

DUPLEX ELEVATION

SECTION 8, TOWNSHIP 18, RANGE 15



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

ARCHITECTURAL DRAWINGS

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B A3.I SECTION & DETAILS

WALL SECTIONS & DETAILS

SECTIONS & DETAILS ENLARGED UNIT PLAN & INTERIOR ELEVATIONS

SCHEDULES & FINISH FLOOR PLAN

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DUPLEX ELECTRICAL SCHEDULES & DETAILS

GENERAL PROJECT NOTES

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

PROJECT TEAM

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 BELLEVIEW KANSAS CITY, MO 64111 TEL 816 531 4144 FAX 816 531 8572

MECHANICAL, ELECTRICAL \$ PLUMBING ENGINEER

HOSS & BROWN ENGINEERS INC. 11205 WEST 79TH STREET LENEXA, KANSAS 66214 TEL 913 362 9090 FAX 913 362 9696

CROCKETT ENGINEERING CONSULATANTS, LLC 1000 W NIFONG BLYD, BLDG I COLUMBIA, MO 65202 TEL 573 447 0292

DEVELOPER

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

GENERAL CONTRACTOR

OLYMPUS CONSTRUCTION, INC. 2506 W. WASHINGTON JONESBORO, ARKANSAS 72401 TEL 870 932 6670 FAX 870 932 0856

ISSUE DATE:

OCTOBER 18, 2019



TIMBER RIDGE COTTAGES

BROKEN ARROW, WAGONER COUNTY, OK



- I. TRASH ENCLOSURE. RE: TO A5/SPI.2.
- MAILBOX(S). RE: A7/SPI.2. PROVIDE CONCRETE PAD AT EACH LOCATION. RE: CIVIL. 105500.13
- REDUCE DEPTH OF CONCRETE PATIO THIS LOCATION. REFER TO A6/AI,I FOR ADDITIONAL INFORMATION.



ARCHITECTURAL CORPORATION OKLAHOMA CERTIFICATE

OF AUTHORITY NO. CA 02479

COTTAGES RIDGE TIMBER

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



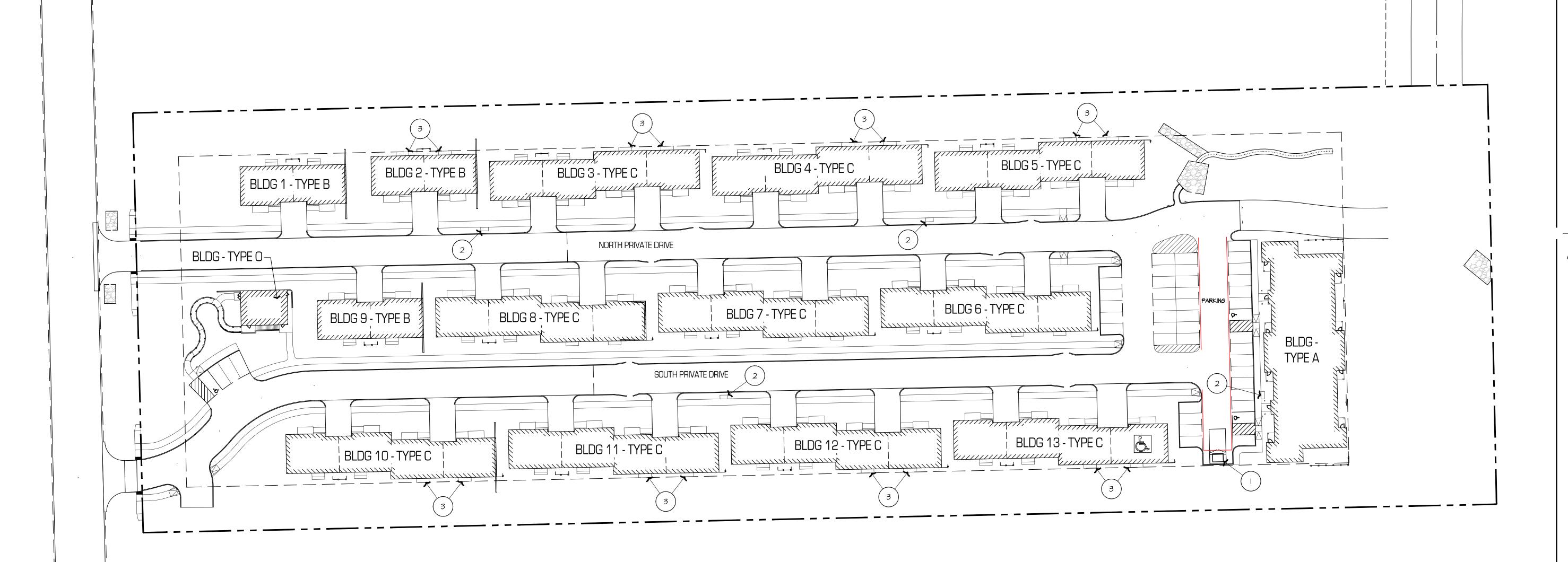
SITE PLAN

ISSUE DATE: OCTOBER 18, 2019

REVISIONS:

PROJECT NO.: 1902

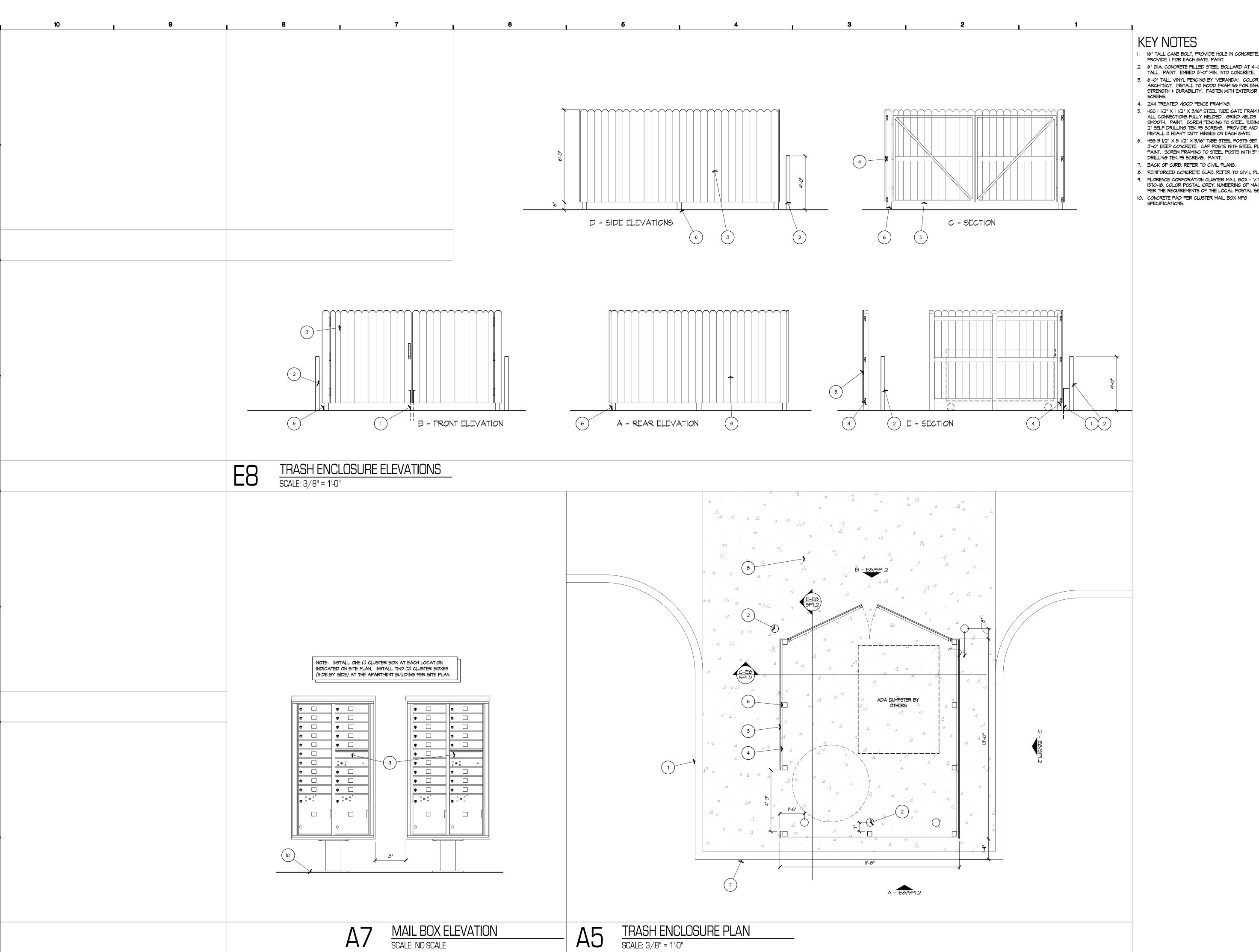
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10 ₁ 9 ₁ 8 ₁ 7 ₁ 6 ₁ 5 ₁ 4 ₁ 3 ₁ 2 ₁ 1

NORTH





- I6" TALL CANE BOLT, PROVIDE HOLE IN CONCRETE. PROVIDE I FOR EACH GATE. PAINT.
- 2. 6" DIA. CONCRETE FILLED STEEL BOLLARD AT 4'-0"
- 3. 6'-0" TALL VINYL FENCING BY 'VERANDA'. COLOR BY ARCHITECT. INSTALL TO WOOD FRAMING FOR ENHANCED STRENGTH & DURABILITY. FASTEN WITH EXTERIOR GRADE
- 4. 2X4 TREATED WOOD FENCE FRAMING.
- HSS | 1/2" X | 1/2" X 3/16" STEEL TUBE GATE FRAMING. ALL CONNECTIONS FULLY WELDED. GRIND WELDS SMOOTH. PAINT. SCREW FENCING TO STEEL TUBING WITH 2" SELF DRILLING TEK #5 SCREWS. PROVIDE AND INSTALL 3 HEAVY DUTY HINGES ON EACH GATE. 6. HSS 3 I/2" X 3 I/2" X 3/I6" TUBE STEEL POSTS SET IN MIN.
- 3'-O" DEEP CONCRETE. CAP POSTS WITH STEEL PLATE. PAINT. SCREW FRAMING TO STEEL POSTS WITH 3" SELF DRILLING TEK #5 SCREWS. PAINT.
- 7. BACK OF CURB. REFER TO CIVIL PLANS. 8. REINFORCED CONCRETE SLAB. REFER TO CIVIL PLANS.
- 9. FLORENCE CORPORATION CLUSTER MAIL BOX VITAL 1570-18. COLOR POSTAL GREY, NUMBERING OF MAILBOX
- PER THE REQUIREMENTS OF THE LOCAL POSTAL SERVICE. IO. CONCRETE PAD PER CLUSTER MAIL BOX MFG SPECIFICATIONS.



ARCHITECTURAL CORPORATION OKLAHOMA CERTIFICATE

OF AUTHORITY NO. CA 02479

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

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



SITE DETAILS

ISSUE DATE:

OCTOBER 18, 2019 **REVISIONS:**

PROJECT NO.: 1902

FIRE IFC 2015 INTERNATIONAL FIRE CODE ELECTRICAL: NEC 2015 NATIONAL ELECTRICAL CODE

ZONING: PUD

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

OCCUPANCY CLASSIFICATION: TWO-FAMILY DWELLING

BUILDING HEIGHT: 35' ALLOWED PER ZONING 18' ACTUAL

TYPE OF CONSTRUCTION: TYPE VB PER 2015 IBC

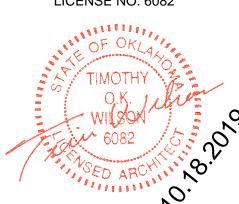
<u>BUILDING AREA:</u> AREA = 2,402 SF

EST 1935

ARCHITECTURAL CORPORATION OKLAHOMA CERTIFICATE OF AUTHORITY NO. CA 02479

TIMBER RIDGE COTTAGES TION 8, TOWNSHIP 18, EN ARROW, WAGONER

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



CODE ANALYSIS

ISSUE DATE: OCTOBER 18, 2019 **REVISIONS:**

PROJECT NO.: 1902

September 17, 2019

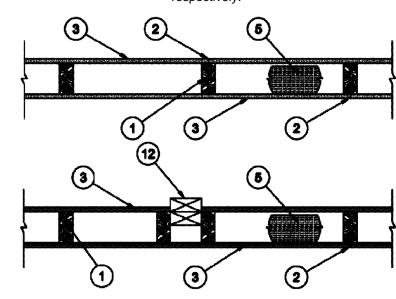
Bearing Wall Rating — 1 Hr Finish Rating — See Items 3, 3A, 3D, 3E, 3F, 3G, 3H, 3J and 3L.

STC Rating - 56 (See Item 9)

Design No. U305

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

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



Wood Studs — Nom 2 by 4 in. spaced 16 in. OC max, effectively

firestopped Joints and Nail-Heads — Joints covered with joint compound and paper tape. Joint compound and paper tape may be omitted when square edge boards are used. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape. Nailheads exposed or covered with joint compound. 3. Gypsum Board* — 5/8 in. thick paper or vinyl surfaced, with

beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. When used in widths other than 48 in., gypsum panels are to be installed horizontally. For an alternate method of attachment of gypsum panels, refer to Items 6 through 6F, Steel Framing Members*.

When Items 6, 6B, 6C, 6D, 6E, or 6F, Steel Framing Members*, are used, gypsum panels attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.

When Item 6A, Steel Framing Members*, is used, two layers of gypsum panels attached to furring channels. Base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC. Face layer attached to furring channels with 1-5/8 in. long Type S bugle-head steel screws spaced 12 in. OC. All joints in face layers staggered with joints in base layers. One layer of gypsum board attached to opposite side of wood stud without furring channels as described in Item 3.

When Item 7, resilient channels are used, 5/8 in. thick, 4 ft wide gypsum panels applied vertically. Screw attached furring channels with 1 in. long, self-drilling, self-tapping Type S or S-12 steel screws spaced 8 in. OC, vertical joints located midway between studs.

CABOT MANUFACTURING ULC — Type X (finish rating 22 min), 5/8 Type X, Moisture Resistant Type X, Gypsum Sheathing Type X, Mold & Mildew Resistant Type X and Mold & Mildew Resistant AR Type X, Type Blueglass

AMERICAN GYPSUM CO — Types AGX-1(finish

rating 23 min.), M-Glass (finish rating 23 min.), Type AGX-11 (finish rating 26 min), Type AGX-12 (finish rating 22 min), Type LightRoc (finish rating 23 min.)

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1 (finish

CERTAINTEED GYPSUM INC — Type 1, Type SF3 (finish rating 20 min) or FRPC; Type C., Type X or Type X-1 (finish rating 26 min); Type EGRG or

GlasRoc (finish rating 23 min), GlasRoc-2, Type Habito (finish rating 26 min). CGC INC — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type ULX (finish rating 22 min), Type

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC6A (finish rating 34 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX (finish rating 21 min), Type CLLX (finish rating 24 min)

WRC (finish rating 24 min), Type WRX (finish rating 24 min)

GEORGIA-PACIFIC GYPSUM L L C — Type 5 (finish rating 26 min), Type 6 (finish rating 23 min), Type 9 (finish rating 26 min). Type C (finish rating 26 min), Type DGG (finish rating 20 min), Type GPFS1 (finish rating 20 min), Type GPFS2 (finish rating 20 min), Type GPFS6 (finish rating 26 min), Type DS, Type DAP, Type DD (finish rating 20 min), Type DA, Type DAPC, Type LS (finish rating 23 min), Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, Type LWX (finish rating 22 min), Veneer Plaster Base-Type LWX (finish rating 22 min), Water Rated-Type LWX (finish rating 22 min), Sheathing Type-LWX (finish rating 22 min), Soffit-Type LWX (finish rating 22 min), Type DGLW (finish rating 22 min), Water Rated-Type DGLW (finish rating 22 min), Sheathing Type- DGLW (finish rating 22 min), Soffit-Type DGLW (finish rating 22 min), Type LWX (finish rating 22 min), Type LW2X (finish rating 22 min), Veneer Plaster Base - Type LW2X (finish rating 22 min), Water Rated - Type LW2X (finish rating 22 min), Sheathing - Type LW2X (finish rating 22 min), Soffit - Type LW2X (finish rating 22 min), Type DGL2W (finish rating 22 min), Water Rated - Type DGL2W (finish rating 22 min), Sheathing - Type DGL2W (finish rating 22 min)

NATIONAL GYPSUM CO — Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW-2 (finish rating 24 min), Type FSW-3 (finish rating 20 min), Type FSW-5 (finish rating 22 min), Type FSW-G (finish rating 20 min), Type FSK-C (finish rating 20 min), Type FSW-C (finish rating 20 min), Type FSMR-C, Type FSW-6 (finish rating 20 min), Type FSL (finish rating 24 min), Type FSW-8, Type FSLX (finish rating 21 min).

NATIONAL GYPSUM CO — Riyadh, Saudi Arabia — Type FR, or WR.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types C, PG-2 (finish rating 20 min), PG-3 (finish rating 20 min), Types PG-3W, PG-5W (finish rating 20 min), Type PG-4 (finish rating 20 min), Type PG-6 (finish rating 23 min), Types PG-3WS, PG-5WS, PGS-WRS (finish rating 20 min), Types PG-5, PG-9 (finish rating 26 min), PG-11 PG-13 (Nails increased to 2 in.), or Type PG-C

PANEL REY S A — Type GREX, GRIX, PRX, PRC, PRC2; Types RHX, Guard Rey, MDX, ETX (finish rating 22 min)

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1 (finish

THAI GYPSUM PRODUCTS PCL — Type C, Type X (finish rating 26 min)

UNITED STATES GYPSUM CO — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type FRX-G (finish rating 29 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SCX (finish rating 24 min), Type SGX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type ULIX (finish rating 20 min)

USG BORAL DRYWALL SFZ LLC — Type SGX (finish rating 24 min).

USG MEXICO S A DE C V — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), SCX (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type ULX (finish rating 22 min)

3A. Gypsum Board* — (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths of other than 48 in., gypsum boards are to be installed horizontally. AMERICAN GYPSUM CO — Types AGX-1 (finish

rating 25 min.), M-Glass (finish rating 25 min.), AG-C (finish rating 25 min.), LighttRoc (finish rating 25 min.)

CERTAINTEED GYPSUM INC — Type C, Type X or Type X-1 (finish rating 26 min)

CGC INC — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min). Type IPC-AR (finish rating 24 min). Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min)

NATIONAL GYPSUM CO — Type FSW (finish rating 24 min)

UNITED STATES GYPSUM CO — Type AR (finish rating 24 min), Type SCX (finish rating 24 min), Type SGX (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type FRX-G (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min)

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX (finish rating 24 min).

USG MEXICO S A DE C V — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SCX, Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min)

3B. Gypsum Board* — (As an alternate to Item 3) — Nom 3/4 in. thick, installed with 1-7/8 in. long cement coated nails as described in Item 3 or 1-3/8 in. long Type W coarse thread gypsum panel steel screws as described in Item 3A. CGC INC — Types AR, IP-AR

UNITED STATES GYPSUM CO — Types AR, IP-AR

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

3C. Gypsum Board* — (As an alternate to Items 3, 3A and 3B) — 5/8 in. thick, 2 ft wide, tongue and groove edge, applied horizontall to one side of the assembly. Installed with 1-7/8 in. long cement coated nails as described in Item 3 or 1-1/4 in. long Type W coarse thread gypsum panel steel screws as described in Item 3A. Joint covering (Item 2) not required.

CGC INC — Type SHX UNITED STATES GYPSUM CO — Type SHX USG MEXICO S A DE C V — Type SHX

3D. Gypsum Board* — (As an alternate to Items 3, 3A, 3B, or 3C — Not Shown) — For Direct Application to Studs Only- Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs or tabs may be used in lieu of or in addition to the lead batten strips or optional at other locations. Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards underneath screw locations prior to the installation of the screws. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". RAY-BAR ENGINEERING CORP — Type RB-LBG (finish rating 24 min)

3E. Gypsum Board* — (As an alternate to Items 3, 3A, 3B, 3C, and 3D) — 5/8 in. thick gypsum panels, with square edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last 2 screws 1 and 4 in. from edge of board or nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. When used in widths of other than 48 in., gypsum boards are to be installed horizontally. GEORGIA-PACIFIC GYPSUM L L C — Type DGG (finish rating 20 min), GreenGlass Type X (finish rating 23 min)

3F. Gypsum Board* — (As an alternate to Items 3, 3A, 3B, 3C, 3D, and 3E) — 5/8 in. glass-mat faced with square edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC around the perimeter and in the field with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Nails shall be placed 1 inch and 3 inch from horizontal joints and 7 inch OC thereafter. CGC INC — Type USGX (finish rating 22 min)

UNITED STATES GYPSUM CO — Type USGX (finish rating 22 min.) USG BORAL DRYWALL SFZ LLC — , Type USGX (finish rating 22 min.) USG MEXICO S A DE C V — Type USGX (finish rating 22 min.)

Deadening Gypsum Board (finish rating 27 min)

3G. Gypsum Board* — (As an alternate to Items 3 through 3F) — 5/8 in. thick paper surfaced applied vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam GEORGIA-PACIFIC GYPSUM L L C — Type X ComfortGuard Sound

3H. Gypsum Board* — (As an alternate to Items 3) — Not to be used with items 6 or 7. 5/8 in. thick paper surfaced applied vertically only. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. NATIONAL GYPSUM CO — Type SBCB

31. Gypsum Board* — (As an alternate to Items 3 through 3H. Not Shown) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically. Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Panel joints covered with paper tape and two layers of joint compound. Nailheads covered with two layers of joint compound. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES (finish rating 20 min)

3J. Gypsum Board* — (As an alternate to Item 3) — Not to be used with items 6 or 7, 5/8 in, thick paper surfaced applied vertically or horizontally. Gypsum panels secured per item 3 or 3A. CERTAINTEED GYPSUM INC — Type SilentFX

3K. Gypsum Board* — (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 8 in. OC with the last screw 1 in. from the edge of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally. NATIONAL GYPSUM CO — Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW-2 (finish rating 24 min), Type FSW-3 (finish rating 20 min), Type FSW-5 (finish rating 22 min), Type FSW-G (finish rating 20 min), Type FSK-C (finish rating 20 min), Type FSW-C (finish rating 20 min), Type FSMR-C, Type FSW-6 (finish rating 20 min), Type FSL (finish rating 24 min).

3L. Gypsum Board* — (As an alternate to Item 3) — For Direct Application to Studs Only — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations, Lead batten strips, min 2 in, wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, max 5/16 in. diam by max 0.140 in. thick. compression fitted or adhered over the screw heads. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". MAYCO INDUSTRIES INC — "X-Ray Shielded Gypsum"

3M. Gypsum Board* — (As an alternate to Items 3) — For Direct Application to Studs Only — For use as the base layer or as the face layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. When applied as the face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4. RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined

3N. Gypsum Board* — (As an alternate to Item 3) — 5/8 in. thick, 4 ft. wide, applied horizontally or vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Secured as described in Item 3 or 3A. CERTAINTEED GYPSUM INC — Easi-Lite Type X (finish rating 24 min), Easi-Lite Type X-2 (finish rating 24 min)

30. Wall and Partition Facings and Accessories* — (As an alternate to Item 3. Not Shown) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically. Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Panel joints covered with paper tape and two layers of joint compound. Nailheads covered with two layers of joint compound. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527 (finish rating 24 min).

3P. Gypsum Board* — (As an alternate to Item 3, Not Shown) — Two layers nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by wood studs. Horizontal joints on the same side between face and base layers need not be staggered. Base layer gypsum panels fastened to studs with 1-1/4 in. long drywall nails spaced 8 in. OC. Face layer gypsum panels fastened to studs with 1-7/8 in. long drywall nails spaced 8 in. OC starting with a 4" stagger. NATIONAL GYPSUM CO — Type FSW (finish rating 25 min)

3Q. Gypsum Board* — (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally. CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC6A (finish rating 21 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX

3R. Gypsum Board* — (As an alternate to Item 3. For use with Item 5H) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 3 above. Applied either horizontally or vertically, and screwed to panels with 1-5/8 in. long Type W coarse thread steel screws at 8 in. OC at perimeter and in the field with the last two screws 4 and 3/4 in. from the edges of the board when applied as the base layer. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

3S. Gypsum Board* — 3/4 in. thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels secured as described in Item 3 with nail length increased to 2

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-13

3T. Wall and Partition Facings and Accessories* — (As an alternate to 5/8 in. thick board as outlined in Item 3) — Nominal 1-3/8 in. thick, 4 ft wide panels, applied vertically or horizontally. Fastened with #6 x 2 in. long drywall screws spaced 8 in. OC along the perimeter and 12 in. OC in the field. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 545

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

5. Batts and Blankets* — (Optional — Required when Item 6A is used (RC-1)) — Glass fiber or mineral wool insulation. Placed to completely or partially fill the stud cavities. When Item 6A is used, glass fiber or mineral wool insulation shall be friction-fitted to completely fill the stud cavities. CERTAINTEED CORP

JOHNS MANVILLE KNAUF INSULATION LLC MANSON INSULATION INC ROCK WOOL MANUFACTURING CO — Delta Board ROCKWOOL — Acoustical Fire Batts THERMAFIBER INC — Type SAFB, SAFB FF

THERMAFIBER INC — Type SAFB, SAFB FF

5A. Fiber, Sprayed* — (Not Shown — Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft3. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft3, in accordance with the application instructions supplied with the product. When Item 6B is used, Fiber, Sprayed shall be INS735, INS745, INS750LD, INS765LD or INS773LD. U S GREENFIBER L L C — INS735, INS745 and INS750LD for use with wet or dry application. INS515LD, INS541LD, INS735, INS765LD, and INS773LD are to be used for dry application only

5B. Fiber, Sprayed* — (Not Shown - Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft. NU-WOOL CO INC — Cellulose Insulation

5C. Batts and Blankets* — Required for use with resilient channels, Item 7, 3 in. thick mineral wool batts, friction-fitted to fill interior of

5D. Glass Fiber Insulation — (As an alternate to Item 5C) — 3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, friction-fitted to fill the interior of the wall. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies. 5E. Batts and Blankets* — (Required for use with Wall and Partition Facings and Accessories, Item 3D) — Glass fiber insulation, nom 3-1/2 in. thick, min. density of 0.80 pcf, with a flame spread of 25 or less and a smoke developed of 50 or less, friction-fitted to completely fill the stud cavities. See Batts and Blankets Category (BKNV) for names of manufacturers.

5F. Fiber, Sprayed* — (Optional, Not Shown — Not for use with Items 6, 6A, 6B, 6C, or 6D) — As an alternate to Batts and Blankets (Item 5) and Item 5A - Spray applied granulated mineral fiber material. The fiber is applied with adhesive, at a minimum density of 4.0 pcf, to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CCAZ). AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool

5G. Fiber, Sprayed* — (Optional, Not Shown — Not for use with Items 6, 6A, 6B, 6C, or 6D). — As an alternate to Batts and Blankets (Item 5) and Item 5A - Brown Colored Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed stud cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft3. INTERNATIONAL CELLULOSE CORP — Celbar-RL

5H. Foamed Plastic* — (Optional -For use with Item 3R) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. SES FOAM INC — Nexseal™ 2.0 or Nexseal™ 2.0 LE Spray Foam and Sucraseal Spray Foam.

51. Fiber, Sprayed* — (Not Shown — Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) - Spray-applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by any means possible to the outer face the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/ft3. APPLEGATE HOLDINGS L L C — Applegate Advanced Stabilized Cellulose

6. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.

b. Steel Framing Members* — Used to attach furring channels (Item 6a) to studs. Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels. PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75)

6A. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members on one side of studs as described below: a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board

attached to furring channels as described in Item 3. b. Steel Framing Members* — Used to attach furring channels (Item 6Aa) to one side of studs only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips. KINETICS NOISE CONTROL INC — Type Isomax

6B. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3. b. Steel Framing Members* — Used to attach furring channels (Item 6Ba) to studs. Clips spaced 48 in. OC. Genie clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. PLITEQ INC — Type Genie Clip

6C. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of

No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels

as described in Item 3. b. Steel Framing Members* — Used to attach furring channels (Item 6Ca) to studs. Clips spaced 48 in. OC., and secured to studs with No. 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips. STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type

6D. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:

a. Furring Channels — Formed of No. 25 MSG galv

REGUPOL AMERICA — Type SonusClip

steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with a double strand of No. 18 AWG twisted steel wire. Gypsum board attached to furring channels as described in Item 3. b. Steel Framing Members* — Used to attach furring channels (Item 6Da) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted

6E. Steel Framing Members* — (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below: a. Resilient Channels — Formed of No. 25 MSG galv

steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 3.

b. Steel Framing Members* — Used to attach resilient channels (Item 6Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling

KEENE BUILDING PRODUCTS CO INC - Type RC+ Assurance Clip

6F. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. or 1-1/2 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described

in Item 3. b. Steel Framing Members* — Used to attach furring channels (Item 6Fa) to studs. Clips spaced 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

7. Furring Channel — Optional — Not Shown — For use on one side of the wall - Resilient channels, 25 MSG galv steel, spaced vertically 24 in. OC, flange portion screw attached to one side of studs with 1-1/4 in. long diamond shaped

point, double lead Phillips head steel screws. When resilient channels are used,

insulation, Items 5C or 5D is required. 8. Caulking and Sealants — (Not Shown, Optional) — A bead of acoustical sealant applied around the partition perimeter for sound control. 9. STC Rating — The STC Rating of the wall assembly is 56 when it is constructed as described by Items 1 through 6, except:

Item 2, above — Nailheads Shall be covered with joint compound. Item 2, above — Joints As described, shall be covered with fiber tape and ioint compound Item 5, above — Batts and Blankets* The cavities formed by the studs shall be friction fit with R-19 unfaced fiberglass insulation batts measuring 6-1/4

in, thick and 15-1/4 in, wide, D. Item 6, above — Steel Framing Members* Type RSIC-1 clips shall be used to attach gypsum board to studs on either side of the wall assembly. E. Item 8, above — Caulking and Sealants (Not Shown) A bead of acoustical sealant shall be applied around the partition perimeter for sound

F. Steel Corner Fasteners (Item 4), Fiber, Sprayed (Items 5A and 5B) and Steel Framing Members (Item 6A), not evaluated as alternatives for obtaining STC rating. 10. Wall and Partition Facings and Accessories* — (Optional, Not Shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in

accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the wood framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-500 and QR-510

11. Cementitious Backer Units* — (Optional Item Not Shown — For Use On Face Of 1 Hr Systems With All Standard Items Required) - 7/16 in., 1/2 in., 5/8 in., 3/4 in. or 1 in. thick, min. 32 in. wide. Applied vertically or horizontally with vertical joints centered over studs. Fastened to studs and runners with cement board screws of adequate length to penetrate stud by a minimum of 3/8 in. for steel framing members, and a minimum of 3/4 in. for wood framing members spaced a max of 8 in. OC. When 4 ft. wide boards are used, horizontal joints need not be backed by framing. NATIONAL GYPSUM CO — Type DuraBacker, PermaBase, DuraBacker Plus, or PermaBase Plus

12. Non-Bearing Wall Partition Intersection — (Optional) —Two nominal 2 by 4 in. studs or nominal 2 by 6 in. studs nailed together with two 3 in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.

13. Mesh Netting — (Not Shown) — Any thin, woven or non-woven fibrous netting material attached with staples to the outer face of one row of studs to facilitate the installation of the sprayed fiber from the opposite row. 14. Mineral and Fiber Board* — (Optional, Not Shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing with 2 in. long Type W steel screws, spaced 12 in. OC. The required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board. HOMASOTE CO — Homasote Type 440-32

14A. Mineral and Fiber Board* — (Optional, Not Shown) — For use with Items 14B-14E) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing with minimum 1-3/8 in. long ring shanked nails or 1-1/4 in. long Type W steel screws, spaced 12 in. OC along board edges and 24 in. OC in field of board along intermediate framing. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board. HOMASOTE CO — Homasote Type 440-32

14B. Glass Fiber Insulation — (For use with Item 14A) — 3-1/2 in. thick glass

fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, placed to fill the interior of the wall. See Batts and Blankets (BKNV or BZJZ) categories for names of Classified companies. 14C. Batts and Blankets* — (As an alternate to Item 14B, For use with Item 14A), 3 in. thick mineral wool batts, placed to fill interior of wall, attached to the 3-1/2 in. face of the studs with staples placed 24 in. OC. THERMAFIBER INC — Type SAFB, SAFB FF

14D. Adhesive — (For use with Item 14A) — Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in. wide beads down the length of both vertical edges of Mineral and Fiber Board (Item 14A). 14E. Gypsum Board* — (For use with Item 14A) — 5/8 in. thick, 4 ft wide, applied vertically over Mineral and Fiber Board (Item 14A) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber boards with 1-1/2 in. Type G Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 14A). Secured to outermost studs and bearing plates with 2 in. long Type S screws spaced 8 in. OC. Gypsum Board joints covered with paper tape and joint compound. Screw heads covered with joint compound. Finish Rating 30 Min.

AMERICAN GYPSUM CO — Type AG-C CERTAINTEED GYPSUM INC — Type FRPC, Type C

CGC INC — Types C, IP-X2, IPC-AR CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C NATIONAL GYPSUM CO — Types FSK-C, FSW-C PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-C PANEL REY S A — Type PRC THAI GYPSUM PRODUCTS PCL — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR USG BORAL DRYWALL SFZ LLC — Type C USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

14F. Mineral and Fiber Board — (Optional, Not Shown) — For optional use as an additional layer on one side of wall - Nom 1/2 in. thick, 4 ft wide, square edge fiber boards applied vertically to studs on one side of the wall in between the wood studs and the UL Classified Gypsum Board (Item 3). Fiber boards installed with 1-1/4 in. long, Type W, bugle head, coarse thread gypsum board screws spaced 12 in. OC max, with the last screws spaced 2 in. and 6 in. from edge of board. Gypsum board (Item 3) installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board. BLUE RIDGE FIBERBOARD INC — SoundStop

Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively. Last Updated on 2019-09-17

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PROJECT NO.: 1902

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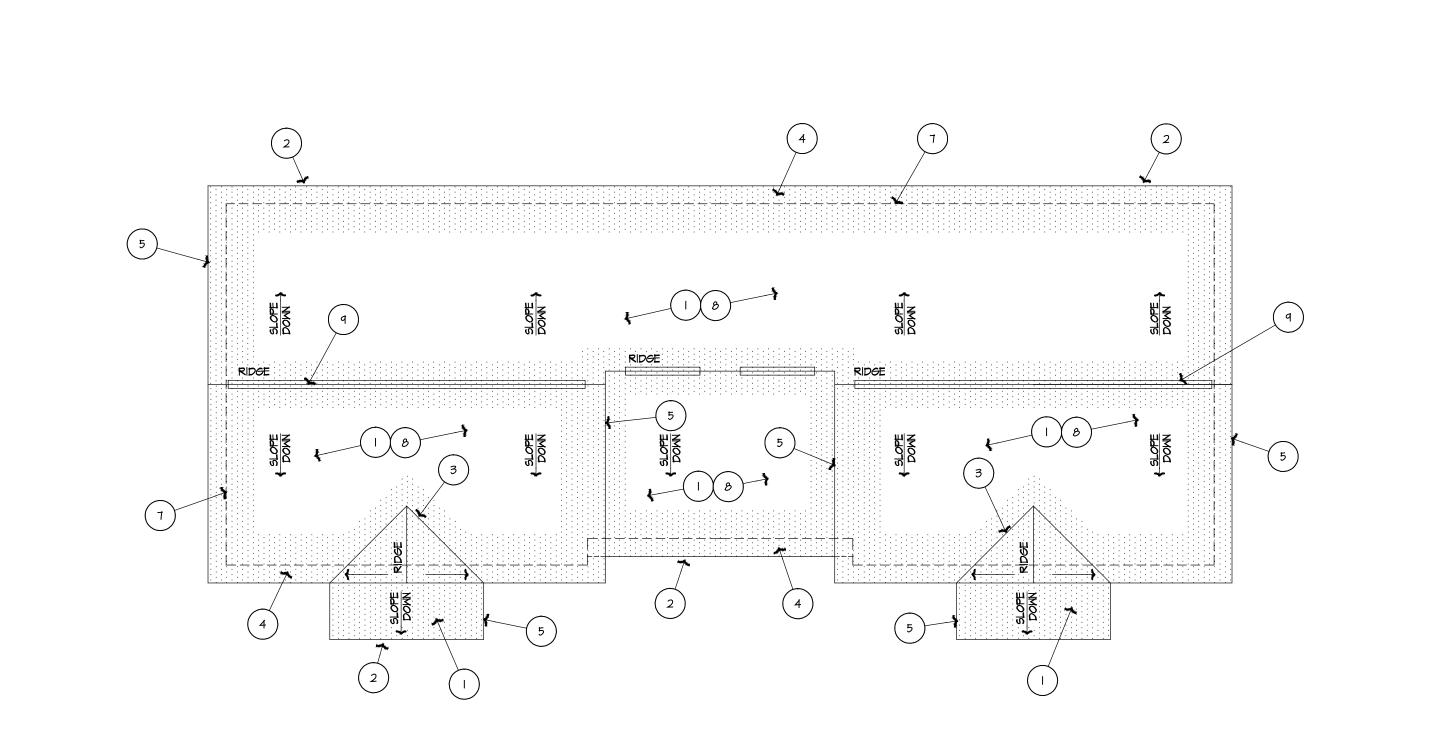
WALL TYPE 'A' & 'B' 1 HR

ISSUE DATE: OCTOBER 18. 2019

REVISIONS:

ARCHITECT - TIMOTHY O.K. WILSON

LICENSE NO. 6082



ROOF PLAN KEYNOTES

- ASPHALT SHINGLE ROOFING SYSTEM. INSTALL I LAYER OF 30# ASPHALT SATURATED FELT UNDERLAYMENT, LAPPED 2" MIN.. INSTALL SELF ADHERING UNDERLAYMENT LEAK BARRIER AT EAVES (ICE DAM PROTECTION) UP ROOF 24" MIN PAST INTERIOR FACE OF EXTERIOR WALL LINE, MANUFACTURED BY "TAMKO" OR APPROVED EQUAL, MOISTURE GUARD PLUS. ALSO INSTALL LEAK BARRIER AT RIDGES, VALLEYS (36" WIDE) & SIDEWALL CONDITIONS. 073113. REFER TO STRUCTURAL FOR SHEATHING INFORMATION.
- 2. PREFINISHED ALUMINUM GUTTER (5" K-STYLE) \$ DOWNSPOUT (2X3). INCLUDE VALLEY CORNER, SPLASH GUARDS, HEADWALL KICKOUT FLASHING, & CONCRETE SPLASH BLOCKS. 076200.
- 3. PREFINISHED SHEETMETAL OPEN-VALLEY FLASHING (U.N.O.), MIN. 24" WIDE. COLOR TO MATCH ROOFING.
- 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. 074600.
- 5. PREFINISHED SHEETMETAL ROOF EDGE FLASHING, TYPICAL AT ROOF ENDS. 076200.
- 6. PREFINISHED SHEETMETAL ROOF DRIP EDGE FLASHING, TYPICAL AT ROOF / GUTTER EDGES. 076200.
- 7. LINE OF EXTERIOR WALL SHOWN BELOW.
- 8. INSIDE ATTIC BELOW, R-40 BLOWN-IN INSULATION. INSTALL RAFTER VENTILATION BAFFLES BETWEEN ALL RAFTERS & TRUSSES. 072100.
- 9. CONTINUOUS RIDGE VENT. 073113

FLOOR PLAN KEYNOTES

- CONCRETE DRIVEWAY. RE: CIVIL 2. CONCRETE PORCH & WALK, PORCH TO HAVE 1:48 SLOPE
- AWAY FROM FOUNDATION WALL. RE: CIVIL 3. CONCRETE PATIO. SLOPE AWAY FROM FOUNDATION WALL AT 1:48 SLOPE. POUR 3 1/2" BELOW FINISH FLOOR TYPICAL. AT ACCESSIBLE UNIT, POUR 1/4" BELOW FINISH
- 4. POUR CONCRETE PATIO 3'-O" 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
- 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 1:48 SLOPE. RE: PLUMBING
- 9. 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.
- IO. PROVIDE \$ INSTALL 45" X 45" CEILING MOUNTED OVERHEAD STORAGE SYSTEM BY HYLOFT OR APPROVED
- II. NOT USED.
- 12. PROVIDE \$ INSTALL 4'X6' METAL STORM SHELTER AS MANUFACTURED BY F5 STORM SHELTERS.
- 13. CEILING HEIGHT 9'-O" 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
- 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. 092900 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
- F. PROVIDE "ORANGE PEEL" TEXTURE ON ALL WALLS &

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ARCHITECTURAL CORPORATION OKLAHOMA CERTIFICATE

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OF AUTHORITY NO. CA 02479

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WALL TYPE NOTES

- 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 TRUSS @ 6" O.C..

WALL TYPES

UL U305 | HOUR UNIT DEMISING WALL 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

UL U305 | HOUR 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

TYPICAL UNIT INTERIOR WALLS (NON-RATED) PATTERN ON PLAN MALL HATCH PATTERN ON PLAT

5/8" GYPSUM BOARD 2X4 WOOD STUDS AT 16" O.C. 5/8" GYPSUM BOARD UNIT INTERIOR 5/8" GYPSUM BOARD 2X6 WOOD STUDS AT 16" O.C. (MEP 5/8" GYPSUM BOARD UNIT INTERIOR

MALL HATCH PATTERN ON PLAN TYPICAL EXTERIOR BEARING

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)

DUPLEX BUILDING FLOOR & ROOF PLAN

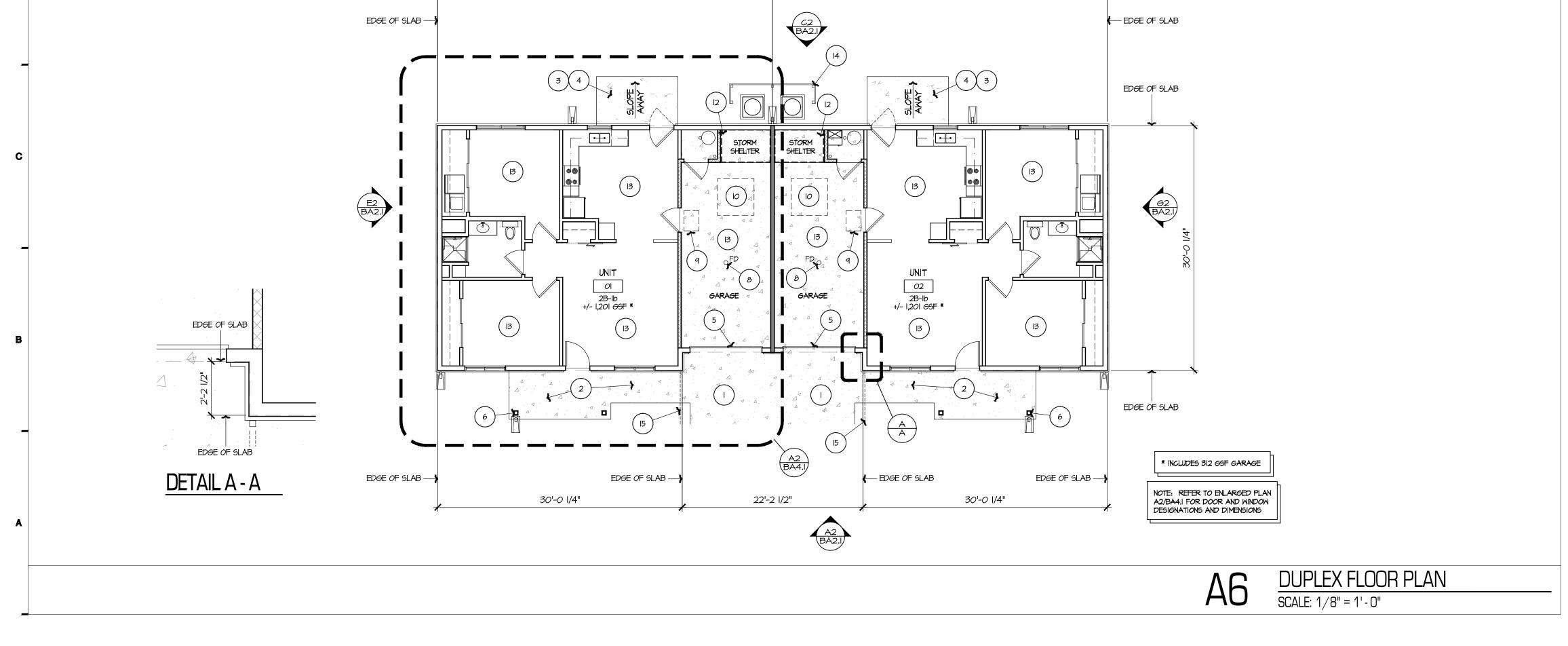
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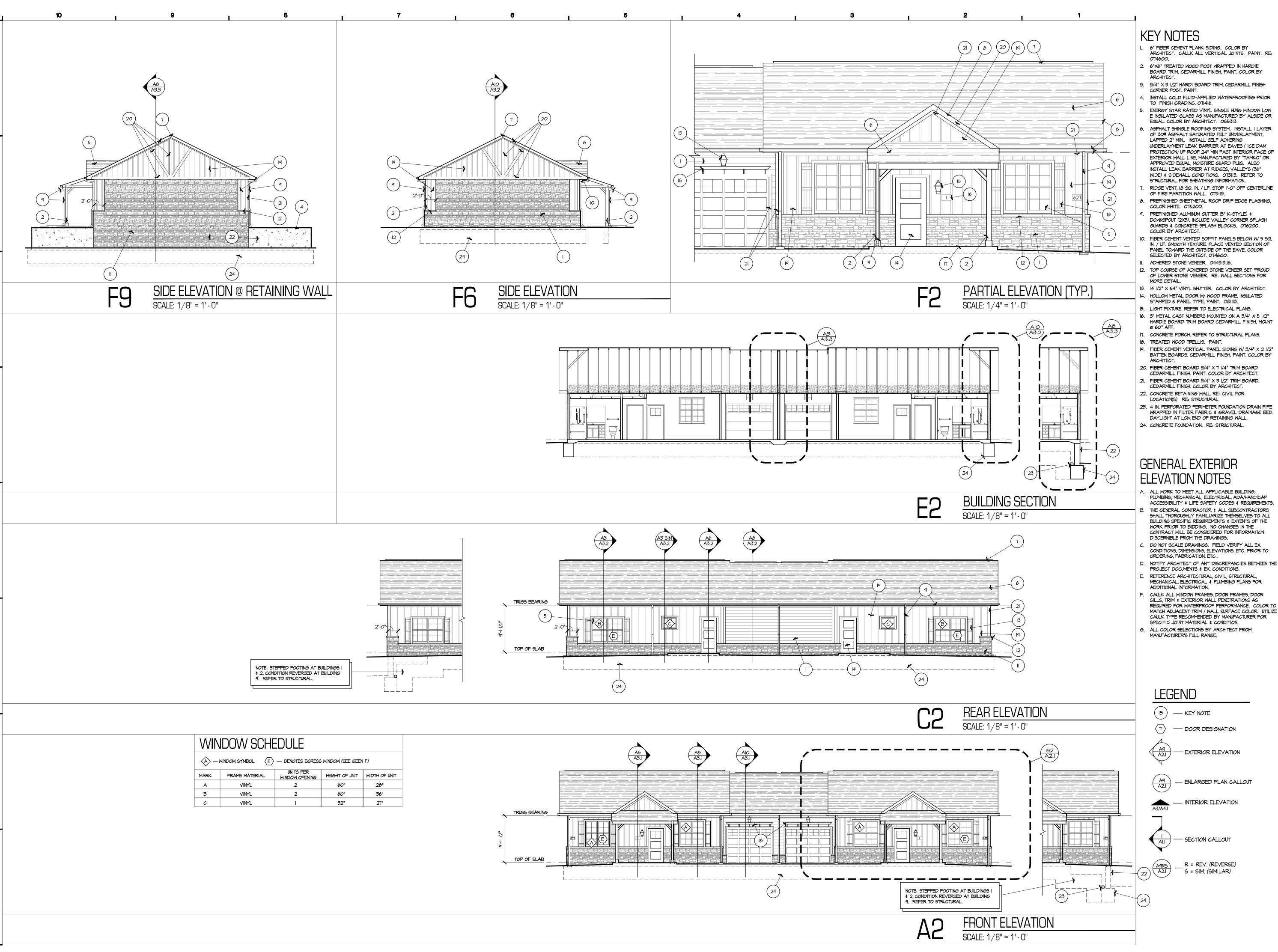


82'-3"

41'-1 1/2"

41'-1 1/2"

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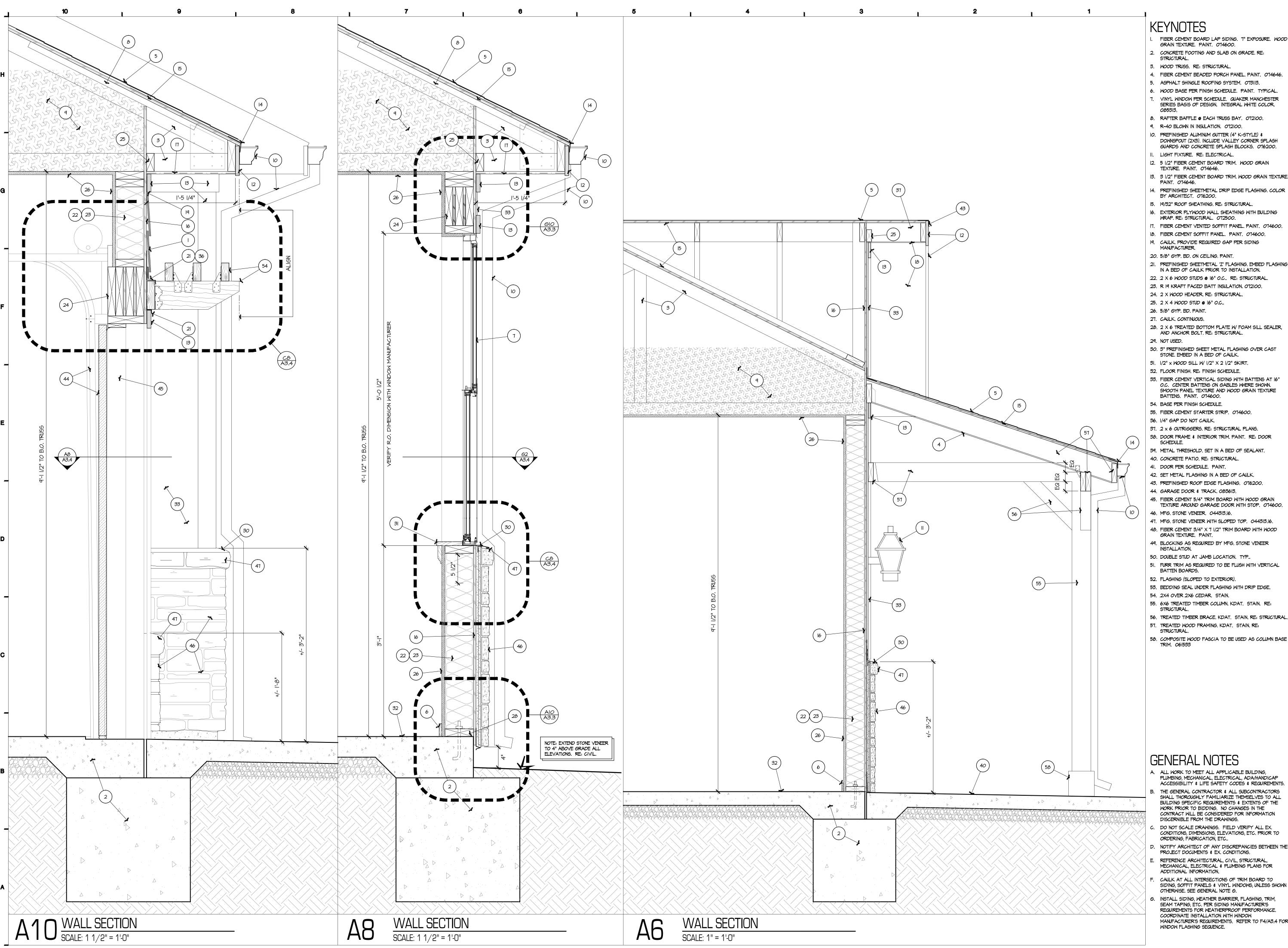
DUPLEX EXTERIOR ELEVAITONS

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- 2. CONCRETE FOOTING AND SLAB ON GRADE. RE:
- 3. WOOD TRUSS. RE: STRUCTURAL.
- 4. FIBER CEMENT BEADED PORCH PANEL, PAINT. 074646.
- 5. ASPHALT SHINGLE ROOFING SYSTEM. 073113. 6. WOOD BASE PER FINISH SCHEDULE. PAINT. TYPICAL.
- 7. VINYL WINDOW PER SCHEDULE. QUAKER MANCHESTER SERIES BASIS OF DESIGN. INTEGRAL WHITE COLOR.
- 8. RAFTER BAFFLE @ EACH TRUSS BAY. 072100.
- 9. R-40 BLOWN IN INSULATION. 072100.
- IO. PREFINISHED ALUMINUM GUTTER (4" K-STYLE) \$ DOWNSPOUT (2X3). INCLUDE VALLEY CORNER SPLASH
- GUARDS AND CONCRETE SPLASH BLOCKS. 016200. II. 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.
- WRAP. RE: STRUCTURAL. 072500. 17. FIBER CEMENT VENTED SOFFIT PANEL. PAINT. 074600.
- 18. FIBER CEMENT SOFFIT PANEL. PAINT. 014600.
- 19. CAULK. PROVIDE REQUIRED GAP PER SIDING MANUFACTURER.
- 20. 5/8" GYP. BD. ON CEILING. PAINT.
- 21. PREFINISHED SHEETMETAL 'Z' FLASHING. EMBED FLASHING IN A BED OF CAULK PRIOR TO INSTALLATION.
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- 27. CAULK. CONTINUOUS.
- 28. 2 X 6 TREATED BOTTOM PLATE W/ FOAM SILL SEALER,
- AND ANCHOR BOLT. RE: STRUCTURAL.
- 30. 3" PREFINISHED SHEET METAL FLASHING OVER CAST STONE. EMBED IN A BED OF CAULK.
- 31. $I/2" \times WOOD$ SILL W/ $I/2" \times 2 I/2"$ SKIRT.
- 32. FLOOR FINISH, RE: FINISH SCHEDULE.
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- 35. FIBER CEMENT STARTER STRIP. 074600. 36. 1/4" GAP DO NOT CAULK.
- 37. 2 x 6 OUTRIGGERS. RE: STRUCTURAL PLANS.
- 39. METAL THRESHOLD. SET IN A BED OF SEALANT.
- 40. CONCRETE PATIO. RE: STRUCTURAL. 41. DOOR PER SCHEDULE. PAINT.
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- 44. GARAGE DOOR \$ TRACK, 083613.
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- 46. MFG. STONE VENEER. 044313.16.
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- 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:
- 58. COMPOSITE WOOD FASCIA TO BE USED AS COLUMN BASE

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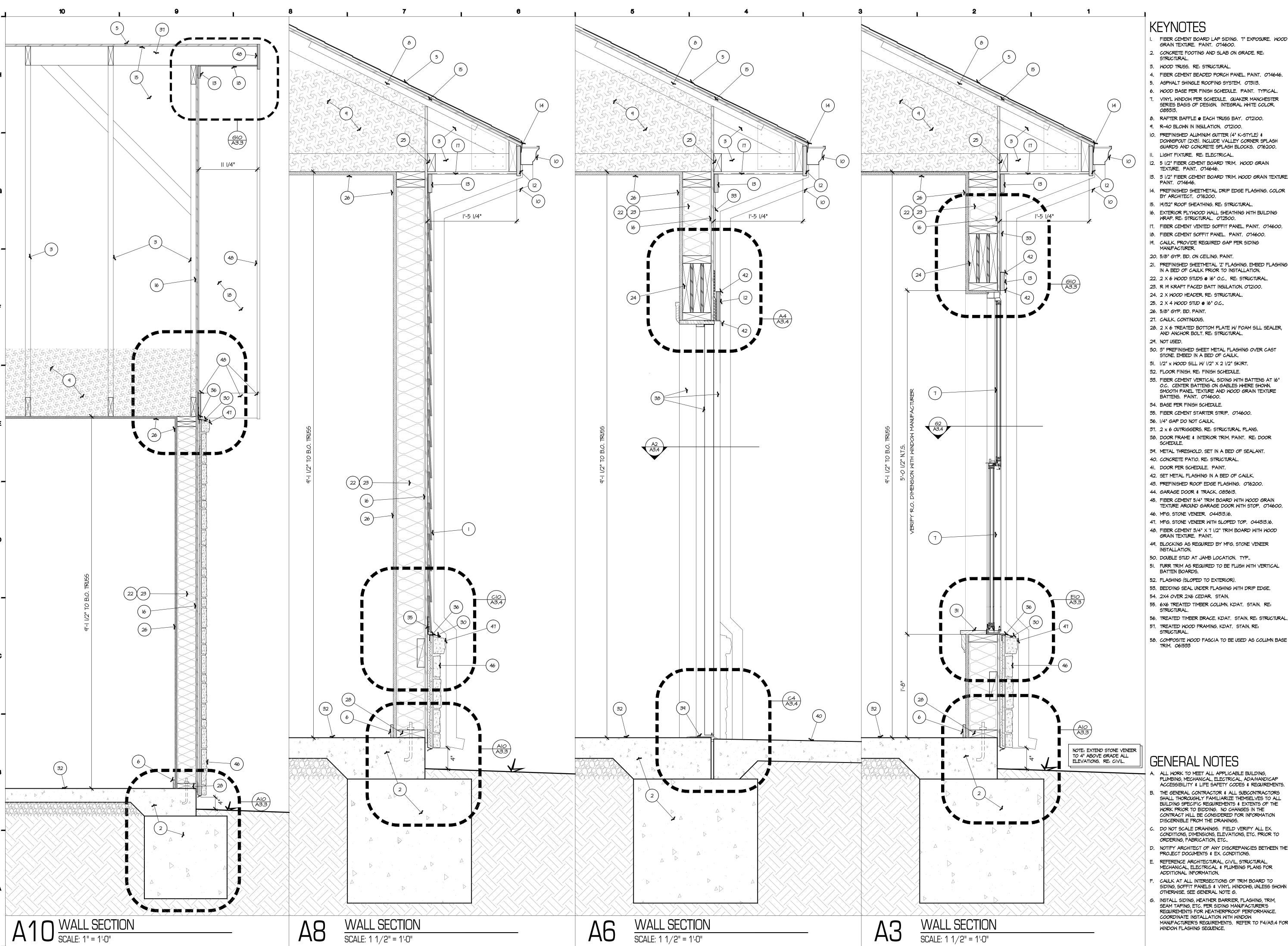
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KEYNOTES

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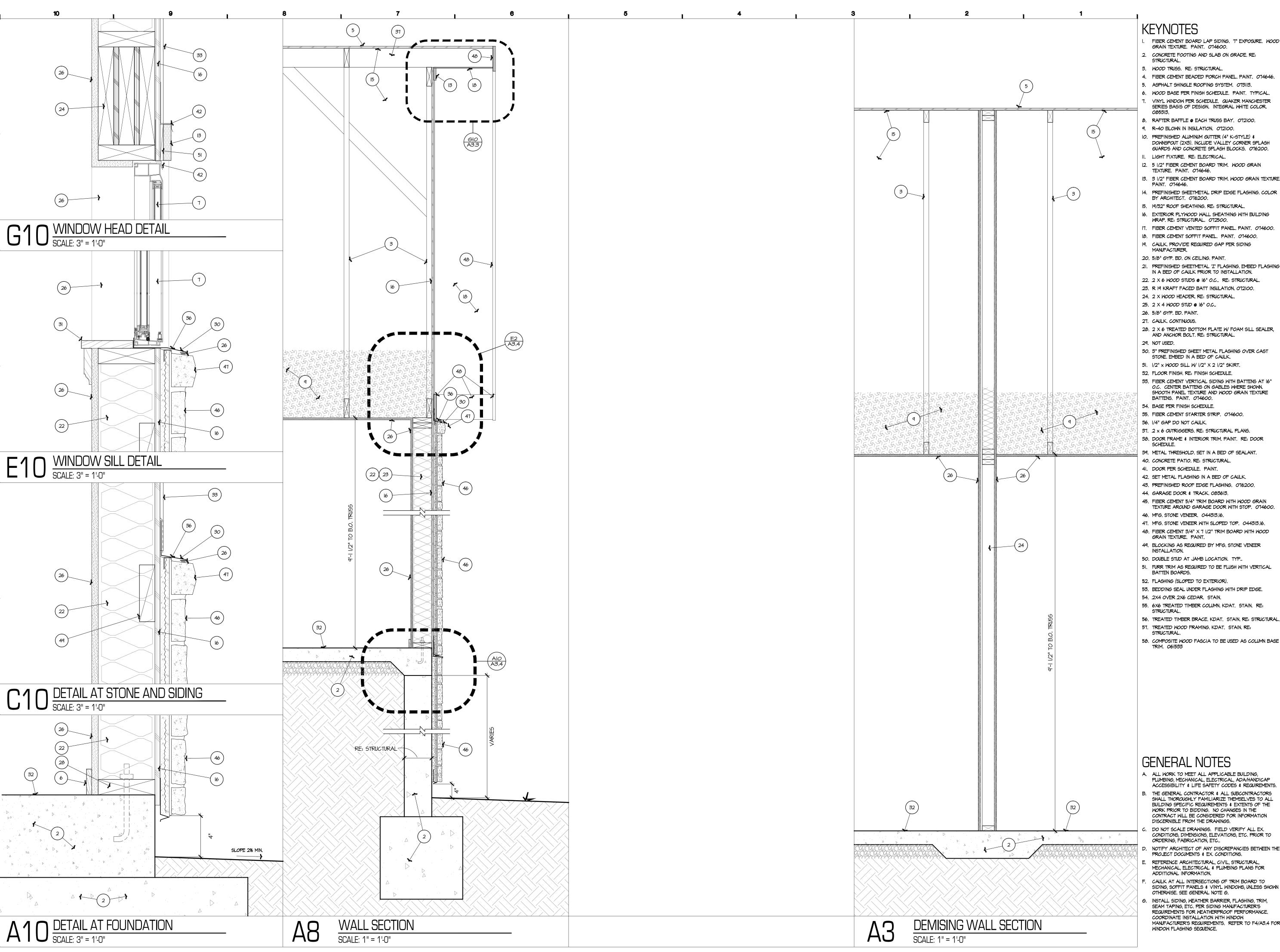
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PROJECT NO.: 1902

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FIBER CEMENT BOARD LAP SIDING. 7" EXPOSURE. WOOD GRAIN TEXTURE. PAINT. 074600. 2. CONCRETE FOOTING AND SLAB ON GRADE. RE: 3. WOOD TRUSS. RE: STRUCTURAL. 4. FIBER CEMENT BEADED PORCH PANEL, PAINT. 074646.

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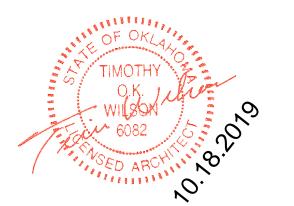
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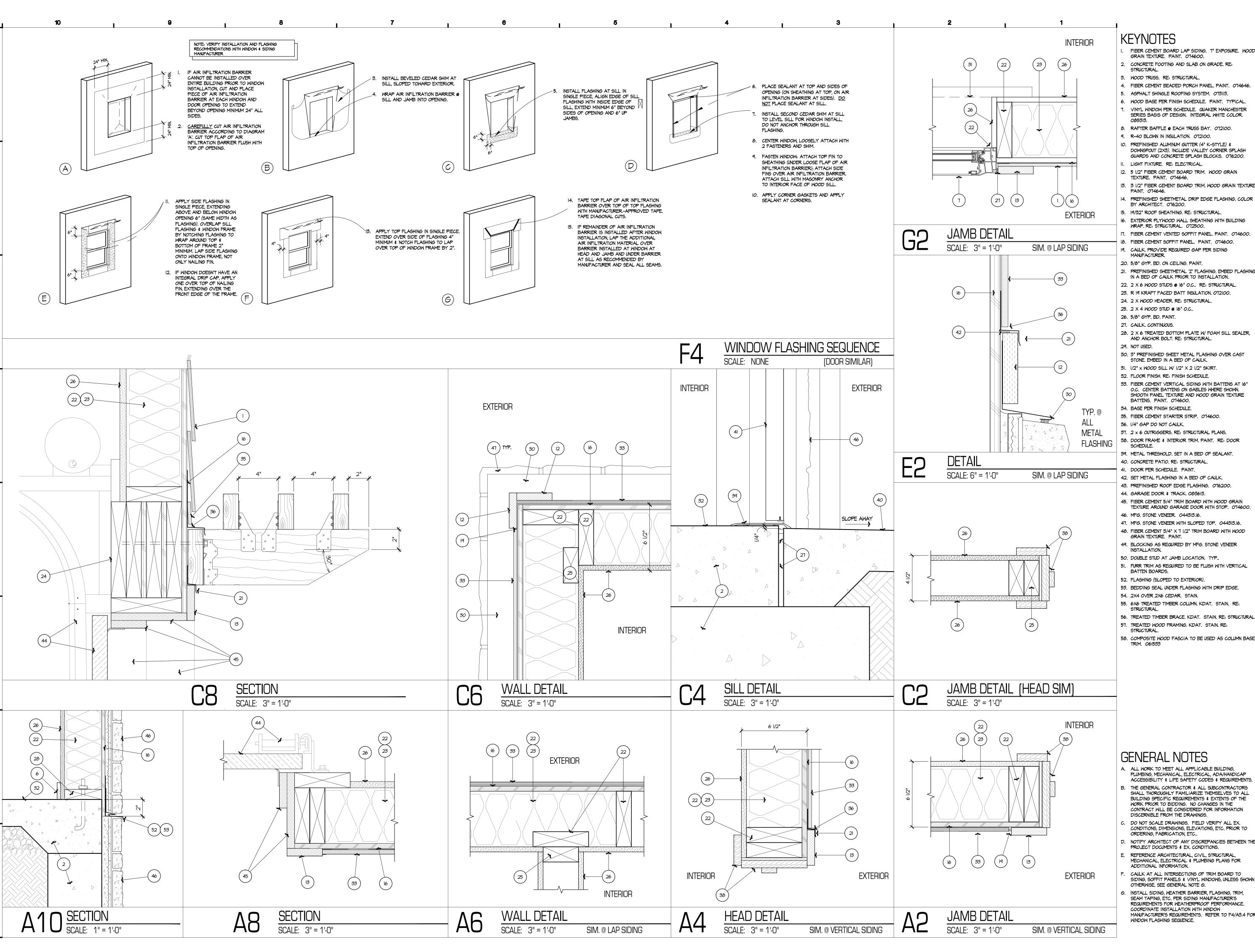
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CONTRACT WILL BE CONSIDERED FOR INFORMATION DISCERNIBLE FROM THE DRAWINGS.

C. DO NOT SCALE DRAWINGS. FIELD VERIFY ALL EX. CONDITIONS, DIMENSIONS, ELEVATIONS, ETC. PRIOR TO ORDERING, FABRICATION, ETC..

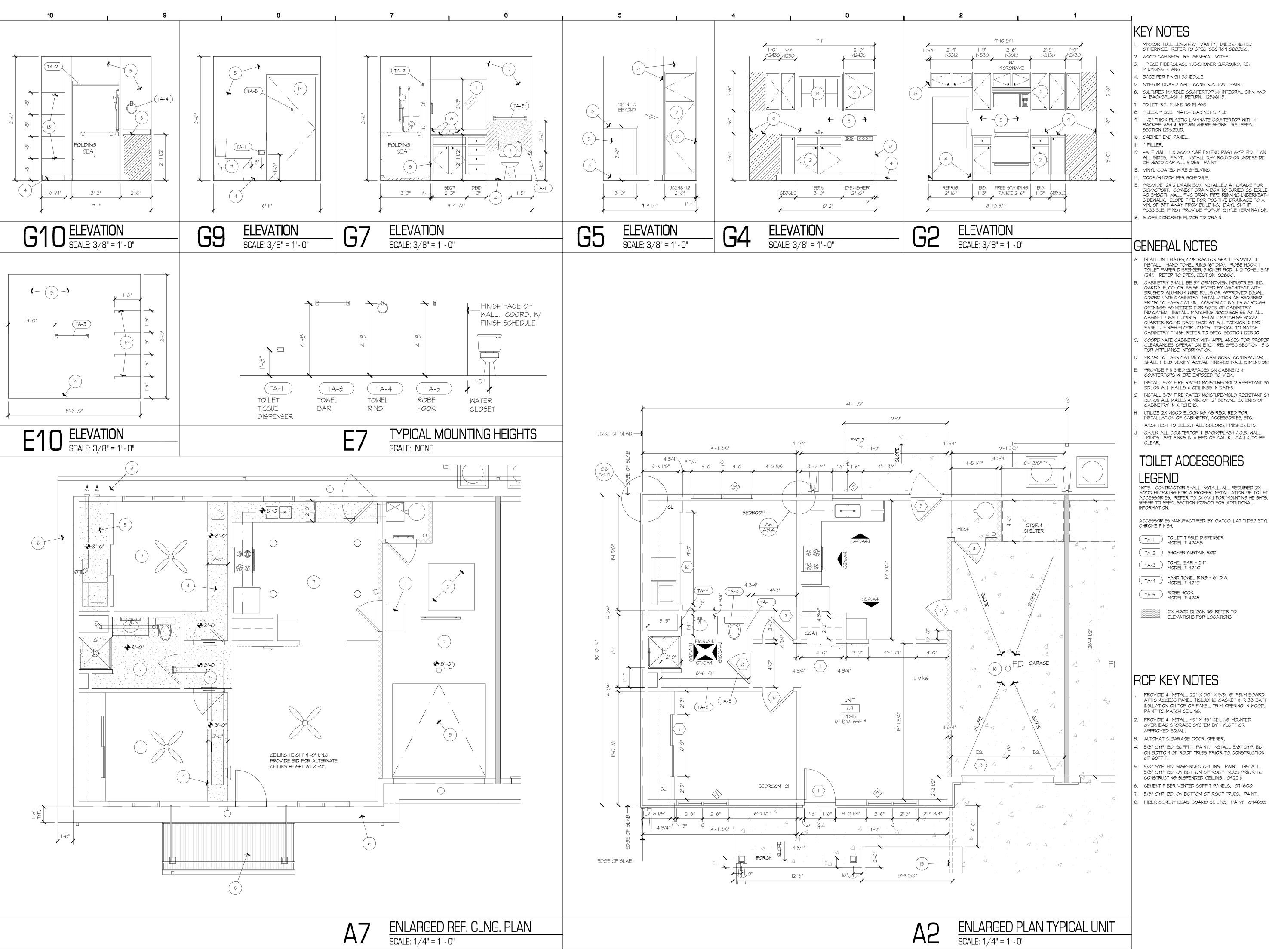
NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN TH

PROJECT DOCUMENTS & EX. CONDITIONS. REFERENCE ARCHITECTURAL, CIVIL, STRUCTURAL,

MECHANICAL, ELECTRICAL & PLUMBING PLANS FOR ADDITIONAL INFORMATION. CAULK AT ALL INTERSECTIONS OF TRIM BOARD TO

OTHERWISE. SEE GENERAL NOTE G. G. INSTALL SIDING, WEATHER BARRIER, FLASHING, TRIM, SEAM TAPING, ETC. PER SIDING MANUFACTURER'S REQUIREMENTS FOR WEATHERPROOF PERFORMANCE. COORDINATE INSTALLATION WITH WINDOW

PROJECT NO.: 1902



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- MIRROR. FULL LENGTH OF VANITY, UNLESS NOTED OTHERWISE. REFER TO SPEC. SECTION 088300.
- . WOOD CABINETS. RE: GENERAL NOTES.
- 3. I PIECE FIBERGLASS TUB/SHOWER SURROUND. RE: PLUMBING PLANS.
- 5. GYPSUM BOARD WALL CONSTRUCTION. PAINT. 6. CULTURED MARBLE COUNTERTOP W INTEGRAL SINK AND
- 1. TOILET. RE: PLUMBING PLANS.
- 8. FILLER PIECE. MATCH CABINET STYLE. 9. | 1/2" THICK PLASTIC LAMINATE COUNTERTOP WITH 4" BACKSPLASH & RETURN WHERE SHOWN. RE: SPEC.
- IO. CABINET END PANEL. I. I" FILLER.
- 12. HALF WALL I X WOOD CAP EXTEND PAST GYP. BD. I" ON ALL SIDES. PAINT. INSTALL 3/4" ROUND ON UNDERSIDE OF WOOD CAP ALL SIDES. PAINT.
- 13. VINYL COATED WIRE SHELVING.
- 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

GENERAL NOTES

- A. IN ALL UNIT BATHS, CONTRACTOR SHALL PROVIDE \$ INSTALL I HAND TOWEL RING (6" DIA), I ROBE HOOK, I 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 SHOE AT ALL TOEKICK & END PANEL / FINISH FLOOR JOINTS. TOEKICK TO MATCH CABINETRY FINISH, REFER TO SPEC. SECTION 123530.
- COORDINATE CABINETRY WITH APPLIANCES FOR PROPER CLEARANCES, OPERATION, ETC.. RE: SPEC SECTION 113100 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 GYF 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

TOILET ACCESSORIES

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, LATITUDE2 STYLE,

TA-I TOILET TISSUE DISPENSER MODEL # 4243B

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
- 5/8" GYP. BD. SUSPENDED CEILING. PAINT. INSTALL
- 5/8" GYP. BD. ON BOTTOM OF ROOF TRUSS PRIOR TO CONSTRUCTING SUSPENDED CEILING. 092216
- 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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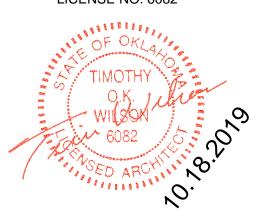
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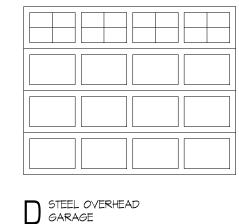


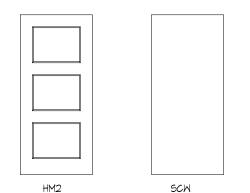
ENLARGED UNIT PLAN & INTERIOR **ELEVATIONS**

ISSUE DATE:

OCTOBER 18, 2019 **REVISIONS:**

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I DEAD BOLT (I" THROW MIN.) W/ INTERIOR THUMBTURN

INSULATED CORE, MOLDED PANEL INSULATED CORE,

SOLID CORE WOOD

E6

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

HOLLOW CORE

→ HOLLOW CORE U MOOD

REMARKS

MOLDED 6 PANEL,

W/ UPPER LITES

- PAINT DOOR, FRAME, \$ TRIM PAINT DOOR, FRAME & INTERIOR TRIM 3. USE 3" SCREWS TO INSTALL DOOR, HINGES & JAMB
- 4. INCLUDE 'Z' 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'-O" 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, 0.30 SHGC. II. 9'-0" X 7'-0" SECTIONAL OVERHEAD GARAGE DOOR, ALUM, PRE-FINISHED. DOOR TO MEET DASMA 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 13.

GENERAL DOOR NOTES HARDWARE SETS

- A. ALL EXTERIOR UNIT ENTRY HARDWARE TO COMMERCIAL GRADE, U.N.O.. RESIDENTIAL BE GRADE HARDWARE IS ACCEPTABLE WITHIN
- B. ENTRY DOOR NON-TURNING HANDLESETS TO BE SCHLAGE 'CENTURY' STYLE W/ 'BOWERY' KNOB, OR APPROVED EQUAL, U.N.O.. ALL INTERIOR LOCKSETS
- TO BE SCHLAGE 'PLYMOUTH' STYLE W/ 'BOWERY' KNOB, OR APPROVED EQUAL, U.N.O.. C. ALL HARDWARE FINISHES TO BE USI5 (619) SATIN NICKEL OR COMPARABLE FINISH, U.N.O.,
- I DEAD BOLT (I" THROW MIN.) W/ INTERIOR THUMBTURN D. KEY ALL EXTERIOR & GARAGE DOORS SAME. . FIELD VERIFY ALL DOORS PRIOR TO ORDERING \$ I DOOR STOP I ALUMINUM THRESHOLD FABRICATION. I WEATHERSTRIPPING PACKAGE F. WOOD TRIM AT INTERIOR DOORS SHALL BE 3/4"X3"
- C. 3 (4") PR SPRING HINGES (ACTUAL). I LOCKSET G. WITHIN THE INTERIOR, UTILIZE BASE STOPS TO I "JAMB BRACE" FULLEST EXTENT PRACTICAL, USING HINGE STOPS (I I DEAD BOLT (I" THROW MIN.) W/ INTERIOR THUMBTURN HIGH & LOW) ONLY WHERE BASE STOPS ARE NOT I I DOOR STOP APPLICABLE. I ALUMINUM THRESHOLD
 - I WEATHERSTRIPPING PACKAGE D. 3 HINGES I PASSAGE SET

A. 3 (4") HINGES

I HANDLESET

I "JAMB BRACE"

I ALUMINUM THRESHOLD

I WEATHERSTRIPPING PACKAGE

I DOOR VIEWER, MIN. 180 DEGREE VIEW

I DOOR STOP

B. 3 (4") HINGES

I HANDLESET

I "JAMB BRACE"

- I DOOR STOP E. 3 HINGES I PRIVACY SET I DOOR STOP
- F. I GARAGE DOOR HARDWARE KIT I TRACK KIT I WEATHERSTRIPPING PACKAGE (I) 3/4-HP GARAGE DOOR OPENER ALL SAFETY SENSORS
- 2 TRANSMITTERS I SURFACE MOUNTED WIRELESS KEYPAD G. SMARTSTAND 6.6 FT. HEAVY DUTY SLIDING BARN DOOR KIT. COLOR BLACK
- I DUMMY SET H I EXTRA HEAVY-DUTY BI-PASS DOOR TRACK SYSTEM W/ METAL DOOR GUIDES I METAL SLIDING DOOR PULL (2" DIA.) PER DOOR DOOR BUMPERS, CLEAR (EACH END OF DOORS)

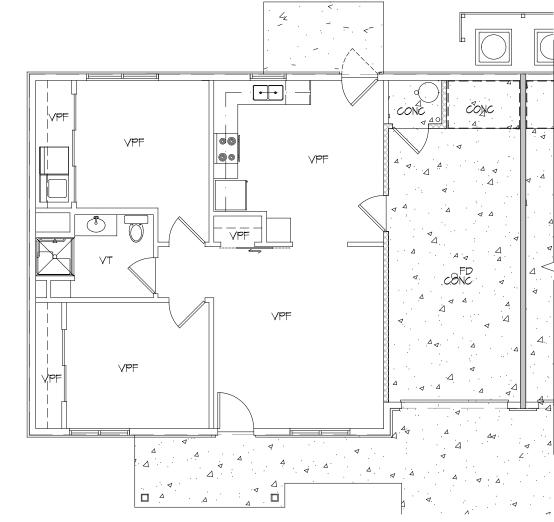
ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR FINISH	BASE		WALLS			CEILING					
			N	E	5	M	N	E	5	M	FINISH	HEIGHT	REMARKS
UNIT I-2	UNIT / ENTRY & HALL	∀ PF	ВІ	ВІ	ВІ	ВІ	PI	PI	PI	PI	PC	9'-0"	
	LIVING	∀ PF	ВІ	BI	BI	ВІ	PI	PI	PI	PI	PC	9'-0"	
	KITCHEN	VT	ВІ	ВІ	ВІ	ВІ	Pl	Pl	PI	PI	PC	9'-0"	
	COAT	∀ PF	ВІ	ВІ	ВІ	ВІ	PI	Pl	PI	PI	PC	9'-0"	
	BEDROOM I	∀ PF	ВІ	ВІ	ВІ	ВІ	PI	PI	PI	PI	PC	9'-0"	
	CLOSET	VT	ВІ	ВІ	ВІ	ВІ	PI	PI	PI	PI	PC	9'-0"	
	BATH	VT	ВІ	BI	BI	ВІ	PI	PI	PI	PI	PC	9'-0"	
	BEDROOM 2	∀ PF	ВІ	BI	BI	ВІ	PI	PI	PI	PI	PC	9'-0"	
	CLOSET	VT	ВІ	BI	BI	ВІ	PI	PI	PI	PI	PC	9'-0"	
	GARAGE	CONC.	ВІ	BI	BI	ВІ	PI	PI	PI	PI	PC	9'-0"	
	MECHANICAL	CONC.	ВІ	ВІ	ВІ	В	PI	PI	PI	PI	PC	9'-0"	

KEY	MATERIAL	MANUFACTURER	PATTERN NO./COLOR	REMARKS	RE: SPEC SECTION
FLOORII	NG			·	·
VPF	VINYL PLANK FLOORING	PATCRAFT	TBD		096516
VT	VINYL TILE	TBD	TBD		
CONC.	CONCRETE	TBD			
BASE					
BI	WOOD BASE	PMD	1/2" X 4" WITH 3/4" QUARTER ROUND SHOE PAINT P	4	
WALLS					·
PI	PAINT - WALLS	SHERWIN WILLIAMS	TO BE DETERMINED		099123
P2	PAINT - TRIM AND DOORS	SHERWIN WILLIAMS	TO BE DETERMINED		099123
P3	PAINT - CEILINGS	SHERWIN WILLIAMS	TO BE DETERMINED		099123
CEILING					·
CGBI	CEILING - GYPSUM BOARD PAINT		PAINT P3		
CASENC	ORK .			,	•
MCI	CABINETS	GRANDVIEW INDUST.	SHAKER / FINISH TO BE DETERMINED	I	123530
PLCI	PLASTIC LAMINATE COUNTERTOPS	FORMICA OR WILSONART	TO BE DETERMINED	2, 3	123623.13

REMARKS - MATERIAL SCHEDULE / ROOM FINISH SCEDULE

- I. CABINET PULLS AMEROCK CORP, STYLE BP52995GIO 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 & CEILINGS, PAINT.
- PROVIDE FLOOR TRANSITIONS AS REQUIRED.
- C. ALL PLUMBING FIXTURES, TOILET ACCESSORIES, HARDWARE, ETC. TO BE USI5 (619) SATIN NICKEL (OR COMPARABLE) FINISH, U.N.O.. CLEAN ALL ELECTRICAL OUTLETS, SWITCHES, ETC. PRIOR TO
- INSTALLATION OF COVERPLATES. E. # OF PAINT COATS: I TINTED PRIME COAT ALL SURFACES TO BE PAINTED, TYPE COMPATIBLE BASED UPON SURFACE & FINISH PAINT TYPE (PREP SURFACES AS NEEDED.) I COAT FINISH PAINT.



ARCHITECTURAL CORPORATION OKLAHOMA CERTIFICATE

TAGES

COT

RIDGE

TIMBER

OF AUTHORITY NO. CA 02479

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



DOOR AND ROOM FINISHSCHEDULES & FINISH FLOOR PLAN

ISSUE DATE: OCTOBER 18, 2019

REVISIONS:

PROJECT NO.: 1902

- 2. The contractor shall coordinate all disciplines, verifying size and location of all openings, whether shown on structural drawings or not, as called for on architectural, mechanical, or electrical drawings. Conflicts, inconsistencies, or other difficulties affecting structural work shall be called to the architect or engineer's attention for direction before
- 3. All design and construction work for this project shall conform to the requirements of the 2015 International Building Code, as amended by the City of Broken Arrow, OK.
- 4. These drawings are for this specific project and no other use is authorized.

- A. All concrete for foundations (walls, grade beams, footings) shall develop minimum ultimate compressive design strength of 3500 psi in 28 days, but not less than 500 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 6 gallons of water per 100 pounds of cement and not over 4 inches
- B. All concrete for interior flat work shall develop minimum ultimate compressive design strength of 4000 psi in 28 days, but not less than 525 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 5.75 gallons of water per 100 pounds of cement and not over 4 inches of slump. Concrete mix shop drawing shall contain testing data proving concrete design mix shrinkage is less than 0.034% at 28 days when tested according to ASTM C157 (air drying method only).
- C. All concrete for exterior flatwork shall have a minimum design compressive strength of 4500 psi in 28 days, with not less than 560 pounds of cement per cubic yard of concrete, not over 5 gallons of water per 100 pounds of cement, with 6% +/- 1% air entrainment, and a maximum of 4 inches of slump.
- D. The preceding minimum mix requirements may have water-reducing admixtures conforming to ASTM C494 added to the mix at manufacturer's dosage rates for improved workability.
- E. The preceding minimum mix requirements may have up to 15% maximum of the cement content replaced with an approved ASTM C618 Class C fly ash, provided the total minimum cementitious content is not
- F. Combined aggregate (coarse plus fine) for all concrete shall be well graded from coarsest to finest with no more than 18 percent and not less than 8 percent retained on an individual sieve, except that less than 8 percent may be retained on coarsest sieve and on No. 50 and finer sieves. Submit this gradation report with the concrete mix design shop drawings.
- G. All interior concrete slabs on grade shall be placed over 15 mil, Class A Vapor Barrier per ASTM E1745 with less than O.OI perms. tested after mandatory conditioning. All joints shall be lapped and sealed per manufacturer's recommendations. All penetrations, as well as damaged vapor barrier material shall also be sealed per manufacturer's recommendation prior to concrete placement. Install barrier per manufacturer recommended details at all discontinuous edges (at interior columns, exterior edge of slab, etc.) to ensure terms of warranty are followed. The vapor barrier shall be placed over free-draining granular material as prescribed by the project soils report.
- H. All concrete is reinforced concrete unless specifically called out as unreinforced. Reinforce all concrete not otherwise shown with same steel as in similar sections or areas. Any details not shown shall be detailed per ACI 315 and meet requirements of ACI 318, current
- 1. Control joints in dirt formed slab to be as shown on plans. Where not shown, limit controlled areas to not more than 144 square feet, or 12 feet on any side. Slab panel side ratio shall not exceed 1 1/2
- J. Contractor shall verify that all concrete inserts, reinforcing and embedded items are correctly located and rigidly secured prior to concrete placement. K. Construction joints in beams, slabs, and grade beams shall occur at
- midspan (middle third) unless noted otherwise. Provide 2 x 4 horizontal keys at construction joints for shear transfer. L. No aluminum items shall be embedded in any concrete.
- 6. Reinforcing Steel:
- A. All reinforcing steel shall conform to the requirements of ASTM A615 or A706 grade 60 steel. Welded plain wire fabric shall be supplied in sheets and conform to the requirements of ASTM A185.
- B. Clear minimum coverage of concrete over reinforcing steel shall be as follows: Concrete placed against earth Formed concrete against earth I-I/2" Beams or Columns
- All coverage shall be nominal bar diameter minimum. . All dowels shall be the same size and spacing as adjoining main bars (splice lap 48 bar diameters or 24" minimum unless noted otherwise).
- D. At corners of all walls, beams, and grade beams supply corner bars (minimum 2'-0" in each direction or 48 bar diameters) in outside face of wall, matching size and spacing of horizontal bars. Where there are no vertical bars in outside face of wall, supply 3 - #4 vertical support bars for corner bars. E. Bars marked continuous and all vertical steel shall be lapped 48
- bar diameters (2'-0" minimum) at splices and embedments, unless shown otherwise. Splice top bars near midspan and splice bottom bars over supports, unless noted otherwise. F. At all holes in concrete walls and slabs, add 2 - #5 bars (opening
- dimension plus 96 diameters long) at each of four sides and add 2 -#5 x 5'-0" diagonally at each of four corners of hole. Openings in 8" thick walls are reinforced similar, but with 1 - #5 instead of 2 - #5, G. Unless otherwise covered on architectural plans or specifications,
- vertical control joints in concrete wall shall be spaced at a maximum of 20'-0" on center and coordinated with the architect. Every other horizontal wall reinforcing bar shall be discontinuous at control joints except heavy top and bottom bars unless noted otherwise. Provide base seal waterstop style number 772 (by Greenstreak Inc. or approved equal) on dirt face side of wall at all walls below grade.
- H. Accessories shall be as specified in latest edition of the ACI Detailing Handbook and the concrete Reinforcing Steel Institute Design Handbook. Maximum accessory spacing shall be 4'-0" on center, and all accessories on exposed surfaces are to have plastic coated feet.
- All slabs and stairs not shown otherwise shall be 6" thick with #4 bars at 12" on center each way. All exterior porches and stoops not otherwise detailed may be constructed in any standard manner, solid or hollow, but must be reinforced with #4 bars at 12" on center each way minimum. Porches shall be doweled to adjacent walls or grade beams with #4 bars at 12" on center, hooked or embedded 48 diameters into both members. Slope porches 1/8" per foot for drainage unless noted otherwise.
- J. Allow 1/2 ton of reinforcing bars #4 or larger to be used as directed in the field for special conditions by the engineer of record (labor for placing same to be included).

7. Post-Installed Anchors:

-S\SWDA 18,2019

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

- AC308. All anchors shall be installed per the anchor manufacturer's written instructions. Mechanical anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES ACOI. All anchors shall be installed per the anchor manufacturer's written
- Adhesive anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES AC58. All anchors shall be installed per the anchor manufacturer's written instructions.
- Anchors used in hollow concrete masonry shall have been tested and qualified in accordance with ICC-ES ACIÓ6 or ICC-ES AC58 as appropriate. All anchors shall be installed per the anchor manufacturer's written instructions with appropriate screen tubes used for adhesives.

10. Foundations:

- A. The soil investigation was prepared by GFAC Engineering. The report number is 62019055 and the telephone number is (913)
- B. Spread footings and grade beams are designed to bear on native soil or engineered fill (placed in accordance with the recommendations of the geotechnical report) capable of safely sustaining 2,000 psf.
- Contractor shall provide for dewatering at excavations from either surface water or seepage.
- D. All foundation excavations shall be inspected by a qualified soil engineer, approved by the architect and/or structural engineer, prior to placement of steel or concrete. This inspection shall be at the owner's expense. All concrete in the structural portion retaining the backfill shall have
- attained its design strength prior to being backfilled. Moisture content in soils beneath building locations should not be allowed to change after footing excavations and after grading for slabs on grade are completed. If subgrade materials become desiccated or softened by water or other conditions, recompact materials to the density and water content specified for engineered fill. Do not place concrete on frozen ground.

Timber and Wood Framing:

- A. Quality and construction of wood framing members and their fasteners for load supporting purposes not otherwise indicated on the drawings shall be in accordance with the 2015 International
- B. All studs and top and bottom plates shall be Douglas Fir No. 2 grade visually graded lumber, with an allowable fiber stress in bending of 900 psi minimum and an elastic modulus of 1,600,000 psi unless noted otherwise. All joist, truss members and headers to be No. 2 grade (min.) (unless noted otherwise). C. All exterior lumber that is to receive a stained finish shall be
- kiln-dried after treated (KDAT) material. Refer to architectural drawings for locations.
- Bridging of stud bearing walls and shear walls shall be solid, matching sheathing joints.
- E. Joist blocking and bridging shall be solid wood or cross bridging of either wood or metal straps. Spacing, in any case, shall not exceed 8'-0".
- Wood members and sheathing shall be fastened with number and size of fasteners not less than that set forth in Table 2304.9.1 of the 2015 International Building Code. Floor sheathing shall be APA rated tongue and groove Sturd-I-Floor, exposure I, glued and nailed with 10d nails or # 10 screws at 6" on center to supports at edges and 12" on center field. Sheathing of shear walls or roof diaphragms shall be edge nailed with 8d common nails at 6" on center and nailed to intermediate framing and/or blocking members with 8d common nails at 12" on center unless otherwise noted on the
- G. Sill plates shall be bolted to concrete slabs with 1/2" diameter bolts at 32" on center (UNO, Re: shearwall sched). Provide plate washers at sill plate anchors for shearwalls per shearwall sched. Plates in direct contact with concrete or masonry shall be treated
- All hangers, ties and connections shown are based on Simpson Strong Tie as the basis of design. Provide Simpson Strong Tie or an approved equal. Joist hangers shall be equal to "LUS" for wood application and "LB" for steel weld-on application. Roof truss ties shall be equal to "H2.5A" and tie the roof truss to the top plate (provide (2) "H2.5A" Diagonally across from each other when uplift load shown in truss shop submittal exceeds 600lbs). Roof girder ties shall be equal to a "LGT2", "LGT3" or "LGT4" tie (dependent on number of plies) and tie the truss airder to the top plate. Provide "H4" at the top of each stud to top track when the top track has
- roof truss attached. Service condition - dry with moisture content at or below 19% in J. Laminated strand lumber (LSL) shall have an allowable flexural
- stress (Fb) of 1,700 psi (reduced by size factor) and an elastic modulus (E) of 1,300,000 psi. K. Laminated veneer lumber (LVL) shall have an allowable flexural
- stress (Fb) of 2,600 psi (reduced by size factor) and an elastic modulus (E) of 1,900,000 psi. L. Parallel Strand Lumber (PSL) shall have an allowable flexural stress (Fb) of 2,900 psi (reduced by size factor) and an elastic modulus (E)
- of 2,000,000 psi, ((E) = 2,200,000 psi for members > 18") M. Pre-engineered wood trusses shall be designed in accordance with the Truss Plate Institute's national design standard for metal-plate connected wood truss construction (ANSI/TPI-I latest edition). Trusses shall be designed and manufactured by an authorized member of the Wood Truss Council of America (WTCA). Truss design shall conform to specified codes, allowable stress increases, deflection limitations and other applicable criteria of the
- governing code. Shop drawings showing complete erection and fabrication details and calculations (including connections) shall be submitted to the project architect / engineer for review prior to fabrication and/or erection. Calculations shall bear the seal of a professional engineer, registered in the state of the project location. Shop drawings shall also be submitted to the local government controlling agency when requested by that
- All trusses shall be securely braced both during erection and permanently, as indicated on the approved truss design drawings and in accordance with TPI's commentary and recommendations for handling, installing and bracing metal-plate connected wood trusses (HIB-91, booklet) and the latest edition of
- The truss manufacturer shall supply all hardware and fasteners for joining truss members together and fastening truss members to their supports. Metal connector plates shall be manufactured by a member of the Wood Truss Council of America (MTCA) and shall be 20 gauge minimum. Connector plates shall meet or exceed ASTM A653, grade 33, with ASTM A924 galvanized
- coating designation 660. Shipment, handling, and erection of trusses shall be by experienced, qualified persons and shall be performed in a manner so as not to endanger life or property. Apparent truss damage shall be reported to the truss manufacturer for evaluation prior to erection. Cutting or alteration of trusses is not permitted.

R. Pre-engineered roof truss design load and deflection criteria are

- Top Chord Dead Load= 15 psf Top Chord Live Load (Typical) = 20 psf plus snow drift Top Chord Live Load (at Recessed Mechanical Wells) = 100 psf to account for mechanical equipment plus snow drift. Refer
- to roof framing plans. Bottom Chord Dead Load= 10 psf Include mechanical equipment loads as required (coordinate locations and sizes with MEP)
- Allowable Total Load Deflection= L/300 Allowable Live Load Deflection= L/360 Construction bracing shall be provided by the contractor as required to keep the building and studs plumb. Structural members shall not be cut for pipes, etc., unless specifically detailed. Notching and boring of stude and top of plates shall
- conform to the provisions of section 2308.9.10 and 2308.9.11 of the IBC. Where top plates or sole plates are cut for pipes, a metal tension tie with minimum 0.058 inches thick and 1/2" inches wide shall be fastened to each plate across and to each side of the opening with not less than (6) 16d nails, in accordance section 2308.9.8 of
- All fasteners for wood to wood connections and wood connectors shall be as indicated in structural drawings or manufacturer literature to achieve full capacity of connector. Alternate fasteners

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

13. Shop Drawing Review:

A. Bob D. Campbell and Company, Inc. will review the General Contractor's (GC) shop drawings and related submittals (as indicated below) with respect to the ability of the detailed work, when complete, to be a properly functioning integral element of the overall structural system designed by Bob D. Campbell and Company,

B. Prior to submittal of a shop drawing or any related material to Bob D. Campbell and Company, Inc., the GC shall: 1) Review each submission for conformance with the means,

methods, techniques, sequences and operations of construction

and safety precautions and programs incidental thereto, all of which are the sole responsibility of the GC. 2) Review and approve each submission. 3) Stamp each submission as approved. C. Bob D. Campbell and Company, Inc. shall assume that no submission

comprises a variation unless the GC advises Bob D. Campbell and Company, Inc. with written documentation. D. Shop drawings and related material (if any) required are indicated below. Should Bob D. Campbell and Company, Inc. require more than

- ten (10) working days to perform the review, Bob D. Campbell and Company, Inc. shall so notify the GC. 1) Concrete mix designs and material certificates including admixtures and compounds applied to the concrete after
- 2) Reinforcing steel shop drawings including erection drawings and bending details. Bar list will not be reviewed for correct
- 3) Miscellaneous anchors shown on the structural drawings. 4) Wood truss design calculations and detailed erection and fabrication drawings. Standard stick framing shop drawings need not be submitted. Bob D. Campbell and Company, Inc. shall review shop drawings and

related materials with comments provided that each submission has

met the above requirements. Bob D. Campbell and Company, Inc.

shall return without comment unrequired material or submissions

without GC approval stamp. 14. Structural Special Inspection:

- A. The structural design for this project is based on completion of special inspections during construction in accordance with section 1704 of the 2015 International Building Code. The owner shall employ one or more qualified special inspectors to provide the
- required special inspections. B. Special Inspections shall be required for the items indicated below. The General Contractor shall provide notification to the inspector when items requiring inspection are ready to be inspected and provide access for those inspections.
- Placement of Concrete 2) Testing of Concrete
- 3) Bolts in Concrete 5) Placement of Reinforcing Steel
- 6) Verification of Soil Bearing Capacities High Strength Bolting
- 8) Post-Installed Anchors 9) Wood shear walls and holdowns
- 10) Mood gravity framing and placement C. The special inspector shall furnish inspection reports to the building official, owner, architect and structural engineer, and any other
- designated person. D. All discrepancies shall be brought to the immediate attention of the contractor for correction, then, if uncorrected, to the proper design authority, building official and structural engineer.
- E. The special inspector shall submit a final signed report stating that the work requiring special inspection was, to the best of the inspector's knowledge, in conformance with the approved plans and specifications and the applicable workmanship provisions of the building code.

Copyright and Disclaimer:

- A. All drawings in the structural set (5-series drawings) are the copyrighted work of Bob D. Campbell and company, Inc. These drawings may not be photographed, traced, or copies in any manner without the written permission of Bob D. Campbell and Company, Inc. Exception: Original drawings may be printed for distribution to the owner, architect, and general contractor for coordination, bidding, and construction. Subcontractors may not reproduce these drawings for any purpose or in any manner.
- B. I, Michael J. Falbe, P.E., registered engineer and a representative of Bob D. Campbell and Company, Inc., do hereby accept professional responsibility as required by the professional registration laws of this state for the structural design drawings consisting of S-series drawings. I hereby disclaim responsibility for all other drawings in the construction document package, they being the responsibility of other design professionals whose seals and signed statements may appear elsewhere in the construction document package.

STRUCTURAL DESIGN CRITERIA:

5

GOVERNING CODE: 2015 International Building Code

<u>DESIGN LIVE LOADS:</u> 20 psf Floors (slab on grade) 100 psf

 Private Rooms & Corridors Serving Them 40 psf Public Rooms & Corridors Serving Them 100 psf

SNOW LOADING: Pg = 20 pst Ground Snow Load Flat Roof Snow Load Pf = 14 psf

 Snow Exposure Factor Snow Load Importance Factor ls = 1.0 Thermal Factor Ct = 1.0

MIND LOADING:

Drift per ASCE/SEI 7-10

Main Wind-force Resisting System (MWFRS): Ultimate Design Wind Speed Vult = 115 mph Vasd = 89 mph

Ce = 1.0

 Nominal Design Wind Speed Risk Category Wind Load Importance Factor lm = 1.0

Mind Exposure Category GCpi = +/-0.18• Internal Pressure Coefficient (Enclosed)

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 ASCÉ/SEI 7-10. Tabulated pressures shall be multiplied by effective area reduction factors, exposure adjustment factors, and topographic factors where applicable.

SEISMIC DESIGN REQUIREMENTS:

Seismic Design Category B

- Risk Category II • Seismic Importance Factor Is = 1.0 • Spectral Response Acceleration Parameters:
- 5ds = 0.108aSdl = 0.08a Site Class

DOUBLE STUDS DOUBLED TOP PLATES DOUBLE TOP PLATE LAPS AND INTERSECTIONS BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE RIM JOIST TO TOP PLATE TOP PLATE LAPS AND INTERSECTIONS CONTINUOUS HEADER, TWO PIECES CEILING JOISTS TO PLATE CONTINUOUS HEADER TO

CONNECTION

JOIST TO SILL OR GIRDER

SOLE PLATE TO JOIST OR

BRIDGING TO JOIST

TOP PLATE TO STUD

STUD TO SOLE PLATE

CEILING JOISTS, LAPS OVER

PARTITIONS

CEILING JOISTS TO

RAFTER TO PLATE

VENEER LUMBER BEAMS

2" PLANKING

PARALLEL RAFTERS

BLOCKING

I" BRACE TO EACH STUD 2- 3" x O.I3I" NAILS-FACE NAIL 2-8d NAILS-FACE NAIL AND PLATE BUILT-UP CORNER AND 16d NAILS AT 24"o.c. MAX. 3" x O.131" NAILS AT 16"0.c. MULTIPLE STUDS 3" x O.131" NAILS AT 24"o.c. FACE NAILED 20d NAILS AT 32"o.c. MAX. TOP AND BOTTOM, STAGGERED ON TOP AND BOTTOM STAGGERED ON OPPOSITE BUILT-UP GIRDER AND OPPSITE SIDES. 3- 3" x O.131" NAILS AT ENDS AND EACH 2-20d NAILS AT ENDS AND EACH BUILT-UP LAMINATED 16d NAILS AT 12"O.C. TOP AND 3" x 0.131" NAILS AT 6"0.c. TOP AND

NAILING SCHEDULE (REFER TO NOTES #1 and #2)

3- 3" x 0.131" NAILS-TOENAIL

3- 3" x O.131" NAILS-END NAIL

3- 3" x O.131" NAILS-END NAIL

4- 3" x O.131" NAILS-TOENAIL OR

FACE NAIL

WALL PANELS

12-3" x O.131" NAILS

EACH EDGE

3-3" x 0.131" NAILS -TOENAIL

3" × 0.131" NAILS AT 6"0.c.-TOENAIL

3- 3" x O.131" NAILS-FACE NAIL

5- 3" x O.131" NAILS-TOENAIL

4- 3" x 0.131" NAILS-TOENAIL

4- 3" x O.131" NAILS-FACE NAIL

4- 3" x O.131" NAILS-FACE NAIL

3- 3" x O.I3I" NAILS-TOENAIL

3" x 0.131" NAILS AT 10"o.c. ALONG

2- 3" x O.131" NAILS-TOENAIL EACH END

4-3" x 0.131" NAILS AT 16"o.c.-BRACED

3" x O.131" NAILS AT 8"o.c.-FACE NAIL

3" x O.131" NAILS AT 12"o.c.-FACE NAIL

3" x O.131" NAILS AT 8"o.c.-TYPICAL

ATTACHMENTS (REF NOTE #3 and #4)

3-8d NAILS-TOENAIL

FACE NAILING

FACE NAIL

FACE NAIL

8-16d NAILS

2-8d NAILS-TOENAIL EACH END

16d BOX NAILSZ AT 16"o.c. MAX.

16d BOX NAILS AT 24"o.c. MAX.

16d BOX NAILS AT 16"O.C. MAX.

8d NAILS AT 6"o.c. MAX.-TOENAIL

3-16d BOX NAILS AT 16"o.c.

BRACED WALL PANEL

2-16d NAILS-END NAIL

2-16d NAILS-END NAIL

3-8d NAILS-TOENAIL

2-16d NAILS-FACE NAIL

3-8d NAILS-TOENAIL

4-8d NAILS-TOENAIL

3-16d NAILS-FACE NAIL

3-16d NAILS-FACE NAIL

3-8d NAILS-TOENAIL

BOTTOM ALONG EDGE

16d NAILS AT EACH SUPPORT

16d NAILS AT 16"O.C. MAX.

ALONG EACH EDGE-TOENAIL

4-8d NAILS-TOENAIL OR

I.) ALL NAILS SHALL BE AS NOTED UNLESS OTHERWISE SPECIFIED ON STRUCTURAL DRAWINGS OR

4- 3" x O.131" NAILS AT EACH SUPPORT

BOTTOM ALONG EDGE

ALTERNATE PROVIDED BY ENGINEER IN WRITING. 2.) CONDITIONS NOT SPECIFIED SHALL BE IN ACCORDANCE WITH CURRENT INTERNATIONAL BUILDING CODE.

3.) NAILING DESIGNATION: - DIAMETER IN INCHES - NAIL LENGTH

- QUANITY 4.) ALL NAILS NOTED AS 8d, IOd, I6d, 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-IA)	(3) 2x10's w/ (2) ½" PLYWOOD SPACERS	(I) 2×6	(2) 2×6	RE: SECTIONS & IA ON SO.2
B-IB	(3) 9 ¼" DEEP LVL's	(2) 2×6	(2) 2×6	RE: SECTIONS & IA ON SO.2

STUD BEARII	NG WALL SCHEDULE
IST FLOOR EXTERIOR WALLS	2×6 @16"0c
IST FLOOR INTERIOR WALLS	2×6 @16"0c

PROVIDE JAMB STUDS AT WALL OPENINGS PER HEADER

SCHEDULE ON THIS SHEET. 2. UNLESS NOTED OTHERWISE, PROVIDE STUD PACKS CONSISTING OF ONE STUD FOR EACH PLY OF GIRDER TRUSSES OR (3) BEARING STUDS MINIMUM AT ALL GIRDER TRUSS BEARING LOCATIONS. REFER TO SECTION 5/50.2 FOR FASTENING OF STUD PACKS.

MALL SHEATHING SCHEDULE			
LOCATION	CHE A THINK	FASTENER	SPACING
LOCATION	SHEATHING	PANEL EDGE	FIELD
EXTERIOR WALL (EXTERIOR SIDE) U.N.O.	½" <i>0</i> 5B	8d COMMON NAILS @6"oc	8d COMMON NAILS @12"oc
EXTERIOR WALL (INTERIOR SIDE) U.N.O.	%" GYPSUM BOARD	No. 6 TYPE S OR W 13/4" LONG DRYWALL SCREWS @4"OC	No. 6 TYPE S OR W 13/4" LONG DRYWALL SCREWS @7"oc
INTERIOR WALL U.N.O.	物" GYPSUM BOARD	No. 6 TYPE S OR W 13/4" LONG DRYWALL SCREWS @4"oc	No. 6 TYPE S OR W 13/4" LONG DRYWALL SCREWS @7"oc

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

ROOF DECK SCHEDULE				
DECKING	FASTENER SPACING			
	PANEL EDGE	FIELD		
19/32" <i>0</i> 5B	8d COMMON NAILS @6"oc	8d COMMON NAILS @12"oc		
	DECKING	DECKING PANEL EDGE 19/32" OSB 8d COMMON		



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RANGE

COTTAGES

RIDGE

TIMBER

CTION (EN ARI

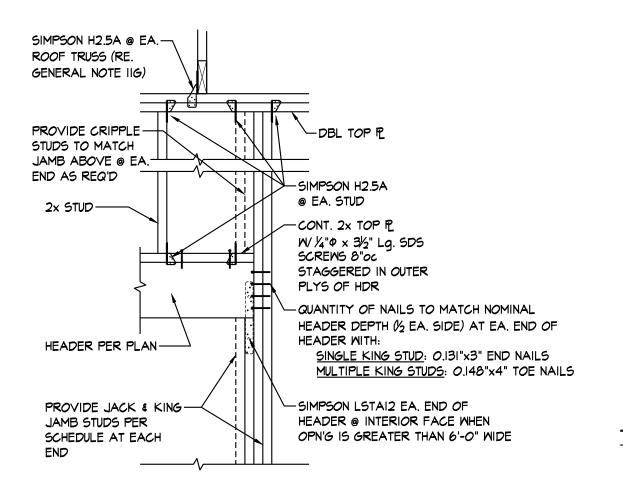
SEAL ENGINEER - MICHAEL J. FALBE LICENSE NO. 20065

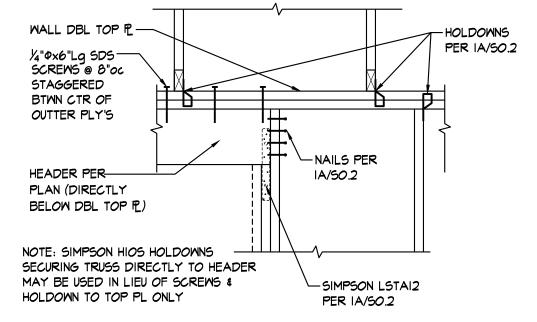


GENERAL NOTES & SCHEDULES

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W/ HEADER DIRECTLY BELOW DOUBLE TOP PLATE

, POINT STUDS (TYP) TYPICAL TOP PLATE SPLICE TYPICAL HEADER DEATIL AT ROOF TRUSS BEARING LOCATIONS SECTION (2)

SPLICE

POINT

4'-0" MIN (TYP)

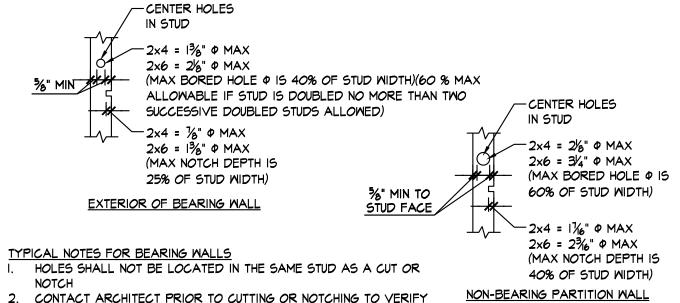
-SPLICE

PLATES

34" = 1'-0" 50.2

(8) 16d @ 6"oc EA ─

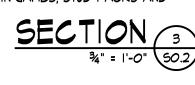
SIDE OF SPLICE TYP

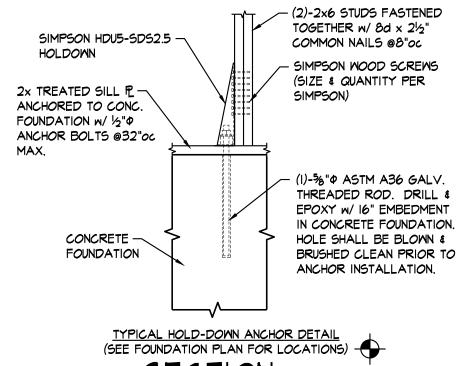


2. CONTACT ARCHITECT PRIOR TO CUTTING OR NOTCHING TO VERIFY SIZE AND LOCATION IF HOLES GREATER THAN 20% STUD WIDTH OR NOTCHES GREATER THAN 10% STUD WIDTH ARE REQUIRED IN

TWO OR MORE CONSECUTIVE STUDS

3. NOTCHES OR HOLES NOT PERMITTED IN JAMBS, STUD PACKS AND AT ENDS OF SHEARWALLS





3₄" = 1'-0" 50.2



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RIDGE

TIMBER

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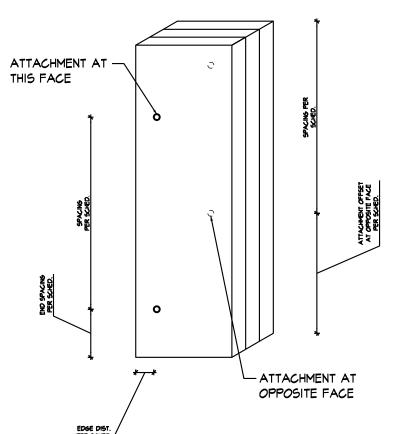
TYPICAL SECTIONS

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BUILT-UP S	TUD PACK COLUMN ATTACHMENT SCHEDULE
2-PLY MEMBERS	IOd NAILS AT 12"0c, 1" FROM EDGE, W/ OPPOSITE EDGE NAILED FROM OPPOSITE SIDE OFFSET 6", @ 12"0c W/ FIRST NAIL 2" FROM EA. END
3-PLY MEMBERS	20d NAILS AT 16"0c, I 1/2" FROM EDGE W/ OPPOSITE EDGE NAILED FROM OPPOSITE SIDE OFFSET 8", @ 16"0c W/ FIRST NAIL 3" FROM EA. END
4-PLY MEMBERS	1/4"\$\phix5" SIMPSON SDS SCREWS AT 16"oc, 1 1/2" FROM EDGE W/ OPPOSITE EDGE SCREWED FROM OPPOSITE SIDE OFFSET \$", @ 16"oc W/ FIRST SCREW 4" FROM EA. END
5-PLY MEMBERS	1/4"\$\phix6" SIMPSON SDS SCREWS AT 12"oc, 1 1/2" FROM EDGE W/ OPPOSITE EDGE SCREWED FROM OPPOSITE SIDE OFFSET 6", @ 12"oc W/ FIRST SCREW 4" FROM EA. END



1 9 1 8 1 7 1 6 1 5 1

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TIMBER RIDGE

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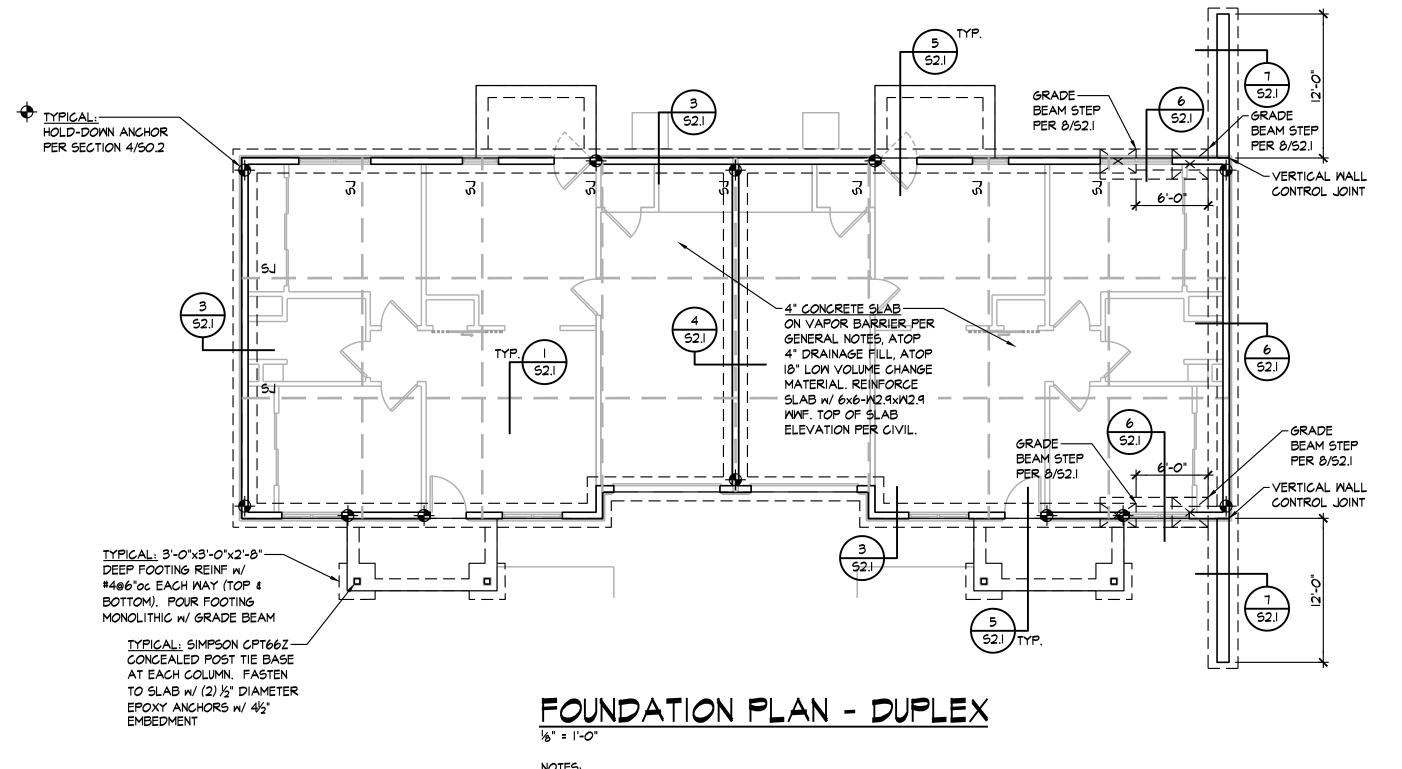


DUPLEX BUILDING STRUCTURAL **PLANS**

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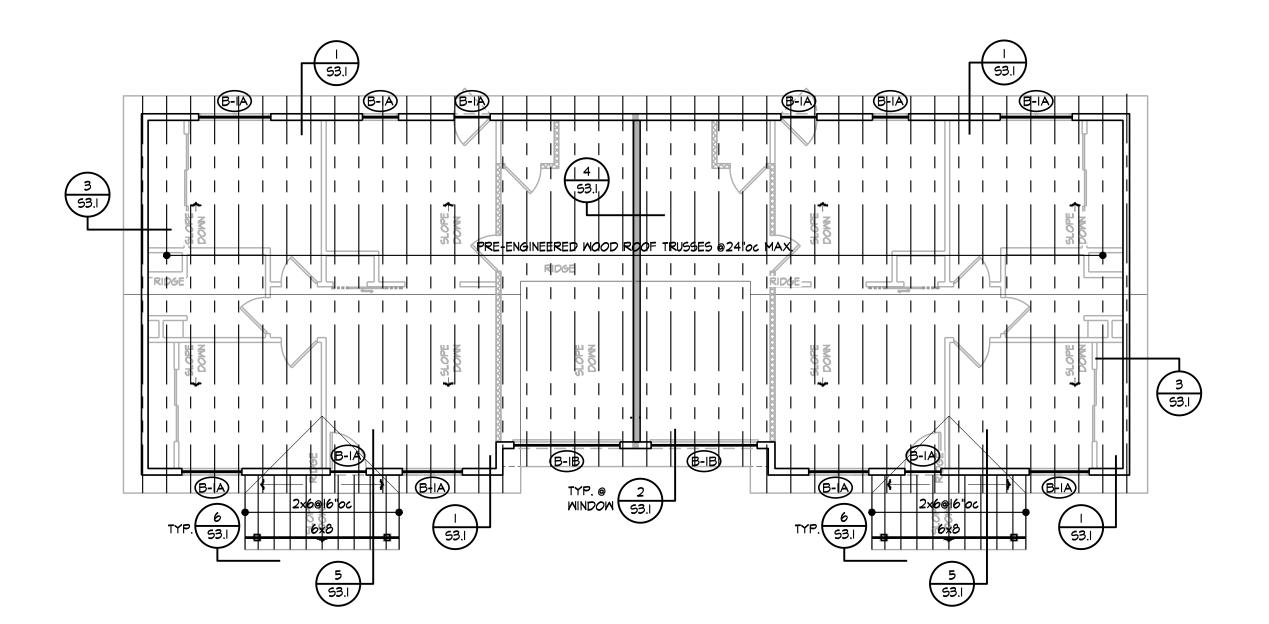


NOTES:

I. REFER TO GENERAL NOTES ON SHEET SO.I.

2. VERIFY ALL DIMENSIONS & ELEVATIONS W/ ARCHITECTURAL DRAWINGS.

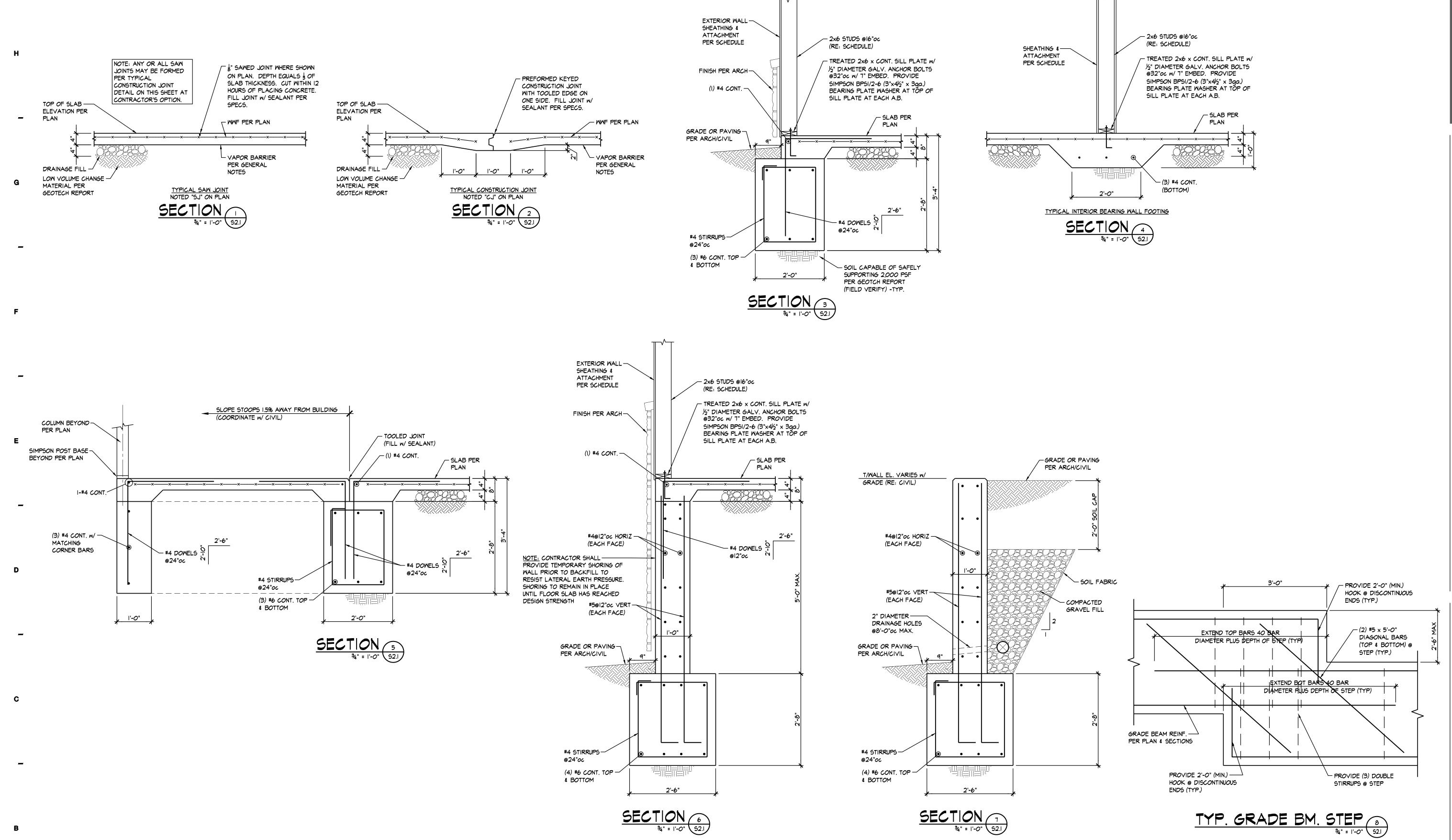
3. INDICATES SIMPSON HOLD-DOWN ANCHOR PER SECTION 4/50.2.



ROOF FRAMING PLAN - DUPLEX

NOTES: I. REFER TO GENERAL NOTES ON SHEET SO.I.

- 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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SECTIONS

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COLUMN PER-

BEAM PER

4x6

½" DIAMETER LAG

SCREW w/ 3½" MIN.

EMBEDMENT

(COUNTER-SINK)

EMBEDMENT

(COUNTER-SINK)

-PRE-ENGINEERED

ROOF TRUSS

- SIMPSON H2.5A TIE AT

─ SIMPSON H2.5A TIE AT EACH

STUD ~ 2x6 @16"oc (RE: SCHEDULE)

EACH TRUSS (2 TIES AT EACH GIRDER TRUSS)

(2) 2×6 CONT.—

EXTERIOR WALL -

SHEATHING PER SCHEDULE

FASCIA BOARD

R:\Q-S\SWDA Proj Oct 18,2019 7:51αm BEAM PER

PLAN



- ROOF DECK

∕- 2x6 @16"oc

`—(2) 2x6 CONT.

~ 2×6 @16"oc

PER SCHEDULE

— PRE-ENGINEERED ROOF TRUSS PER

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TIMBER RIDGE COTTAGES

SECTION 8, TOWNSHIP 18, RANGE 15

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SECTIONS

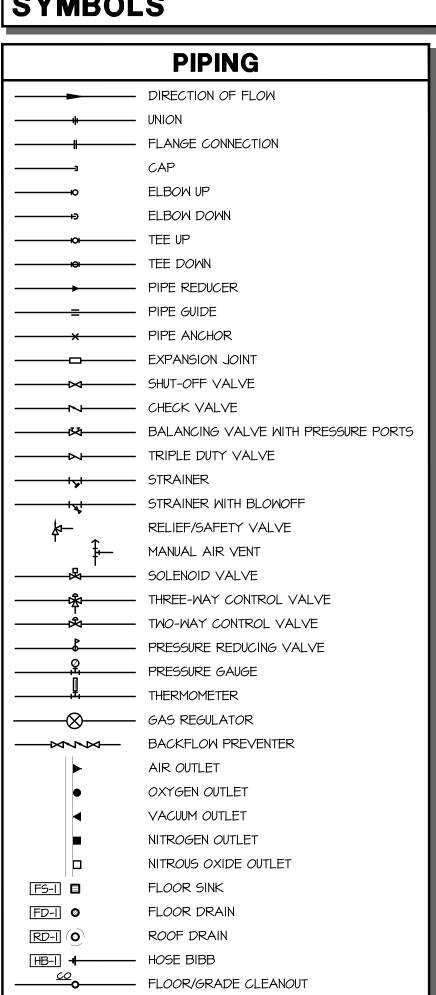
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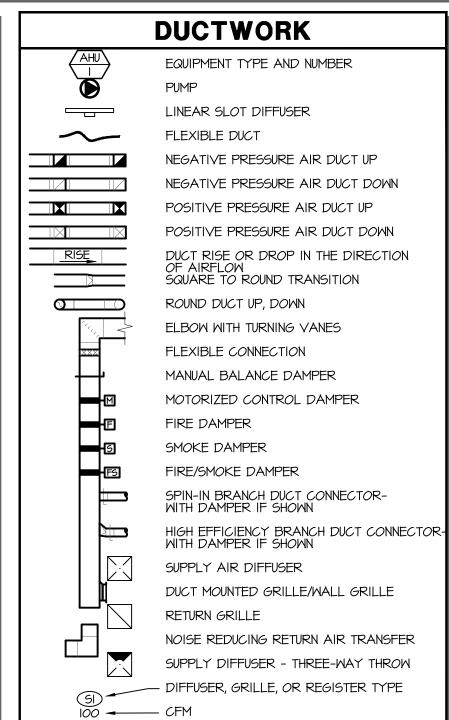
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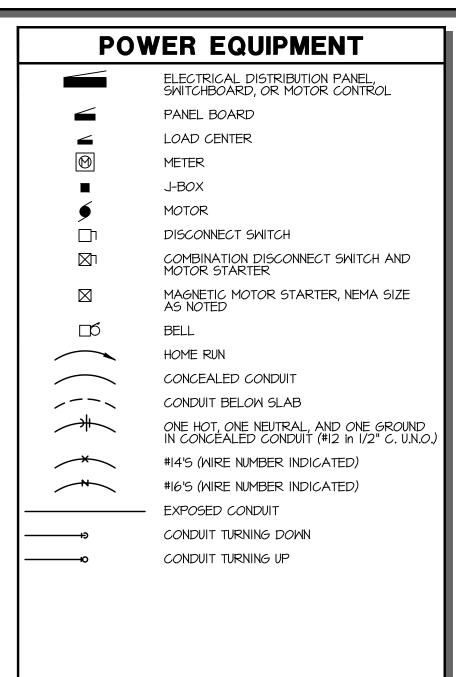
B S3.1



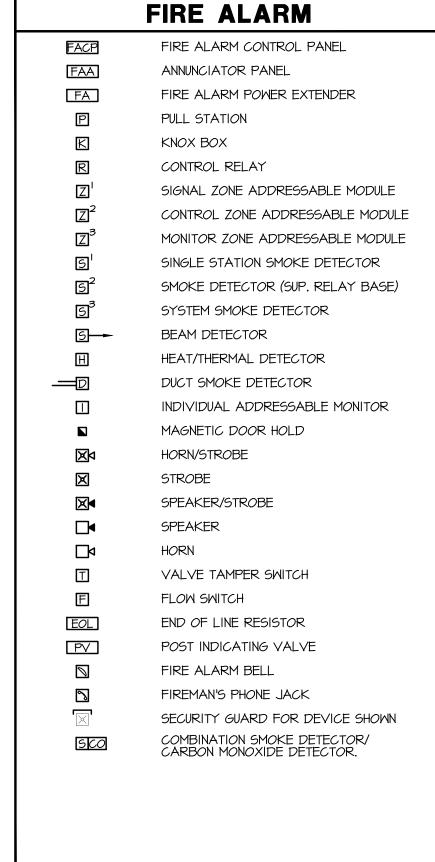


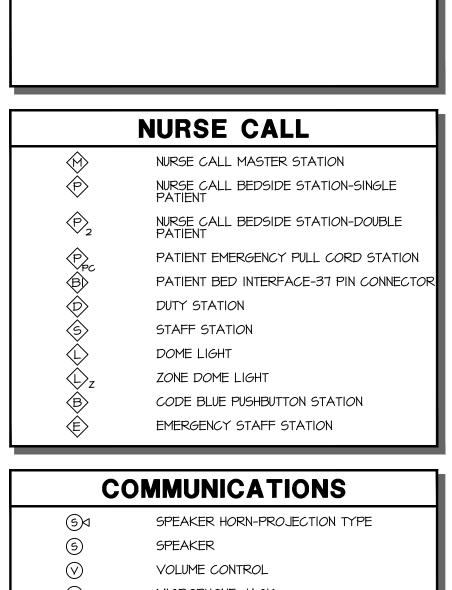
CONNECTION SIZE

8



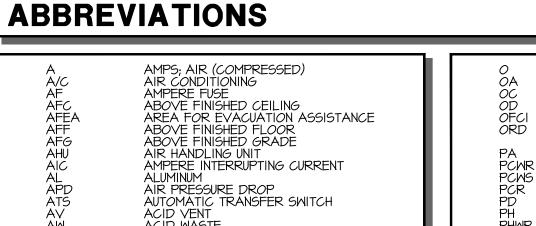
5





 SPEAKER VOLUME CONTROL MICROPHONE JACK COMBINATION SPEAKER/CLOCK SYSTEM CLOCK
MICROPHONE JACK COMBINATION SPEAKER/CLOCK
© COMBINATION SPEAKER/CLOCK
© SYSTEM CLOCK
ET ELAPSED TIME CLOCK
© INTERCOM
POWER SUPPLY
(A) AMPLIFIER

	SECURITY
<u></u> □	CLOSED CIRCUIT TELEVISION CAMERA
(EL)	ELECTRIC DOOR LOCK
⊕ M	DOOR MONITOR
(R)	CARD READER
€ B	GLASS BREAK
(RE)	REQUEST TO EXIT BUTTON
(SM)	SECURITY MONITOR
(PB) ^P	PANIC BUTTON (D=DESK, W=WALL, F=FLOC
(KP)	KEY PAD



BLOWER COIL UNIT BACKFLOW PREVENTER BRAKE HORSEPOWER BELOW FINISHED FLOOR BOTTOM OF PIPE OTTOM OF STRUCTURE BRITISH THERMAL UNITS PER HOUR CURRENT TRANSFORMER CABLE TELEVISION SYSTEM

AMERICAN WIRE GAUGE

3

AMG

CTS

CWR

HSTAT

HTR HWR HWS

IN. MC

KMH

LWB

MLO MPC MPS MS MSB MTD

MAU

CONSTANT AIR VOLUME LOSED CIRCUIT TELEVISION CONTRACTOR FURNISHED, CONTRACTOR CUBIC FEET PER HOUR CUBIC FEET PER MINUTE LEANOUT, CARBON MONOXIDE COOLING TOWER

COOLING TOWER SUPPLY CABINET UNIT HEATER CHILLED WATER RETURN CHILLED WATER SUPPLY DIRECT DIGITAL CONTROL DRAINAGE FIXTURE UNITS

DOUBLE-POLE, DOUBLE-THROW DOUBLE-POLE, SINGLE-THROW DIRECT EXPANSION NTERING AIR TEMPERATURE ECTRICAL CONTRACTOR

XPANSION JOINT EARLY SUPPRESSION FAST RESPONSE EXTÉRNAL STATIC PRESSURE EXISTING TO REMAIN ENTERING WET BULB ELECTRIC WATER COOLER FIRE ALARM ANNUNCIATOR FIRE ALARM CONTROL PANEL

FURNISHED BY OTHERS FIRE DAMPER, FLOOR DRAIN FINISHED GRADE CLEANOUT FIRE PROTECTION CONTRACTOR

FULL VOLTAGE, NON-REVERSING NATURAL GAS GENERAL CONTRACTOR GROUND FAULT INTERRUPTER GALLONS PER HOUR GALLONS PER MINUTE GREASE WASTE

HOT/CHILLED WATER RETURN HOT/CHILLED WATER SUPPLY HEAD, HUB DRAIN HAND-OFF-AUTOMATIC HIGH PRESSURE CONDENSATE
HEAT PUMP RETURN
HEAT PUMP SUPPLY, HIGH PRESSURE STEAM,
HIGH PRESSURE SODIUM HUMIDISTAT

HEATER HOT WATER RETURN HOT WATER SUPPLY INSIDE DIAMETER
INVERT ELEVATION
ISOLATED GROUND
INCHES OF WATER COLUMN INCANDESCENT

1000 CIRCULAR MILS KILOVOLT KILOVOLT-AMPS KILOVOLT-AMPS REACTIVE KILOWATT KILOWATT-HOUR LAVATORY

LEAVING AIR TEMPERATURE LEAVING DRY BULB LOW PRESSURE STEAM CONDENSATE LIQUIFIED PETROLEUM GAS (PROPANE) LOW PRESSURE STEAM LOCKED ROTOR AMPS LEAVING WET BULB LEAVING WATER TEMPERATURE 1000 BTU PER HOUR

MECHANICAL CONTRACTOR MINIMUM CIRCUIT AMPACITY MOTOR CONTROL CENTER 1000 CIRCULAR MILS MOTORIZED DAMPER MAIN DISTRIBUTION PANEL MANUFACTURER MANHOLE/METAL HALIDE MAIN LUGS ONLY MEDIUM PRESSURE CONDENSATE MEDIUM PRESSURE STEAM

MAKE-UP AIR UNIT NOT APPLICABLE NON-FREEZE WALL HYDRANT NOT IN CONTRACT NITROUS OXIDE NORMALLY OPEN, NORMALLY CLOSED

MAIN SWITCHBOARD

ARCHITECTS OWNER FURNISHED, CONTRACTOR INSTALLED OVERFLOW ROOF DRAIN PRIMARY CHILLED WATER RETURN PRIMARY CHILLED WATER SUPPLY EST 1935 PUMPED CONDENSATE RETURN

PRESSURE DROP (FEET OF WATER)

PRIMARY HEATING WATER RETURN

PRIMARY HEATING WATER SUPPLY

POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH-ABSOLUTE POUNDS PER SQUARE INCH-GAUGE

SECONDARY CHILLED WATER RETURN

SMOKE DAMPER, STORM DRAIN

SINGLE-POLE SINGLE-THROW STATIC PRESSURE

SOUND TRANSMISSION CLASS

SQUARE FOOT/SQUARE FEET

CONDARY CHILLED WATER SUPPLY

CONDARY HEATING WATER RETURN

SERVICE SINK, STAINLESS STEEL STORM DRAIN, SOUND TRAP, STEAM TRAP

ECONDARY HEATING WATER SUPPLY

PRESSURE REDUCING VALVE

POTENTIAL TRANSFORMER

REINFORCED CONCRETE PIPE

QUANTITY

RETURN FAN

ROOF TOP UNIT

SOFT WATER

THERMOSTAT

TERMINAL UNIT

UNDER FLOOR

UNIT HEATER

SWITCHBOARD

TEMPERED WATER

TEMPERATURE GAUGE

TOTAL DYNAMIC HEAD

TOTAL STATIC PRESSURE

UNDERWRITERS LABORATORIES, INC. UNLESS NOTED OTHERWISE UNINTERRUPTIBLE POWER SUPPLY

VOLTS ALTERNATING CURRENT VARIABLE AIR VOLUME

VARIABLE FREQUENCY DRIVE

WALL CLEANOUT WATER COLUMN, WATER CLOSET

VITRIFIED CLAY PIPE

VENT THROUGH ROOF

WET BULB

WATER SERVICE, WATTS

WALL HYDRANT WATER PRESSURE DROP

WEATHERPROOF

WATERTIGHT, WEIGHT

TRANSFORMER EXPLOSION-PROOF

GENERAL

CONNECT NEW TO EXISTING

DARK AND DASHED LINEWEIGHT INDICATES DEMOLITION WHEN SHOWN ON DEMOLITION PLAN OR NOTED

CONSTRUCTION NOTE

NEW WORK

HEAVY LINEWEIGHT INDICATES

LIGHT AND SCREENED LINEWEIGHT INDICATES EXISTING-TO-REMAIN

POINT OF DISCONNECT FROM EXISTING

SANITARY SEWER

RELATIVE HUMIDITY

RUNNING LOAD AMPS

REVOLUTIONS PER MINUTE

PHWS

QTY

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AG



DUPLEX SYMBOLS LEGEND

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<u>∞</u> | MALL CLEANOUT

© I END OF LINE CLEANOUT

PLUMBING - WASTE LINE-ABOVE GRADE --- --- WASTE LINE-BELOW GRADE ————— VENT LINE ----- DOMESTIC COLD WATER ---- DOMESTIC HOT WATER ----T----- DOMESTIC TEMPERED HOT WATER ----- DOMESTIC HOT WATER RECIRC. -----140----- 140 DEGREE DOMESTIC HOT WATER

VENT THROUGH ROOF NOTE

C

		<u> </u>	WALL MOUN
F	IRE PROTECTION		WALL SCO
		┨┃——	WALL MOUN
∇			POLE MOUN AS SHOWN)
—⊗—			TENON MOU
——FP——	— FIRE PROTECTION PIPING	। ⊗	IN-GROUND
**	SIAMESE CONNECTION	•	BOLLARD I
		■ ⊗	EXIT LIGHT
		 	EXIT LIGHT
		■	EXIT LIGHT

7

TEMPERATURE CONTROLS EMPERATURE SENSOR/THERMOSTAT SERVING AHU-I HUMIDITY SENSOR/HUMIDISTAT REMOTE TEMPERATURE SENSOR REMOTE HUMIDITY SENSOR CO2 CARBON DIOXIDE SENSOR 000 OCCUPANCY SENSOR CARBON MONOXIDE SENSOR SP STATIC PRESSURE SENSOR DPT

DIFFERENTIAL PRESSURE TRANSMITTER FM FLOW METER **LIGHTING**

$\nabla \nabla \nabla$	LIGHT TRACK WITH LIGHT TYPES AS INDICATED
⊙ ⊁	WALL WASHER LIGHTING FIXTURE, ARROWN INDICATES DIRECTION
(A)	FLUORESCENT FIXTURE AND TYPE
	EMERGENCY LIGHT FIXTURE
	NIGHT LIGHT FIXTURE
<u>A</u>	LIGHT FIXTURE AND TYPE
A ©	LIGHT FIXTURE AND TYPE
©	EMERGENCY LIGHT FIXTURE
<u> </u>	WALL MOUNTED FIXTURE
	WALL SCONCE
	WALL MOUNTED FIXTURE
- □	POLE MOUNTED LIGHT (NUMBER OF HEAD AS SHOWN)
ledot	TENON MOUNTED POLE LIGHT
정	IN-GROUND LIGHT FIXTURE
•	BOLLARD LIGHT FIXTURE
⊗	EXIT LIGHT CLG. MNTD. (SGL. FACE)
t⊕t	EXIT LIGHT CLG. MNTD. (DBL. FACE)
⊗	EXIT LIGHT WALL MNTD. (SGL. FACE)
	EXIT/EMERGENCY LIGHT
	EMERGENCY LIGHT
	CEILING FAN

WIRING DEVICES & OUTLETS

Ф	SIMPLEX RECEPTACLE
Ф	DUPLEX RECEPTACLE
Ф ^{GFI}	GROUND FAULT INTERRUPTER
⊕ _{MP}	GROUND FAULT INTERRUPTER WEATHERPROOF DUPLEX RECEPTACLE
	QUAD RECEPTACLE
Ф	HEAVY DUTY RECEPTACLE-NEMA TYPE AS NOTED
	FLOOR MOUNTED DEVICE
● ▼	CEILING MOUNTED DEVICE
•	ISOLATED GROUND DUPLEX RECEPTACLE
	ISOLATED GROUND QUAD RECEPTACLE
▼ ^w	WALL MOUNTED PHONE
⊕ ⁴⁸ ▼ ⁴⁸	CENTER OF DEVICE AT 48" A.F.F.
$\Phi_{E} \oplus_{E}$	DEVICE ON EMERGENCY POWER
∇	DATA OUTLET
$oldsymbol{ abla}$	TELEPHONE/DATA OUTLET
\downarrow	CABLE T.V. OUTLET
\$77\$	CABLE TRAY
****	SURFACE RACEWAY
\$	SWITCH, SPST U.N.O.
\$ ²	SWITCH, DPST
\$ ^F	FUSESTAT
\$ ³	3-WAY SWITCH
\$ ⁴	4-WAY SWITCH

Φ	CENTER OF DEVICE AT 48" A.F.F.
Ø ^E ⊕ ^E	DEVICE ON EMERGENCY POWER
∇	DATA OUTLET
$lackbox{f V}$	TELEPHONE/DATA OUTLET
\downarrow	CABLE T.V. OUTLET
3 773	CABLE TRAY
••••	SURFACE RACEWAY
\$	SMITCH, SPST U.N.O.
\$ ²	SMITCH, DPST
\$ ^F	FUSESTAT
\$ ³	3-WAY SWITCH
\$ ⁴	4-WAY SWITCH
\$ ^D	DIMMER SWITCH
\$ ^J	JAMB SWITCH
\$ ^M	MOTOR RATED SWITCH
\$ ^{WP}	SMITCH WITH WEATHERPROOF COVER
\$ ^K	KEYED SWITCH
TS	TIME SWITCH
•	PUSH BUTTON
(P)	PHOTOCELL SWITCH
O #	CEILING OCCUPANCY SENSOR
RC #	ROOM CONTROLLER

EMERGENCY CONTROL UNIT

REVISION NUMBER SECTION CUT THROUGH DRAWING AREA OF ENLARGEMENT SHEET WHERE ENLARGED PLAN IS DRAWN THIS IS A MASTER LEGEND. NOT ALL SYMBOLS, ABBREVIATIONS, ETC. ARE USED ON THE DRAWINGS.

> HOSS & BROWN ■ 11205 West 79th Street Lenexa, Kansas 66214 913.362.9090 | mail@h-be.com H&B PROJECT NUMBER: 1920580 © Hoss & Brown Engineers 2019

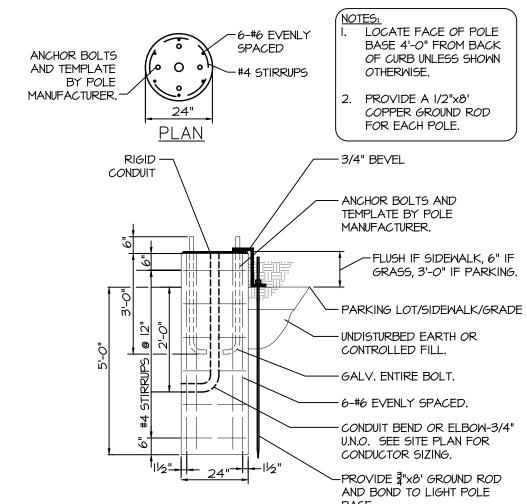
LIGH	IT FIXTURE	SCHEDULE							
				LAMP DATA			TOTAL		
MARK	MANUFACTURER	MODEL	QUAN.	TYPE	VOLTS	MOUNTING	WATTS	DESCRIPTION	NOTES
SA	WILLIAMS	VAI-L83/740-T3-S-DIM-208-PCR		LED	208	POLE	83	EXTERIOR FIXTURE WITH TYPE 3 DISTRIBUTION	1,2,3
SA2	WILLIAMS	VAI-L83/740-T4-S-DIM-208-PCR	2	LED	208	POLE	166	EXTERIOR FIXTURE WITH TYPE 4 DISTRIBUTION	1,2,3

NOTES:

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

GENERAL NOTES:

A. PROVIDE ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION.



POLE BASE DETAIL

SCALE: NOT TO SCALE

GENERAL NOTES:

- A. REFERENCE MECHANICAL SHEETS FOR MECHANICAL GENERAL
- B. REFERENCE PLUMBING SHEETS FOR PLUMBING GENERAL NOTES.C. REFERENCE ELECTRICAL SHEETS FOR ELECTRICAL GENERAL
- NOTES.

 D. ALL ELECTRICAL WORK SHALL COMPLY WITH UTILITY COMPANY STANDARDS, AND BE APPROVED BY UTILITY COMPANY AND
- CITY PRIOR TO INSTALLATION.

 E. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATION OF BUILDING TYPES.

ELECTRICAL PLAN NOTES:

- I. PROPOSED ELECTRIC UTILITY TRANSFORMER. PROVIDE TRANSFORMER PAD PER LOCAL UTILITY REQUIREMENTS. REFER TO ELECTRICAL RISER DIAGRAM FOR EACH RESPECTIVE BUILDING FOR MORE INFORMATION. IMMEDIATELY AFTER BEING AWARDED CONTRACT, NOTIFY ELECTRIC UTILITY OF WORK ON SITE TO BE PERFORMED BY ELECTRIC UTILITY. ROUTING OF ELECTRIC UTILITY WORK IS DIAGRAMMATIC AND FOR COORDINATION PURPOSES ONLY.
- 2. PROVIDE METER BANK AND MAIN CIRCUIT BREAKERS FOR ELECTRICAL SERVICE ON THE EXTERIOR OF THE BUILDING AT THIS LOCATION. REFER TO ELECTRICAL RISER DIAGRAM #1.
- 3. PROVIDE (2)#8'S, AND A #IO GROUND IN 3/4" CONDUIT.
- PROVIDE (2)#6'S, AND A #10 GROUND IN 3/4" CONDUIT.
 PROVIDE (2)#10'S, AND A #10 GROUND IN 3/4" CONDUIT.
- 5. PROVIDE WEATHERPROOF HORN/STROBE ON EXTERIOR OF BUILDING. CIRCUIT TO FIRE PROTECTION FLOW AND TAMPER SWITCHES. ROUTE TO ADDRESSABLE FIRE ALARM CONTROL PANEL LOCATED IN APARTMENT BUILDING.
- 6. BUILDING CABLE TELEVISION CONNECTION BOX.

7. BUILDING TELEPHONE CONNECTION BOX.

PLUMBING PLAN NOTES: I. REFER TO CIVIL SITE PLAN FOR CONTINUATION.

- FIRE DEPARTMENT SIAMESE CONNECTION.
 6" COMBINED DOMESTIC WATER AND FIRE PROTECTION SERVICE
- LINE.
- 4. 6" SANITARY DRAIN LINE.5. 4" COMBINED DOMESTIC WATER AND FIRE PROTECTION SERVICE
- 6. 4" SANITARY DRAIN LINE.
- 7. I" DOMESTIC WATER SERVICE LINE.



ARCHITECTURAL CORPORATION
OKLAHOMA CERTIFICATE
OF AUTHORITY NO. CA 02479

ON 8, TOWNSHIP 18, RANGE 15 OW, WAGONER COUNTY, OKLAHOM



MPE SITE PLAN

ISSUE DATE:

OCTOBER 18, 2019

REVISIONS:

PROJECT NO.: 1902

HOSS & BROWN ■

11205 West 79th Street Lenexa, Kansas 66214 913.362.9090 | mail@h-be.com H&B PROJECT NUMBER : 1920580 © Hoss & Brown Engineers 2019 3 MPE1.0

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

GENERAL NOTES:

- A. REFERENCE SHEET MI.I FOR MECHANICAL GENERAL NOTES.
- B. REFERENCE SHEET PO.I FOR PLUMBING GENERAL NOTES.
- C. REFERENCE SHEET E2.1 FOR POWER GENERAL NOTES.
- D. ALL ROOF JACKS TO BE PAINTED TO MATCH ADJACENT ROOF COLOR.

PLUMBING AND RADON CONTROL SYSTEM PLAN NOTES:

I. 2" VENT THRU ROOF. 2. 3" PVC RADON VENT.

RADON CONTROL SYSTEM NOTES:

- I. 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.



ARCHITECTURAL CORPORATION

OKLAHOMA CERTIFICATE OF AUTHORITY NO. CA 02479



DUPLEX MPE ROOF PLAN

ISSUE DATE: OCTOBER 18, 2019

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H&B PROJECT NUMBER: 1920580

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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 I 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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OKLAHOMA CERTIFICATE

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OF AUTHORITY NO. CA 02479

SECTION 8, TOWNSHIP 18, RANGE 15 N ARROW, WAGONER COUNTY, OKLAH



DUPLEX MECHANICAL PLAN

ISSUE DATE:

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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
- 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.

PLAN NOTES:

- I. 4" DRYER VENT EXHAUST. DISCHARGE DRYER EXHAUST WITH WALL. TERMINATION SHALL BE EQUIPPED WITH BACKDRAFT DAMPER. MAINTAIN 3 FOOT CLEARANCE ABOVE OPERABLE
- 2. 4" BATH EXHAUST. DISCHARGE RESTROOM EXHAUST WITH WALL CAP. TERMINATION SHALL BE EQUIPPED WITH BACKDRAFT DAMPER. MAINTAIN 3 FOOT CLEARANCE ABOVE OPERABLE 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.I
- 5. INSTALL RETURN GRILLE LOW ON WALL IN LIVING SPACE.



ARCHITECTS

EST 1935

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** COOL COOLING FAN HEATING COIL KW | SEER | MCA | MOCP | V/PH | NOTES MARK | MANUFACTURER | MODEL | MBH | CFM | ESP | NOM. ACT | MCA | MOCP | V/PH MARK HP-101 65ZI4-030 14.0 | 17.8 | 30 | 208/1 | 1,2,3,4 MBR1200 | 32.0 | 1,200 | 0.50 | 15.*0* | 13.*0* | 52 | HP-102 69ZI4-030

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, F	REGISTER, & D	IFFUSER SCH	HEDULE				
MARK	MANUFACTURER	MODEL	SERVICE	FACE SIZE	NECK SIZE	DAMPER	NOTES
SI	US AIRE	102M	SUPPLY	"SEE PLAN"	"SEE PLAN"	YES	
52	US AIRE	VM	SUPPLY	"SEE PLAN"	-	YES	
RI	US AIRE	1400	RETURN	"SEE PLAN"	-	NO	

GENERAL NOTES (APPLY TO ALL ABOVE).

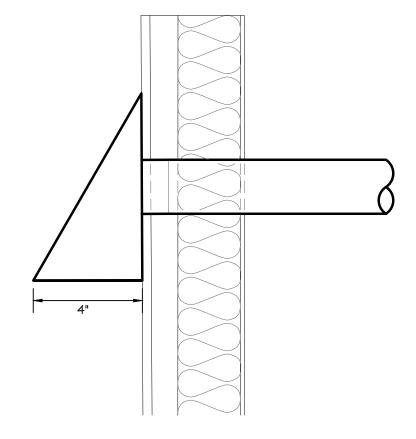
PROVIDE MOUNTING FRAME TO MATCH CEILING TYPE. VERIFY WITH ARCHITECT'S PLANS PRIOR TO ORDERING.

MAXIMUM NC 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.

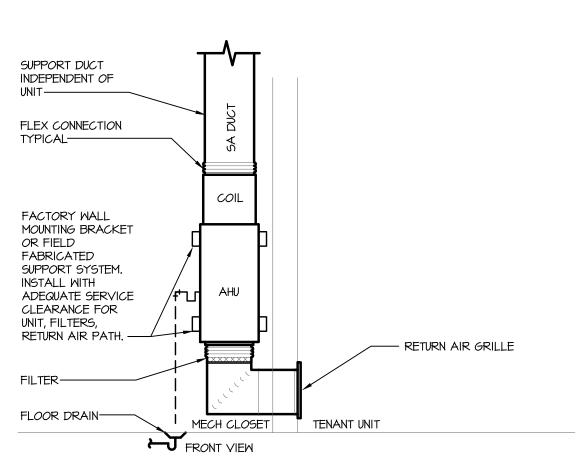
FAN S	CHEDULE										
MARK	MANUFACTURER	MODEL	CFM	S.P.	DRIVE	ВНР	HP	RPM	dBA	V/PH	NOTES
EF-I	BROAN	AE80L	50	0.25	DIRECT	26.9 W		-	28	120/1	l
NOTES:	PROVIDE WITH FACTORY	INSTALLED AND W	IRED DISCONNEC	,Т.				<u> </u>		l	



NOTES:

I. 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. 4. 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 5 Exhaust & Dryer Exhaust Detail Scale: Not to Scale



4 Typical Apartment AHU Detail
Scale: Not to Scale



-HEAT PUMP; MOUNT

-PROVIDE CONCRETE

PAD FOR HEAT PUMP

DISCONNECT SWITCH -

REFRIGERANT PIPING:

SIZED BY MANUFACTURER -

MOUNT ON WALL -

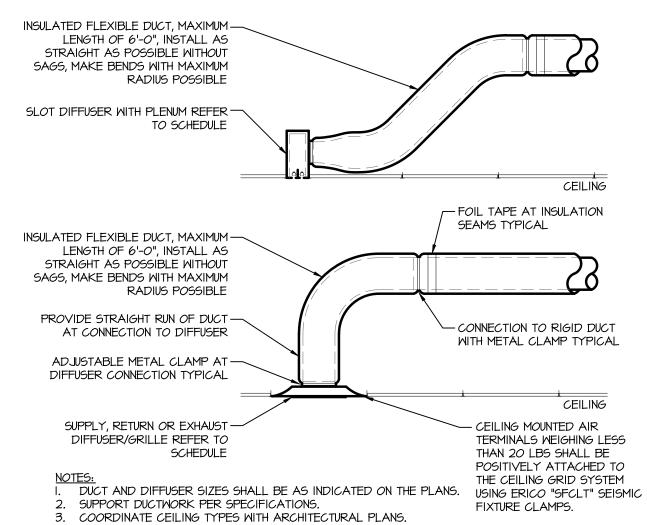
WEATHERPROOF

AND CONDUIT

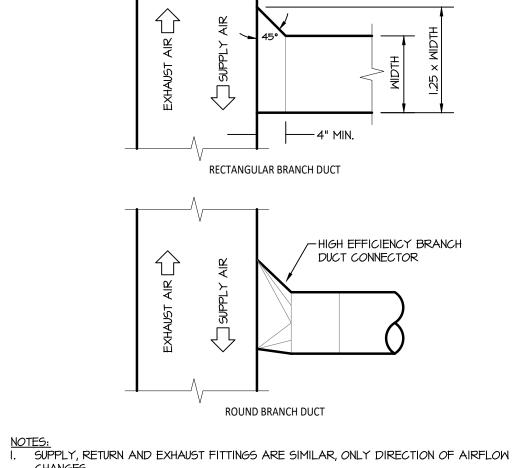
PENETRATIONS. -

SEALANT AT PIPING

PROVIDE

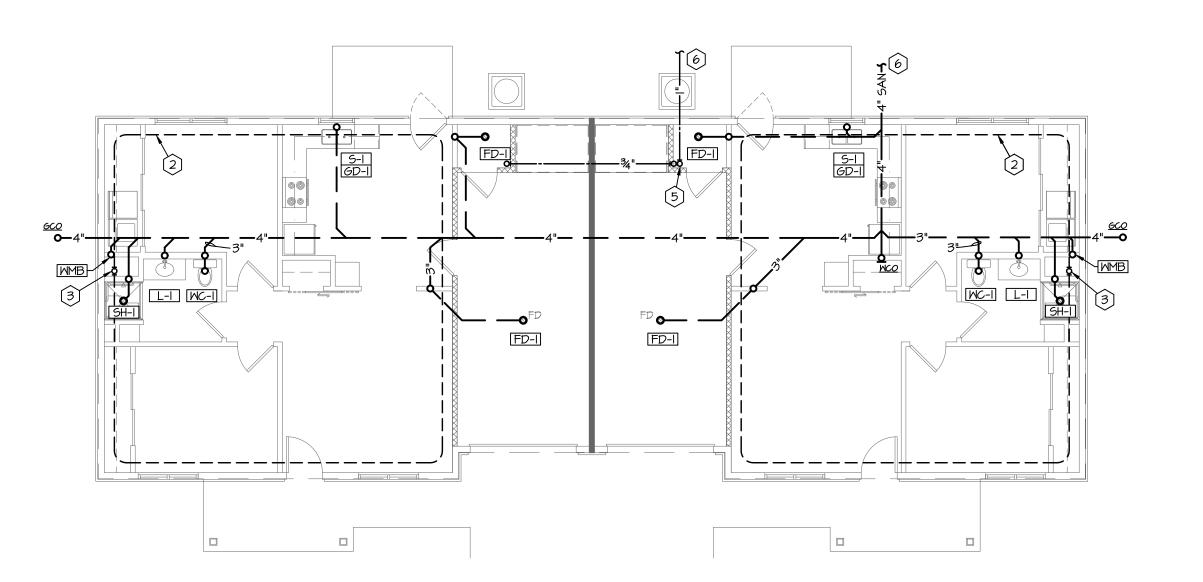


2 Diffuser Connection Detail Scale: Not to Scale



2. REFER TO FLOOR PLANS FOR BRANCH LOCATIONS REQUIRING BALANCING DAMPERS.

Branch Duct Detail



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

GENERAL NOTES:

OTHER ACCESSORIES.

FACE OF THE PARAPET.

- 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
- 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'-O" AWAY FROM ANY FRESH AIR INTAKE LOCATION AND A MINIMUM OF 18" CLEAR FROM THE INSIDE
- J. PROVIDE THE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.
- K. MINIMUM UNDERGROUND PIPE SIZE SHALL BE 2".
- L. ***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:

- I. 2" VENT THRU ROOF.
- 2. 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. 3" PVC PIPE UP FOR PASSIVE RADON CONTROL SYSTEM.
- 3" PVC RISER UP THRU ROOF FOR PASSIVE RADON SUPPRESSION SYSTEM.
- I-I/4" DOMESTIC COLD WATER LINE UP. PROVIDE ¾" TEE FOR LINE SERVING UNIT. ¾" COLD WATER LINE DOW TO BELOW GRADE TO SERVE UNIT DOWNSTREAM.
- 6. REFER TO MPE SITE PLAN FOR CONTINUATION.



ARCHITECTURAL CORPORATION OKLAHOMA CERTIFICATE

OF AUTHORITY NO. CA 02479

SECTION 8, TOWNSHIP 18, RANGE 15 OKEN ARROW, WAGONER COUNTY, OKLAH



DUPLEX PLUMBING PLAN

ISSUE DATE:

OCTOBER 18, 2019

REVISIONS:

HOSS & BROWN

11205 West 79th Street
Lenexa, Kansas 66214

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B P1.1



ENLARGED DUPLEX PLUMBING PLAN

ISSUE DATE: OCTOBER 18, 2019

REVISIONS:





GENERAL NOTES:

OTHER ACCESSORIES.

OTHER EQUIPMENT.

FACE OF THE PARAPET.

PLAN NOTES:

FD-I

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

LOCATIONS OF PLUMBING FIXTURES.

THE WORK OF ALL OTHER TRADES.

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

C. COORDINATE THE INSTALLATION OF PLUMBING AND PIPING WITH

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

E. PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT OR PANELS. PROVIDE THE CODE REQUIRED WORKING

F. THE CONTRACTOR SHALL NOT LOCATE PIPING BELOW DUCT

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'-O" AWAY FROM ANY FRESH AIR INTAKE LOCATION AND A MINIMUM OF 18" CLEAR FROM THE INSIDE

J. PROVIDE THE CODE REQUIRED CLEARANCE FOR ALL

I. 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

4. REFERENCE OVERALL PLUMBING PLAN ON SHEET B P2.1 FOR

5. INSTALL I" VERTICAL BACKFLOW PREVENTER MEETING WATER DEPARTMENT REQUIREMENTS IN ACCESSIBLE LOCATION.

K. MINIMUM UNDERGROUND PIPE SIZE SHALL BE 2".

SHUTOFF VALVE OR ACCESS PANEL.

MOUNTED AIR TERMINAL UNITS, TERMINAL HEATING COILS, OR

CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.

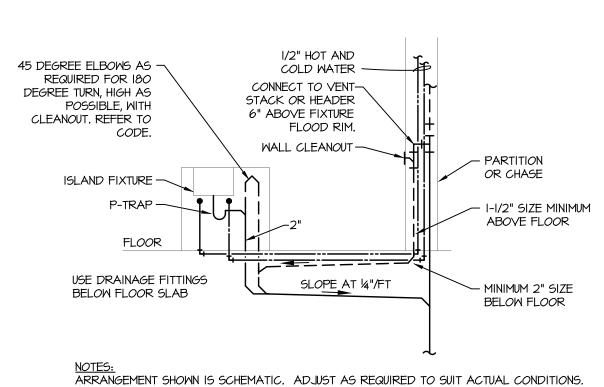
CLEARANCE AROUND ALL ELECTRICAL EQUIPMENT AND PANELS.

1 9 1 8 1 7 1 6 1 5 1 4 1

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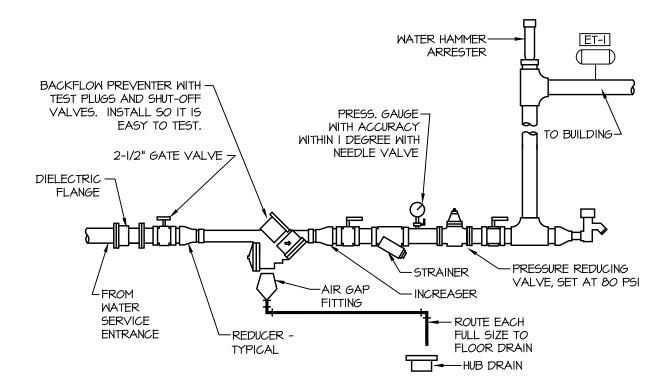
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Dishwasher Connection Detail



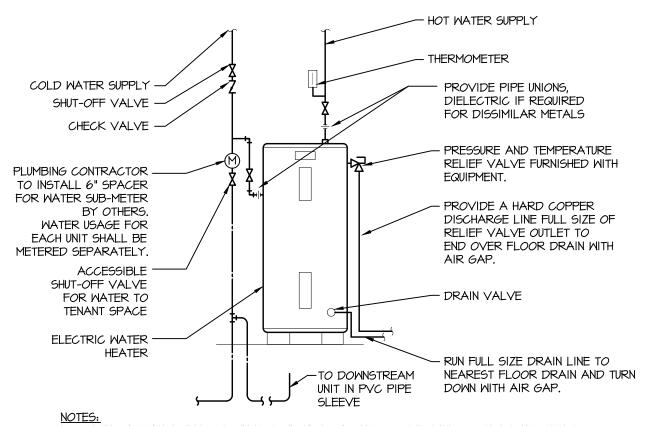
REFER TO FLOOR PLANS. PROVIDE SIMILAR SEPARATE SYSTEM FOR EACH FIXTURE. REFER TO LOCAL CODE FOR OTHER INFORMATION.

3 Island Fixture Vent



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:
I. 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.

Electric Water Heater

					CONNECTIONS				
IARK	DESCRIPTION	MANUFACTURER	MODEL	TRIM	CW	HW	W	V	NOTES
	FLOOR MOUNTED	AMERICAN STANDARD	2l5DA.l04	ROUND BOWL					
NC-1	FLUSH TANK			CLOSED FRONT SEAT	1/2"		3"	2"	
	WATER CLOSET			AND SOLID COVER, I.28 GPF					
	DROP-IN			BISCUIT COLOR					
L-I	LAVATORY	KOHLER	K-2337-I	FAUCET: F-2			I-I/4"	I-I/2"	l, 2
	KITCHEN SINK	DAYTON	DSESRI2722	STAINLESS STEEL					
S-I	18 GAUGE			FAUCET: F-I			2"	I-I/2"	2
	DROP-IN								
				WHITE GELCOAT FLAT PANEL					
SH-I	36" SHOWER UNIT	BEST BATH	4LSS4038A5B	GRAB BARS, 24" SLIDE			1-1/2"	2"	
	WITH SURROUND			SHOWER VALVE: SV-I					
	ADA SINGLE HANDLE			I.O GPM AERATOR, SINGLE HOLE					
F-I	HIGH ARC PULL DOWN	KRAUS	KPF-2620	PULLDOWN SPRAY, CHROME FINISH	1/2"	1/2"			2,8
	KITCHEN FAUCET			CUP STRAINER DRAIN					
	SINGLE HANDLE			I.O GPM AERATOR					
F-2	LAVAT <i>O</i> RY	DELTA	559-LF-PP	SINGLE HOLE	1/2"	1/2"			2,8
	FAUCET			POLISHED CHROME					, ·
	SINGLE LEVER			1.75 GPM					
5V-I	PRESSURE BALANCE	DELTA	TI3HI53	CHROME FINISH	1/2"	1/2"			17
	SHOWER FAUCET			SHOWER VALVE					
	NON-FREEZE	WOODFORD	MODEL 65	VACUUM BREAKER					
HB-I	WALL HYDRANT			LOOSE CONTROL KEY	1/2"				6
				WALL CLAMP-WITH HYDRANT BOX	·				
	7" ROUND	WADE	IIOOSTD	NICKEL BRONZE STRAINER					
FD-I	FLOOR DRAIN	ZURN	Z-4I5	DEEP SEAL TRAP					4, 9
		SMITH	2005						', '
	5" ROUND	WADE	IIOOSTD	NICKEL BRONZE STRAINER					
-D-2	SHOWER DRAIN	ZURN	Z-4I5	DEEP SEAL TRAP					
		SMITH	2005						
		AMTROL	THERM-X-TROL ST-5	DOMESTIC WATER SERVICE					
ET-I	EXPANSION TANK	7,4111.02	Therefore the end of t			3/4"			
GD-I	GARBAGE DISPOSAL	INSINKERATOR	BADGER 5	1/3HP, 120V					
+	MASHING MACHINE			PLASTIC					
WMB	CONNECTION BOX	GUY GRAY	W2700	WASHING MACHINE BOX	1/2"	1/2"	2"	I-I/2"	3, 5
	ICE MAKER			PLASTIC	1.70"				
MB	CONNECTION BOX	GUY GRAY	AB97 <i>00</i>	ICEMAKER BOX	1/2"				3

- PROVIDE TAILPIECE DRAIN CONNECTION ON LAVATORIES OR SINKS WHERE NEEDED FOR HVAC CONDENSATE DRAINS.
- 2. FAUCET HOLES TO MATCH FAUCET SPECIFIED.
- WHERE BOX IS TO BE INSTALLED IN FIRE RATED WALL, CONTRACTOR SHALL SUPPLY FIRE RATED BOXES.
- 4. PIPE SIZE AS SHOWN ON DRAWING. PROVIDE WASHING MACHINE DRAIN PAN UNDERNEATH WASHING MACHINE AT ALL WASHING MACHINE BOX LOCATIONS.
- PROVIDE OPERATING ROD ASSEMBLY PER MANUFACTURER'S RECOMMENDATIONS BASED ON WALL THICKNESS.
- PIPE FOR SHOWER HEAD SHALL BE LOCATED AT 6'-8" A.F.F., ABOVE SURROUND 8. FIXTURE ASSEMBLY MUST BE APPROVED BY AND INSTALLED PER ADA.
- 9. PROVIDE SURESEAL SSX000V INLINE FLOOR DRAIN TRAP SEAL WITH ASSE 1072 RATING.

GENERAL NOTES:

- 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 (GAL) (kW)	(kW)	(GPH)	V/PH	NOTES
	(11, 11,	(GFII)	V/PN	HOIES
WH-I BRADFORD WHITE LE24053-3 40 4.5	-	21.0	208/1	RESIDENCE

GENERAL NOTES (APPLIES TO ALL ABOVE):

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



ARCHITECTURAL CORPORATION OKLAHOMA CERTIFICATE OF AUTHORITY NO. CA 02479

DUPLEX PLUMBING SCHEDULES AND **DETAILS**

ISSUE DATE: OCTOBER 18, 2019 **REVISIONS:**

HOSS & BROWN ■ 11205 West 79th Street Lenexa, Kansas 66214 913.362.9090 | mail@h-be.com H&B PROJECT NUMBER : 1920580

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PROJECT NO.: 1902

GENERAL NOTES:

A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE GENERAL EXTENT OF THE WORK. THE

A COMPLETE AND FULLY FUNCTIONAL SYSTEM.

ELECTRICAL CONTRACTOR SHALL PROVIDE ALL PULL BOXES, JUNCTION BOXES AND INCIDENTAL MATERIALS AND LABOR FOR

B. ELECTRICAL CONTRACTOR SHALL DERATE CONDUCTORS AS REQUIRED BY THE N.E.C. WHEN GROUPED IN COMMON RACEWAYS. C. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH CONTRACTOR PROVIDED SUBMITTALS. NOTIFY ENGINEER OF

ANY CONFLICTS BETWEEN THE SUBMITTALS AND ELECTRICAL

SIDES OF A COMMON WALL TO PREVENT SOUND TRANSMISSION

D. CONTRACTOR SHALL OFFSET OUTLET BOXES ON OPPOSITE

12" APART, AND MUST BE INSTALLED IN SEPARATE STUD

ROOMS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT

L. [FOR POWER PLANS WITH SMOKE DAMPERS] REFERENCE

N. [FOR SPECIAL SYSTEM PLANS] PROVIDE DUCT SMOKE DETECTORS IN RETURN AND SUPPLY AIR PATHS FOR AIR

TO SHUT DOWN UNIT UPON SMOKE DETECTION.

P. PROVIDE SEPARATE NEUTRALS FOR DIMMING CIRCUITS.

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

PROVIDE 20A/120V POWER TO SMOKE DAMPERS AND

PROVIDED AS PLENUM RATED CABLES.

VOICE AND DATA OUTLET LOCATIONS.

INTERRUPTER.

INSTALLATION.

SERVE SMOKE DAMPERS.

UPON SMOKE DETECTION.

ARCHITECTURAL DRAWINGS.

PLAN NOTES:

F. PROVIDE JUNCTION BOXES AND 3/4" CONDUIT WITH

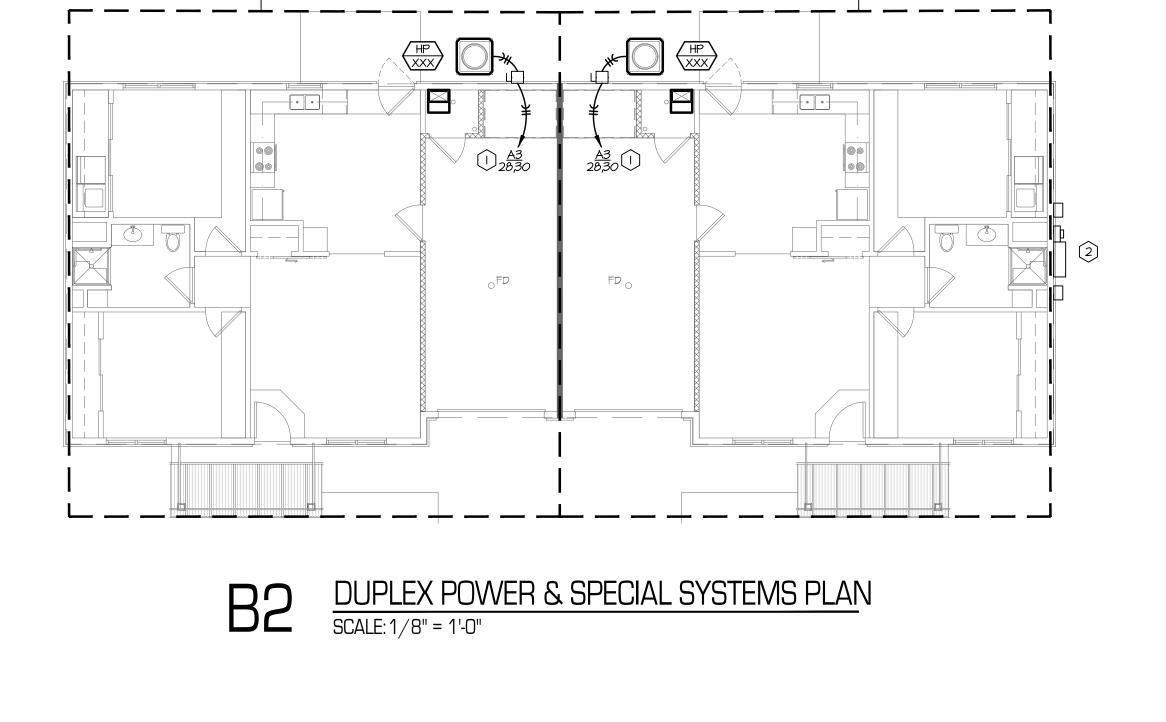
ARCHITECTURAL CORPORATION OKLAHOMA CERTIFICATE OF AUTHORITY NO. CA 02479

DUPLEX ELECTRICAL PLAN

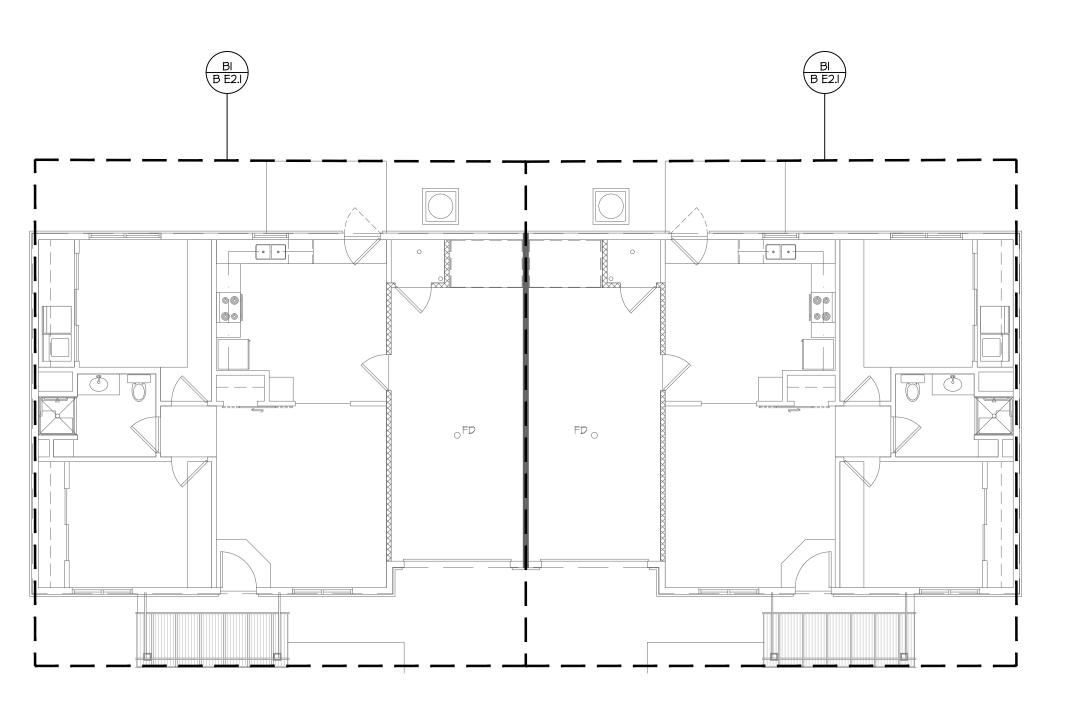
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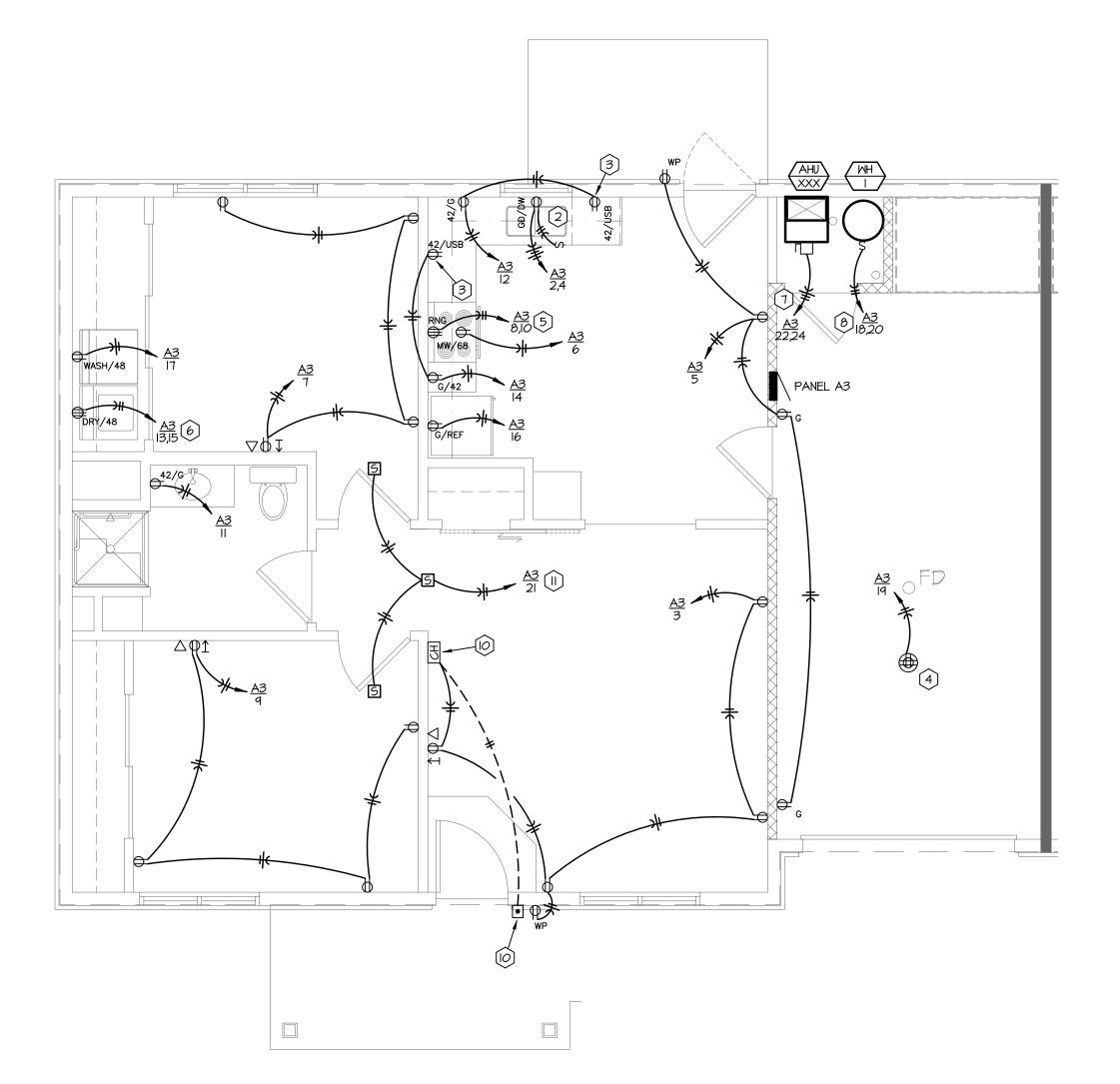
DUPLEX LIGHTING PLAN

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



B2 ENLARGED POWER PLAN

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

GENERAL NOTES:

- A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE GENERAL EXTENT OF THE WORK. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL PULL BOXES, JUNCTION BOXES AND INCIDENTAL MATERIALS AND LABOR FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
- B. ELECTRICAL CONTRACTOR SHALL DERATE CONDUCTORS AS REQUIRED BY THE N.E.C. WHEN GROUPED IN COMMON RACEWAYS.
 C. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH CONTRACTOR PROVIDED SUBMITTALS. NOTIFY ENGINEER OF

ANY CONFLICTS BETWEEN THE SUBMITTALS AND ELECTRICAL

- D. CONTRACTOR SHALL OFFSET OUTLET BOXES ON OPPOSITE SIDES OF A COMMON WALL TO PREVENT SOUND TRANSMISSION BETWEEN ADJOINING ROOMS. BOXES SHALL BE A MINIMUM OF 12" APART, AND MUST BE INSTALLED IN SEPARATE STUD
- E. ALL LOW VOLTAGE WIRES NOT ROUTED IN CONDUIT SHALL BE PROVIDED AS PLENUM RATED CABLES.
- F. PROVIDE JUNCTION BOXES AND 3/4" CONDUIT WITH PULL-STRINGS UP TO ACCESSIBLE LOCATION IN PLENUM AT ALL
- VOICE AND DATA OUTLET LOCATIONS.

 6. WHERE BOXES ARE INSTALLED IN CONCRETE BLOCK WALLS, THE BOX MOUNTING HEIGHT SHALL BE AT THE BLOCK JOINT AND THE DEVICES CHALL BE PROVIDED WITH A MARCO COMPRIATE.
- THE DEVICES SHALL BE PROVIDED WITH A JUMBO COVERPLATE.

 H. ALL WIRES RUN BELOW GRADE, IN CONCRETE THAT IS IN DIRECT CONTACT WITH THE EARTH, OR MASONRY THAT IS IN DIRECT CONTACT WITH THE EARTH SHALL BE WET LOCATION LISTED.
- I. ALL ELECTRICAL BRANCH CIRCUITS SERVING OUTLETS AND BED ROOMS, DINING ROOMS, KITCHENS, LIBRARIES, RECREATION ROOMS, CLOSETS, FAMILY ROOMS, LIVING ROOMS, SUNROOMS, DENS, HALLWAYS, PARLORS, LAUNDRY AREAS, OR SIMILAR ROOMS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER.
- J. FURNITURE LAYOUTS ARE FOR REFERENCE ONLY. COORDINATE THE FINAL LOCATION OF ELECTRICAL DEVICES AND OUTLETS WITH ARCHITECT, OWNER AND FINAL FURNITURE PLANS PRIOR TO INSTALLATION.
- K. PROVIDE LOCKING CLIPS ON ALL CIRCUIT BREAKERS SERVING TELECOMMUNICATION EQUIPMENT AND FIRE ALARM CONTROL PANELS.
- L. [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.
- M. [FOR SPECIAL SYSTEM & POWER PLANS WITH SMOKE DAMPERS]
 REFERENCE MECHANICAL PLANS FOR LOCATION OF SMOKE
 DAMPERS. PROVIDE 20A/I2OV POWER TO SMOKE DAMPERS
 FROM CIRCUIT ONLY SERVING SMOKE DAMPERS. PROVIDE AND
 INTERLOCK FIRE ALARM RELAY(S) TO CLOSE SMOKE DAMPERS
 UPON SMOKE DETECTION.

 N. [FOR SPECIAL SYSTEM PLANS] PROVIDE DUCT SMOKE
- DETECTORS IN RETURN AND SUPPLY AIR PATHS FOR AIR HANDLING EQUIPMENT 2,000 CFM AND LARGER AND WHERE SHOWN ON PLANS. INTERLOCK WITH AIR HANDLING EQUIPMENT TO SHUT DOWN UNIT UPON SMOKE DETECTION.
- O. COORDINATE THE EXACT LIGHT FIXTURE LOCATIONS WITH THE ARCHITECTURAL DRAWINGS.
- P. PROVIDE SEPARATE NEUTRALS FOR DIMMING CIRCUITS.

PLAN NOTES:

- PROVIDE SMITCH FOR OVERHEAD LIGHT AND A SEPARATE SMITCH FOR EXHAUST FAN.
- 2. 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.

 5. PROVIDE A NEMA 14-50 RECEPTACLE AND HOMERUN WITH (3)#8
- \$ #IO GROUND WIRE IN A 3/4" CONDUIT.6. PROVIDE A NEMA I4-30 RECEPTACLE AND HOMERUN WITH (3)#IO
- # #10 GROUND WIRE IN A 3/4" CONDUIT.
- 7. 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)#IO & #IO GROUND IN A 3/4" CONDUIT.
- 9. MOUNT BOTTOM OF FIXTURE AT 1'-10" AFF. SEE ARCHITECTURAL DRAWINGS FOR REFERENCE.

 10. PROVIDE NEW DOORBELL CHIME KIT BY NIJTONE MODEL.
- IO. PROVIDE NEW DOORBELL CHIME KIT BY NUTONE, MODEL BK240LWH WITH ONE 2-NOTE, WHITE DOOR CHIME AND LIGHTED PUSHBUTTON.
- II. PROVIDE LOCKABLE CIRCUIT BREAKER FOR SMOKE DETECTION CIRCUIT.



ARCHITECTURAL CORPORATION
OKLAHOMA CERTIFICATE
OF AUTHORITY NO. CA 02479

5 AHOMA

on 8, township 18, range 15 ow, wagoner county, oklah



ENLARGED DUPLEX ELECTRICAL PLAN

ISSUE DATE:

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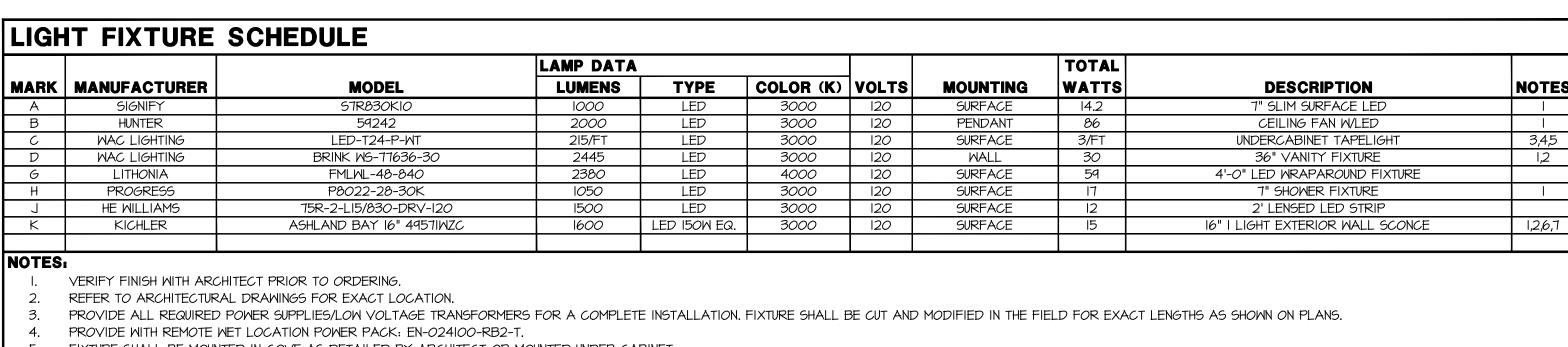
DUPLEX ELECTRICAL SCHEDULES & **DETAILS**

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PANEL A3 (LOAD CENTER)

VOLTAGE: 120/208V, 1PH, 3 WIRE

DEMANDED LOAD CONTINUOUS: 30kW= 144/

47kW= 224

(W) NO

1200 | 2

1500 | 4

1000 | 6

4550 8

4550 10

360 | 12

360 | 14

800 16

2250 18

2250 20

6500 | 22

6500 24

1851 26

1851 28

TOTAL

2700

6000

8100

18200 2400 2240

3000

10000

3000

30000

7400

9000

99340

99340

275.7

275.7

400 A

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LOAD |

TOTAL CONNECTED LOAD.

GARBAGE DISPOSAL

DISHWASHER

I REFRIGERATOR

2 WATER HEATER

2 AHU-XXX

I MICROWAVE

RANGE

PSIZEPHSIZE P | DESCRIPTION

30 A 20 I RCPT - KITCHEN

| | 20 | **A** | 20 |

| 20 | **B** | 50 |

1 20 **A** 60

| | 20 **| A** | 30 | 1

|SUMMARY ESTIMATE (PER NEC 220.84)

DUPLEX METER CENTER

* VALUE IS THE SUM OF THE LOADS FROM THE PREVIOUS TEN LINES.

** VALUE IS THE TOTAL UNITS LOADS MULTIPLIED BY THE BUILDING DEMAND FACTOR

| **| 20 | B |**

| 20 | **B** |

DESCRIPTION: 150A

10 KAIC RATING

13 2500 DRYER

17 | 1500 | WASHER

15 2500

LOAD

MCB

NO (W) DESCRIPTION

LIGHTING

5 | 720 | RCPT - DINING/GARAGE

3 900 RCPT - LIVING ROOM

7 | 720 | RCPT - BEDROOM

9 | 720 | RCPT - BEDROOM

II 180 RCPT - BATHROOM

19 360 GARAGE OPENER

21 180 SMOKE DETECTOR

SPARE

SPARE

SPARE

. PROVIDE AFCI TYPE CIRCUIT BREAKER

ELECTRICAL LOAD

APARTMENT CI SQUARE FOOTAGE

NET APARTMENT SQUARE FOOTAGE

(2) 1500 VA SMALL APPLIANCE BRANCH CIRCUIT

3 VA /SQFT GENERAL LIGHTING AND RECEPTACLES

2. PROVIDE GFCI TYPE CIRCUIT BREAKER

NUMBER OF CLUNITS

TOTAL NUMBER OF UNITS

ELECTRIC RANGE (9100 VA) DISHWASHER (1200 VA)

SARBAGE DISPOSAL (1120 VA) LOTHES WASHER (1500 VA)

LOTHES DRYER (5000 VA)

ELECTRIC WATER HEATER (4500 VA)

DEMAND FACTOR (FROM NEC T220.84)

MICROWAVE (1500 VA)

HEAT PUMP (3700 VA)

AHU ELECTRIC HEAT (15kW)

TOTAL UNIT LOADS (VA)*

UNIT DEMAND LOAD (VA)**

UNIT DEMAND LOAD (AMPS)

TOTAL DISCONNECT SIZE

TOTAL DEMAND LOAD (AMPS)

- FIXTURE SHALL BE MOUNTED IN COVE AS DETAILED BY ARCHITECT OR MOUNTED UNDER CABINET.
- MOUNT BOTTOM OF FIXTURE AT 5'-2" AFF UNLESS OTHERWISE NOTED. VERIFY WITH ARCHITECT PRIOR TO ROUGH-IN.
- PROVIDE EQUIVALENT LED BULD FOR FIXTURE.

GENERAL NOTES:

5

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

Duplex Electrical Riser Diagram

DRIVEN -

GROUND SERVICE

MATER —

7

NOTE: PROVIDE PERMANENT PLASTIC ENGRAVED

LABEL ON EACH METER CORRESPONDING WITH

REFERENCE SITE PLAN

-SECONDARY 2 SETS OF (4)-3/0 IN

STEEL

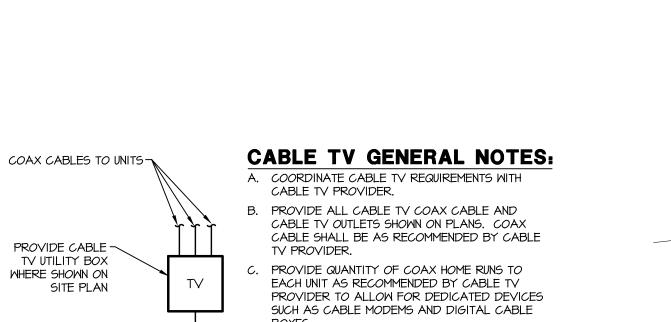
2-1/2" CONDUIT.

APARTMENT NUMBER SERVED.

(2) IØ3W EZ METER CENTERS WITH 150 AMP SERVICE DISCONNECTS

- 400A MAIN DISCONNECT, 22 KAIC

208/120V, 3PH, 4W.



D. PROVIDE CABLE TV UTILITY BOX AT LOCATIONS

/-WATERTIGHT CAULKING

STOPPING AS REQUIRED)

(PROVIDE FIRE

-CONDUIT

TO UTILITY TRANSFORMER.

FOR EXACT LOCATION.

-CONCRETE ENCASED ELECTRODE

CABLE TV FEEDER BY SHOWN ON SITE PLAN. UTILITY SHALL MAKE CABLE TV PROVIDER FINAL CONNECTIONS IN CABLE TV BOX. CABLE TV UTILITY BOX SHALL BE AS RECOMMENDED BY CABLE TV PROVIDER. Cable TV Detail & Notes

FLOOR-

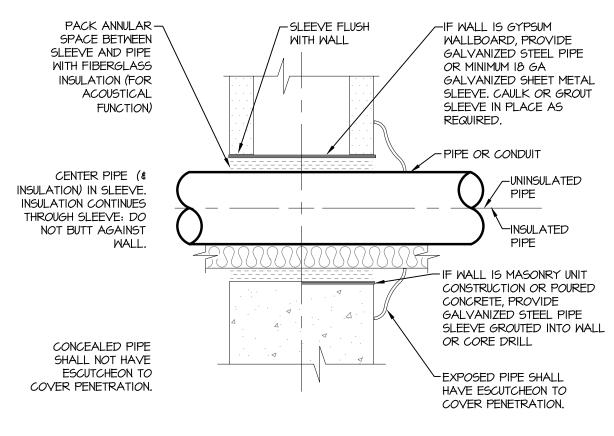
SLEEVE WITH FLANGE -

BY ELECTRICAL

CONTRACTOR

EQUIPMENT BUILDING -**ELECTRODE** CONDUCTOR -CONNECTIONS MADE WITHIN 5 FT. OF POINT OF ENTRANCE OF PIPE - CONCRETE ENCASED ELECTRODE UNDERGROUND WATER PIPE -GROUND ROD ─GROUND RING

Grounding electrode System



NOTES:

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

Conduit Penetration Through Non-Firewall SCALE: NTS

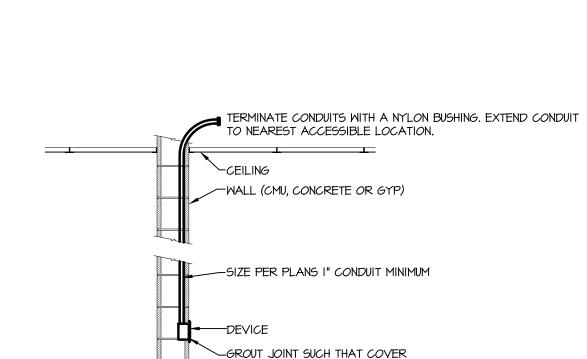


PLATE HAS A FLAT SURFACE

TELEPHONE GENERAL NOTES:

A. COORDINATE TELEPHONE REQUIREMENTS WITH

B. PROVIDE ALL VOICE CABLE AND TELEPHONE

OUTLETS SHOWN ON PLANS. TELEPHONE CABLE

PROVIDE TELEPHONE UTILITY BOX AT LOCATIONS

SHALL BE AS RECOMMENDED BY CABLE TV

SHOWN ON SITE PLAN. UTILITY SHALL MAKE

FINAL CONNECTIONS IN THE TELEPHONE BOX.

RECOMMENDED BY TELEPHONE PROVIDER.

TELEPHONE UTILITY BOX SHALL BE AS

TELEPHONE PROVIDER.

Telephone Detail & Notes
SCALE: NTS

DEVICE MOUNTED AT NORMAL RECEPTACLE HEIGHT UNLESS NOTED OTHERWISE. REFER TO PLANS FOR MOUNTING HEIGHTS. 2. REFER TO SPECS FOR OTHER INSTALLATION REQUIREMENTS.

Data Conduit & Back Box SCALE: NTS

* NOTE: CONTRACTOR SHALL BE RESPONSIBLE FOR

THROUGH BUILDING.

COORDINATING THE ROUTING OF ALL FEEDERS

VOICE CABLES TO UNITS-

PROVIDE

PHONE

TELEPHONE UTILITY

ON SITE PLAN

TELEPHONE FEEDER BY

TELEPHONE PROVIDER

BOX WHERE SHOWN

ALL FEEDERS SERVING UNIT

(3) #1/O AND (1)#6 GROUND IN

I-I/2" CONDUIT UNLESS NOTED

LOAD CENTERS SHALL BE

Conduit Penetration Through Floor SCALE: NTS