

DUPLEX ELEVATION

# 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

## SHEET SCHEDULE

### COVER SHEET

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SPI.2	SITE DETAILS
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B E4.1	DUPLEX ELECTRICAL SCHEDULES & DETAILS

## GENERAL PROJECT NOTES

- ALL WORK TO MEET ALL APPLICABLE BUILDING, PLUMBING, MECHANICAL, ELECTRICAL, ADA/HANDICAP ACCESSIBILITY & LIFE SAFETY CODES & REQUIREMENTS.
- 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.
- DO NOT SCALE DRAWINGS. FIELD VERIFY ALL EX. CONDITIONS, DIMENSIONS, ELEVATIONS, ETC. PRIOR TO ORDERING, FABRICATION, ETC..
- NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN THE PROJECT DOCUMENTS & EX. CONDITIONS.
- REFERENCE ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL & PLUMBING PLANS FOR ADDITIONAL INFORMATION.
- 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.
- PARTICLE BOARD & MDF TO BE CERTIFIED COMPLIANT WITH ANSI A208.1 & A208.2, UREA FORMALDEHYDE-FREE COMPOSITE WOOD.
- CAULK ALL JOINTS BETWEEN DISSIMILAR MATERIALS FOR WEATHERPROOF, WATERPROOF, AIRTIGHT, ETC. PERFORMANCE.
- ALL COLOR SELECTIONS BY ARCHITECT FROM MANUFACTURER'S FULL RANGE.
- 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.
- TERMITE 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  
LENEXA, 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 573 441 0242

### DEVELOPER

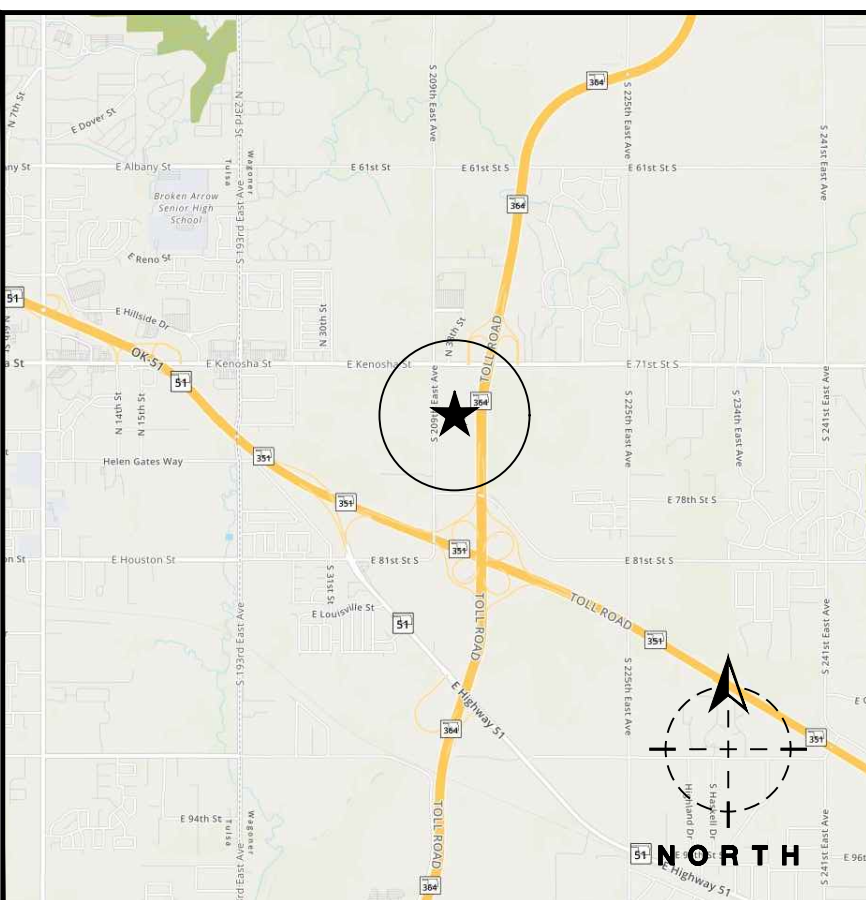
DHTG DEVELOPMENT, LLC  
1900 E LARK LANE  
NIXA, MISSOURI 65114  
TEL 417 224 3035

### GENERAL CONTRACTOR

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

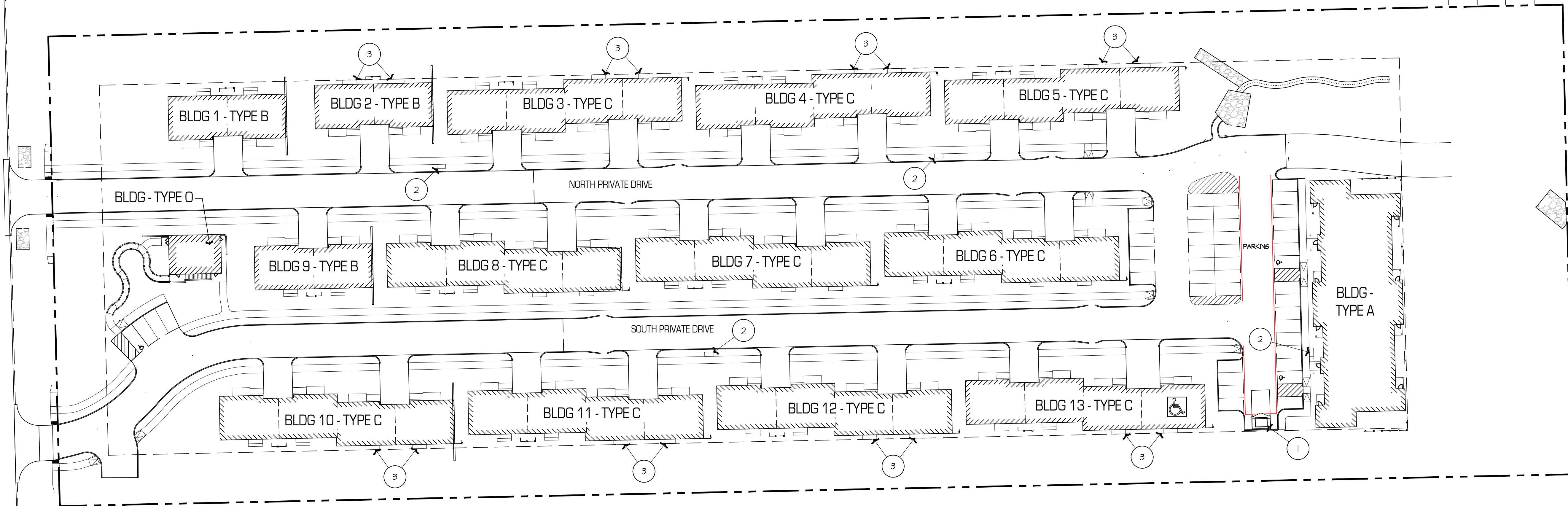
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OCTOBER 18, 2019





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- KEYNOTES
- 1. TRASH ENCLOSURE. RE: TO A5/SP1.2.
  - 2. MAILBOX(S). RE: A7/SP1.2. PROVIDE CONCRETE PAD AT EACH LOCATION. RE: CIVIL. 105900.15
  - 3. REDUCE DEPTH OF CONCRETE PATIO THIS LOCATION. REFER TO A6/A11 FOR ADDITIONAL INFORMATION.

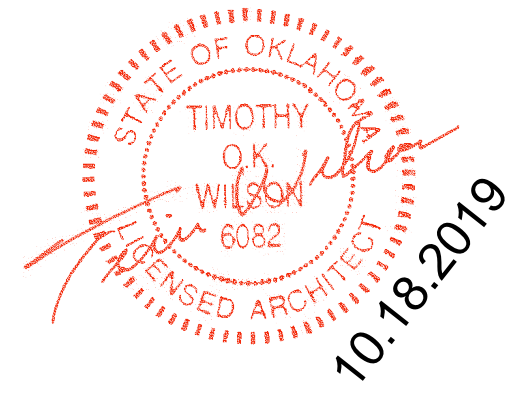


ARCHITECTURAL CORPORATION  
OKLAHOMA CERTIFICATE  
OF AUTHORITY NO. CA 02479

**TIMBER RIDGE COTTAGES**  
SECTION 8, TOWNSHIP 18, RANGE 15  
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315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1996 F 816.531.1978

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LICENSE NO. 6082

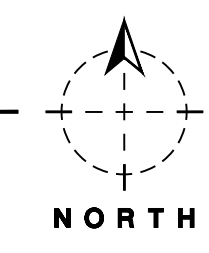


SITE PLAN

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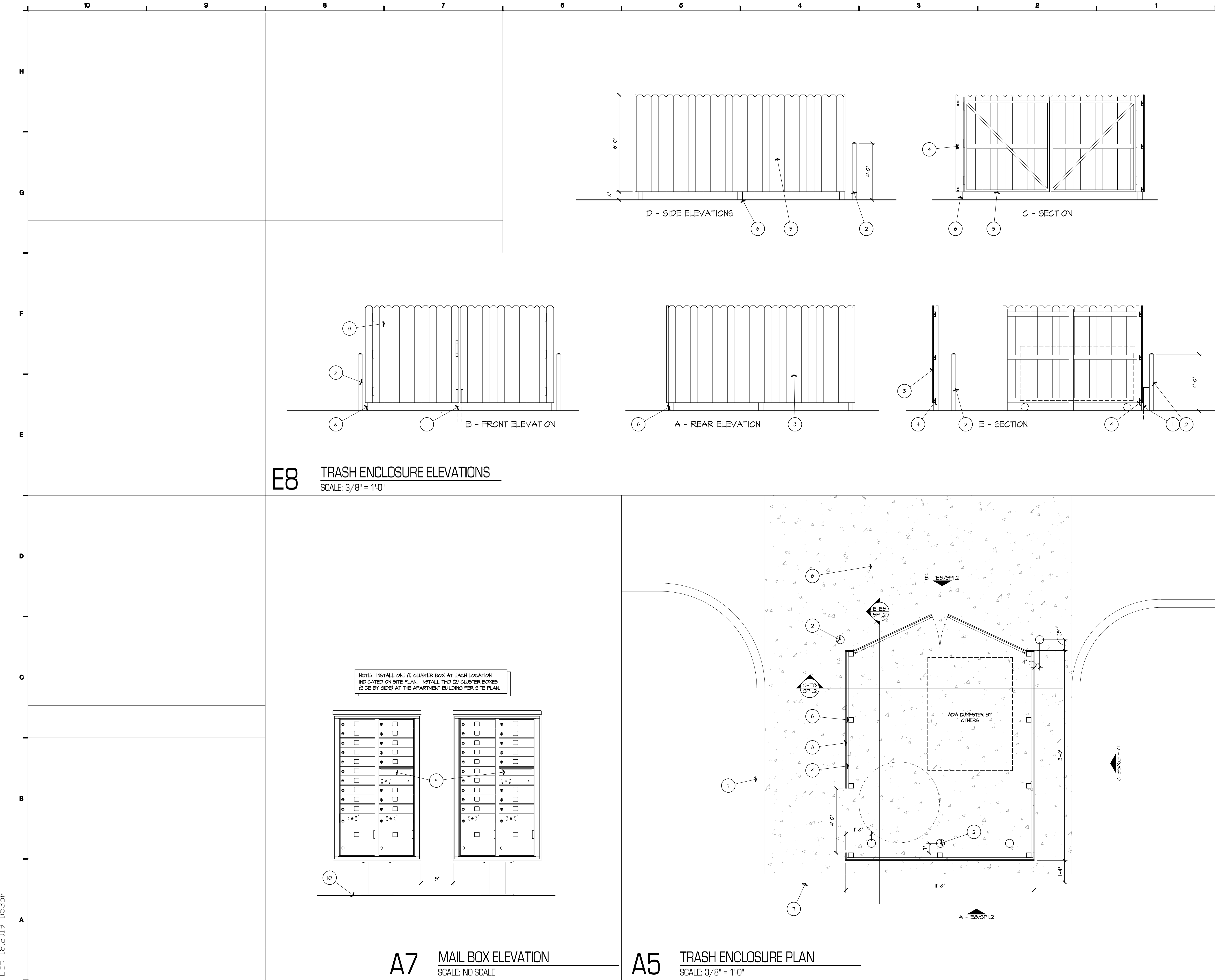
**A2** SITE PLAN  
SCALE: 1" = 40' - 0"



PROJECT NO.: 1902

**SP1.1**

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## KEY NOTES

- 16" TALL GANE BOLT, PROVIDE HOLE IN CONCRETE. PROVIDE 1 FOR EACH GATE. PAINT.
- 6" DIA. CONCRETE FILLED STEEL BOLLARD AT 4'-0" TALL. PAINT. EMBED 3'-0" MIN. INTO CONCRETE.
- 6'-0" TALL VINYL FENCING BY 'VERANDA'. COLOR BY ARCHITECT. INSTALL TO WOOD FRAMING FOR ENHANCED STRENGTH & DURABILITY. FASTEN WITH EXTERIOR GRADE SCREWS.
- 2X4 TREATED WOOD FENCE FRAMING.
- HSS 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.
- HSS 3 1/2" 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.
- BACK OF CURB, REFER TO CIVIL PLANS.
- REINFORCED CONCRETE SLAB, REFER TO CIVIL PLANS.
- FLORENCE CORPORATION CLUSTER MAIL BOX - VITAL. BTO-18. COLOR POSTAL GREY. NUMBERING OF MAILBOX PER THE REQUIREMENTS OF THE LOCAL POSTAL SERVICE.
- CONCRETE PAD PER CLUSTER MAIL BOX MFG SPECIFICATIONS.

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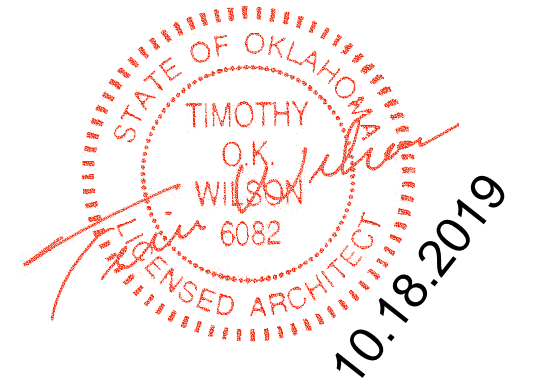
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SITE DETAILS

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**SP1.2**

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E3 FLOOR PLAN  
SCALE: 1/8" = 1'-0"

CODE INFORMATION

LOCAL ADOPTED CODES:

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

ZONING: FUD

PARKING: 2 SPACES PER UNIT REQUIRED PER ZONING  
2 SPACES PER UNIT PROVIDED (1 IN DRIVEWAY AND 1 IN GARAGE)

OCCUPANCY CLASSIFICATION: TWO-FAMILY DWELLING

BUILDING HEIGHT: 35' ALLOWED PER ZONING  
10' ACTUAL

TYPE OF CONSTRUCTION: TYPE VB PER 2015 IBC

BUILDING AREA:  
AREA = 2,402 SF

A2 CODE ANALYSIS  
SCALE: NONE

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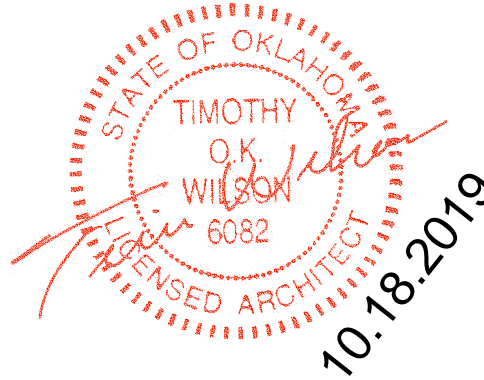
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CODE ANALYSIS

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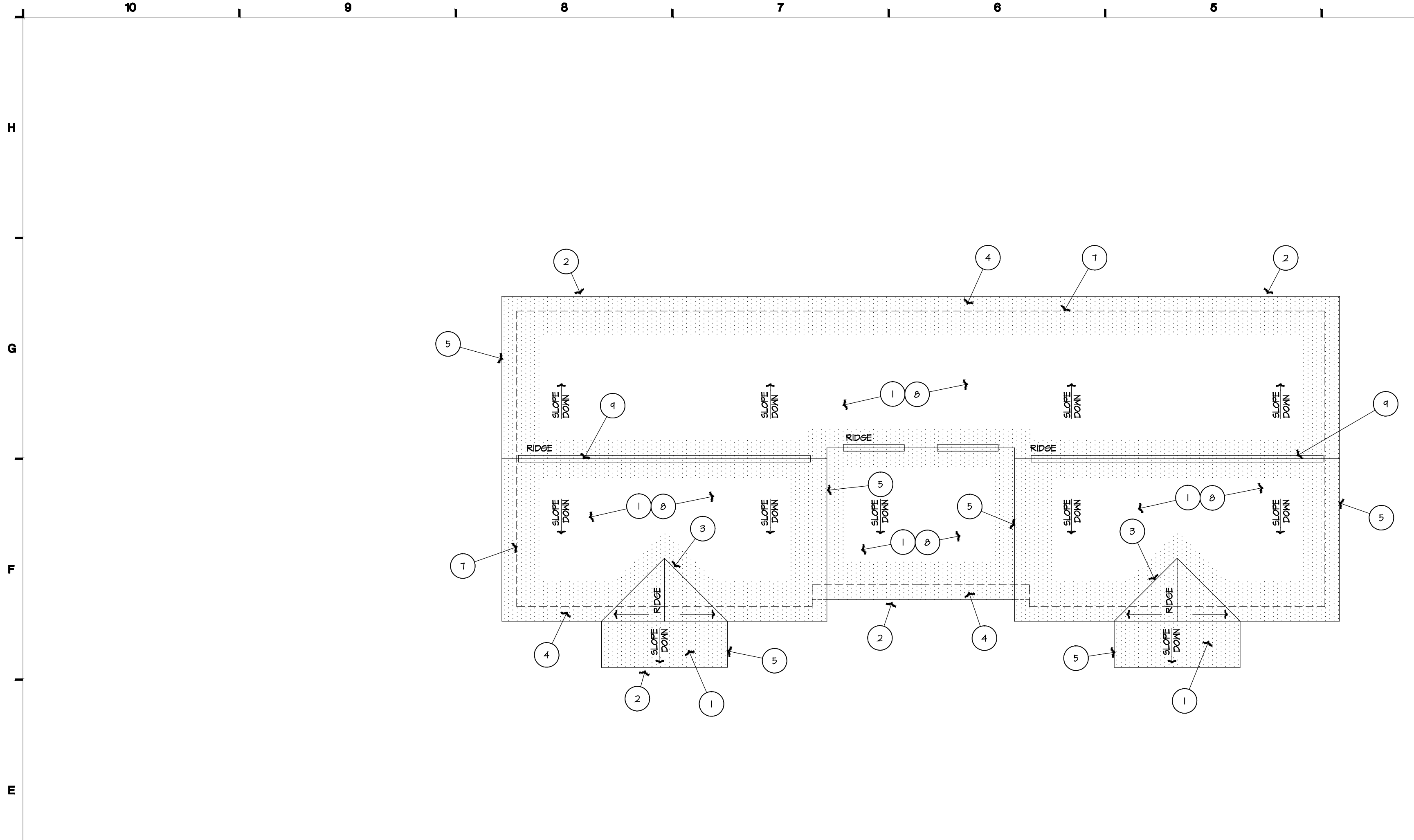


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### ROOF PLAN KEYNOTES

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 (1 ICE DAM PROTECTION) UP ROOF 24" MIN PAST INTERIOR FACE OF EXTERIOR WALL LINE. MANUFACTURED BY "TANKY" OR APPROVED EQUAL. MOISTURE GUARD PLUS. ALSO INSTALL LEAK BARRIER AT RIDGES, VALLEYS (36" WIDE) & SIDEWALL CONDITIONS. 07B15. REFER TO STRUCTURAL FOR SHEATHING INFORMATION.
2. PREFINISHED ALUMINUM GUTTER (5" K-STYLE) & DOWNSPOUT (2X5). INCLUDE VALLEY CORNER, SPLASH GUARDS, HEADWALL KICKOUT FLASHING, & CONCRETE SPLASH BLOCKS. 07B200.
3. PREFINISHED SHEETMETAL OPEN-VALLEY FLASHING (UNO), MIN. 24" WIDE. COLOR TO MATCH ROOFING. 07B200.
4. CEMENT FIBER SOFFIT PANELS BELOW W/ 5 SQ. IN. / LF. SMOOTH TEXTURE. PLACE VENTED SECTION OF PANEL TOWARD THE OUTSIDE OF THE EAVE. COLOR SELECTED BY ARCHITECT. 07A600.
5. PREFINISHED SHEETMETAL ROOF EDGE FLASHING, TYPICAL AT ROOF ENDS. 07B200.
6. PREFINISHED SHEETMETAL ROOF DRIP EDGE FLASHING, TYPICAL AT ROOF / GUTTER EDGES. 07B200.
7. LINE OF EXTERIOR WALL SHOWN BELOW.
8. INSIDE ATTIC BELOW R-40 BLOWN-IN INSULATION. INSTALL RAFTER VENTILATION BAFFLES BETWEEN ALL RAFTERS & TRUSSES. 07C100.
9. CONTINUOUS RIDGE VENT. 07D115

### FLOOR PLAN KEYNOTES

1. CONCRETE DRIVEWAY. RE. CIVIL
2. CONCRETE PORCH & WALK. PORCH TO HAVE 1:40 SLOPE AWAY FROM FOUNDATION WALL. RE. CIVIL
3. CONCRETE PATIO. SLOPE AWAY FROM FOUNDATION WALL AT 1:40 SLOPE. POUR 3 1/2" BELOW FINISH FLOOR. TYPICAL. AT ACCESSIBLE UNIT, POUR 1/4" BELOW FINISH FLOOR.
4. FOUR CONCRETE PATIO 3'-0" DEEP WHERE ADJACENT THE 35' LANDSCAPE PERIMETER. RE. SITE PLAN
5. RECESS CONCRETE SLAB 1/2" AT OVERHEAD SECTIONAL DOOR THRESHOLD. RETURN RECESS AROUND JAMB TO ACCOMMODATE DOOR TRACK PER MANUFACTURER'S SPECIFICATIONS.
6. TREATED TIMBER COLUMN. STAIN TO MATCH COMPOSITE WOOD TRIM. PROVIDE COMPOSITE WOOD FASCIA AS COLUMN BASE TRIM. RE. STRUCTURAL
7. 4'-0" HIGH VINYL FENCE TO BE USED FOR HVAC EQUIPMENT SCREEN. PROVIDE 2'-0" CLEARANCE AROUND SIDES OF CONDENSERS. RE. SITE PLAN
8. FLOOR DRAIN. SLOPE CONC GARAGE SLAB TO DRAIN AT 1:40 SLOPE. RE. PLUMBING
9. PROVIDE & INSTALL 22" X 30" X 5/8" GYPSUM BOARD ATTIC ACCESS PANEL INCLUDING GASKET & R 30 BATT INSULATION ON TOP OF PANEL. TRIM OPENING IN WOOD. PAINT TO MATCH CEILING.
10. PROVIDE & INSTALL 48" X 48" CEILING MOUNTED OVERHEAD STORAGE SYSTEM BY HYLOFT OR APPROVED EQUAL.
11. NOT USED.
12. PROVIDE & INSTALL 4'X6' METAL STORM SHELTER AS MANUFACTURED BY FB STORM SHELTERS.
13. CEILING HEIGHT 9'-0" AFF UNLESS OTHERWISE NOTED. PROVIDE BID FOR ALTERNATE CEILING HEIGHT AT 8'-0".
14. 4'-0" VINYL FENCING TO SCREEN CONDENSING UNITS.
15. PROVIDE 12X12 DRAIN BOX INSTALLED AT GRADE FOR DOWNSPOUT. CONNECT DRAIN BOX TO BURIED SCHEDULE 40 SMOOTH WALL PVC DRAIN PIPE, RUNNING UNDERNEATH SIDEWALK. SLOPE PIPE FOR POSITIVE DRAINAGE TO A MIN. OF 8FT AWAY FROM BUILDING. DAYLIGHT IF POSSIBLE, IF NOT PROVIDE POP-UP STYLE TERMINATION.

### GENERAL PLAN NOTES

- A. 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, RECESSED LIGHT FIXTURES, ETC.) IN THE GYP. BD. BUILDING ENVELOPE (WALLS & CEILING) WITH CAULK OR EXPANDING FOAM.
- B. INSTALL MOLD & MOISTURE RESISTANT GYP. BD. ON ALL WALLS & CEILINGS IN BATHS ON ALL WALLS WITHIN MECH & LAUNDRY CLOSETS & FOR FULL HEIGHT OF ALL CABINET WALLS WHERE SINKS ARE LOCATED. 042900
- C. PARTICLE BOARD & MDF TO BE CERTIFIED COMPLIANT WITH ANSI A208.1 & A208.2, UREA FORMALDEHYDE-FREE COMPOSITE WOOD.
- D. CAULK ALL JOINTS BETWEEN DISSIMILAR MATERIALS FOR WEATHERPROOF. WATERPROOF, AIRTIGHT, ETC. PERFORMANCE.
- E. 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.
- F. PROVIDE "ORANGE PEEL" TEXTURE ON ALL WALLS & CEILINGS.

## E6

### ROOF PLAN

SCALE: 1/8" = 1' - 0"

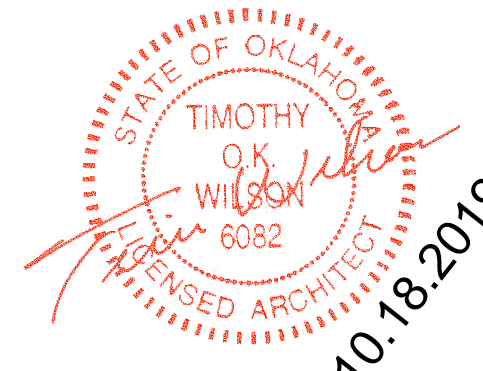
### WALL TYPE NOTES

1. ALL GYP. BD. TO BE FIRE RATED.
2. GYP. BD. ATTACHMENT FOR WALLS TYPES A & C TO BE PER WALL TYPE B.
3. ALL GYP. BD. TO BE ATTACHED TO WALLS & CEILINGS WITH DRYWALL SCREWS EQUIVALENT LENGTH OF NAIL NOTED IN UL DETAIL.
4. GYP. BD. CEILINGS TO BE SCREWED TO TRUSSES @ 6" O.C..

### WALL TYPES

A	WALL HATCH PATTERN ON PLAN		UNIT INTERIOR
			5/8" FIRE RATED GYPSUM BOARD 2X4 WOOD STUDS AT 16" O.C. FULL DEPTH INSULATION. 1/2" RESILIENT CHANNEL 5/8" FIRE RATED GYPSUM BOARD UNIT INTERIOR
B	WALL HATCH PATTERN ON PLAN		UNIT INTERIOR
			5/8" FIRE RATED GYPSUM BOARD 2X4 WOOD STUDS AT 16" O.C. FULL DEPTH INSULATION. 5/8" FIRE RATED GYPSUM BOARD UNIT INTERIOR
C	WALL HATCH PATTERN ON PLAN		UNIT INTERIOR
			5/8" GYPSUM BOARD 2X4 WOOD STUDS AT 16" O.C. 5/8" GYPSUM BOARD UNIT INTERIOR
D	WALL HATCH PATTERN ON PLAN		UNIT INTERIOR
			INTERIOR 5/8" FIRE RATED GYPSUM BOARD 2X6 WOOD STUDS AT 16" O.C. FULL DEPTH INSULATION. 7/16" OSB EXTERIOR FINISH (REFER TO ELEVATIONS) EXTERIOR

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DUPLEX BUILDING  
FLOOR & ROOF PLAN

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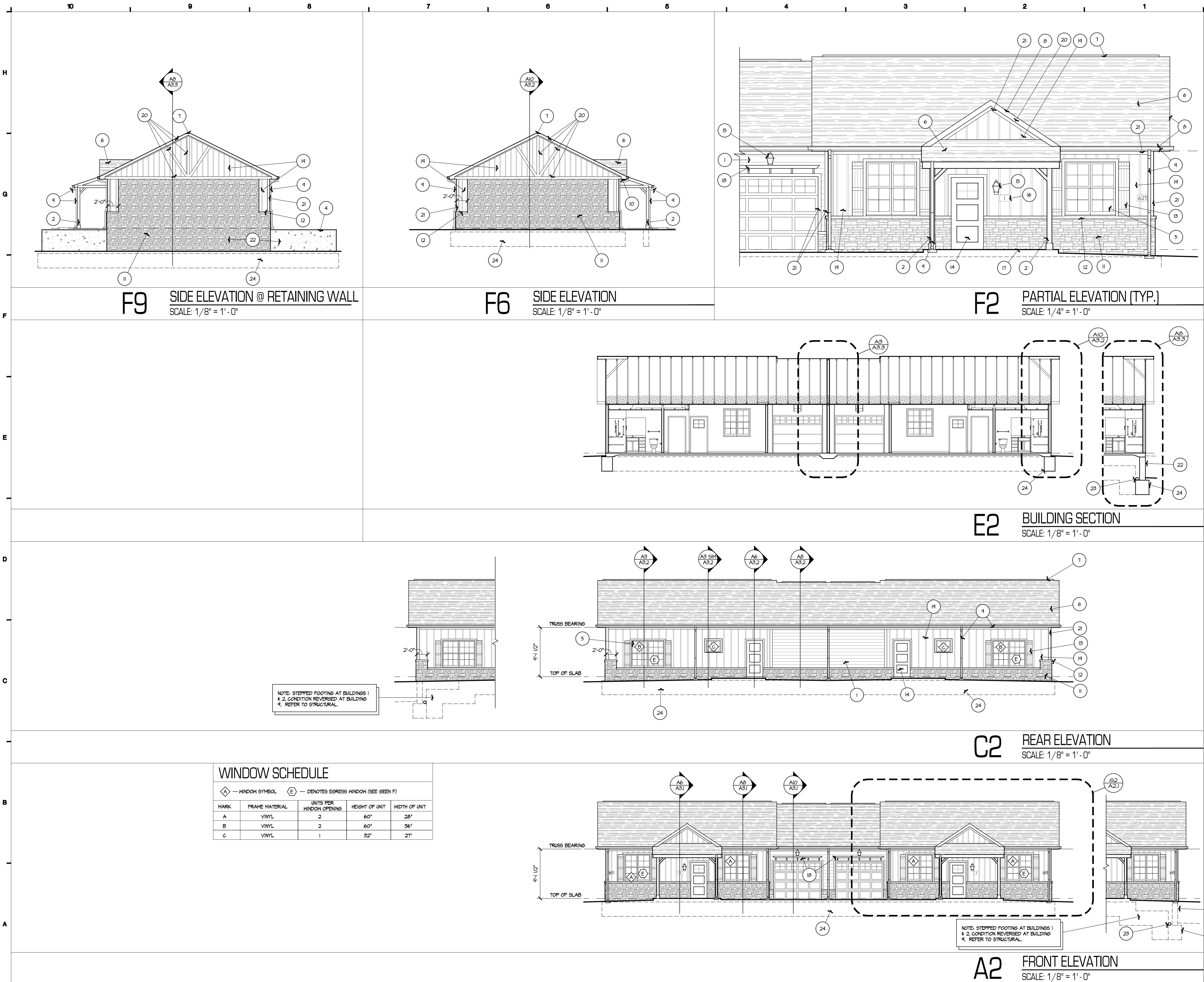
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## KEY NOTES

- 6" FIBER CEMENT PLANK SIDING. COLOR BY ARCHITECT. CAULK ALL VERTICAL JOINTS. PAINT. RE: 074600.
- 6"x6" TREATED WOOD POST WRAPPED IN HARDIE BOARD TRIM. CEDARMILL FINISH. PAINT. COLOR BY ARCHITECT.
- 3/4" X 3 1/2" HARDIE BOARD TRIM. CEDARMILL FINISH. PAINT. COLOR BY ARCHITECT.
- INSTALL GOLF FLUID-APPLIED WATERPROOFING PRIOR TO FINISH GRADING. 071416.
- ENERGY STAR RATED VINYL SINGLE HUNG WINDOW LOW E INSULATED GLASS AS MANUFACTURED BY ALSIDE OR EQUAL. COLOR BY ARCHITECT. 083519.
- ASPHALT SHINGLE ROOFING SYSTEM. INSTALL 1 LAYER OF 30# ASPHALT SATURATED FELT UNDERLAYMENT. LAPPED 2" MIN. INSTALL SELF ADHERING UNDERLAYMENT LEAK BARRIER AT EAVES ( 1/2" DASH 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. 075115. REFER TO STRUCTURAL FOR SHEATHING INFORMATION.
- RIDGE VENT, 1/2 SQ. IN. / LF. STOP 1'-0" OFF CENTERLINE OF FIRE PARTITION WALL. 075115.
- PREFINISHED SHEETMETAL ROOF DRIP EDGE FLASHING. COLOR WHITE. 076200.
- PREFINISHED ALUMINUM GUTTER (5" K-STYLE) & DOWNSPOUT (2X3). INCLUDE VALLEY CORNER SPLASH GUARDS & CONCRETE SPLASH BLOCKS. 076200. COLOR BY ARCHITECT.
- FIBER CEMENT VENTED SOFFIT PANELS BELOW W/ 5 SQ. IN. / LF. SMOOTH TEXTURE. PLACE VENTED SECTION OF PANEL TOWARD THE OUTSIDE OF THE EAVE. COLOR SELECTED BY ARCHITECT. 074600.
- ADHERED STONE VENEER. 04431516.
- TOP COURSE OF ADHERED STONE VENEER SET PROUD OF LOWER STONE VENEER. RE: WALL SECTIONS FOR MORE DETAIL.
- 14 1/2" X 64" VINYL SHUTTER. COLOR BY ARCHITECT.
- HOLLOW METAL DOOR W/ WOOD FRAME. INSULATED STAMPED 6 PANEL TYPE. PAINT. 081115.
- LIGHT FIXTURE. REFER TO ELECTRICAL PLANS.
- 3" METAL CAST NUMBERS MOUNTED ON A 3/4" X 5 1/2" HARDIE BOARD TRIM BOARD CEDARMILL FINISH. MOUNT @ 60" AFF.
- CONCRETE PORCH. REFER TO STRUCTURAL PLANS.
- TREATED WOOD TRELLIS. PAINT.
- FIBER CEMENT VERTICAL PANEL SIDING W/ 3/4" X 2 1/2" BATTEN BOARDS. CEDARMILL FINISH. PAINT. COLOR BY ARCHITECT.
- FIBER CEMENT BOARD 3/4" X 1 1/4" TRIM BOARD CEDARMILL FINISH. PAINT. COLOR BY ARCHITECT.
- FIBER CEMENT BOARD 3/4" X 3 1/2" TRIM BOARD. CEDARMILL FINISH. COLOR BY ARCHITECT.
- CONCRETE RETAINING WALL. RE: CIVIL FOR LOCATIONS. RE: STRUCTURAL.
- 4 IN. PERFORATED PERIMETER FOUNDATION DRAIN PIPE WRAPPED IN FILTER FABRIC & GRAVEL DRAINAGE BED. DAYLIGHT AT LOW END OF RETAINING WALL.
- CONCRETE FOUNDATION. RE: STRUCTURAL.

## GENERAL EXTERIOR ELEVATION NOTES

- ALL WORK TO MEET ALL APPLICABLE BUILDING, PLUMBING, MECHANICAL, ELECTRICAL, ADA/HANDICAP ACCESSIBILITY & LIFE SAFETY CODES & REQUIREMENTS.
- 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 DISCREPANCY FROM THE DRAWINGS.
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- REFERENCE ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL & PLUMBING PLANS FOR ADDITIONAL INFORMATION.
- 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. UTILIZE CAULK TYPE RECOMMENDED BY MANUFACTURER FOR SPECIFIC JOINT MATERIAL & CONDITION.
- ALL COLOR SELECTIONS BY ARCHITECT FROM MANUFACTURER'S FULL RANGE.

## LEGEND

- (15) — KEY NOTE
- (T) — DOOR DESIGNATION
- (A1 A2.1) — EXTERIOR ELEVATION
- (A1 A2.1) — ENLARGED PLAN CALLOUT
- (A3/A4.1) — INTERIOR ELEVATION
- (I A1.1) — SECTION CALLOUT
- (A1/R5 A2.1) — R = REV. (REVERSE)  
S = SIM. (SIMILAR)

**SWD**  
ARCHITECTS  
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 - 1-816-531-1896 F 816-531-1978

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

STATE OF OKLAHOMA  
TIMOTHY O.K. WILSON  
6082  
LICENSED ARCHITECT  
10.18.2019

DUPLEX  
EXTERIOR ELEVATIONS

ISSUE DATE:  
OCTOBER 18, 2019

REVISIONS:

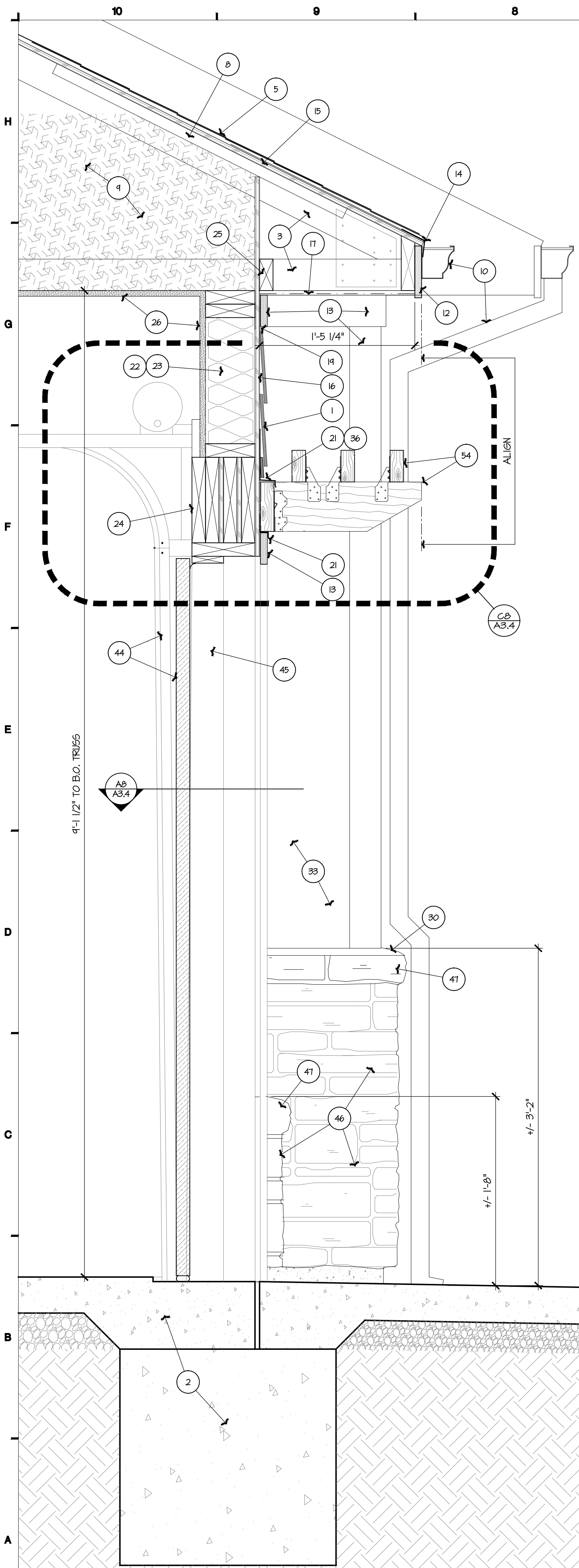
PROJECT NO.: 1902

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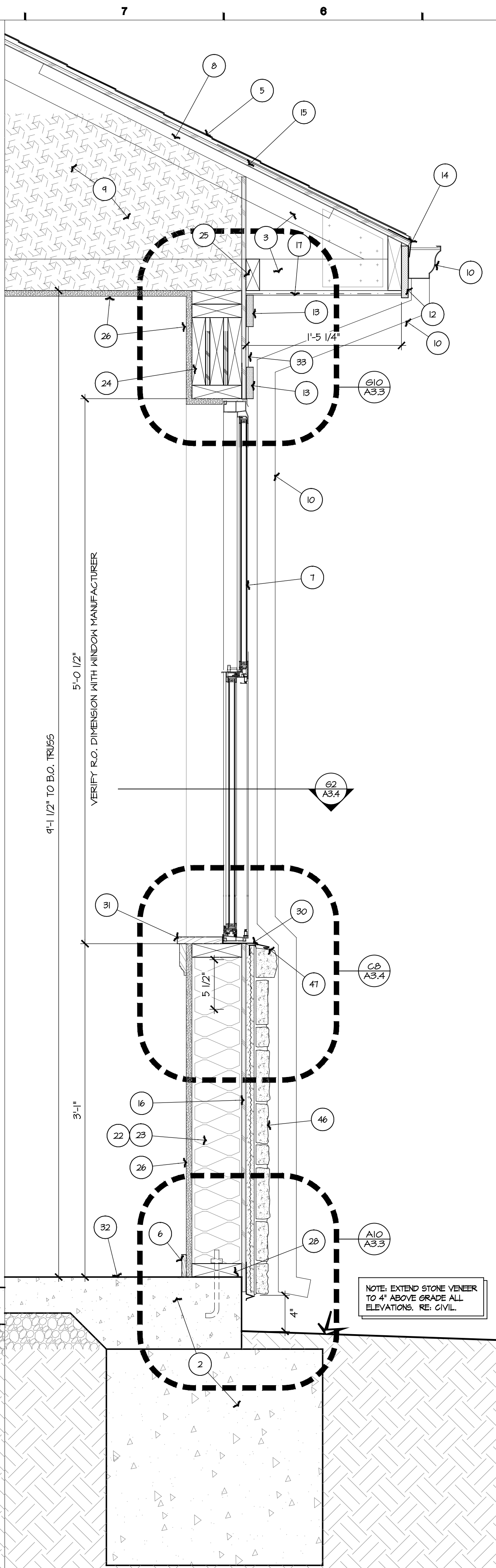
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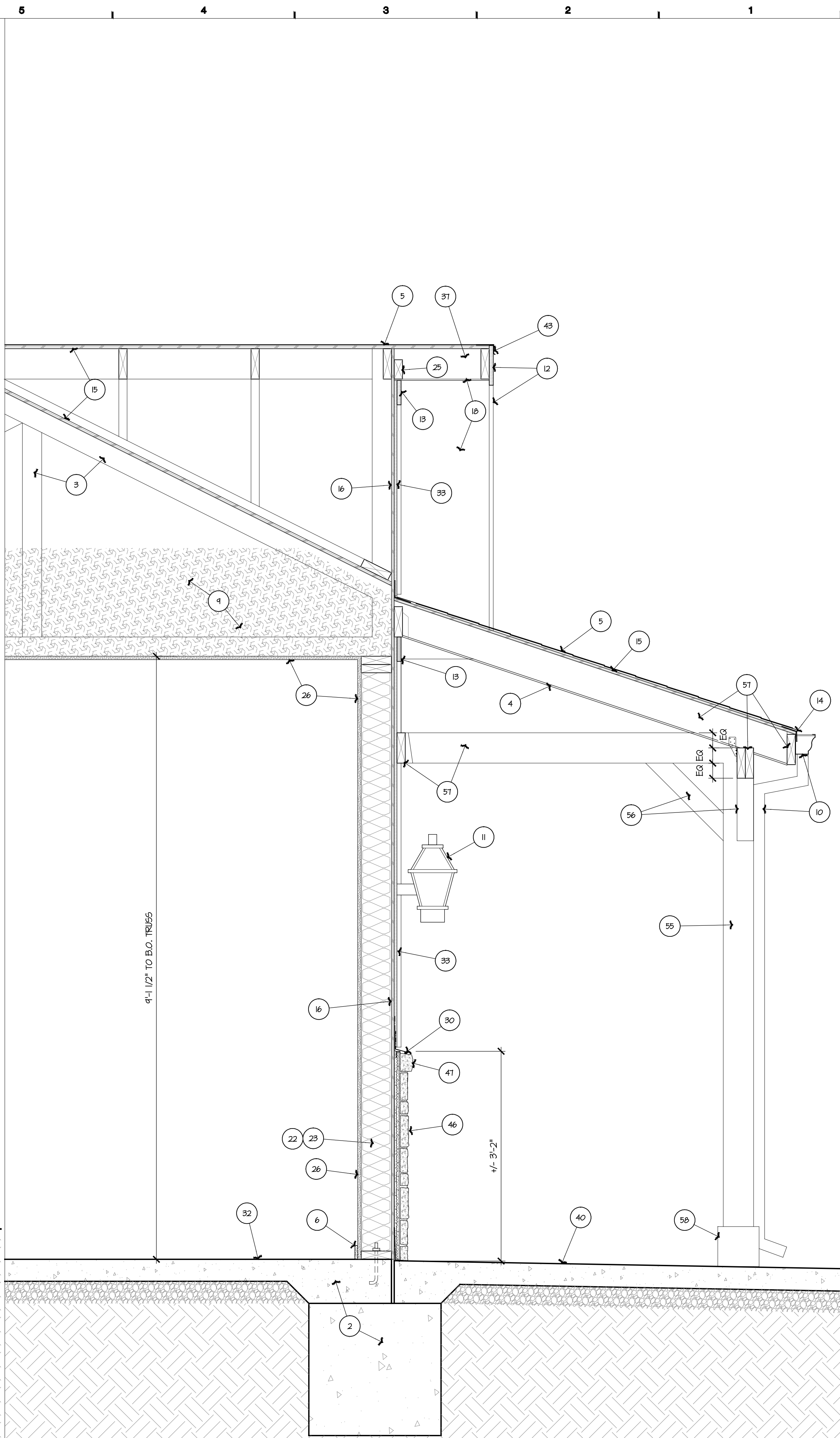
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**A10** WALL SECTION  
SCALE: 1 1/2" = 1'-0"



**A8** WALL SECTION  
SCALE: 1 1/2" = 1'-0"



**A6** WALL SECTION  
SCALE: 1" = 1'-0"

## KEYNOTES

1. FIBER CEMENT BOARD LAP SIDING, T' EXPOSURE, WOOD GRAIN TEXTURE, PAINT, 074600.
2. CONCRETE FOOTING AND SLAB ON GRADE, RE: STRUCTURAL.
3. WOOD TRUSS, RE: STRUCTURAL.
4. FIBER CEMENT BEADED PORCH PANEL, PAINT, 074646.
5. ASPHALT SHINGLE ROOFING SYSTEM, 075113.
6. WOOD BASE PER FINISH SCHEDULE, PAINT, TYPICAL.
7. VINYL WINDOW PER SCHEDULE, QUAKER MANCHESTER SERIES BASIS OF DESIGN, INTEGRAL WHITE COLOR, 085515.
8. RAFTER Baffle @ EACH TRUSS BAY, 072100.
9. R-40 BLOWN IN INSULATION, 072100.
10. PREFINISHED ALUMINUM GUTTER (4" K-STYLE) & DOWNSPOUT (2X), INCLUDE VALLEY CORNER SPLASH GUARDS AND CONCRETE SPLASH BLOCKS, 076200.
11. LIGHT FIXTURE, RE: ELECTRICAL.
12. 5 1/2" FIBER CEMENT BOARD TRIM, WOOD GRAIN TEXTURE, PAINT, 074646.
13. 3 1/2" FIBER CEMENT BOARD TRIM, WOOD GRAIN TEXTURE, PAINT, 074646.
14. PREFINISHED SHEETMETAL DRIP EDGE FLASHING, COLOR BY ARCHITECT, 076200.
15. 1/2" ROOF SHEATHING, RE: STRUCTURAL.
16. EXTERIOR PLYWOOD WALL SHEATHING WITH BUILDING WRAP, RE: STRUCTURAL, 072100.
17. FIBER CEMENT VENTED SOFFIT PANEL, PAINT, 074600.
18. FIBER CEMENT SOFFIT PANEL, PAINT, 074600.
19. CAULK, PROVIDE REQUIRED GAP PER SIDING MANUFACTURER.
20. 5/8" 6Y.P. BD. ON CEILING, PAINT.
21. PREFINISHED SHEETMETAL Z' FLASHING, EMBED FLASHING IN A BED OF CAULK PRIOR TO INSTALLATION.
22. 2 x 6 WOOD STUDS @ 16" O.C., RE: STRUCTURAL.
23. R 14 KRAFT FACED BATT INSULATION, 072100.
24. 2 x WOOD HEADER, RE: STRUCTURAL.
25. 2 x 4 WOOD STUD @ 16" O.C.,
26. 5/8" 6Y.P. BD. PAINT.
27. CAULK, CONTINUOUS.
28. 2 x 6 TREATED BOTTOM PLATE W/ FOAM SILL SEALER AND ANCHOR BOLT, RE: STRUCTURAL.
29. NOT USED.
30. 3" PREFINISHED SHEET METAL FLASHING OVER CAST STONE, EMBED IN A BED OF CAULK.
31. 1/2" x WOOD SILL W/ 1/2" x 2 1/2" SKIRT.
32. FLOOR FINISH, RE: FINISH SCHEDULE.
33. FIBER CEMENT VERTICAL SIDING WITH BATTENS AT 16" O.C., CENTER BATTENS ON GABLES WHERE SHOWN, SMOOTH PANEL TEXTURE AND WOOD GRAIN TEXTURE BATTENS, PAINT, 074600.
34. BASE PER FINISH SCHEDULE.
35. FIBER CEMENT STARTER STRIP, 074600.
36. 1/4" GAP DO NOT CAULK.
37. 2 x 6 OUTRIGGERS, RE: STRUCTURAL PLANS.
38. DOOR FRAME & INTERIOR TRIM, PAINT, RE: DOOR SCHEDULE.
39. METAL THRESHOLD, SET IN A BED OF SEALANT.
40. CONCRETE PATIO, RE: STRUCTURAL.
41. DOOR PER SCHEDULE, PAINT.
42. SET METAL FLASHING IN A BED OF CAULK.
43. PREFINISHED ROOF EDGE FLASHING, 076200.
44. GARAGE DOOR & TRACK, 082613.
45. FIBER CEMENT 5/4" TRIM BOARD WITH WOOD GRAIN TEXTURE AROUND GARAGE DOOR WITH STOP, 074600.
46. MFG. STONE VENEER, 044813.16.
47. MFG. STONE VENEER WITH SLOPED TOP, 044813.16.
48. FIBER CEMENT 3/4" x 1 1/2" TRIM BOARD WITH WOOD GRAIN TEXTURE, PAINT.
49. BLOCKING AS REQUIRED BY MFG. STONE VENEER INSTALLATION.
50. DOUBLE STUD AT JAMB LOCATION, TYP.
51. FURR TRIM AS REQUIRED TO BE FLUSH WITH VERTICAL BATTEN BOARDS.
52. FLASHING (SLOPED TO EXTERIOR).
53. BEDDING SEAL UNDER FLASHING WITH DRIP EDGE.
54. 2x4 OVER 2x6 CEDAR, STAIN.
55. 6x6 TREATED TIMBER COLUMN, KDAT, STAIN, RE: STRUCTURAL.
56. TREATED TIMBER BRACE, KDAT, STAIN, RE: STRUCTURAL.
57. TREATED WOOD FRAMING, KDAT, STAIN, RE: STRUCTURAL.
58. COMPOSITE WOOD FASCIA TO BE USED AS COLUMN BASE TRIM, 081553.

## GENERAL 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 CONTRACT 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. CAULK AT ALL INTERSECTIONS OF TRIM BOARD TO SIDING, SOFFIT PANELS & VINYL WINDOWS, UNLESS SHOWN OTHERWISE. SEE GENERAL NOTE 6.
- G. INSTALL SIDING, WEATHER BARRIER, FLASHING, TRIM, SEAM TAPING, ETC. PER SIDING MANUFACTURER'S REQUIREMENTS FOR WEATHERPROOF PERFORMANCE. COORDINATE INSTALLATION WITH WINDOW MANUFACTURER'S REQUIREMENTS. REFER TO F4/A3.4 FOR WINDOW FLASHING SEQUENCE.

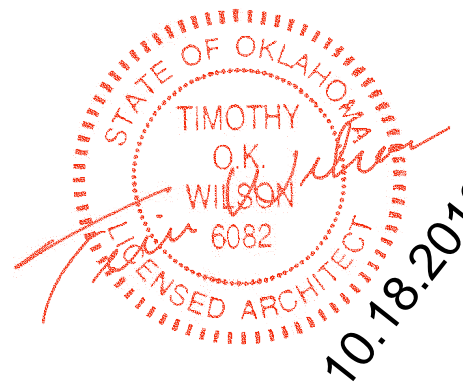


ARCHITECTURAL CORPORATION  
OKLAHOMA CERTIFICATE  
OF AUTHORITY NO. CA 02479

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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



SECTIONS & DETAILS

ISSUE DATE:  
OCTOBER 18, 2019  
REVISIONS:

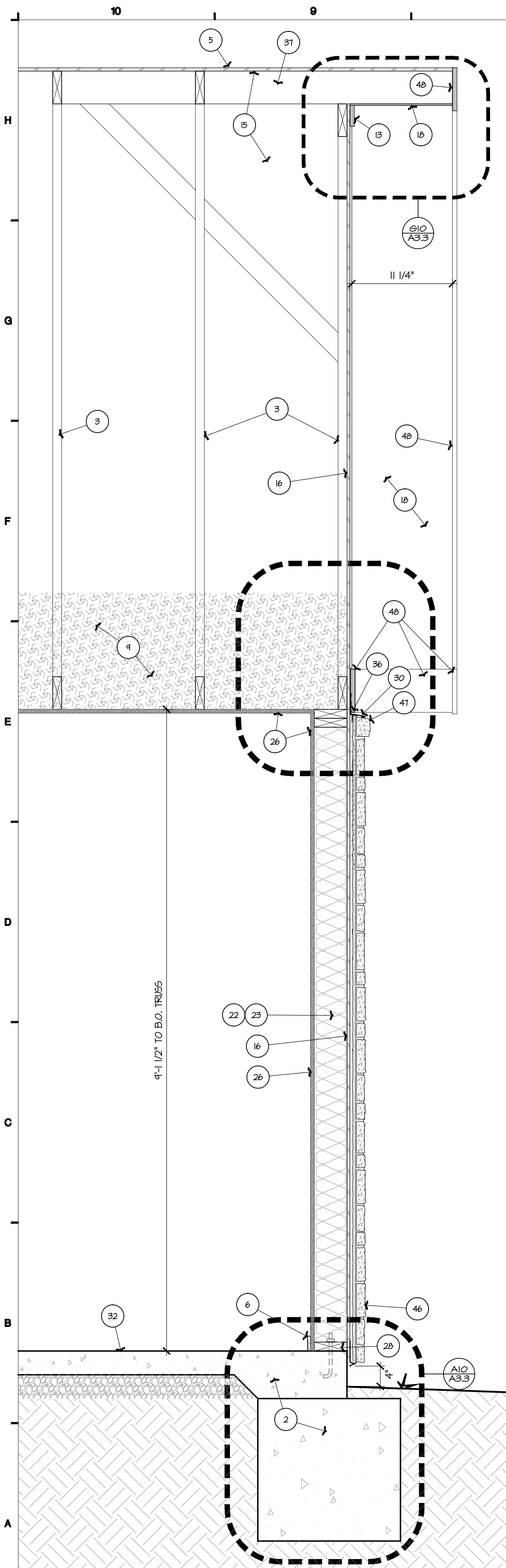
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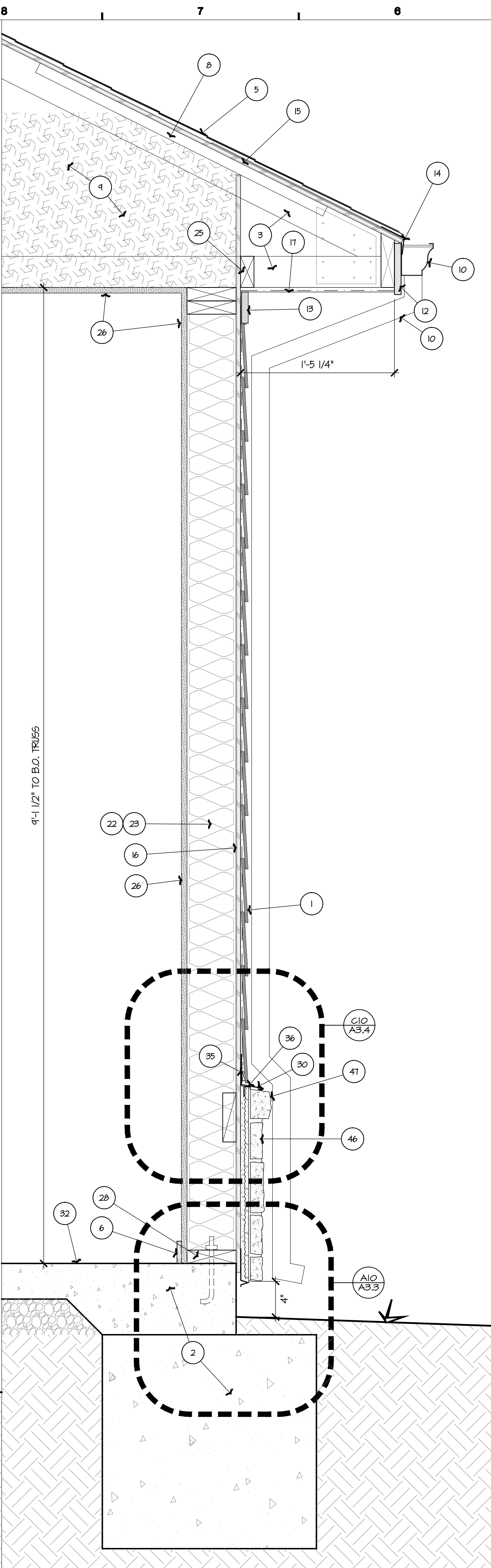
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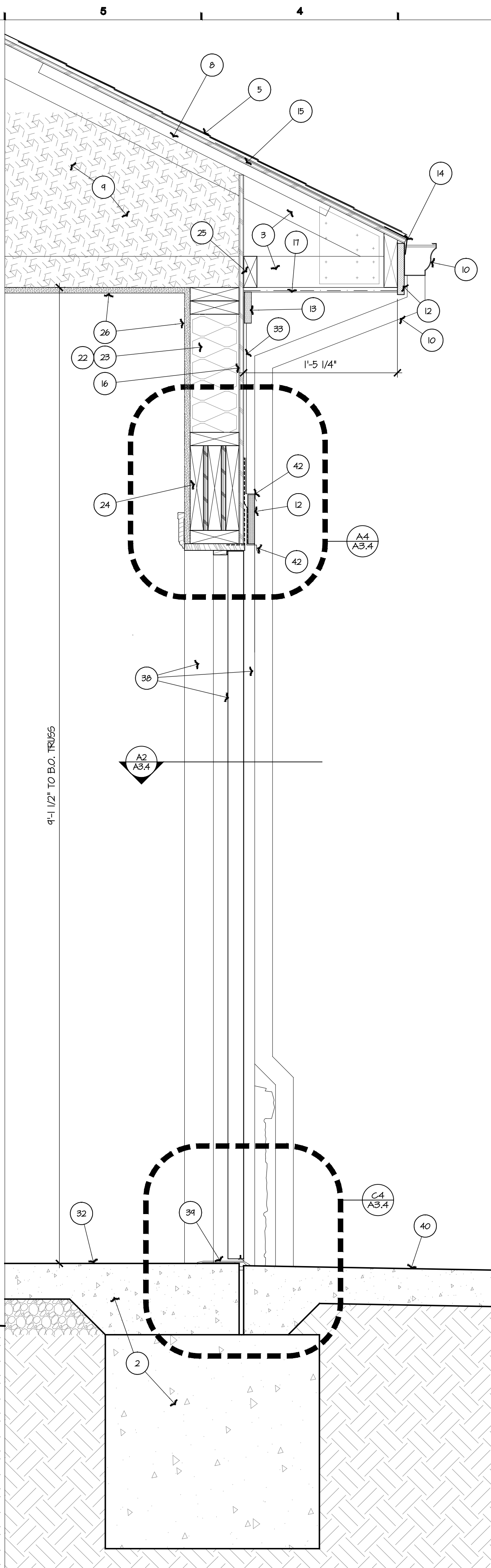
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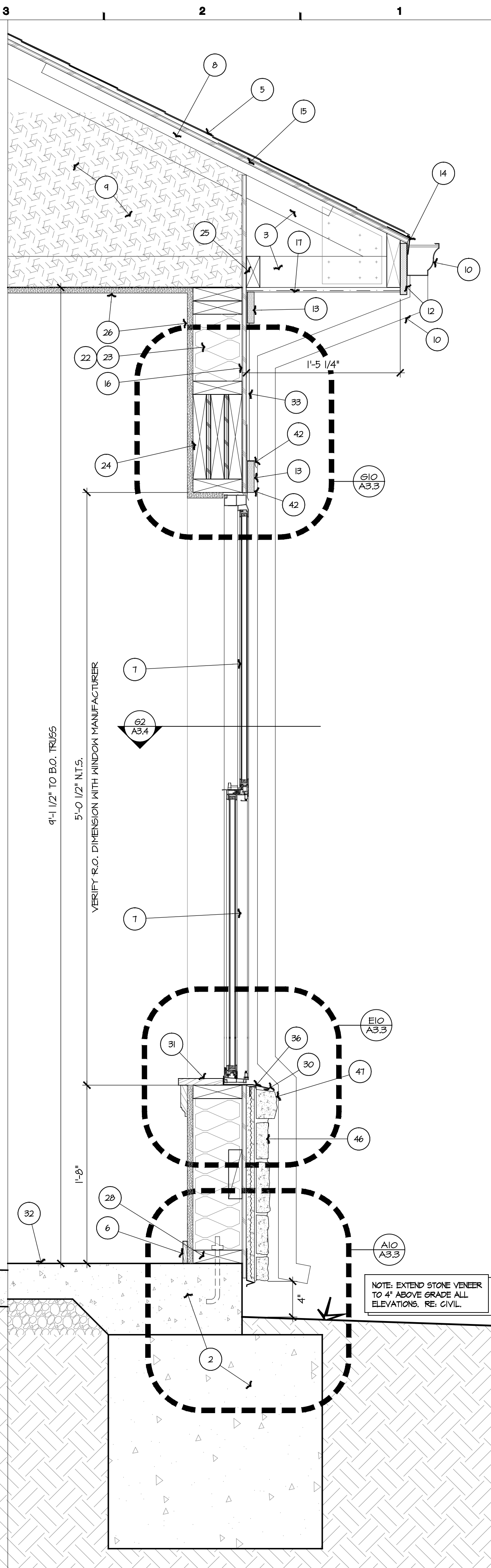
**A10** WALL SECTION  
SCALE: 1" = 1'-0"



**A8** WALL SECTION  
SCALE: 1 1/2" = 1'-0"



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



**A3** WALL SECTION  
SCALE: 1 1/2" = 1'-0"

## KEYNOTES

1. FIBER CEMENT BOARD LAP SIDING, 1" EXPOSURE, WOOD GRAIN TEXTURE, PAINT, 074600.
2. CONCRETE FOOTING AND SLAB ON GRADE, RE: STRUCTURAL.
3. WOOD TRUSS, RE: STRUCTURAL.
4. FIBER CEMENT BEADED PORCH PANEL, PAINT, 074646.
5. ASPHALT SHINGLE ROOFING SYSTEM, 075113.
6. WOOD BASE PER FINISH SCHEDULE, PAINT, TYPICAL.
7. VINYL WINDOW PER SCHEDULE, QUAKER MANCHESTER SERIES BASIS OF DESIGN, INTEGRAL WHITE COLOR, 085515.
8. RAFTER Baffle @ EACH TRUSS BAY, 072100.
9. R-40 BLOWN IN INSULATION, 072100.
10. PREFINISHED ALUMINUM GUTTER (4" K-STYLE) & DOWNSPOUT (2x6), INCLUDE VALLEY CORNER SPLASH GUARDS AND CONCRETE SPLASH BLOCKS, 076200.
11. LIGHT FIXTURE, RE: ELECTRICAL.
12. 5 1/2" FIBER CEMENT BOARD TRIM, WOOD GRAIN TEXTURE, PAINT, 074646.
13. 3 1/2" FIBER CEMENT BOARD TRIM, WOOD GRAIN TEXTURE, PAINT, 074646.
14. PREFINISHED SHEETMETAL DRIP EDGE FLASHING, COLOR BY ARCHITECT, 076200.
15. 19/32" ROOF SHEATHING, RE: STRUCTURAL.
16. EXTERIOR PLYWOOD WALL SHEATHING WITH BUILDING WRAP, RE: STRUCTURAL, 072500.
17. FIBER CEMENT VENTED SOFFIT PANEL, PAINT, 074600.
18. FIBER CEMENT SOFFIT PANEL, PAINT, 074600.
19. CAULK, PROVIDE REQUIRED GAP PER SIDING MANUFACTURER.
20. 5/8" 6YP. BD. ON CEILING, PAINT.
21. PREFINISHED SHEETMETAL 'Z' FLASHING, EMBED FLASHING IN A BED OF CAULK PRIOR TO INSTALLATION.
22. 2 x 6 WOOD STUDS @ 16" O.C., RE: STRUCTURAL.
23. R 14 KRAFT FACED BATT INSULATION, 072100.
24. 2 x 4 WOOD STUD @ 16" O.C., RE: STRUCTURAL.
25. 5/8" 6YP. BD. PAINT.
26. 5/8" 6YP. BD. PAINT.
27. CAULK, CONTINUOUS.
28. 2 x 6 TREATED BOTTOM PLATE W/ FOAM SILL SEALER, AND ANCHOR BOLT, RE: STRUCTURAL.
29. NOT USED.
30. 3" PREFINISHED SHEET METAL FLASHING OVER CAST STONE, EMBED IN A BED OF CAULK.
31. 1/2" x WOOD SILL W/ 1/2" x 2 1/2" SKIRT.
32. FLOOR FINISH, RE: FINISH SCHEDULE.
33. FIBER CEMENT VERTICAL SIDING WITH BATTENS AT 16" O.C., CENTER BATTENS ON GABLES WHERE SHOWN, SMOOTH PANEL TEXTURE AND WOOD GRAIN TEXTURE BATTENS, PAINT, 074600.
34. BASE PER FINISH SCHEDULE.
35. FIBER CEMENT STARTER STRIP, 074600.
36. 1/4" GAP DO NOT CAULK.
37. 2 x 6 OUTRIGGERS, RE: STRUCTURAL PLANS.
38. DOOR FRAME & INTERIOR TRIM, PAINT, RE: DOOR SCHEDULE.
39. METAL THRESHOLD, SET IN A BED OF SEALANT.
40. CONCRETE PATIO, RE: STRUCTURAL.
41. DOOR PER SCHEDULE, PAINT.
42. SET METAL FLASHING IN A BED OF CAULK.
43. PREFINISHED ROOF EDGE FLASHING, 076200.
44. GARAGE DOOR & TRACK, 082613.
45. FIBER CEMENT 5/4" TRIM BOARD WITH WOOD GRAIN TEXTURE AROUND GARAGE DOOR WITH STOP, 074600.
46. MFG. STONE VENEER, 044513.16.
47. MFG. STONE VENEER WITH SLOPED TOP, 044513.16.
48. FIBER CEMENT 3/4" x 1 1/2" TRIM BOARD WITH WOOD GRAIN TEXTURE, PAINT.
49. BLOCKING AS REQUIRED BY MFG. STONE VENEER INSTALLATION.
50. DOUBLE STUD AT JAMB LOCATION, TYP.
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52. FLASHING (SLOPED TO EXTERIOR).
53. BEDDING SEAL UNDER FLASHING WITH DRIP EDGE.
54. 2x4 OVER 2x6 CEDAR, STAIN.
55. 6x6 TREATED TIMBER COLUMN, KDAT, STAIN, RE: STRUCTURAL.
56. TREATED TIMBER BRACE, KDAT, STAIN, RE: STRUCTURAL.
57. TREATED WOOD FRAMING, KDAT, STAIN, RE: STRUCTURAL.
58. COMPOSITE WOOD FASCIA TO BE USED AS COLUMN BASE TRIM, 061555.

## GENERAL NOTES

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- F. CAULK AT ALL INTERSECTIONS OF TRIM BOARD TO SIDING, SOFFIT PANELS & VINYL WINDOWS, UNLESS SHOWN OTHERWISE. SEE GENERAL NOTE 6.
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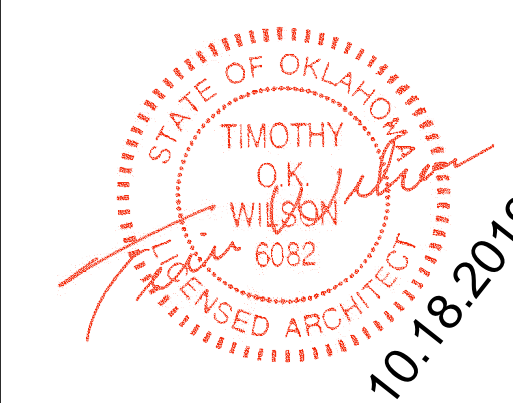
ARCHITECTURAL CORPORATION  
OKLAHOMA CERTIFICATE  
OF AUTHORITY NO. CA 02479

## TIMBER RIDGE COTTAGES

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

STARK WILSON DUNCAN ARCHITECTS INC.  
3115 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.351.1898 F 816.531.1978

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



## SECTIONS & DETAILS

ISSUE DATE:  
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REVISIONS:

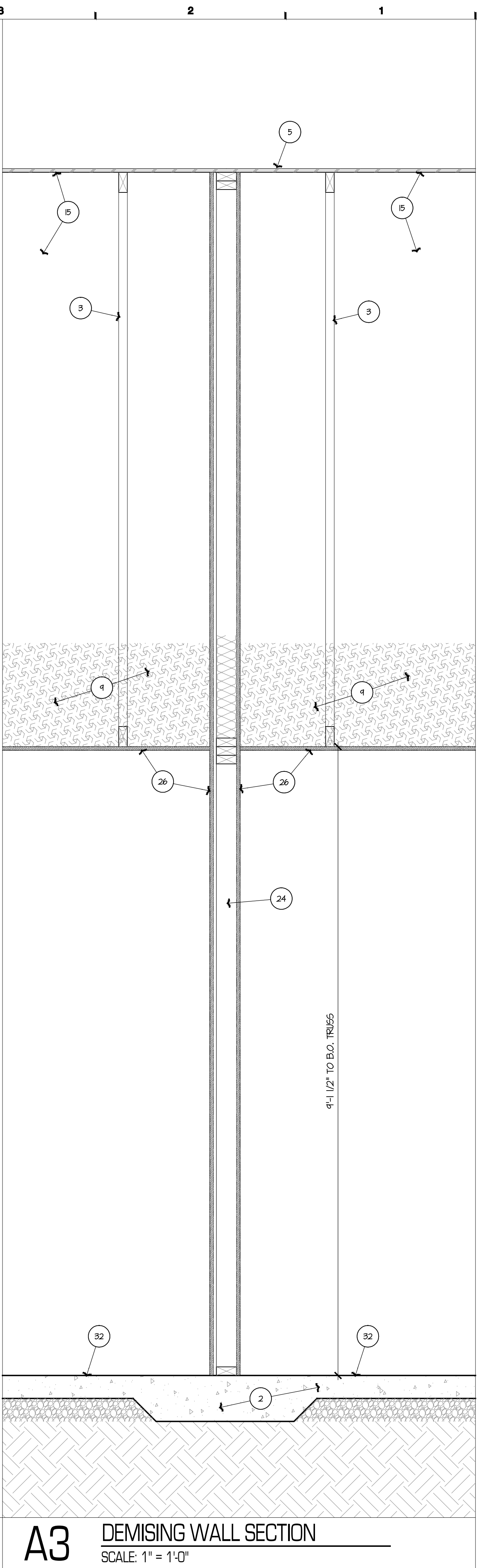
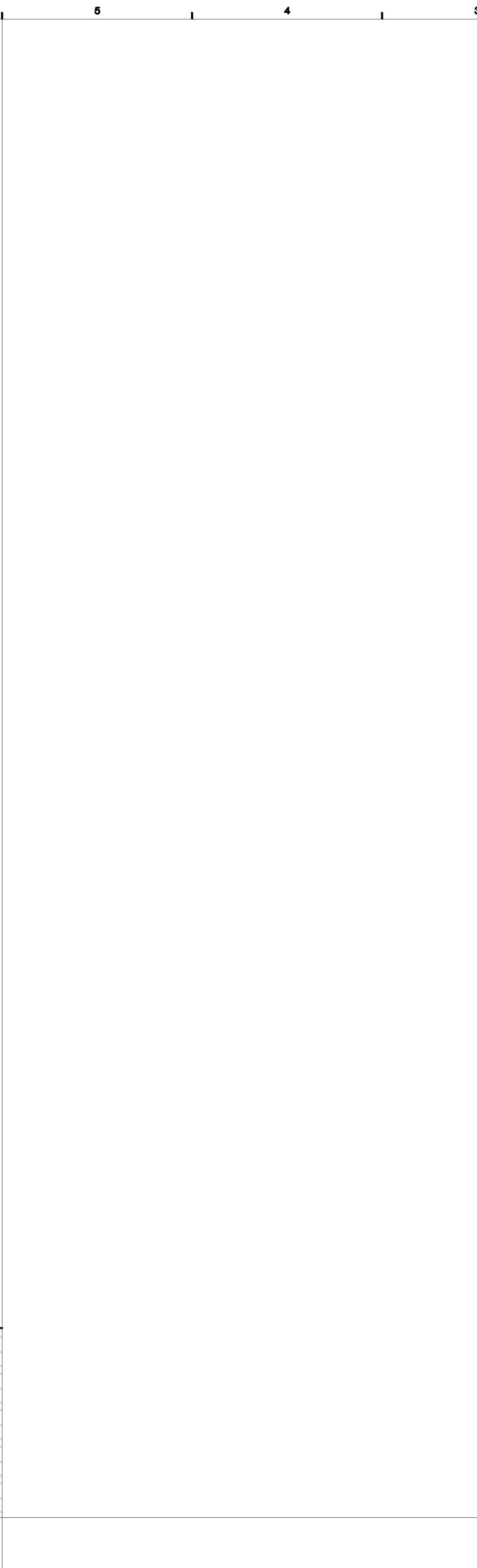
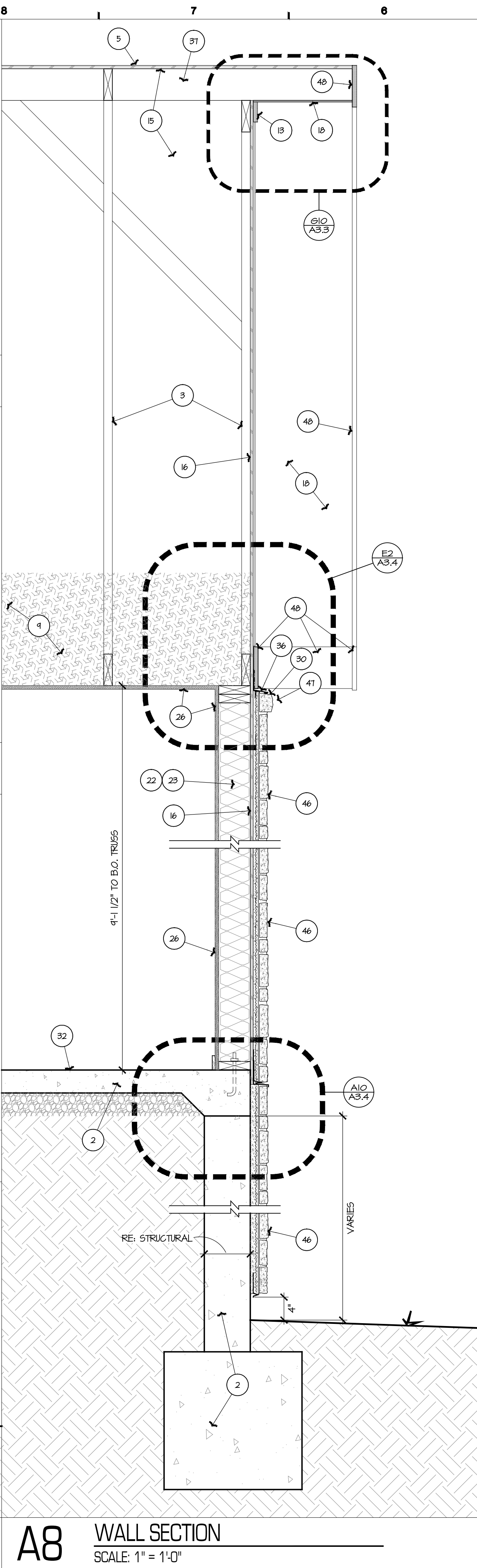
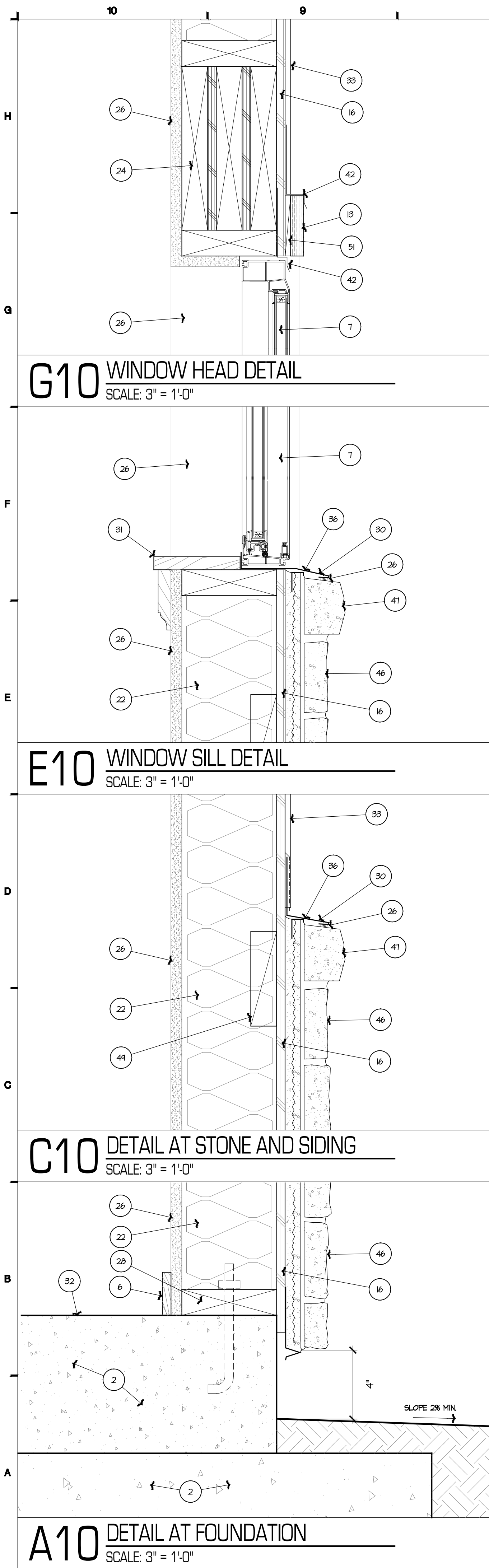
PROJECT NO.: 1902

**B A3.2**

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M:\1902 TIMBER RIDGE\_BROKEN\_ARROW\^DUPLICATE\B A3.3.dwg  
Oct 18, 2019 11:46am



## KEYNOTES

1. FIBER CEMENT BOARD LAP SIDING, T<sup>1</sup> EXPOSURE, WOOD GRAIN TEXTURE, PAINT, 074600.
2. CONCRETE FOOTING AND SLAB ON GRADE, RE: STRUCTURAL.
3. WOOD TRUSS, RE: STRUCTURAL.
4. FIBER CEMENT BEADED PORCH PANEL, PAINT, 074646.
5. ASPHALT SHINGLE ROOFING SYSTEM, 075113.
6. WOOD BASE PER FINISH SCHEDULE, PAINT, TYPICAL.
7. VINYL WINDOW PER SCHEDULE, QUAKER MANCHESTER SERIES BASIS OF DESIGN, INTEGRAL WHITE COLOR, 085515.
8. RAFTER Baffle @ EACH TRUSS BAY, 072100.
9. R-40 BLOWN IN INSULATION, 072100.
10. PREFINISHED ALUMINUM GUTTER (4" K-STYLE) & DOWNSPOUT (2X8), INCLUDE VALLEY CORNER SPLASH GUARDS AND CONCRETE SPLASH BLOCKS, 076200.
11. LIGHT FIXTURE, RE: ELECTRICAL.
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14. PREFINISHED SHEETMETAL DRIP EDGE FLASHING, COLOR BY ARCHITECT, 076200.
15. 19/32" ROOF SHEATHING, RE: STRUCTURAL.
16. EXTERIOR PLYWOOD WALL SHEATHING WITH BUILDING WRAP, RE: STRUCTURAL, 072300.
17. FIBER CEMENT VENTED SOFFIT PANEL, PAINT, 074600.
18. FIBER CEMENT SOFFIT PANEL, PAINT, 074600.
19. CAULK, PROVIDE REQUIRED GAP PER SIDING MANUFACTURER.
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55. 6x6 TREATED TIMBER COLUMN, KDAT, STAIN, RE: STRUCTURAL.
56. TREATED TIMBER BRACE, KDAT, STAIN, RE: STRUCTURAL.
57. TREATED WOOD FRAMING, KDAT, STAIN, RE: STRUCTURAL.
58. COMPOSITE WOOD FASCIA TO BE USED AS COLUMN BASE TRIM, 081555.

## GENERAL NOTES

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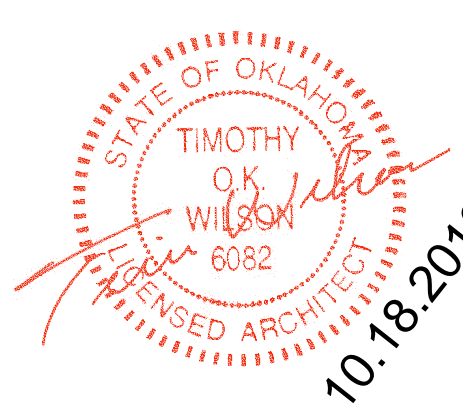


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BROKEN ARROW, WAGONER COUNTY, OK

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OCTOBER 18, 2019  
REVISIONS:

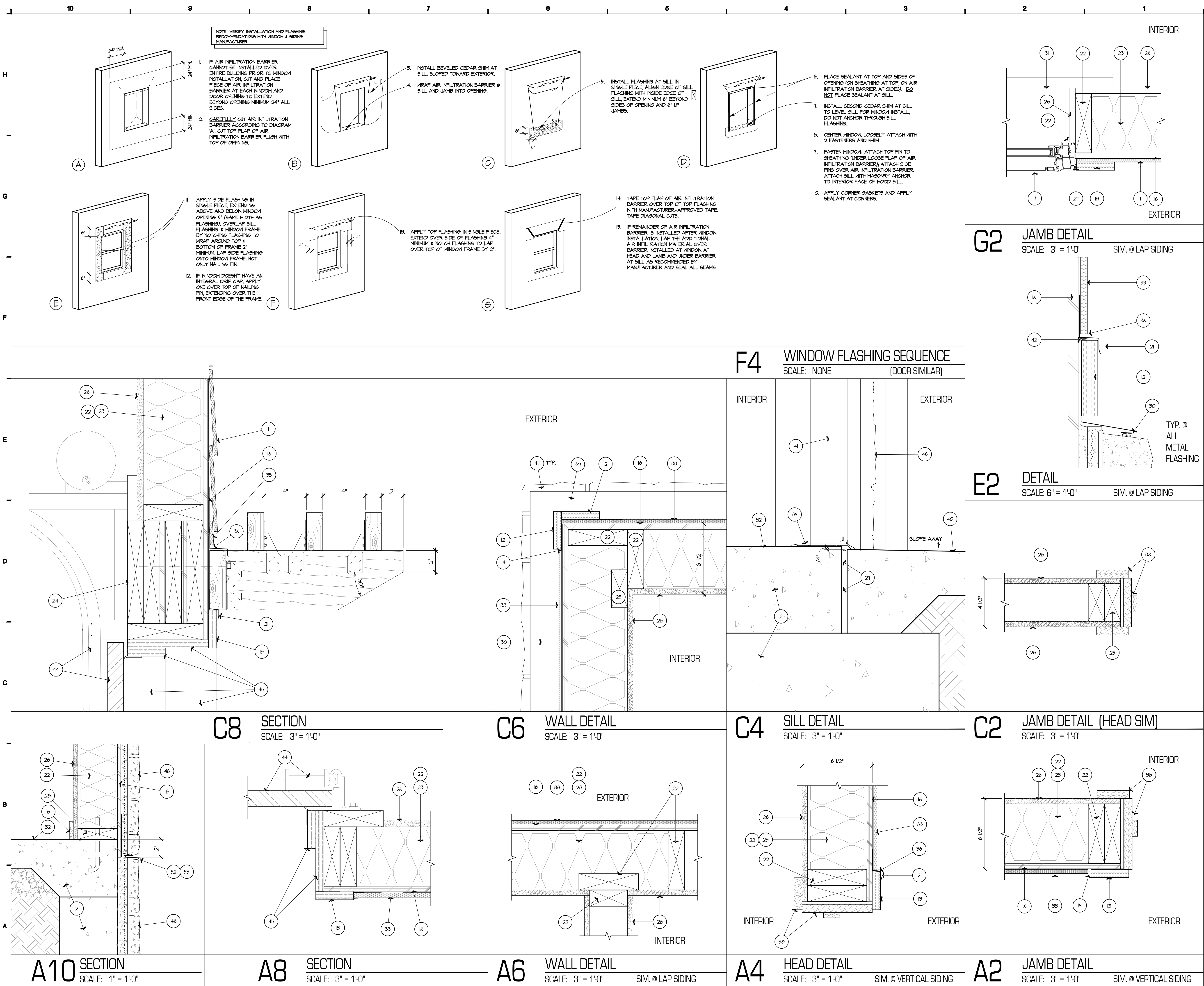
PROJECT NO.: 1902

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## KEYNOTES

1. FIBER CEMENT BOARD LAP SIDING. T<sup>1</sup> EXPOSURE. WOOD GRAIN TEXTURE. PAINT. 074600.
2. CONCRETE FOOTING AND SLAB ON GRADE. RE: STRUCTURAL.
3. WOOD TRUSS. RE: STRUCTURAL.
4. FIBER CEMENT BEADED PORCH PANEL. PAINT. 074646.
5. ASPHALT SHINGLE ROOFING SYSTEM. 07313.
6. WOOD BASE PER FINISH SCHEDULE. PAINT. TYPICAL.
7. VINYL WINDOW PER SCHEDULE. QUAKER MANCHESTER SERIES BASIS OF DESIGN. INTEGRAL WHITE COLOR. 085315.
8. RAFTER Baffle @ EACH TRUSS BAY. 072100.
9. R-40 BLOWN IN INSULATION. 072100.
10. PREFINISHED ALUMINUM GUTTER (4" K-STYLE) & DOWNSPOUT (2X8). INCLUDE VALLEY-CORNER SPLASH GUARDS AND CONCRETE SPLASH BLOCKS. 076200.
11. LIGHT FIXTURE. RE: ELECTRICAL.
12. 5 1/2" FIBER CEMENT BOARD TRIM. WOOD GRAIN TEXTURE. PAINT. 074646.
13. 3 1/2" FIBER CEMENT BOARD TRIM. WOOD GRAIN TEXTURE. PAINT. 074646.
14. PREFINISHED SHEETMETAL DRIP EDGE FLASHING. COLOR BY ARCHITECT. 076200.
15. 1/8"2" ROOF SHEATHING. RE: STRUCTURAL.
16. EXTERIOR PLYWOOD WALL SHEATHING WITH BUILDING WRAP. RE: STRUCTURAL. 072500.
17. FIBER CEMENT VENTED SOFFIT PANEL. PAINT. 074600.
18. FIBER CEMENT SOFFIT PANEL. PAINT. 074600.
19. CAULK. PROVIDE REQUIRED GAP PER SIDING MANUFACTURER.
20. 5/8" 6xP. BD. ON CEILING. PAINT.
21. PREFINISHED SHEETMETAL T<sup>2</sup> FLASHING. EMBED FLASHING IN A BED OF CAULK PRIOR TO INSTALLATION.
22. 2 x 6 WOOD STUDS @ 16" O.C.. RE: STRUCTURAL.
23. R 14 KRAFT FACED BATT INSULATION. 072100.
24. 2 x WOOD HEADER. RE: STRUCTURAL.
25. 2 x 4 WOOD STUD @ 16" O.C..
26. 5/8" 6xP. BD. PAINT.
27. CAULK. CONTINUOUS.
28. 2 x 6 TREATED BOTTOM PLATE W/ FOAM SILL SEALER AND ANCHOR BOLT. RE: STRUCTURAL.
29. NOT USED.
30. 3" PREFINISHED SHEET METAL FLASHING OVER CAST STONE. EMBED IN A BED OF CAULK.
31. 1/2" x WOOD SILL. W/ 1/2" x 2 1/2" SKIRT.
32. FLOOR FINISH. RE: FINISH SCHEDULE.
33. FIBER CEMENT VERTICAL SIDING WITH BATTENS AT 16" O.C. CENTER BATTENS ON GABLES WHERE SHOWN. SMOOTH PANEL TEXTURE AND WOOD GRAIN TEXTURE BATTENS. PAINT. 074600.
34. BASE PER FINISH SCHEDULE.
35. FIBER CEMENT STARTER STRIP. 074600.
36. 1/4" GAP DO NOT CAULK.
37. 2 x 6 OUTRIGGERS. RE: STRUCTURAL PLANS.
38. DOOR FRAME & INTERIOR TRIM. PAINT. RE: DOOR SCHEDULE.
39. METAL THRESHOLD. SET IN A BED OF SEALANT.
40. CONCRETE PATIO. RE: STRUCTURAL.
41. DOOR PER SCHEDULE. PAINT.
42. SET METAL FLASHING IN A BED OF CAULK.
43. PREFINISHED ROOF EDGE FLASHING. 076200.
44. GARAGE DOOR & TRACK. 083613.
45. FIBER CEMENT 5/4" TRIM BOARD WITH WOOD GRAIN TEXTURE AROUND GARAGE DOOR WITH STOP. 074600.
46. MFG. STONE VENEER. 044313.16.
47. MFG. STONE VENEER WITH SLOPED TOP. 044313.16.
48. FIBER CEMENT 5/4" x 1 1/2" TRIM BOARD WITH WOOD GRAIN TEXTURE. PAINT.
49. BLOCKING AS REQUIRED BY MFG. STONE VENEER INSTALLATION.
50. DOUBLE STUD AT JAMB LOCATION. TYP.
51. FURR TRIM AS REQUIRED TO BE FLUSH WITH VERTICAL BATTEN BOARDS.
52. FLASHING (SLOPED TO EXTERIOR).
53. BEDDING SEAL UNDER FLASHING WITH DRIP EDGE.
54. 2x4 OVER 2x6 CEDAR. STAIN.
55. 6x6 TREATED TIMBER COLUMN. KDAT. STAIN. RE: STRUCTURAL.
56. TREATED TIMBER BRACE. KDAT. STAIN. RE: STRUCTURAL.
57. TREATED WOOD FRAMING. KDAT. STAIN. RE: STRUCTURAL.
58. COMPOSITE WOOD FASCIA TO BE USED AS COLUMN BASE TRIM. 061835.



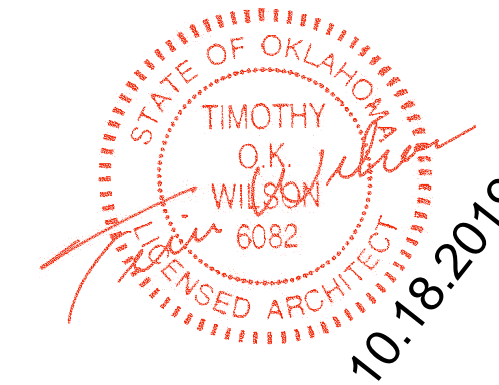
ARCHITECTURAL CORPORATION  
OKLAHOMA CERTIFICATE  
OF AUTHORITY NO. CA 02479

## 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 - 1-816-531-1996 F 816-531-1978

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LICENSE NO. 6082



## SECTIONS & DETAILS

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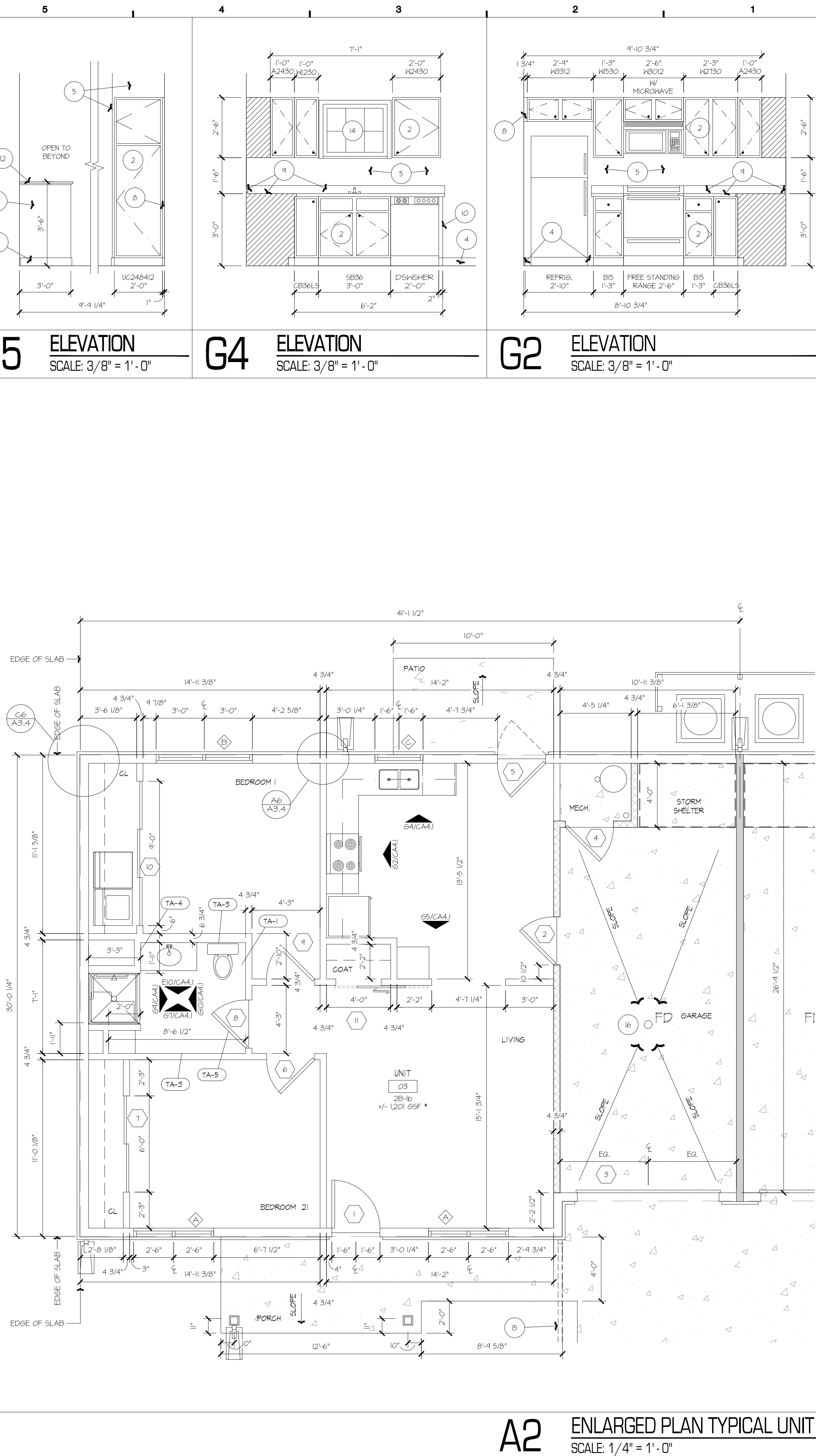
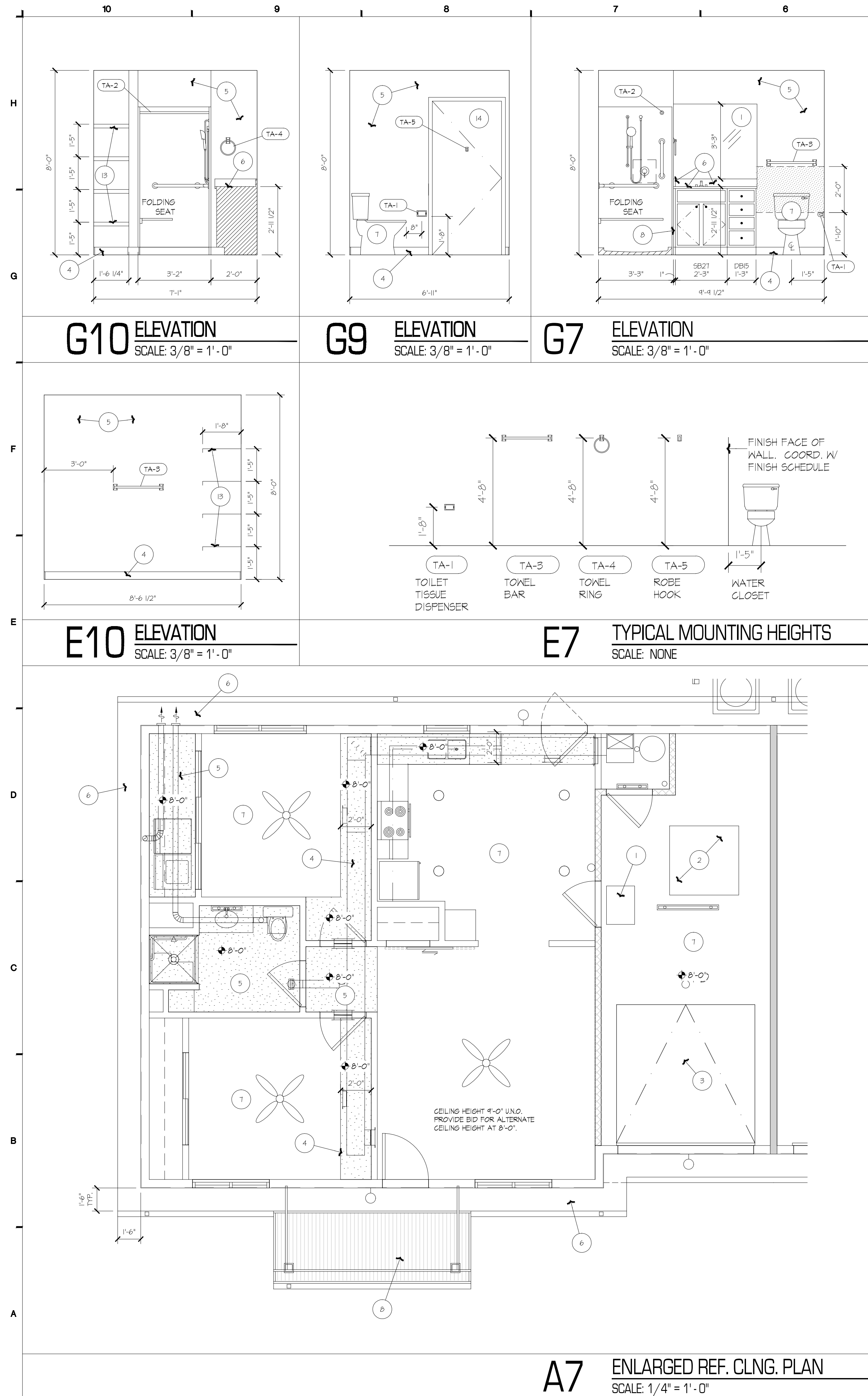
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## KEY NOTES

- MIRROR FULL LENGTH OF VANITY, UNLESS NOTED OTHERWISE. REFER TO SPEC. SECTION 088300.
- WOOD CABINETS. RE. GENERAL NOTES.
- 1 PIECE FIBERGLASS TUB/SHOWER SURROUND. RE: PLUMBING PLANS.
- BASE PER FINISH SCHEDULE.
- GYPSUM BOARD WALL CONSTRUCTION. PAINT.
- COLORLED MARBLE COUNTERTOP w/ INTEGRAL SINK AND 4" BACKSPLASH & RETURN. 125621.5
- TOILET. RE. PLUMBING PLANS.
- FILLER PIECE. MATCH CABINET STYLE.
- 1 1/2" THICK PLASTIC LAMINATE COUNTERTOP WITH 4" BACKSPLASH & RETURN WHERE SHOWN. RE: SPEC. SECTION 125621.5
- CABINET END PANEL.
- 1" FILLER.
- HALF WALL 1 X WOOD CAP EXTEND PAST GYP. BD. 1" ON ALL SIDES. PAINT. INSTALL 3/4" ROUND ON UNDERSIDE OF WOOD CAP ALL SIDES. PAINT.
- VINYL COATED WIRE SHELVING.
- DOOR/WINDOW PER SCHEDULE.
- PROVIDE 1/2" DRAIN BOX INSTALLED AT GRADE FOR DOWNSPOUT. CONNECT DRAIN BOX TO BURIED SCHEDULE 40 SMOOTH WALL PVC DRAIN PIPE RUNNING UNDERNEATH SIDEWALK. SLOPE PIPE FOR POSITIVE DRAINAGE TO A MIN. OF 8" AWAY FROM BUILDING. DAYLIGHT IF POSSIBLE, IF NOT PROVIDE POP-UP STYLE TERMINATION.
- SLOPE CONCRETE FLOOR TO DRAIN.

## 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.
- CABINETRY SHALL BE BY GRANDVIEW INDUSTRIES, INC. OAKDALE, COLOR AS SELECTED BY ARCHITECT WITH BRUSHED ALUMINUM WIRE PULLS OR APPROVED EQUAL. COORDINATE CABINETRY INSTALLATION AS REQUIRED PRIOR TO FABRICATION. CONSTRUCT WALLS w/ ROUGH OPENINGS AS NEEDED FOR SIZES OF CABINETRY INDICATED. INSTALL MATCHING WOOD SCRIBE AT ALL CABINET / WALL JOINTS. INSTALL MATCHING WOOD QUARTER ROUND BASE Scribe AT ALL TOEICK & END PANEL / FINISH FLOOR JOINTS. TOEICK TO MATCH CABINETRY FINISH. REFER TO SPEC. SECTION 125550.
- COORDINATE CABINETRY WITH APPLIANCES FOR PROPER CLEARANCES. OPERATION, ETC.. RE: SPEC. SECTION 13100 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 ALL WALLS A MIN. OF 12" BEYOND EXTENTS OF CABINETRY IN KITCHENS.
- UTILIZE 2X WOOD BLOCKING AS REQUIRED FOR INSTALLATION OF CABINETRY, 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.

## TOILET ACCESSORIES

### LEGEND

NOTE: CONTRACTOR SHALL INSTALL ALL REQUIRED 2X WOOD BLOCKING FOR A PROPER INSTALLATION OF TOILET ACCESSORIES. REFER TO C4/A4.1 FOR MOUNTING HEIGHTS. REFER TO SPEC. SECTION 102800 FOR ADDITIONAL INFORMATION.

ACCESSORIES MANUFACTURED BY GATCO, LATITUDE STYLE, CHROME FINISH.

- TA-1 TOILET TISSUE DISPENSER  
MODEL # 42435
- TA-2 SHOWER CURTAIN ROD
- TA-3 TOWEL BAR - 24"  
MODEL # 4240
- TA-4 HAND TOWEL RING - 6" DIA.  
MODEL # 4242
- TA-5 ROBE HOOK  
MODEL # 4245

2X WOOD BLOCKING, REFER TO ELEVATIONS FOR LOCATIONS

## RCP KEY NOTES

- PROVIDE & INSTALL 22" X 30" X 5/8" GYPSUM BOARD ATTIC ACCESS PANEL INCLUDING GASKET & R 38 BATT INSULATION ON TOP OF PANEL. TRIM OPENING IN WOOD. PAINT TO MATCH CEILING.
- PROVIDE & INSTALL 45" X 45" CEILING MOUNTED OVERHEAD STORAGE SYSTEM BY HYLOFT OR APPROVED EQUAL.
- AUTOMATIC GARAGE DOOR OPENER.
- 5/8" GYP. BD. SOFFIT. PAINT. INSTALL 5/8" GYP. BD. ON BOTTOM OF ROOF TRUSS PRIOR TO CONSTRUCTION OF SOFFIT.
- 5/8" GYP. BD. SUSPENDED CEILING. PAINT. INSTALL 5/8" GYP. BD. ON BOTTOM OF ROOF TRUSS PRIOR TO CONSTRUCTING SUSPENDED CEILING. 042216
- CEMENT FIBER VENTED SOFFIT PANELS. 074600
- 5/8" GYP. BD. ON BOTTOM OF ROOF TRUSS. PAINT.
- FIBER CEMENT BEAD BOARD CEILING. PAINT. 074600

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

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

STATE OF OKLAHOMA  
TIMOTHY O.K. WILSON  
LICENSED ARCHITECT  
6082  
10.18.2019

ENLARGED UNIT  
PLAN & INTERIOR  
ELEVATIONS

ISSUE DATE:  
OCTOBER 18, 2019

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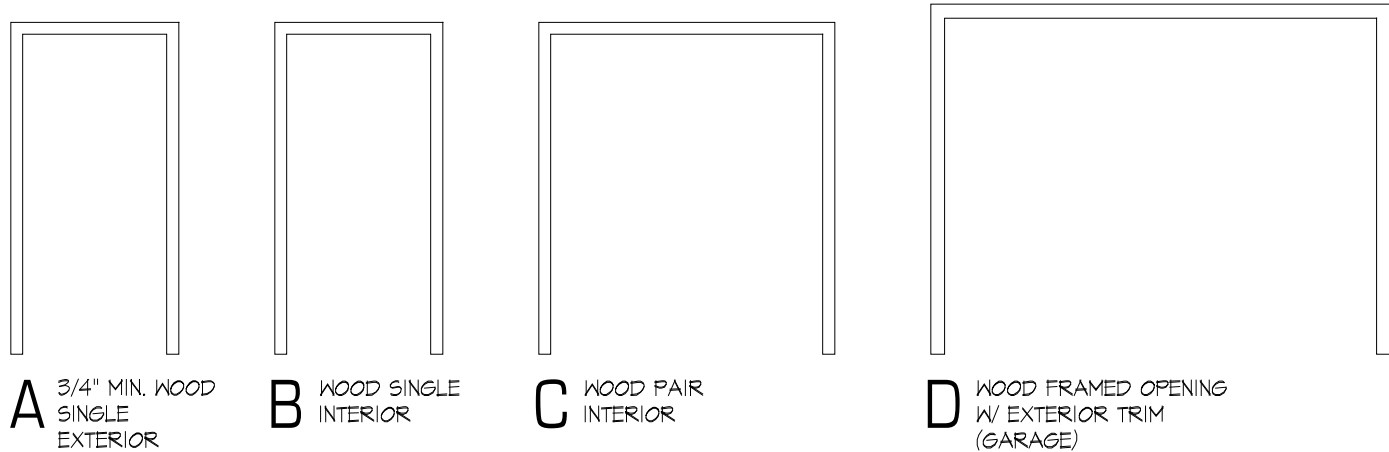
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## DOOR SCHEDULE

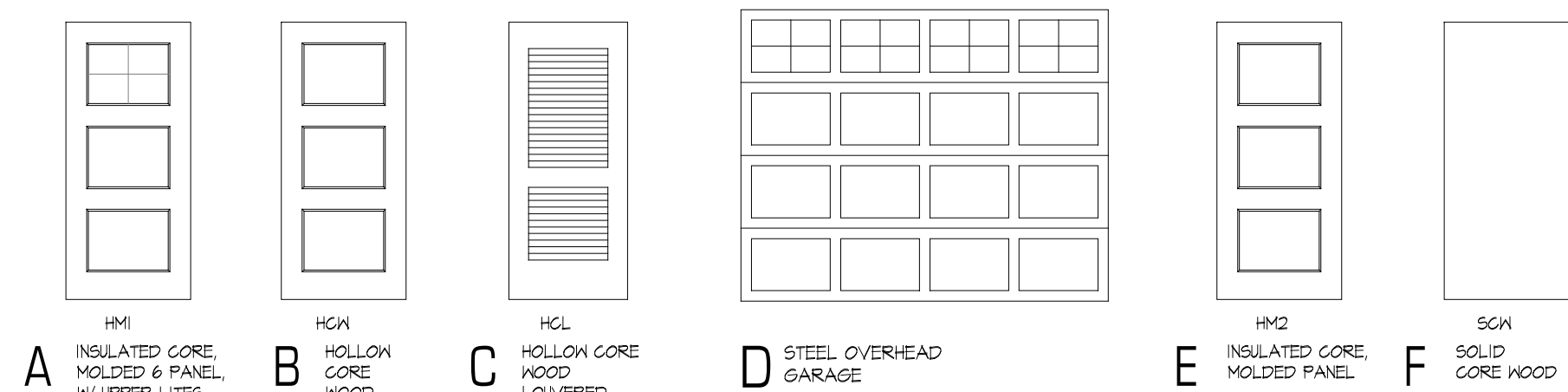
DOOR INFORMATION					FRAME INFORMATION						
NO.	SIZE	MAT. TYPE	DOOR TYPE	UL RATING	HDWR SET	MAT. TYPE	FRAME TYPE	HEAD	JAMB	SILL	REMARKS
1	3'-0" X 7'-0" X 1 3/4"	HM1	A	-	A	WD	E	A4/A3.4	A2/A3.4	C4/A3.4	1 - 8, 10
2	3'-0" X 6'-8" X 1 3/8"	SGN	F	20 MIN.	C	WD	B	C2/A3.4	C2/A3.4	-	2, 3, 8,
3	4'-0" X 7'-0" X 1 1/2"	STEEL	D	-	F	WD	D	C8/A3.4	A8/A3.4	-	9, 11, 12
4	3'-0" X 6'-8" X 1 3/8"	HCL	G	-	D	WD	B	C2/A3.4	C2/A3.4	-	1
5	3'-0" X 6'-8" X 1 3/8"	HM2	E	-	B	WD	A	A4/A3.4	A2/A3.4	C4/A3.4	1 - 4, 6, 8, 10
6	3'-0" X 6'-8" X 1 3/8"	HGN	B	-	E	WD	B	C2/A3.4	C2/A3.4	-	1
7	3'-0" X 6'-8" X 1 3/8" PAIR	HGN	B	-	H	WD	C	C2/A3.4	C2/A3.4	-	1
8	3'-0" X 6'-8" X 1 3/8"	HGN	B	-	E	WD	B	C2/A3.4	C2/A3.4	-	1
9	3'-0" X 6'-8" X 1 3/8"	HGN	B	-	E	WD	B	C2/A3.4	C2/A3.4	-	1
10	3'-0" X 6'-8" X 1 3/8" TFL	HGN	B	-	H	WD	C	C2/A3.4	C2/A3.4	-	1
11	3'-0" X 6'-8" X 1 3/8"	HGN	C	-	G	WD	-	C2/A3.4	C2/A3.4	-	1



## F6

### FRAME TYPES

SCALE: 1/4" = 1'-0"



## E6

### DOOR TYPES

SCALE: 1/4" = 1'-0"

## REMARKS

1. PAINT DOOR, FRAME, & TRIM
2. PAINT DOOR, FRAME & INTERIOR TRIM
3. USE 3" SCREWS TO INSTALL DOOR, HINGES & JAMB BRACE
4. INCLUDE 2" FLASHING AT DOOR HEAD TRIM, PREFINISHED SHEETMETAL, COLOR WHITE.
5. INSULATED DOOR, ENERGY STAR RATED, 0.21 U-VALUE MAX.
6. SEE EXTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
7. INSTALL DOOR VIEWER 5'-0" FROM FLOOR IN CENTER OF DOOR.
8. MIN. OF 4 3" SCREW FOR HINGES & DEADBOLT STRIKE PLATE.
9. PAINT FRAME & INTERIOR TRIM
10. INSULATED DOOR, ENERGY STAR RATED, .32 U-VALUE MAX, 0.20 SHGC.
11. 4'-0" X 7'-0" SECTIONAL OVERHEAD GARAGE DOOR, ALUM. PRE-FINISHED, DOOR TO MEET DASHA 90 MPH REQUIREMENTS. INCLUDE ALL REQUIRED TRACK, HARDWARE, WEATHER STRIPPING, ETC. FOR COMPLETE INSTALLATION. ALSO INCLUDE 3/4"HP GARAGE DOOR OPENER W/ ALL SAFETY SENSORS, 2 TRANSMITTERS & SURFACE MOUNTED WIRELESS KEYPAD.
12. 10'-0"X7'-0" OVERHEAD DOOR AT UNIT 1 OF BUILDING B.

## GENERAL DOOR NOTES

- A. ALL EXTERIOR UNIT ENTRY HARDWARE TO COMMERCIAL GRADE, U.N.O.. RESIDENTIAL BE GRADE HARDWARE IS ACCEPTABLE WITHIN INTERIOR.
- B. ENTRY DOOR NON-TURNING HANDLESETS TO BE SCHLAGE CENTURY' STYLE W/ BOVERY' KNOB, OR APPROVED EQUAL, U.N.O.. ALL INTERIOR LOCKSETS TO BE SCHLAGE PLYMOUTH STYLE W/ BOVERY' KNOB, OR APPROVED EQUAL, U.N.O..
- C. ALL HARDWARE FINISHES TO BE US15 (619) SATIN NICKEL, OR COMPARABLE FINISH, U.N.O..
- D. KEY ALL EXTERIOR & GARAGE DOORS SAME.
- E. FIELD VERIFY ALL DOORS PRIOR TO ORDERING & FABRICATION.
- F. WOOD TRIM AT INTERIOR DOORS SHALL BE 3/4"X3" (ACTUAL).
- G. WITHIN THE INTERIOR, UTILIZE BASE STOPS TO FULLEST EXTENT PRACTICAL, USING HINGE STOPS (I HIGH & LOW) ONLY WHERE BASE STOPS ARE NOT 1 APPLICABLE.

## HARDWARE SETS

- A. 3 (4) HINGES  
1 HANDLESET  
1 "JAMB BRACE"  
1 DEAD BOLT (1" THROW MIN.) W/ INTERIOR THUMBTURN  
1 DOOR STOP  
1 ALUMINUM THRESHOLD  
1 WEATHERSTRIPPING PACKAGE  
1 DOOR VIEWER, MIN. 180 DEGREE VIEW
- B. 3 (4) HINGES  
1 HANDLESET  
1 "JAMB BRACE"  
1 DEAD BOLT (1" THROW MIN.) W/ INTERIOR THUMBTURN  
1 DOOR STOP  
1 ALUMINUM THRESHOLD  
1 WEATHERSTRIPPING PACKAGE
- C. 3 (4) PR SPRING HINGES  
1 LOCKSET  
1 "JAMB BRACE"  
1 DEAD BOLT (1" THROW MIN.) W/ INTERIOR THUMBTURN  
1 DOOR STOP  
1 ALUMINUM THRESHOLD  
1 WEATHERSTRIPPING PACKAGE
- D. 3 HINGES  
1 PASSAGE SET  
1 DOOR STOP
- E. 3 HINGES  
1 PRIVACY SET  
1 DOOR STOP
- F. 1 GARAGE DOOR HARDWARE KIT  
1 TRACK KIT  
1 WEATHERSTRIPPING PACKAGE  
(1) 3/4"HP GARAGE DOOR OPENER  
ALL SAFETY SENSORS  
2 TRANSMITTERS  
1 SURFACE MOUNTED WIRELESS KEYPAD
- G. SMARTSTAND 6.6 FT. HEAVY DUTY SLIDING BARN DOOR KIT, COLOR BLACK  
1 DUMMY SET
- H. 1 EXTRA HEAVY-DUTY BI-PASS DOOR TRACK SYSTEM W/ METAL DOOR GUIDES  
1 METAL SLIDING DOOR PULL (2" DIA) PER DOOR  
DOOR BUMPERS, CLEAR (EACH END OF DOORS)

## ROOM FINISH SCHEDULE

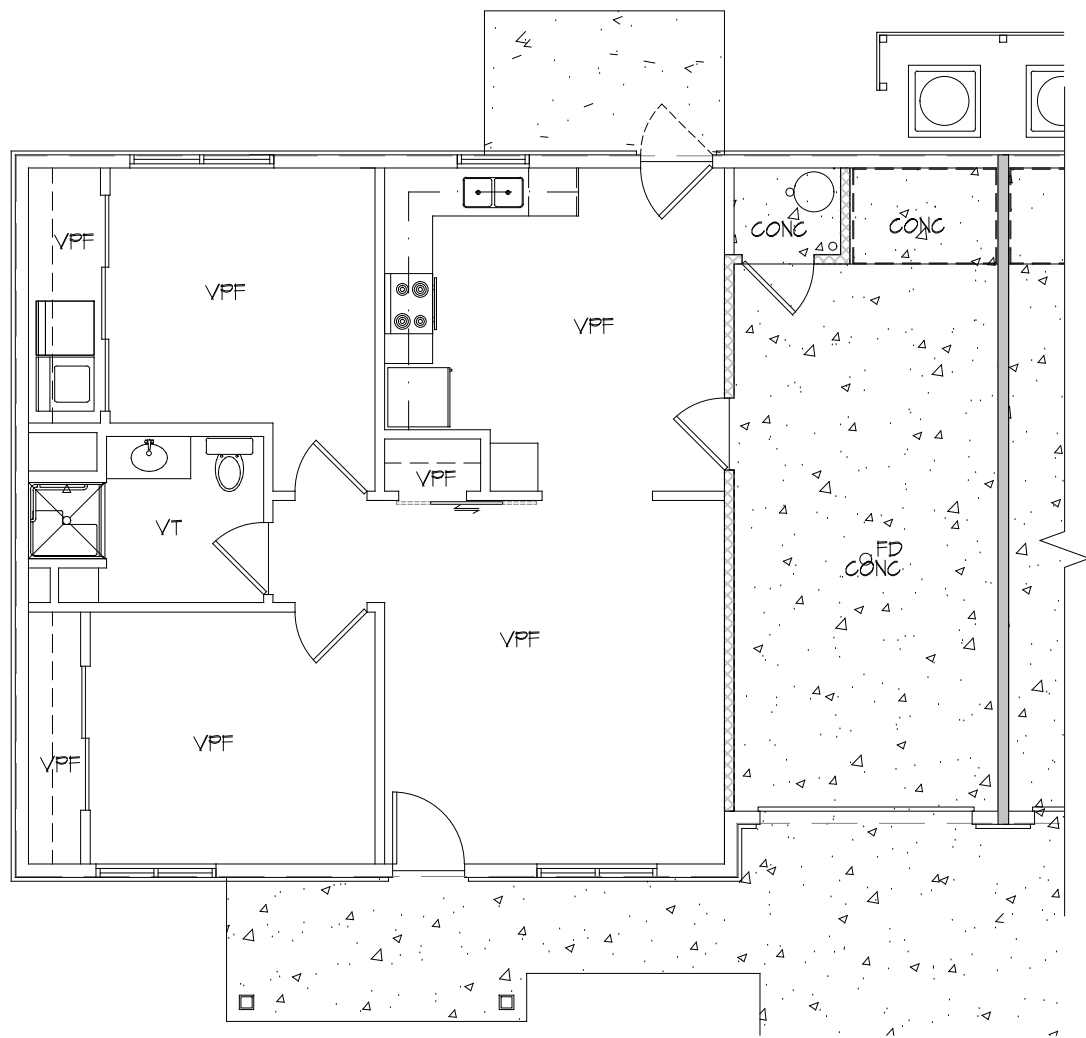
ROOM #	ROOM NAME	FLOOR FINISH	BASE				WALLS				CEILING		REMARKS
			N	E	S	W	N	E	S	W	FINISH	HEIGHT	
UNIT 1-2	UNIT / ENTRY & HALL	VFF	BI	BI	BI	BI	PI	PI	PI	PI	PC	9'-0"	
	LIVING	VFF	BI	BI	BI	BI	PI	PI	PI	PI	PC	9'-0"	
	KITCHEN	VT	BI	BI	BI	BI	PI	PI	PI	PI	PC	9'-0"	
	COAT	VFF	BI	BI	BI	BI	PI	PI	PI	PI	PC	9'-0"	
	BEDROOM 1	VFF	BI	BI	BI	BI	PI	PI	PI	PI	PC	9'-0"	
	CLOSET	VT	BI	BI	BI	BI	PI	PI	PI	PI	PC	9'-0"	
	BATH	VT	BI	BI	BI	BI	PI	PI	PI	PI	PC	9'-0"	
	BEDROOM 2	VFF	BI	BI	BI	BI	PI	PI	PI	PI	PC	9'-0"	
	CLOSET	VT	BI	BI	BI	BI	PI	PI	PI	PI	PC	9'-0"	
	GARAGE	CONC.	BI	BI	BI	BI	PI	PI	PI	PI	PC	9'-0"	
	MECHANICAL	CONC.	BI	BI	BI	BI	PI	PI	PI	PI	PC	9'-0"	

## MATERIAL SCHEDULE

KEY	MATERIAL	MANUFACTURER	PATTERN NO./COLOR	REMARKS	RE. SPEC. SECTION
FLOORING					
VFF	VINYL PLANK FLOORING	PATCRAFT	TBD		096516
VT	VINYL TILE	TBD	TBD		
CONC.	CONCRETE	TBD			
BASE					
BI	WOOD BASE	FMD	1/2" X 4" WITH 3/4" QUARTER ROUND SHOE	PAINT P4	
WALLS					
P1	PAINT - WALLS	SHERWIN WILLIAMS	TO BE DETERMINED		099123
P2	PAINT - TRIM AND DOORS	SHERWIN WILLIAMS	TO BE DETERMINED		099123
P3	PAINT - CEILING	SHERWIN WILLIAMS	TO BE DETERMINED		099123
CEILING					
CSB1	CEILING - GYPSUM BOARD PAINT		PAINT P3		
CASEWORK					
KG1	CABINETS	GRANDVIEW INDUST.	SHAKER / FINISH TO BE DETERMINED	1	123530
PLG1	PLASTIC LAMINATE COUNTERTOPS	FORMICA OR WILSONART	TO BE DETERMINED	2, 3	123623,13

## REMARKS - MATERIAL SCHEDULE / ROOM FINISH SCEDULE

1. CABINET PULLS - AMEROCK CORP. STYLE BPS2495610 OR APPROVED EQUAL.
2. POST FORMED EDGE. CAULK JOINTS W/ CLEAR SEALANT.
3. INCLUDE 4" MATCHING BACKSPLASH & SIDESPLASH AT WALLS.



## PARTIAL FLOOR FINISH PLAN

NOTE: ALL OTHER UNITS ARE REVERSED OR SIMILAR.

## GENERAL MATERIAL SCHEDULE NOTES

- A. REFER TO FLOOR FINISH PLANS FOR LIMITS OF FLOORING.
- B. ALL FLOOR FINISH TRANSITIONS SHALL BE RESILIENT TYPE.
- C. PAINT INTERIOR WOOD DOORS, TRIM, & BASE P2.
- D. SHERWIN WILLIAMS' PAINTS ARE SELECTED AS BASIS FOR DESIGN. COLOR MATCHING THESE SELECTIONS WITH APPROVED PAINT VENDORS IS ALLOWABLE.

## GENERAL FINISH NOTES (GFN)

- A. ALL CEILINGS & WALLS ARE GYPSUM BOARD, ORANGE PEEL FINISH ON WALLS & CEILING. PAINT.
- B. PROVIDE FLOOR TRANSITIONS AS REQUIRED.
- C. ALL PLUMBING FIXTURES, TOILET ACCESSORIES, HARDWARE, ETC. TO BE US15 (619) SATIN NICKEL (OR COMPARABLE) FINISH, U.N.O..
- D. CLEAN ALL ELECTRICAL OUTLETS, SWITCHES, ETC. PRIOR TO INSTALLATION OF COVERPLATES.
- E. # OF PAINT COATS: 1 TINTED PRIME COAT ALL SURFACES TO BE PAINTED, TYPE COMPATIBLE BASED UPON SURFACE & FINISH PAINT TYPE (PREP SURFACES AS NEEDED) 1 COAT FINISH PAINT.

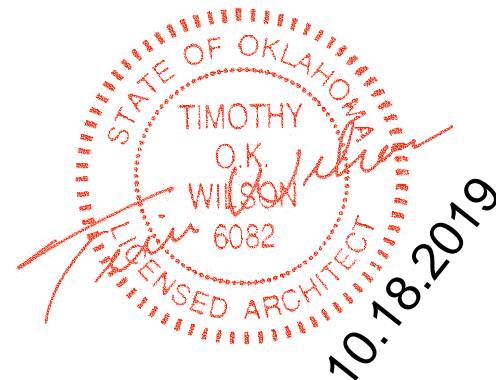


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315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - 1.816.531.1996 F 816.531.1978

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DOOR AND ROOM  
FINISH SCHEDULES &  
FINISH FLOOR PLAN

ISSUE DATE:  
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REVISIONS:

PROJECT NO.: 1902

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may be submitted as a substitution request. Submittal must show that alternative fasteners will not reduce the capacity of the connection.

- ### 13. Shop Drawing Reviews

- Contractor's (SC) shop drawings and related submittals (as indicated below) with respect to the ability of the detailed work, when approved by the Project Architect, to be an integral element of the overall structural system designed by Bob D. Campbell and Company, Inc.
- B. Review of submittal of a shop drawing or any related material to Bob D. Campbell and Company, Inc., the SC shall:
1. Review each submittal for conformance with the means, methods, techniques, sequences and operations of construction and safety precautions and programmatic, intellectual, thereto, all of which are the sole responsibility of the SC.
  2. Review and approve each submittal.
  3. Stamp each submittal as approved.
- C. Bob D. Campbell and Company, Inc. assume that no submission comprises a variation unless the SC advises Bob D. Campbell and Company, Inc. with written documentation.
- D. Shop drawings and related material (if any required are indicated on the drawings) to Bob D. Campbell and Company, Inc. require more than ten (10) working days to perform the review. Bob D. Campbell and Company, Inc. shall notify the SC:
1. Concrete mix designs and material certificates including admixtures and components 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. Miscellaneous anchors shown on the structural drawings.
  4. Wood truss design calculations and detailed erection and fabrication drawings. Standard stick framing shop drawings.
- E. Bob D. Campbell and Company, Inc. shall review shop drawings and related materials with comments provided that each submission has been approved by the Project Architect. If not approved, the SC shall return without comment unrequired material or submissions not SC approval stamp.

14. Structural Special Inspection:

- A. The structural design for this project is based on completion of special inspections during construction in accordance with section 1703.15 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 contractor shall provide advance notification to the inspector when items requiring inspection are ready to be inspected and provide access for those 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) High Strength Bolting
  - 7) Post-installed Anchors
  - 8) Wood shear walls and holdowns
  - 9) Load gravity trusses and placement
- C. The special inspector shall furnish inspection reports to the building official, owner, architect and structural engineer, and any other designated person.
  - 1) All discrepancies shall be brought to the immediate attention of the contractor for correction, then, if uncorrected, to the proper design professional or other authority having jurisdiction.
  - 2) 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 municipality provisions of the building code.

- ## 15. Copyright and Disclaimer

- A. All drawings in the structural set (S-series drawings) are the copyrighted work of Bob D. Campbell and Company, Inc. These drawings may not be photographed, traced, or copies in any manner without the written permission of Bob D. Campbell and Company, Inc. Exception: Original drawings may be printed for distribution to the architect, engineer, and contractor for coordination, bidding, and construction. Subcontractors may not reproduce these drawings for any purpose or in any manner.
- B. I, Michael J. Folbe, PE, registered engineer and a representative of Bob D. Campbell and Company, Inc. do hereby accept professional responsibility as required by the professional registration laws of this state for the structural design drawings consisting of S-series drawings and S-series drawings in the construction documents 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  $P_g = 20 \text{ psf}$
- Flat Roof Snow Load  $P_f = 14 \text{ psf}$
- Snow Exposure Factor  $C_e = 1.0$
- Snow Load Importance Factor  $I_s = 1.0$
- Thermal Factor  $C_t = 1.0$
- Drift per ASCE/SEI T-10

**WIND LOADING:**

Main Wind-Force Resisting System (MWFRS):

- Ultimate Design Wind Speed  $V_{ult} = 115 \text{ mph}$
- Nominal Design Wind Speed  $V_{all} = 84 \text{ mph}$
- Risk Category  $II$
- Wind Load Importance Factor  $I_w = 1.0$
- Wind Exposure Category  $C$
- Internal Pressure Coefficient (Enclosed)  $G C P_i = +(-0.18)$

**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 T-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  $I_s = 1.0$
- Spectral Response Acceleration Parameters:
  - $S_{ds} = 0.10g$
  - $S_{d1} = 0.08g$
- Site Class  $C$
- Seismic Design Category B

<h1 style="text-align: center;">NAILING SCHEDULE</h1> <p style="text-align: right;">(REFER TO NOTES #1 AND #2)</p>		
CONNECTION	ATTACHMENTS (REF NOTE #3 AND #4)	
JOIST TO SILL OR 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 8'0" - TYPICAL FACE NAIL 4-3" x 0.131" NAILS AT 16'0" - BRACED WALL PANELS	16d BOX NAIL5Z AT 16'0" MAX. FACE NAILING 3-16d BOX NAILS AT 16'0" - 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 8'0" - FACE NAIL	16d BOX NAILS AT 24'0" MAX. FACE NAIL
DOUBLED TOP PLATES	3" x 0.131" NAILS AT 12'0" - FACE NAIL	16d BOX NAILS AT 16'0" 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 6'0" -TOENAIL	8d NAILS AT 6'0" 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 10'0" - ALONG EACH EDGE	16d NAILS AT 16'0" 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 16'0"	16d NAILS AT 24'0" MAX.
BUILT-UP GIRDER AND BEAMS	3" x 0.131" NAILS AT 24'0" - FACE NAILED TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES 3- 3" x 0.131" NAILS AT ENDS AND EACH SPlice	20d NAILS AT 32'0" MAX. TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES. 2-20d NAILS AT ENDS AND EACH SPlice
BUILT-UP LAMINATED VENUE LUMBER BEAMS	3" x 0.131" NAILS AT 6'0" - TOP AND BOTTOM ALONG EDGE	16d NAILS AT 12'0" - TOP AND BOTTOM ALONG EDGE
2" PLANKING	4- 3" x 0.131" NAILS AT EACH SUPPORT	16d NAILS AT EACH SUPPORT

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

HEADER SCHEDULE				
TYPE	HEADER SIZE	BEARING STUDS BELOW EACH END OF HEADER	CONTINUOUS JAMB STUDS AT EACH END	REMARKS
(B-1A)	(3) 2x10's n/ (2) 1/2" PLYWOOD SPACERS	(1) 2x6	(2) 2x6	RE: SECTIONS 1 & 1A ON 50.2
(B-1B)	(3) @ 1/4" DEEP LVL's	(2) 2x6	(2) 2x6	RE: SECTIONS 1 & 1A ON 50.2

STUD BEARING WALL SCHEDULE	
1st FLOOR EXTERIOR WALLS	2x6 @16'oc
1st FLOOR INTERIOR WALLS	2x6 @16'oc

WALL SHEATHING SCHEDULE			
LOCATION	SHEATHING	FASTENER SPACING	
		PANEL EDGE	FIELD
EXTERIOR WALL (EXTERIOR SIDE) UNO.	¾" OSB	8d COMMON NAILS @ 6"oc	8d COMMON NAILS @ 12"oc
EXTERIOR WALL (INTERIOR SIDE) UNO.	¾" GYPSUM BOARD	No. 6 TYPE S OR M 1½" LONG DRYWALL SCREWS @ 4"oc	No. 6 TYPE S OR M 1½" LONG DRYWALL SCREWS @ 7"oc
INTERIOR WALL UNO.	¾" GYPSUM BOARD	No. 6 TYPE S OR M 1½" LONG DRYWALL SCREWS @ 4"oc	No. 6 TYPE S OR M 1½" LONG DRYWALL SCREWS @ 7"oc

--	--	--

ROOF DECK SCHEDULE			
LOCATION	DECKING	FASTENER SPACING	
		PANEL EDGE	FIELD
ROOF DECK	19/32" OSB	8d COMMON NAILS @6"oc	8d COMMON NAILS @12"oc



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

SEAL  
ENGINEER - MICHAEL J. FALBE  
LICENSE NO. 20065



## GENERAL NOTES & SCHEDULES

ISSUE DATE:

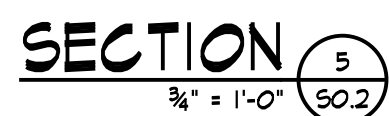
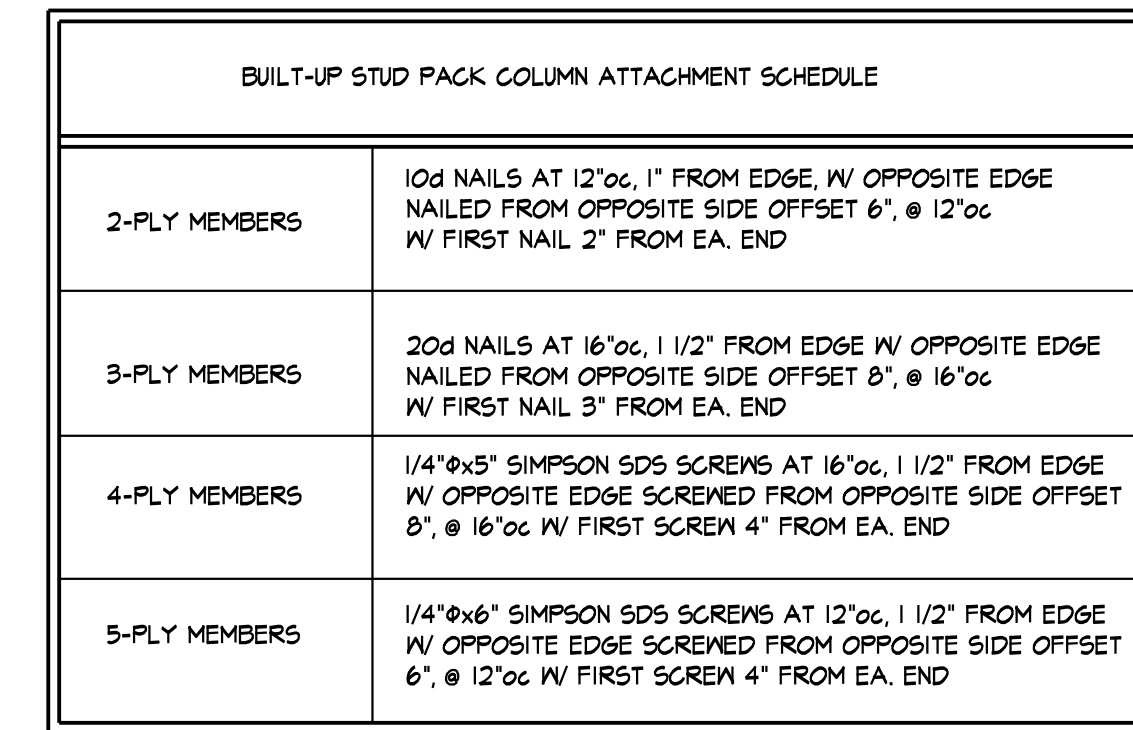
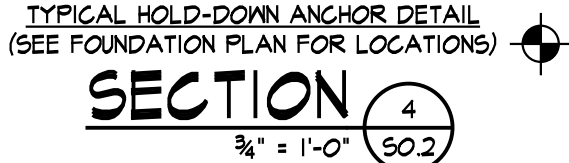
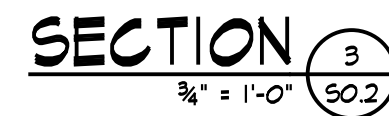
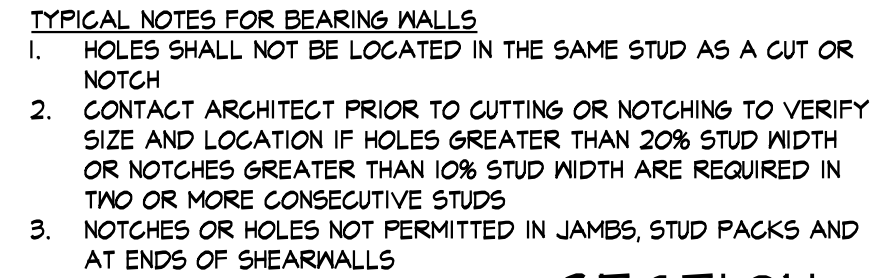
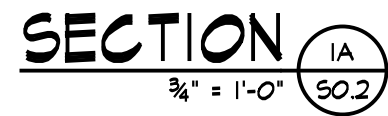
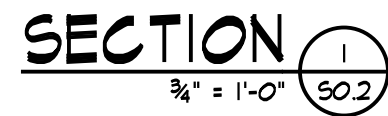
OCTOBER 18, 2019

## REVISIONS

PROJECT NO.: 1902

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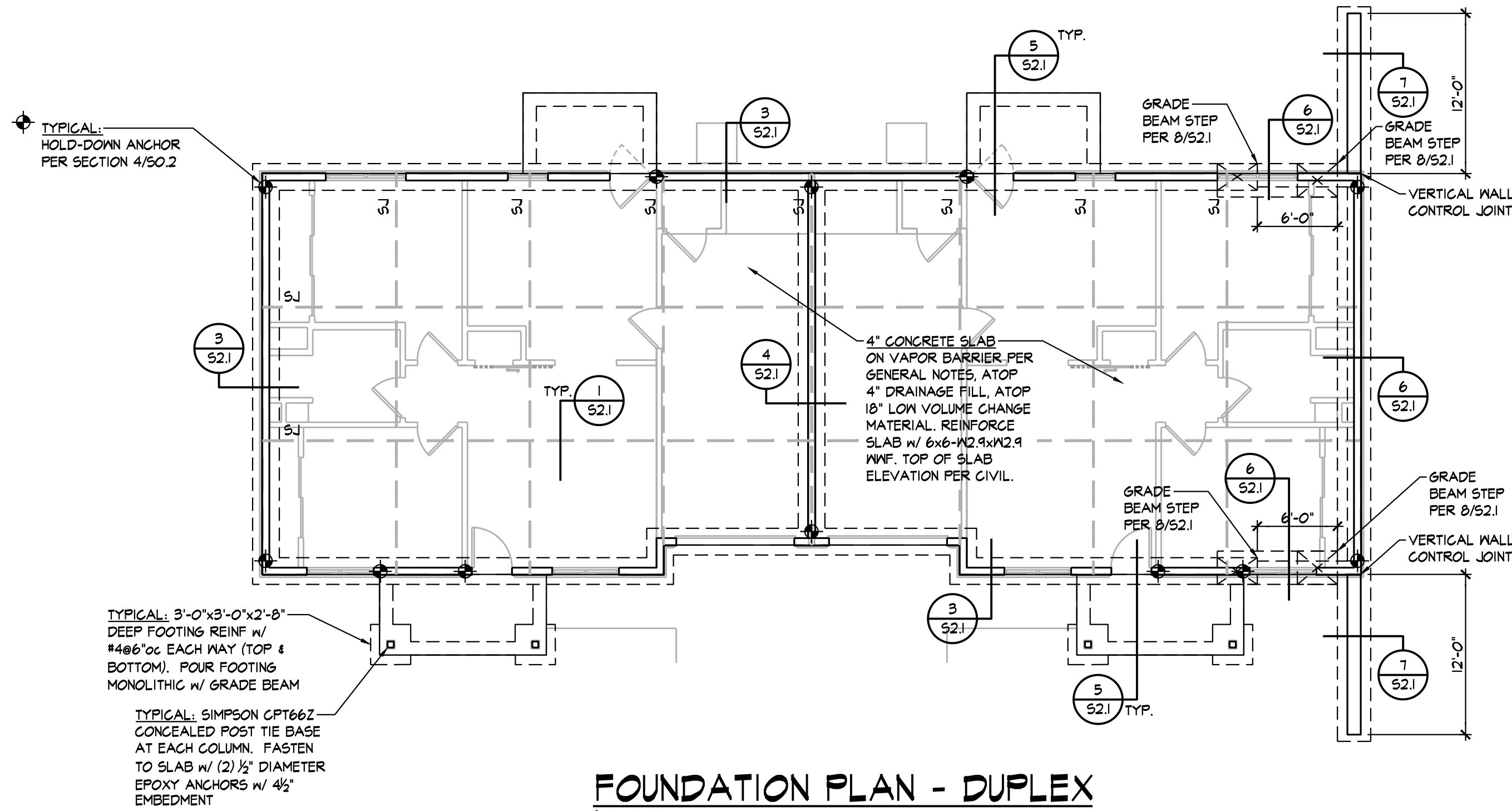




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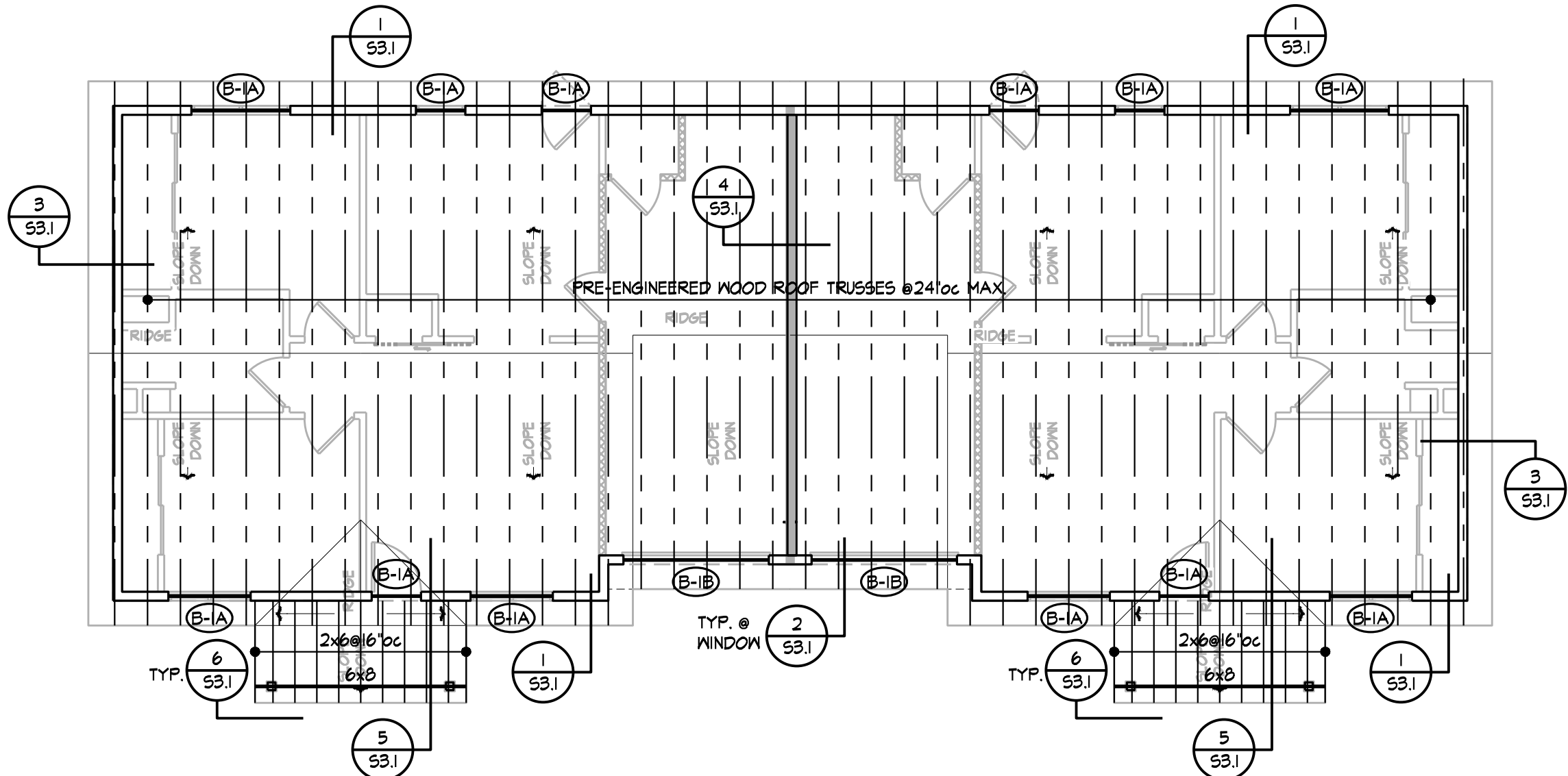


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FOUNDATION PLAN - DUPLEX

- NOTES:
1. REFER TO GENERAL NOTES ON SHEET S0.1.
  2. VERIFY ALL DIMENSIONS & ELEVATIONS W/ ARCHITECTURAL DRAWINGS.
  3.  INDICATES SIMPSON HOLD-DOWN ANCHOR PER SECTION 4/50.2.



ROOF FRAMING PLAN - DUPLEX

- NOTES:
1. REFER TO GENERAL NOTES ON SHEET S0.1.
  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).

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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

SEAL

ENGINEER - MICHAEL J. FALBE  
LICENSE NO. 20065



DUPLEX BUILDING  
STRUCTURAL  
PLANS

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B S1.1

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SEAL  
R - MICHAEL J. FALBE  
ENSE NO. 20065



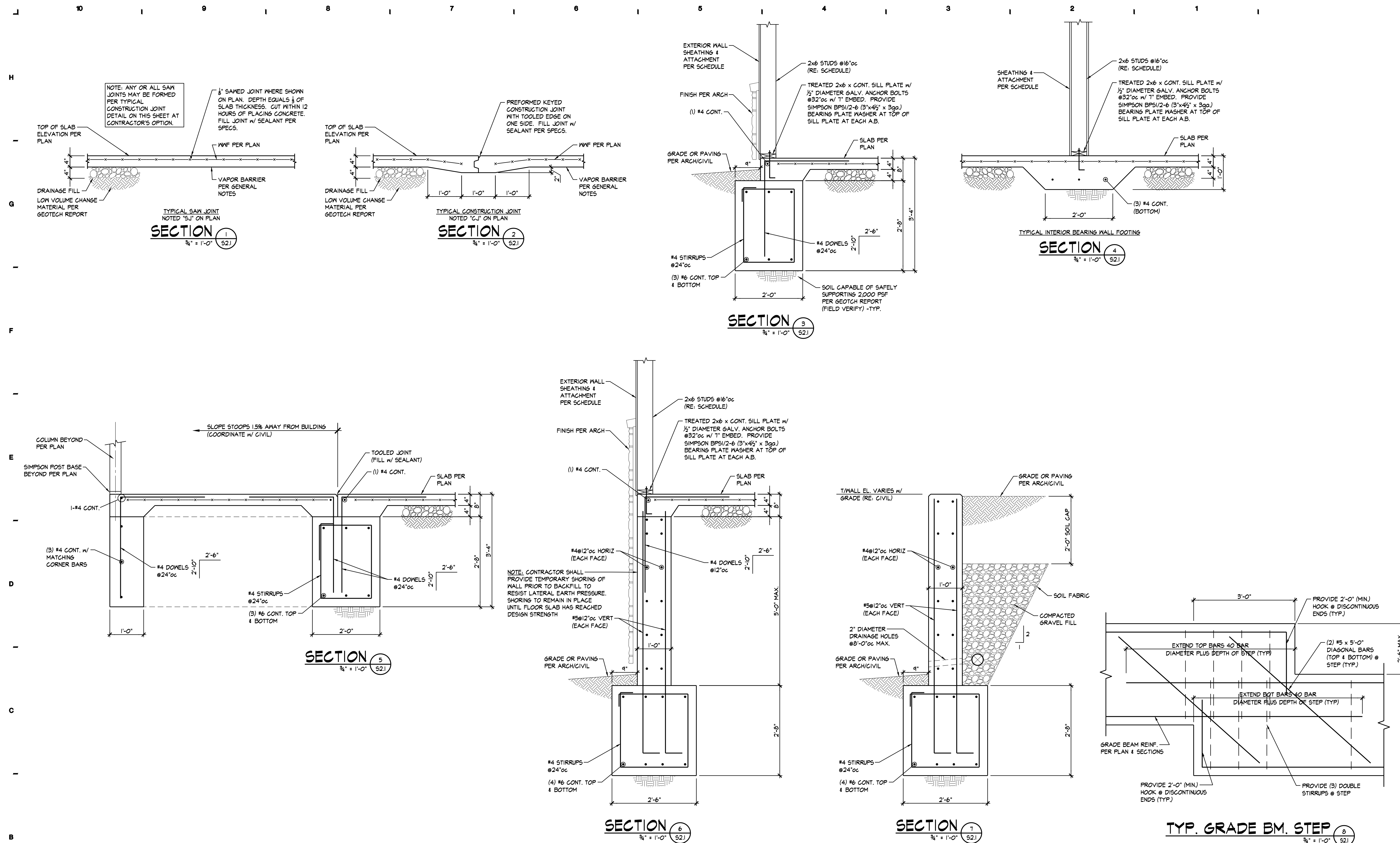
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SECTIONS

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REVISIONS:

PROJECT NO.: 1902

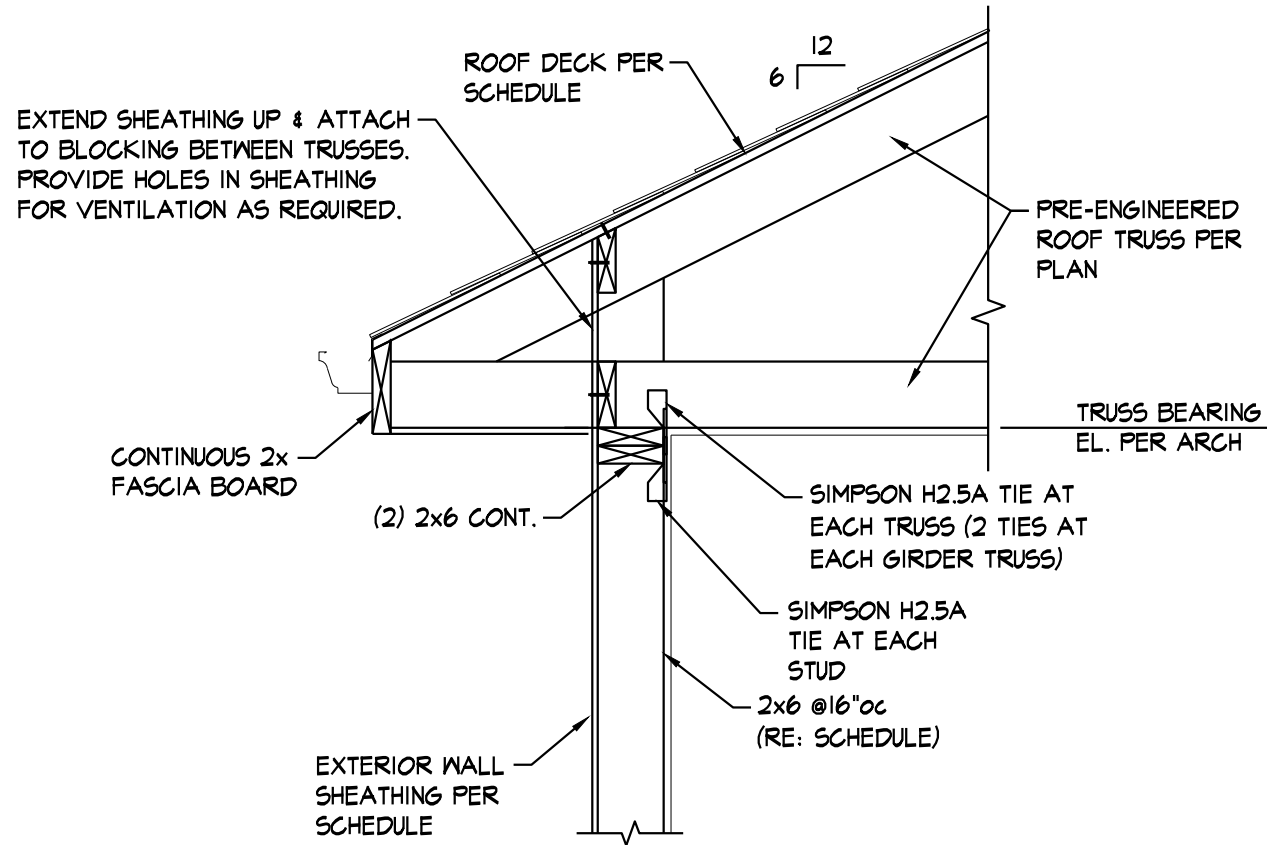
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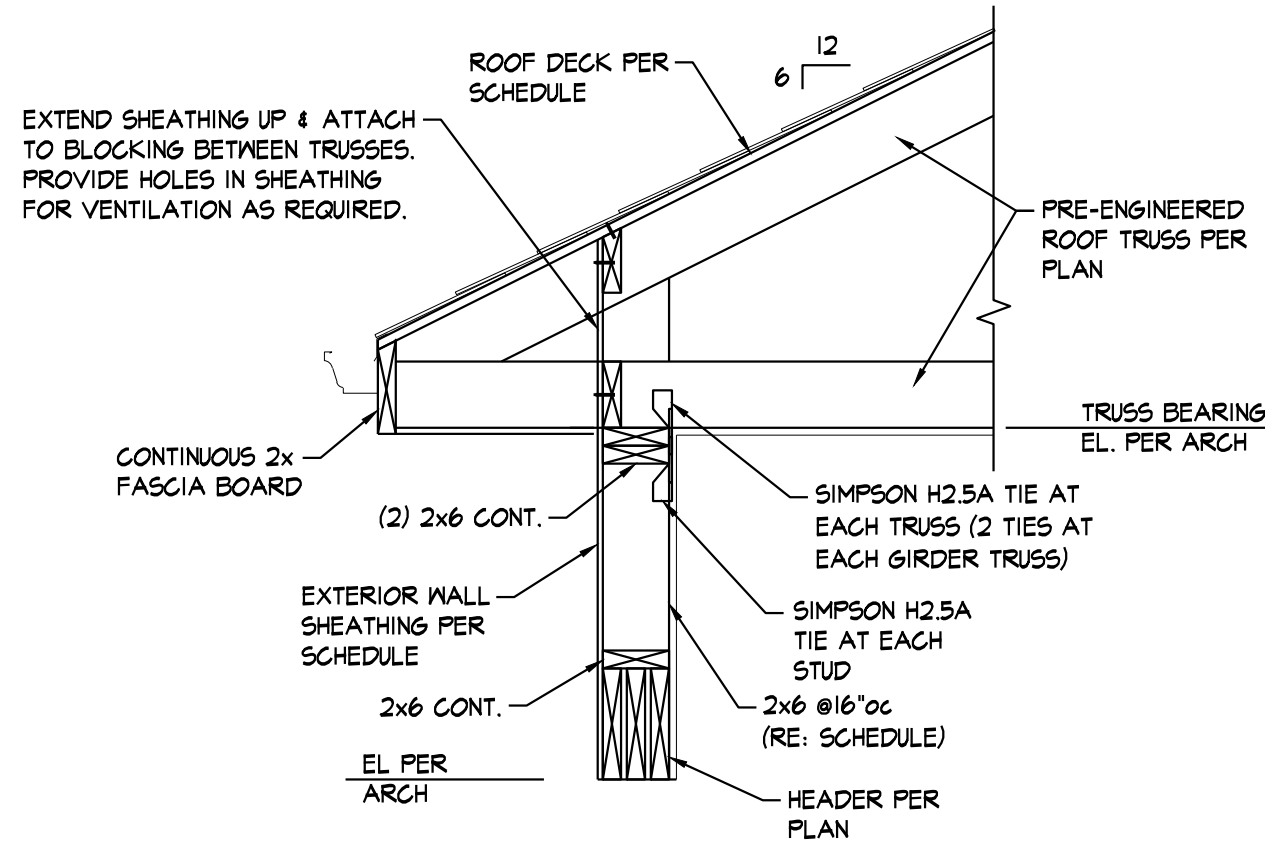




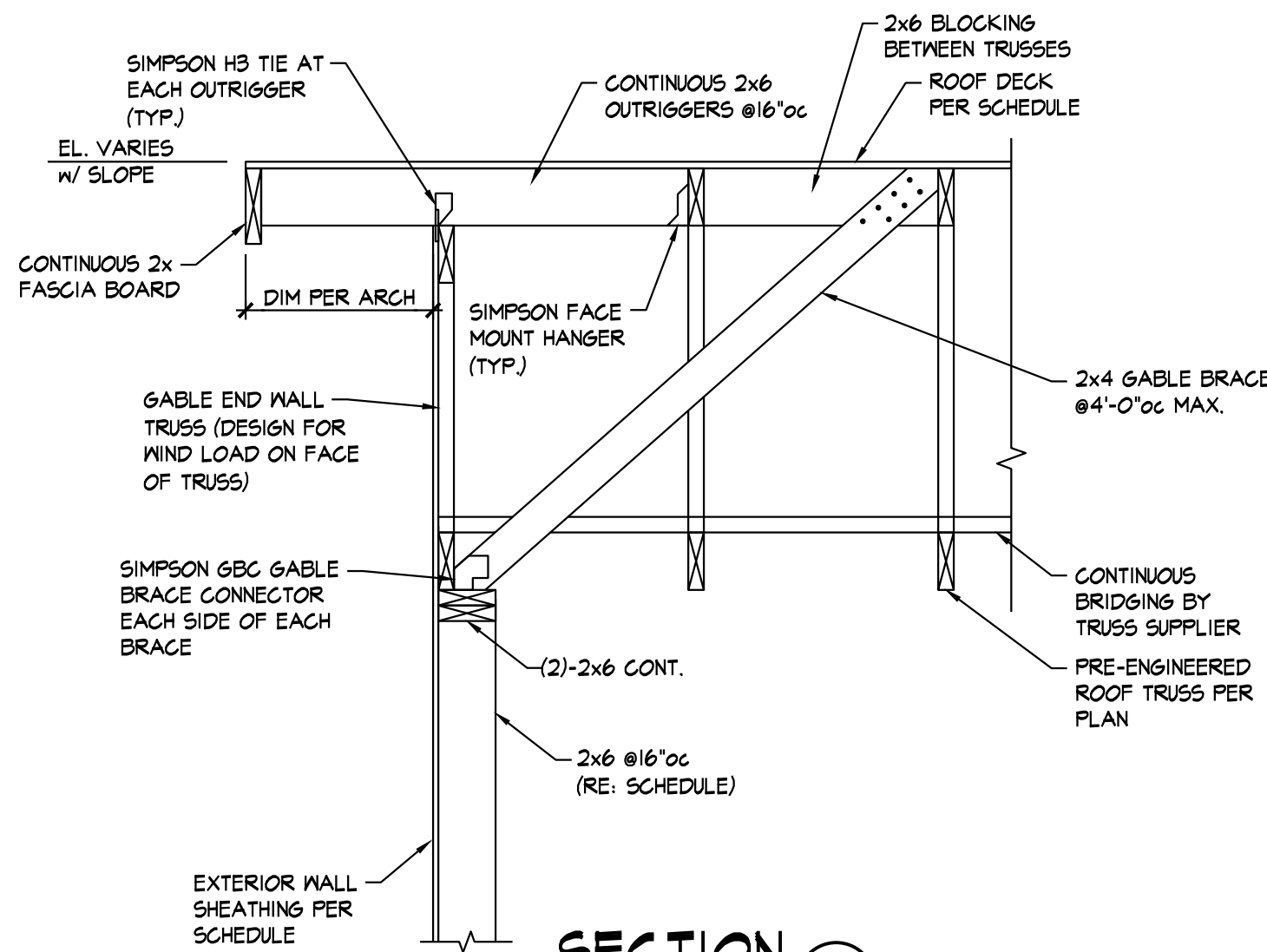
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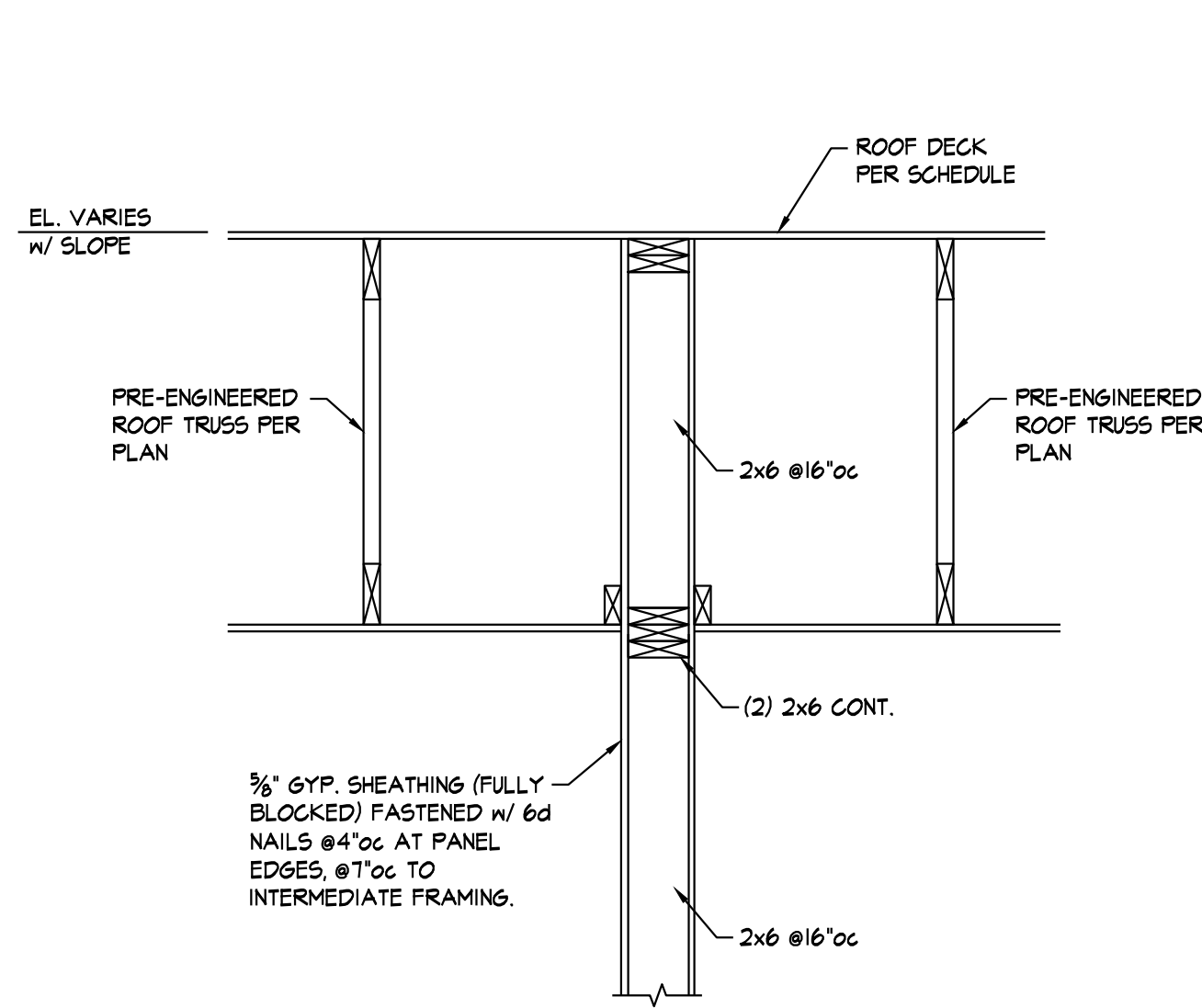
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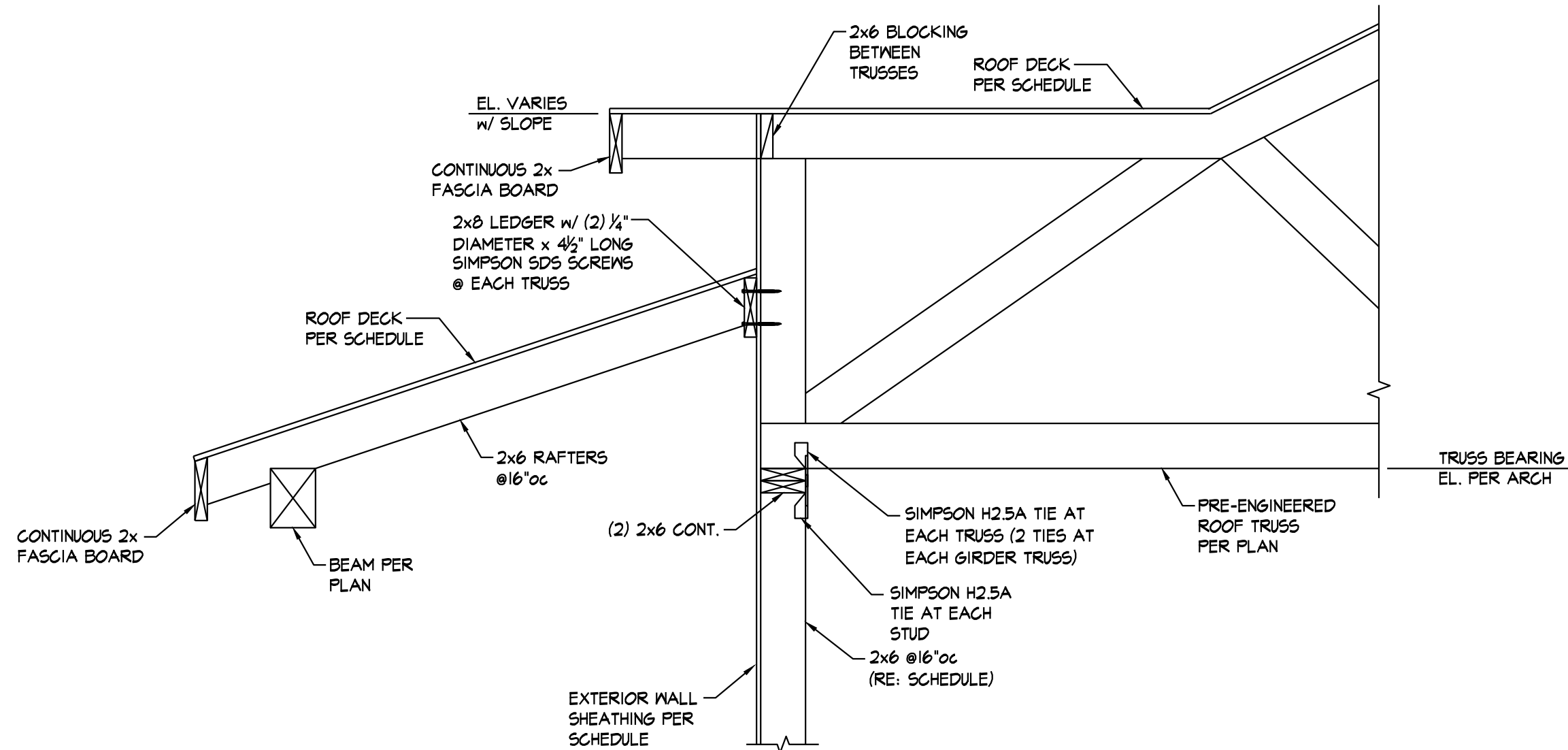
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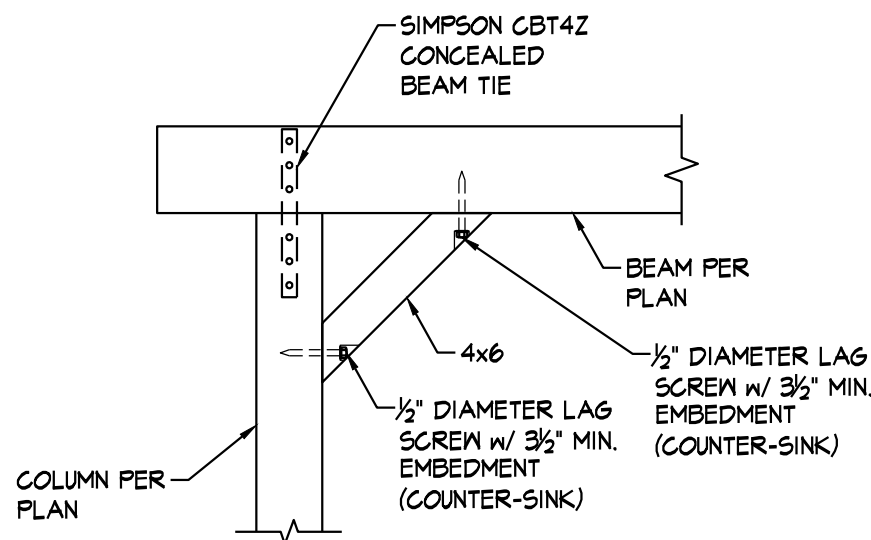
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3/4" = 1'-0" S3.1



SECTION 4  
3/4" = 1'-0" S3.1



SECTION 5  
3/4" = 1'-0" S3.1



SECTION 6  
3/4" = 1'-0" S3.1

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SECTIONS

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B S3.1

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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.
	140 DEGREE DOMESTIC HOT WATER
	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
	WALL MOUNTED FIXTURE
	POLE MOUNTED LIGHT (NUMBER OF HEADS AS SHOWN)
	TENON MOUNTED POLE LIGHT
	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. UNLO.)
	#14'S (WIRE NUMBER INDICATED)
	#16'S (WIRE NUMBER INDICATED)
	EXPOSED CONDUIT
	CONDUIT TURNING DOWN
	CONDUIT TURNING UP

## WIRING DEVICES &amp; 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
	DATA OUTLET
	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

## FIRE ALARM

	FIRE ALARM CONTROL PANEL
	ANNUNCIATOR PANEL
	FIRE ALARM POWER EXTENDER
	FULL 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
	HORN/STROBE
	STROBE
	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
	STAFF STATION
	DOME LIGHT
	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)	O	OXYGEN
A/C	AIR CONDITIONING	OA	OUTSIDE AIR
AF	AMPERE FUSE	OC	ON CENTER
AFG	AREA FOR EVACUATION ASSISTANCE	OD	OUTSIDE DIAMETER
AFF	ABOVE FINISHED FLOOR	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
AFS	ABOVE FINISHED GRADE	ORD	OVERFLOW ROOF DRAIN
AHU	AIR HANDLING UNIT	PA	PIPE ANCHOR
AIG	AMPERE INTERRUPTING CURRENT	PCNR	PRIMARY CHILLED WATER RETURN
AL	ALUMINUM	PCAS	PRIMARY CHILLED WATER SUPPLY
APD	AIR PRESSURE DROP	PCR	PUMPED CONDENSATE RETURN
ATS	AUTOMATIC TRANSFER SWITCH	PD	PRESSURE DROP (FEET OF WATER)
AV	ACID VENT	PHAGE	PHAGE
AW	ACID WASTE	PHWR	PRIMARY HEATING WATER RETURN
AWG	AMERICAN WIRE GAUGE	PHWG	PRIMARY HEATING WATER SUPPLY
BCU	BLOWER COIL UNIT	PNL	PANEL
BFP	BACKFLOW PREVENTER	PRV	PRESSURE REDUCING VALVE
BHP	BRAKE HORSEPOWER	PS	PULGE START
BIF	BELOW FINISHED FLOOR	PSI	POUNDS PER SQUARE INCH
BOD	BOTTOM OF DUCT	PSIA	POUNDS PER SQUARE INCH-ABSOLUTE
BOP	BOTTOM OF PIPE	PSIG	POUNDS PER SQUARE INCH-GAUGE
BOS	BOTTOM OF STRUCTURE	PT	POTENTIAL TRANSFORMER
BTUH	BRITISH THERMAL UNITS PER HOUR	QTY	QUANTITY
C	CONDUIT	R	REFRIGERANT
CT	CURRENT TRANSFORMER	RA	RETURN AIR
CTV	CABLE TELEVISION SYSTEM	RCP	REINFORCED CONCRETE PIPE
CAV	CONSTANT AIR VOLUME	RD	ROOF DRAIN
CCTV	CLOSED CIRCUIT TELEVISION	REV	REVISION
CP	CONDUITATE DRAIN	RFF	RETURN FAN
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	RH	RELATIVE HUMIDITY
CFH	CUBIC FEET PER HOUR	RLA	RUNNING LOAD AMPS
CFM	CUBIC FEET PER MINUTE	RLM	REVOLUTIONS PER MINUTE
CH	CHILLER	RTU	ROOF TOP UNIT
CO	CLEANOUT, CARBON MONOXIDE	S	SINK, STEAM
CO2	CARBON DIOXIDE	SA	SANITARY AIR
CTR	COOLING TOWER	SAN	SANITARY SEWER
CTS	COOLING TOWER RETURN	SCAR	SECONDARY CHILLED WATER RETURN
CU	COPPER, CONDENSING UNIT	SCAS	SECONDARY CHILLED WATER SUPPLY
CAH	CABINET UNIT HEATER	SD	SMOKE DAMPER, STORM DRAIN
CW	COLD WATER	SFF	SURFACE FAN
CNR	CHILLED WATER RETURN	SHWR	SECONDARY HEATING WATER RETURN
CMS	CHILLED WATER SUPPLY	SHWG	SECONDARY HEATING WATER SUPPLY
D	DRAIN	SP	STATIC PRESSURE
DDG	DIRECT DIGITAL CONTROL	SOFT	SQUARE FOOT/SQUARE FEET
DFU	DRAINAGE FIXTURE UNITS	STARYTOR	STARTY/TOR
DN	DOWN	SS	SERVICE SINK, STAINLESS STEEL
DPDT	DOUBLE-POLE, DOUBLE-THROW	STD	STORM DRAIN, SOUND TRAP, STEAM TRAP
DPSST	DOUBLE-POLE, SINGLE-THROW	STM	SOUND TRANSMISSION CLASS
DX	DIRECT EXPANSION	ST	STEAM
E	EMERGENCY	SN	SOFT WATER
EA	EXHAUST AIR	SHBD	SHUTBOARD
EAT	ENTERING AIR TEMPERATURE	T	TEMPERED WATER
ET/C	ELECTRICAL CONTRACTOR	TG	TEMPERATURE GAUGE
EDB	ENTERING DRY BULB	TDH	TOTAL DYNAMIC HEAD
EF	EXHAUST FAN	TSP	TOTAL STATIC PRESSURE
EJ	EXPANSION JOINT	TESTAT	TEST
ESFR	EARLY SUPPRESSION FAST RESPONSE	TU	TERMINAL UNIT
ESP	EXTERNAL STATIC PRESSURE	UF	UNDER FLOOR
ETR	EXISTING TO REMAIN	UG	UNDER GROUND
EMB	ENTERING WET BULB	UH	UNIT HEATER
EMC	ELECTRIC WATER COOLER	UL	UNDERWRITERS LABORATORIES, INC.
FAA	FIRE ALARM ANNUNCIATOR	UNO	UNLESS NOTED OTHERWISE
FACP	FIRE ALARM CONTROL PANEL	UPS	UNINTERRUPTIBLE POWER SUPPLY
FBO	FURNISHED BY OTHERS	V	VACUUM
FCO	FLOOR CLEANOUT	VAC	VOLTS ALTERNATING CURRENT
FAU	FAN COOL UNIT	VAV	VARIABLE AIR VOLUME
FD	FIRE DAMPER, FLOOR DRAIN	VCP	VITRIFIED CLAY PIPE
FL	FINISHED FLOOR	VD	VOLUME DAMPER
VGCO	FINISHED GRADE CLEANOUT	VFD	VARIABLE FREQUENCY DRIVE
FLA	FULL LOAD AMPS	VTR	VENT THROUGH ROOF
FG	FIRE PROTECTION CONTRACTOR	W	MATER SERVICE, WATTS
FTU	FAN TERMINAL UNIT	WB	WET BULB
FVNR	FULL VOLTAGE, NON-REVERSING	WCO	WALL CLEANOUT
G	NATURAL GAS	WC	WATER COLUMN, WATER CLOSET
G/C	GENERAL CONTRACTOR	WH	WALL HYDRANT
GFI	GROUND FAULT INTERRUPTER	WPD	WATER PRESSURE DROP
GND	GROUND	WP	WEATHERPROOF
GN	GALLONS PER HOUR	WT	WATERTIGHT, WEIGHT
GPM	GALLONS PER MINUTE	XFMR	TRANSFORMER
GW	GREASE WASTE	XP	EXPLOSION-PROOF
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	HOT WATER RETURN		
HWS	HOT WATER SUPPLY		
ID	INSIDE DIAMETER		
IE	INVERT ELEVATION		
IG	ISOLATED GROUND		
IN, WC	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		
LDB	LEAVING AIR TEMPERATURE		
LP	LEAVING DRY BULB		
LP	LINEAR FEET		
LPC	LOW PRESSURE		
LPG	LOW PRESSURE STEAM CONDENSATE,		
LPS	LIQUIFIED PETROLEUM GAS (PROPANE)		
LRA	LOCKED ROTOR AMPS		
LMB	LEAVING MET BULB		
LNT	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		
MAFR	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		

## GENERAL

	HEAVY LINEWEIGHT INDICATES NEW WORK
	CONNECT NEW TO EXISTING
	LIGHT AND SCREENED LINEWEIGHT INDICATES EXISTING-TO-REMAIN
	DARK AND DASHED LINEWEIGHT INDICATES DEMOLITION WHEN SHOWN ON DEMOLITION PLAN OR NOTED
	POINT OF DISCONNECT FROM EXISTING
	CONSTRUCTION NOTE
	REVISION NUMBER
	SECTION CUT THROUGH DRAWING
	AREA OF ENLARGEMENT
	PLAN NUMBER
	SHEET WHERE ENLARGED PLAN IS DRAWN

THIS IS A MASTER LEGEND.  
NOT ALL SYMBOLS, ABBREVIATIONS,  
ETC., ARE USED ON THE DRAWINGS.

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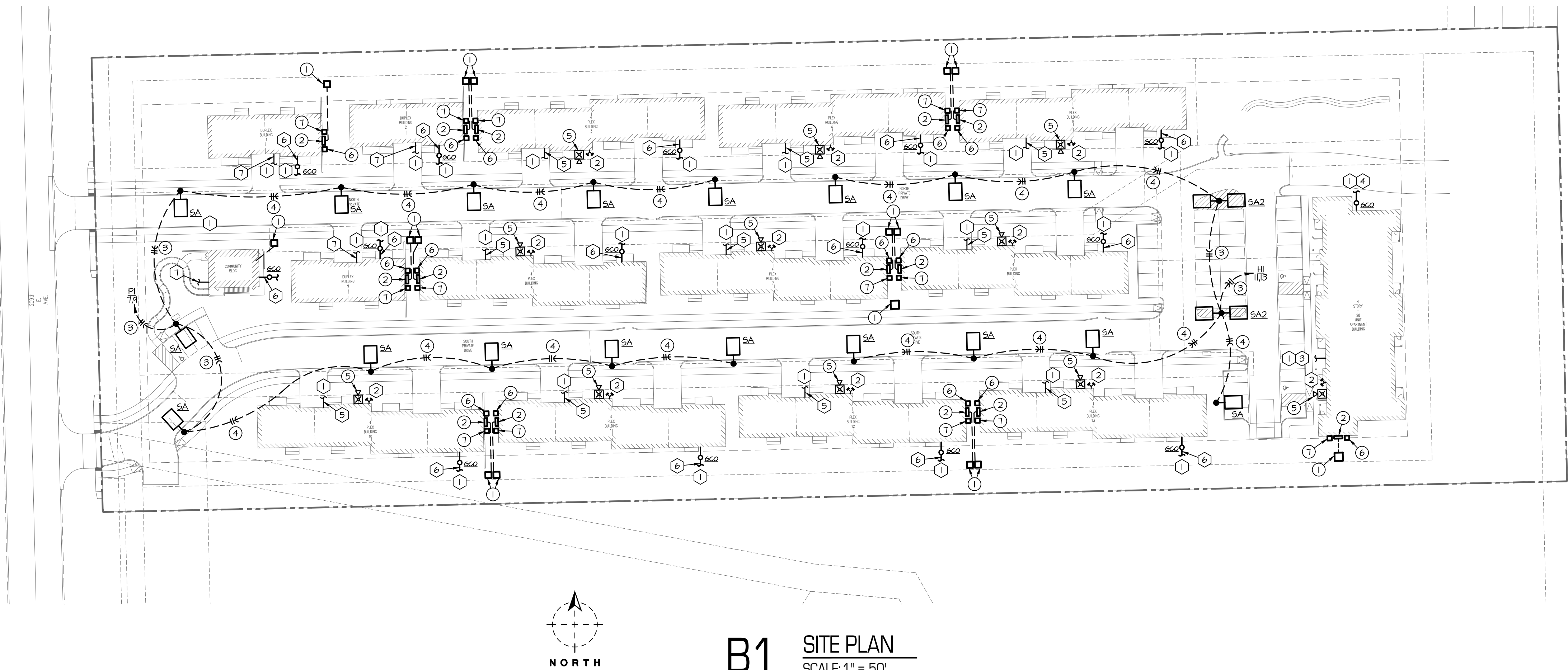
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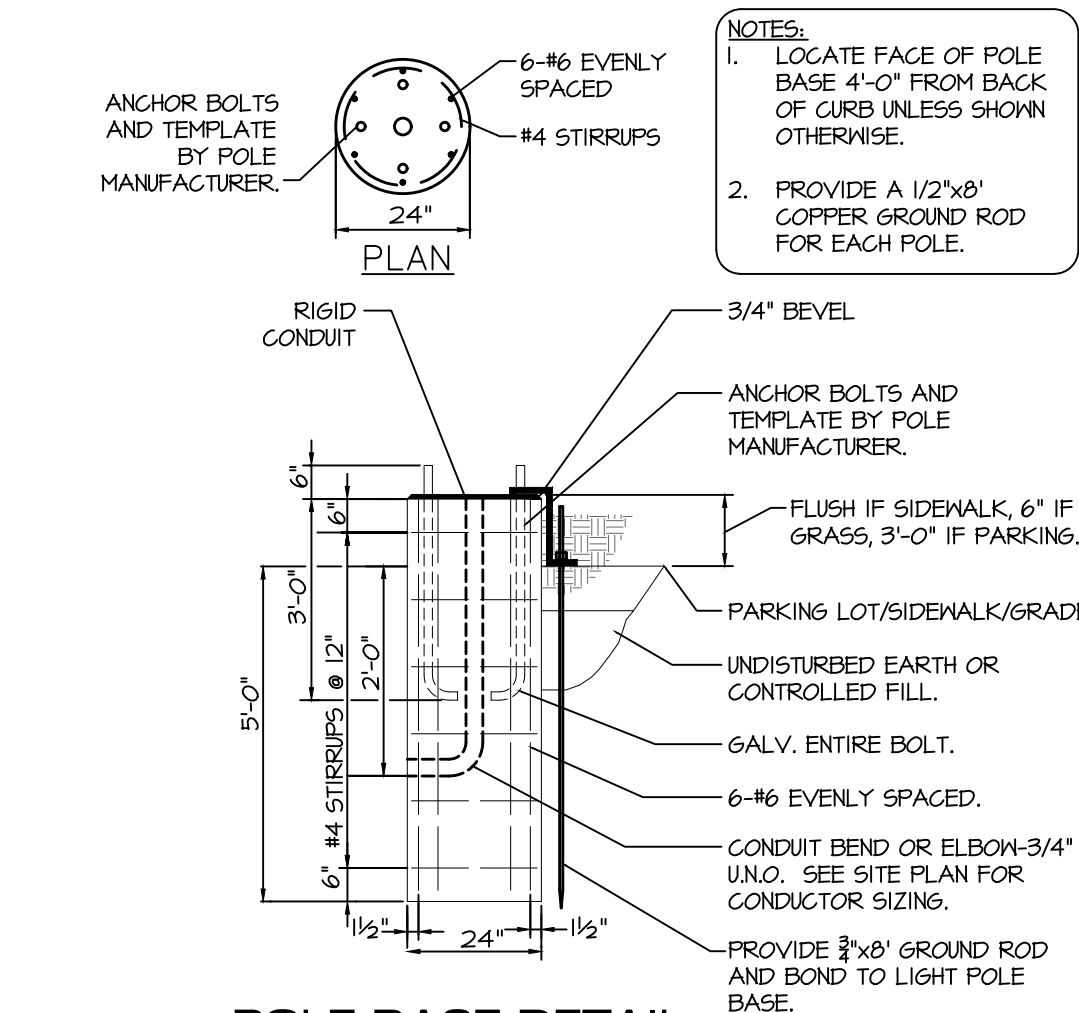
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LIGHT FIXTURE SCHEDULE									
MARK	MANUFACTURER	MODEL	LAMP DATA			MOUNTING	TOTAL WATTS	DESCRIPTION	NOTES
			QUAN.	TYPE	VOLTS				
SA	WILLIAMS	VAI-L83/T40-T3-S-DIM-208-PCR	1	LED	208	POLE	83	EXTERIOR FIXTURE WITH TYPE 3 DISTRIBUTION	1,2,3
SA2	WILLIAMS	VAI-L83/T40-T4-S-DIM-208-PCR	2	LED	208	POLE	166	EXTERIOR FIXTURE WITH TYPE 4 DISTRIBUTION	1,2,3
<b>NOTES:</b> 1. FURNISH 22' TALL LIGHT POLE AND BASE COVER, WILLIAMS-SSA-200-0400-188 / A356-T6, COLOR AS SPECIFIED BY ARCHITECT. 2. COLOR SPECIFIED BY ARCHITECT. 3. PROVIDE FIXTURE WITH INTEGRAL PHOTOCELL.									
<b>GENERAL NOTES:</b> A. PROVIDE ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION.									



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H&B PROJECT NUMBER : 1920580  
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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



MPE SITE PLAN

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OCTOBER 18, 2019

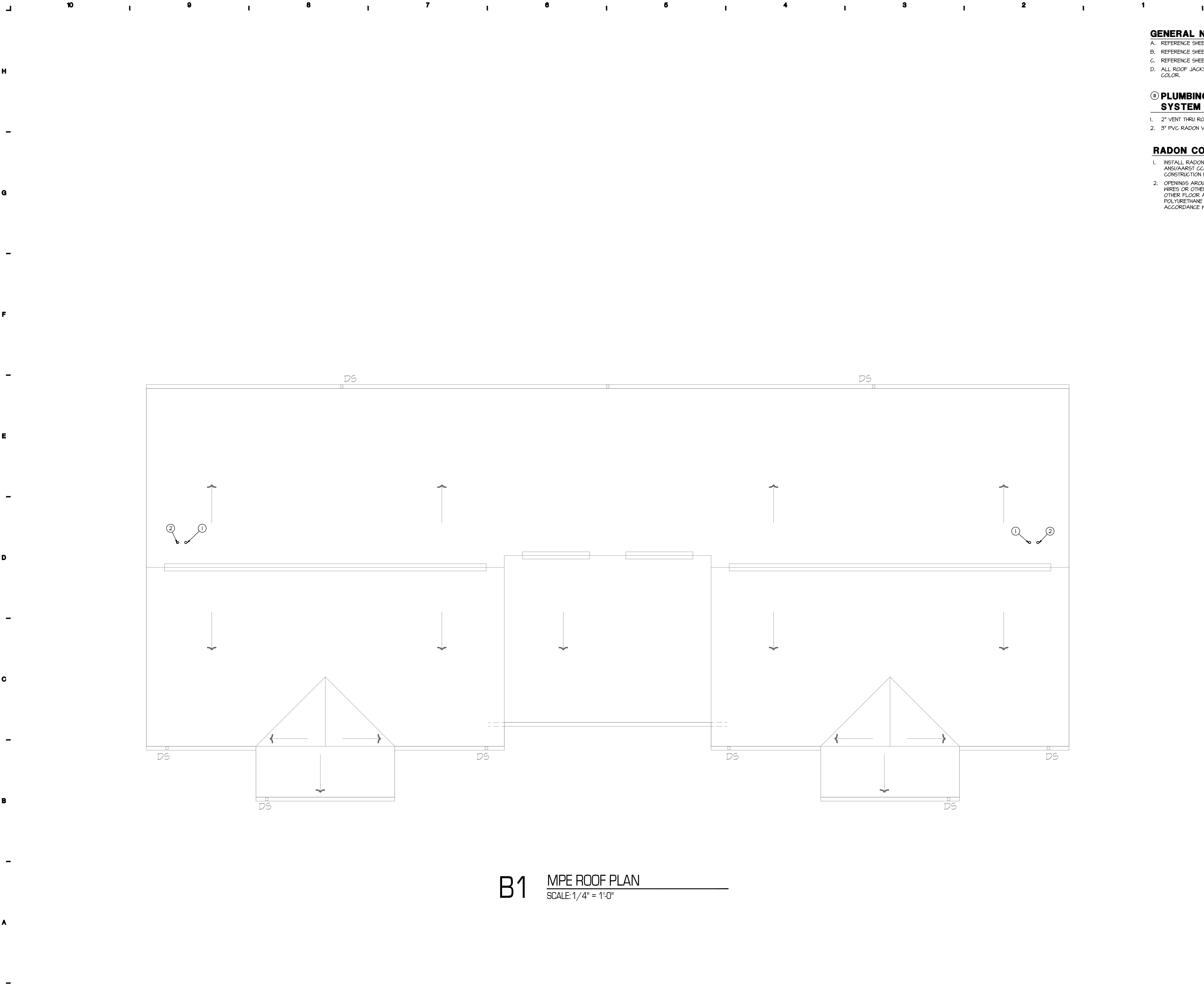
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B1 MPE ROOF PLAN  
SCALE: 1/4" = 1'-0"

**GENERAL NOTES:**

- A. REFERENCE SHEET M11 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.

**PLUMBING AND RADON CONTROL SYSTEM PLAN NOTES:**

- 1. 2" VENT THRU ROOF.
- 2. 3" P.V.G. RADON VENT.

**RADON CONTROL SYSTEM NOTES:**

- 1. INSTALL RADON CONTROL SYSTEM IN ACCORDANCE WITH ANSI/AARST CC-1000-2017 "SOIL GAS CONTROLS 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 CAULK OR EQUIVALENT SEALANT APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.



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DUPLEX MPE ROOF  
PLAN

ISSUE DATE:  
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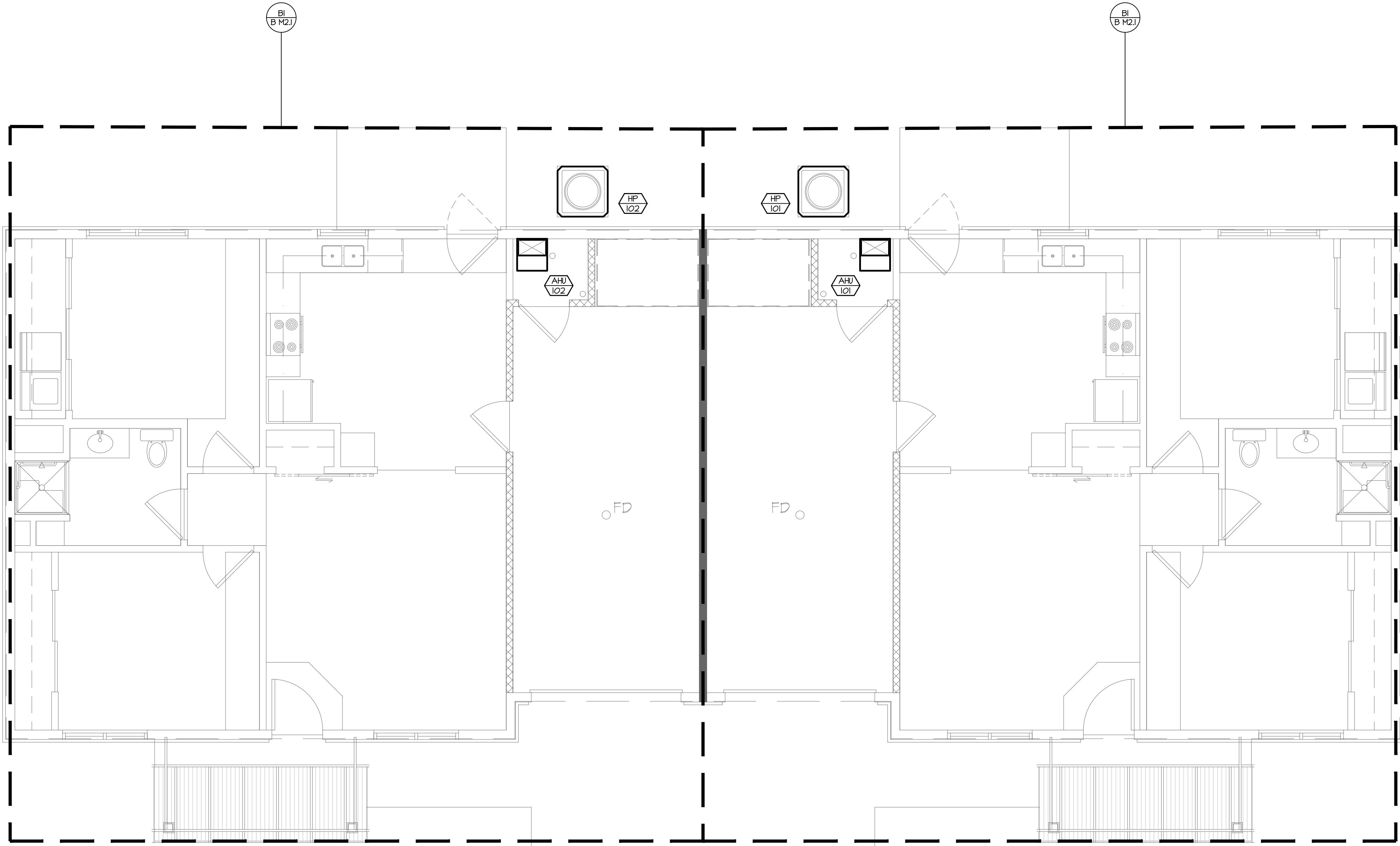
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B1 DUPLEX MECHANICAL PLAN  
SCALE: 1/4" = 1'-0"

- 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 CODE REQUIRED WORKING CLEARANCE 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 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.



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DUPLEX  
MECHANICAL PLAN

ISSUE DATE:  
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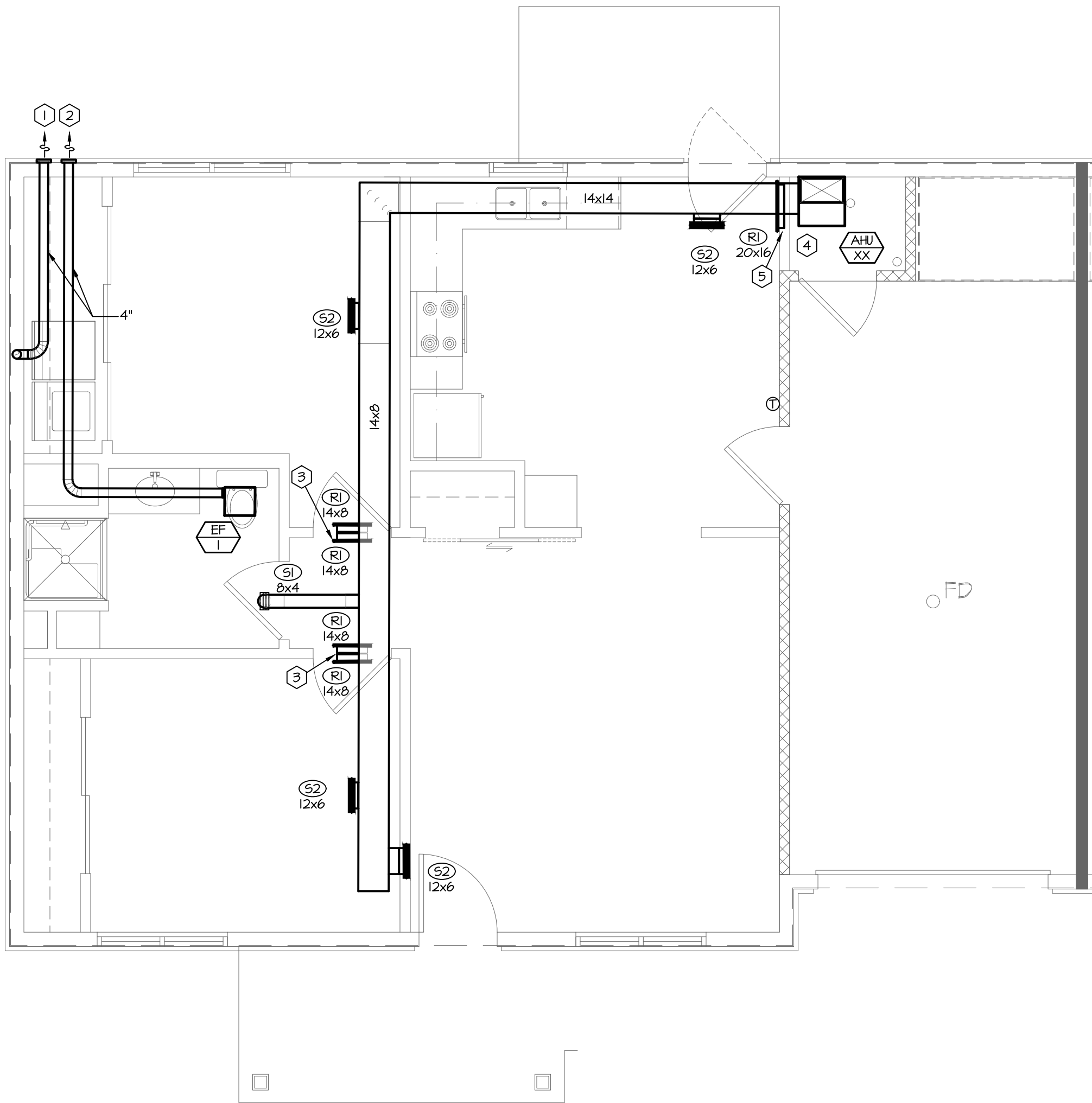
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B1 ENLARGED MECHANICAL PLAN  
SCALE: 1/4" = 1'-0"

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 CODE REQUIRED WORKING CLEARANCE 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 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.
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- 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 VENT EXHAUST. DISCHARGE DRYER EXHAUST WITH WALL. TERMINATION SHALL BE EQUIPPED WITH BACKDRAFT DAMPER. MAINTAIN 3 FOOT CLEARANCE ABOVE OPERABLE WINDOWS.
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 HIGH ON WALL IN LIVING SPACE AND ABOVE DOOR IN BEDROOM.
4. SEE AIR HANDLING UNIT DETAIL ON SHEET B M4.J
5. INSTALL RETURN GRILLE LOW ON WALL IN LIVING SPACE.

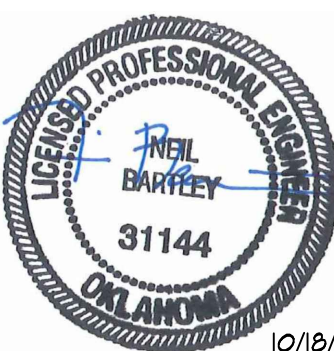
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ENLARGED DUPLEX  
MECHANICAL PLAN

ISSUE DATE:  
OCTOBER 18, 2019  
REVISIONS:

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AIR HANDLING UNIT AND HEAT PUMP SCHEDULE

AIR HANDLING UNIT												HEAT PUMP						
MARK	MANUFACTURER	MODEL	COOL MBH	COOLING FAN CFM	ESP	HEATING COIL MODEL	KW		MCA	MOCF	V/PH	MARK	MODEL	SEER	MCA	MOCF	V/PH	NOTES
AHU-101	GOODMAN	MBR1200	32.0	1200	0.50	HKR-15	15.0	13.0	52	60	208/1	HP-101	66Z14-030	14.0	11.8	30	208/1	1,2,3,4
AHU-102	GOODMAN	MBR1200	32.0	1200	0.50	HKR-15	15.0	13.0	52	60	208/1	HP-102	66Z14-030	14.0	11.8	30	208/1	1,2,3,4

**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.

GRILLE, REGISTER, & DIFFUSER SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	FACE SIZE	NECK SIZE	DAMPER	NOTES
SI	US AIRE	102M	SUPPLY	"SEE PLAN"	"SEE PLAN"	YES	
S2	US AIRE	VM	SUPPLY	"SEE PLAN"	-	YES	
RI	US AIRE	1400	RETURN	"SEE PLAN"	-	NO	

**NOTES:**

**GENERAL NOTES (APPLY TO ALL ABOVE):**

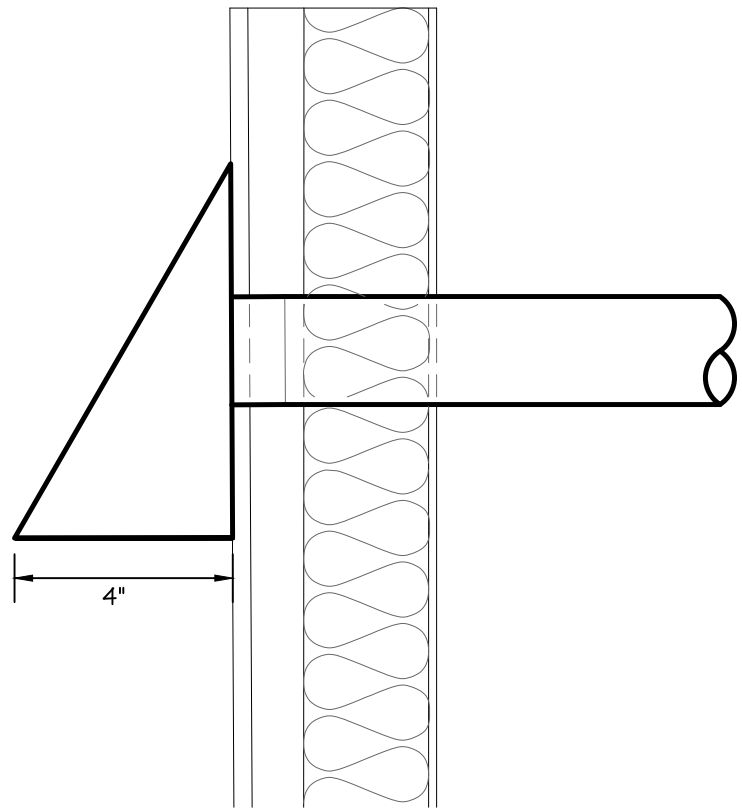
- PROVIDE MOUNTING FRAME TO MATCH CEILING TYPE. VERIFY WITH ARCHITECT'S PLANS PRIOR TO ORDERING.
- MAXIMUM NG OF 30 FOR ALL GRILLES, REGISTERS, AND DIFFUSERS.
- WHERE NOT NOTED, DIFFUSER NECK SIZE SHALL BE THE SAME AS THE BRANCH DUCT SIZE.
- UNLESS NOTED OTHERWISE, COLOR SHALL BE STANDARD WHITE.

FAN SCHEDULE

MARK	MANUFACTURER	MODEL	CFM	S.P.	DRIVE	BHP	HP	RPM	dBA	V/PH	NOTES
EF-1	BROAN	AE80L	50	0.25	DIRECT	26.1 W	--	-	28	120/1	1

**NOTES:**

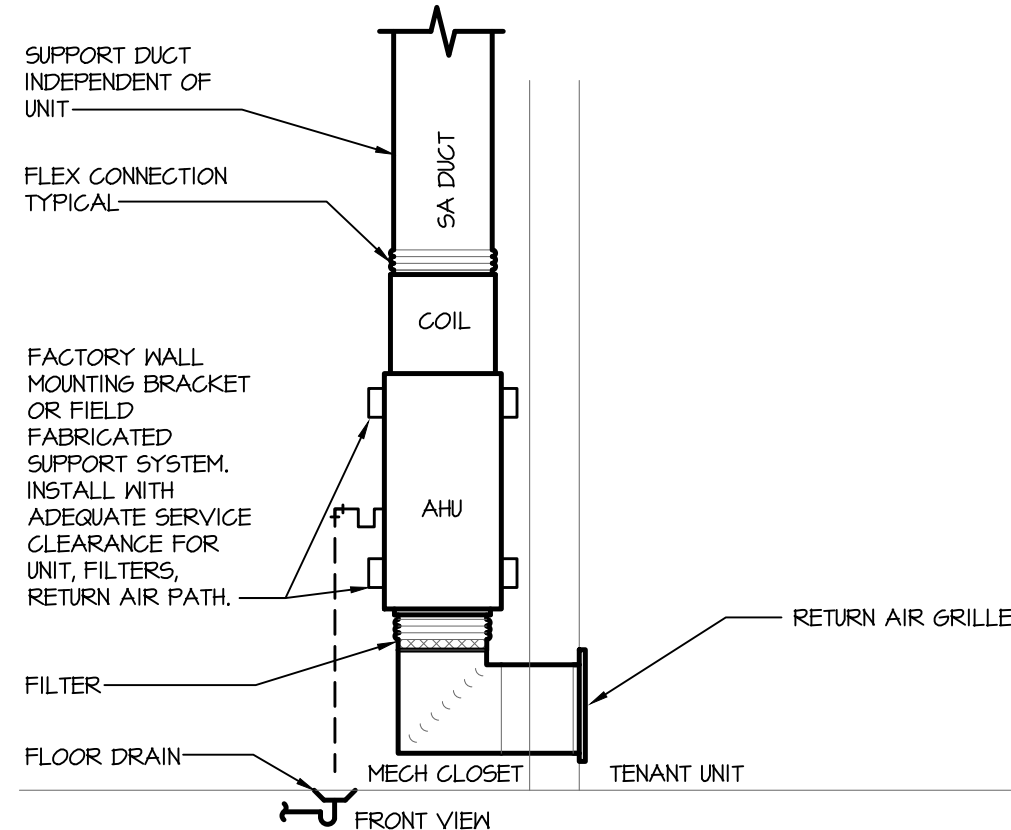
- PROVIDE WITH FACTORY INSTALLED AND WIRED DISCONNECT.



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

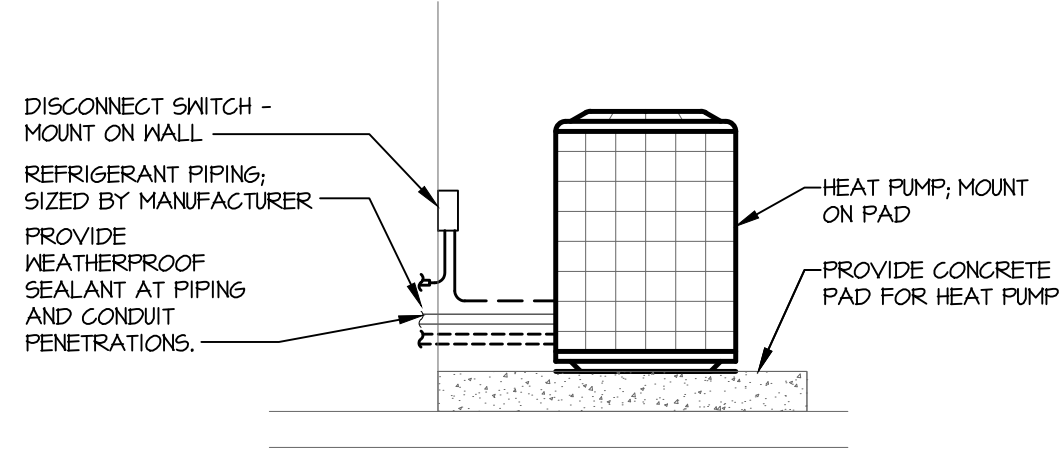
Exterior Wall Bathroom Exhaust & Dryer Exhaust Detail

Scale: Not to Scale



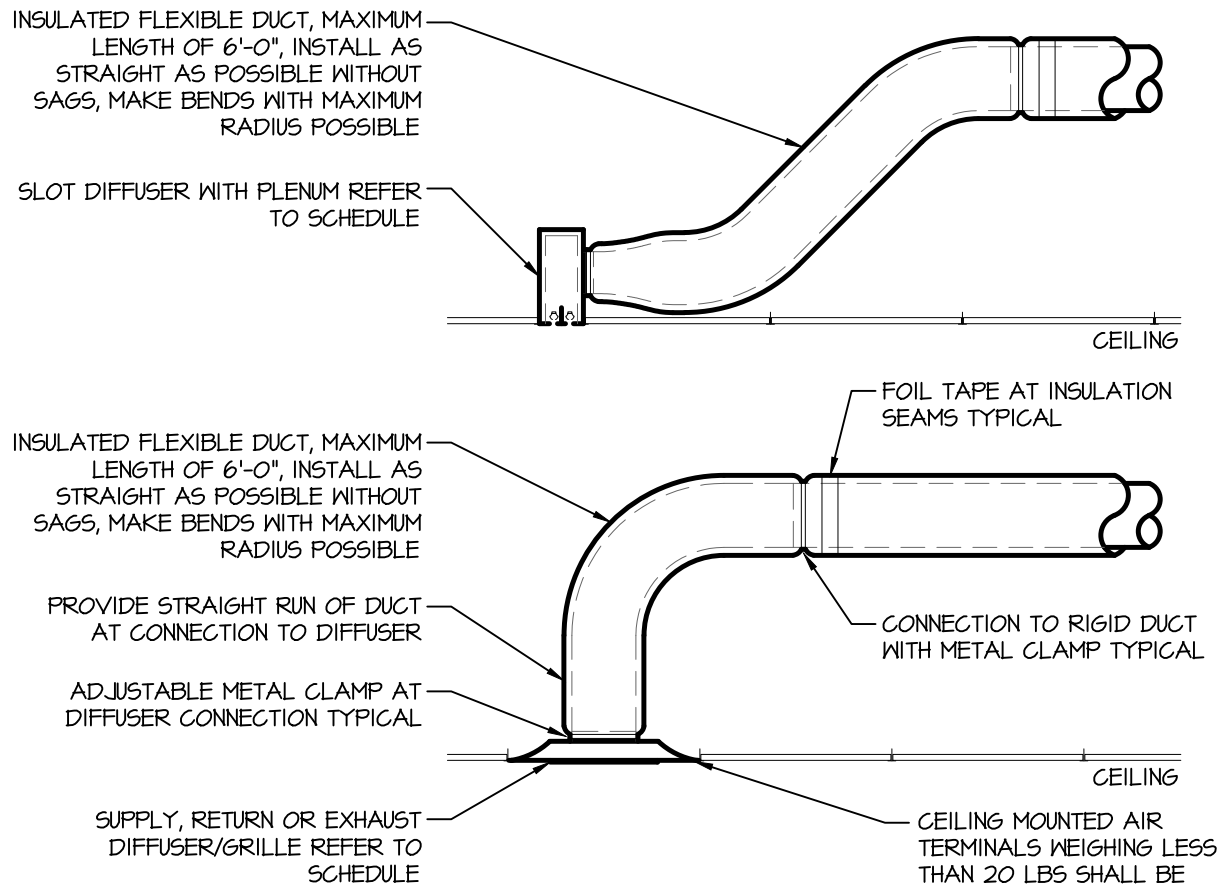
Typical Apartment AHU Detail

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Heat Pump Mounting Detail

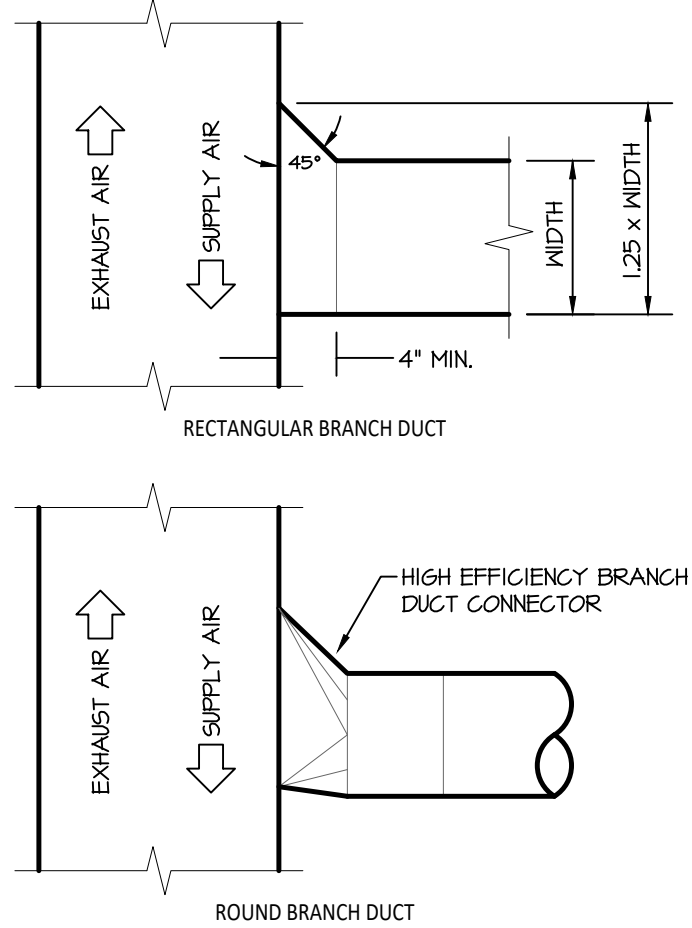
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- NOTES:**
- DUCT AND DIFFUSER SIZES SHALL BE AS INDICATED ON THE PLANS.
  - SUPPORT DUCTWORK PER SPECIFICATIONS.
  - COORDINATE CEILING TYPES WITH ARCHITECTURAL PLANS.

Diffuser Connection Detail

Scale: Not to Scale



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

Branch Duct Detail

Scale: Not to Scale



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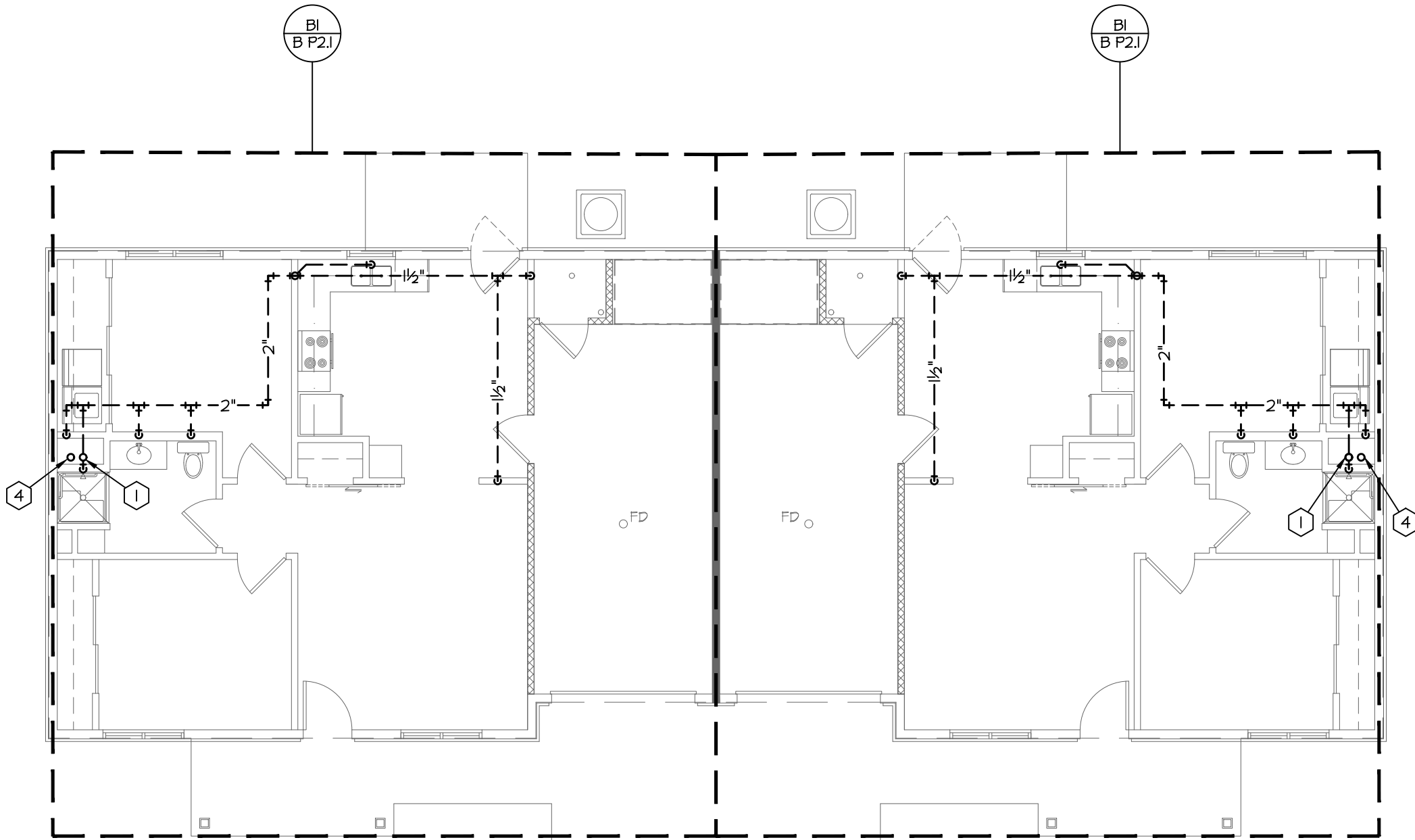
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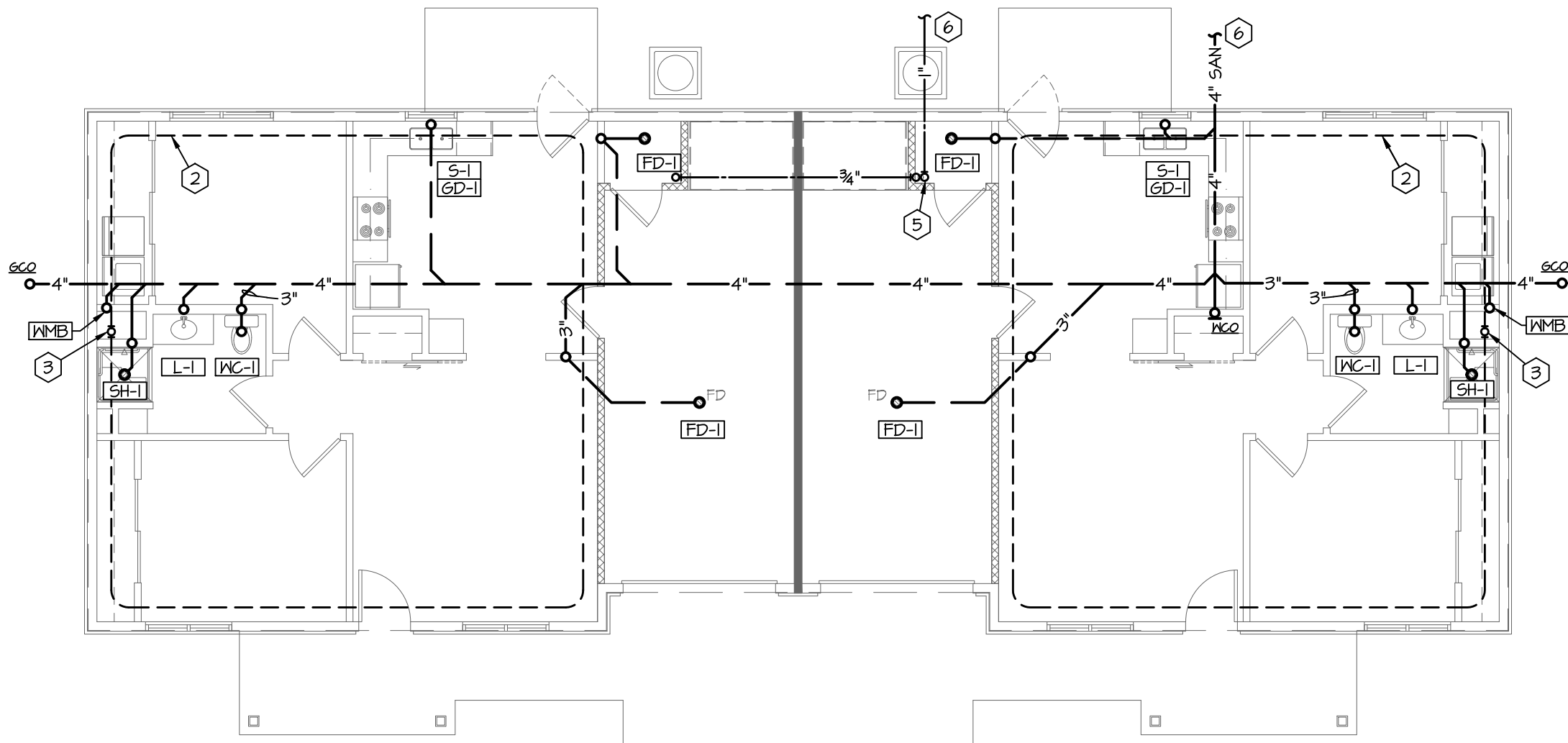
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**B2** DUPLEX ABOVE GRADE PLUMBING PLAN  
SCALE: 1/8" = 1'-0"



**B1** DUPLEX BELOW GRADE PLUMBING PLAN  
SCALE: 1/8" = 1'-0"

**GENERAL NOTES:**

- THESE DRAWINGS ARE DIAGRAMMATIC 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.
- REFER TO THE ARCHITECTURAL PLANS FOR THE EXACT LOCATIONS OF PLUMBING FIXTURES.
- COORDINATE THE INSTALLATION OF PLUMBING AND PIPING WITH THE WORK OF ALL OTHER TRADES.
- 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.
- PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT OR PANELS. PROVIDE THE CODE REQUIRED WORKING CLEARANCE AROUND ALL ELECTRICAL EQUIPMENT AND PANELS.
- THE CONTRACTOR SHALL NOT LOCATE PIPING BELOW DUCT MOUNTED AIR TERMINAL UNITS, TERMINAL HEATING COILS, OR OTHER EQUIPMENT.
- PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL PLUMBING SYSTEMS.
- COORDINATE THE SHUT DOWN OF ANY EXISTING SERVICES AND/OR EQUIPMENT WITH THE OWNER'S REPRESENTATIVE.
- 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.
- PROVIDE THE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.
- MINIMUM UNDERGROUND PIPE SIZE SHALL BE 2".
- \*\*\*FOR JOHNSON COUNTY PROJECTS ONLY\*\*\* ALL EXTERIOR SANITARY SEWER PLUMBING FROM THE BUILDING FOUNDATION TO THE CONNECTION POINT SHALL MEET JOHNSON COUNTY WASTEWATER (JCW) STANDARDS AND REQUIREMENTS AND ALSO, SHALL BE INSPECTED BY A JCW INSPECTOR.

**PLAN NOTES:**

- 2" VENT THRU ROOF.
- 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.
- 3" PVC PIPE UP FOR PASSIVE RADON CONTROL SYSTEM.
- 3" PVC RISER UP THRU ROOF FOR PASSIVE RADON SUPPRESSION SYSTEM.
- 1/4" DOMESTIC COLD WATER LINE UP. PROVIDE 3/4" TEE FOR LINE SERVING UNIT. 3/4" COLD WATER LINE DOWN TO BELOW GRADE TO SERVE UNIT DOWNSTREAM.
- REFER TO MPE SITE PLAN FOR CONTINUATION.

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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



DUPLEX PLUMBING  
PLAN

ISSUE DATE:  
OCTOBER 18, 2019  
REVISIONS:

**H&B**  
HOSS & BROWN  
ENGINEERS  
11205 West 79th Street  
Lenexa, Kansas 66214  
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H&B PROJECT NUMBER - 1920580  
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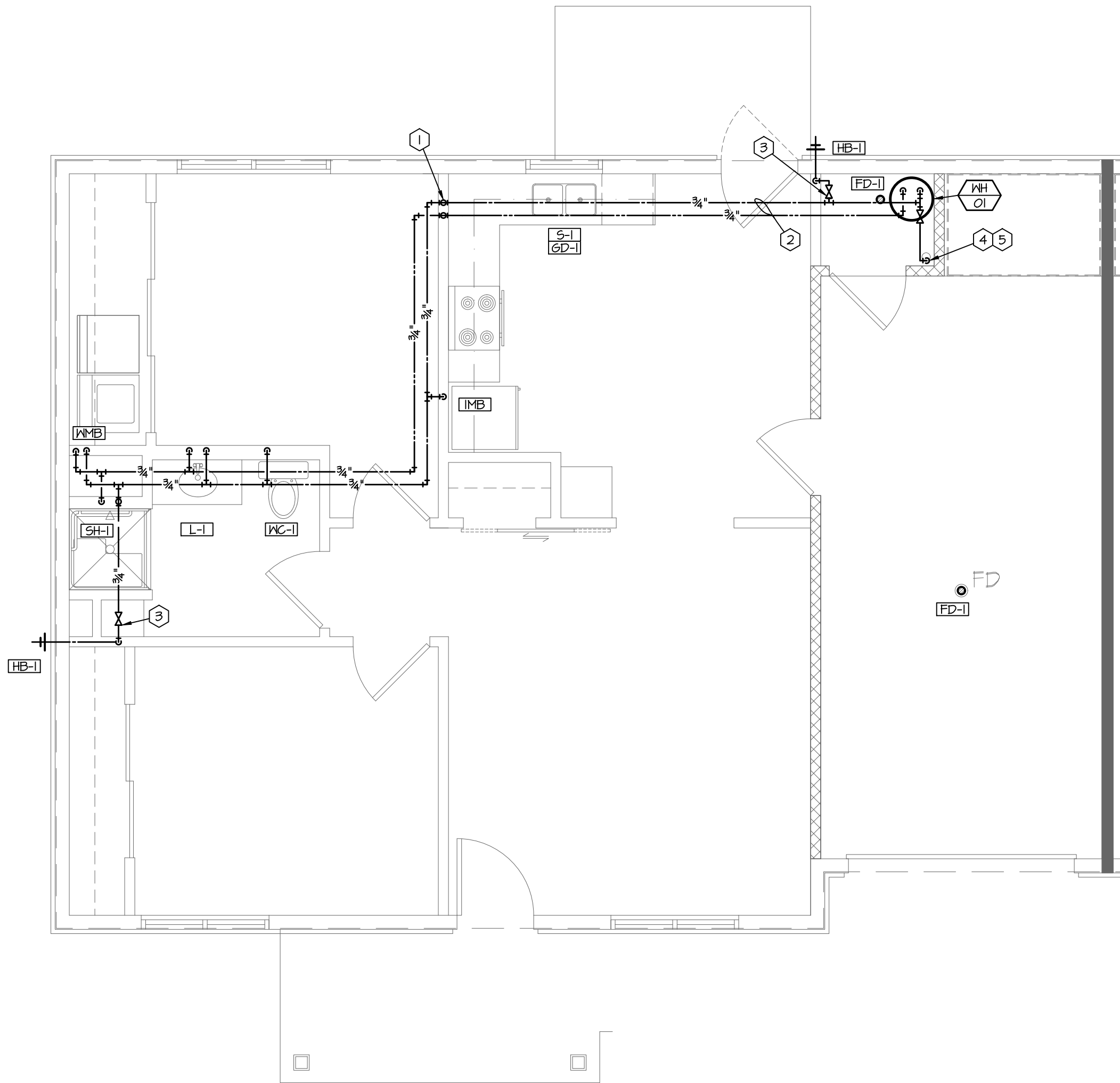
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B1 ENLARGED ABOVE GRADE PLAN  
SCALE: 1/4" = 1'-0"

- GENERAL NOTES:**
- A. THESE DRAWINGS ARE DIAGRAMMATIC 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.
  - K. MINIMUM UNDERGROUND PIPE SIZE SHALL BE 2".

- PLAN NOTES:**
- 1. PIPING DOWN IN WALL. ROUTE PIPING OVER IN CABINET.
  - 2. ROUTE PIPING IN SOFFIT BELOW DUCTWORK, TYPICAL.
  - 3. 3/4" COLD WATER TO HOSE BIBB, PROVIDE ACCESSIBLE SHUTOFF VALVE OR ACCESS PANEL.
  - 4. REFERENCE OVERALL PLUMBING PLAN ON SHEET B P2.1 FOR CONTINUATION.
  - 5. INSTALL 1" VERTICAL BACKFLOW PREVENTER MEETING WATER DEPARTMENT REQUIREMENTS IN ACCESSIBLE LOCATION.



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ENLARGED DUPLEX  
PLUMBING PLAN

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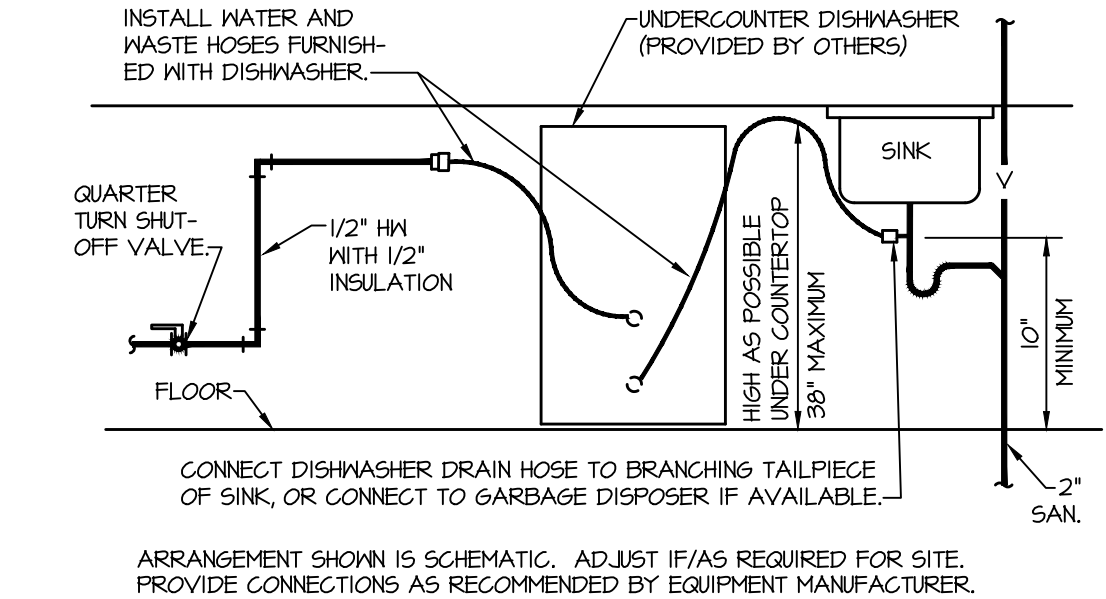
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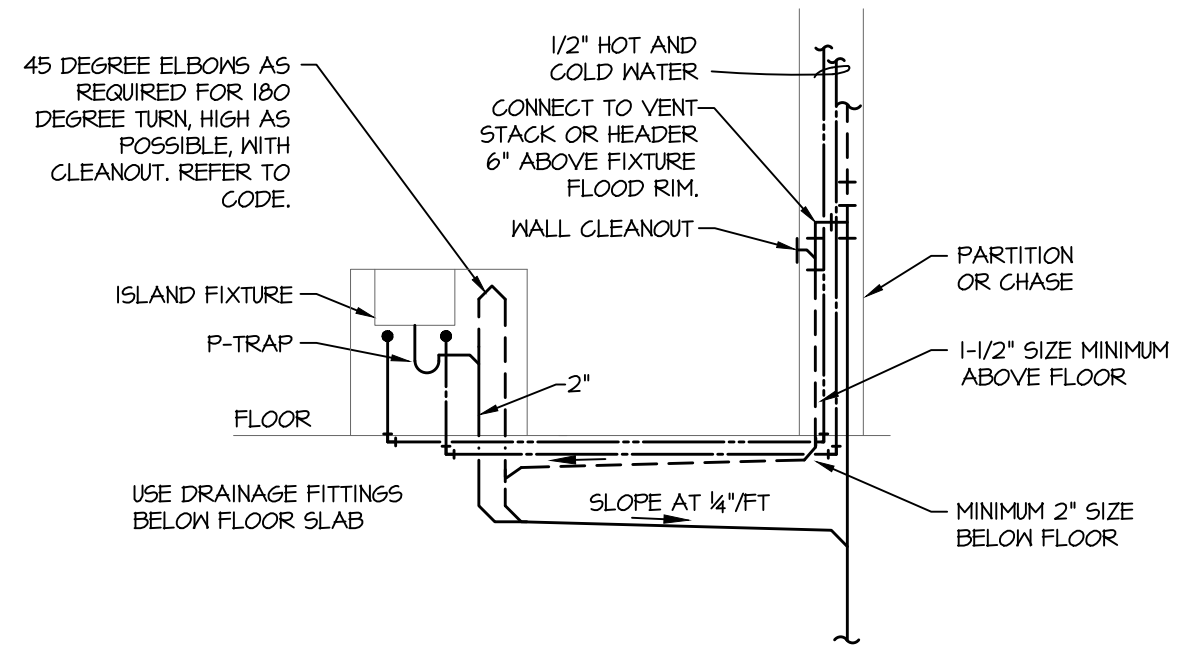
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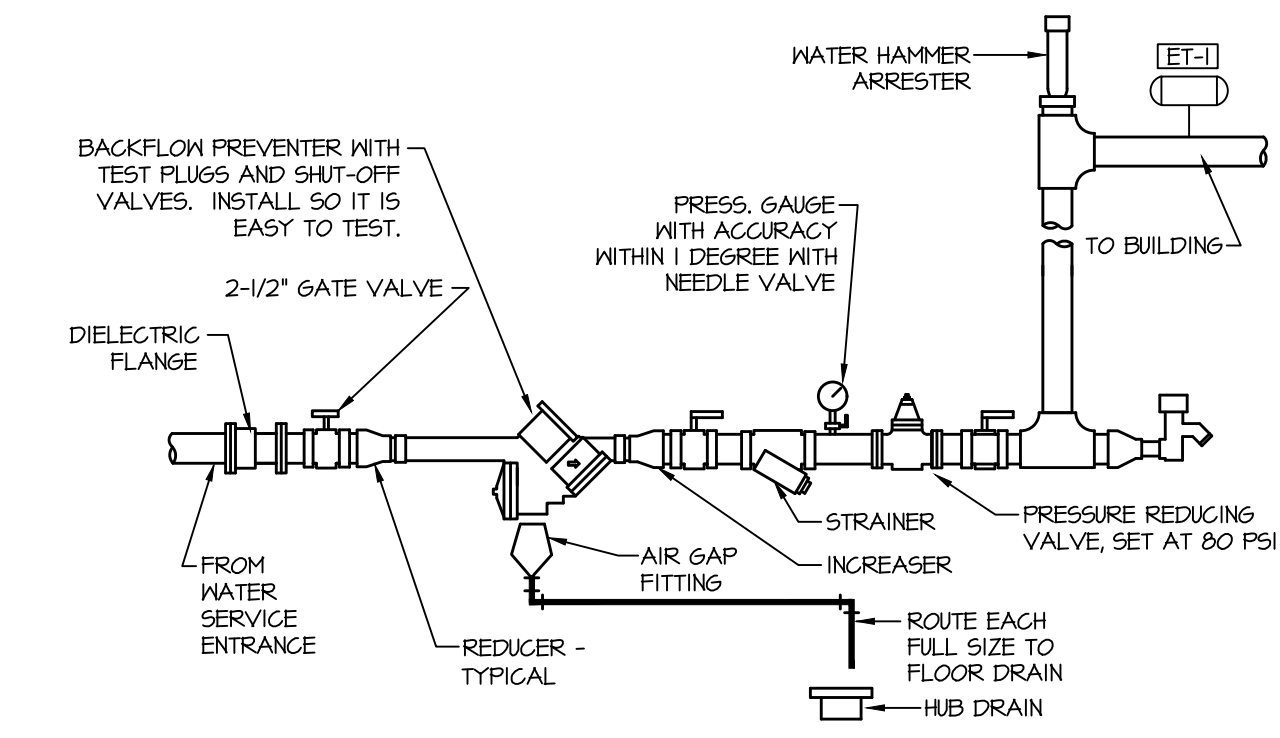




4 Dishwasher Connection Detail  
Scale: Not to Scale

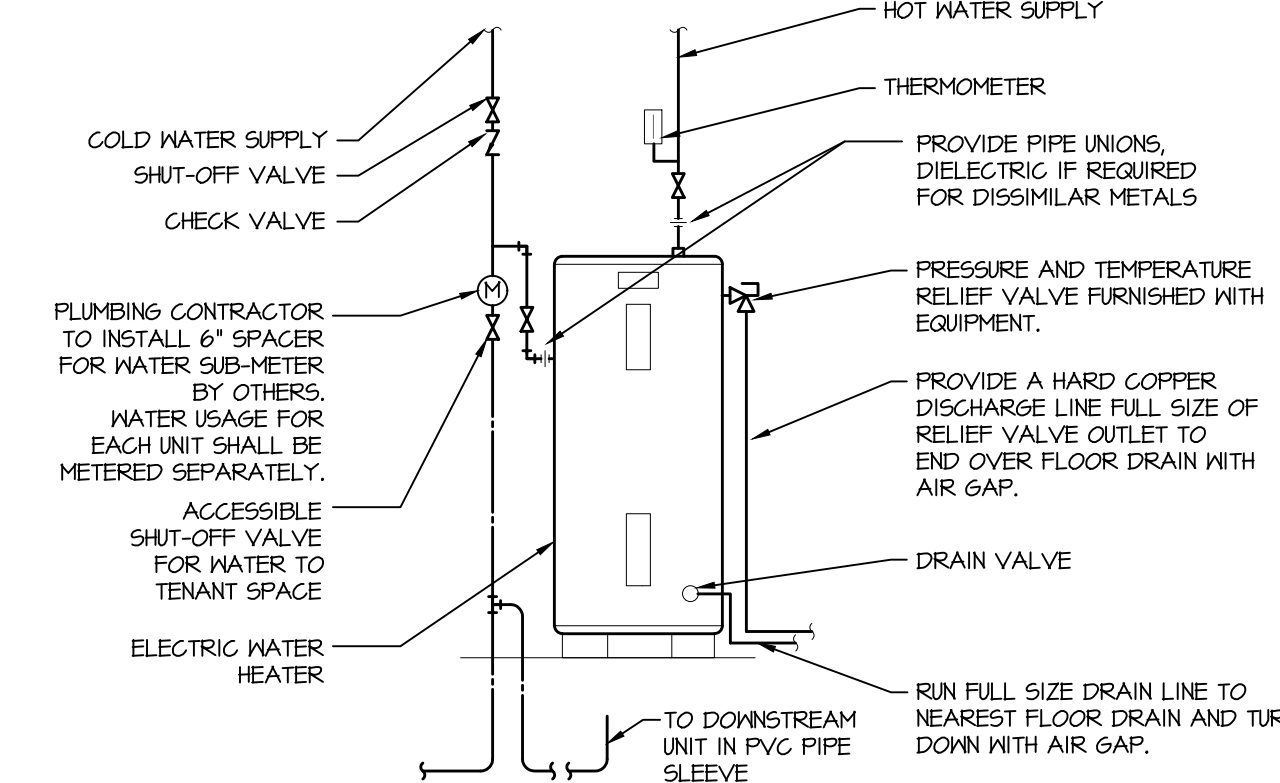


3 Island Fixture Vent  
Scale: Not to Scale



PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER OF TYPE AND MANUFACTURER AS APPROVED BY LOCAL AUTHORITIES. STRAINER AND REDUCING VALVES MAY BE INSTALLED IN VERTICAL PIPE IF SPACE LIMITATIONS REQUIRE. CLEAN STRAINER BEFORE TURNING BUILDING OVER TO OWNER. PROVIDE ANY REQUIRED CERTIFICATION TEST OF BFP TO LOCAL AUTHORITIES. ALL ITEMS SHALL BE APPROVED FOR DOMESTIC WATER SERVICE. ARRANGEMENT SHOWN IS SCHEMATIC. MODIFY TO SUIT CONDITIONS. INSTALL BFP SO IT CAN BE EASILY SERVICED AND TESTED. SUPPORT ASSEMBLY FROM WALL BRACKET OR FLOOR STAND.

2 Domestic Water Service  
Scale: Not to Scale



NOTES:  
1. PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. REFER TO FLOOR PLANS FOR PIPE SIZES. SET HEATER THERMOSTAT AT 120F. PROVIDE CLEARANCES RECOMMENDED BY MANUFACTURER.

1 Electric Water Heater  
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"	
L-1	DROP-IN LAVATORY	KOHLER	K-233T-1	BISCUIT COLOR FAUCET: F-2	--	--	1-1/4"	1-1/2"	1, 2
S-1	KITCHEN SINK 18 GAUGE DROP-IN	DAYTON	DSESR12122	STAINLESS STEEL FAUCET: F-1	--	--	2"	1-1/2"	2
SH-1	36" SHOWER UNIT WITH SURROUND	BEST BATH	4L554038A5B	WHITE SELCOAT FLAT PANEL GRAB BARS, 24" SLIDE SHOWER VALVE: SV-1	--	--	1-1/2"	2"	
F-1	ADA SINGLE HANDLE HIGH ARC PULL DOWN KITCHEN FAUCET	KRAUS	KPF-2620	1.0 GPM AERATOR, SINGLE HOLE PULLDOWN SPRAY, CHROME FINISH CUP STRAINER DRAIN	1/2"	1/2"	--	--	2, 8
F-2	SINGLE HANDLE LAVATORY FAUCET	DELTA	554-LF-PP	1.0 GPM AERATOR SINGLE HOLE POLISHED CHROME	1/2"	1/2"	--	--	2, 8
SV-1	SINGLE LEVER PRESSURE BALANCE SHOWER FAUCET	DELTA	T13H153	1.75 GPM CHROME FINISH SHOWER VALVE	1/2"	1/2"	--	--	1
HB-1	NON-FREEZE WALL HYDRANT	WOODFORD	MODEL 65	VACUUM BREAKER LOOSE CONTROL KEY WALL CLAMP-WITH HYDRANT BOX	1/2"	--	--	--	6
FD-1	1" ROUND FLOOR DRAIN	WADE	11005TD Z-415 2005	NICKEL BRONZE STRAINER DEEP SEAL TRAP	--	--	--	--	4, 9
FD-2	5" ROUND SHOWER DRAIN	WADE	11005TD Z-415 2005	NICKEL BRONZE STRAINER DEEP SEAL TRAP	--	--	--	--	
ET-1	EXPANSION TANK	AMTROL	THERM-X-TROL ST-5	DOMESTIC WATER SERVICE	--	3/4"	--	--	
GD-1	GARBAGE DISPOSAL	INSINKERATOR	BADGER 5	1/3HP, 120V	--	--	--	--	
WMB	WASHING MACHINE CONNECTION BOX	GUY GRAY	W2100	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
<b>NOTES:</b> 1. PROVIDE TAILPIECE DRAIN CONNECTION ON LAVATORIES OR SINKS WHERE NEEDED FOR HVAC CONDENSATE DRAINS. 2. FAUCET HOLES TO MATCH FAUCET SPECIFIED. 3. WHERE BOX IS TO BE INSTALLED IN FIRE RATED WALL, CONTRACTOR SHALL SUPPLY FIRE RATED BOXES. 4. PIPE SIZE AS SHOWN ON DRAWING. 5. PROVIDE WASHING MACHINE DRAIN PAN UNDERNEATH WASHING MACHINE AT ALL WASHING MACHINE BOX LOCATIONS. 6. PROVIDE OPERATING ROD ASSEMBLY PER MANUFACTURER'S RECOMMENDATIONS BASED ON WALL THICKNESS. 7. PIPE FOR SHOWER HEAD SHALL BE LOCATED AT 6'-8" A.F.F., ABOVE SURROUND 8. FIXTURE ASSEMBLY MUST BE APPROVED BY AND INSTALLED PER ADA. 9. PROVIDE SURESEAL 55X000V INLINE FLOOR DRAIN TRAP SEAL WITH ASSE 1072 RATING. <b>GENERAL NOTES:</b> A. PROVIDE INSULATION KIT ON ALL ADA FIXTURES WITH EXPOSED TRAP AND SUPPLIES. B. 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	BRADFORD WHITE	LE24053-3	40	4.5	-	21.0	208/1	RESIDENCE
<b>GENERAL NOTES (APPLIES TO ALL ABOVE):</b> A. PROVIDE ASME PRESSURE AND TEMPERATURE RELIEF VALVE. B. PROVIDE DIELECTRIC CONNECTIONS AT WATER HEATER. C. ALL WATER HEATERS 200 MBH OR LARGER SHALL HAVE ASME RATINGS. D. RECOVERY BASED ON 90 DEGREE TEMPERATURE RISE.								



DUPLEX PLUMBING  
SCHEDULES AND  
DETAILS

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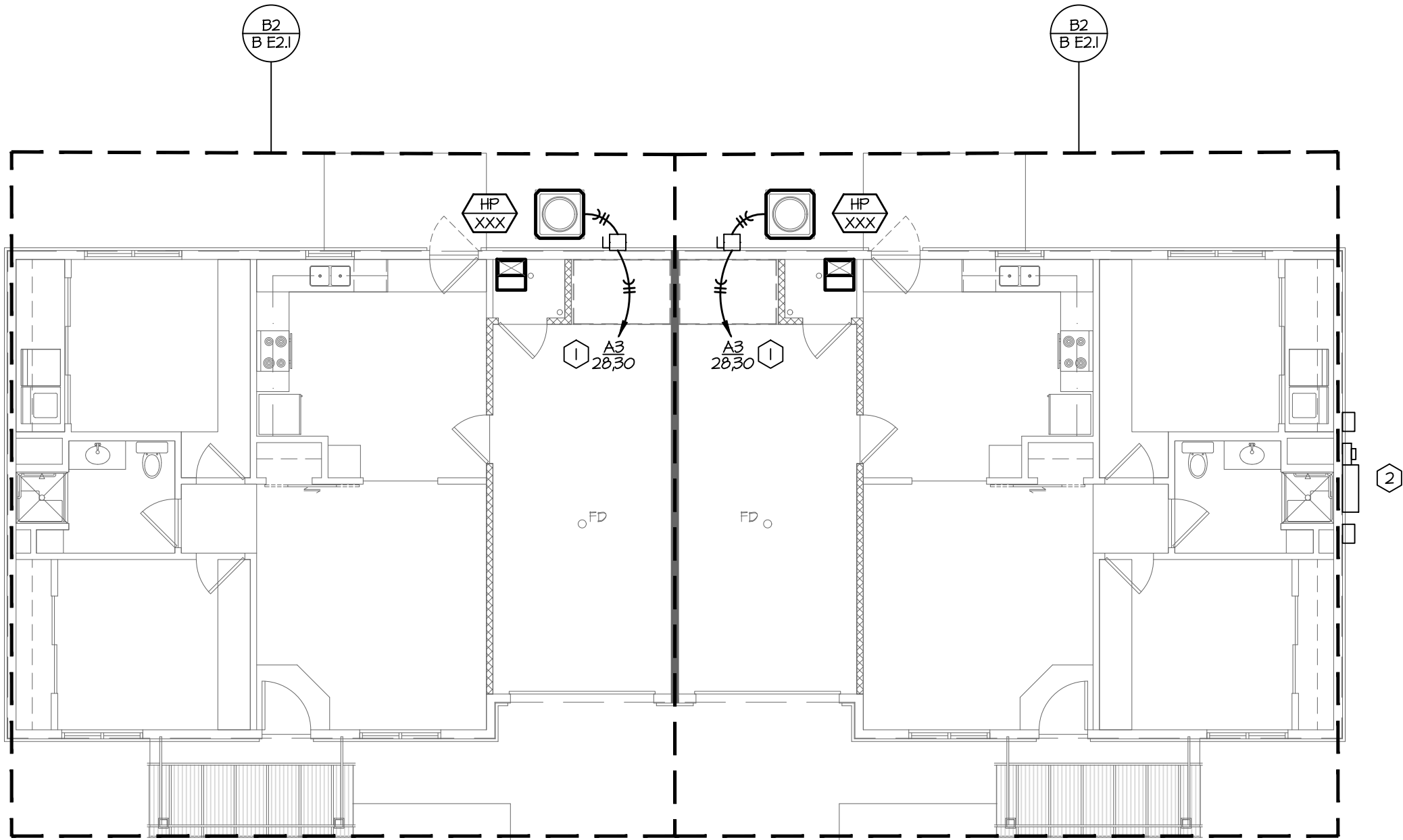
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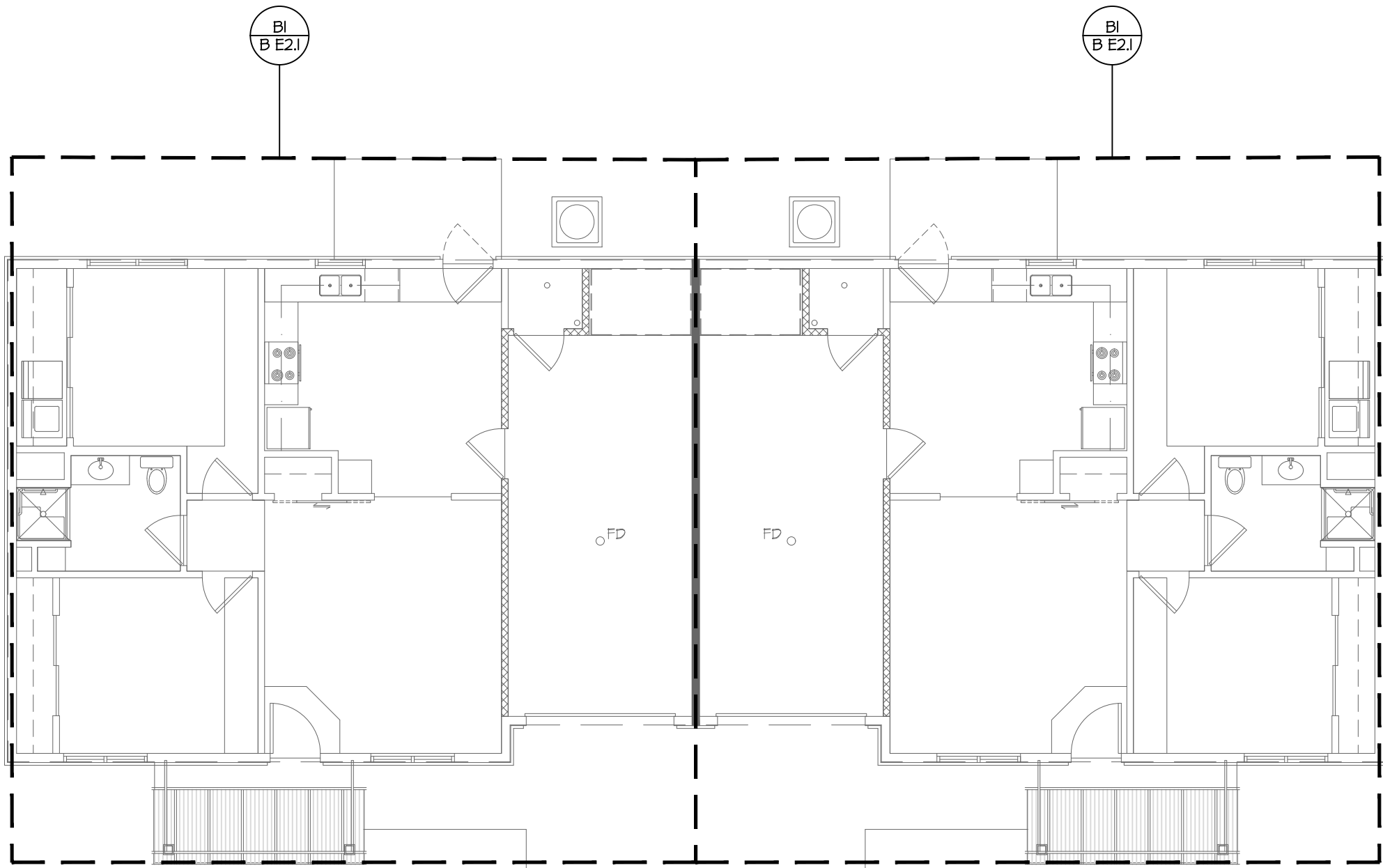
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**B2** DUPLEX POWER & SPECIAL SYSTEMS PLAN  
SCALE: 1/8" = 1'-0"



**B1** DUPLEX LIGHTING PLAN  
SCALE: 1/8" = 1'-0"

**GENERAL NOTES:**

- 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.
- ELECTRICAL CONTRACTOR SHALL DERATE CONDUCTORS AS REQUIRED BY THE N.E.C. WHEN GROUPED IN COMMON RACEWAYS.
- VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH CONTRACTOR PROVIDED SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN THE SUBMITTALS AND ELECTRICAL DRAWINGS.
- 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.
- ALL LOW VOLTAGE WIRES NOT ROUTED IN CONDUIT SHALL BE PROVIDED AS PLENUM RATED CABLES.
- PROVIDE JUNCTION BOXES AND 3/4" CONDUIT WITH PULL-STRINGS UP TO ACCESSIBLE LOCATION IN PLENUM AT ALL VOICE AND DATA OUTLET LOCATIONS.
- 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.
- 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.
- ALL ELECTRICAL BRANCH CIRCUITS SERVING OUTLETS AND BED ROOMS, DINING ROOMS, KITCHENS, LIBRARIES, RECREATION ROOMS, CLOSETS, FAMILY ROOMS, LIVING ROOMS, SUNROOMS, DECKS, HALLWAYS, PARLORS, LAUNDRY AREAS, OR SIMILAR ROOMS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER.
- 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.
- PROVIDE LOCKING CLIPS ON ALL CIRCUIT BREAKERS SERVING TELECOMMUNICATION EQUIPMENT AND FIRE ALARM CONTROL PANELS.
- [FOR POWER PLANS WITH SMOKE DAMPERS] REFERENCE MECHANICAL SHEETS FOR LOCATION OF SMOKE DAMPERS. PROVIDE 20A/120V POWER TO SMOKE DAMPERS AND INTERLOCK WITH FIRE ALARM RELAY(S). CIRCUIT SHALL ONLY SERVE SMOKE DAMPERS.
- [FOR SPECIAL SYSTEM 4 POWER PLANS WITH SMOKE DAMPERS] REFERENCE MECHANICAL PLANS FOR LOCATION OF SMOKE DAMPERS. PROVIDE 20A/120V POWER TO SMOKE DAMPERS FROM CIRCUIT ONLY SERVING SMOKE DAMPERS. PROVIDE AND INTERLOCK FIRE ALARM RELAY(S) TO CLOSE SMOKE DAMPERS UPON SMOKE DETECTION.
- [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.
- COORDINATE THE EXACT LIGHT FIXTURE LOCATIONS WITH THE ARCHITECTURAL DRAWINGS.
- PROVIDE SEPARATE NEUTRALS FOR DIMMING CIRCUITS.

**PLAN NOTES:**

- PROVIDE NEMA 3R 30A/2P DISCONNECT SWITCH. MAKE ELECTRICAL CONNECTION WITH (2)#10's & #10G IN 3/4" C.
- UTILITY METER. REFERENCE SITE PLAN FOR EXACT LOCATION.

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**TIMBER RIDGE COTTAGES**  
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DUPLEX ELECTRICAL  
PLAN

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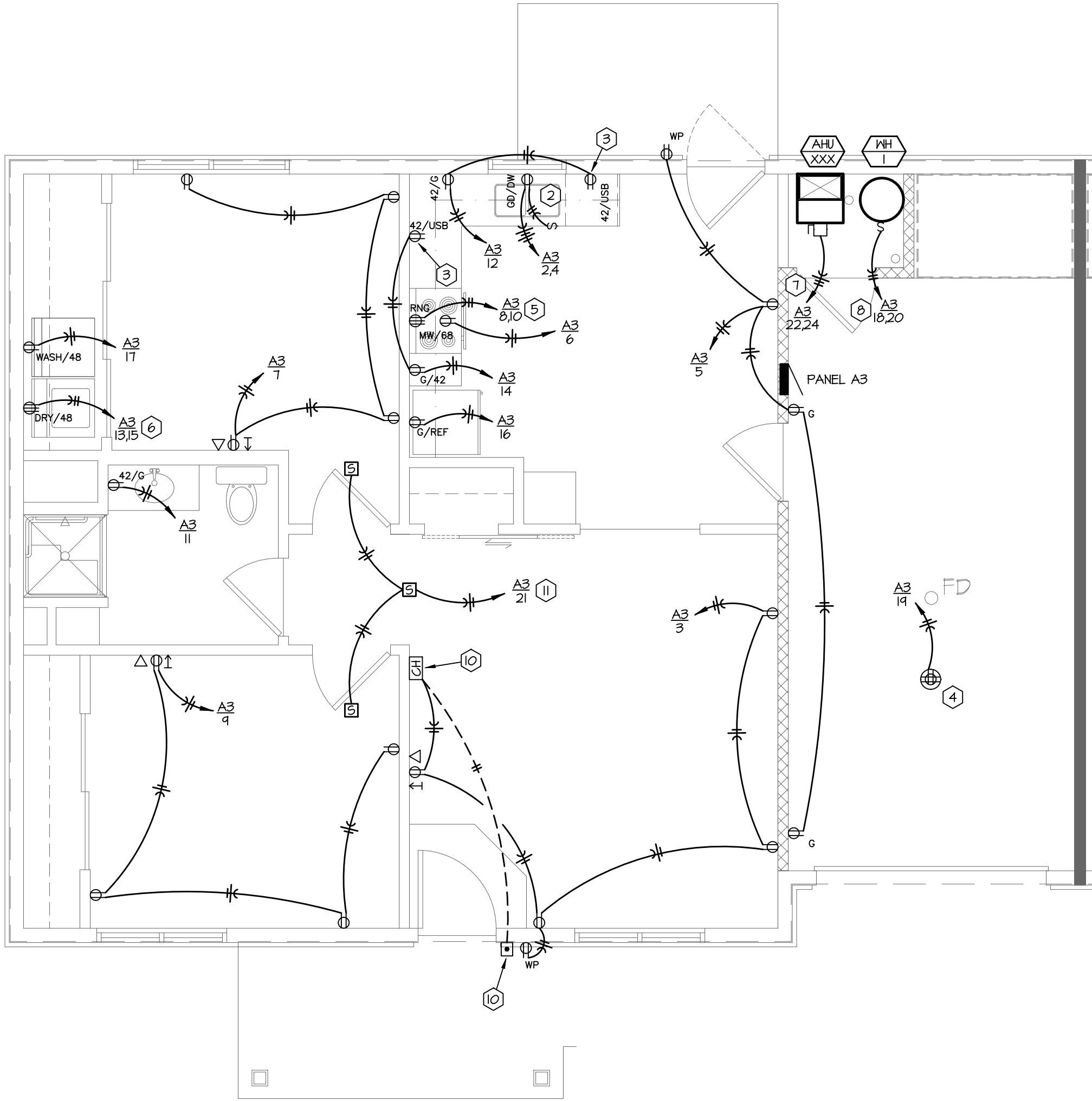
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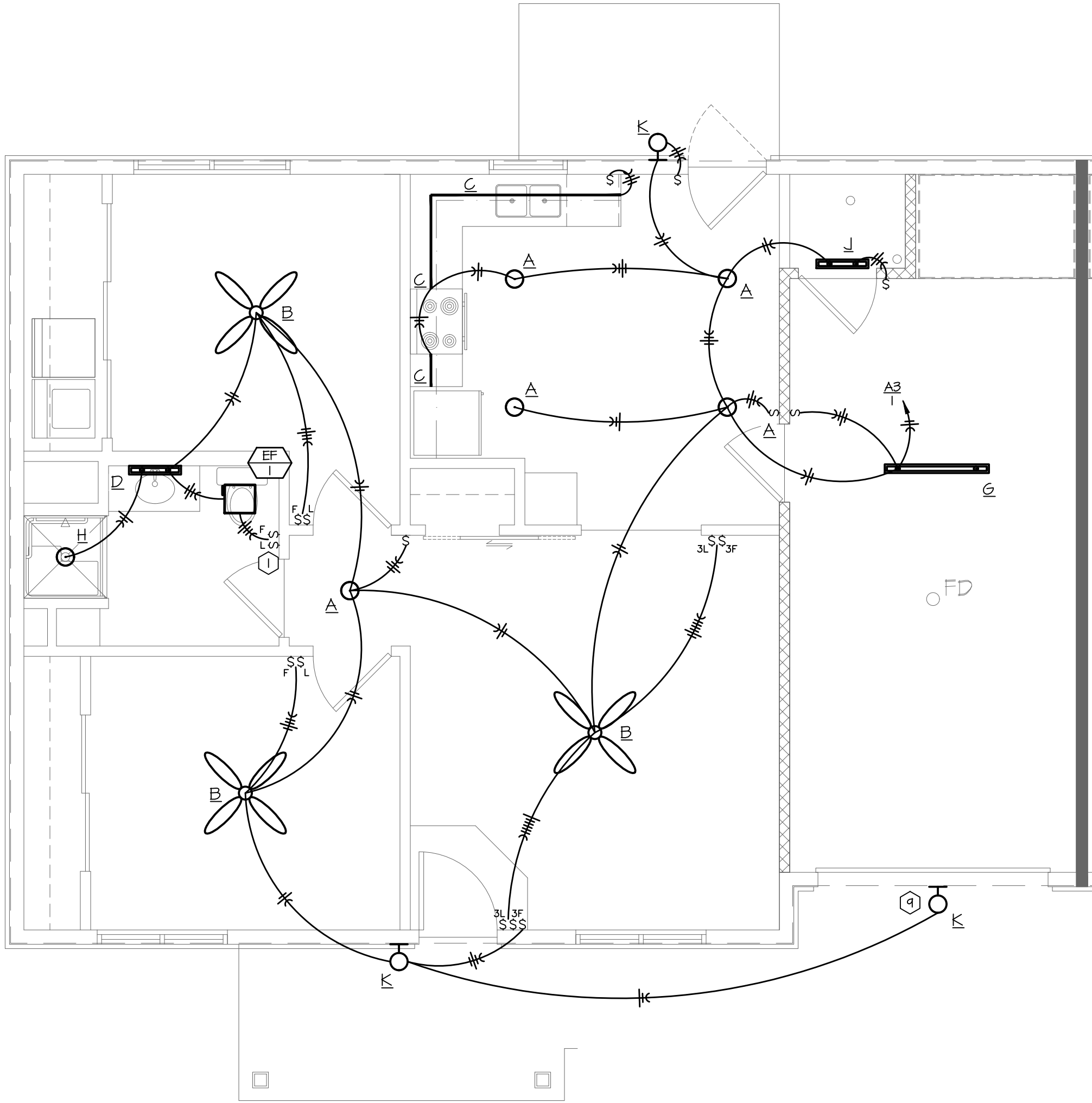
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B2 ENLARGED POWER PLAN  
SCALE: 1/4" = 1'-0"



B1 ENLARGED LIGHTING PLAN  
SCALE: 1/4" = 1'-0"

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- (FOR SPECIAL SYSTEM & POWER PLANS WITH SMOKE DAMPERS) REFERENCE MECHANICAL PLANS FOR LOCATION OF SMOKE DAMPERS. PROVIDE 20A/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.
- (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.
- COORDINATE THE EXACT LIGHT FIXTURE LOCATIONS WITH THE ARCHITECTURAL DRAWINGS.
- PROVIDE SEPARATE NEUTRALS FOR DIMMING CIRCUITS.

PLAN NOTES:

- PROVIDE SWITCH FOR OVERHEAD LIGHT AND A SEPARATE SWITCH FOR EXHAUST FAN.
- 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.
- CIRCUIT USB RECEPTACLE DOWNSTREAM OF GFCI RECEPTACLE.
- PROVIDE CEILING MOUNTED DUPLEX RECEPTACLE FOR GARAGE DOOR OPENER.
- PROVIDE A NEMA 14-50 RECEPTACLE AND HOMERUN WITH (3)#8 & #10 GROUND WIRE IN A 3/4" CONDUIT.
- PROVIDE A NEMA 14-30 RECEPTACLE AND HOMERUN WITH (3)#10 & #10 GROUND WIRE IN A 3/4" CONDUIT.
- MAKE ELECTRICAL CONNECTION TO AHU WITH (3)#4 & #10 GROUND IN A 3/4" CONDUIT.
- PROVIDE HUBBLE 30A/2P DISCONNECT TOGGLE SWITCH. MAKE ELECTRICAL CONNECTION TO WH WITH (2)#10 & #10 GROUND IN A 3/4" CONDUIT.
- MOUNT BOTTOM OF FIXTURE AT 7'-10" AFF. SEE ARCHITECTURAL DRAWINGS FOR REFERENCE.
- PROVIDE NEW DOORBELL CHIME KIT BY NITONE, MODEL BK240LNH WITH ONE 2-NOTE, WHITE DOOR CHIME AND LIGHTED PUSHBUTTON.
- PROVIDE LOCKABLE CIRCUIT BREAKER FOR SMOKE DETECTION CIRCUIT.

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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 816.531.1988 F 816.531.1978



ENLARGED DUPLEX  
ELECTRICAL PLAN

ISSUE DATE:  
OCTOBER 18, 2019

REVISIONS:

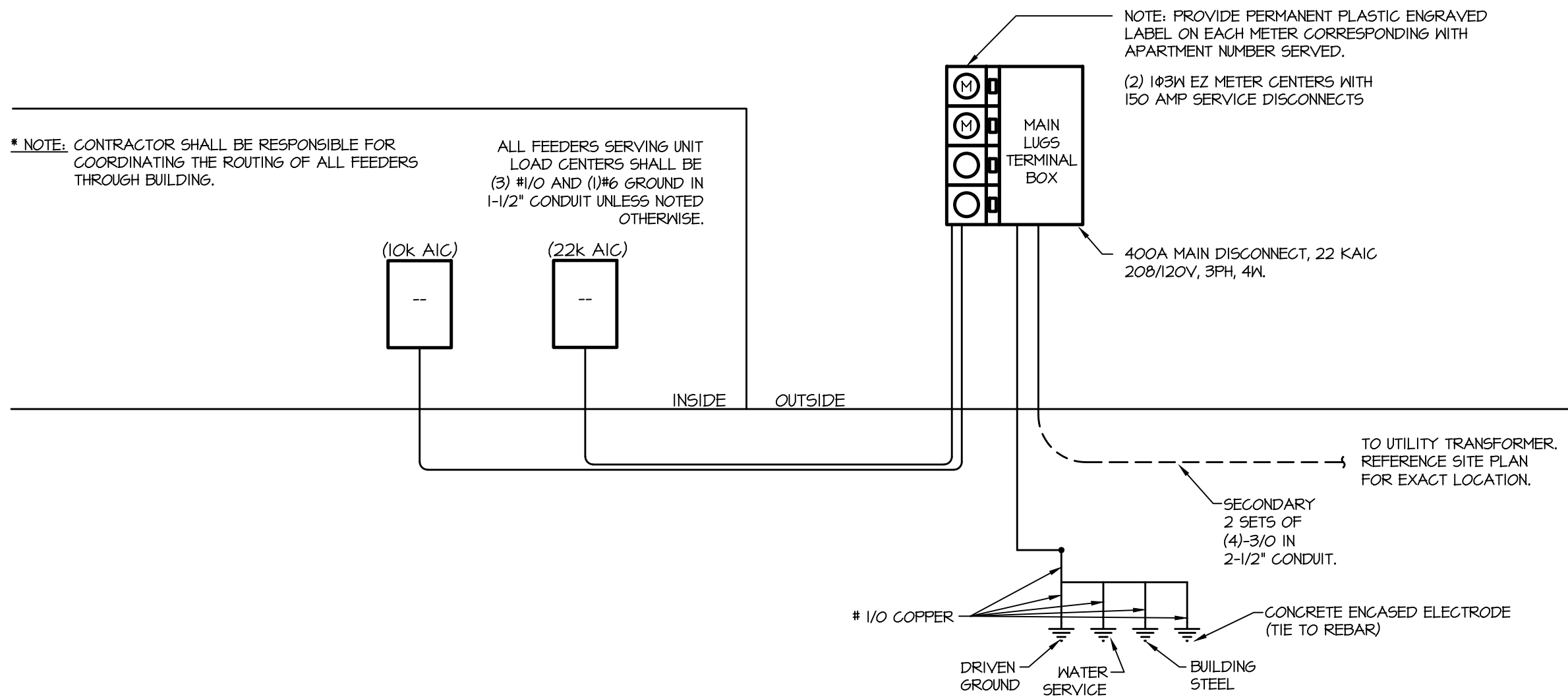
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H&B PROJECT NUMBER: 1920580  
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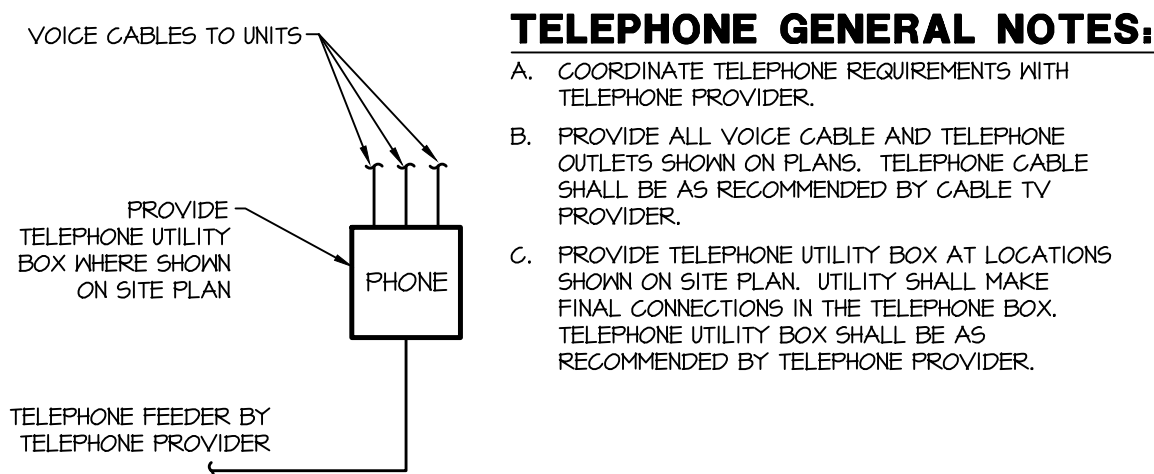
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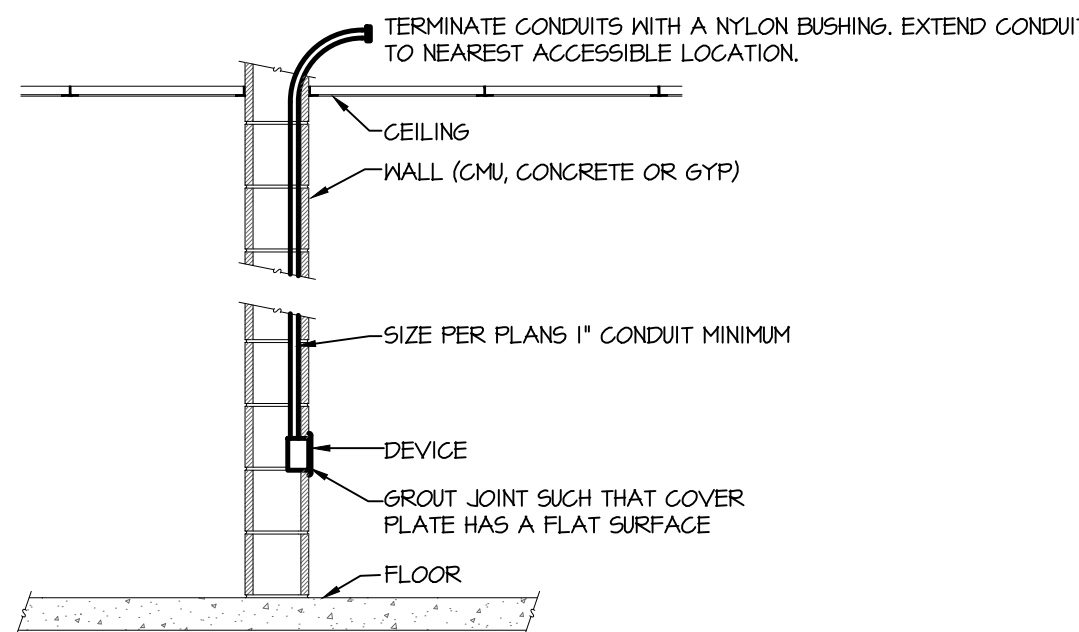




B1 Duplex Electrical Riser Diagram  
SCALE: NTS



B4 Telephone Detail & Notes  
SCALE: NTS

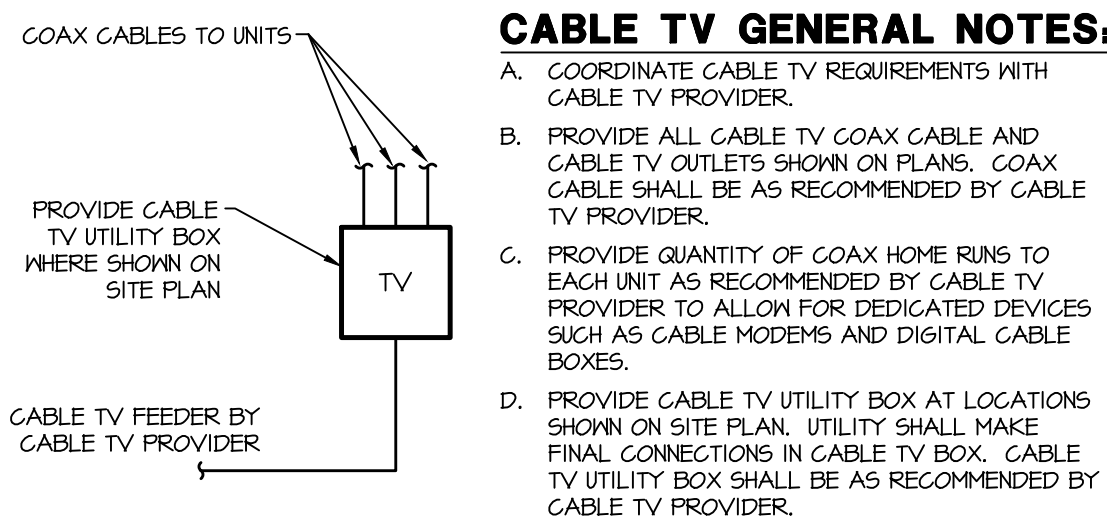


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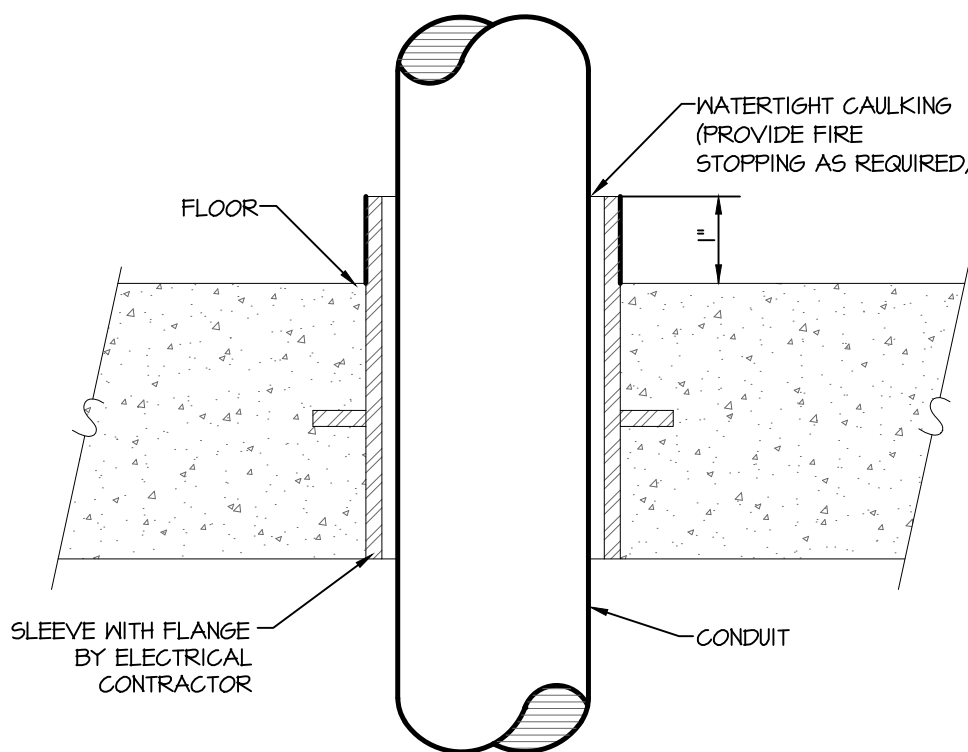
1. DEVICE MOUNTED AT NORMAL RECEPTACLE HEIGHT UNLESS NOTED OTHERWISE. REFER TO PLANS FOR MOUNTING HEIGHTS.

2. REFER TO SPECS FOR OTHER INSTALLATION REQUIREMENTS.

B6 Data Conduit & Back Box  
SCALE: NTS



B3 Cable TV Detail & Notes  
SCALE: NTS



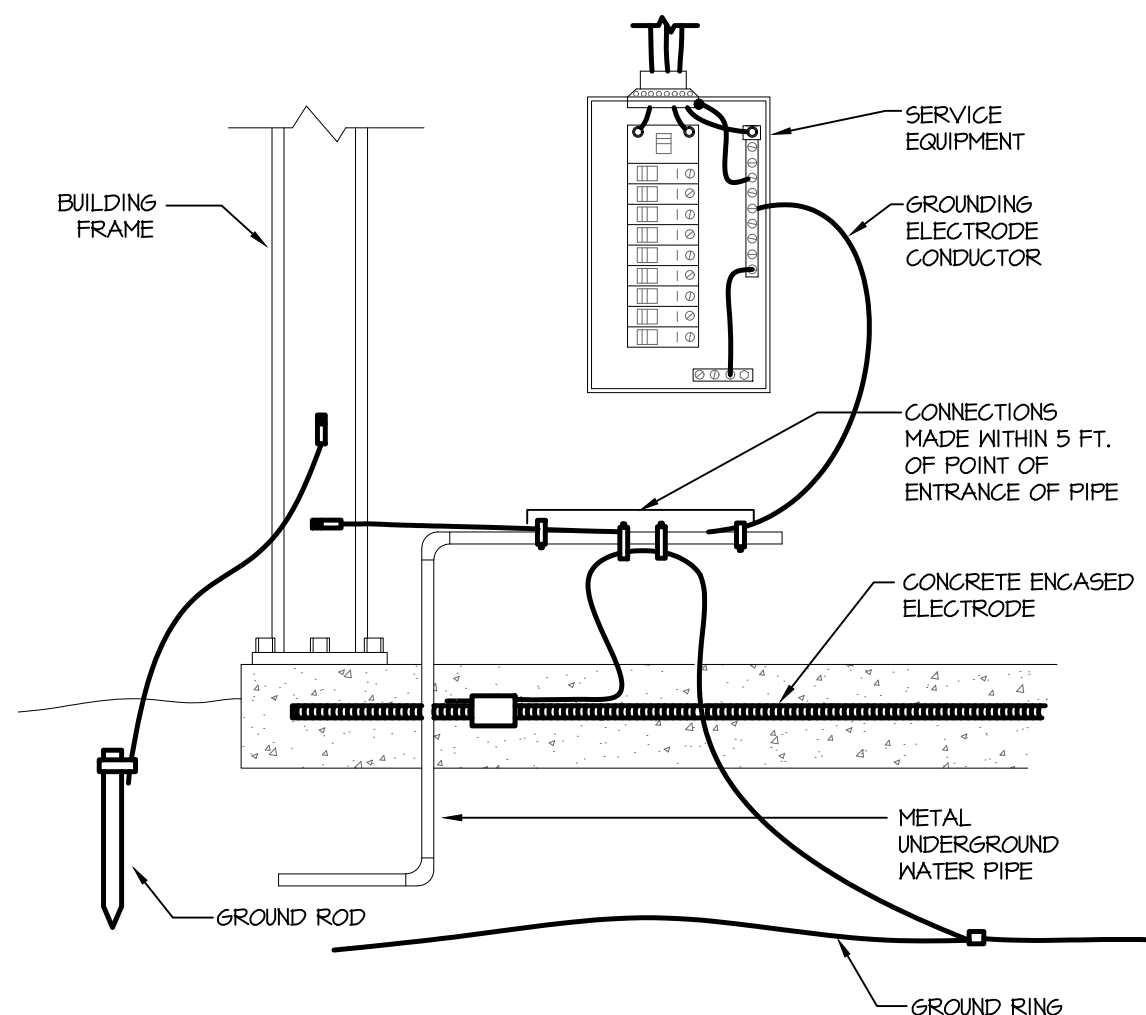
B6 Conduit Penetration Through Floor  
SCALE: NTS

## LIGHT FIXTURE SCHEDULE

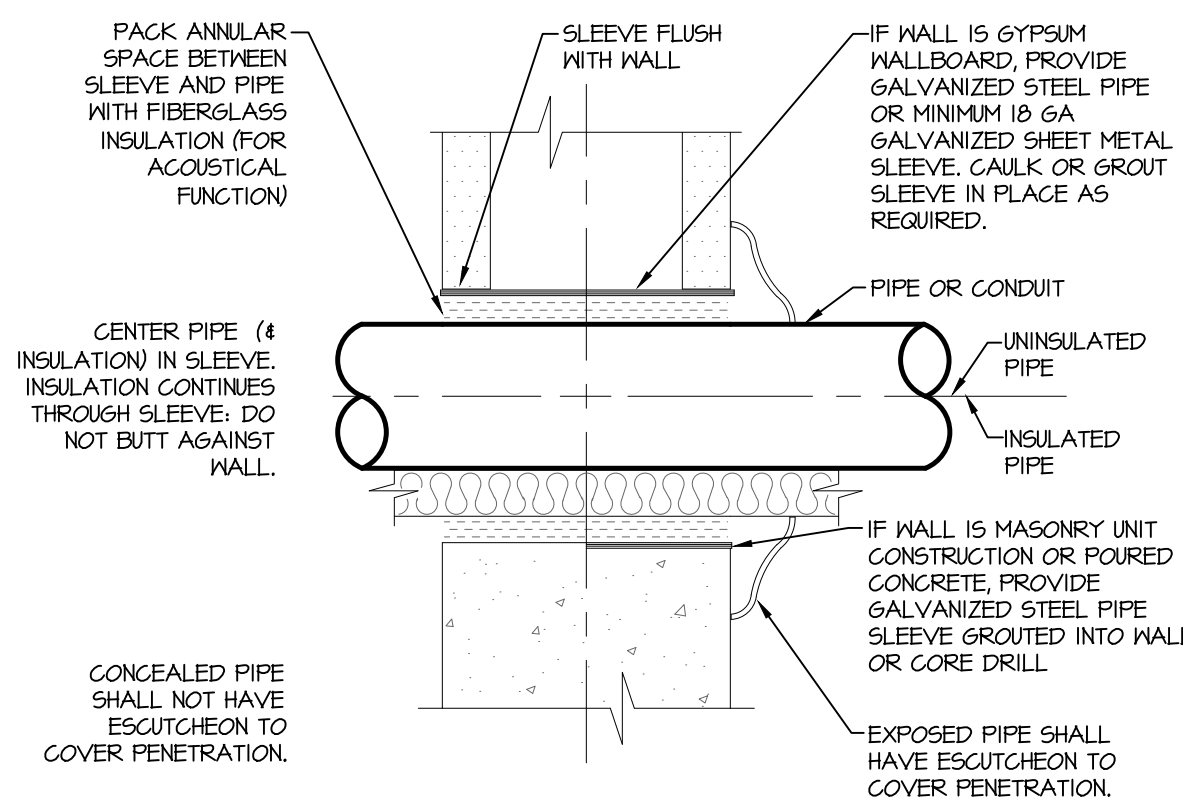
MARK	MANUFACTURER	MODEL	LAMP DATA			VOLTS	MOUNTING	TOTAL WATTS	DESCRIPTION	NOTES
			LUMENS	TYPE	COLOR (K)					
A	SIGNIFY	STR830K10	1000	LED	3000	120	SURFACE	14.2	1" SLIM SURFACE LED	1
B	HUNTER	54242	2000	LED	3000	120	PENDANT	86	CEILING FAN W/LED	1
C	MAC LIGHTING	LED-T24-P-JT	215/FT	LED	3000	120	SURFACE	3/FT	UNDERCABINET TAPELIGHT	3,4,5
D	MAC LIGHTING	BRINK P5-T1636-30	2445	LED	3000	120	WALL	30	36" VANITY FIXTURE	1,2
G	LITHONIA	FMLNL-48-840	2380	LED	4000	120	SURFACE	54	4'-0" LED WRAPAROUND FIXTURE	
H	PROGRESS	P8022-28-30K	1050	LED	3000	120	SURFACE	17	1" SHOWER FIXTURE	1
J	HE WILLIAMS	T5R-2-L15/830-DRV-120	1500	LED	3000	120	SURFACE	12	2" LENSED LED STRIP	
K	KICHLER	ASHLAND BAT 16" 4951KZG	1600	LED ISOM EQ.	3000	120	SURFACE	15	16" 1 LIGHT EXTERIOR WALL SCONCE	1,2,6,7

- NOTES:**
1. VERIFY FINISH WITH ARCHITECT PRIOR TO ORDERING.
  2. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
  3. PROVIDE ALL REQUIRED POWER SUPPLIES/LOW VOLTAGE TRANSFORMERS FOR A COMPLETE INSTALLATION. FIXTURE SHALL BE CUT AND MODIFIED IN THE FIELD FOR EXACT LENGTHS AS SHOWN ON PLANS.
  4. PROVIDE WITH REMOTE WET LOCATION POWER PACK: EN-024100-RE2-T.
  5. FIXTURE SHALL BE MOUNTED IN COVE AS DETAILED BY ARCHITECT OR MOUNTED UNDER CABINET.
  6. MOUNT BOTTOM OF FIXTURE AT 5'-2" AFF UNLESS OTHERWISE NOTED. VERIFY WITH ARCHITECT PRIOR TO ROUGH-IN.
  7. PROVIDE EQUIVALENT LED BULB 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.



B2 Grounding electrode System  
SCALE: NTS



NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR WALL LOCATIONS. REFER TO SPECIFICATIONS FOR ALTERNATIVE INSTALLATIONS. COORDINATE REQUIREMENTS WITH GENERAL CONTRACTOR.

B5 Conduit Penetration Through Non-Firewall  
SCALE: NTS

PANEL A3 (LOAD CENTER)									
DESCRIPTION: 150A MCB			100% Neutral Bus			VOLTAGE: 120/208V, 1PH, 3 WIRE			
10 KAIC RATING			TOTAL CONNECTED LOAD: 47kW+ 224A			DEMANDED LOAD CONTINUOUS: 30kW+ 144A			
NO	LOAD (W)	LOAD DESCRIPTION	AMP	SIZE	AMP	SIZE	LOAD DESCRIPTION	LOAD (W)	NO
1	850	LIGHTING	1	20	A	20	1 GARBAGE DISPOSAL	1200	2
3	900	RCPT - LIVING ROOM	1	20	B	20	1 DISHWASHER	1500	4
5	120	RCPT - DINING/GARAGE	1	20	A	20	1 MICROWAVE	1000	6
7	120	RCPT - BEDROOM	1	20	B	50	2 RANGE	4550	8
9	120	RCPT - BEDROOM	1	20	A			4550	10
11	180	RCPT - BATHROOM	1	20	B	20	1 RCPT - KITCHEN	360	12
13	2500	DRYER	2	30	A	20	1 RCPT - KITCHEN	360	14
15	2500				B	20	1 REFRIGERATOR	800	16
17	1500	WASHER	1	20	A	30	2 WATER HEATER	2250	18
19	360	GARAGE OPENER	1	20	B			2250	20
21	180	SMOKE DETECTOR	1	20	A	60	2 AHU-XXX	6500	22
23		SPARE	1	20	B			6500	24
25		SPARE	1	20	A	30	2 HP-XXX	1851	26
27		SPARE	1	20	B			1851	28
29		SPARE	1	20	A	20	1 SPARE		30

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

## ELECTRICAL LOAD SUMMARY ESTIMATE (PER NEC 220.84)

DUPLEX METER CENTER	TOTAL
NUMBER OF CI UNITS	2
APARTMENT CI SQUARE FOOTAGE	1350
TOTAL NUMBER OF UNITS	2
NET APARTMENT SQUARE FOOTAGE	2700
(2) 1500 VA SMALL APPLIANCE BRANCH CIRCUIT	6000
3 VA /50FT GENERAL LIGHTING AND RECEPTACLES	8100
ELECTRIC RANGE (4000 VA)	18200
DISHWASHER (1200 VA)	2400
GARBAGE DISPOSAL (1120 VA)	2240
CLOTHES WASHER (1500 VA)	3000
CLOTHES DRYER (5000 VA)	10000
MICROWAVE (1500 VA)	3000
AHU ELECTRIC HEAT (15KW)	30000
HEAT PUMP (3100 VA)	1400
ELECTRIC WATER HEATER (4500 VA)	4000
TOTAL UNIT LOADS (VA)**	94340
DEMAND FACTOR (FROM NEC T220.84)	1
UNIT DEMAND LOAD (VA)**	94340
UNIT DEMAND LOAD (AMPS)	215.7
TOTAL DEMAND LOAD (AMPS)	215.7
TOTAL DISCONNECT SIZE	400 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.



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DUPLEX ELECTRICAL  
SCHEDULES &  
DETAILS

ISSUE DATE:  
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