPPLY TERMINAL UNITS SHALL BE BOX INLET SIZE UNLESS NOTED OTHERWISE. PROVIDE STRAIGHT DUCT AT TERMINAL INLET. STRAIGHT DUCT LENGTH SHALL BE A MINIMUM OF 1/2 TIMES THE DIAMETER OF THE INLET DUCT, OR GREATER, AS RECOMMENDED BY MANUFACTURER.
- H. DUCTWORK DOWNSTREAM OF SUPPLY TERMINAL UNITS SHALL BE BOX OUTLET SIZE UNLESS NOTED OTHERWISE.
- I. BRANCH DUCTWORK TO DIFFUSERS, REGISTERS OR GRILLES SHALL BE NECK SIZE UNLESS NOTED OTHERWISE.
- J. ALL DUCTWORK DIMENSIONS INDICATE THE INSIDE CLEAR DIMENSION.
- K. PROVIDE ACCESS DOORS IN HARD CEILING AREAS FOR ACCESS TO TERMINAL UNITS, BALANCING DAMPERS, TERMINAL UNIT HEATING COIL PIPING, ETC. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES. COORDINATE WITH THE ARCHITECTURAL TRADES.

PLAN NOTES:

1. AIR HANDLING UNIT LOCATED ON FIRST FLOOR ONLY AND SERVES FIRST AND SECOND FLOOR.
2. AIR HANDLING UNIT LOCATED ON THIRD FLOOR ONLY AND SERVES THIRD AND FOURTH FLOOR.
3. 12x12 DUCT UP SERVING SECOND FLOOR CORRIDOR.
4. 12x12 DUCT UP FROM THIRD FLOOR.
5. PROVIDE FIRE DAMPER AT PENETRATION OF TOP OF ELEVATOR SHAFT.
6. MOUNT EXHAUST FAN AS HIGH AS POSSIBLE IN ELEVATOR SHAFT. LOCATE THERMOSTAT IN ELEVATOR SHAFT AT TOP OF SHAFT. SET TO KEEP SPACE BETWEEN 60-70 DEGREES.
7. LOCATE RETURN GRILL ON ALL FLOORS HIGH ON WALL ABOVE DOOR.
8. 8" OUTSIDE AIR DUCT DOWN IN CHASE. REFER TO DETAIL ON SHEET A141 FOR AIR HANDLING UNIT CONNECTIONS.
9. ROUTE (2) 8" OUTSIDE AIR DUCT UP THROUGH ROOF. REFER TO ROOF PLAN FOR CONTINUATION.
10. EQUIPMENT LOCATED ON FIRST FLOOR ONLY.



A2 4TH FLOOR MECHANICAL PLAN
SCALE: 1/8" = 1'-0"
NORTH



A1 1ST - 3RD FLOOR MECHANICAL PLAN
SCALE: 1/8" = 1'-0"
NORTH



APARTMENT
BUILDING
MECHANICAL PLAN

ISSUE DATE:
OCTOBER 18, 2019
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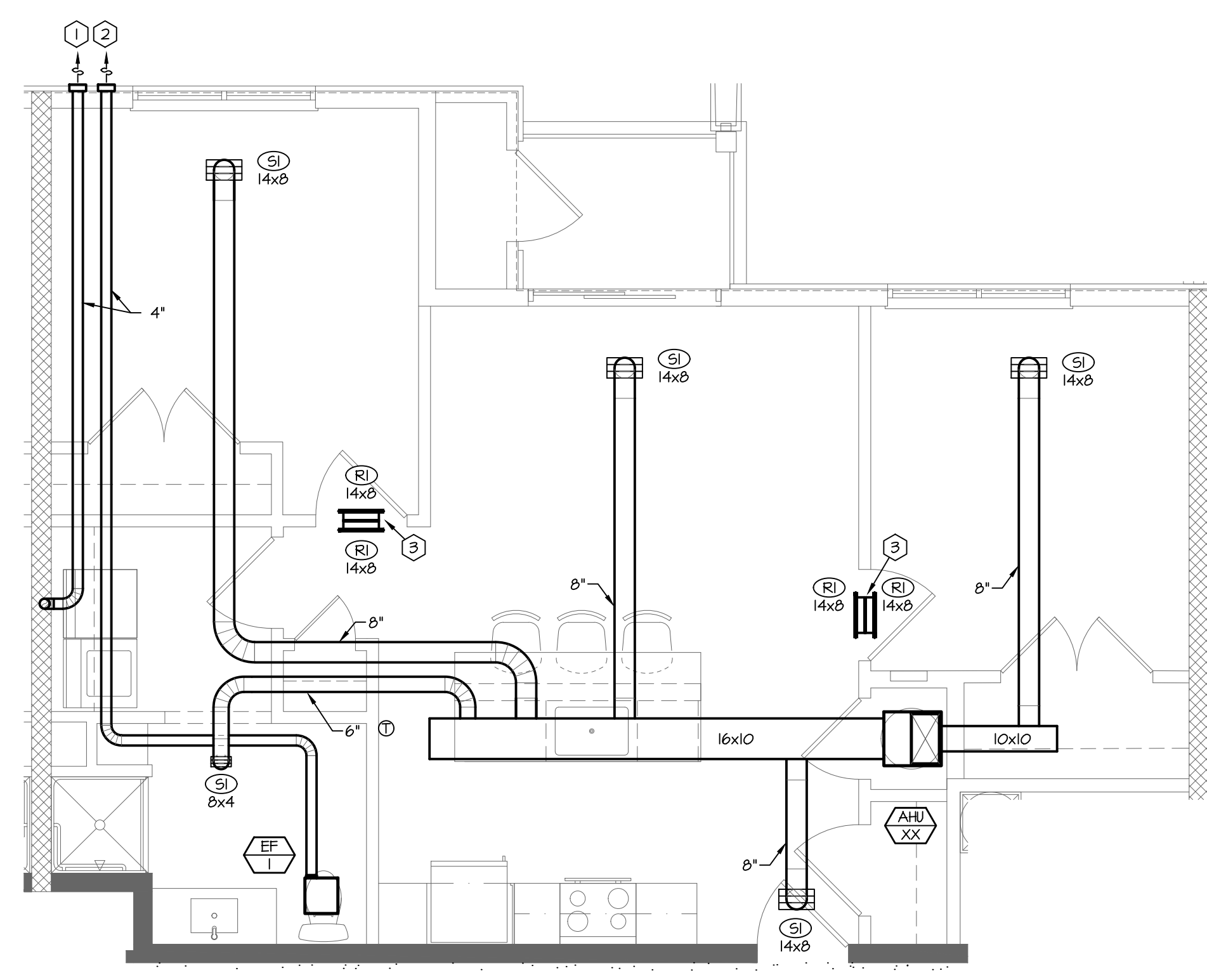
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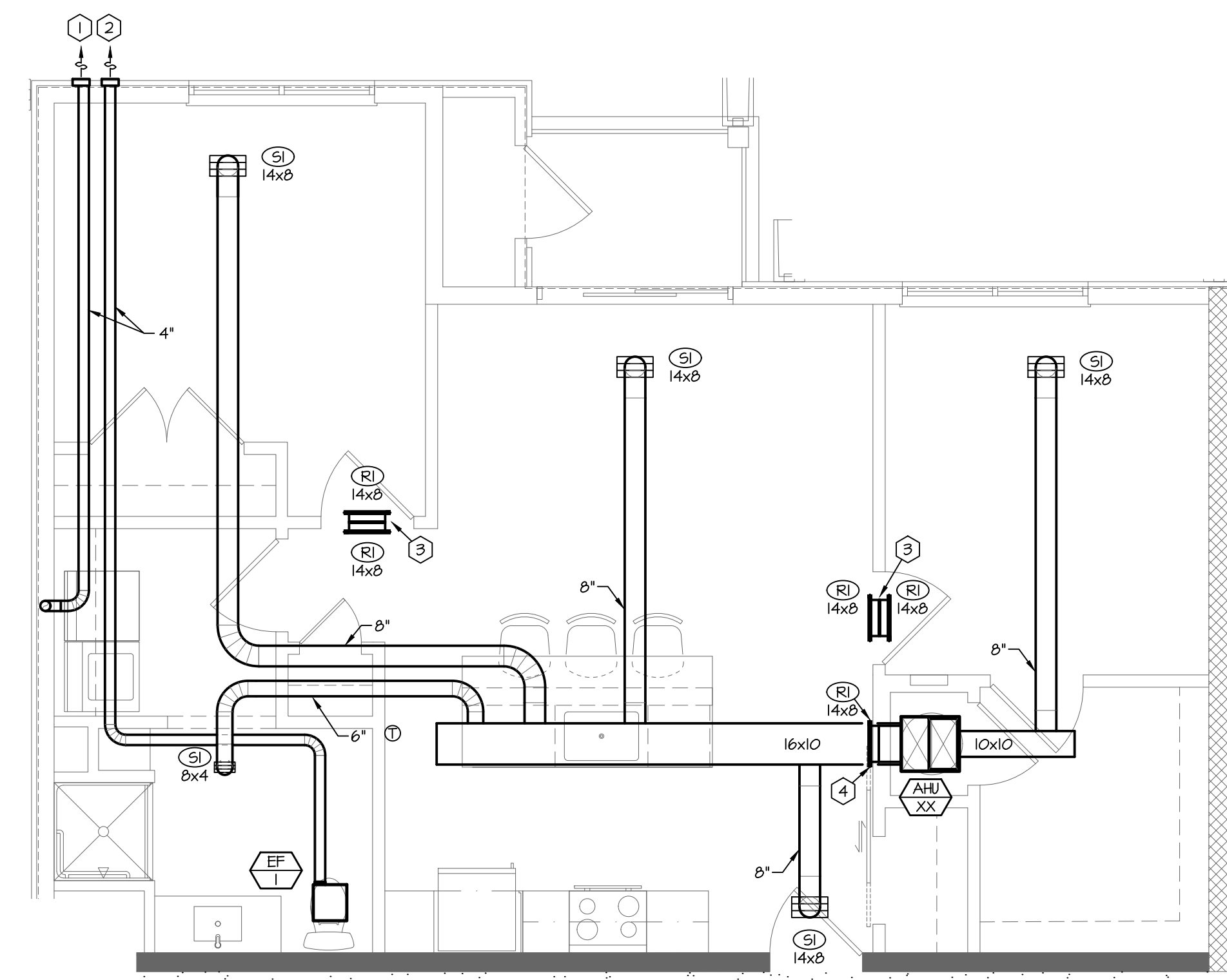
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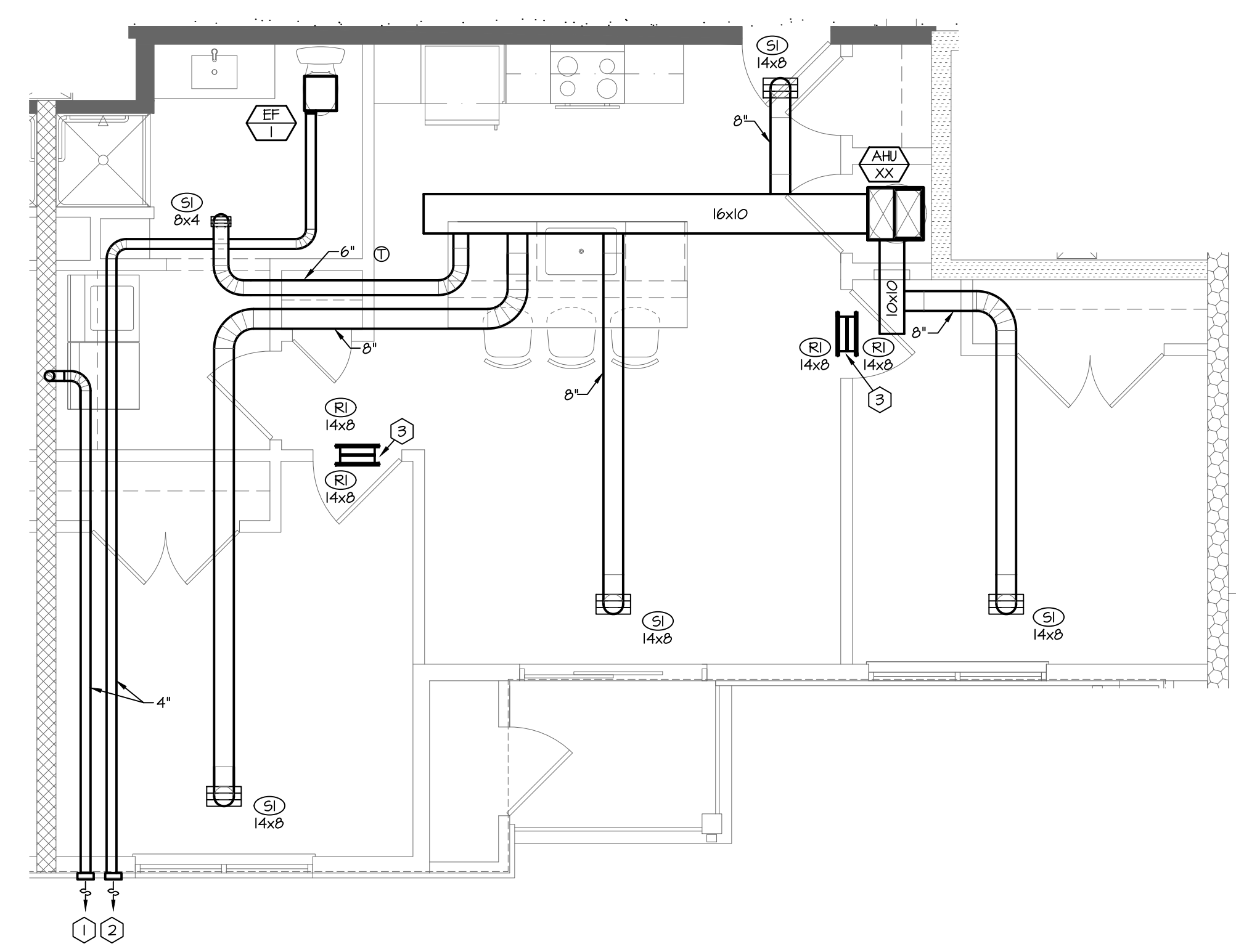
H
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A2 ENLARGED MECHANICAL PLAN
SCALE: 1/4" = 1'-0"



A1 ENLARGED MECHANICAL PLAN
SCALE: 1/4" = 1'-0"



A3 ENLARGED MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

- A. THESE DRAWINGS ARE DIAGNOSTIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE SHEET METAL SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING ALL NECESSARY OFFSETS, FITTINGS AND SPECIAL RADIUS OR MITRED ELBOWS WHICH ARE REQUIRED DUE TO SPACE CONSTRAINTS OR OTHER CONDITIONS.
- B. COORDINATE THE INSTALLATION OF THE DUCTWORK AND EQUIPMENT WITH THE WORK OF ALL OTHER TRADES. VERIFY ALL CLEARANCES PRIOR TO THE FABRICATION OF ANY SYSTEM COMPONENTS.
- C. DUCTWORK SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT OR PANELS. PROVIDE THE CLEARANCE REQUIRED FOR THE PROPER INSTALLATION OF ALL MECHANICAL SYSTEMS.
- D. PROVIDE ALL MISCELLANEOUS SUPPORTING STEEL, ETC., FOR THE PROPER INSTALLATION OF ALL MECHANICAL SYSTEMS.
- E. COORDINATE FLOOR, WALL, ROOF PENETRATIONS, LOUVER SIZES, PAD LOCATIONS, ETC. WITH THE ARCHITECTURAL TRADES.
- F. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND WALL ELEVATIONS FOR EXACT LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS.
- G. DUCTWORK UPSTREAM OF SUPPLY TERMINAL UNITS SHALL BE BOX INLET SIZE UNLESS NOTED OTHERWISE. PROVIDE STRAIGHT DUCT AT TERMINAL INLET. STRAIGHT DUCT LENGTH SHALL BE A MINIMUM OF 1 1/2 TIMES THE DIAMETER OF THE INLET DUCT, OR GREATER AS RECOMMENDED BY MANUFACTURER.
- H. DUCTWORK DOWNSTREAM OF SUPPLY TERMINAL UNITS SHALL BE BOX OUTLET SIZE UNLESS NOTED OTHERWISE.
- I. BRANCH DUCTWORK TO DIFFUSERS, REGISTERS OR GRILLES SHALL BE NECK SIZE UNLESS NOTED OTHERWISE.
- J. ALL DUCTWORK DIMENSIONS INDICATE THE INSIDE CLEAR DIMENSION.
- K. PROVIDE ACCESS DOORS IN HARD CEILING AREAS FOR ACCESS TO TERMINAL UNITS, BALANCING DAMPERS, TERMINAL UNIT HEATING COIL PIPING, ETC. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES. COORDINATE WITH THE ARCHITECTURAL TRADES.

PLAN NOTES:

- 1. 4" DRYER EXHAUST VENT. ROUTE TO EXTERIOR WALL AND PROVIDE WALL CAP (TYP.). TERMINATION SHALL BE EQUIPPED WITH BACKDRAFT DAMPER. MAINTAIN 3 FOOT CLEARANCE ABOVE OPERABLE WINDOWS. REFER TO DETAIL ON SHEET A4.
- 2. 4" BATH EXHAUST. DISCHARGE RESTROOM EXHAUST WITH WALL CAP. TERMINATION SHALL BE EQUIPPED WITH BACKDRAFT DAMPER. MAINTAIN 3 FOOT CLEARANCE ABOVE OPERABLE WINDOWS.
- 3. INSTALL RETURN GRILLE ABOVE DOOR.
- 4. LOCATE RETURN GRILLE HIGH ON WALL ABOVE ADJACENT SLIDING DOOR HEIGHT.



ARCHITECTURAL CORPORATION
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TIMBER RIDGE COTTAGES
SECTION 8, TOWNSHIP 18, RANGE 15
BROKEN ARROW, WAGONER COUNTY, OKLAHOMA

STARK WILSON DUNCAN ARCHITECTS INC.
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1998 F 816.531.1978



ENLARGED
APARTMENT
BUILDING
MECHANICAL PLAN

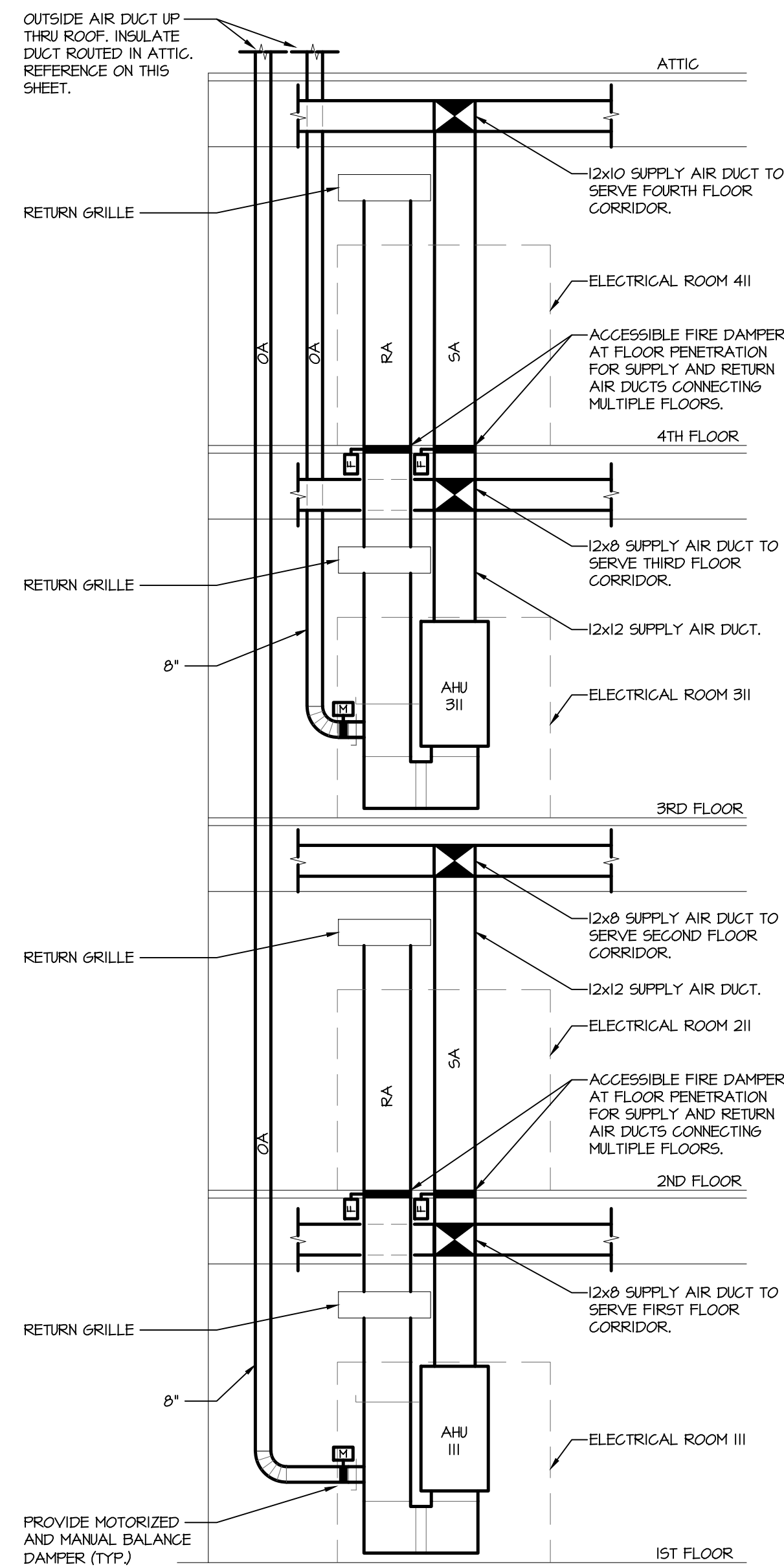
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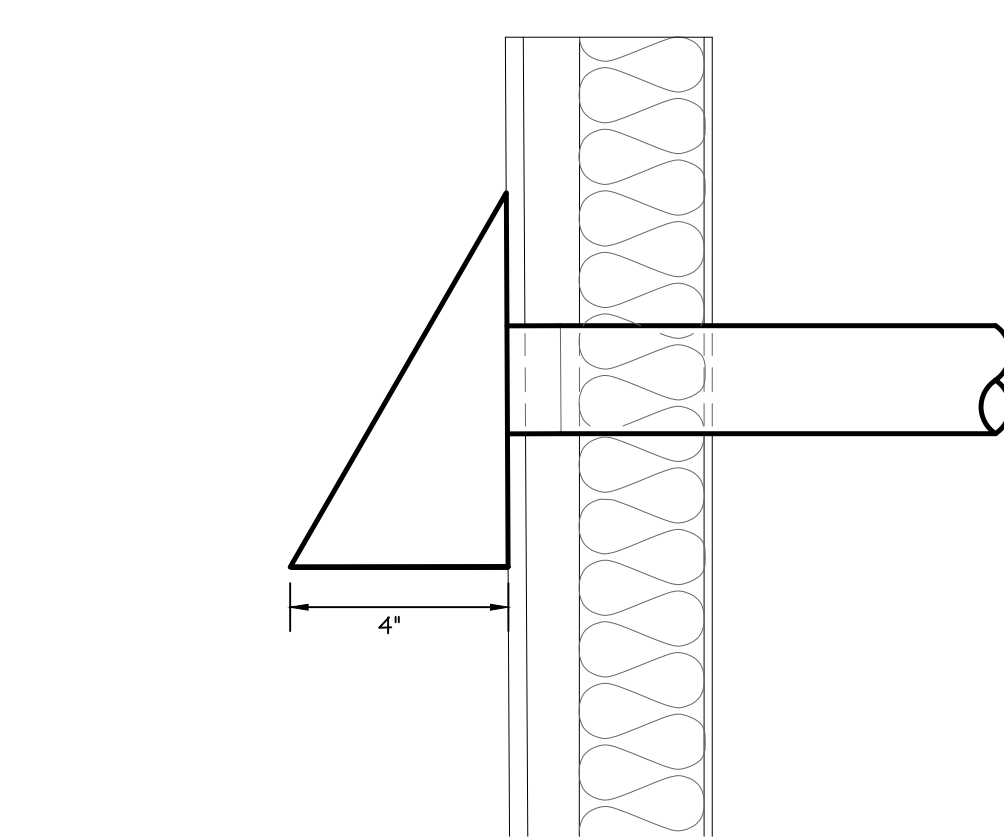
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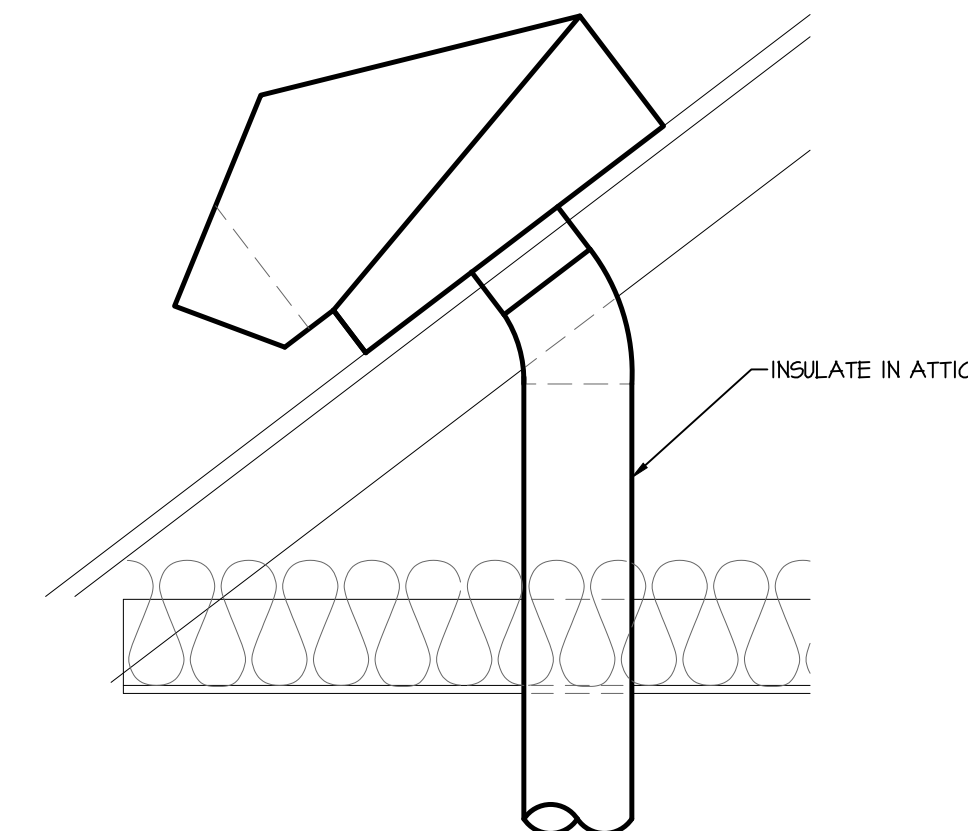


8 Corridor AHU Riser
Scale: Not to Scale



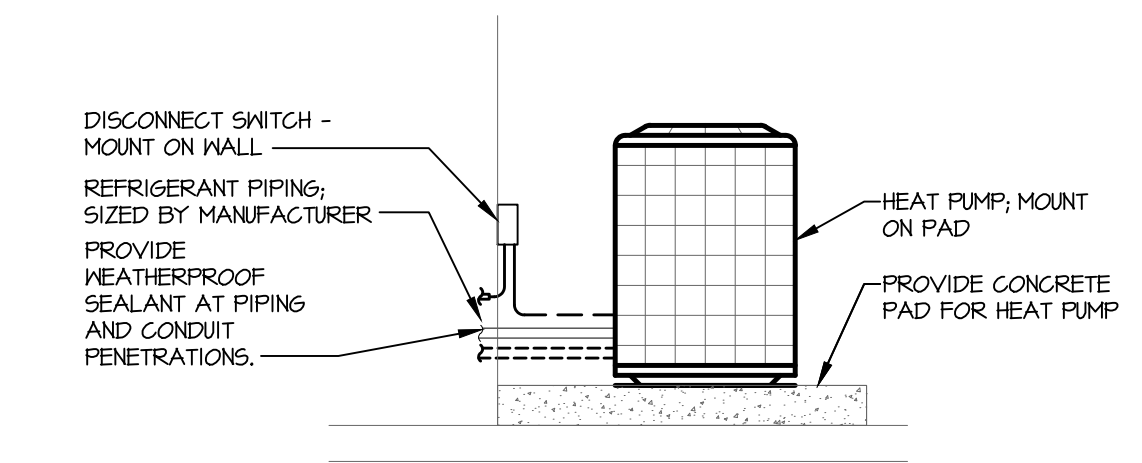
6 Exterior Wall Bathroom Exhaust & Dryer Exhaust Detail
Scale: Not to Scale

NOTES:
 1. DUCT SIZES SHALL BE AS INDICATED ON THE PLANS.
 2. PROVIDE SIDING AND FLASHING PER ARCHITECTURAL AND/OR SIDING MANUFACTURER'S REQUIREMENTS.
 3. USE POP RIVETS ON ALL DRYER VENT, SHEETMETAL SCREENS ARE NOT ACCEPTABLE.
 4. THE MALE END OF THE DUCT AT OVERLAPPED DUCT JOINTS SHALL EXTEND IN THE DIRECTION OF AIRFLOW.
 5. ALL WALL CAPS TO BE PAINTABLE.
 6. PROVIDE BUG SCREENS FOR BATHROOM EXHAUST.
 7. PROVIDE BACKDRAFT DAMPERS FOR BATHROOM EXHAUST AND DRYER EXHAUST.

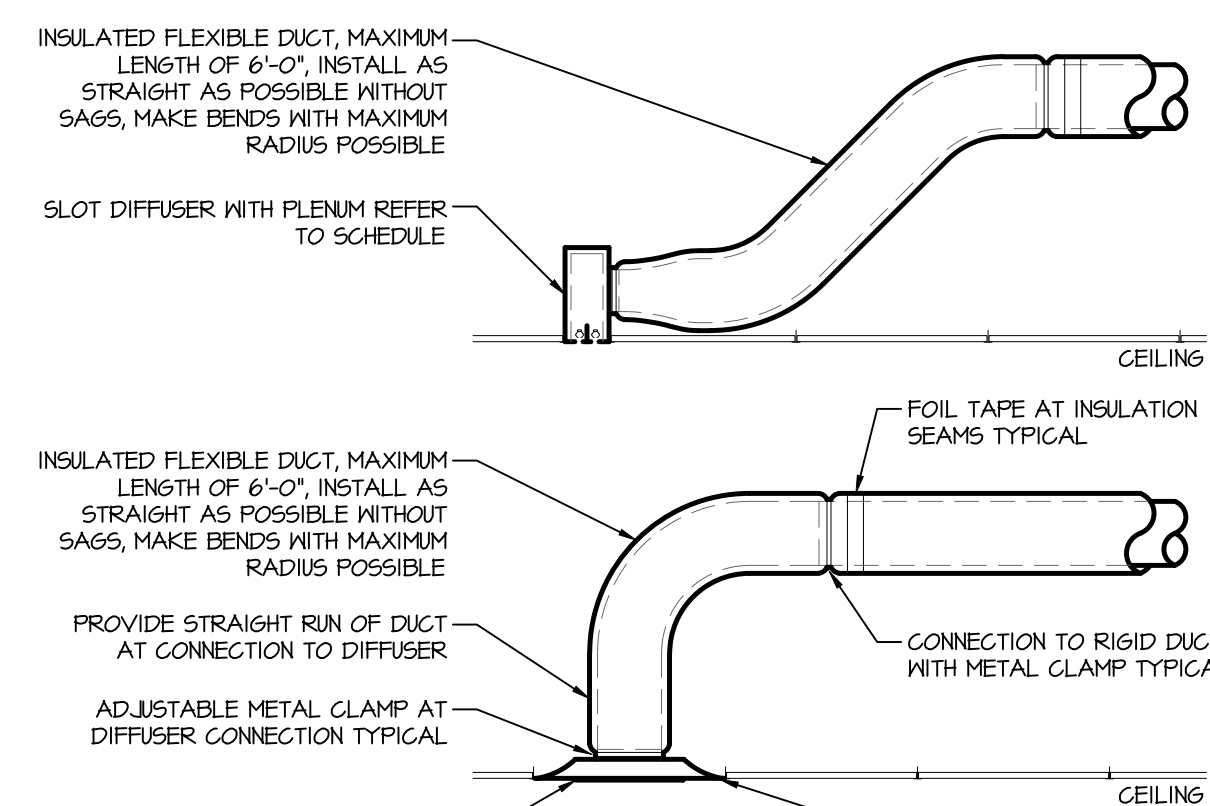


5 Outside Air Intake Detail
Scale: Not to Scale

NOTES:
 1. DUCT SIZES SHALL BE AS INDICATED ON THE PLANS.
 2. PROVIDE ROOFING AND FLASHING PER ARCHITECTURAL AND/OR ROOF MANUFACTURER'S REQUIREMENTS.
 3. USE POP RIVETS ON ALL DRYER VENT, SHEETMETAL SCREENS ARE NOT ACCEPTABLE.
 4. THE MALE END OF THE DUCT AT OVERLAPPED DUCT JOINTS SHALL EXTEND IN THE DIRECTION OF AIRFLOW.

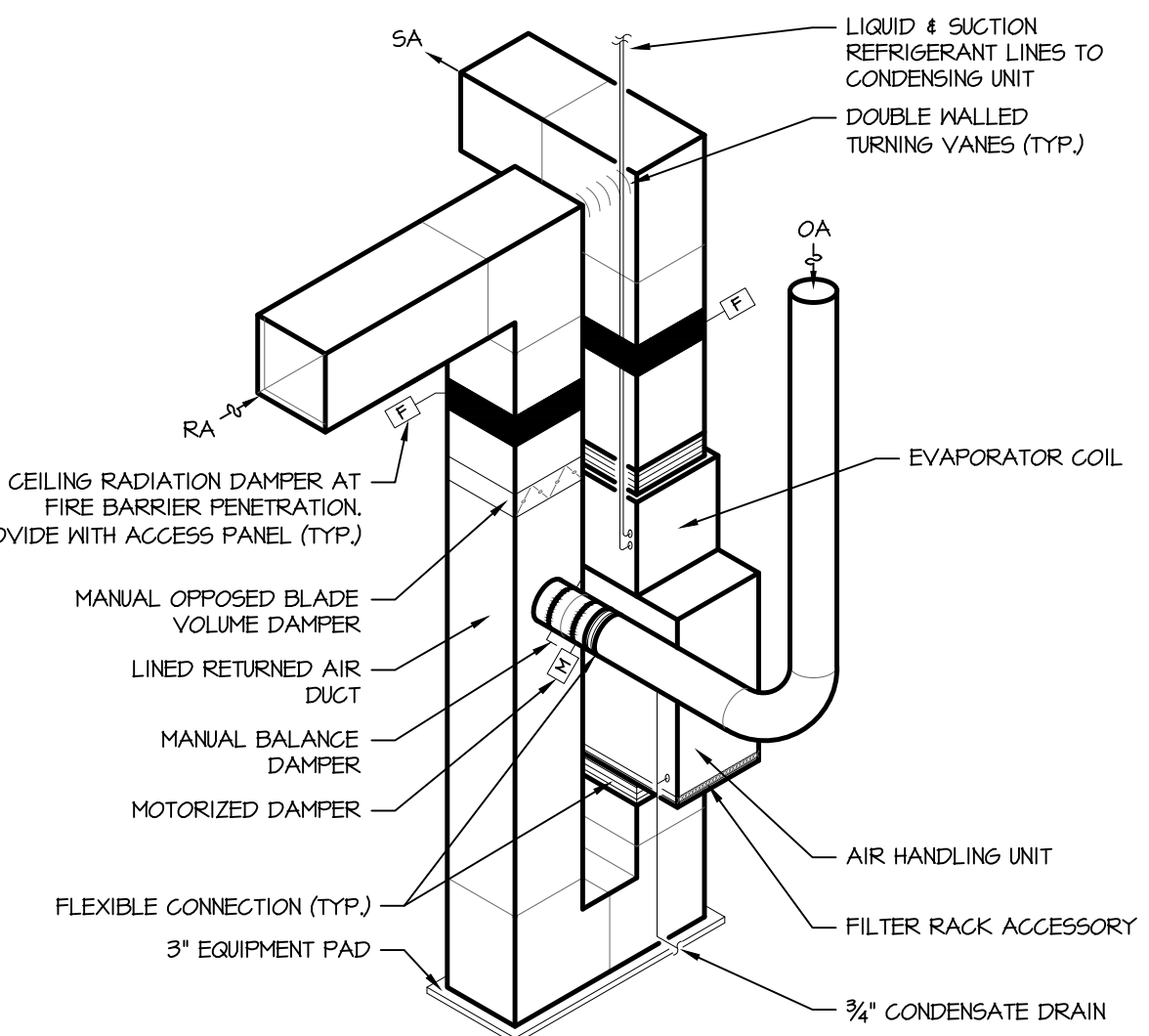


3 Heat Pump Mounting Detail
Scale: Not to Scale



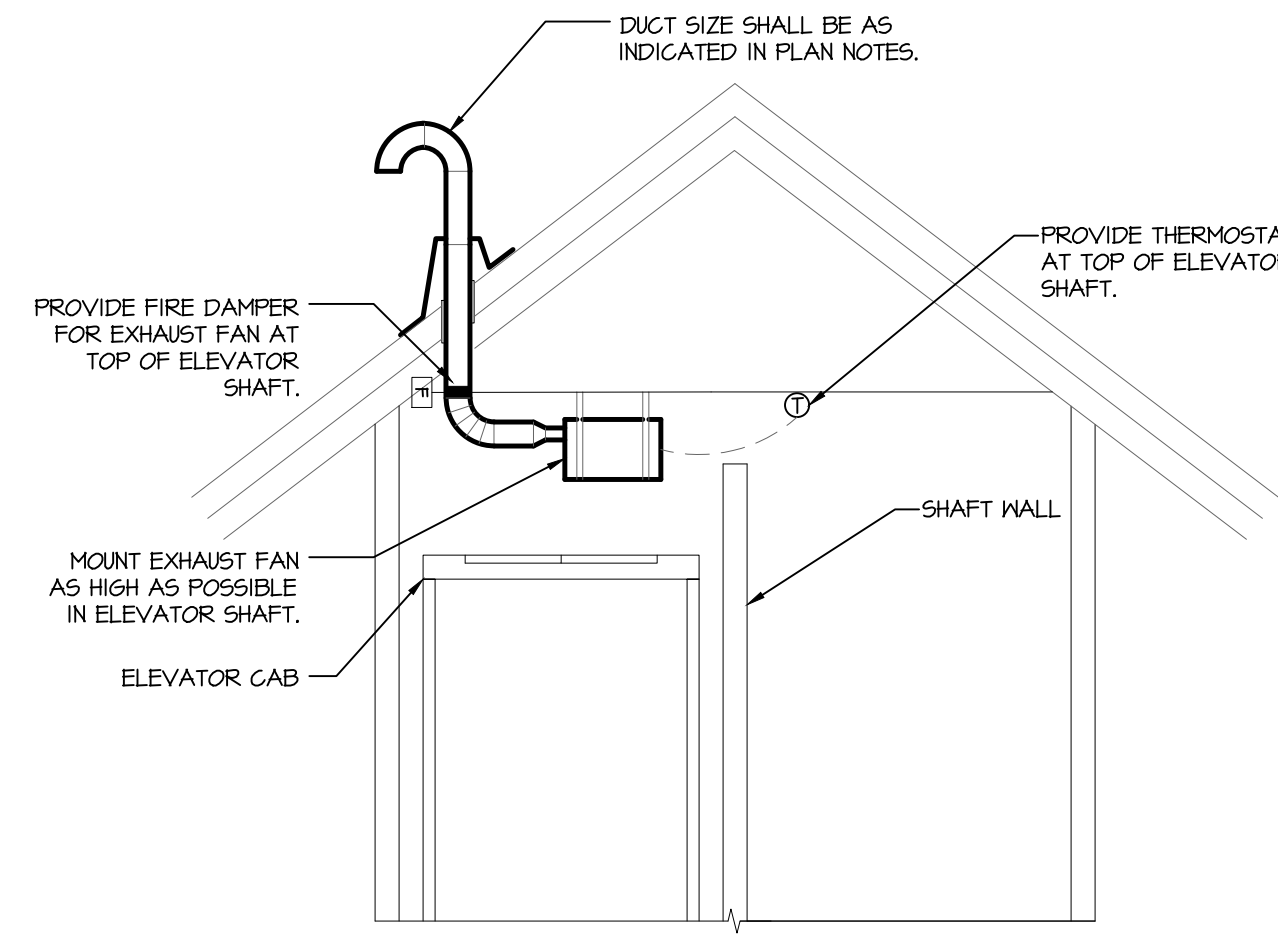
2 Diffuser Connection Detail
Scale: Not to Scale

NOTES:
 1. DUCT AND DIFFUSER SIZES SHALL BE AS INDICATED ON THE PLANS.
 2. SUPPORT DUCTWORK PER SPECIFICATIONS.
 3. COORDINATE CEILING TYPES WITH ARCHITECTURAL PLANS.

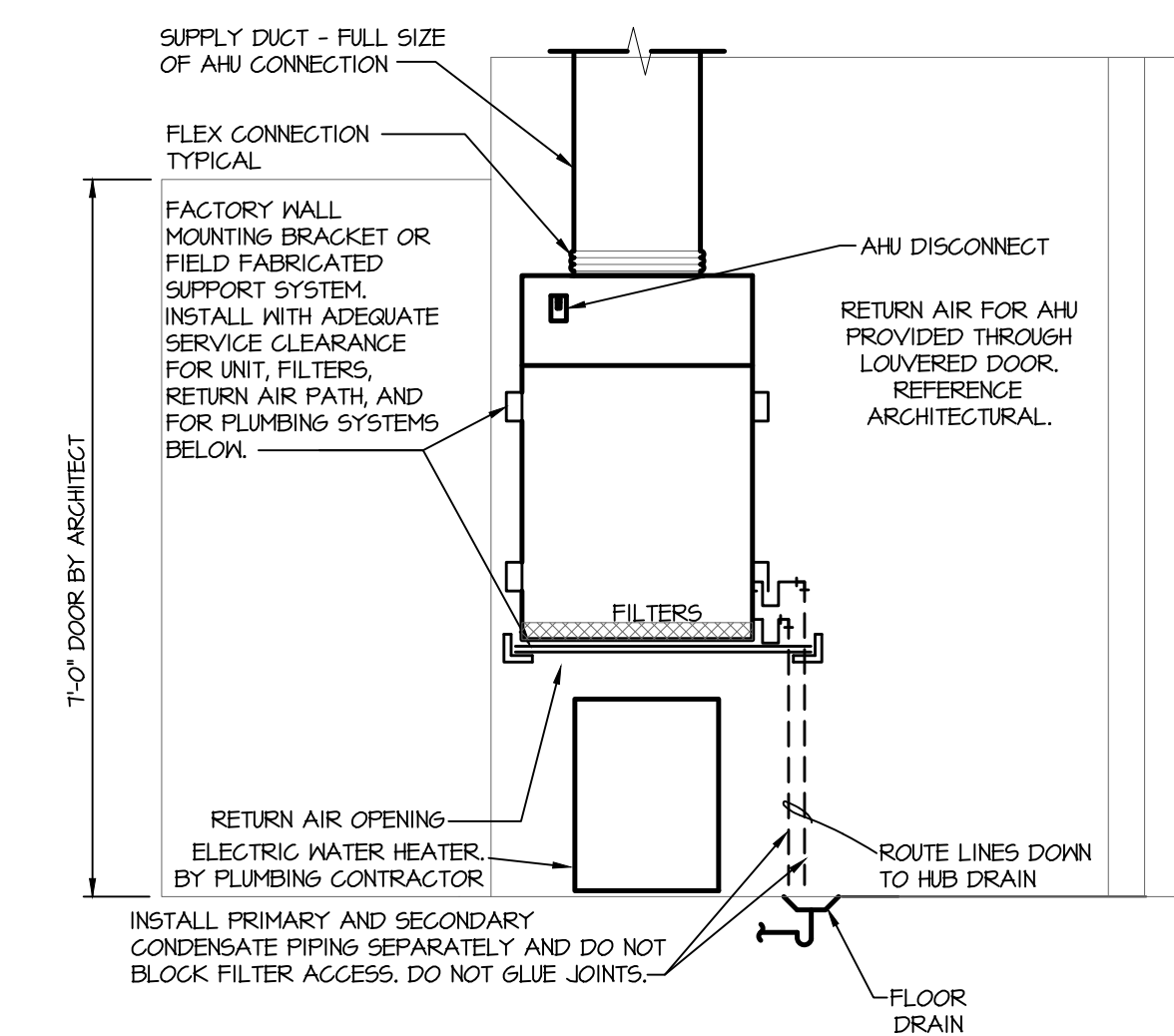


9 Air Handling Unit Corridor Detail
Scale: Not to Scale

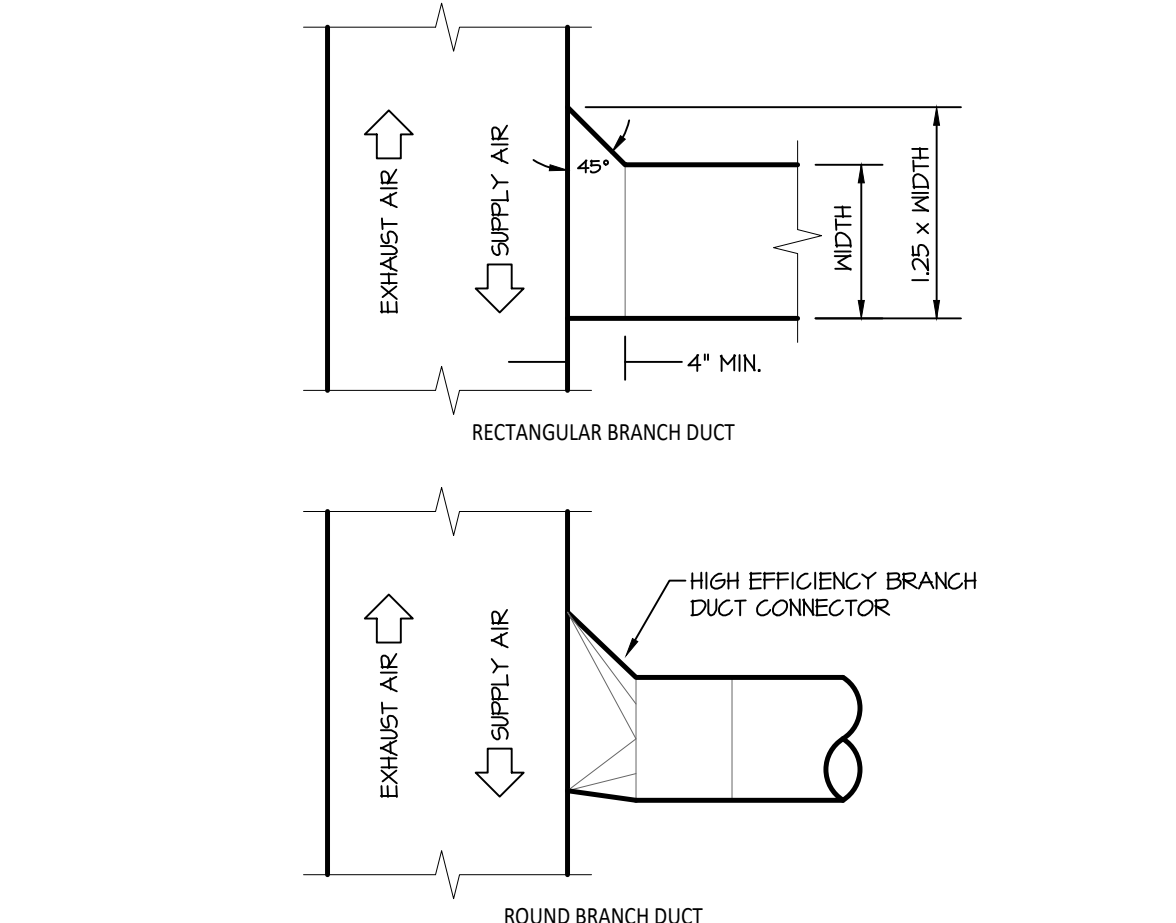
DESIGN NOTES:
 1. ACTUAL LAYOUT OF DUCTWORK, PIPING, EQUIPMENT LOCATIONS, ETC., SHALL VARY BASED ON MANUFACTURER COMPONENTS AND CONNECTIONS SUBJECT TO CHANGE PER MANUFACTURER'S REQUIREMENTS.



7 Elevator Exhaust Fan Detail
Scale: Not to Scale



4 Typical Apartment AHU Detail
Scale: Not to Scale



1 Branch Duct Detail
Scale: Not to Scale

NOTES:
 1. SUPPLY, RETURN AND EXHAUST FITTINGS ARE SIMILAR, ONLY DIRECTION OF AIRFLOW CHANGES.
 2. REFER TO FLOOR PLANS FOR BRANCH LOCATIONS REQUIRING BALANCING DAMPERS.



AIR HANDLING UNIT AND HEAT PUMP SCHEDULE

AIR HANDLING UNIT													HEAT PUMP						
MARK	MANUFACTURER	MODEL	MIN OA CFM	COOL MBH	COOLING FAN CFM	ESP	HEATING COIL MODEL	KW		MCA	MOCP	V/PH	MARK	MODEL	SEER	MCA	MOCP	V/PH	NOTES
AHU-101	GOODMAN	MBR0800	-	24.0	800	0.50	HKR-Ø	Ø.0	1.0	3Ø	40	20Ø/1	HP-101	6Ø214-024	14.0	14.6	25	20Ø/1	12.3,4
AHU-102	GOODMAN	MBR0800	-	24.0	800	0.50	HKR-Ø	Ø.0	1.0	3Ø	40	20Ø/1	HP-102	6Ø214-024	14.0	14.6	25	20Ø/1	12.3,4
AHU-103	GOODMAN	MBR0800	-	24.0	800	0.50	HKR-Ø	Ø.0	1.0	3Ø	40	20Ø/1	HP-103	6Ø214-024	14.0	14.6	25	20Ø/1	12.3,4
AHU-104	GOODMAN	MBR0800	-	24.0	800	0.50	HKR-Ø	Ø.0	1.0	3Ø	40	20Ø/1	HP-104	6Ø214-024	14.0	14.6	25	20Ø/1	12.3,4
AHU-105	GOODMAN	MBR0800	-	24.0	800	0.50	HKR-Ø	Ø.0	1.0	3Ø	40	20Ø/1	HP-105	6Ø214-024	14.0	14.6	25	20Ø/1	12.3,4
AHU-106	GOODMAN	MBR0800	-	24.0	800	0.50	HKR-Ø	Ø.0	1.0	3Ø	40	20Ø/1	HP-106	6Ø214-024	14.0	14.6	25	20Ø/1	12.3,4
AHU-107	GOODMAN	MBR0800	-	24.0	800	0.50	HKR-Ø	Ø.0	1.0	3Ø	40	20Ø/1	HP-107	6Ø214-024	14.0	14.6	25	20Ø/1	12.3,4
AHU-108	GOODMAN	MBR0800	-	24.0	800	0.50	HKR-Ø	Ø.0	1.0	3Ø	40	20Ø/1	HP-108	6Ø214-024	14.0	14.6	25	20Ø/1	12.3,4
AHU-111	GOODMAN	MBR0800	110	24.0	800	0.50	HKR-Ø	Ø.0	1.0	3Ø	40	20Ø/1	HP-111	6Ø214-024	14.0	14.6	25	20Ø/1	12.3,4
AHU-201	GOODMAN	MBR0800	-	24.0	800	0.50	HKR-Ø	Ø.0	1.0	3Ø	40	20Ø/1	HP-201	6Ø214-024	14.0	14.6	25	20Ø/1	12.3,4
AHU-202	GOODMAN	MBR0800	-	24.0	800	0.50	HKR-Ø	Ø.0	1.0	3Ø	40	20Ø/1	HP-202	6Ø214-024	14.0	14.6	25	20Ø/1	12.3,4
AHU-203	GOODMAN	MBR0800	-	24.0	800	0.50	HKR-Ø	Ø.0	1.0	3Ø	40	20Ø/1	HP-203	6Ø214-024	14.0	14.6	25	20Ø/1	12.3,4
AHU-204	GOODMAN	MBR0800	-	24.0	800	0.50	HKR-Ø	Ø.0	1.0	3Ø	40	20Ø/1	HP-204	6Ø214-024	14.0	14.6	25	20Ø/1	12.3,4
AHU-205	GOODMAN	MBR0800	-	24.0	800	0.50	HKR-Ø	Ø.0	1.0	3Ø	40	20Ø/1	HP-205	6Ø214-024	14.0	14.6	25	20Ø/1	12.3,4
AHU-206	GOODMAN	MBR0800	-	24.0	800	0.50	HKR-Ø	Ø.0	1.0	3Ø	40	20Ø/1	HP-206	6Ø214-024	14.0	14.6	25	20Ø/1	12.3,4
AHU-207	GOODMAN	MBR0800	-	24.0	800	0.50	HKR-Ø	Ø.0	1.0	3Ø	40	20Ø/1	HP-207	6Ø214-024	14.0	14.6	25	20Ø/1	12.3,4
AHU-208	GOODMAN	MBR0800	-	24.0	800	0.50	HKR-Ø	Ø.0	1.0	3Ø	40	20Ø/1	HP-208	6Ø214-024	14.0	14.6	25	20Ø/1	12.3,4
AHU-301	GOODMAN	MBR0800	-	24.0	800	0.50	HKR-Ø	Ø.0	1.0	3Ø	40	20Ø/1	HP-301	6Ø214-024	14.0	14.6	25	20Ø/1	12.3,4
AHU-302	GOODMAN	MBR0800	-	24.0	800	0.50	HKR-Ø	Ø.0	1.0	3Ø	40	20Ø/1	HP-302	6Ø214-024	14.0	14.6	25	20Ø/1	12.3,4
AHU-303	GOODMAN	MBR0800	-	24.0	800	0.50	HKR-Ø	Ø.0	1.0	3Ø	40	20Ø/1	HP-303	6Ø214-024	14.0	14.6	25	20Ø/1	12.3,4
AHU-304	GOODMAN	MBR0800	-	24.0	800	0.50	HKR-Ø	Ø.0	1.0	3Ø	40	20Ø/1	HP-304	6Ø214-024	14.0	14.6	25	20Ø/1	12.3,4
AHU-305	GOODMAN	MBR0800	-	24.0	800	0.50	HKR-Ø	Ø.0	1.0	3Ø	40	20Ø/1	HP-305	6Ø214-024	14.0	14.6	25	20Ø/1	12.3,4
AHU-306	GOODMAN	MBR0800	-	24.0	800	0.50	HKR-Ø	Ø.0	1.0	3Ø	40	20Ø/1	HP-306	6Ø214-024	14.0	14.6	25	20Ø/1	12.3,4
AHU-307	GOODMAN	MBR0800	-	24.0	800	0.50	HKR-Ø	Ø.0	1.0	3Ø	40	20Ø/1	HP-307	6Ø214-024	14.0	14.6	25	20Ø/1	12.3,4
AHU-308	GOODMAN	MBR0800	-	24.0	800	0.50	HKR-Ø	Ø.0	1.0	3Ø	40	20Ø/1	HP-308	6Ø214-024	14.0	14.6	25	20Ø/1	12.3,4
AHU-311	GOODMAN	MBR0800	90	24.0	800	0.50	HKR-Ø	Ø.0	1.0	3Ø	40	20Ø/1	HP-311	6Ø214-024	14.0	14.6	25	20Ø/1	12.3,4
AHU-401	GOODMAN	MBR0800	-	24.0	800	0.50	HKR-Ø	Ø.0	1.0	3Ø	40	20Ø/1	HP-401	6Ø214-024	14.0	14.6	25	20Ø/1	12.3,4
AHU-402	GOODMAN	MBR0800	-	24.0	800	0.50	HKR-Ø	Ø.0	1.0	3Ø	40	20Ø/1	HP-402	6Ø214-024	14.0	14.6	25	20Ø/1	12.3,4
AHU-403	GOODMAN	MBR0800	-	24.0	800	0.50	HKR-Ø	Ø.0	1.0	3Ø	40	20Ø/1	HP-403	6Ø214-024	14.0	14.6	25	20Ø/1	12.3,4
AHU-404	GOODMAN	MBR0800	-	24.0	800	0.50	HKR-Ø	Ø.0	1.0	3Ø	40	20Ø/1	HP-404	6Ø214-024	14.0	14.6	25	20Ø/1	12.3,4

NOTES:

- PROVIDE 3/4" CONDENSATE DRAIN LINE WITH 2' DEEP TRAP. ROUTE TO ADJACENT FLOOR DRAIN.
- PROVIDE AHU WITH WALL HANGING BRACKET BY UNIT MANUFACTURER OR FIELD FABRICATE.
- PROVIDE AHU WITH INTEGRAL DISCONNECT SWITCH.
- PROVIDE PROGRAMMABLE THERMOSTAT TYPICAL OF HONEYWELL VISION PRO 8000.

GENERAL NOTES:

- CHANGE FILTER AFTER UNIT START-UP, DURING FINISH WORK AND FINAL PUNCH. DO NOT OPERATE UNITS DURING DRYWALL SANDING.
- PROVIDE A SECONDARY DRAIN PAN FOR ALL COOLING COILS AND ROUTE 3/4" CONDENSATE LINE TO ADJACENT FLOOR DRAIN, INDEPENDENT OF PRIMARY CONDENSATE DRAIN.
- UNIT MANUFACTURER SHALL MAKE COOLING COIL SELECTION, UNIT MANUFACTURER AND INSTALLING CONTRACTOR SHALL SIZE REFRIGERANT PIPING FOR THE FINAL FIELD ROUTING, ELEVATION CHANGES AND CONDENSER LOCATIONS. PROVIDE TRAPS INCLUDING INVERTED LIQUID OIL TRAP AT INDOOR EVAPORATOR COIL, TXV, ADDITIONAL REFRIGERANT, LOW VOLTAGE STARTER KIT, OFF CYCLE TIMER, CRANKCASE HEATER AND ACCUMULATOR AS REQUIRED FOR PROPER OPERATION OF THE SYSTEM.
- PROVIDE A MINIMUM 3/8" LIQUID REFRIGERANT LINES ON ALL SYSTEMS.
- COOLING LOADS BASED ON 105 DEGREES F AMBIENT TEMPERATURE.
- COOLING MBH INDICATES THE MINIMUM NET COOLING MBH REQUIRED FROM UNIT AT CFM LISTED IN SCHEDULE.
- KW OUT INDICATES THE MINIMUM NET HEATING KW REQUIRED FROM UNIT.
- MAXIMUM LINE LENGTH PER MANUFACTURERS REQUIREMENTS.
- AIR HANDLER COILS SHALL BE ALUMINUM.

ELECTRIC WALL HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	KW	V/PH	MCA	MOCP	NOTES
EWH-01	G-MARK	CWHB50BF	4.Ø	20Ø/1	2Ø.Ø	30	1

NOTES:

- PROVIDE WITH MANUFACTURER'S SURFACE MOUNTING FRAME.

GENERAL NOTES (APPLY TO ALL ABOVE):

- PROVIDE WITH INTEGRAL THERMOSTAT AND DISCONNECTING MEANS

GRILLE, REGISTER, & DIFFUSER SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	FACE SIZE	NECK SIZE	DAMPER	NOTES
S1	US AIRE	102M	SUPPLY	"SEE PLAN"	"SEE PLAN"	YES	1,2
S2	TITUS	30IRS	SUPPLY	12x12	"SEE PLAN"	YES	1,2
R1	US AIRE	1400	RETURN	"SEE PLAN"	-	NO	

NOTES:

- PROVIDE WITH RUSKIN CFDTT CEILING FIRE DAMPER UL CLASSIFIED FOR WOOD TRUSS CONSTRUCTION. DAMPER SIZE SHALL BE SAME AS DIFFUSER FACE SIZE. SHALL ONLY APPLY WHEN PENETRATING A FIRE-RATED ASSEMBLY. PROVIDE SINGLE DEFLECTION GRILLE.
- PROVIDE WITH MANUFACTURER'S INTEGRAL VOLUME CONTROL DAMPER.

GENERAL NOTES (APPLY TO ALL ABOVE):

- PROVIDE MOUNTING FRAME TO MATCH CEILING TYPE. VERIFY WITH ARCHITECT'S PLANS PRIOR TO ORDERING.
- MAXIMUM NG OF 30 FOR ALL GRILLES, REGISTERS, AND DIFFUSERS.
- WHERE NOT NOTED, DIFFUSER NECK SIZE SHALL BE THE SAME AS THE BRANCH DUCT SIZE.
- UNLESS NOTED OTHERWISE, COLOR SHALL BE STANDARD WHITE.

FAN SCHEDULE

MARK	MANUFACTURER	MODEL	CFM	S.P.	DRIVE	BHP	HP	RPM	dBA	V/PH	NOTES
EF-1	BROAN	AEB0L	50	0.25	DIRECT	26.9 W	--	-	2Ø	120/1	1, 2
EF-2	LOREN COOK	6C-186	200	0.1	DIRECT	19.6 W	--	1100	50	120/1	1,2

NOTES:

- PROVIDE WITH FACTORY INSTALLED AND WIRED DISCONNECT.
- PROVIDE WITH BROAN RDMI RADIATION DAMPER.



ARCHITECTURAL CORPORATION
OKLAHOMA CERTIFICATE
OF AUTHORITY NO. CA 02479

TIMBER RIDGE COTTAGES
SECTION 8, TOWNSHIP 18, RANGE 15
BROKEN ARROW, WAGONER COUNTY, OKLAHOMA

STARK WILSON DUNCAN ARCHITECTS INC.
3115 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T: 816.531.1698 F: 816.531.1976



APARTMENT
MECHANICAL
SCHEDULES

ISSUE DATE:
OCTOBER 18, 2019
REVISIONS:

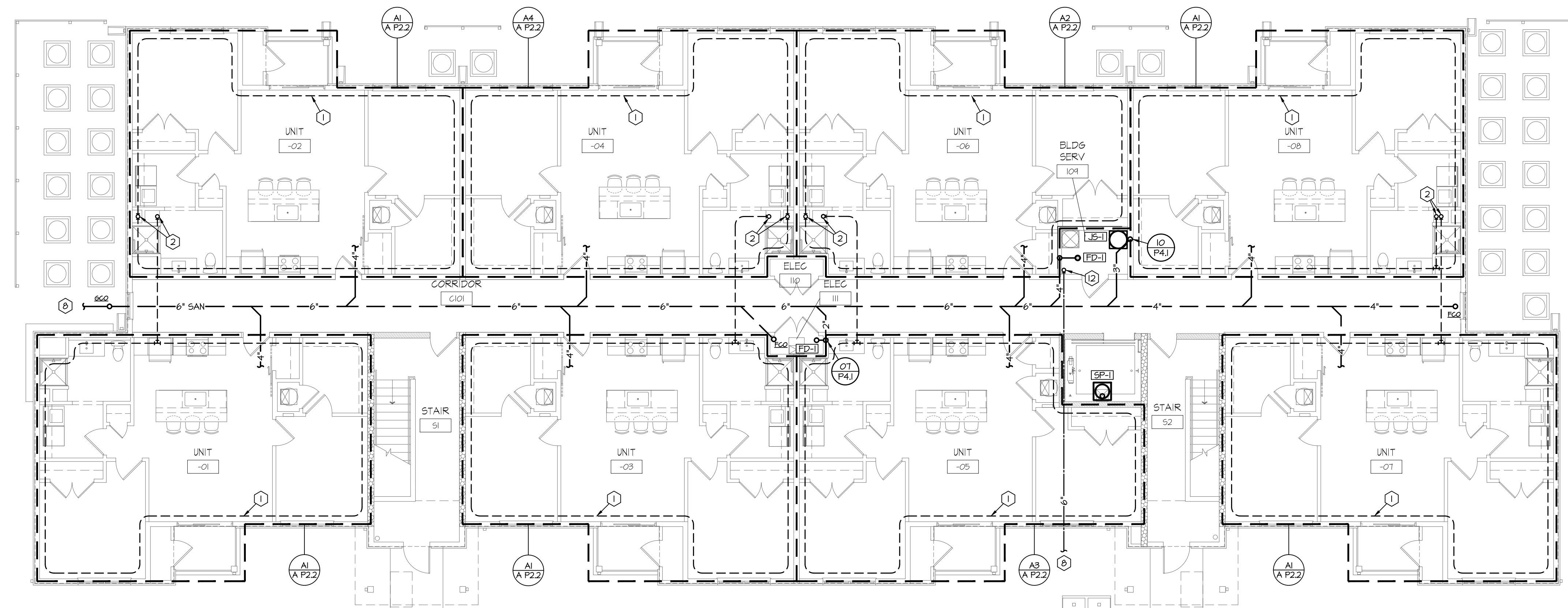


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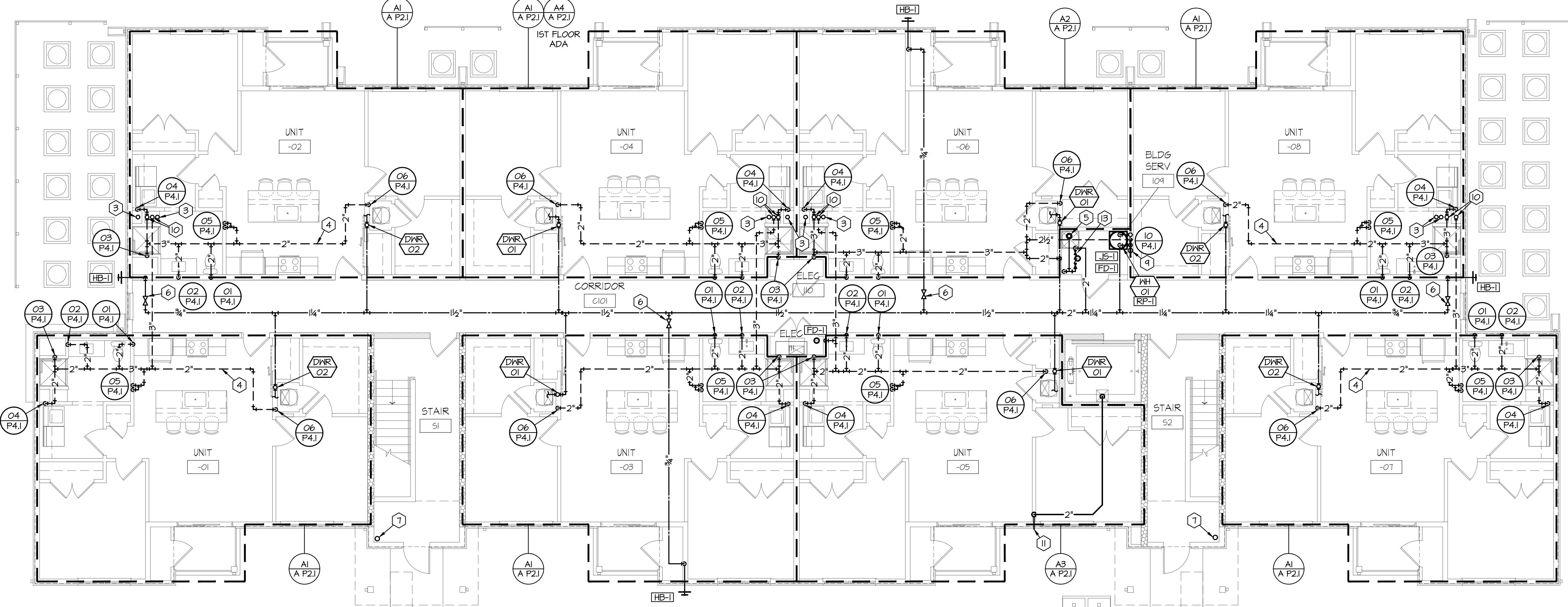
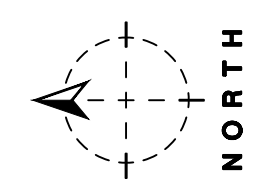
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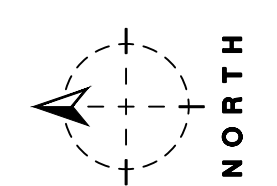
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A2 BELOW GRADE PLUMBING PLAN
SCALE: 1/8" = 1'-0"



A1 ABOVE GRADE PLUMBING PLAN
SCALE: 1/8" = 1'-0"



GENERAL NOTES:

- A. THESE DRAWINGS ARE DIAGNOSTIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE PLUMBING SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING ALL NECESSARY COMPONENTS AND OFFSETS WHICH ARE REQUIRED DUE TO SPACE CONSTRAINTS OR OTHER CONDITIONS.
- B. REFER TO THE ARCHITECTURAL PLANS FOR THE EXACT LOCATIONS OF PLUMBING FIXTURES.
- C. COORDINATE THE INSTALLATION OF PLUMBING AND PIPING WITH THE WORK OF ALL OTHER TRADES.
- D. WHERE WALL MOUNTED FLUSH VALVE SENSORS ARE USED, THE PLUMBING CONTRACTOR SHALL COORDINATE THE LOCATION OF THE SENSORS WITH THE ELECTRICAL AND ARCHITECTURAL TRADES TO AVOID CONFLICTS WITH GRAB BARS OR ANY OTHER ACCESSORIES.
- E. PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT OR PANELS. PROVIDE THE CODE REQUIRED WORKING CLEARANCE AROUND ALL ELECTRICAL EQUIPMENT AND PANELS.
- F. THE CONTRACTOR SHALL NOT LOCATE PIPING BELOW DUCT MOUNTED AIR TERMINAL UNITS, TERMINAL HEATING COILS, OR OTHER EQUIPMENT.
- G. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL PLUMBING SYSTEMS.
- H. COORDINATE THE SHUT DOWN OF ANY EXISTING SERVICES AND/OR EQUIPMENT WITH THE OWNER'S REPRESENTATIVE.
- I. PLUMBING VENT PIPING THROUGH THE ROOF SHALL BE LOCATED A MINIMUM OF 10'-0" AWAY FROM ANY FRESH AIR INTAKE LOCATION AND A MINIMUM OF 10' CLEAR FROM THE INSIDE FACE OF THE PARAPET.
- J. PROVIDE THE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING. MINIMUM UNDERGROUND PIPE SIZE SHALL BE 2".

PLAN NOTES:

1. 4" PERFORATED PVC PIPING INSTALLED IN CENTER OF GRAVEL LAYER FOR RADON CONTROL SYSTEM. INSTALL RADON CONTROL SYSTEM IN ACCORDANCE WITH ICC IRC 2015 APPENDIX F.
2. 3" PVC PIPE UP FOR PASSIVE RADON CONTROL SYSTEM.
3. 3" PVC RISER UP THRU ROOF FOR PASSIVE RADON SUPPRESSION SYSTEM.
4. VENT PIPING IN THIS UNIT OCCURS IN THE THIRD FLOOR CEILING.
5. PROVIDE NEW FIRE SPRINKLER SERVICE ENTRANCE IN ACCORDANCE WITH THE DETAIL ON DRAWINGS. THE FIRE SPRINKLER CONTRACTOR (FSC) SHALL BE RESPONSIBLE FOR THE DESIGN LAYOUT, MATERIALS AND COMPLETE INSTALLATION OF THE ENTIRE SPRINKLER SYSTEM. THE FSC SHALL PREPARE ALL NEEDED DRAWINGS TO MEET N.F.P.A. REQUIREMENTS AND HAVE APPROVAL OF ALL LOCAL, STATE AND INSURANCE UNDERWRITING AUTHORITIES. THE SYSTEM SHALL BE TESTED UNDER PRESSURE BY THE FSC AND INSPECTED AND APPROVED BY THE LOCAL FIRE MARSHALL PRIOR TO ACCEPTANCE BY OWNER. THE FSC SHALL COORDINATE LOCATION OF THE ENTIRE SPRINKLER SYSTEM WITH ALL OTHER TRADES.
6. 3/4" COLD WATER TO HOSE BIBB. PROVIDE ACCESSIBLE SHUTOFF VALVE OR ACCESS PANEL.
7. FIRE DEPARTMENT STANDPIPE.
8. REFER TO SITE PLAN SHEET A MPELI FOR CONTINUATION.
9. REFER TO JANITOR SINK RISER DIAGRAM ON SHEET A P4.1 FOR ADDITIONAL PIPE SIZES.
10. 3" VENT THRU ROOF.
11. 2" PVC SUMP PUMP DISCHARGE. ROUTE PIPING IN CEILING TO EXTERIOR WALL AND OUT ABOVE GRADE WITH DOWNSPOUT NOZZLE 12" A.F.G.
12. COMBINED WATER/FIRE PROTECTION SERVICE UP. SEE DETAIL ON SHEET A FPI.1.
13. PROVIDE A NEW 2" REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY AT THIS LOCATION. WATER MODEL 009QT-S OR EQUIVALENT. SEE DETAIL ON DRAWINGS FOR INSTALLATION REQUIREMENTS. PROVIDE NEW DOMESTIC WATER SERVICE FROM CITY MAIN. SEE CIVIL SITE PLAN FOR MORE INFORMATION.



ARCHITECTURAL CORPORATION
OKLAHOMA CERTIFICATE
OF AUTHORITY NO. CA 02479

TIMBER RIDGE COTTAGES
SECTION 8, TOWNSHIP 18, RANGE 15
BROKEN ARROW, WAGONER COUNTY, OKLAHOMA

STARK WILSON DUNCAN ARCHITECTS, INC.
315 NICHOLS RD., STE 228 - KANSAS CITY, MO 64112 - T 816.531.1898 F 816.531.1978



APARTMENT
BUILDING
PLUMBING PLAN

ISSUE DATE:
OCTOBER 18, 2019
REVISIONS:



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Lenexa, Kansas 66214
913.382.9090 | mail@h-b.com
H&B PROJECT NUMBER: 1920580
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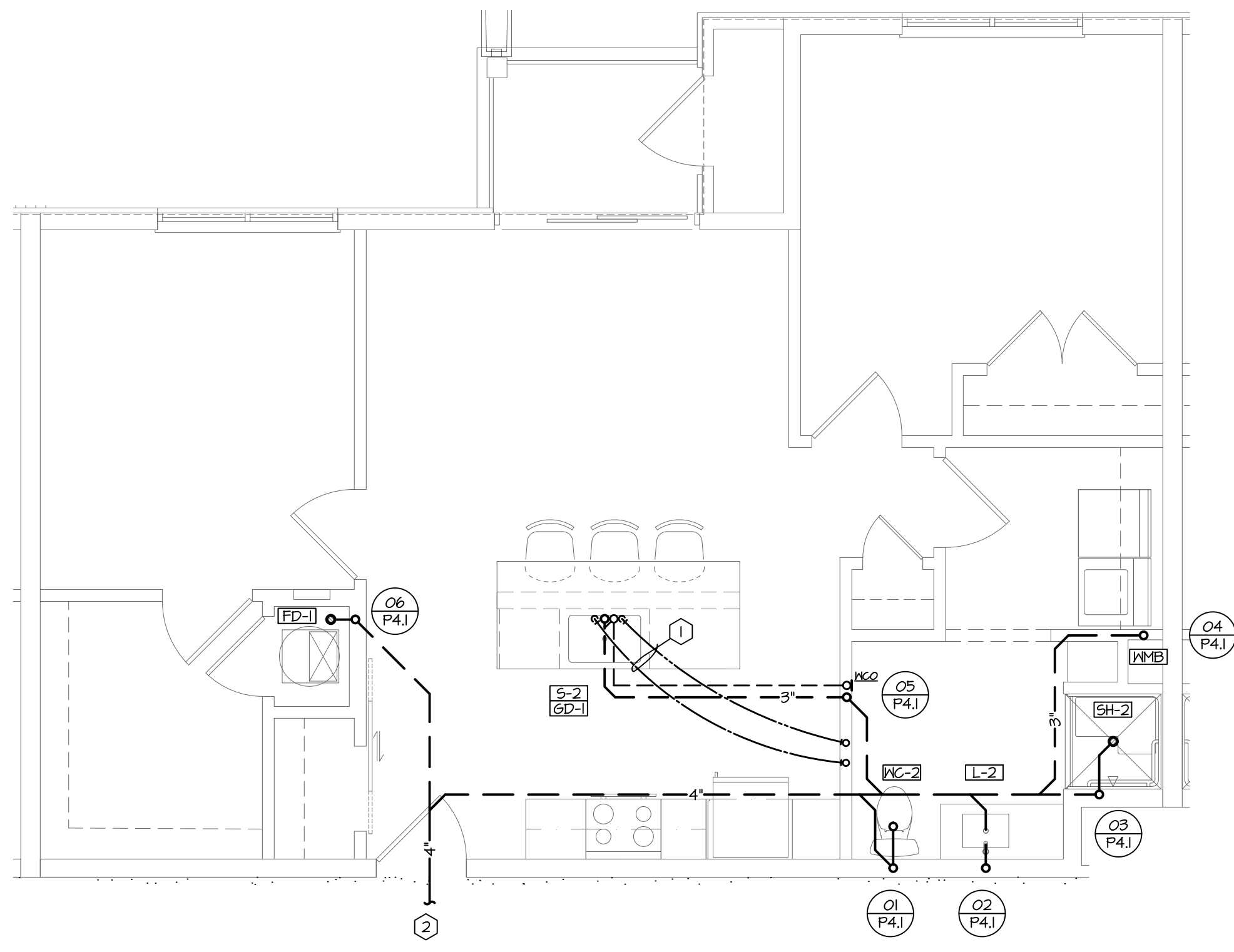
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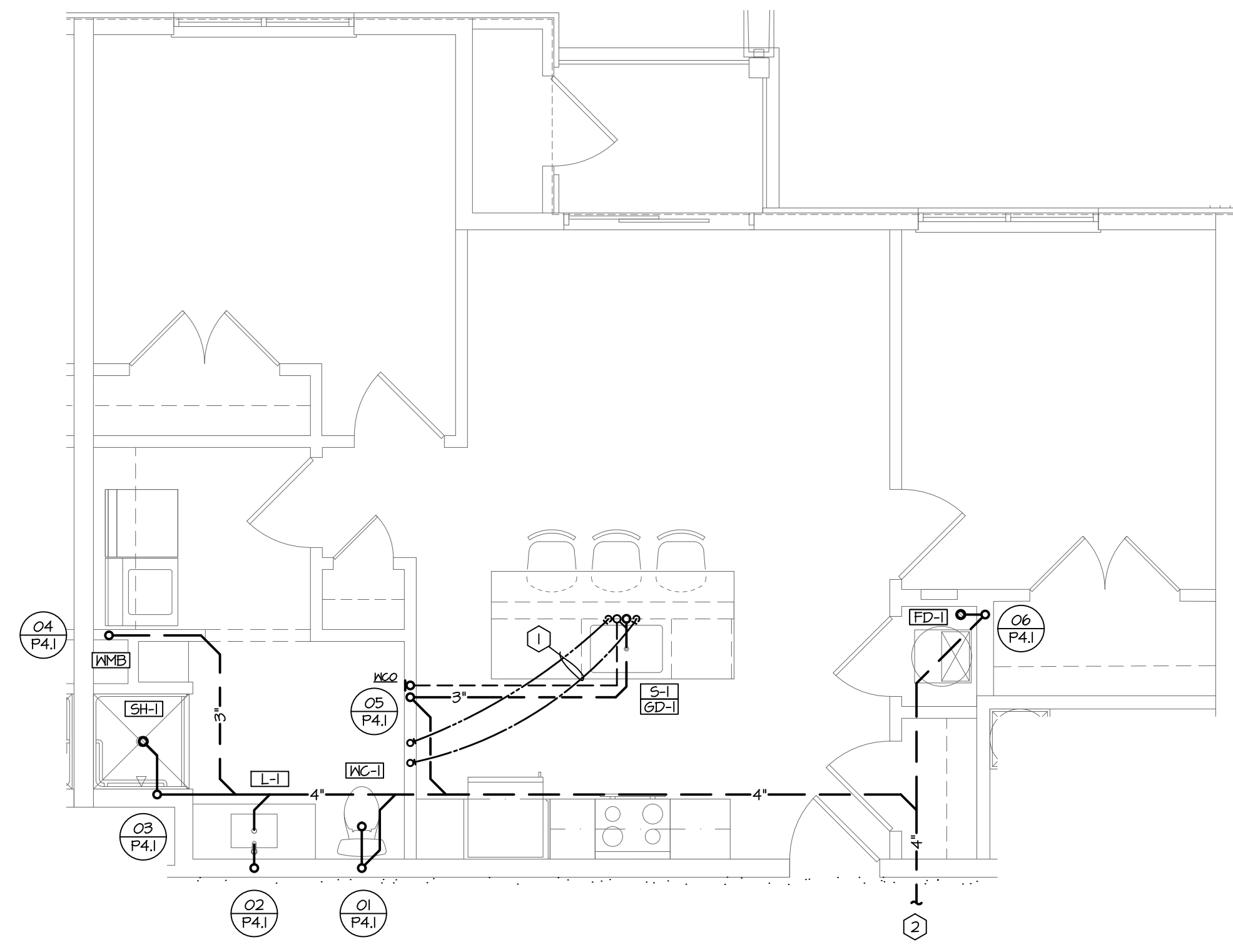
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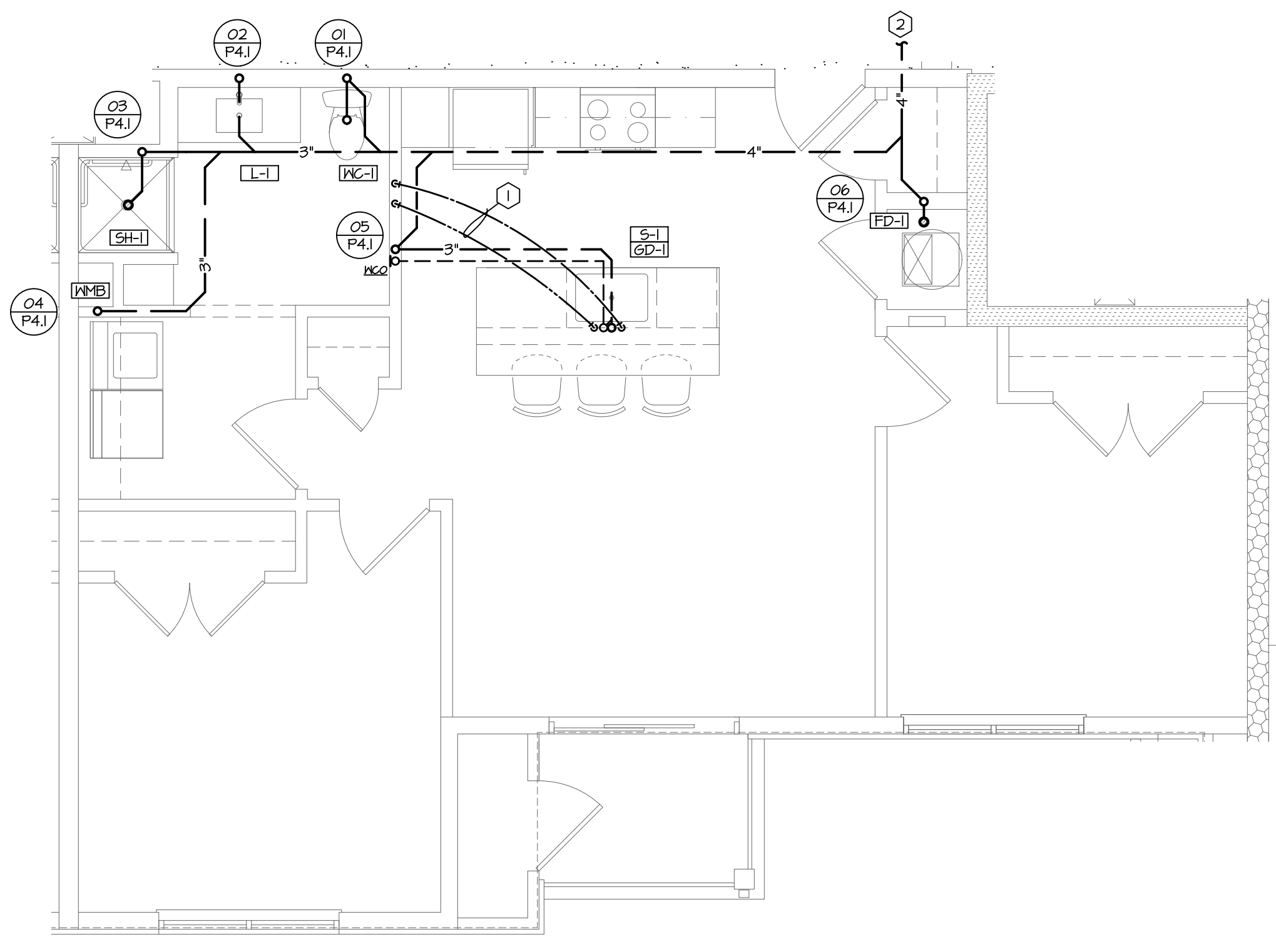
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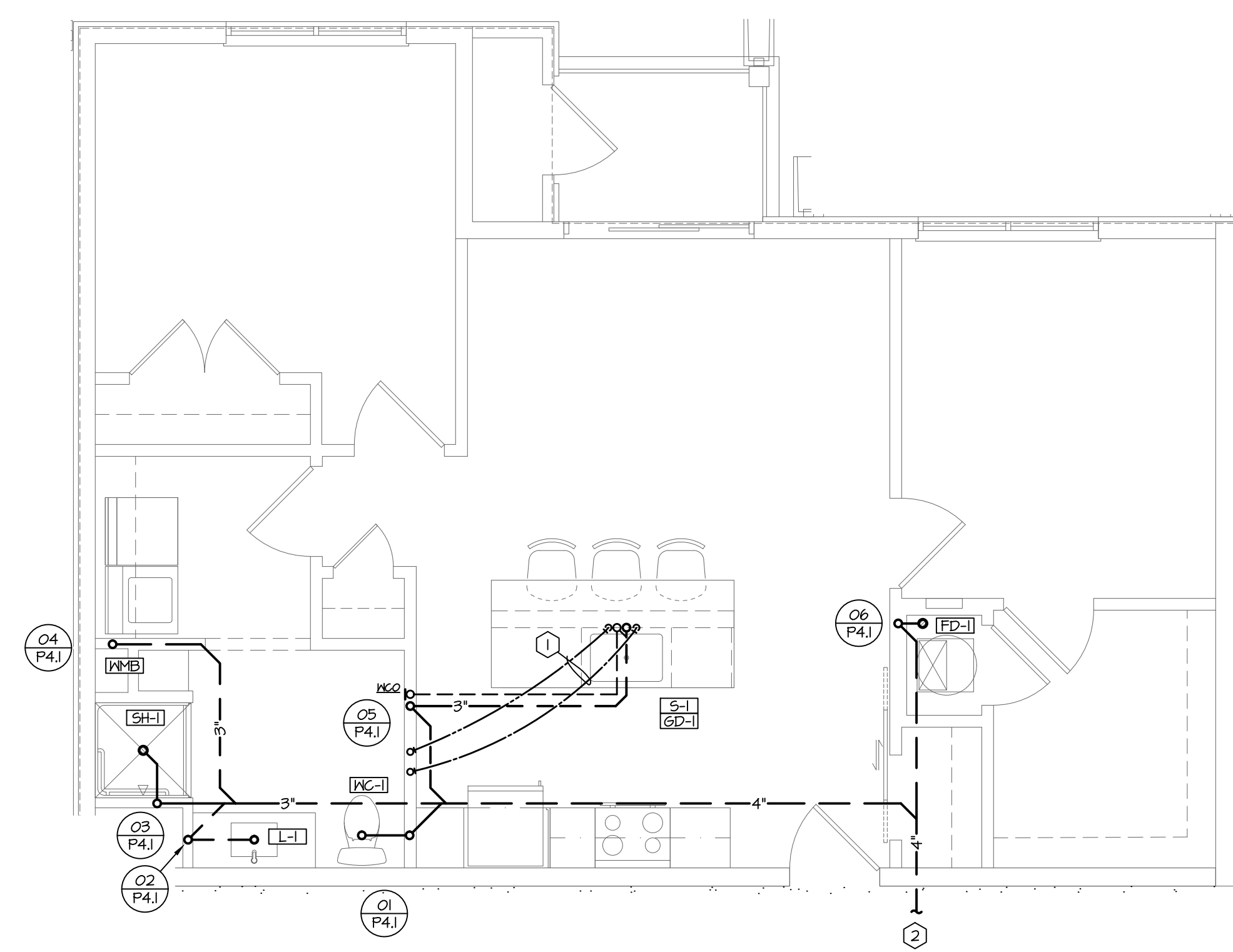
A4 ENLARGED BELOW GRADE PLUMBING PLAN - ADA
SCALE: 1/4" = 1'-0"



A2 ENLARGED BELOW GRADE PLUMBING PLAN
SCALE: 1/4" = 1'-0"



A3 ENLARGED BELOW GRADE PLUMBING PLAN
SCALE: 1/4" = 1'-0"



A1 ENLARGED BELOW GRADE PLUMBING PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

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- J. PROVIDE THE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.
- K. MINIMUM UNDERGROUND PIPE SIZE SHALL BE 2".

PLAN NOTES:

- 1. ROUTE WATER PIPING DOWN WALL TO BELOW COUNTER FOR KITCHEN SINK.
- 2. SEE A P11 FOR CONTINUATION.



ARCHITECTURAL CORPORATION
OKLAHOMA CERTIFICATE
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TIMBER RIDGE COTTAGES
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BROKEN ARROW, WAGONER COUNTY, OKLAHOMA

STARK WILSON DUNCAN ARCHITECTS INC.
315 NICHOLS RD., STE 228 - KANSAS CITY, MO 64112 - T 816.531.1998 F 816.531.1978



10/18/19
ENLARGED APARTMENT BUILDING BELOW GRADE PLUMBING PLAN
ISSUE DATE: OCTOBER 18, 2019
REVISIONS:

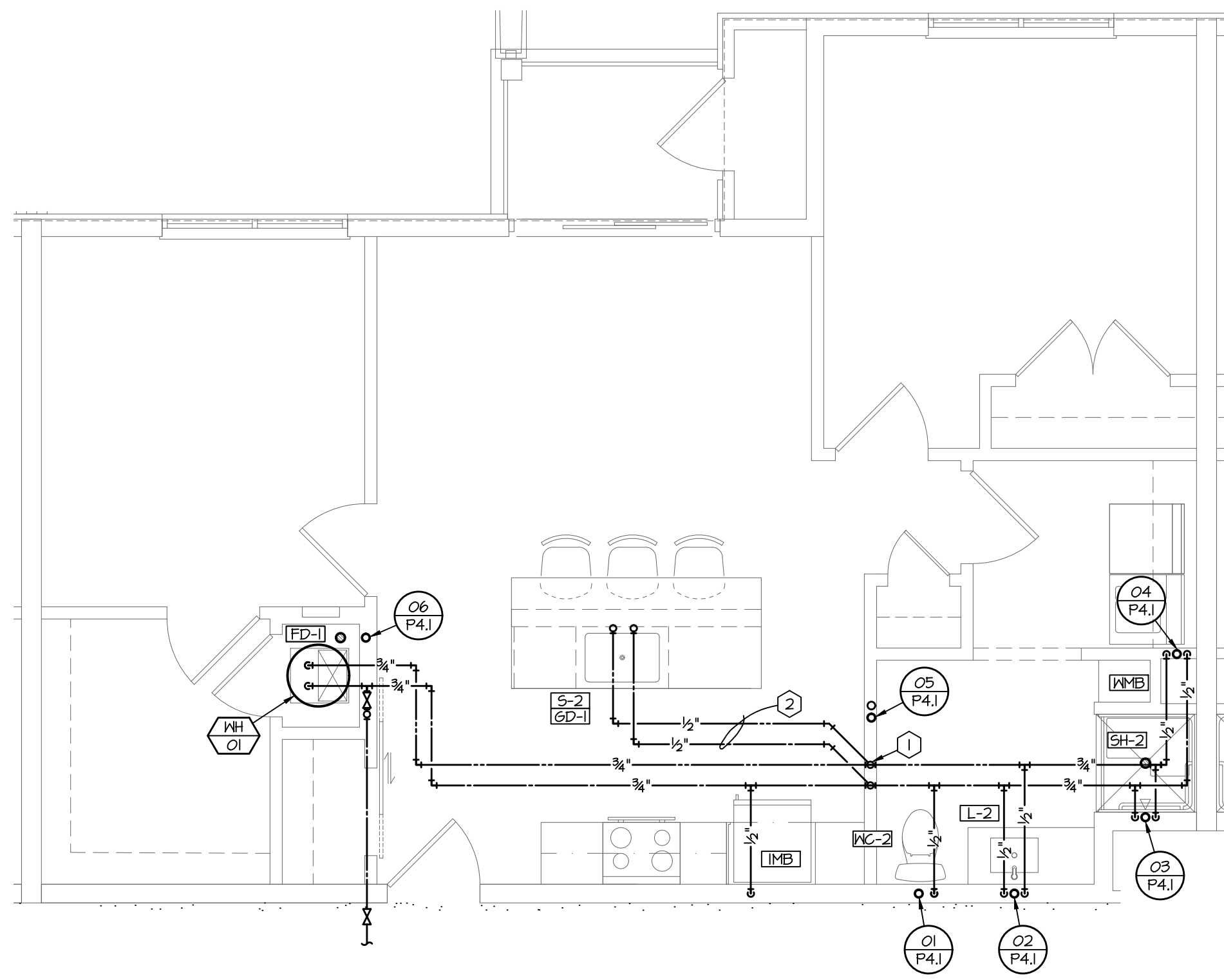


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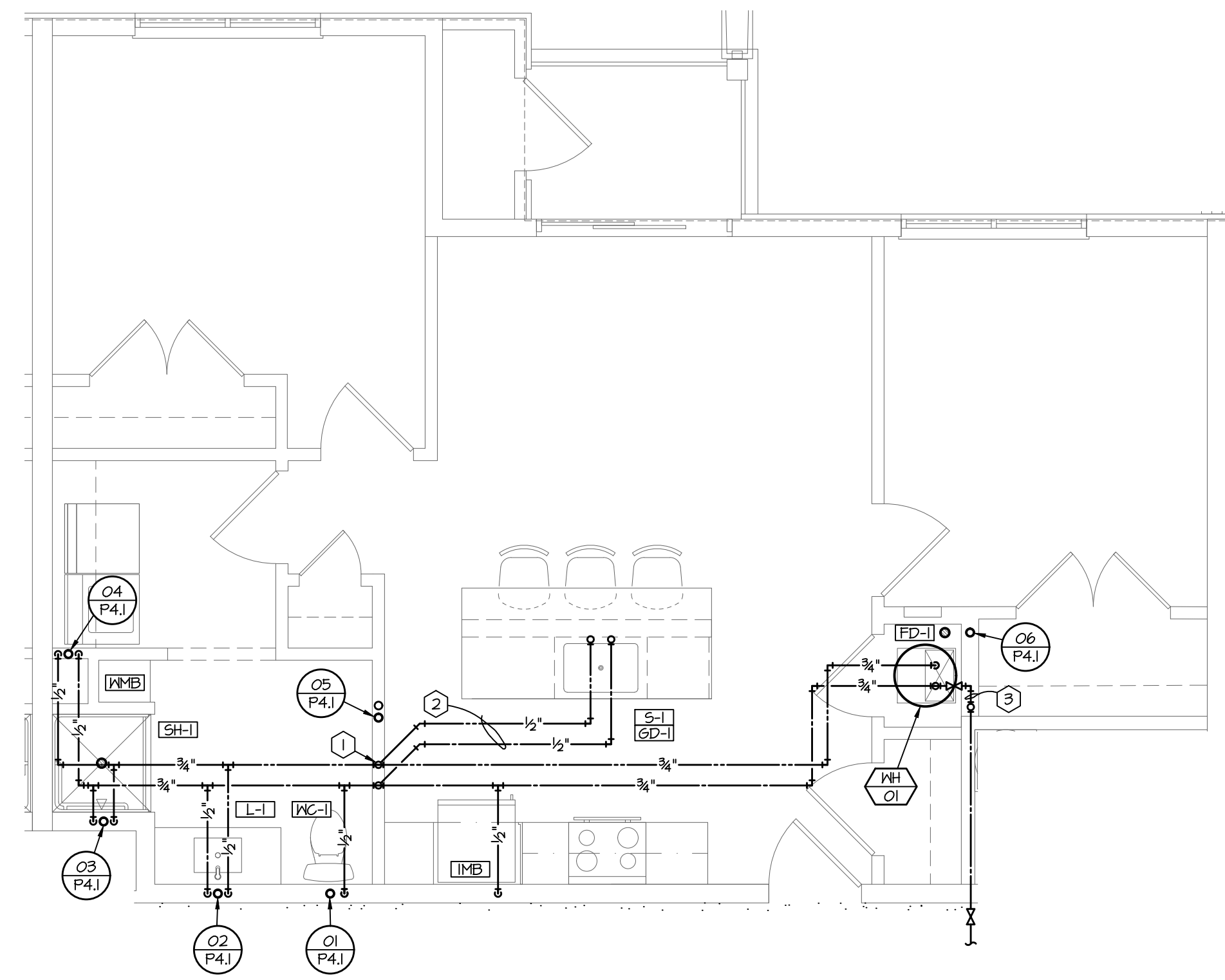
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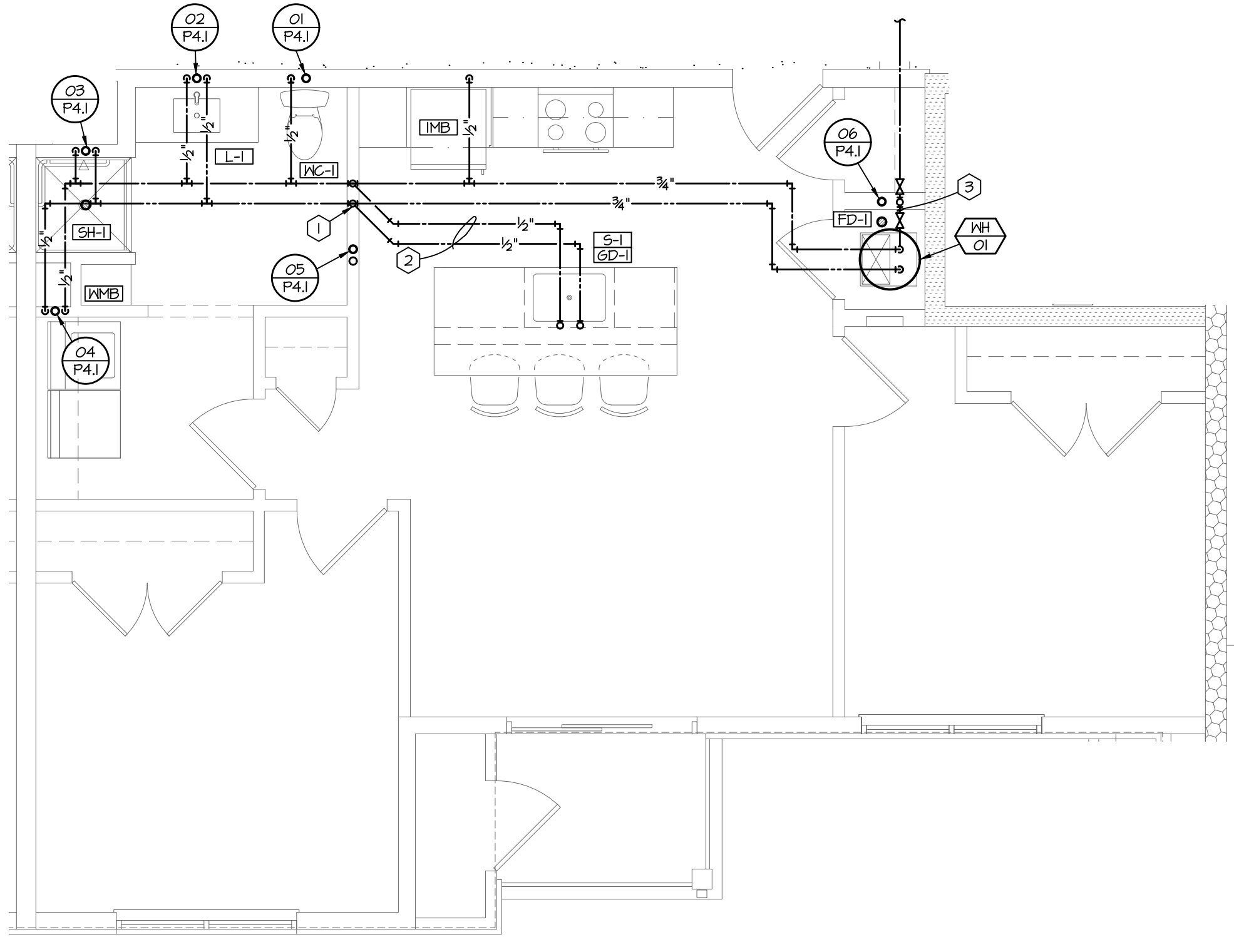
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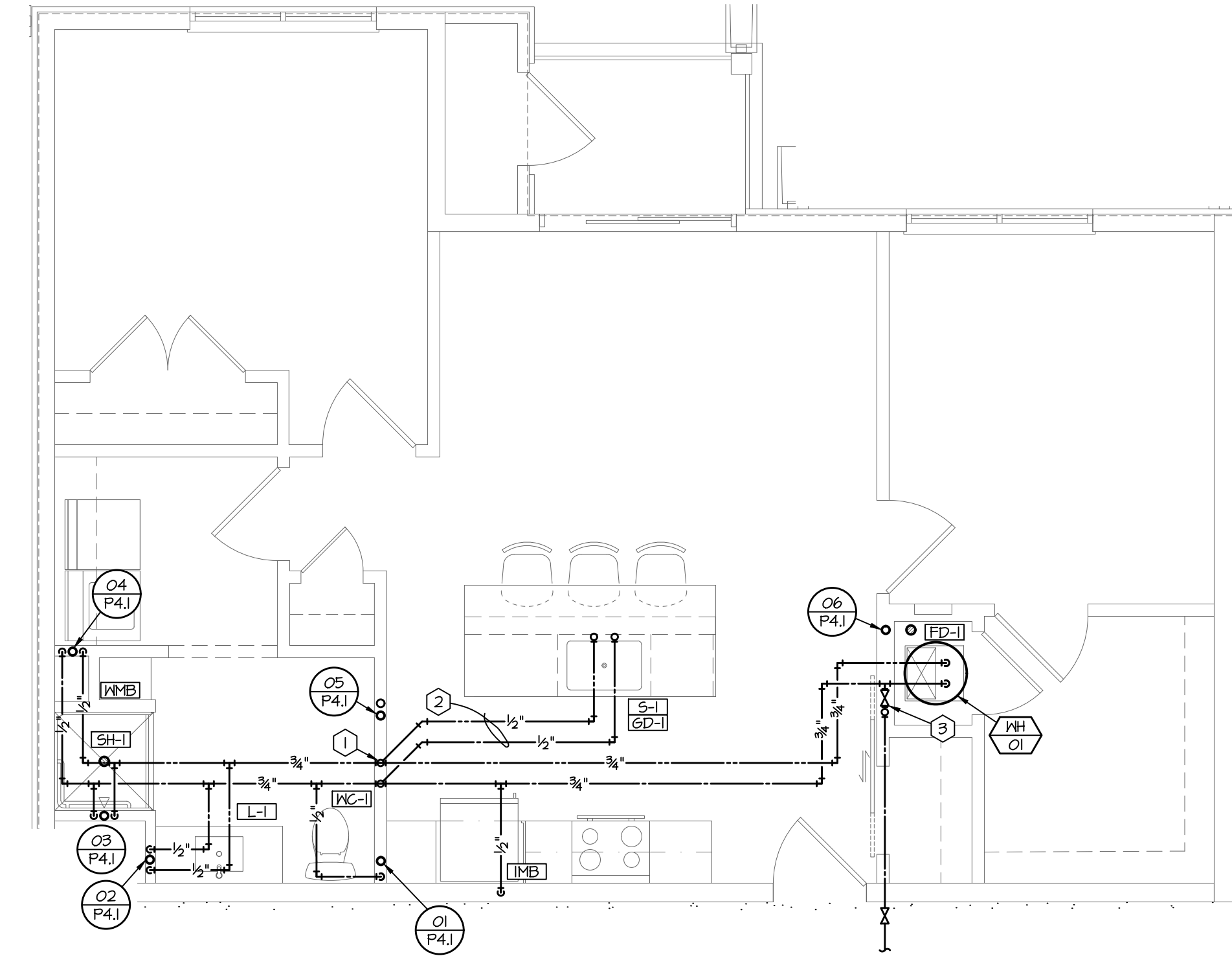
A4 ENLARGED ABOVE GRADE PLUMBING PLAN - ADA
SCALE: 1/4" = 1'-0"



A2 ENLARGED ABOVE GRADE PLUMBING PLAN
SCALE: 1/4" = 1'-0"



A3 ENLARGED ABOVE GRADE PLUMBING PLAN
SCALE: 1/4" = 1'-0"



A1 ENLARGED ABOVE GRADE PLUMBING PLAN
SCALE: 1/4" = 1'-0"

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PLAN NOTES:

- 1. ROUTE WATER PIPING DOWN IN WALL TO BELOW FLOOR SLAB THEN UP TO KITCHEN SINK IN COUNTER WALL.
- 2. ROUTE COLD AND HOT WATER IN CEILING OF FLOOR BELOW AND UP TO KITCHEN ISLAND SINK ON FLOORS 2-4.
- 3. TOP FLOOR MUST BE INSTALLED IN CEILING OF FLOOR BELOW WITH INDIVIDUAL SHUT-OFF VALVES AS SHOWN ON RISER.



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BROKEN ARROW, WAGONER COUNTY, OKLAHOMA

STARK WILSON DUNCAN ARCHITECTS, INC.
315 NICHOLS RD., STE 228 - KANSAS CITY, MO 64112 - T 816.531.1998 F 816.531.1978



ENLARGED
APARTMENT
BUILDING ABOVE
GRADE PLUMBING
PLAN
ISSUE DATE:
OCTOBER 18, 2019
REVISIONS:



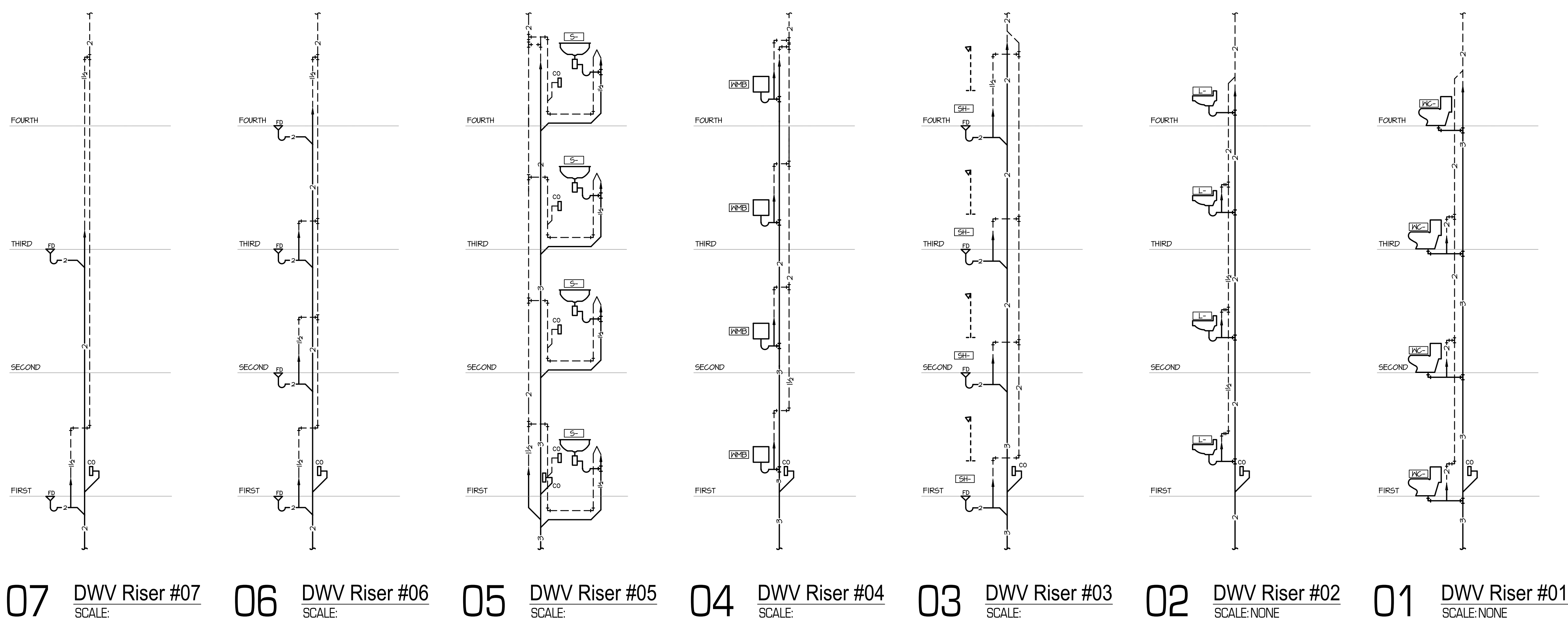
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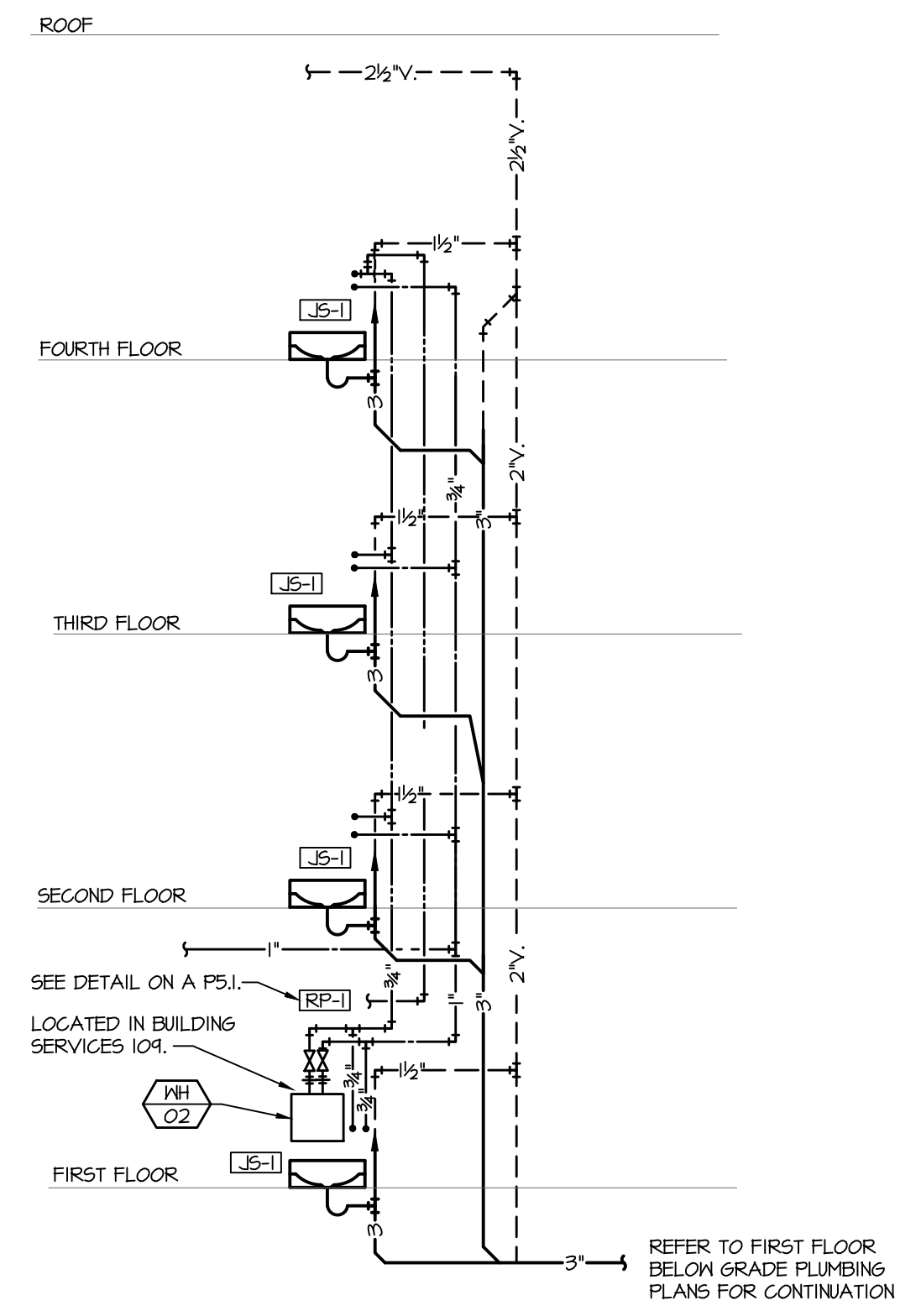
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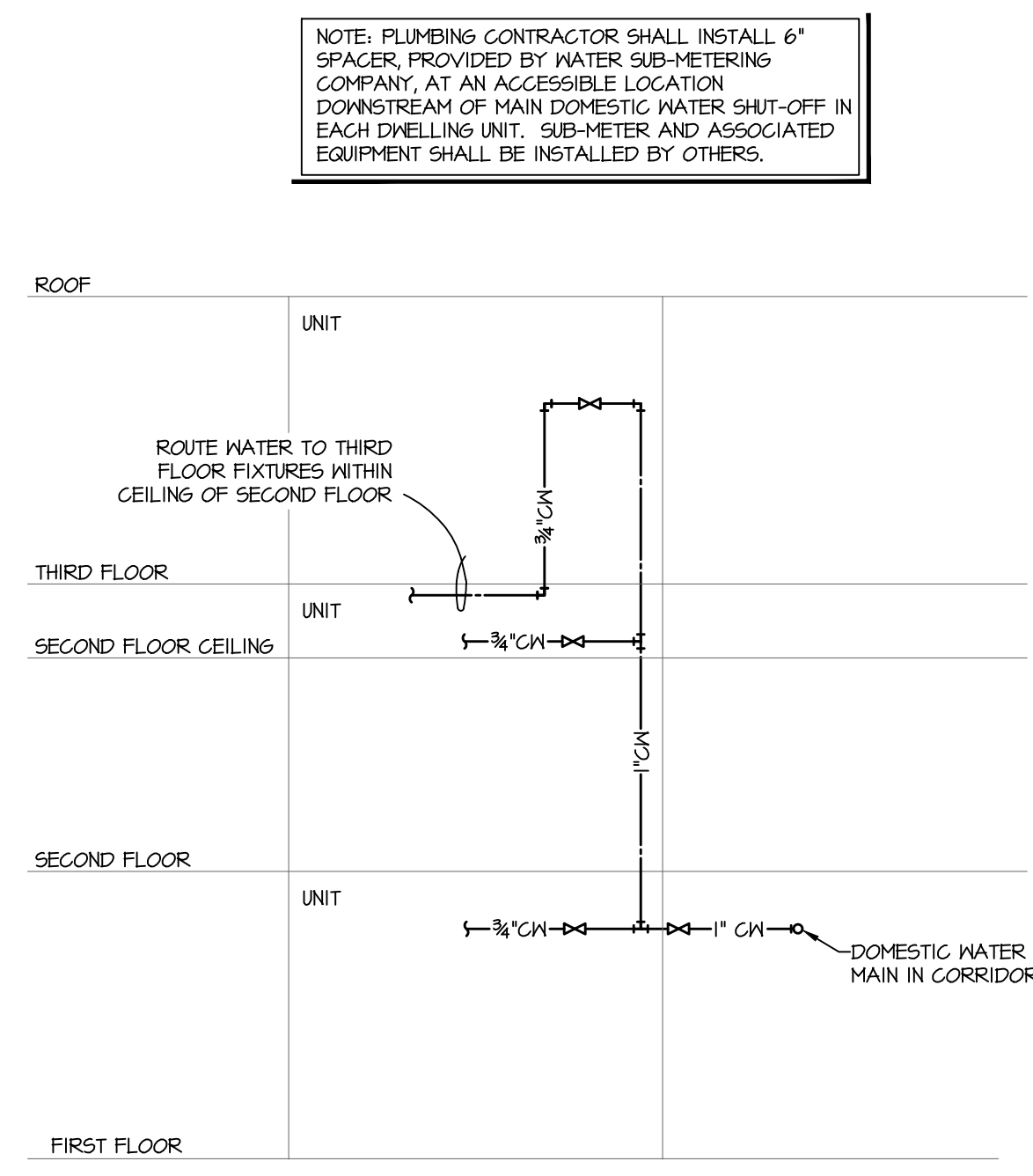
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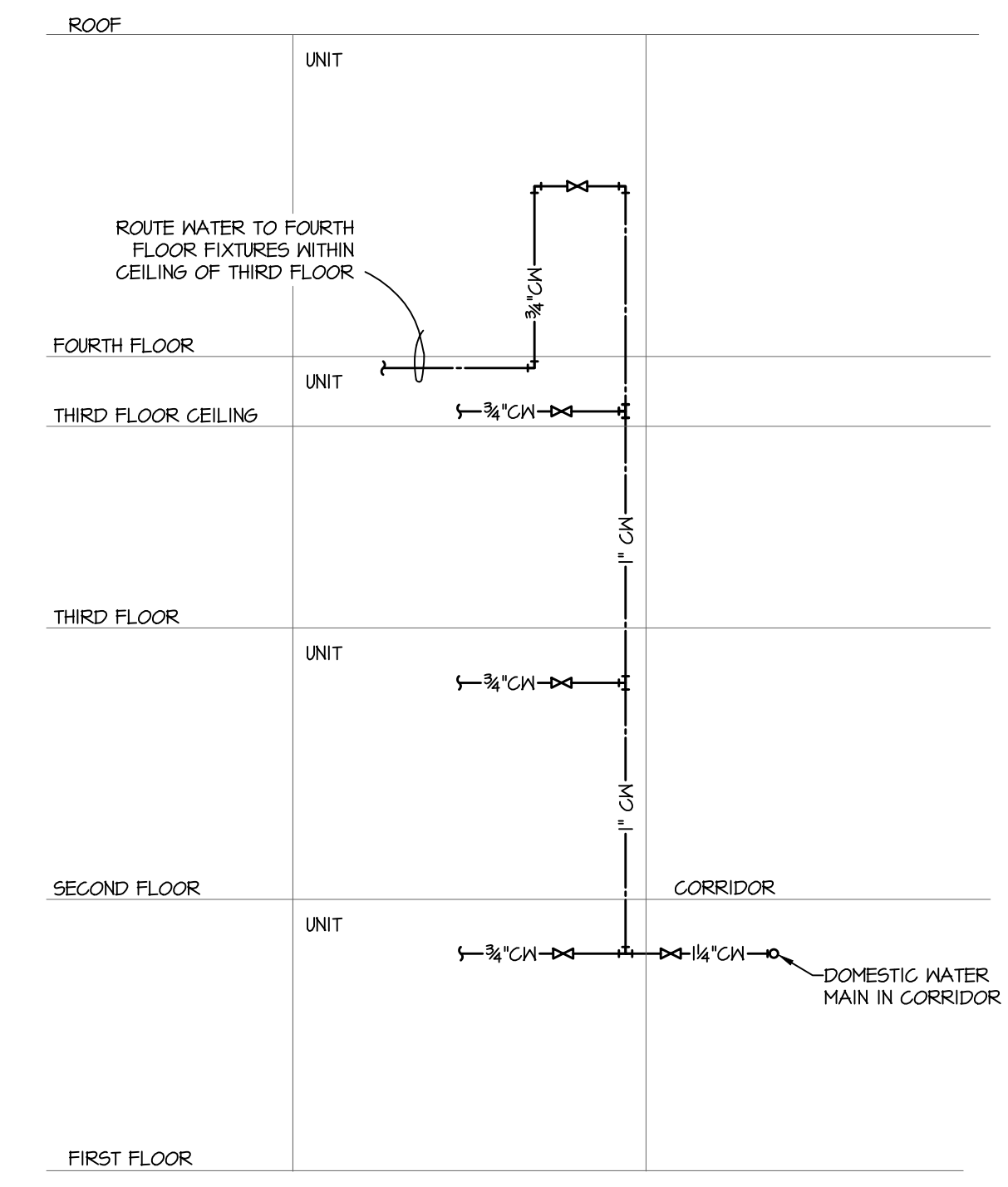
NOTE: PLUMBING CONTRACTOR SHALL INSTALL 6" SPACER, PROVIDED BY WATER SUB-METERING COMPANY, AT AN ACCESSIBLE LOCATION DOWNSTREAM OF MAIN DOMESTIC WATER SHUT-OFF IN EACH DWELLING UNIT. SUB-METER AND ASSOCIATED EQUIPMENT SHALL BE INSTALLED BY OTHERS.



10 Janitor's Sink Plumbing Riser Diagram
SCALE: NONE



09 Domestic Water Riser Diagram DWR-02
SCALE: NONE



08 Domestic Water Riser Diagram DWR-01
SCALE: NONE



ARCHITECTURAL CORPORATION
OKLAHOMA CERTIFICATE
OF AUTHORITY NO. CA 02479

TIMBER RIDGE COTTAGES
SECTION 8, TOWNSHIP 18, RANGE 15
BROKEN ARROW, WAGONER COUNTY, OKLAHOMA

STARK WILSON DUNCAN ARCHITECTS INC.
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.631.1698 F 816.531.1978



APARTMENT
PLUMBING DETAILS

ISSUE DATE:
OCTOBER 18, 2019
REVISIONS:

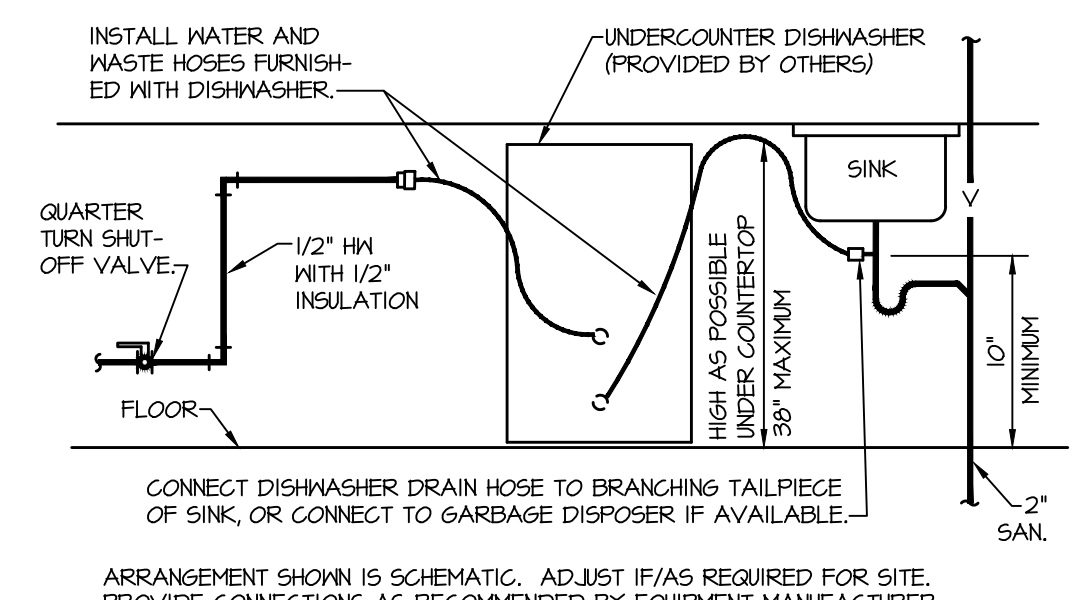


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H&B PROJECT NUMBER: 1920580
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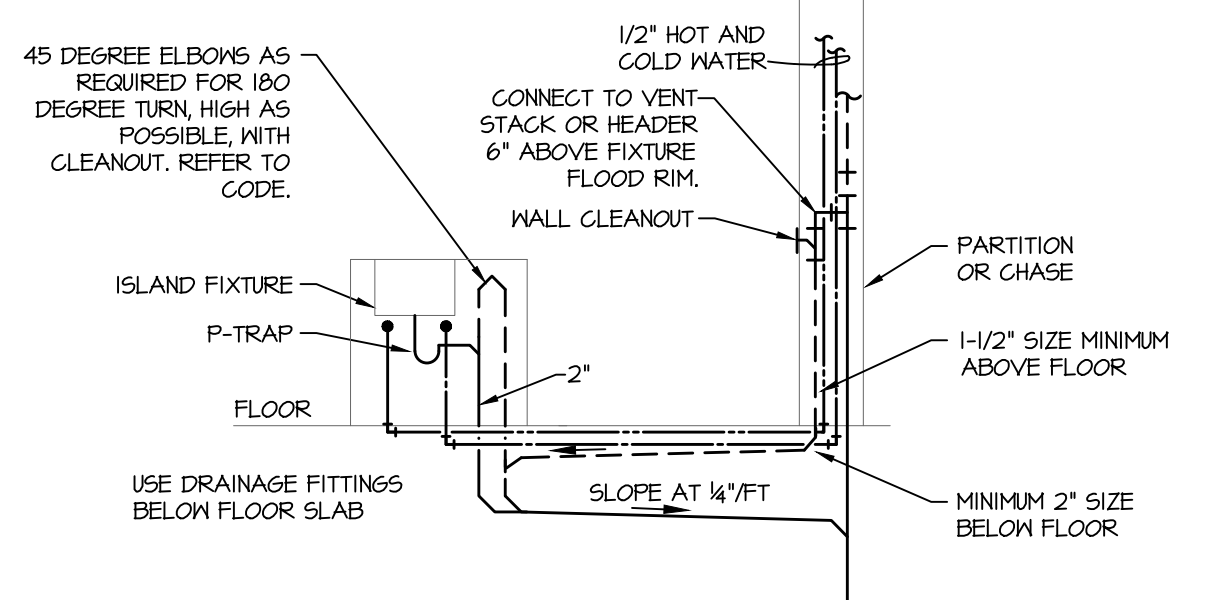
PROJECT NO.: 1902

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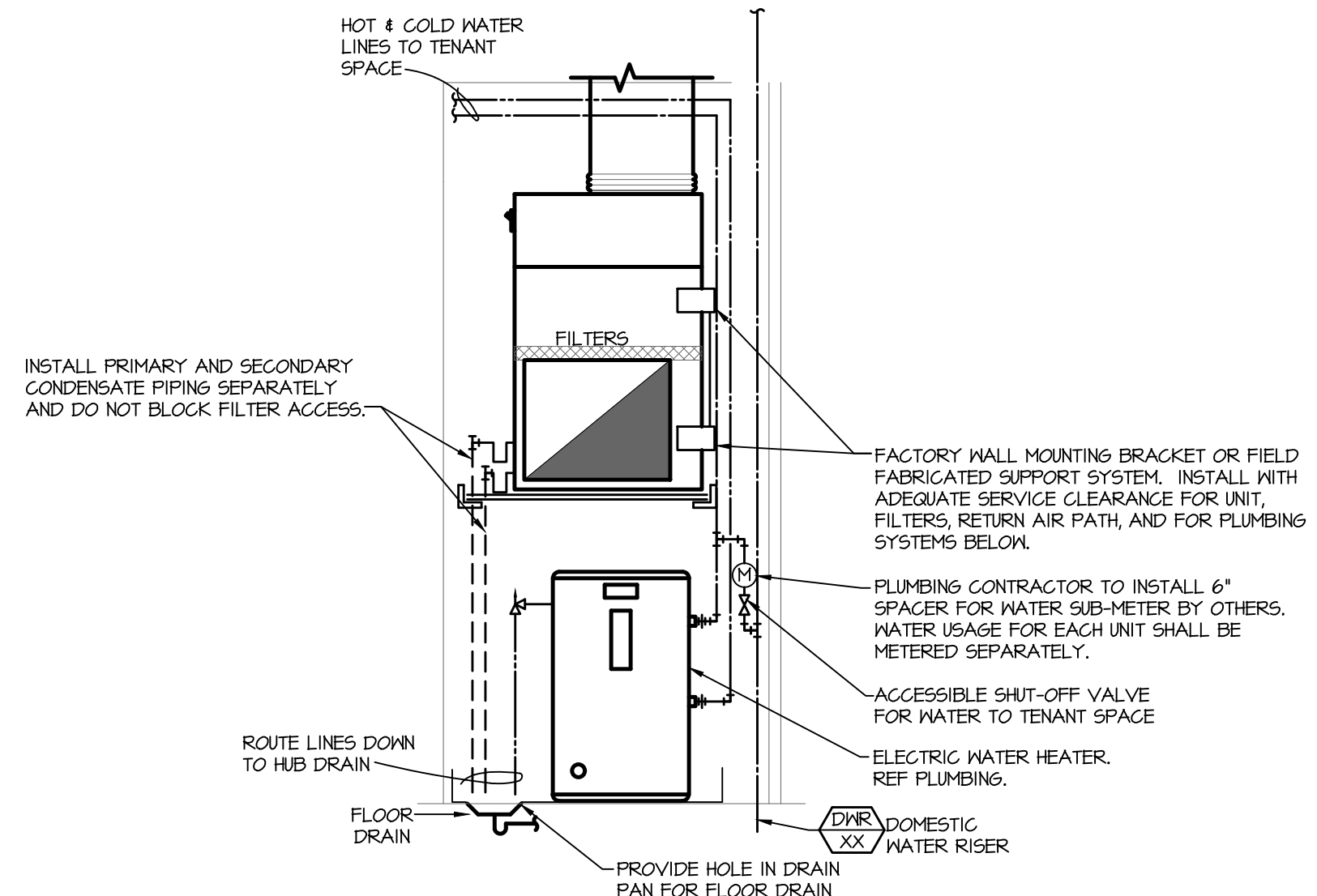
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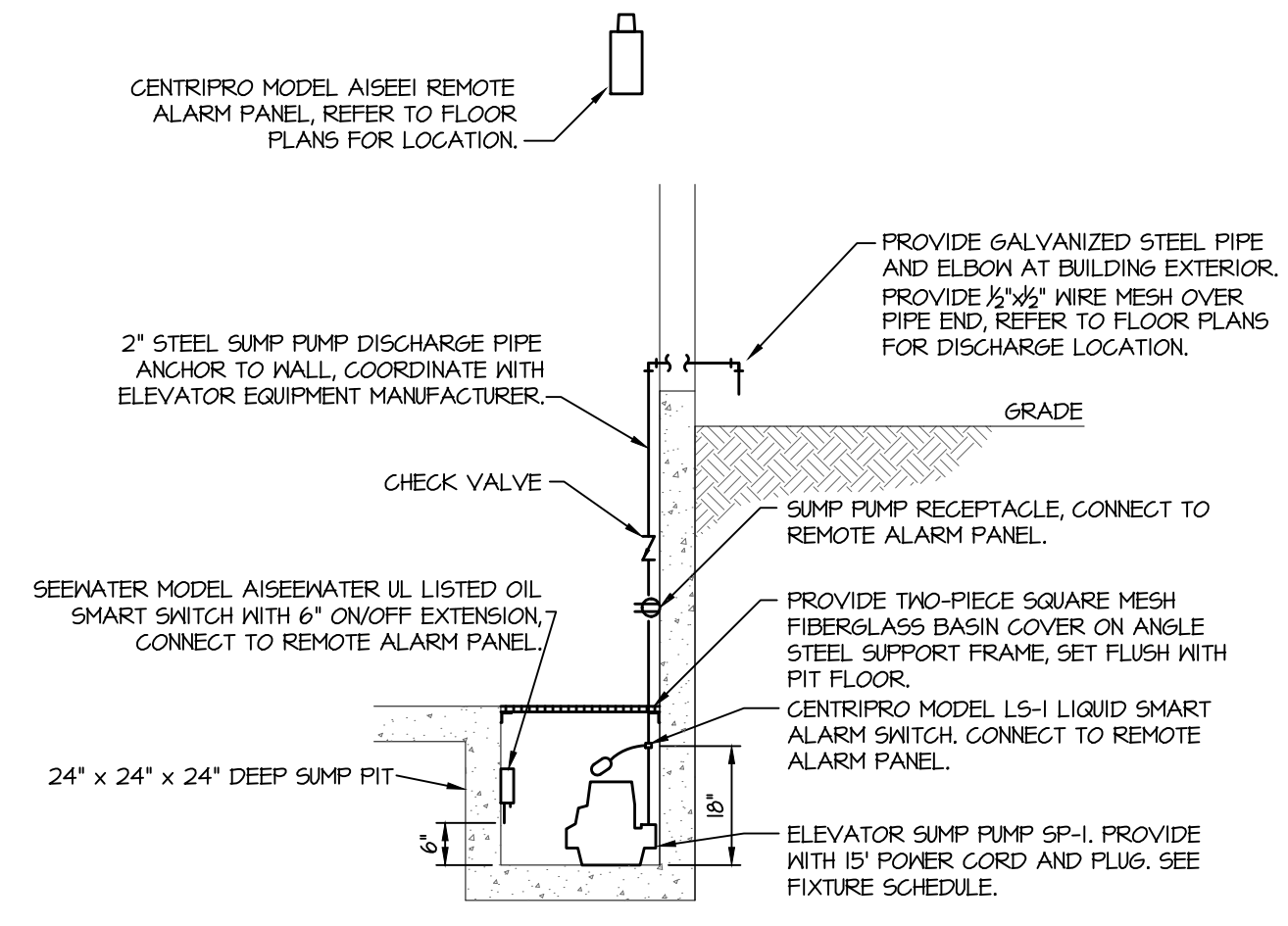
6 Dishwasher Connection Detail
Scale: Not to Scale



5 Island Fixture Vent
Scale: Not to Scale

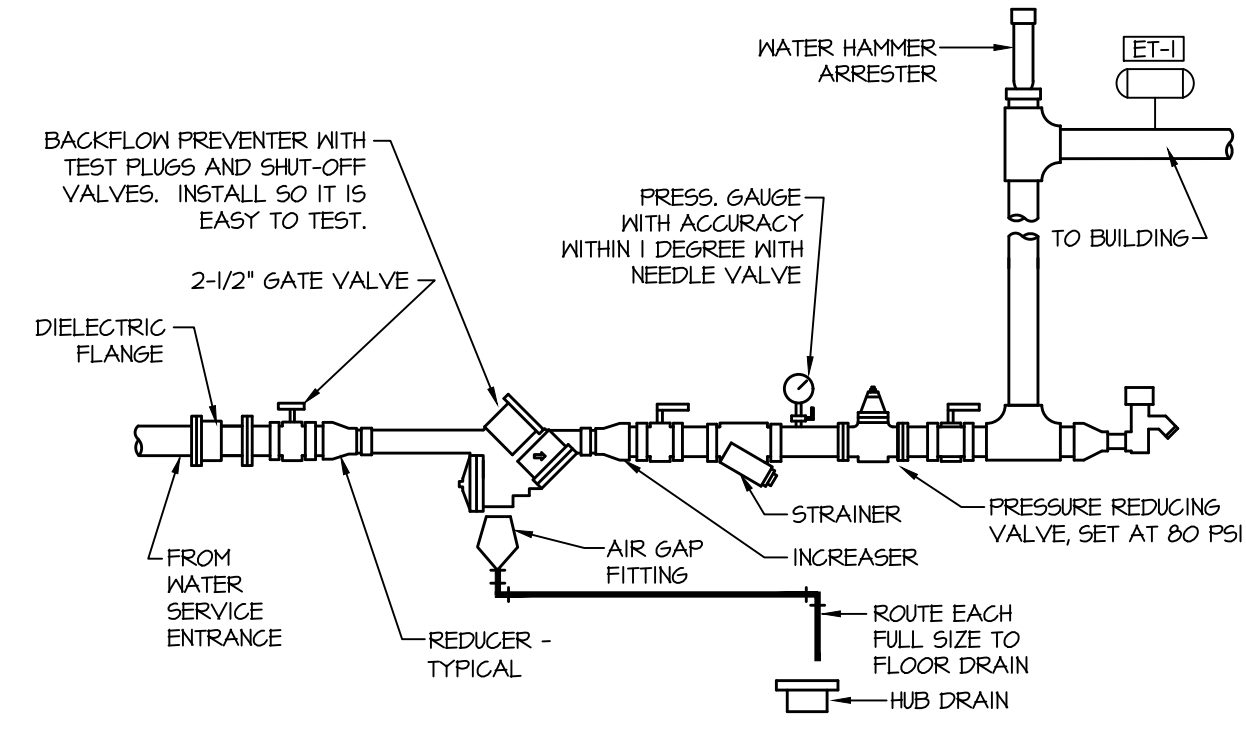


4 Typical Unit Mechanical Closet Detail
Scale: Not to Scale

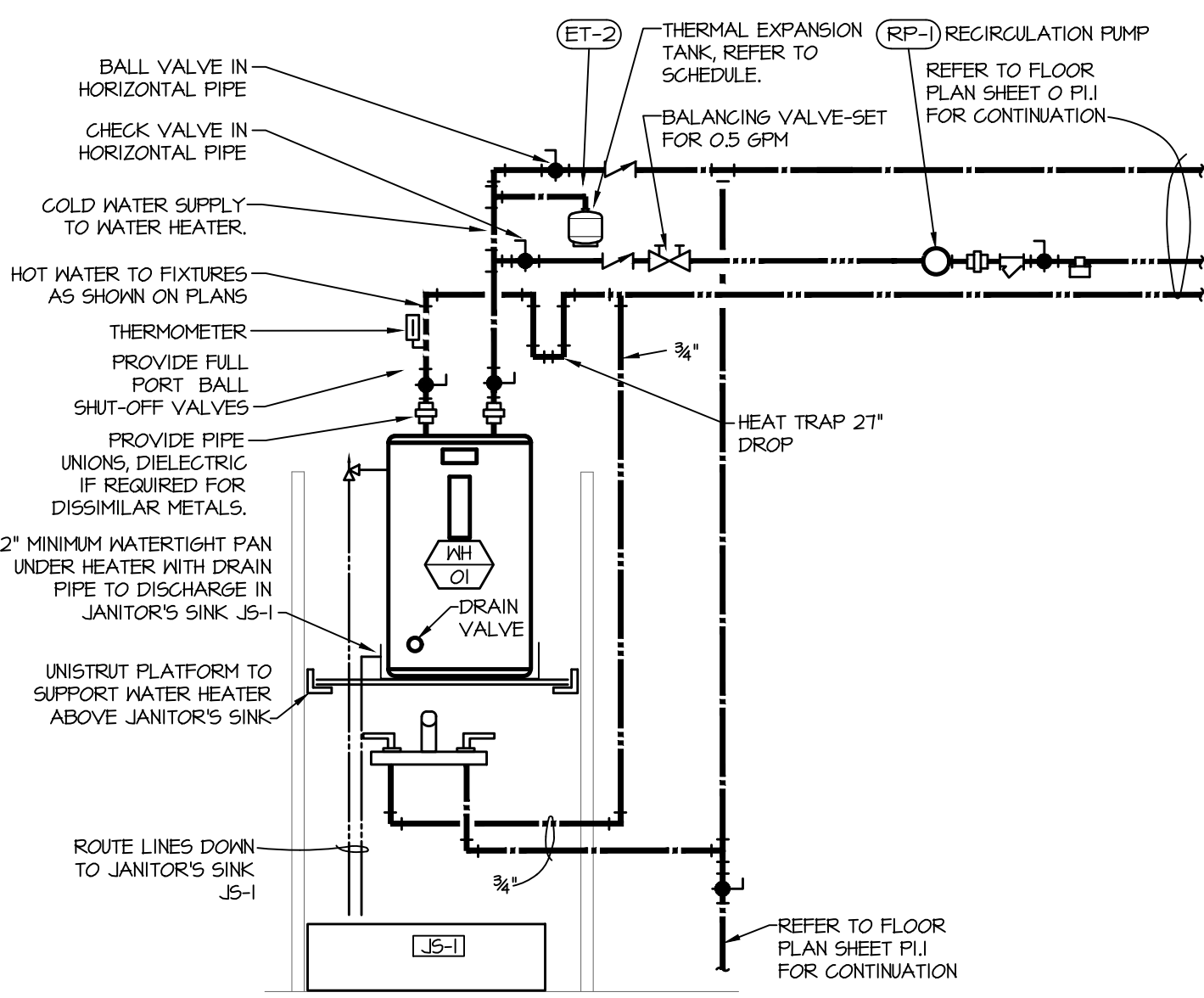


- NOTES:**
- ROUTE ALL CORDS IN AN ORDERLY FASHION AND SECURE TO WALL OR PIPING. CORDS SHALL BE INSTALLED SO THAT THEY DON'T INTERFERE WITH THE FLOAT SWITCH OPERATION OR PUMP REMOVAL.
 - COORDINATE THE ALARM PANEL, RECEPTACLE AND SUMP PUMP RECEPTACLE LOCATIONS WITH ELECTRICAL. PROVIDE FACTORY INSTALLED CORD AND PLUG WITH ALL EQUIPMENT OF SUFFICIENT LENGTH TO REACH RECEPTABLES AND ALARM PANEL. FIELD SPLICING OF CORDS IS NOT ACCEPTABLE. NEATLY COIL AND SECURE ANY EXTRA LENGTH OF CORD TO WALL.
- SEQUENCE OF OPERATION:**
- THE OIL SMART SWITCH SHALL OPERATE THE PUMP AUTOMATICALLY BY TWO INDEPENDENT SENSING POINTS, ONE FOR PUMP ON AND ONE FOR PUMP OFF. THE OIL SMART SWITCH SHALL DIFFERENTIATE BETWEEN OIL AND WATER. IF OIL IS SENSED BY THE PUMP ON PROBE THE PUMP WILL NOT OPERATE UNTIL THE PROBE IS AGAIN COVERED BY WATER.
 - A SEPARATE HIGH WATER ALARM SWITCH SHALL BE CONNECTED TO A THE ALARM PANEL. IF THE WATER LEVEL REACHES THIS SWITCH AN AUDIBLE AND VISUAL ALARM SHALL BE INITIATED AT THE ALARM PANEL.

3 Elevator Sump Pump Detail
Scale: Not to Scale



2 Domestic Water Service
Scale: Not to Scale



1 Electric Water Heater Building Service Room
Scale: Not to Scale

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	TRIM	CONNECTIONS				NOTES
					CW	HW	W	V	
WC-1	FLOOR MOUNTED FLUSH TANK WATER CLOSET	AMERICAN STANDARD	215DA104	ROUND BOWL CLOSED FRONT SEAT AND SOLID COVER, 1.28 GPF	1/2"	--	3"	2"	
WC-2	ADA FLOOR MOUNTED FLUSH TANK WATER CLOSET	AMERICAN STANDARD	215BA10#	ROUND BOWL CLOSED FRONT SEAT AND SOLID COVER, 1.28 GPF	1/2"	--	3"	2"	8
L-1	DROP-IN LAVATORY	KOHLER	K-2337-I	BISCUIT COLOR FAUCET: F-2	--	--	1-1/4"	1-1/2"	1, 2
L-2	ADA DROP-IN LAVATORY	KOHLER	K-2337-I	BISCUIT COLOR FAUCET: F-2	--	--	1-1/4"	1-1/2"	1, 2, 8
S-1	KITCHEN SINK 18 GAUGE DROP-IN	DAYTON	D9ESR12722	STAINLESS STEEL FAUCET: F-1	--	--	2"	1-1/2"	2
S-2	ADA KITCHEN SINK 18 GAUGE SELF RIM SINK	DAYTON	DI2521	STAINLESS STEEL FAUCET: F-1	--	--	2"	1-1/2"	2, 8
SH-1	36" SHOWER UNIT WITH SURROUND ADA	BEST BATH	4L554038A5B	WHITE GELCOAT FLAT PANEL GRAB BARS, 24" SLIDE SHOWER VALVE: SV-1	--	--	1-1/2"	2"	
SH-2	36" SHOWER UNIT WITH SURROUND ADA	BEST BATH	4L554038A5B	WHITE GELCOAT FLAT PANEL GRAB BARS, SEAT, 24" SLIDE SHOWER VALVE: SV-2	--	--	1-1/2"	2"	8
F-1	ADA SINGLE HANDLE HIGH ARC PULL DOWN KITCHEN FAUCET	KRAUS	KPF-2620	1.0 GPM AERATOR, SINGLE HOLE FULLDOWN SPRAY, CHROME FINISH CURP STRAINER DRAIN	1/2"	1/2"	--	--	2, 8
F-2	ADA SINGLE HANDLE LAVATORY FAUCET	DELTA	554-LF-PP	1.0 GPM AERATOR SINGLE HOLE POLISHED CHROME	1/2"	1/2"	--	--	2, 8
F-3	JANITOR'S SINK FAUCET	AMERICAN STANDARD	8344J12	VACUUM BREAKER, WALL BRACE, PAIL HOOK, 30" HOSE WITH WALL GRIP, MOP HANGER	3/4"	3/4"	--	--	
SV-1	SINGLE LEVER PRESSURE BALANCE SHOWER FAUCET	DELTA	T18H53	1.75 GPM CHROME FINISH SHOWER VALVE	1/2"	1/2"	--	--	7
SV-2	ADA SINGLE LEVER PRESSURE BALANCE SHOWER FAUCET	DELTA	T18H53	1.75 GPM CHROME FINISH SHOWER VALVE	1/2"	1/2"	--	--	7, 8
HB-1	NON-FREEZE WALL HYDRANT	WOODFORD	MODEL 65	VACUUM BREAKER LOOSE CONTROL KEY WALL CLAMP-WITH HYDRANT BOX	1/2"	--	--	--	6
FD-1	7" ROUND FLOOR DRAIN	WADE	11005TD	NICKEL BRONZE STRAINER DEEP SEAL TRAP	--	--	--	--	4, 9
FD-2	5" ROUND SHOWER DRAIN	WADE	11005TD	NICKEL BRONZE STRAINER DEEP SEAL TRAP	--	--	--	--	
JS-1	MOLDED STONE JANITOR'S SINK	FIAT	M6B-2424	FAUCET F-3 5/8 BUMPERGUARDS 5/8 WALL GUARDS	--	--	3"	1-1/2"	
ET-1	EXPANSION TANK	AMTROL	THERM-X-TROL ST-8	DOMESTIC WATER SERVICE	--	3/4"	--	--	
ET-2	EXPANSION TANK	AMTROL	THERM-X-TROL ST-5	NH-01 IN BUILDING SERVICE ROOM 101	--	3/4"	--	--	
RP-1	RECIRCULATION PUMP	TACO	2420	0.16T HP, 120V STRAP-ON AQUASTAT 2 GPM, 40" HEAD	--	--	--	--	4
GD-1	GARBAGE DISPOSAL	INGSINKERATOR	BADGER 5	1/3HP, 120V	--	--	--	--	
WMB	WASHING MACHINE CONNECTION BOX	GUY GRAY	W2700	PLASTIC WASHING MACHINE BOX	1/2"	1/2"	2"	1-1/2"	3, 5
IMB	ICE MAKER CONNECTION BOX	GUY GRAY	AB9100	PLASTIC ICEMAKER BOX	1/2"	--	--	--	3
SP-1	SUMP PUMP	WEILL		1/2" HP, 120V/1 PHASE RATED 50 GPM AT 20 FEET M.P.D.	--	--	--	--	

- NOTES:**
- PROVIDE TAILPIECE DRAIN CONNECTION ON LAVATORIES OR SINKS WHERE NEEDED FOR HVAC CONDENSATE DRAINS.
 - FAUCET HOLES TO MATCH FAUCET SPECIFIED.
 - WHERE BOX IS TO BE INSTALLED IN FIRE RATED WALL, CONTRACTOR SHALL SUPPLY FIRE RATED BOXES.
 - PIPE SIZE AS SHOWN ON DRAWING.
 - PROVIDE WASHING MACHINE DRAIN PAN UNDERNEATH WASHING MACHINE AT ALL WASHING MACHINE BOX LOCATIONS.
 - PROVIDE OPERATING ROD ASSEMBLY PER MANUFACTURER'S RECOMMENDATIONS BASED ON WALL THICKNESS.
 - PIPE FOR SHOWER HEAD SHALL BE LOCATED AT 6'-0" A.F.F., ABOVE SURROUND
 - FIXTURE ASSEMBLY MUST BE APPROVED BY AND INSTALLED PER ADA.
 - PROVIDE SURESEAL 55X000V INLINE FLOOR DRAIN TRAP SEAL WITH ASSE 10T2 RATING.
- GENERAL NOTES:**
- PROVIDE INSULATION KIT ON ALL ADA FIXTURES WITH EXPOSED TRAP AND SUPPLIES.
 - PROVIDE TAILPIECE DRAIN CONNECTION ON LAVATORIES OR SINKS WHERE NEEDED FOR HVAC CONDENSATE DRAINS.

WATER HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	CAPACITY (GAL)	INPUT (KW)	OUTPUT (KW)	RECOVERY (GPH)	V/PH	NOTES
WH-1	BRADFORD WHITE	RE240L6	38	4.5	-	21.0	208/1	RESIDENCE

GENERAL NOTES (APPLIES TO ALL ABOVE):

- PROVIDE ASME PRESSURE AND TEMPERATURE RELIEF VALVE.
- PROVIDE DIELECTRIC CONNECTIONS AT WATER HEATER.
- ALL WATER HEATERS 200 MBH OR LARGER SHALL HAVE ASME RATING.
- RECOVERY BASED ON 90 DEGREE TEMPERATURE RISE.



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APARTMENT
PLUMBING
SCHEDULES AND
DETAILS

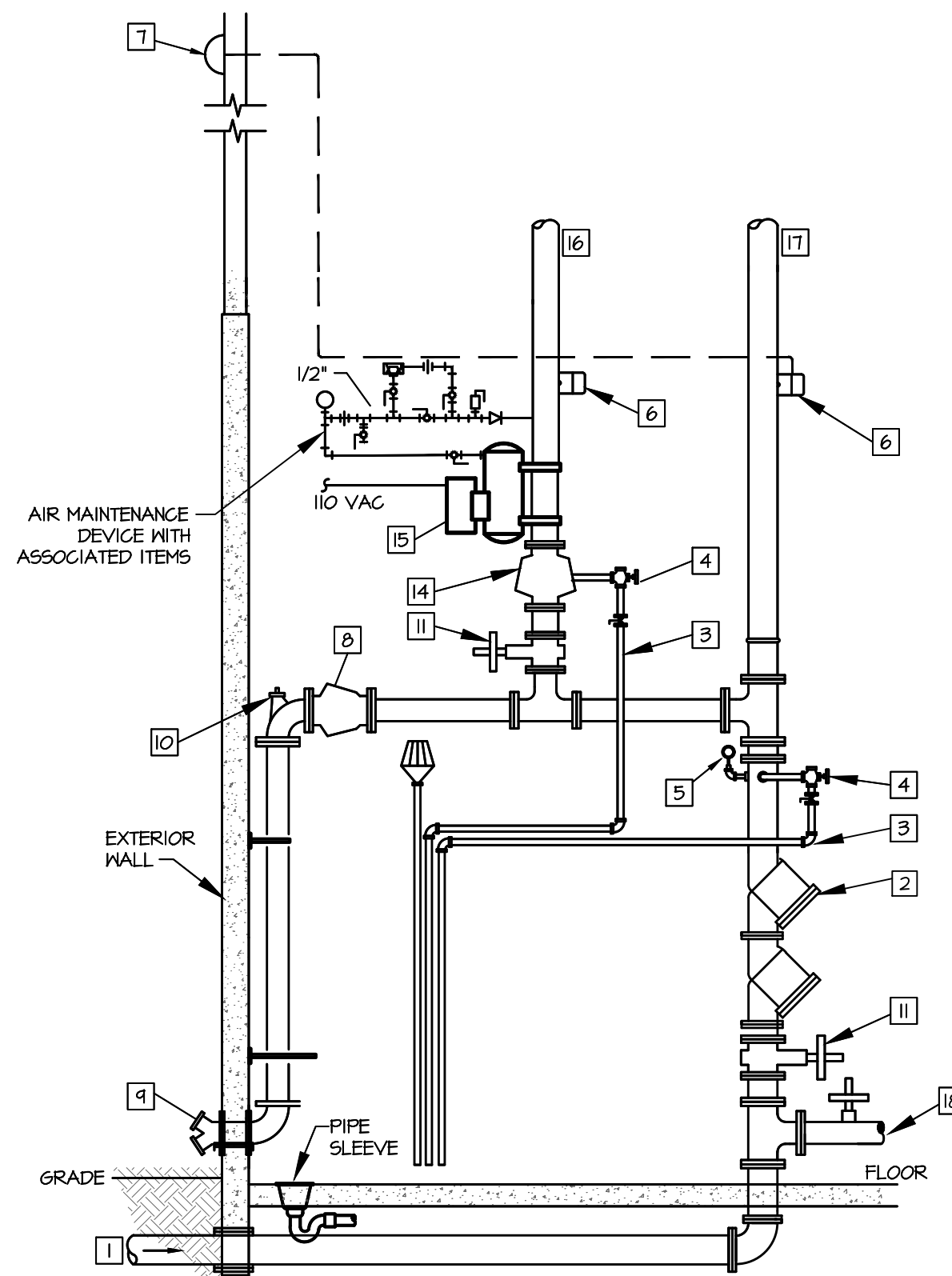
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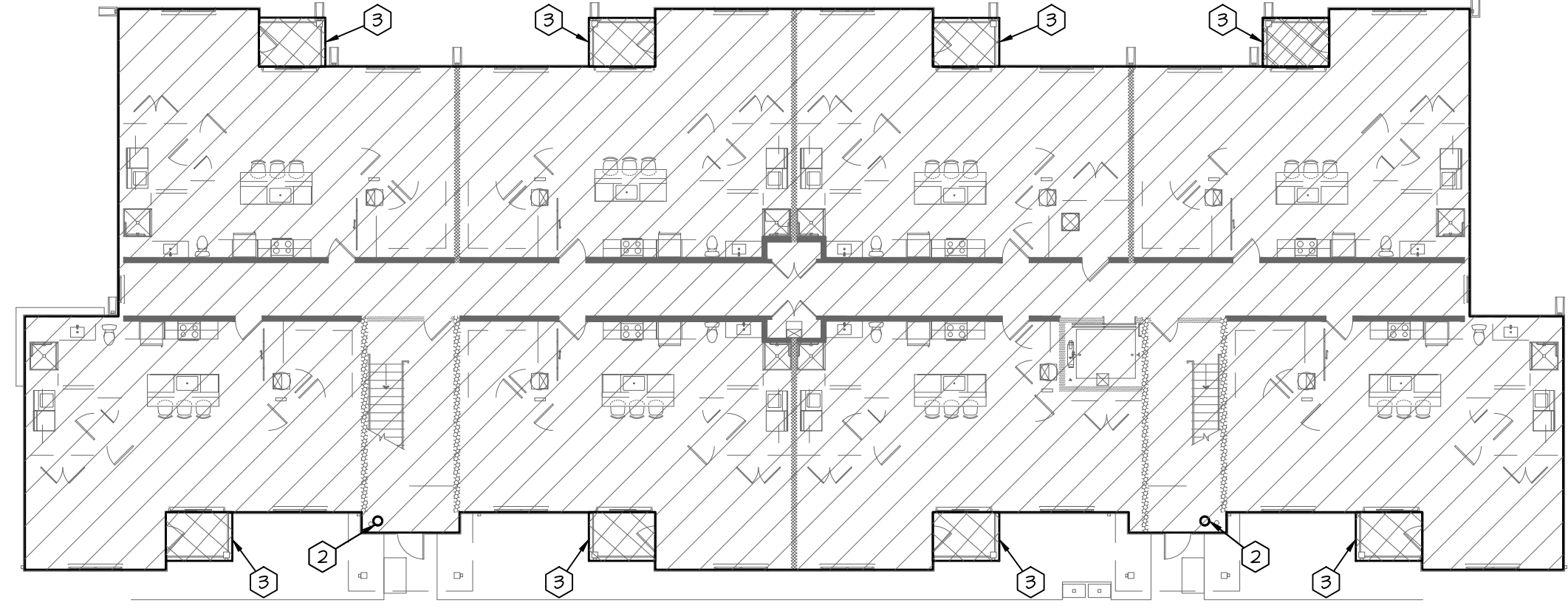
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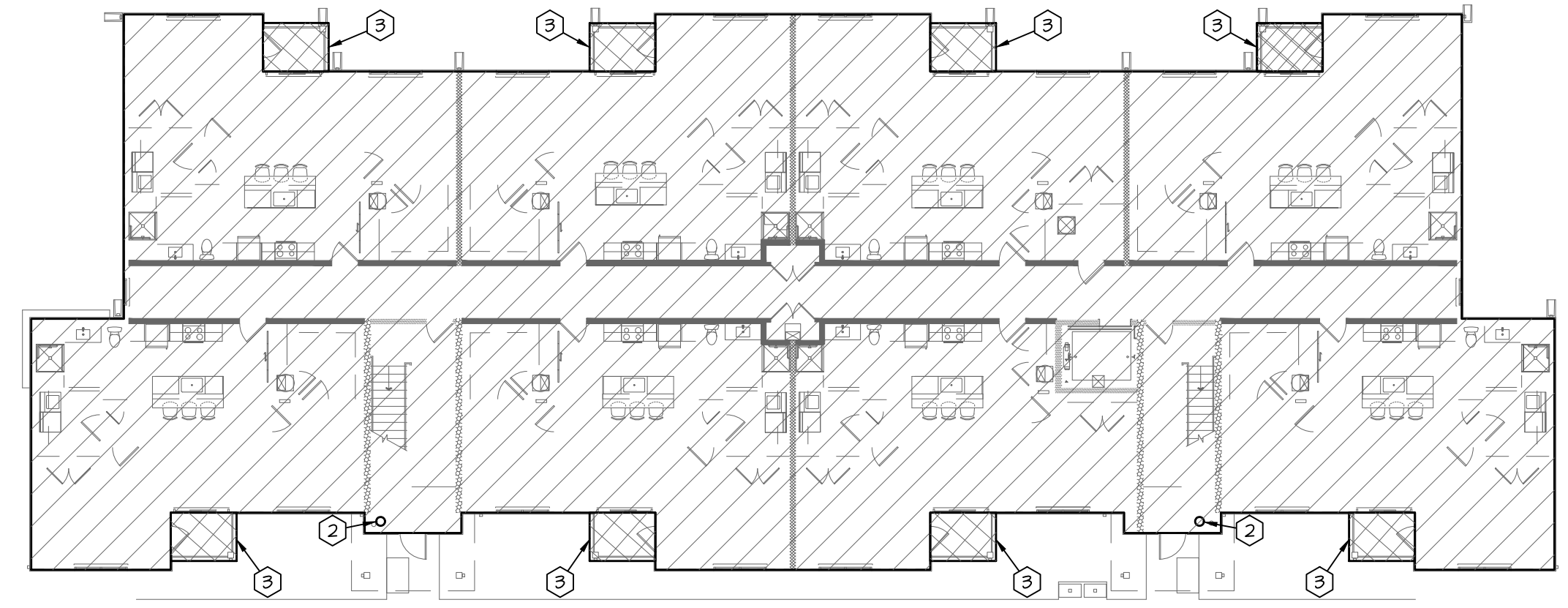
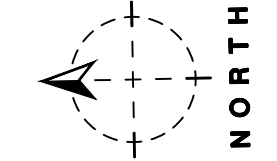
- KEY:**
- 1 FIRE PROTECTION SERVICE
 - 2 DOUBLE CHECK BACKFLOW PREVENTER
 - 3 MAIN DRAIN
 - 4 MAIN DRAIN VALVE
 - 5 PRESSURE GAUGE
 - 6 FLOW SWITCH
 - 7 ELECTRIC ALARM
 - 8 CHECK VALVE
 - 9 SIAMESE CONNECTION
 - 10 BALL DRIP
 - 11 SUPERVISED OS&Y VALVES
 - 12 SHUT-OFF VALVE, TYP.
 - 13 FLOOR DRAIN
 - 14 DRY SYSTEM VALVE
 - 15 AIR COMPRESSOR
 - 16 DRY SYSTEM MAIN
 - 17 WET SYSTEM MAIN
 - 18 2" DOMESTIC WATER SERVICE

ARRANGEMENT SHOWN IS SCHEMATIC. MODIFY TO SUIT MANUFACTURER'S STANDARDS, MEET LOCAL CODE REQUIREMENTS. ROUTE ALL DRAINS TO OUTSIDE AS SHOWN OR TO NEARBY FLOOR DRAIN.

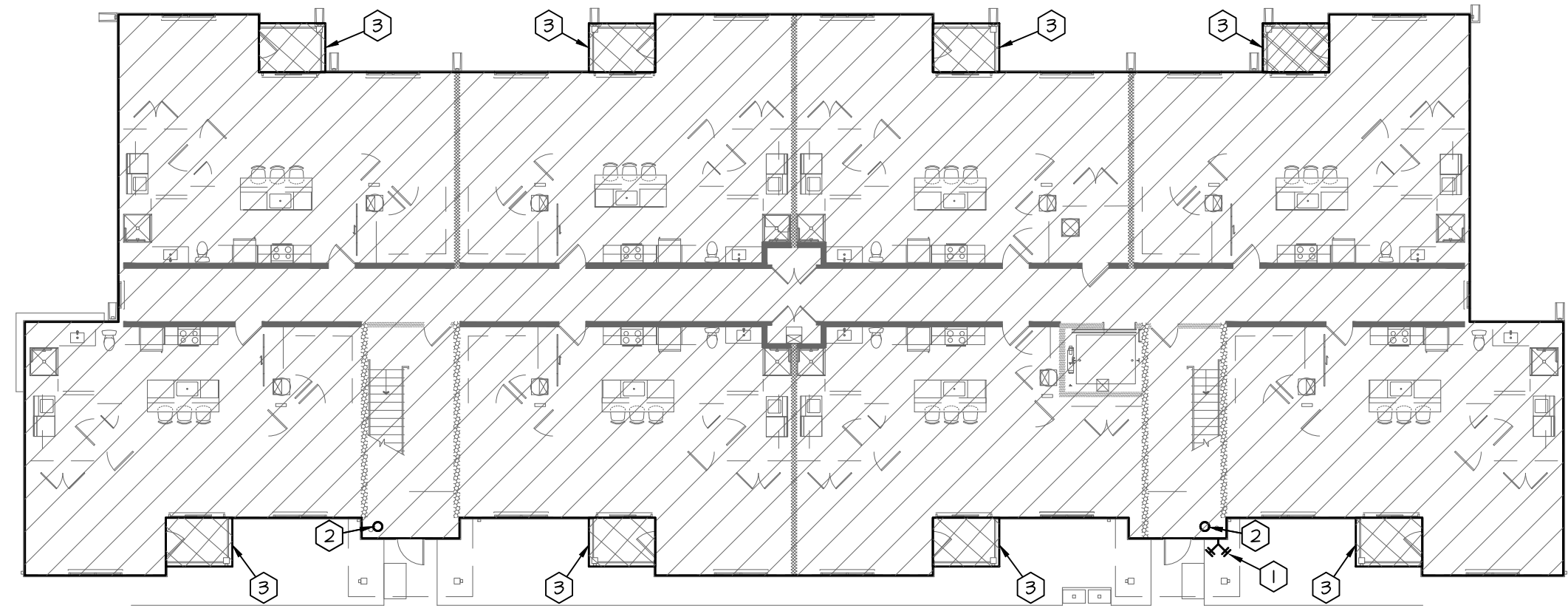
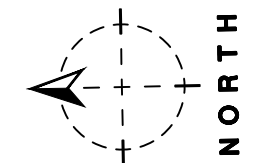
A4 WET/DRY FIRE DEPARTMENT WATER ENTRANCE
SCALE: NOT TO SCALE



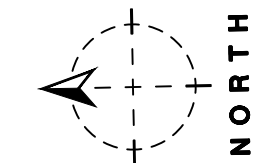
A2 3RD FLOOR FIRE PROTECTION PLAN
SCALE: 1/16" = 1'-0"



A3 2ND FLOOR FIRE PROTECTION PLAN
SCALE: 1/16" = 1'-0"



A1 1ST FLOOR FIRE PROTECTION PLAN
SCALE: 1/16" = 1'-0"



THIS FIRE PROTECTION SYSTEM SHALL BE DESIGNED BASED ON 10 PSI STATIC, 54 RESIDUAL PRESSURE AT 1035 GPM, BASED ON FLOW TEST PERFORMED AT SOUTH 204TH AVENUE.

PLAN NOTES:

1. FIRE DEPARTMENT CONNECTION.
2. FIRE DEPARTMENT STANDPIPE.
3. PROVIDE DRY SIDENALL HEAD TO PROTECT BALCONY.

FIRE PROTECTION NOTES:

1. PROVIDE A COMPLETE AUTOMATIC SPRINKLER SYSTEM TO SERVE THE ENTIRE BUILDING.
2. PROVIDE FIRE PROTECTION SYSTEM COMPLETE, PER APPLICABLE CODES, PER NFPA, AND PER REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
3. INCLUDE ALL PIPING, OFFSETS, FITTINGS, DRAINS, VALVES, SUPPORTS, HEADS, ETC., AS REQUIRED FOR A COMPLETE OPERABLE SYSTEM.
4. SPRINKLER HEADS SHALL BE WHITE, CONCEALED IN PUBLIC AREAS, AND SEMI-RECESSED IN RESIDENCE UNITS. SPRINKLER HEADS SHALL BE ROUGH BRASS FOR AREAS WITH EXPOSED STRUCTURE.
5. SPRINKLER HEADS IN CEILINGS, UNLESS FUNCTIONALLY IMPOSSIBLE, SHALL BE CENTERED WITH AND BETWEEN ROWS OF LIGHT FIXTURES. SPRINKLER HEADS IN MACHINE ROOMS SHALL BE 212F TEMPERATURE ACTIVATED.
6. PIPING IN AREAS HAVING FINISHED CEILINGS SHALL BE CONCEALED. SPRINKLER PIPING 2" SCHEDULE 10 BLACK STEEL, SPRINKLER PIPING 2" AND SMALLER SHALL BE SCHEDULE 40 BLACK STEEL. MINIMUM PIPE 1" AND LARGER MAY BE 2" SIZE SHALL BE 1". OTHER MATERIALS LISTED UNDER NFPA 13R ARE ACCEPTABLE.
7. PROVIDE AND INSTALL BACKFLOW PREVENTION EQUIPMENT AS REQUIRED BY LOCAL CODES. PROVIDE AND INSTALL FULL FLOW FIRE METER OR DETECTOR CHECK METER IF REQUIRED. THE SYSTEMS SHALL BE DESIGNED BY A LICENSED FIRE PROTECTION ENGINEER AND INSTALLED BY A LICENSED SPRINKLER CONTRACTOR.
8. COORDINATE ALL SCHEDULING AND WORK WITH OTHER TRADES SO AS TO PREVENT CONFLICTS, AND TO ENSURE ORDERLY PROGRESS OF THE WORK, WITH A MINIMUM OF DELAYS. WHERE SPRINKLER PIPING IS INSTALLED WITHOUT COORDINATING WITH OTHER TRADES AND CONFLICTS OCCUR, SPRINKLER PIPING SHALL BE RELOCATED AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER TO RESOLVE THE CONFLICTS.
9. WHERE PIPING PASSES THROUGH WALLS, FLOORS, CEILINGS, OR OTHER BUILDING CONSTRUCTION, SLEEVES MUST BE USED. WHERE EXPOSED PIPING PASSES THROUGH FINISH WORK, CHROME PLATED OR OTHER FINISH ACCEPTABLE TO THE ARCHITECT, SPLIT WALL PLATES OR ESCUTCHEONS SHALL BE INSTALLED TO FIT SNUGLY AROUND THE PIPING.
10. SEAL ALL FIRE PROTECTION FLOOR, WALL AND ROOF PENETRATIONS WATERTIGHT AND WEATHERTIGHT. CAULK AROUND FIRE PROTECTION PENETRATIONS WITH 3M CP-25 FIRE BARRIER CAULK (THICKNESS AS REQUIRED AND RECOMMENDED BY MANUFACTURER) TO MAINTAIN FIRE RESISTANCE RATING OF FIRE-RATED ASSEMBLIES.
11. PROVIDE SEISMIC RESTRAINT SYSTEM TO KEEP ALL MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION BUILDING SYSTEM COMPONENTS IN PLACE DURING A SEISMIC EVENT EQUAL TO THE CODE MANDATED SEISMIC FORCE LEVELS FOR THE AREA. REFERENCE SPECIFICATIONS FOR MORE INFORMATION.

GENERAL NOTES:

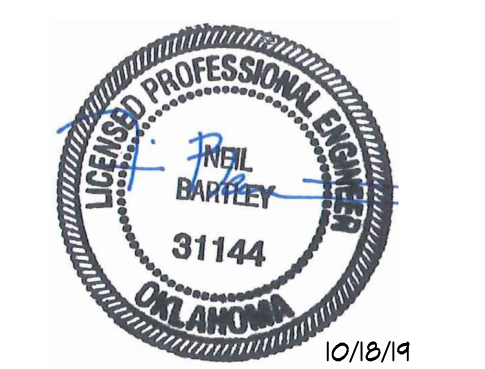
1. PROVIDE NEW FIRE SPRINKLER SERVICE ENTRANCE IN ACCORDANCE WITH FIRE PROTECTION SERVICE ENTRY DETAIL. THE FIRE SPRINKLER CONTRACTOR (FSC) SHALL BE RESPONSIBLE FOR THE DESIGN, LAYOUT, MATERIALS AND COMPLETE INSTALLATION OF THE ENTIRE SPRINKLER SYSTEM. THE FSC SHALL PREPARE ALL NEEDED DRAWINGS TO MEET NFPA 13 REQUIREMENTS AND HAVE APPROVAL OF ALL LOCAL, STATE AND INSURANCE UNDERWRITING AUTHORITIES. THE SYSTEM SHALL BE TESTED UNDER PRESSURE BY THE FSC AND INSPECTED AND APPROVED BY THE LOCAL FIRE MARSHALL PRIOR TO ACCEPTANCE BY OWNER. THE FSC SHALL COORDINATE LOCATION OF THE ENTIRE SPRINKLER SYSTEM WITH ALL OTHER TRADES.
2. PROVIDE WET TYPE FIRE PROTECTION SYSTEM FOR SINGLE HATCHED AREAS AS SHOWN AT RIGHT.
3. PROVIDE DRY TYPE FIRE PROTECTION SYSTEM FOR DOUBLE HATCHED AREAS AS SHOWN AT RIGHT IF REQUIRED BY CODE.
4. ROUTE PIPING CONCEALED ABOVE CEILING OR IN WALLS WHERE POSSIBLE. HEAD LAYOUT AND BRANCH PIPING SHALL BE SUBMITTED IN SHOP DRAWINGS.
5. ALL PIPING SHALL BE ROUTED AT 90 DEGREE ANGLES TO THE STRUCTURE IN A NEAT AND ORDERLY FASHION.
6. ALL WATER SERVICE INSTALLATIONS INCLUDING BACKFLOW DEVICES ARE SUBJECT TO FIELD VERIFICATION AND APPROVAL BY THE WATER DEPARTMENT INSPECTOR.
7. ALL WET SYSTEM PIPING SHALL BE ROUTED THROUGH SOFFITS AS INDICATED AND COORDINATED WITH DOMESTIC WATER PIPING. AT CONTRACTORS OPTION, AND IF ACCEPTABLE BY CODE, THIS ENTIRE PIPING MAY BE PROTECTED WITH THE DRY SYSTEM AS LONG AS NO MORE THAN 4 DRAINS ARE PROVIDED TO ADEQUATELY DRAIN THE SYSTEM.



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STARK WILSON DUNCAN ARCHITECTS, INC.
3115 NICHOLS RD., STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978



APARTMENT
BUILDING FIRE
PROTECTION PLAN

ISSUE DATE:
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REVISIONS:



PROJECT NO.: 1902

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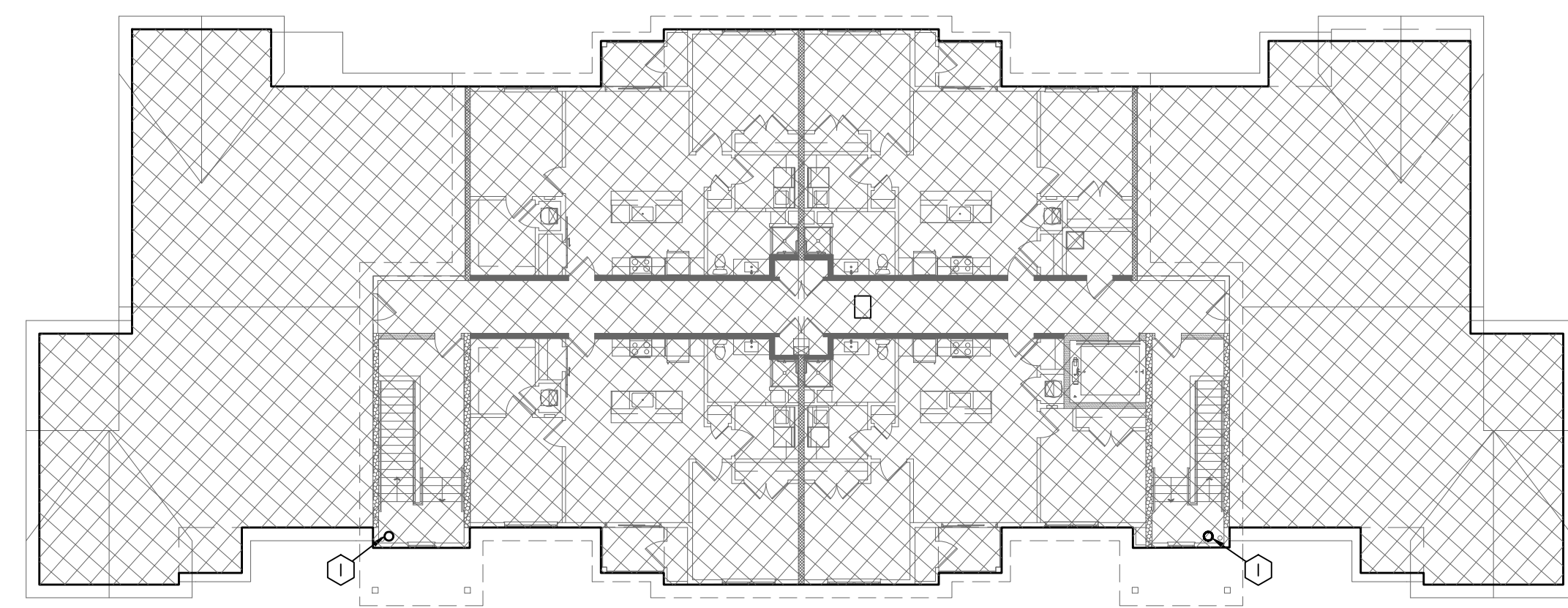
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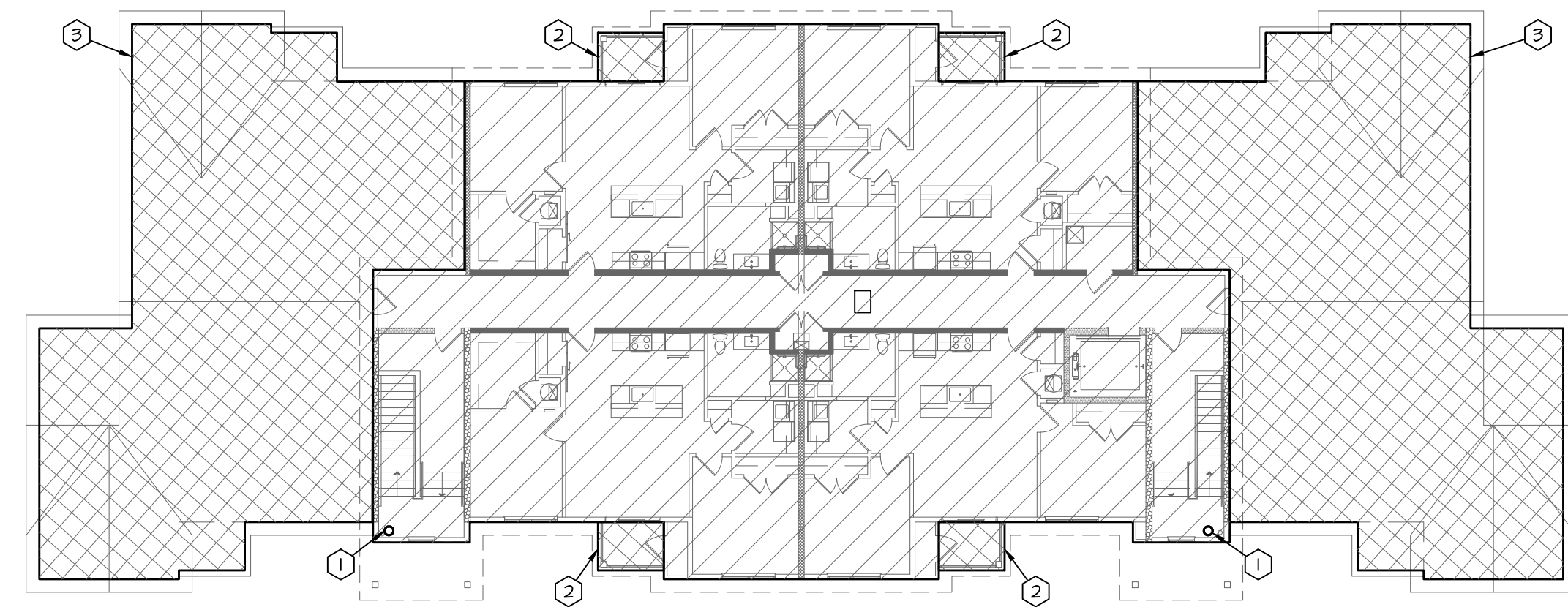
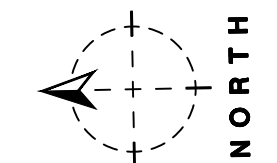
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PLAN NOTES:

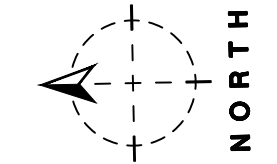
1. FIRE DEPARTMENT STANDPIPE.
2. PROVIDE DRY SIDEWALL HEAD TO PROTECT BALCONY.
3. PROVIDE DRY TYPE FIRE PROTECTION IN THE ATTIC OF THIRD FLOOR.



A2 ATTIC FIRE PROTECTION PLAN
SCALE: 1/16" = 1'-0"



A1 4TH FLOOR FIRE PROTECTION PLAN
SCALE: 1/16" = 1'-0"



THIS FIRE PROTECTION SYSTEM SHALL BE DESIGNED BASED ON 10 PSI STATIC, 54 RESIDUAL PRESSURE AT 1035 GPM, BASED ON FLOW TEST PERFORMED AT SOUTH 204TH AVENUE.

FIRE PROTECTION NOTES:

1. PROVIDE A COMPLETE AUTOMATIC SPRINKLER SYSTEM TO SERVE THE ENTIRE BUILDING.
2. PROVIDE FIRE PROTECTION SYSTEM COMPLETE, PER APPLICABLE CODES, PER NFPA, AND PER REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
3. INCLUDE ALL PIPING, OFFSETS, FITTINGS, DRAINS, VALVES, SUPPORTS, HEADS, ETC., AS REQUIRED FOR A COMPLETE OPERABLE SYSTEM.
4. SPRINKLER HEADS SHALL BE WHITE, CONCEALED IN PUBLIC AREAS, AND SEMI-RECESSED IN RESIDENCE UNITS. SPRINKLER HEADS SHALL BE ROUGH BRASS FOR AREAS WITH EXPOSED STRUCTURE.
5. SPRINKLER HEADS IN CEILINGS, UNLESS FUNCTIONALLY IMPOSSIBLE, SHALL BE CENTERED WITH AND BETWEEN ROWS OF LIGHT FIXTURES. SPRINKLER HEADS IN MACHINE ROOMS SHALL BE 212F TEMPERATURE ACTIVATED.
6. PIPING IN AREAS HAVING FINISHED CEILINGS SHALL BE CONCEALED. SPRINKLER PIPING 2" SCHEDULE 10 BLACK STEEL, SPRINKLER PIPING 2" AND SMALLER SHALL BE SCHEDULE 40 BLACK STEEL. MINIMUM PIPE 1" AND LARGER MAY BE 2 SIZE SHALL BE 1". OTHER MATERIALS LISTED UNDER NFPA 13R ARE ACCEPTABLE.
7. PROVIDE AND INSTALL BACKFLOW PREVENTION EQUIPMENT AS REQUIRED BY LOCAL CODES. PROVIDE AND INSTALL FULL FLOW FIRE METER OR DETECTOR CHECK METER IF REQUIRED. THE SYSTEMS SHALL BE DESIGNED BY A LICENSED FIRE PROTECTION ENGINEER AND INSTALLED BY A LICENSED SPRINKLER CONTRACTOR.
8. COORDINATE ALL SCHEDULING AND WORK WITH OTHER TRADES SO AS TO PREVENT CONFLICTS, AND TO ENSURE ORDERLY PROGRESS OF THE WORK, WITH A MINIMUM OF DELAYS. WHERE SPRINKLER PIPING IS INSTALLED WITHOUT COORDINATING WITH OTHER TRADES AND CONFLICTS OCCUR, SPRINKLER PIPING SHALL BE RELOCATED AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER TO RESOLVE THE CONFLICTS.
9. WHERE PIPING PASSES THROUGH WALLS, FLOORS, CEILINGS, OR OTHER BUILDING CONSTRUCTION, SLEEVES MUST BE USED. WHERE EXPOSED PIPING PASSES THROUGH FINISH WORK, CHROME PLATED OR OTHER FINISH ACCEPTABLE TO THE ARCHITECT, SPLIT WALL PLATES OR ESCUTCHEONS SHALL BE INSTALLED TO FIT SNUGLY AROUND THE PIPING.
10. SEAL ALL FIRE PROTECTION FLOOR, WALL AND ROOF PENETRATIONS WATERTIGHT AND WEATHERTIGHT. CAULK AROUND FIRE PROTECTION PENETRATIONS WITH 3M CP-25 FIRE BARRIER CAULK (THICKNESS AS REQUIRED AND RECOMMENDED BY MANUFACTURER) TO MAINTAIN FIRE RESISTANCE RATING OF FIRE-RATED ASSEMBLIES.
11. PROVIDE SEISMIC RESTRAINT SYSTEM TO KEEP ALL MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION BUILDING SYSTEM COMPONENTS IN PLACE DURING A SEISMIC EVENT EQUAL TO THE CODE MANDATED SEISMIC FORCE LEVELS FOR THE AREA. REFERENCE SPECIFICATIONS FOR MORE INFORMATION.

GENERAL NOTES:

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2. PROVIDE WET TYPE FIRE PROTECTION SYSTEM FOR SINGLE HATCHED AREAS AS SHOWN AT RIGHT.
3. PROVIDE DRY TYPE FIRE PROTECTION SYSTEM FOR DOUBLE HATCHED AREAS AS SHOWN ON RIGHT IF REQUIRED BY CODE.
4. ROUTE PIPING CONCEALED ABOVE CEILING OR IN WALLS WHERE POSSIBLE. HEAD LAYOUT AND BRANCH PIPING SHALL BE SUBMITTED IN SHOP DRAWINGS.
5. ALL PIPING SHALL BE ROUTED AT 90 DEGREE ANGLES TO THE STRUCTURE IN A NEAT AND ORDERLY FASHION.
6. ALL WATER SERVICE INSTALLATIONS INCLUDING BACKFLOW DEVICES ARE SUBJECT TO FIELD VERIFICATION AND APPROVAL BY THE WATER DEPARTMENT INSPECTOR.
7. ALL WET SYSTEM PIPING SHALL BE ROUTED THROUGH SOFFITS AS INDICATED AND COORDINATED WITH DOMESTIC WATER PIPING. AT CONTRACTORS OPTION, AND IF ACCEPTABLE BY CODE, THIS ENTIRE PIPING MAY BE PROTECTED WITH THE DRY SYSTEM AS LONG AS NO MORE THAN 4 DRAINS ARE PROVIDED TO ADEQUATELY DRAIN THE SYSTEM.



ARCHITECTURAL CORPORATION
OKLAHOMA CERTIFICATE
OF AUTHORITY NO. CA 02479

TIMBER RIDGE COTTAGES
SECTION 8, TOWNSHIP 18, RANGE 15
BROKEN ARROW, WAGONER COUNTY, OKLAHOMA

STARK WILSON DUNCAN ARCHITECTS INC.
3115 NICHOLS RD., STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978



**APARTMENT
BUILDING FIRE
PROTECTION PLAN**

ISSUE DATE:
OCTOBER 18, 2019
REVISIONS:

PROJECT NO.: 1902

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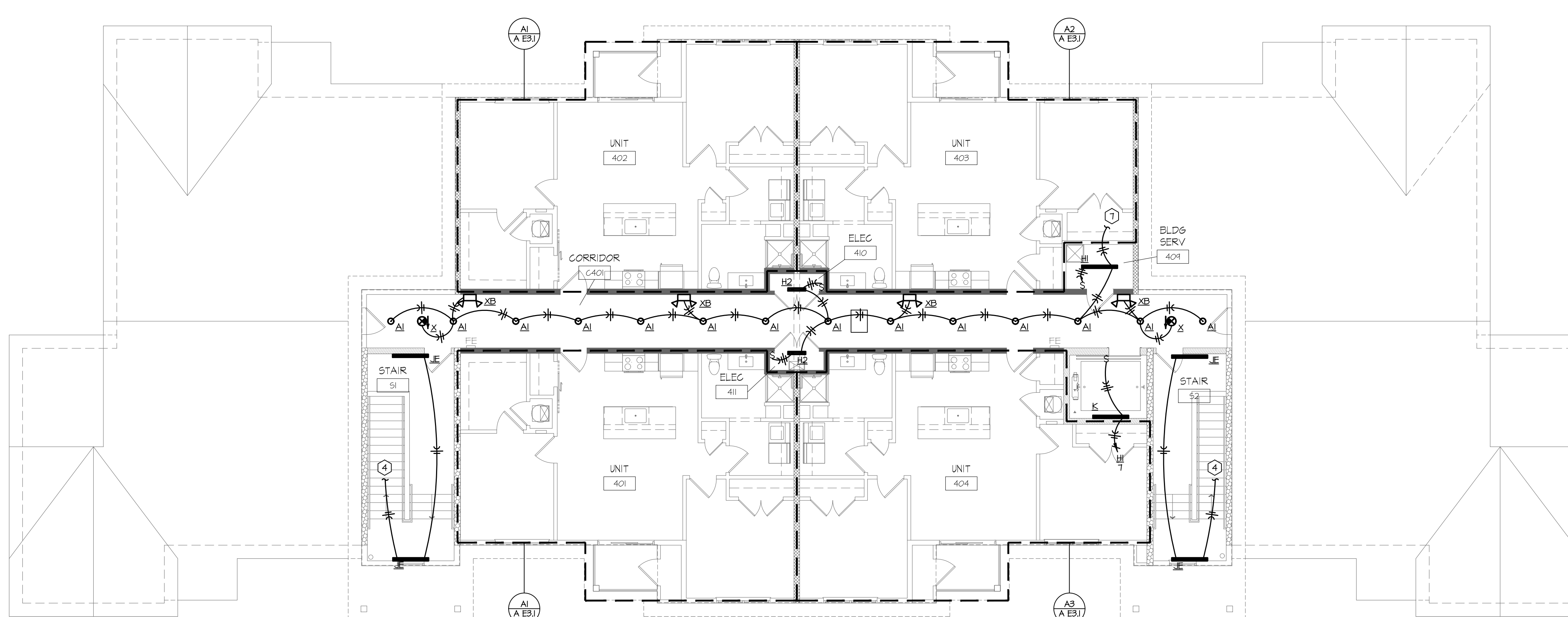
11205 West 79th Street
Lenexa, Kansas 66214
913.382.9090 | mail@h-b-engineers.com
H&B PROJECT NUMBER: 1920580
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GENERAL NOTES:

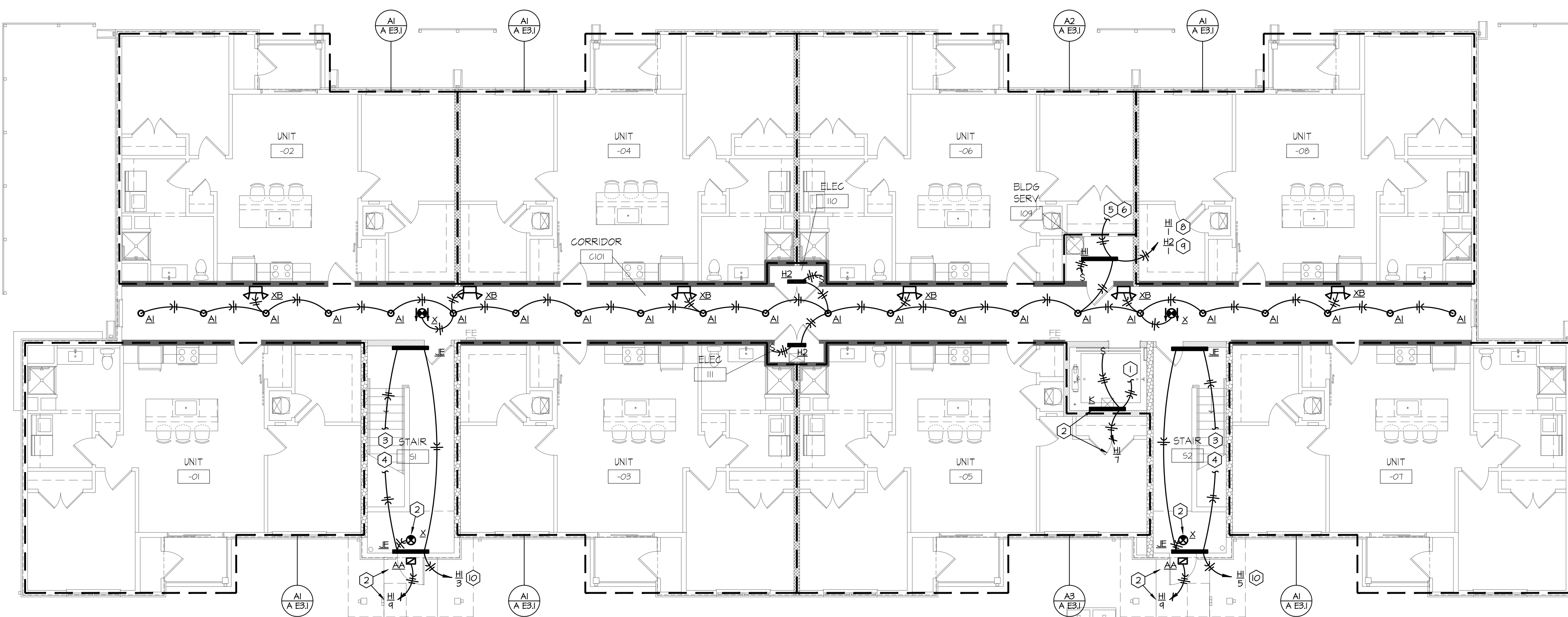
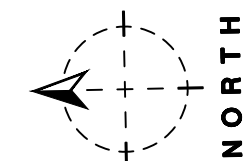
- A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE GENERAL EXTENT OF THE WORK. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL PULL BOXES, JUNCTION BOXES AND INCIDENTAL MATERIALS AND LABOR FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
- B. ELECTRICAL CONTRACTOR SHALL DERATE CONDUCTORS AS REQUIRED BY THE N.E.C. WHEN GROUPED IN COMMON RACEWAYS.
- C. COORDINATE THE EXACT LIGHT FIXTURE LOCATIONS WITH THE ARCHITECTURAL DRAWINGS.
- D. ALL WIRES RUN BELOW GRADE, IN CONCRETE THAT IS IN DIRECT CONTACT WITH THE EARTH, OR MASONRY THAT IS IN DIRECT CONTACT WITH THE EARTH SHALL BE MET LOCATION LISTED.
- E. PROVIDE SEPARATE NEUTRALS FOR DIMMING CIRCUITS.
- F. ALL ELECTRICAL BRANCH CIRCUITS SERVING OUTLETS AND LIGHTING IN FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER.

PLAN NOTES:

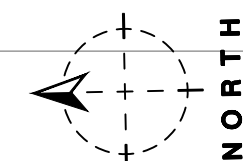
- 1. EXTEND TO ELEVATOR PIT RECEPTACLES. RECEPTACLES SHALL BE CONNECTED DOWNSTREAM OF LIGHTS.
- 2. FIXTURE/EQUIPMENT LOCATED ON FIRST FLOOR ONLY.
- 3. LIGHTING CIRCUIT/CONTROL WIRING FROM STAIRWELL LIGHTING ON LEVEL ABOVE.
- 4. LIGHTING CIRCUIT/CONTROL WIRING FROM STAIRWELL LIGHTING ON LEVEL BELOW 2ND, 3RD, & 4TH FLOORS ONLY.
- 5. TO SECOND FLOOR ABOVE. CIRCUIT FIRST & SECOND FLOORS LIGHTING CIRCUITS TOGETHER.
- 6. TO FOURTH FLOOR ABOVE. CIRCUIT THIRD & FOURTH FLOORS LIGHTING CIRCUITS TOGETHER.
- 7. TO THIRD FLOOR BELOW. CIRCUIT THIRD & FOURTH FLOORS LIGHTING CIRCUITS TOGETHER.
- 8. FIRST & SECOND FLOOR LIGHTING CIRCUIT.
- 9. THIRD & FOURTH FLOOR LIGHTING CIRCUIT.
- 10. STAIRWELL LIGHTING CIRCUIT. FIRST FLOOR ONLY.



A2 4TH FLOOR LIGHTING PLAN
SCALE: 1/8" = 1'-0"



A1 1ST - 3RD FLOOR LIGHTING PLAN
SCALE: 1/8" = 1'-0"



ARCHITECTURAL CORPORATION
OKLAHOMA CERTIFICATE
OF AUTHORITY NO. CA 02479

TIMBER RIDGE COTTAGES
SECTION 8, TOWNSHIP 18, RANGE 15
BROKEN ARROW, WAGONER COUNTY, OKLAHOMA

STARK WILSON DUNCAN ARCHITECTS, INC.
315 NICHOLS RD., STE 228 - KANSAS CITY, MO 64112 - T 816.531.1998 F 816.531.1978



APARTMENT
BUILDING LIGHTING
PLAN

ISSUE DATE:
OCTOBER 18, 2019
REVISIONS:



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APARTMENT
BUILDING POWER &
SPECIAL SYSTEMS
PLAN

ISSUE DATE:
OCTOBER 18, 2019
REVISIONS:

PROJECT NO.: 1902

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GENERAL NOTES:

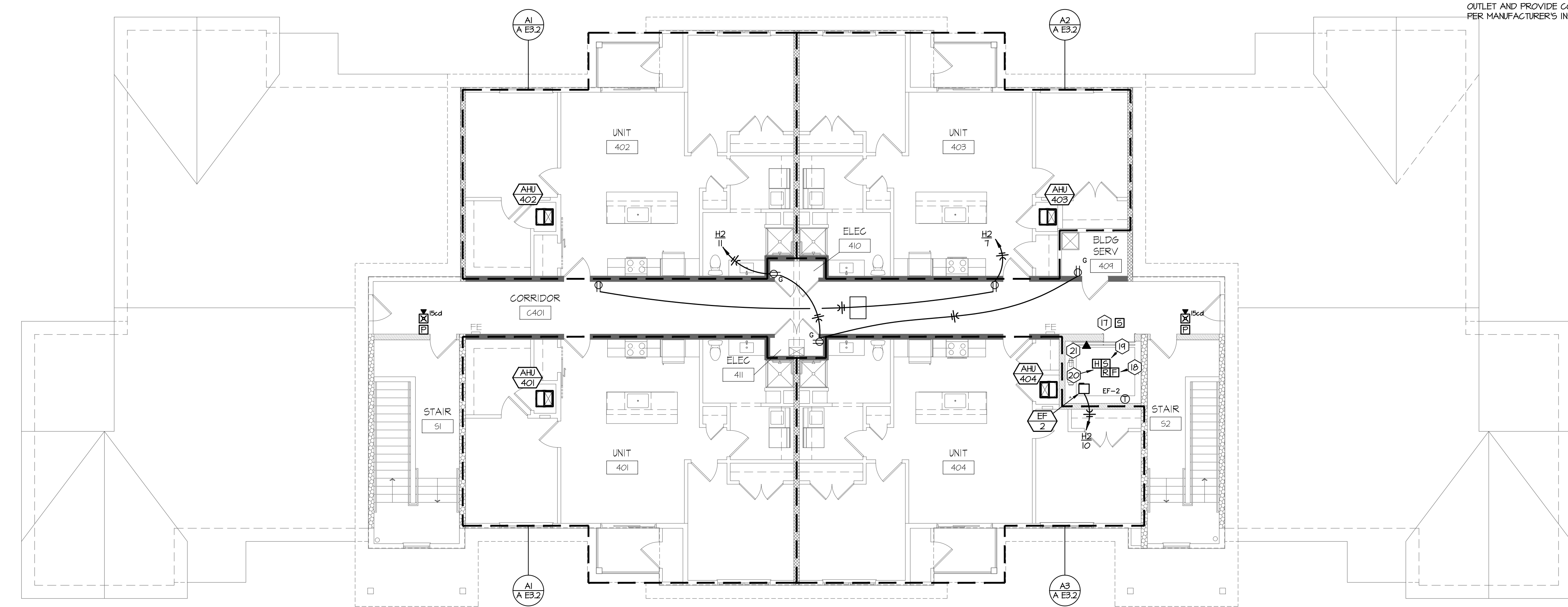
- A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE GENERAL EXTENT OF THE WORK. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL PULL BOXES, JUNCTION BOXES AND INCIDENTAL MATERIALS AND LABOR FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
- B. ELECTRICAL CONTRACTOR SHALL DERATE CONDUCTORS AS REQUIRED BY THE N.E.C. WHEN GROUPED IN COMMON RACEWAYS.
- C. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH CONTRACTOR PROVIDED SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN THE SUBMITTALS AND ELECTRICAL DRAWINGS.
- D. CONTRACTOR SHALL OFFSET OUTLET BOXES ON OPPOSITE SIDES OF A COMMON WALL TO PREVENT SOUND TRANSMISSION BETWEEN ADJOINING ROOMS. BOXES SHALL BE A MINIMUM OF 12" APART, AND MUST BE INSTALLED IN SEPARATE STUD CAVITIES.
- E. ALL LOW VOLTAGE WIRES NOT ROUTED IN CONDUIT SHALL BE PROVIDED AS FLEMING RATED CABLES.
- F. PROVIDE JUNCTION BOXES AND 3/4" CONDUIT WITH FULL STRINGTIE UP TO ACCESSIBLE LOCATION IN FLEMING AT ALL VOICE AND DATA OUTLET LOCATIONS.
- G. WHERE BOXES ARE INSTALLED IN CONCRETE BLOCK WALLS, THE BOX MOUNTING HEIGHT SHALL BE AT THE BLOCK JOINT AND THE DEVICES SHALL BE PROVIDED WITH A JUMBO COVERPLATE.
- H. ALL WIRES RUN BELOW GRADE, IN CONCRETE THAT IS IN DIRECT CONTACT WITH THE EARTH, OR MASONRY THAT IS IN DIRECT CONTACT WITH THE EARTH SHALL BE MET LOCATION LISTED.
- I. ALL ELECTRICAL BRANCH CIRCUITS SERVING OUTLETS AND BED ROOMS, DINING ROOMS, KITCHENS, LIBRARIES, RECREATION ROOMS, CLOSETS, FAMILY ROOMS, LIVING ROOMS, SUNROOMS, DEHS, HALLWAYS, PARLORS, LAUNDRY AREAS, OR SIMILAR ROOMS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER.
- J. FURNITURE LAYOUTS ARE FOR REFERENCE ONLY. COORDINATE THE FINAL LOCATION OF ELECTRICAL DEVICES AND OUTLETS WITH ARCHITECT, OWNER AND FINAL FURNITURE PLANS PRIOR TO INSTALLATION.
- K. PROVIDE LOCKING CLIPS ON ALL CIRCUIT BREAKERS SERVING TELECOMMUNICATION EQUIPMENT AND FIRE ALARM CONTROL PANELS.

PLAN NOTES:

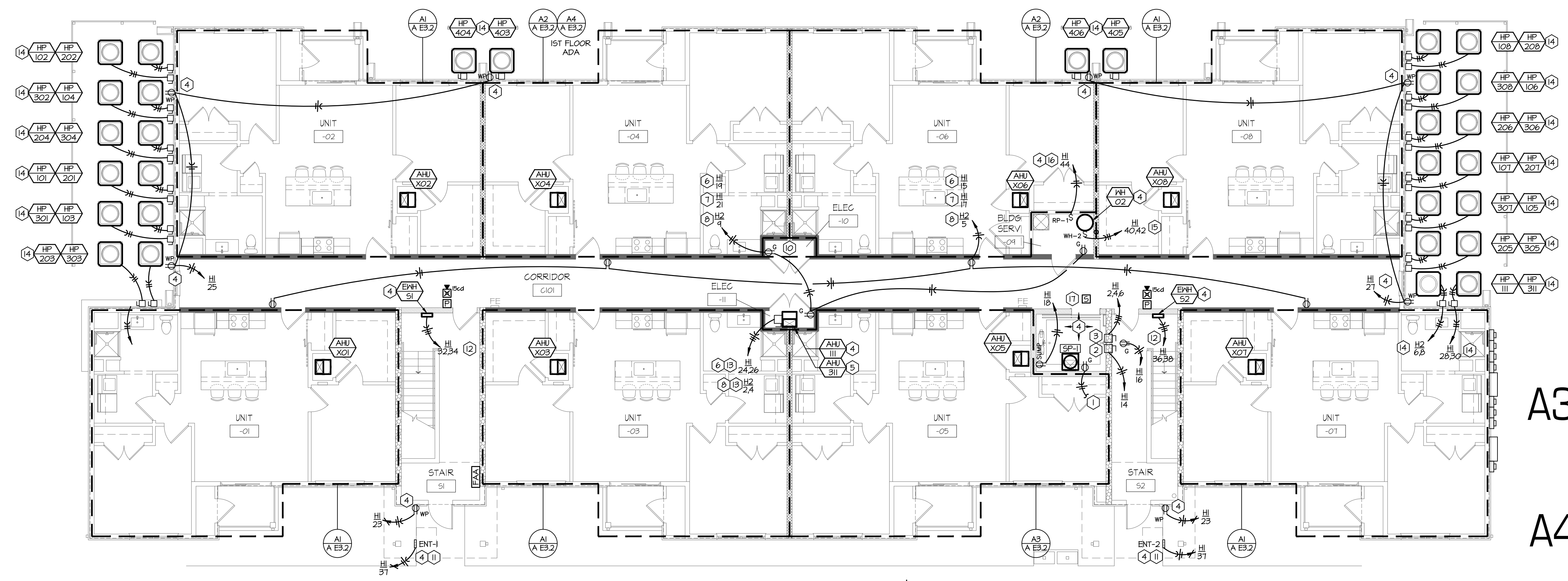
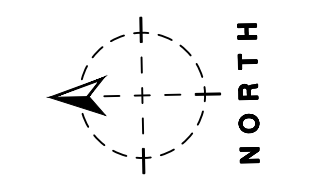
1. CONNECT TO ELEVATOR PIT LIGHTING CIRCUIT. RECEPTACLE SHALL BE CONNECTED TO UNSWITCHED HOT CONDUCTOR.
2. CAB LIGHTING: PROVIDE LOCKABLE 30A, 240V, 2 WIRE NEMA 1 DISCONNECT FIRED AT 20 AMPS FOR ELEVATOR CAB LIGHTING. PROVIDE (2) #12, (1) #12 IN 1/2" CONDUIT. INSTALL IN CONTROL SPACE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. ELEVATOR DISCONNECT: PROVIDE 60 AMP, 200V, 3 WIRE, NEMA 1 DISCONNECT FIRED PER MANUFACTURER'S REQUIREMENTS FOR MAIN ELEVATOR POWER THAT IS CAPABLE OF BEING LOCKED IN THE ON POSITION. FUSE SHALL BE TIME-DELAYED. PROVIDE DISCONNECT WITH AUXILIARY CONTACTS. PROVIDE WIRING TO ELEVATOR CONTROLLER. INSTALL IN CONTROL SPACE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE (3) #4 & #66 IN 1" CONDUIT.
4. FIXTURE/EQUIPMENT LOCATED ON FIRST FLOOR ONLY.
5. FIXTURE/EQUIPMENT LOCATED ON THIRD FLOOR ONLY.
6. FIRST FLOOR CIRCUIT.
7. SECOND FLOOR CIRCUIT.
8. THIRD FLOOR CIRCUIT.
9. PROVIDE 60"x48"x3/4" FIRE TREATED PLYWOOD TELEDATA BOARD. PROVIDE GROUNDING BUS AND CONNECT TO SYSTEM GROUND. PROVIDE (2) 4" CONDUIT FOR TELEDATA SERVICE. COORDINATE EXACT CONNECTION WITH SERVICE PROVIDER. PROVIDE 4" CONDUIT SLEEVES THROUGH FLOOR FOR TELECOM CABLING.
10. REFERENCE PARTIAL PLANS THIS SHEET FOR ELECTRICAL EQUIPMENT LOCATIONS ON ASSOCIATED LEVELS.
11. PROVIDE POWER CONNECTION TO DOOR ENTRY SYSTEM PER MANUFACTURER SPECS. COORDINATE REQUIREMENTS WITH AV CONTRACTOR PRIOR TO INSTALLATION.
12. PROVIDE ELECTRICAL CONNECTION TO UNIT AND HOMERUN WITH (3) #10 & #10 GROUND WIRE IN A 3/4" CONDUIT.
13. PROVIDE NEMA 1 60A/2P DISCONNECT SWITCH AND HOMERUN WITH (4) #8's & #106 IN A 3/4" CONDUIT.
14. PROVIDE NEMA 3R 30A/2P DISCONNECT SWITCH AND HOMERUN WITH (2) #10's & #106 IN A 3/4" CONDUIT.
15. PROVIDE HUBBLE 30A/2P TOGGLE DISCONNECT SWITCH AND HOMERUN WITH (2) #10's & #106 IN A 3/4" CONDUIT.
16. PROVIDE 20AMP HUBBELL TOGGLE SWITCH DISCONNECT FOR RECIRCULATION PUMP. CIRCUIT THROUGH AQUASTAT.
17. PROVIDE SMOKE DETECTOR FOR THE PURPOSE OF ELEVATOR RECALL AT EACH ELEVATOR DOOR AS SHOWN.
18. PROVIDE A FLOW SWITCH IN THE BRANCH SPRINKLER LINE SERVING ELEVATOR HOISTWAY LOCATED ON 4TH FLOOR. CONNECT INDICATOR TO ADJACENT RELAY AND INTERLOCK WITH SHUNT TRIP BREAKER TO DISCONNECT MAIN ELEVATOR POWER IF FLOW IS DETECTED.
19. PROVIDE SMOKE DETECTOR FOR THE PURPOSE OF ELEVATOR RECALL IN ELEVATOR HOISTWAY LOCATED ON 4TH FLOOR. INTERLOCK SMOKE DETECTOR WITH FIRE/SMOKE RELIEF MOTORIZED DAMPER.

PLAN NOTES: (CONT.)

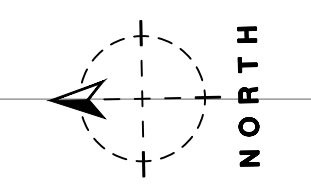
20. PROVIDE A HEAT DETECTOR ROUTED TO THE SHUNT TRIP BREAKER SERVING THE ELEVATOR TO DISCONNECT MAIN ELEVATOR POWER IN THE EVENT OF AN ALARM LOCATED ON THE 4TH FLOOR. HEAT DETECTOR SHALL BE LOCATED WITHIN 2'-0" OF EACH SPRINKLER HEAD SERVING THE HOISTWAY.
21. EXTEND ELEVATOR PHONE LINE TO PHONE OUTLET LOCATED AT 4TH FLOOR LANDING. COORDINATE LOCATION OF PHONE OUTLET AND PROVIDE CONNECTION TO THE ELEVATOR SYSTEM PER MANUFACTURER'S INSTRUCTIONS.



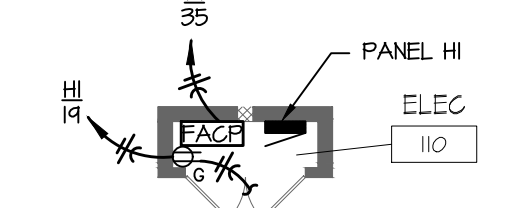
A2 4TH FLOOR POWER & SPECIAL SYSTEMS PLAN
SCALE: 1/8" = 1'-0"



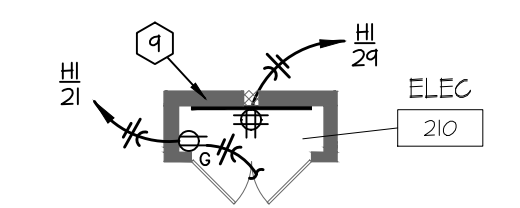
A1 1ST - 3RD FLOOR POWER & SPECIAL SYSTEMS PLAN
SCALE: 1/8" = 1'-0"



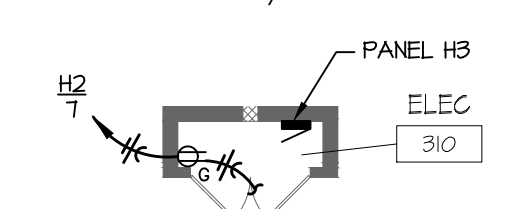
A3 1ST FLOOR POWER
SCALE: 1/8" = 1'-0"



A4 2ND FLOOR POWER
SCALE: 1/8" = 1'-0"



A5 3RD FLOOR POWER
SCALE: 1/8" = 1'-0"



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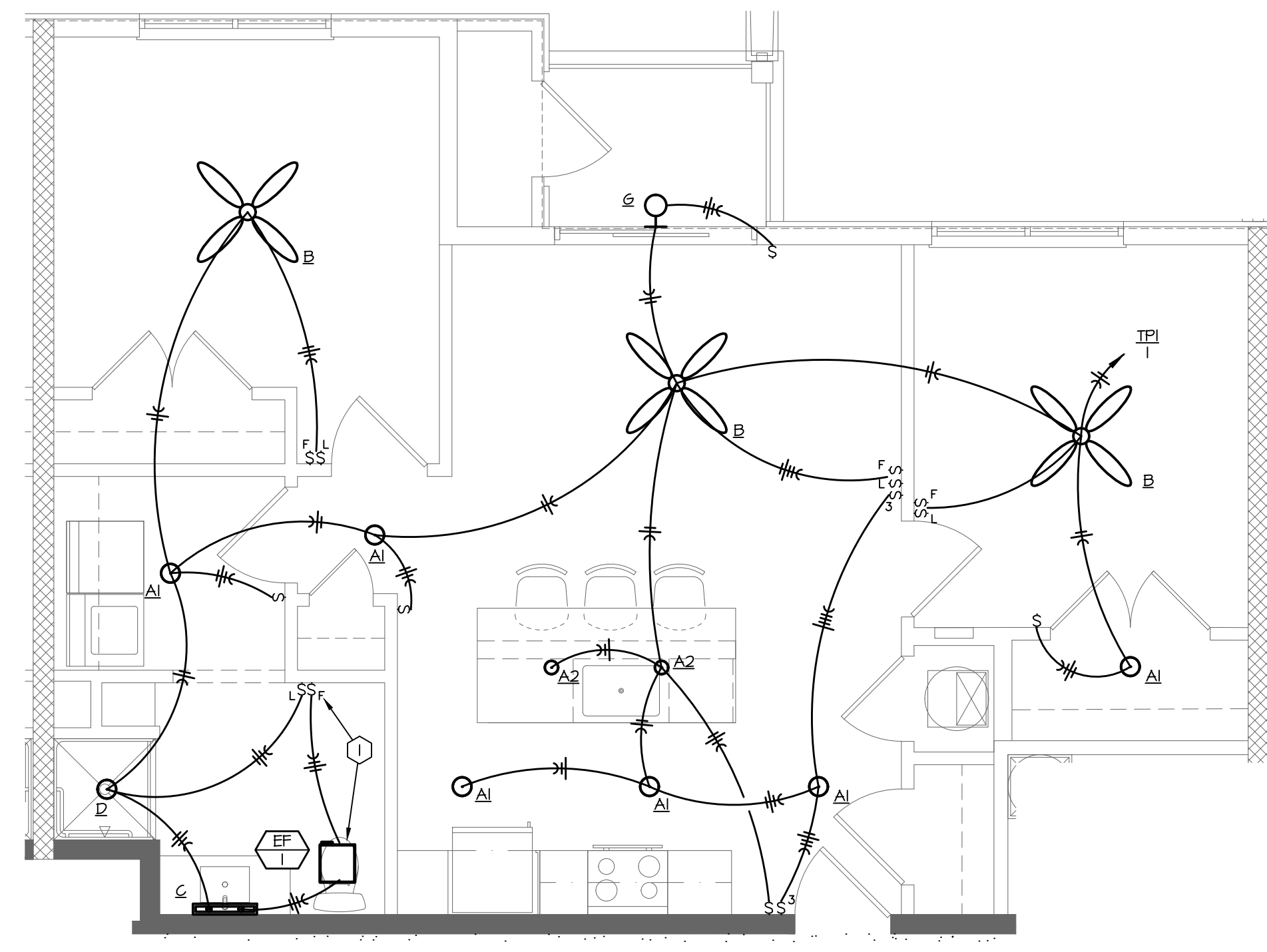
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GENERAL NOTES:

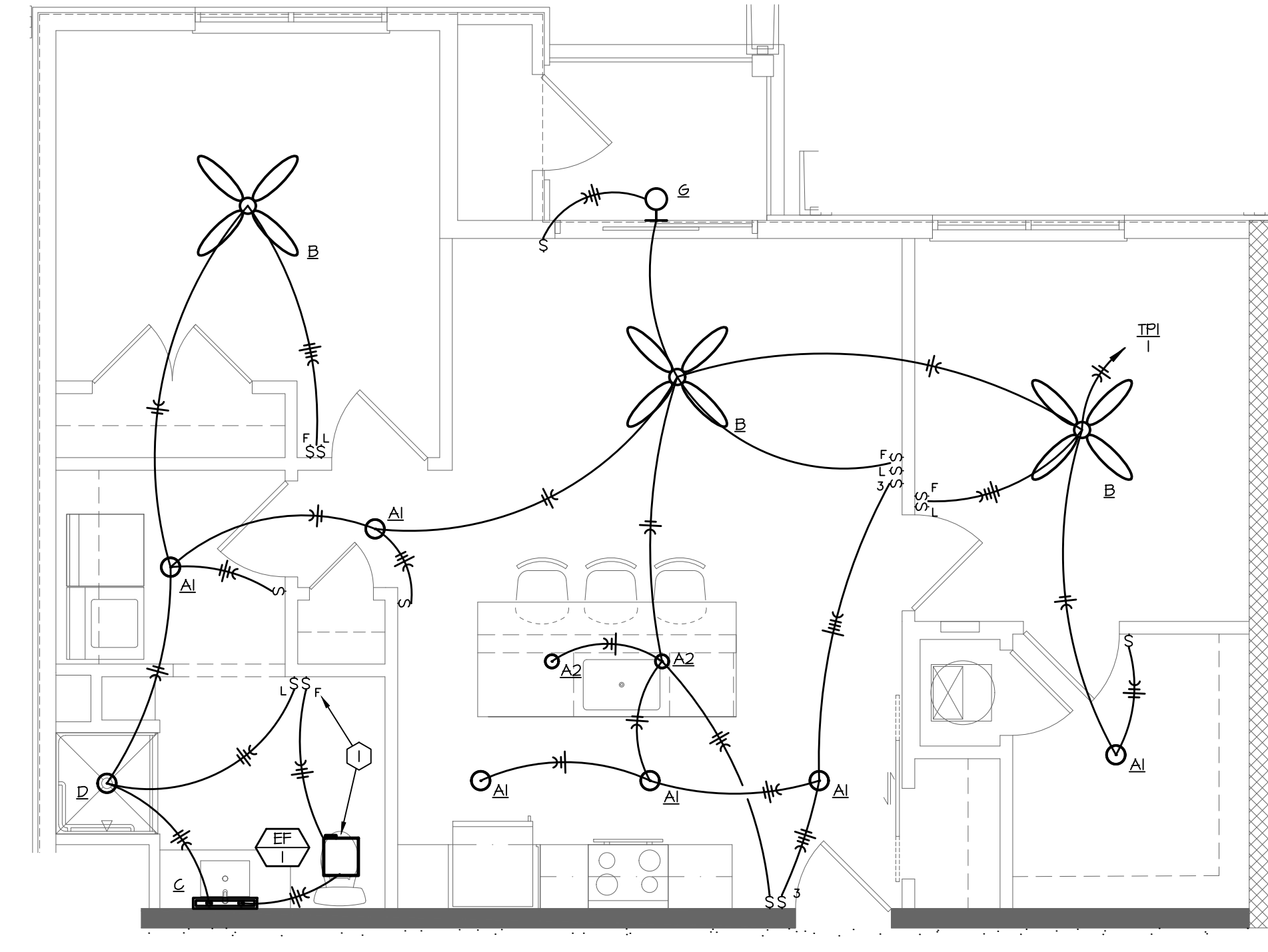
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- C. COORDINATE THE EXACT LIGHT FIXTURE LOCATIONS WITH THE ARCHITECTURAL DRAWINGS.
- D. ALL WIRES RUN BELOW GRADE, IN CONCRETE THAT IS IN DIRECT CONTACT WITH THE EARTH, OR MASONRY THAT IS IN DIRECT CONTACT WITH THE EARTH SHALL BE MET LOCATION LISTED.
- E. PROVIDE SEPARATE NEUTRALS FOR DIMMING CIRCUITS.
- F. ALL ELECTRICAL BRANCH CIRCUITS SERVING OUTLETS AND LIGHTING IN FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENs, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER.

PLAN NOTES:

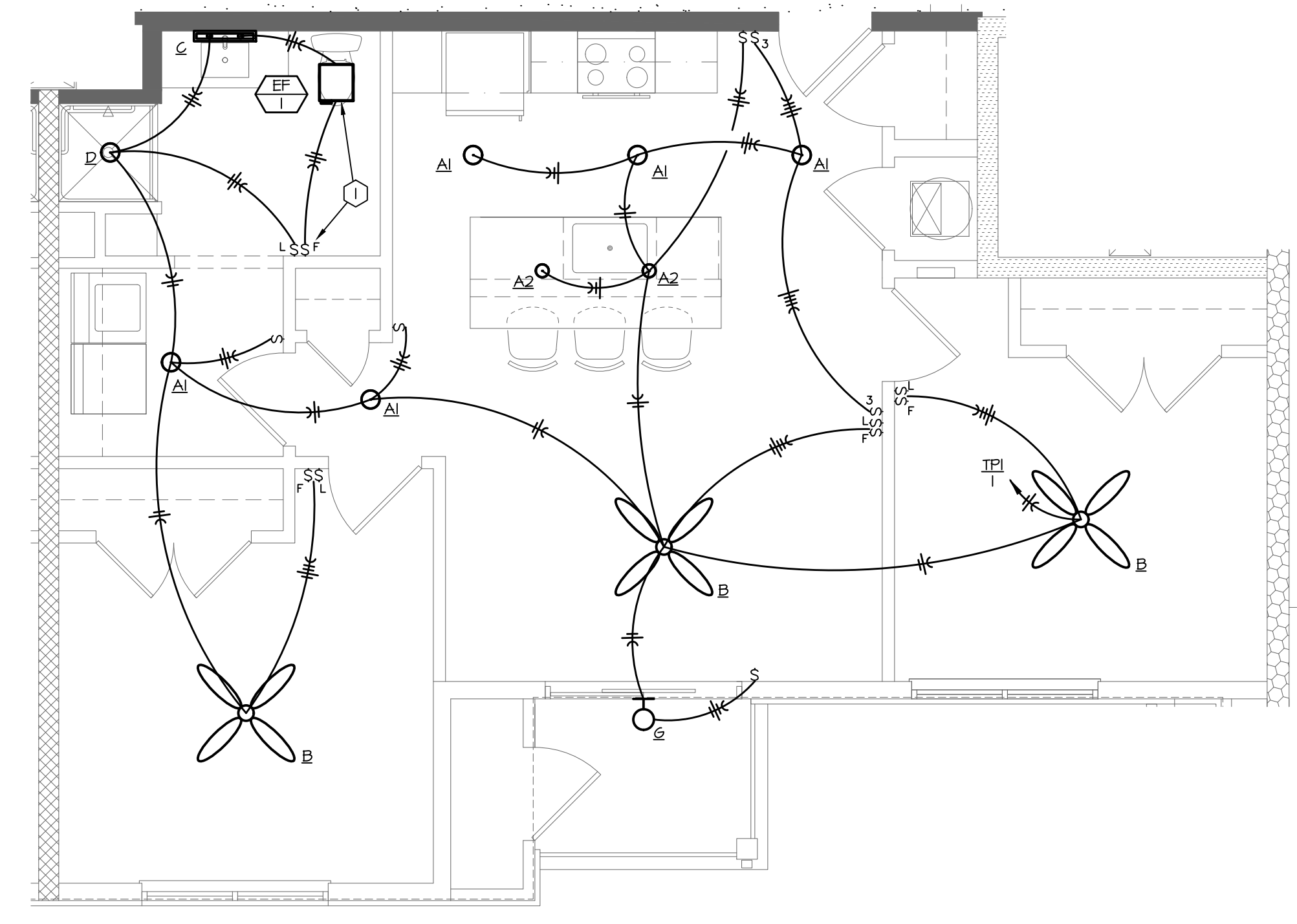
- I. PROVIDE SEPARATE SWITCHING FOR FAN AND LIGHT. EXHAUST FAN LIGHT TO BE SWITCHED WITH BATHROOM LIGHTING.



A2 ENLARGED LIGHTING PLAN
SCALE: 1/4" = 1'-0"



A1 ENLARGED LIGHTING PLAN
SCALE: 1/4" = 1'-0"



A3 ENLARGED LIGHTING PLAN
SCALE: 1/4" = 1'-0"



ARCHITECTURAL CORPORATION
OKLAHOMA CERTIFICATE
OF AUTHORITY NO. CA 02479

TIMBER RIDGE COTTAGES
SECTION 8, TOWNSHIP 18, RANGE 15
BROKEN ARROW, WAGONER COUNTY, OKLAHOMA

STARK WILSON DUNCAN ARCHITECTS INC.
3115 NICHOLS RD., STE 228 - KANSAS CITY, MO 64112 - T 816.531.1988 F 816.531.1978



ENLARGED
APARTMENT
BUILDING LIGHTING
PLAN

ISSUE DATE:
OCTOBER 18, 2019
REVISIONS:



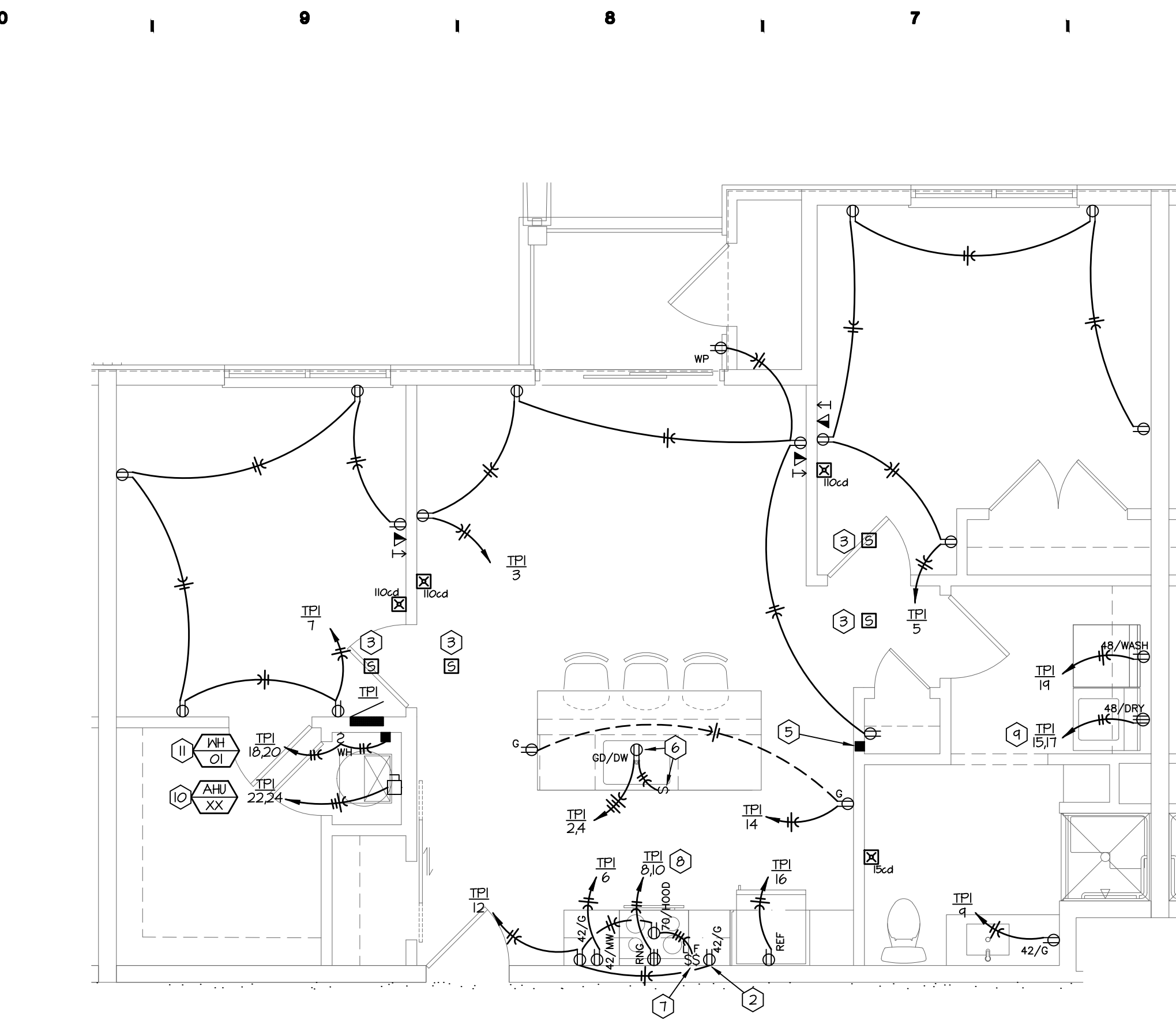
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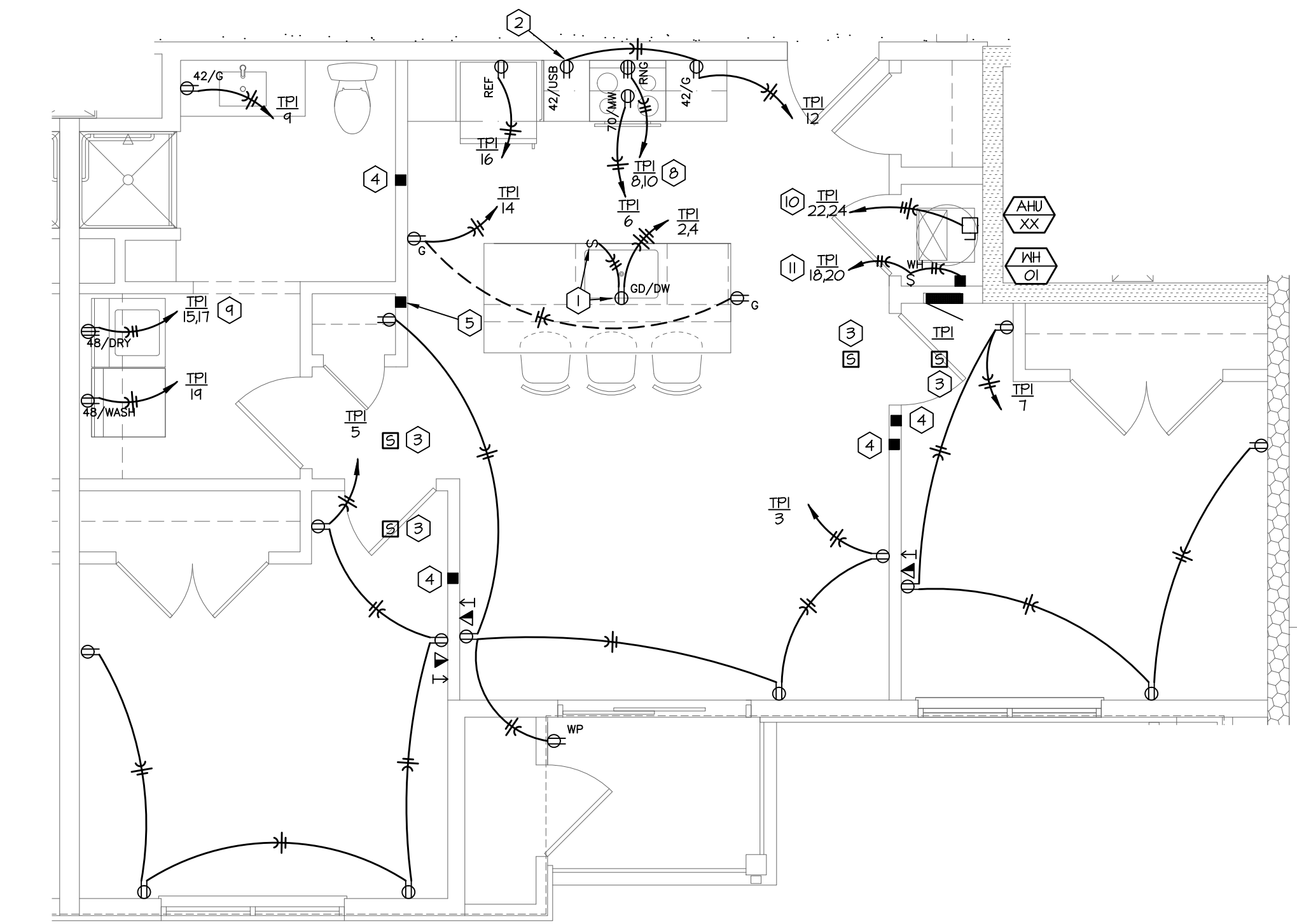
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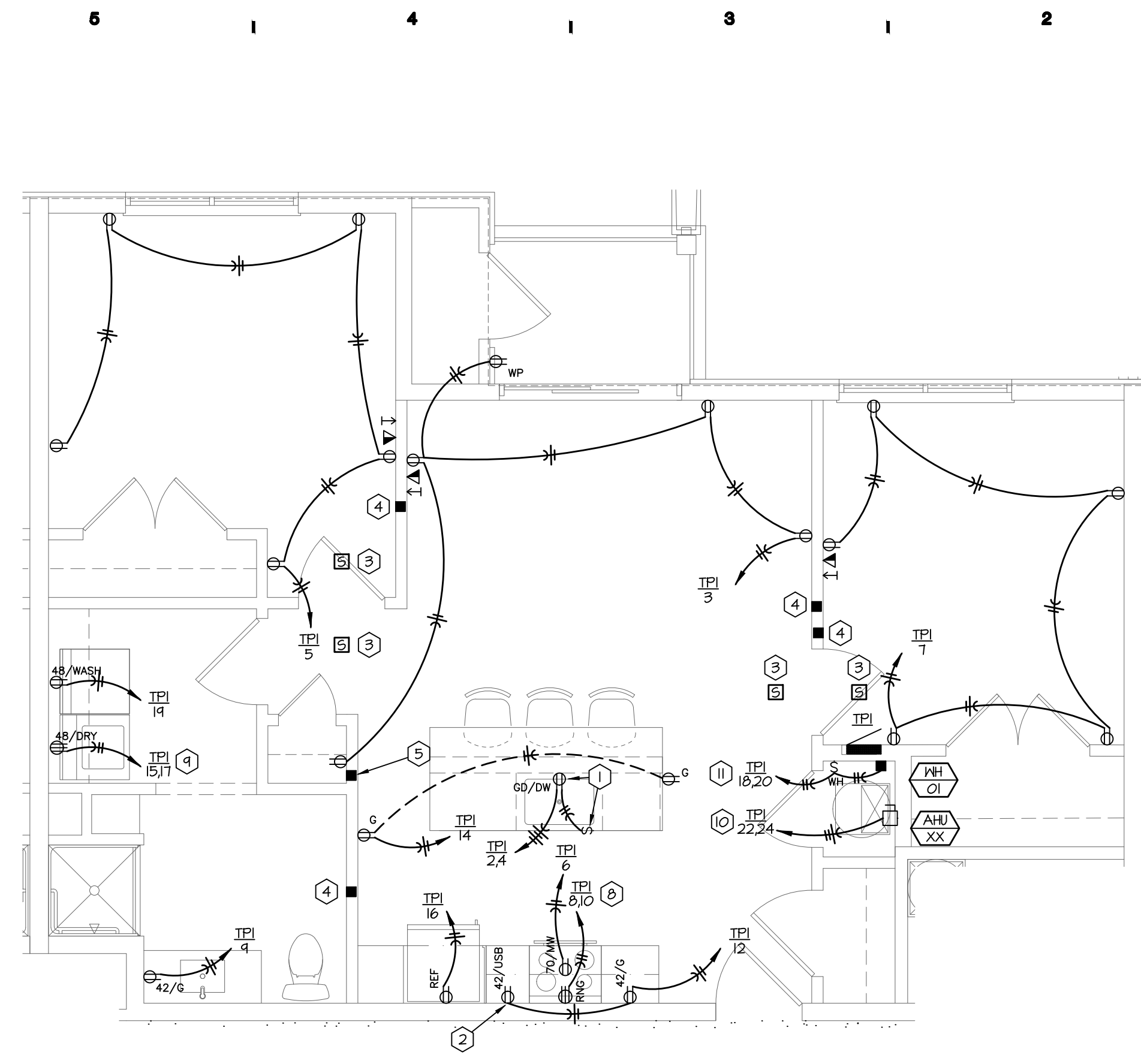
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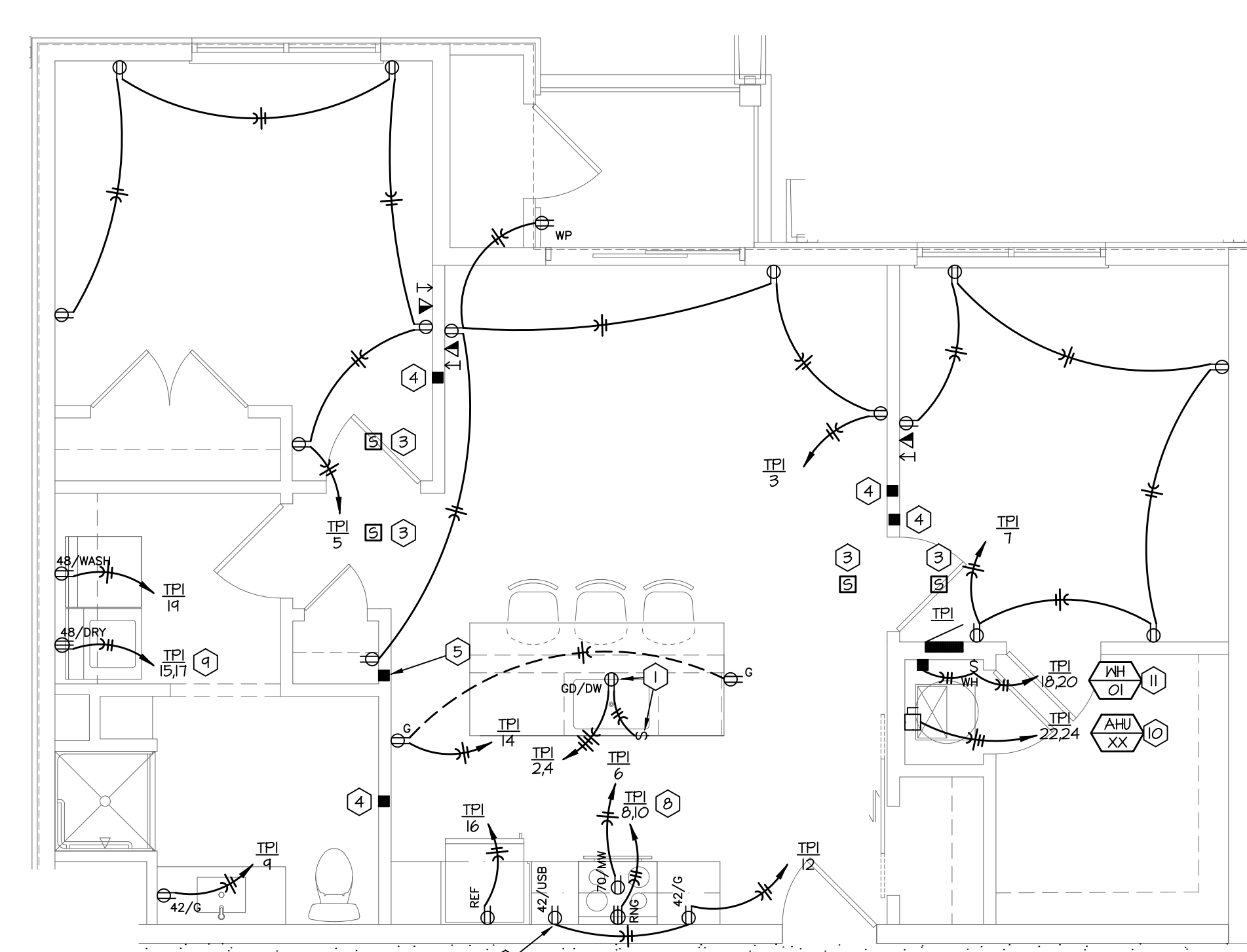
A4 ENLARGED POWER & SPECIAL SYSTEMS PLAN - ADA
SCALE: 1/4" = 1'-0"



A3 ENLARGED POWER & SPECIAL SYSTEMS PLAN
SCALE: 1/4" = 1'-0"



A2 ENLARGED POWER & SPECIAL SYSTEMS PLAN
SCALE: 1/4" = 1'-0"



A1 ENLARGED POWER & SPECIAL SYSTEMS PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

- A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE GENERAL EXTENT OF THE WORK. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL PULL BOXES, JUNCTION BOXES AND INCIDENTAL MATERIALS AND LABOR FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
- B. ELECTRICAL CONTRACTOR SHALL DERATE CONDUCTORS AS REQUIRED BY THE N.E.C. WHEN GROUPED IN COMMON RACEWAYS.
- C. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH CONTRACTOR PROVIDED SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN THE SUBMITTALS AND ELECTRICAL DRAWINGS.
- D. CONTRACTOR SHALL OFFSET OUTLET BOXES ON OPPOSITE SIDES OF A COMMON WALL TO PREVENT SOUND TRANSMISSION BETWEEN ADJOINING ROOMS. BOXES SHALL BE A MINIMUM OF 12" APART, AND MUST BE INSTALLED IN SEPARATE STUD CAVITIES.
- E. ALL LOW VOLTAGE WIRES NOT ROUTED IN CONDUIT SHALL BE PROVIDED AS FLENUM RATED CABLES.
- F. PROVIDE JUNCTION BOXES AND 3/4" CONDUIT WITH FLENUM STRINGUPS TO ACCESSIBLE LOCATION IN FLENUM AT ALL VOICE AND DATA OUTLET LOCATIONS.
- G. WHERE BOXES ARE INSTALLED IN CONCRETE BLOCK WALLS, THE BOX MOUNTING HEIGHT SHALL BE AT THE BLOCK JOINT AND THE DEVICES SHALL BE PROVIDED WITH A JUMBO COVERPLATE.
- H. ALL WIRES RUN BELOW GRADE, IN CONCRETE THAT IS IN DIRECT CONTACT WITH THE EARTH OR MASONRY THAT IS IN DIRECT CONTACT WITH THE EARTH SHALL BE WET LOCATION LISTED.
- I. ALL ELECTRICAL BRANCH CIRCUITS SERVING OUTLETS AND BED ROOMS, DINING ROOMS, KITCHENS, LIBRARIES, RECREATION ROOMS, CLOSETS, FAMILY ROOMS, LIVING ROOMS, SUNROOMS, DEHS, HALLWAYS, FLOORS, LAUNDRY AREAS, OR SIMILAR ROOMS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER.
- J. FURNITURE LAYOUTS ARE FOR REFERENCE ONLY. COORDINATE THE FINAL LOCATION OF ELECTRICAL DEVICES AND OUTLETS WITH ARCHITECT, OWNER AND FINAL FURNITURE PLANS PRIOR TO INSTALLATION.
- K. PROVIDE LOCKING CLIPS ON ALL CIRCUIT BREAKERS SERVING TELECOMMUNICATION EQUIPMENT AND FIRE ALARM CONTROL PANELS.
- L. (FOR POWER PLANS WITH SMOKE DAMPERS) REFERENCE MECHANICAL SHEETS FOR LOCATION OF SMOKE DAMPERS. PROVIDE 20A/20V POWER TO SMOKE DAMPERS AND INTERLOCK WITH FIRE ALARM RELAY(S). CIRCUIT SHALL ONLY SERVE SMOKE DAMPERS.
- M. (FOR SPECIAL SYSTEM 4 POWER PLANS WITH SMOKE DAMPERS) REFERENCE MECHANICAL PLANS FOR LOCATION OF SMOKE DAMPERS. PROVIDE 30A/20V POWER TO SMOKE DAMPERS FROM CIRCUIT ONLY SERVING SMOKE DAMPERS. PROVIDE AND INTERLOCK FIRE ALARM RELAY(S) TO CLOSE SMOKE DAMPERS UPON SMOKE DETECTION.
- N. (FOR SPECIAL SYSTEM PLANS) PROVIDE DUCT SMOKE DETECTORS IN RETURN AND SUPPLY AIR PATHS FOR AIR HANDLING EQUIPMENT 2,000 CFM AND LARGER AND WHERE SHOWN ON PLANS. INTERLOCK WITH AIR HANDLING EQUIPMENT TO SHUT DOWN UNIT UPON SMOKE DETECTION.
- O. COORDINATE THE EXACT LIGHT FIXTURE LOCATIONS WITH THE ARCHITECTURAL DRAWINGS.
- P. PROVIDE SEPARATE NEUTRALS FOR DIMMING CIRCUITS.

PLAN NOTES:

- I. PROVIDE RECEPTACLE BELOW SINK FOR GARBAGE DISPOSAL AND DISHWASHER. SURFACE MOUNTED SWITCH BELOW COUNTER FOR GARBAGE DISPOSAL. REFERENCE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION. SWITCH TOP HALF OF RECEPTACLE TO CONTROL GARBAGE DISPOSAL.
2. PROVIDE USB RECEPTACLE DOWNSTREAM OF GFCI RECEPTACLE.
3. PROVIDE ADDRESSABLE SMOKE DETECTOR WITH LOW FREQUENCY SOUNDER BASE.
4. PROVIDE JUNCTION BOX AT 6'-0" AFF WITH CONDUIT AND WIRING BACK TO FACP, CAPABLE OF SUPPORTING AN ADDRESSABLE FIRE ALARM VISUAL DEVICE.
5. PROVIDE CONDUIT FROM DATA/TV TO CLOSET.
6. PROVIDE RECEPTACLE BELOW SINK FOR GARBAGE DISPOSAL AND DISHWASHER. PROVIDE SURFACE MOUNTED TOGGLE SWITCH BELOW SINK FOR GARBAGE DISPOSAL IN ADA UNITS. REFERENCE ARCHITECTURAL FOR EXACT LOCATION. SWITCH TOP HALF OF RECEPTACLES TO CONTROL GARBAGE DISPOSAL.
7. PROVIDE FAN AND LIGHT SWITCH FOR ADA RANGE EXHAUST HOOD.
8. PROVIDE A NEMA 14-50 RECEPTACLE AND HOMERUN WITH (3) #8 & #10 GROUND WIRE IN A 3/4" CONDUIT.
9. PROVIDE A NEMA 14-30 RECEPTACLE AND HOMERUN WITH (3) #10 & #10 GROUND WIRE IN A 3/4" CONDUIT.
10. MAKE ELECTRICAL CONNECTION TO AHU WITH (3) #8 & #10 GROUND IN A 3/4" CONDUIT.
11. PROVIDE HUBBLE 30A/2P DISCONNECT TOGGLE SWITCH. MAKE ELECTRICAL CONNECTION TO PH WITH (2) #10 & #10 GROUND IN A 3/4" CONDUIT.



ARCHITECTURAL CORPORATION
OKLAHOMA CERTIFICATE
OF AUTHORITY NO. CA 02479

TIMBER RIDGE COTTAGES
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STARK WILSON DUNCAN ARCHITECTS, INC.
3115 NICHOLS RD., STE 228 - KANSAS CITY, MO 64112 - T: 816.531.1988 F: 816.531.1978



ENLARGED
APARTMENT BUILDING
POWER & SPECIAL
SYSTEMS PLAN

ISSUE DATE:
OCTOBER 18, 2019
REVISIONS:



PROJECT NO.: 1902

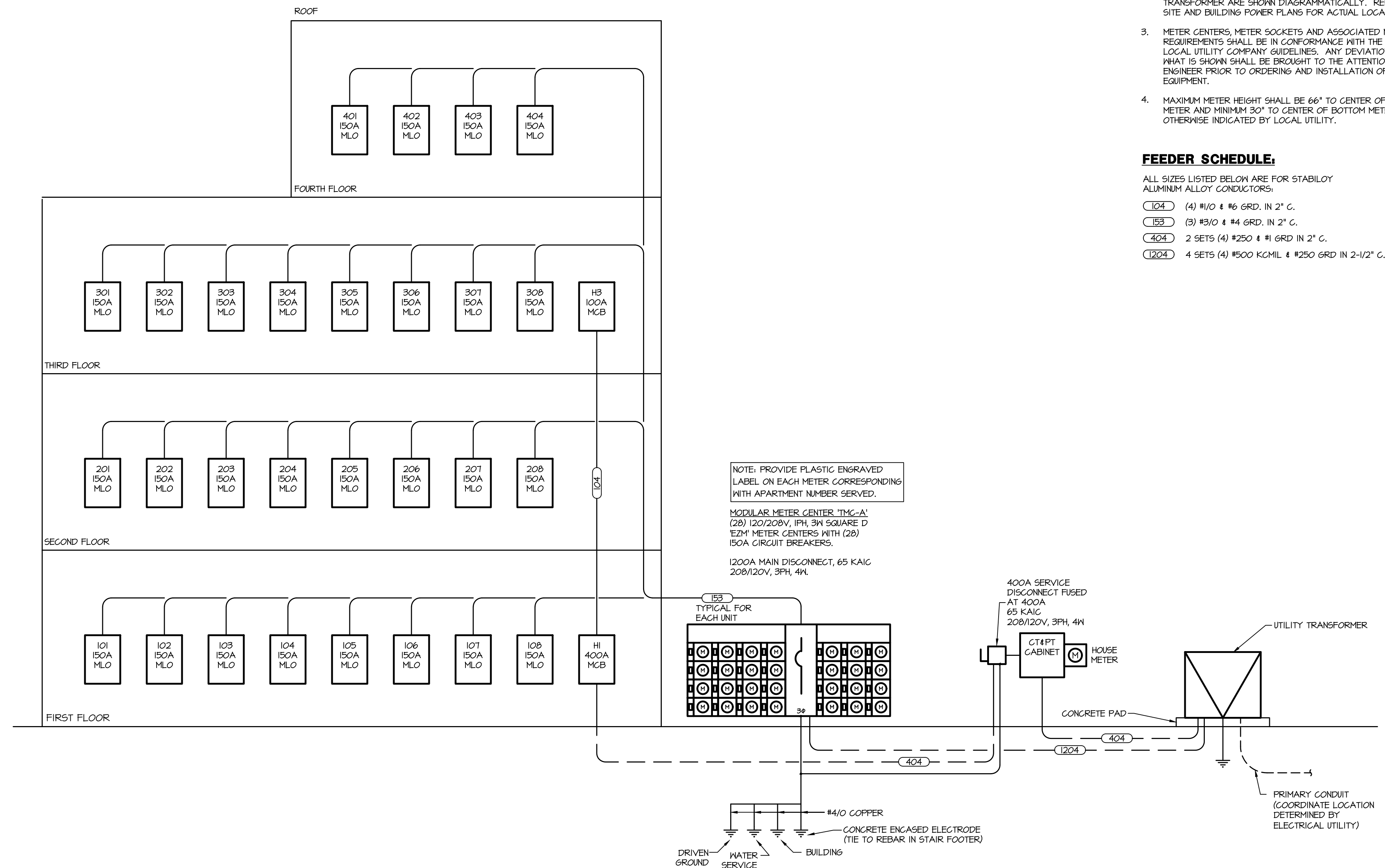
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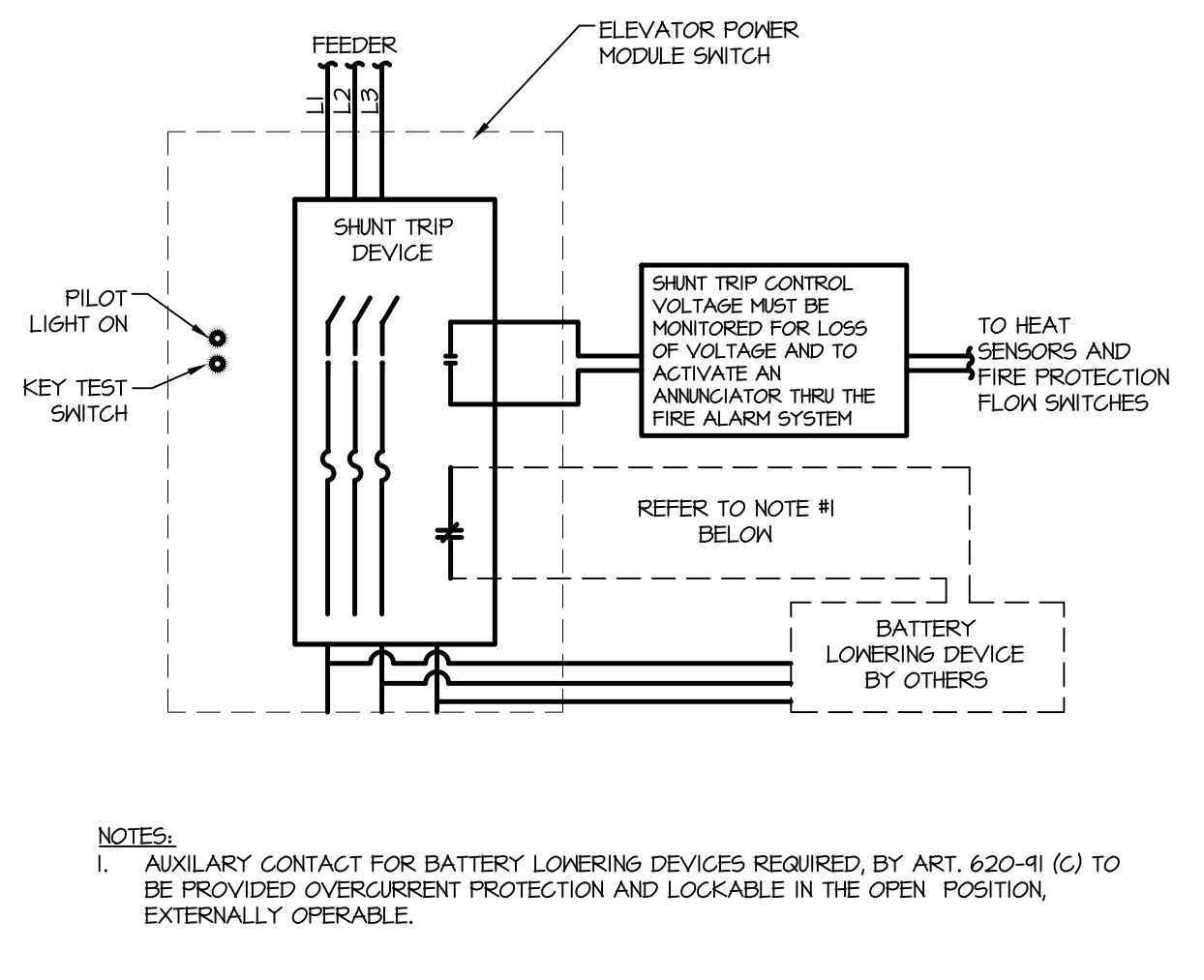
HOUSE PANELS ELECTRICAL LOAD SUMMARY			
SERVICE VOLTAGE: 120/208/3 PH/4 W			
LOAD DESCRIPTION	CONNECTED VA	DEMAND FACTOR	DEMAND VA
AIR CONDITIONING	-	100%	-
SPACE HEAT	23,584	125%	29,480
YEAR ROUND HVAC	4,860	125%	6,075
LIGHTING	3,152	125%	3,940
RECEPT	1,020	100%	1,020
MOTORS	1,820	125%	2,275
COOKING	-	100%	-
MISCELLANEOUS	6,000	100%	6,000
TOTAL SERVICE EQUIPMENT	46,436	VA	75,054
SERVICE CONDUCTOR AMPACITY		AMPS	208.48

ELECTRICAL LOAD SUMMARY ESTIMATE (PER NEC 220.84)	
APARTMENT BUILDING METER CENTER	TOTAL
NUMBER OF A1 UNITS	20
APARTMENT A1 SQUARE FOOTAGE	980
NUMBER OF A2 UNITS	4
APARTMENT A2 SQUARE FOOTAGE	925
NUMBER OF A3 UNITS	4
APARTMENT A3 SQUARE FOOTAGE	935
TOTAL NUMBER OF UNITS	28
NET APARTMENT SQUARE FOOTAGE	21,040
(2) 1500 VA SMALL APPLIANCE BRANCH CIRCUIT	84,000
3 VA /SQFT GENERAL LIGHTING AND RECEPTACLES	81,120
ELECTRIC RANGE (1000 VA)	25,400
DISHWASHER (1200 VA)	3,360
GARBAGE DISPOSAL (1120 VA)	3,136
CLOTHES WASHER (1500 VA)	4,200
CLOTHES DRYER (5000 VA)	14,000
MICROWAVE (1500 VA)	4,200
AHU ELECTRIC HEAT (8KW)	22,400
HEAT PUMP (3040 VA)	8,512
ELECTRIC WATER HEATER (4500 VA)	12,600
TOTAL UNIT LOADS (VA)**	114,400
DEMAND FACTOR (FROM NEC T220.84)	0.33
UNIT DEMAND LOAD (VA)**	37,752
UNIT DEMAND LOAD (AMPS)	1041.9
TOTAL DEMAND LOAD (AMPS)	1041.9
TOTAL DISCONNECT SIZE	1200 A

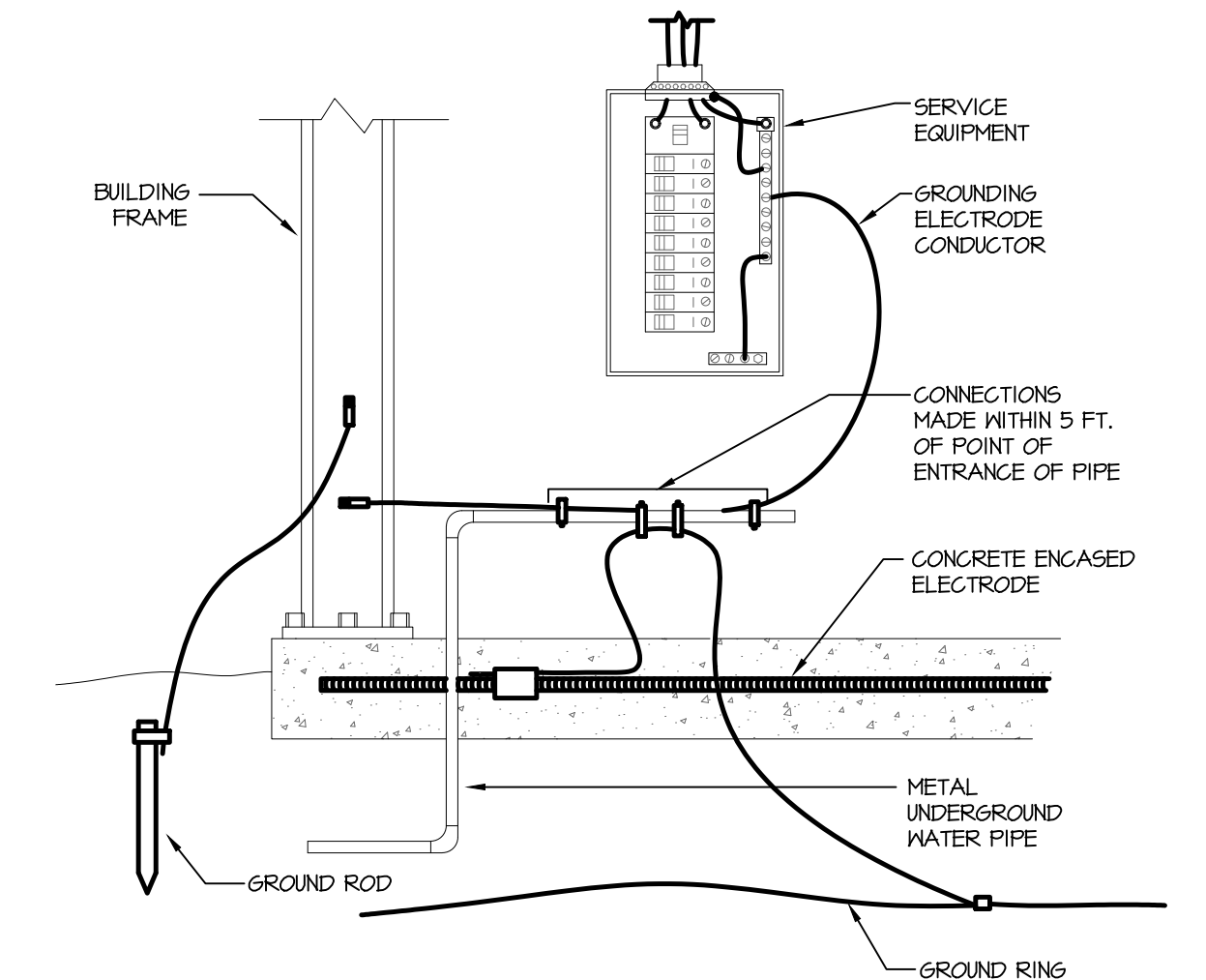
* VALUE IS THE SUM OF THE LOADS FROM THE PREVIOUS TEN LINES.
 ** VALUE IS THE TOTAL UNITS LOADS MULTIPLIED BY THE BUILDING DEMAND FACTOR.



A1 Apartment Building Electrical Riser Diagram
 SCALE: NTS



A3 Shunt Trip Device Wiring Diagram
 Scale: Not to Scale



A2 Grounding Electrode System
 Scale: Not to Scale

- GENERAL NOTES:**
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE ROUTING OF ALL FEEDERS THROUGH BUILDING.
 - METERING EQUIPMENT, BUILDING DISCONNECTS AND TRANSFORMER ARE SHOWN DIAGRAMMATICALLY. REFER TO SITE AND BUILDING POWER PLANS FOR ACTUAL LOCATIONS.
 - METER CENTERS, METER SOCKETS AND ASSOCIATED METER REQUIREMENTS SHALL BE IN CONFORMANCE WITH THE NEG AND LOCAL UTILITY COMPANY GUIDELINES. ANY DEVIATIONS FROM WHAT IS SHOWN SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO ORDERING AND INSTALLATION OF EQUIPMENT.
 - MAXIMUM METER HEIGHT SHALL BE 66" TO CENTER OF TOP METER AND MINIMUM 30" TO CENTER OF BOTTOM METER UNLESS OTHERWISE INDICATED BY LOCAL UTILITY.

- FEEDER SCHEDULE:**
- ALL SIZES LISTED BELOW ARE FOR STABILLOY ALUMINUM ALLOY CONDUCTORS:
- 1204 (4) #1/0 & #6 GRD. IN 2" C.
 - 1253 (3) #3/0 & #4 GRD. IN 2" C.
 - 4024 2 SETS (4) #250 & #1 GRD IN 2" C.
 - 12024 4 SETS (4) #500 KCMIL & #250 GRD IN 2-1/2" C.



ARCHITECTURAL CORPORATION
 OKLAHOMA CERTIFICATE
 OF AUTHORITY NO. CA 02479

TIMBER RIDGE COTTAGES
 SECTION 8, TOWNSHIP 18, RANGE 15
 BROKEN ARROW, WAGONER COUNTY, OKLAHOMA

STARK WILSON DUNCAN ARCHITECTS INC.
 315 NICHOLS RD., STE 228 - KANSAS CITY, MO 64112 - T: 816.531.1898 F: 816.531.1978



APARTMENT
 ELECTRICAL RISER &
 DETAILS

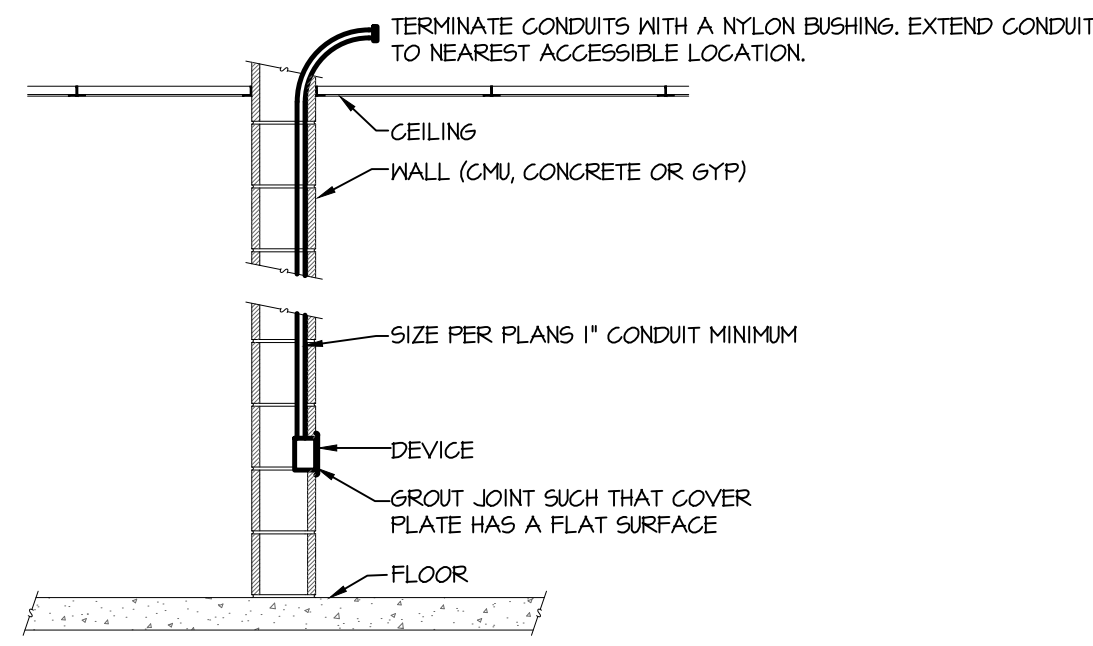
ISSUE DATE:
 OCTOBER 18, 2019
 REVISIONS:

H&B ENGINEERS
HOSS & BROWN
 11205 West 79th Street
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 H&B PROJECT NUMBER: 1920580
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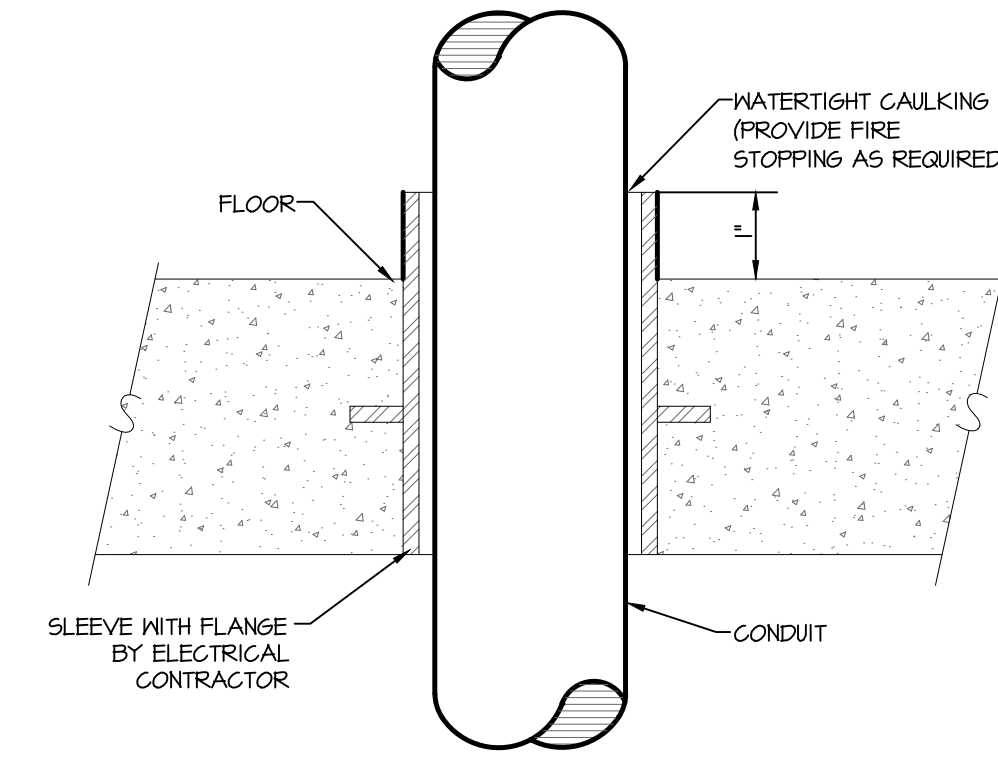
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- NOTES:**
1. DEVICE MOUNTED AT NORMAL RECEPTACLE HEIGHT UNLESS NOTED OTHERWISE. REFER TO PLANS FOR MOUNTING HEIGHTS.
 2. REFER TO SPECS FOR OTHER INSTALLATION REQUIREMENTS.

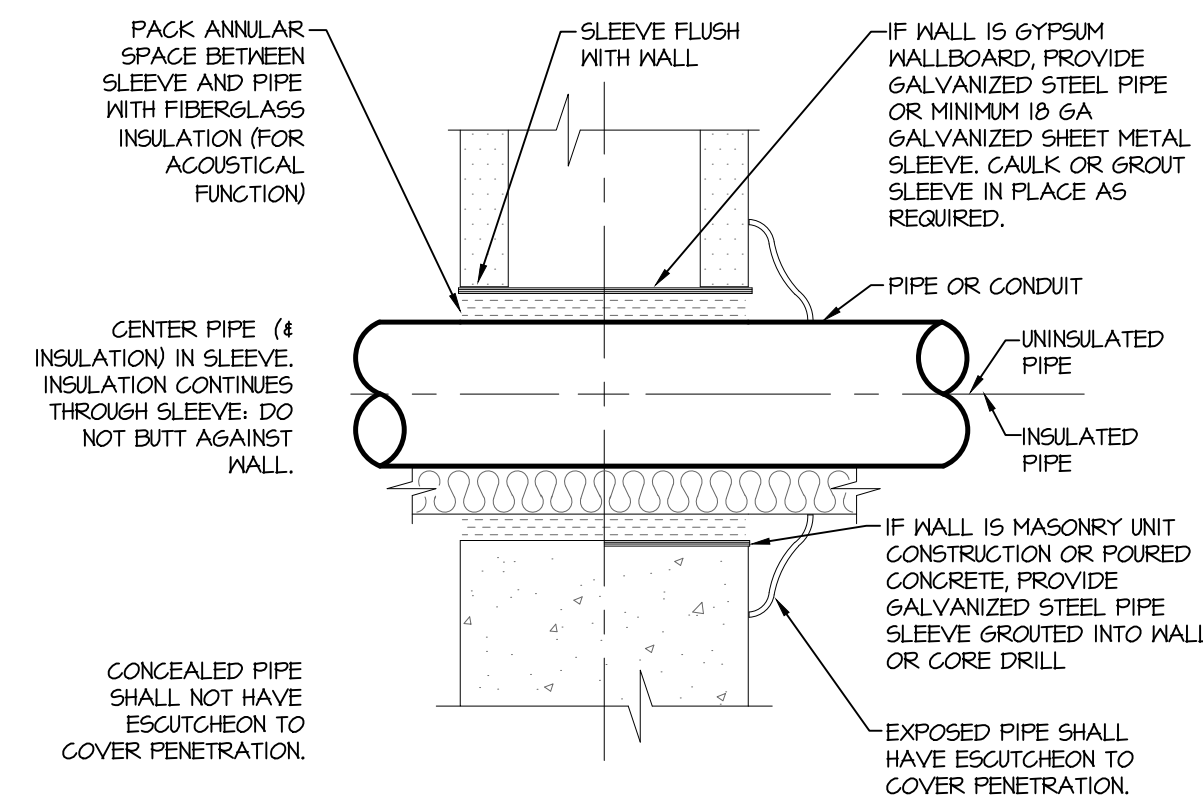
A3 Data Conduit and Back Box

Scale: Not to Scale



A2 Conduit Penetration Through Floor

Scale: Not to Scale



- NOTES:**
1. REFER TO ARCHITECTURAL DRAWINGS FOR WALL LOCATIONS, REFER TO SPECIFICATIONS FOR ALTERNATIVE INSTALLATIONS. COORDINATE REQUIREMENTS WITH GENERAL CONTRACTOR.

A1 Conduit Penetration Through Non-Firewall

Scale: Not to Scale

LIGHT FIXTURE SCHEDULE

MARK	MANUFACTURER	MODEL	LAMP DATA			VOLTS	MOUNTING	TOTAL WATTS	DESCRIPTION	NOTES
			LUMENS	TYPE	COLOR (K)					
A1	SIGNIFY	5TRB30K10	1000	LED	3000	120	SURFACE	14.2	1" SLIM SURFACE LED	5
A2	SIGNIFY	55RB30K1	650	LED	3000	120	SURFACE	10	5" SLIM SURFACE LED	5
B	HUNTER	54242	2000	LED	3000	120	PENDANT	26	52" CEILING FAN W/LED	5
C	MAC LIGHTING	BRINK M6-T1636-30	2445	LED	3000	120	HALL	30	36" VANITY FIXTURE	25
D	PROGRESS	P8022-28-30K	1050	LED	3000	120	SURFACE	17	7" SHOWER FIXTURE	5
G	KICHLER	ASHLAND BAY 16" 4495TINZC	1600	LED 150W EQ.	3000	120	SURFACE	15	16" 1 LIGHT EXTERIOR WALL SCONCE	5/10
HI	HE WILLIAMS	T5R-4-L30/B30-DRV-120	3200	LED	3000	120	SURFACE	23	4" LENSED LED STRIP	
H2	HE WILLIAMS	T5R-2-L15/B30-DRV-120	1500	LED	3000	120	SURFACE	12	2" LENSED LED STRIP	
JE	GE	ALV2-1-AT-03-T-38-1D-S-A-Q-E-ST-K-Q-W	3000	LED	3000	120	SURFACE	20	4" SURFACE LIGHT W/SENSOR W/EM BATTERY	3
K	HE WILLIAMS	96-4-L40/B30-HIAFR-MET/1-DRV-UNV	4000	LED	3000	120	SURFACE	40	FULLY ENCLOSED GASKETED ELEVATOR FIT FIXTURE	
X	DUAL-LITE	35SRNEI	-	LED	-	120	SEE PLANS	4	INDOOR LED EXIT SIGN W/ BATTERY	14
XB	DUAL-LITE	LZZ-03L	-	LED	-	120	HALL	4	DIAL HEAD LED BUGEYE	14
AA	MCGRAW-EDISON	15T-B02-LED-EI-G2M-P120-CMB	4244	LED	4000	120	HALL	42	LED EXTERIOR WALL MOUNT W/PHOTOCELL 4 CMB	5/10

- NOTES:**
1. PROVIDE NUMBER OF FACES AND DIRECTIONAL ARROWS TO MATCH WHAT IS SHOWN ON DRAWINGS.
 2. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
 3. PROVIDE WITH INTEGRAL BATTERY BACK-UP DRIVER.
 4. PROVIDE WITH SELF-TESTING / SELF-DIAGNOSTICS.
 5. VERIFY FINISH WITH ARCHITECT PRIOR TO ORDERING.
 6. MOUNT FIXTURE CENTERED ABOVE DOORWAY AT 8'-0" AFF. SEE ARCHITECTURAL FOR REFERENCE.
 7. MOUNT FIXTURE AT 8'-6" AFF TO CENTER OF FIXTURE. COORDINATE WITH ARCHITECTURAL ELEVATIONS.
 8. PROVIDE WITH PHOTOCONTROL.
 9. PROVIDE WITH COLD WEATHER BATTERY.
 10. PROVIDE EQUIVALENT LED BUILD FOR FIXTURE.

- GENERAL NOTES:**
- A. PROVIDE ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION.
 - B. REFERENCE PLANS FOR FIXTURES REQUIRING EMERGENCY DRIVERS.
 - C. CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING ALL FIXTURES.
 - D. MANUFACTURER EQUALS ACCEPTED UPON ENGINEERS APPROVAL.

DESCRIPTION: 100A MCB		100% Neutral Bus		VOLTAGE: 120/208V, 3PH, 4 WIRE		
22 KAIC RATING		TOTAL CONNECTED LOAD: 12kW+ 34A		DEMANDED LOAD CONTINUOUS: 15kW+ 41A		
NO	LOAD (W)	LOAD DESCRIPTION	AMP P	AMP S	LOAD (W)	NO
1	613	LTS - 3RD & 4TH FLOORS	1 20	A 40	3500	2
3		SPARE	1 20	B	3500	4
5	720	RCPT - 3RD FLOOR GENERAL	1 20	C 25	1215	6
7	360	RCPT - 4TH FLOOR GENERAL	1 20	A	1215	8
9	540	RCPT - 3RD FLOOR CLOSETS	1 20	B 20	100	10
11	540	RCPT - 4TH FLOOR CLOSETS	1 20	C 20		12
13		SPARE	1 20	A 20		14
15		SPARE	1 20	B 20		16
17		SPARE	1 20	C 20		18
19		SPARE	1 20	A 20		20
21		SPARE	1 20	B 20		22
23		SPARE	1 20	C 20		24
25		SPARE	1 20	A 20		26
27		SPARE	1 20	B 20		28
29		SPARE	1 20	C 20		30

DESCRIPTION: 400A MCB		100% Neutral Bus		VOLTAGE: 120/208V, 3PH, 4 WIRE		
65 KAIC RATING		TOTAL CONNECTED LOAD: 63kW+ 175A		DEMANDED LOAD CONTINUOUS: 75kW+ 208A		
NO	LOAD (W)	LOAD DESCRIPTION	AMP P	AMP S	LOAD (W)	NO
1	745	LTS - 1ST & 2ND FLOORS	1 20	A 60	5525	2
3	160	LTS - NORTH STAIRWELL	1 20	B	5525	4
5	160	LTS - SOUTH STAIRWELL	1 20	C	5525	6
7	220	LTS - ELEV. PIT	1 20	A 20		8
9	84	LTS - EXTERIOR WALLPACKS	1 20	B 20		10
11	460	LTS - EXTERIOR POLES	2 20	C 20		12
13	460	RCPT - 1ST FLR GENERAL	1 20	A 20	250	14
15	120	RCPT - 2ND FLR GENERAL	1 20	B 20	180	16
17	120	RCPT - 2ND FLR GENERAL	1 20	C 20	1180	18
19	540	RCPT - 1ST FLR CLOSETS	1 20	A 20		20
21	540	RCPT - 2ND FLR CLOSETS	1 20	B 20		22
23	360	RCPT - EXT WEST	1 20	C 40	3500	24
25	720	RCPT - EXT NORTH MAINTENANCE	2 20	A	3500	26
27	720	RCPT - EXT SOUTH MAINTENANCE	2 20	B 25	1215	28
29	360	RCPT - 2ND FLR TELEDATA	1 20	C	1215	30
31		SPARE	1 20	A 30	2346	32
33		SPARE	1 20	B	2346	34
35	1000	MISC - FACP	1 20	C 30	2346	36
37	500	MISC - ENTRY SYSTEM	1 20	A	2346	38
39		SPARE	1 20	B 30	2250	40
41		SPARE	1 20	C	2250	42
43		SPARE	1 20	A 20	540	44
45		SPARE	1 20	B 20		46
47		SPARE	1 20	C 20		48
49		SPARE	1 20	A 20		50
51		SPARE	1 20	B 20		52
53		SPARE	1 20	C 20		54
55		SPARE	1 20	A 100	5688	56
57		SPARE	1 20	B	4140	58
59		SPARE	1 20	C	2475	60

DESCRIPTION: 150A MCB		100% Neutral Bus		VOLTAGE: 120/208V, 1PH, 3 WIRE		
10 KAIC RATING		TOTAL CONNECTED LOAD: 38kW+ 185A		DEMANDED LOAD CONTINUOUS: 25kW+ 123A		
NO	LOAD (W)	LOAD DESCRIPTION	AMP P	AMP S	LOAD (W)	NO
1	485	LIGHTING	1 20	A 20	1200	2
3	720	RCPT - LIVING ROOM	1 20	B 20	1500	4
5	900	RCPT - BEDROOM 1	1 20	A 20	1000	6
7	720	RCPT - BEDROOM 2	1 20	B 50	4550	8
9	180	RCPT - BATH RM	1 20	A	4550	10
11		SPARE	1 20	B 20	360	12
13		SPARE	1 20	A 20	540	14
15	2500	DRYER	2 30	B 20	180	16
17	2500		1 30	A 30	2250	18
19	1500	WASHER	1 20	B	2250	20
21		SPARE	1 20	A 35	3500	22
23		SPARE	1 20	B	3500	24
25		SPARE	1 20	A 25	1541	26
27		SPARE	1 20	B	1541	28
29		SPARE	1 20	A 20		30

- NOTES:**
1. PROVIDE AFCI TYPE CIRCUIT BREAKER
 2. PROVIDE GFCI TYPE CIRCUIT BREAKER



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APARTMENT
ELECTRICAL
SCHEDULES & DETAILS

ISSUE DATE:
OCTOBER 18, 2019
REVISIONS:



PROJECT NO.: 1902

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