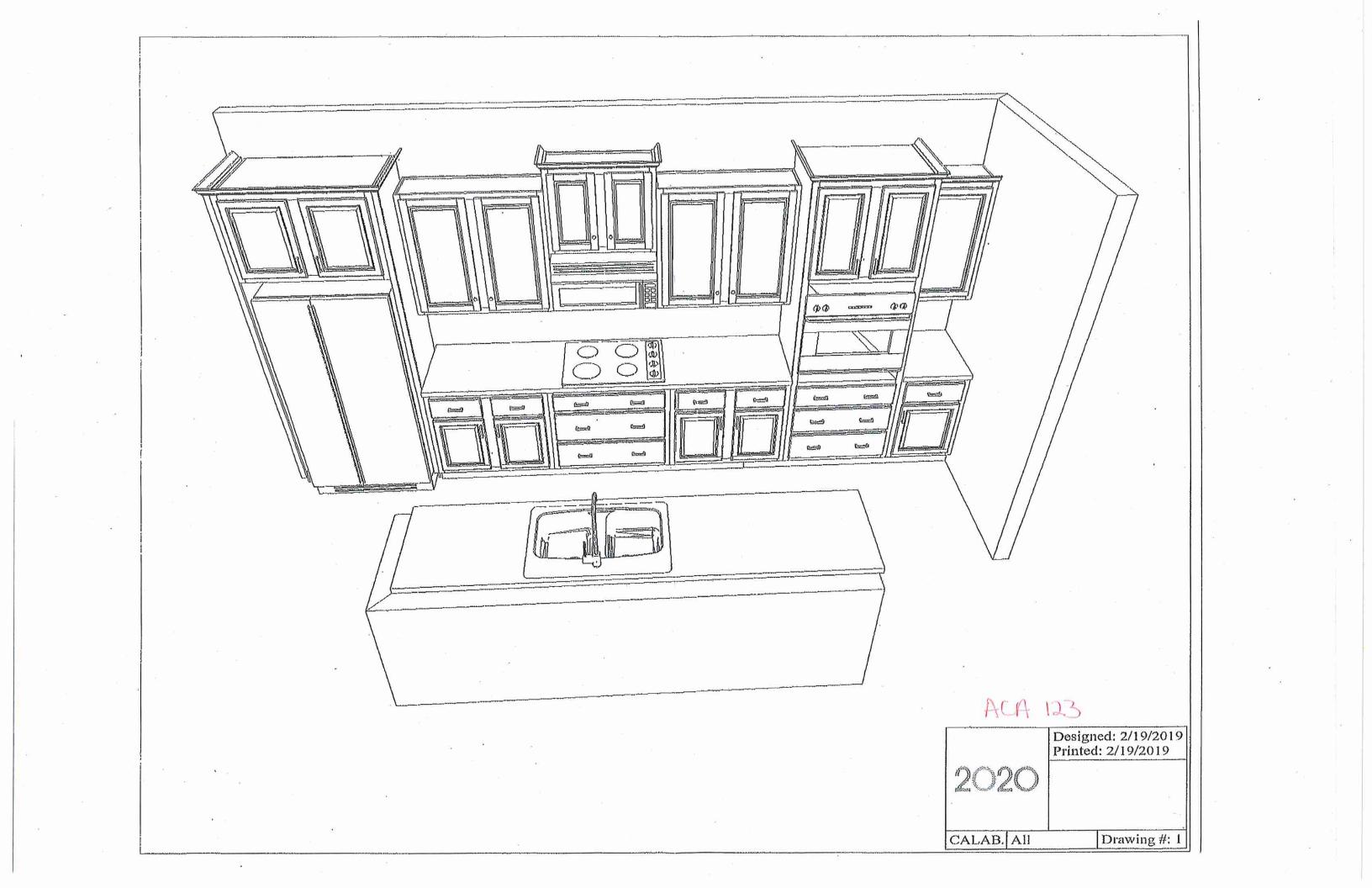
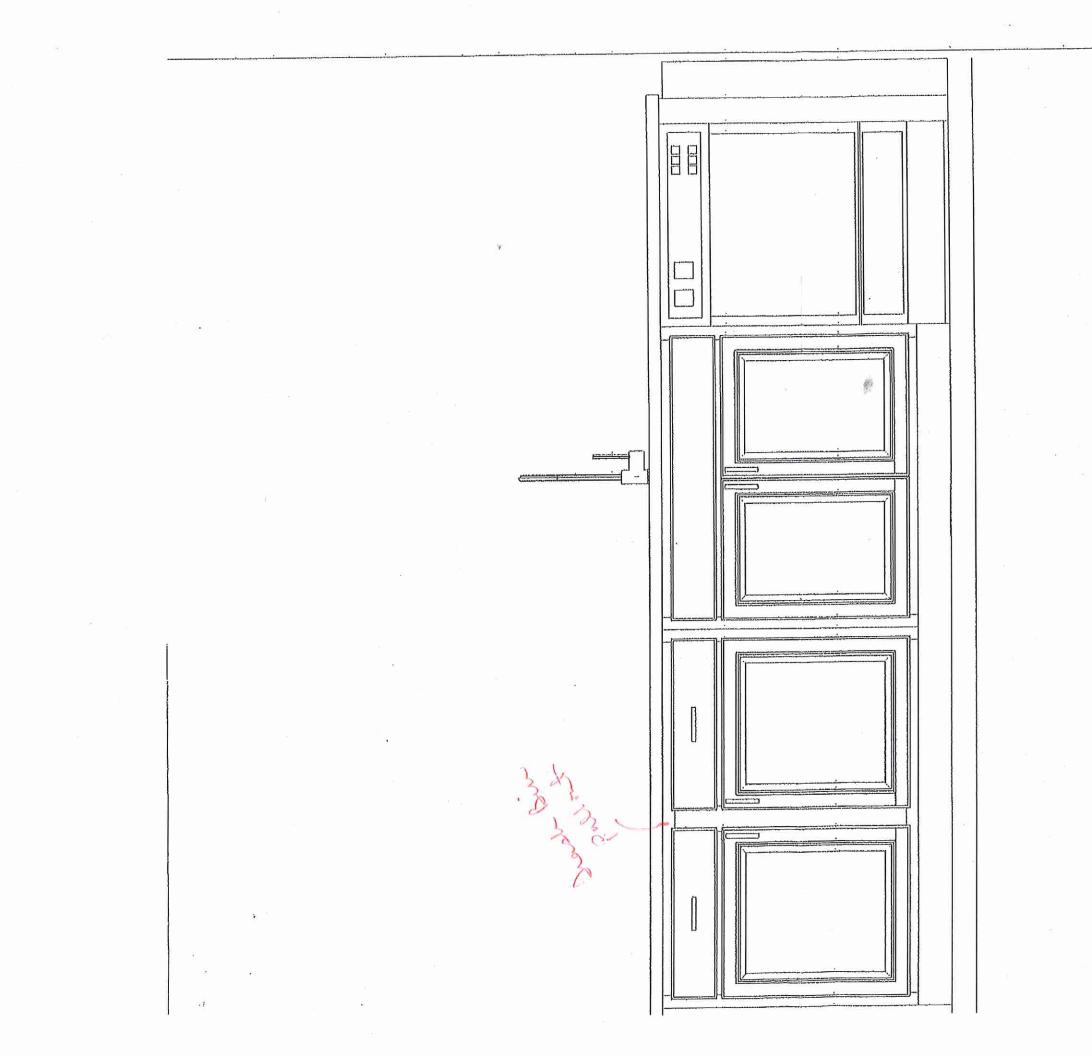
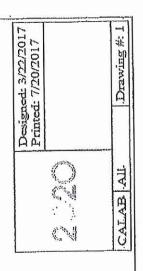


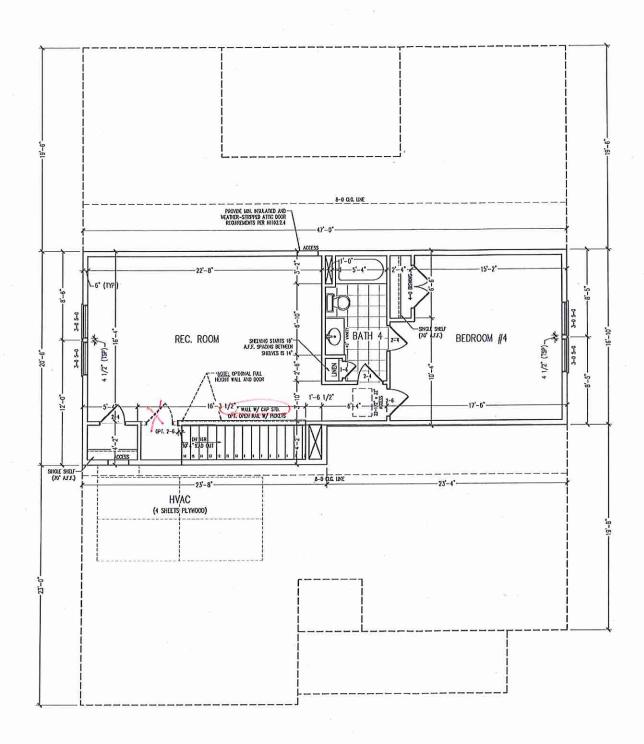
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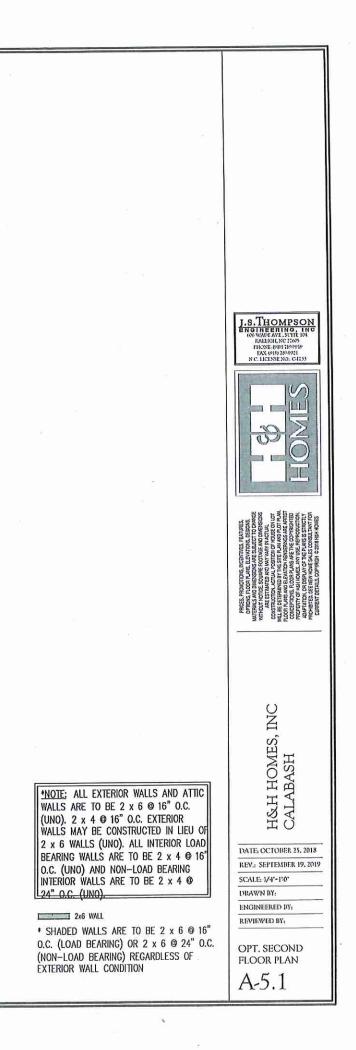


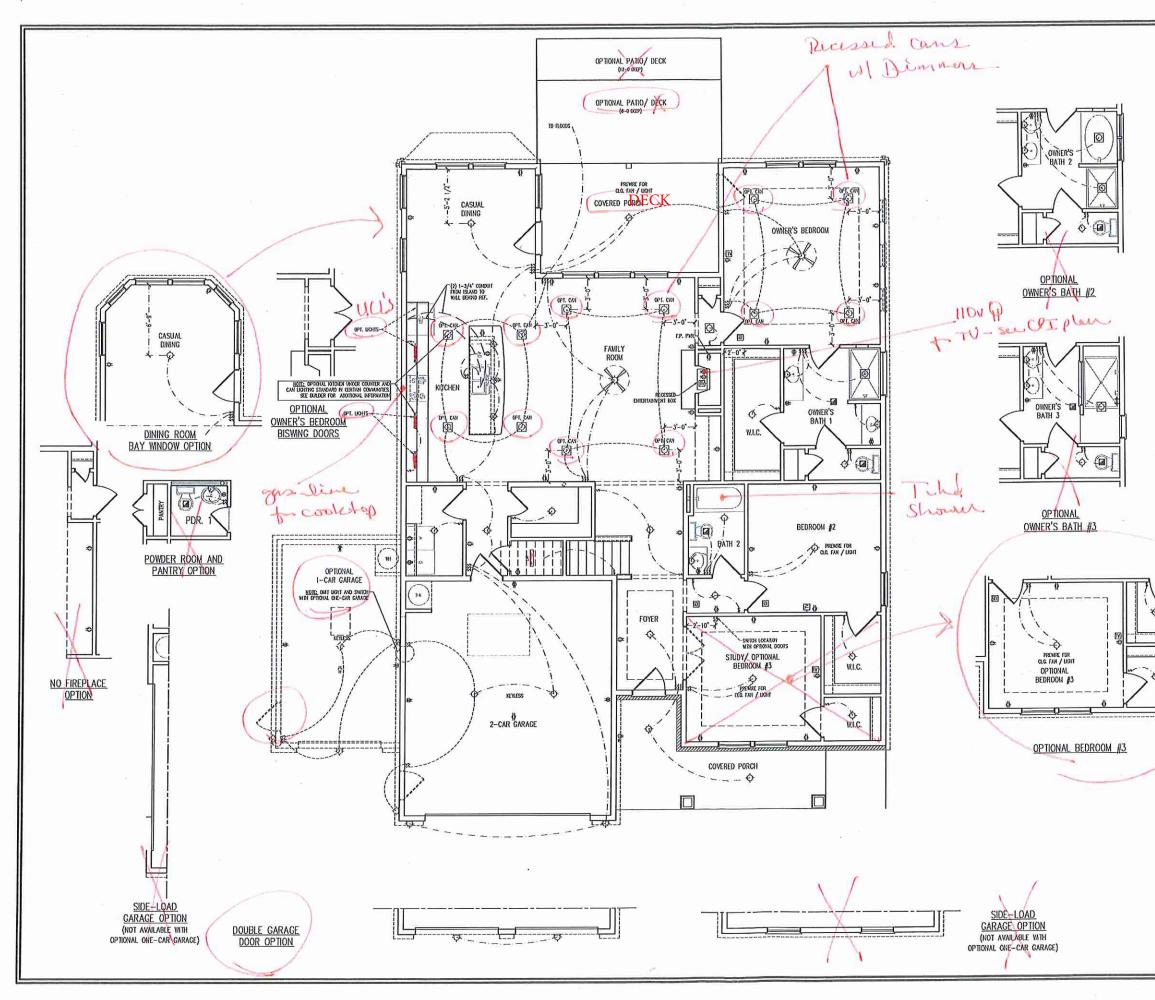


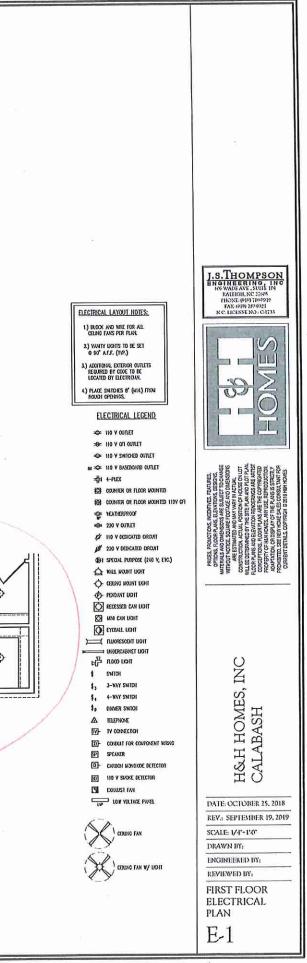


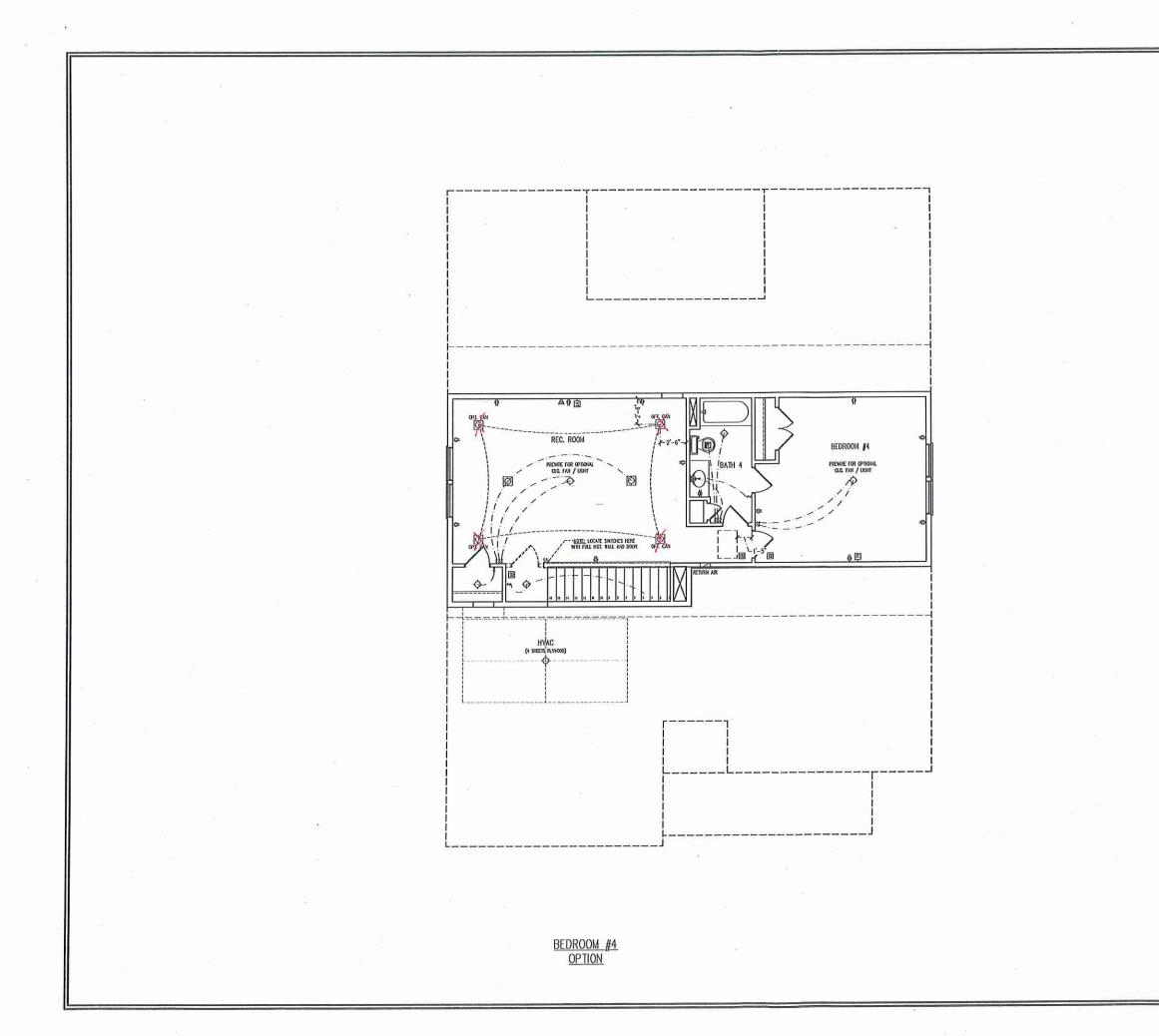


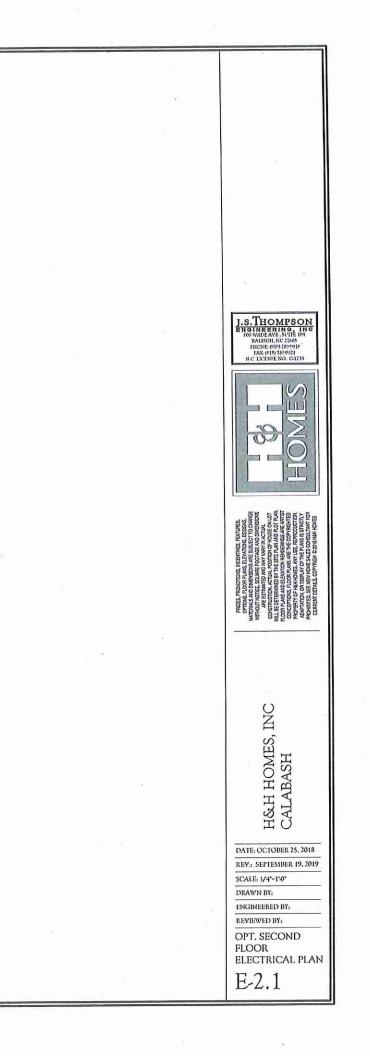
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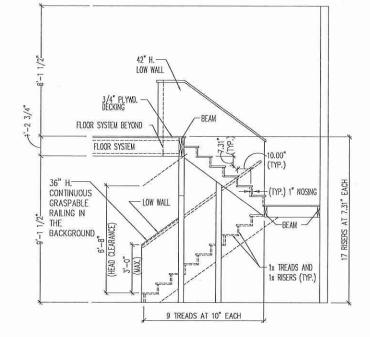




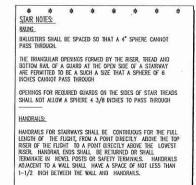


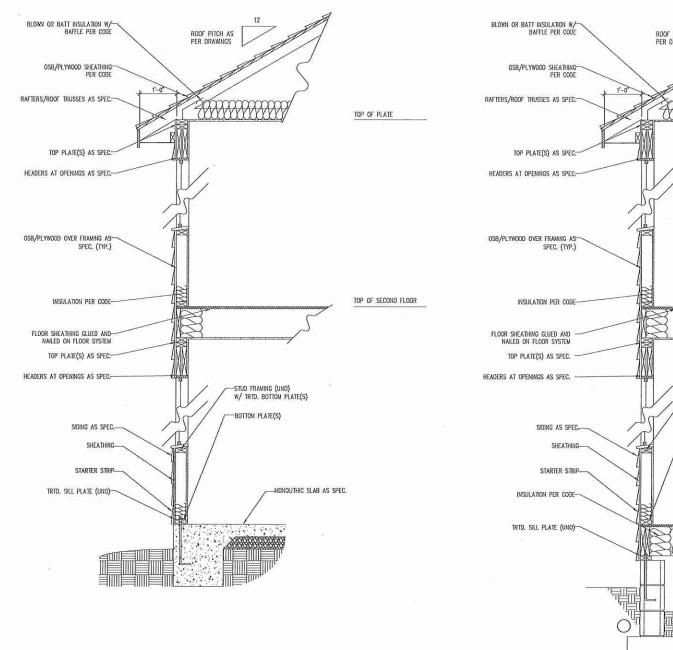




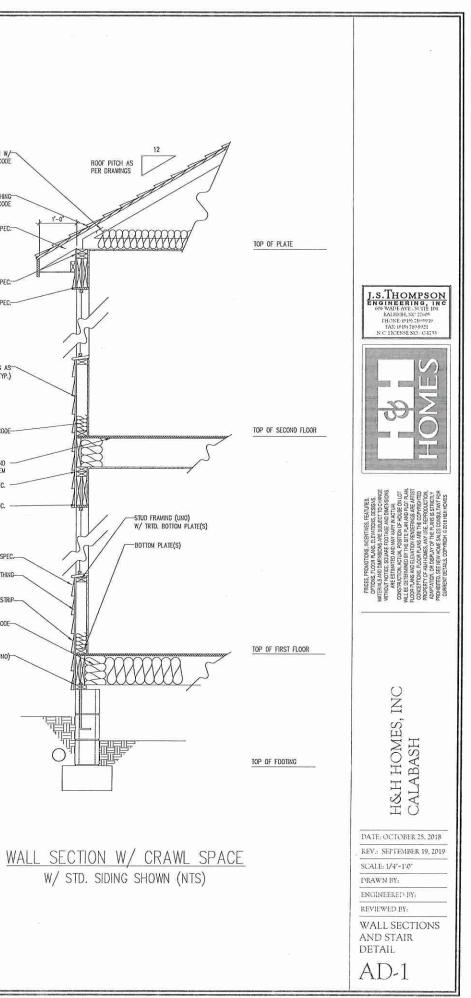


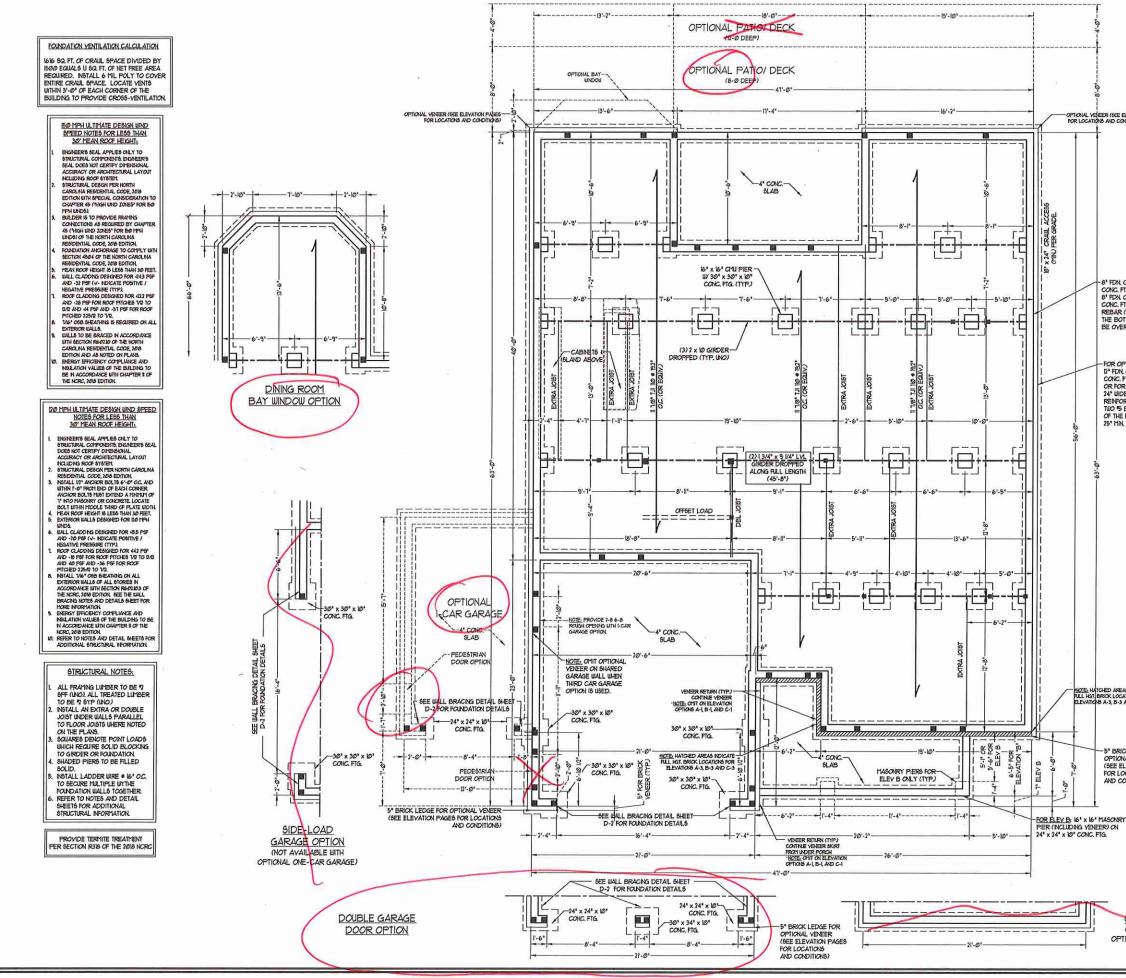




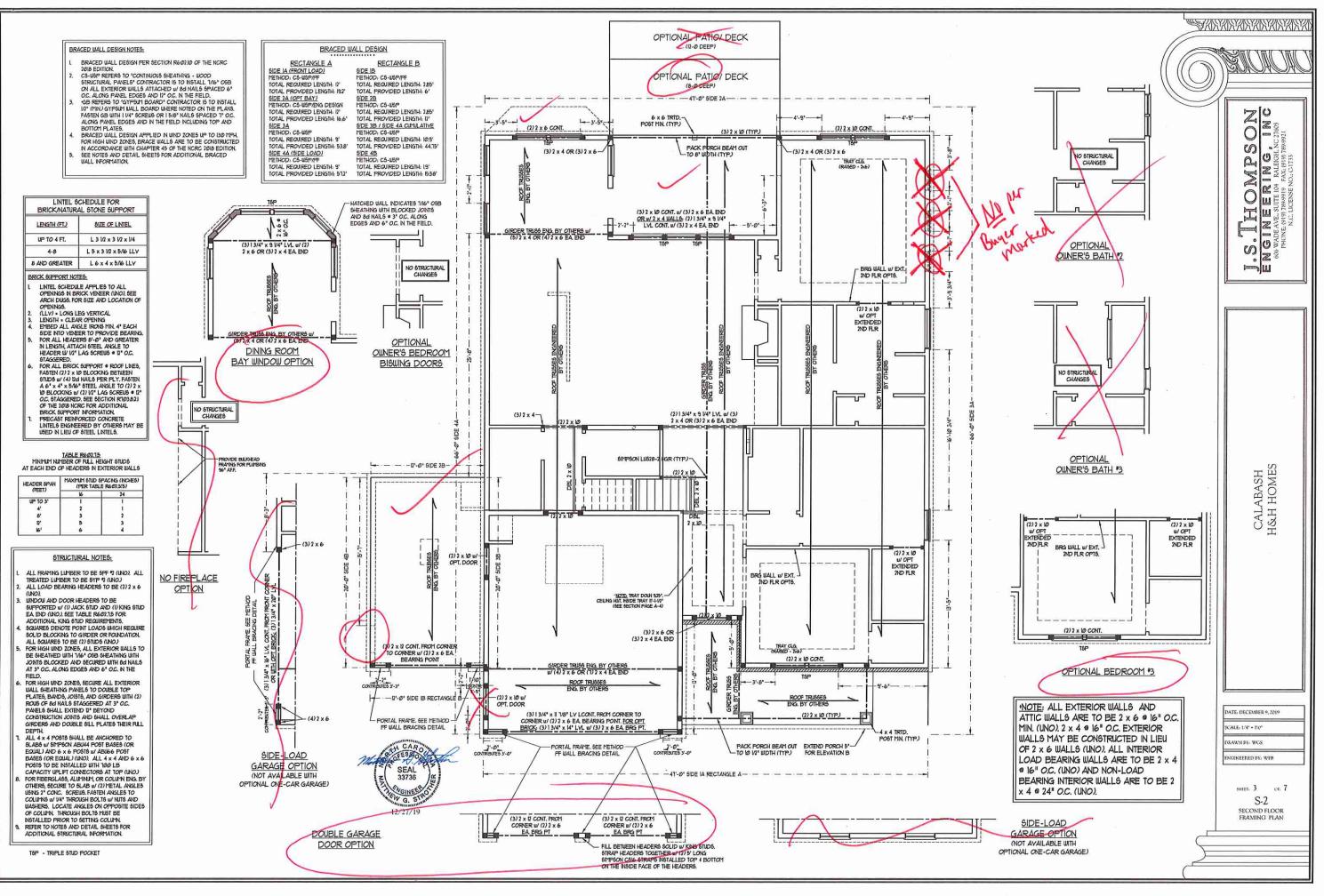


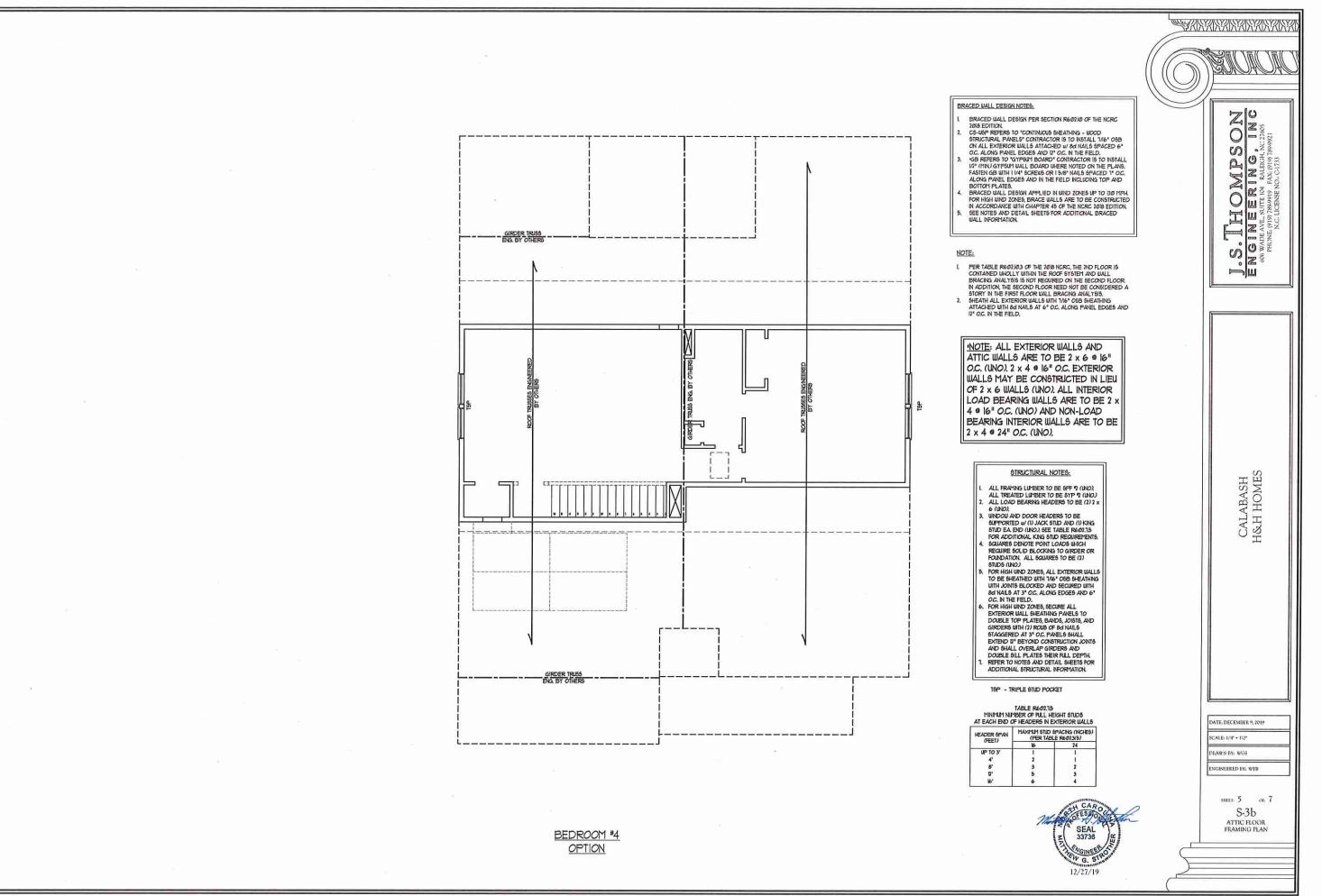
WALL SECTION W/ SLAB W/ STD. SIDING SHOWN (NTS)

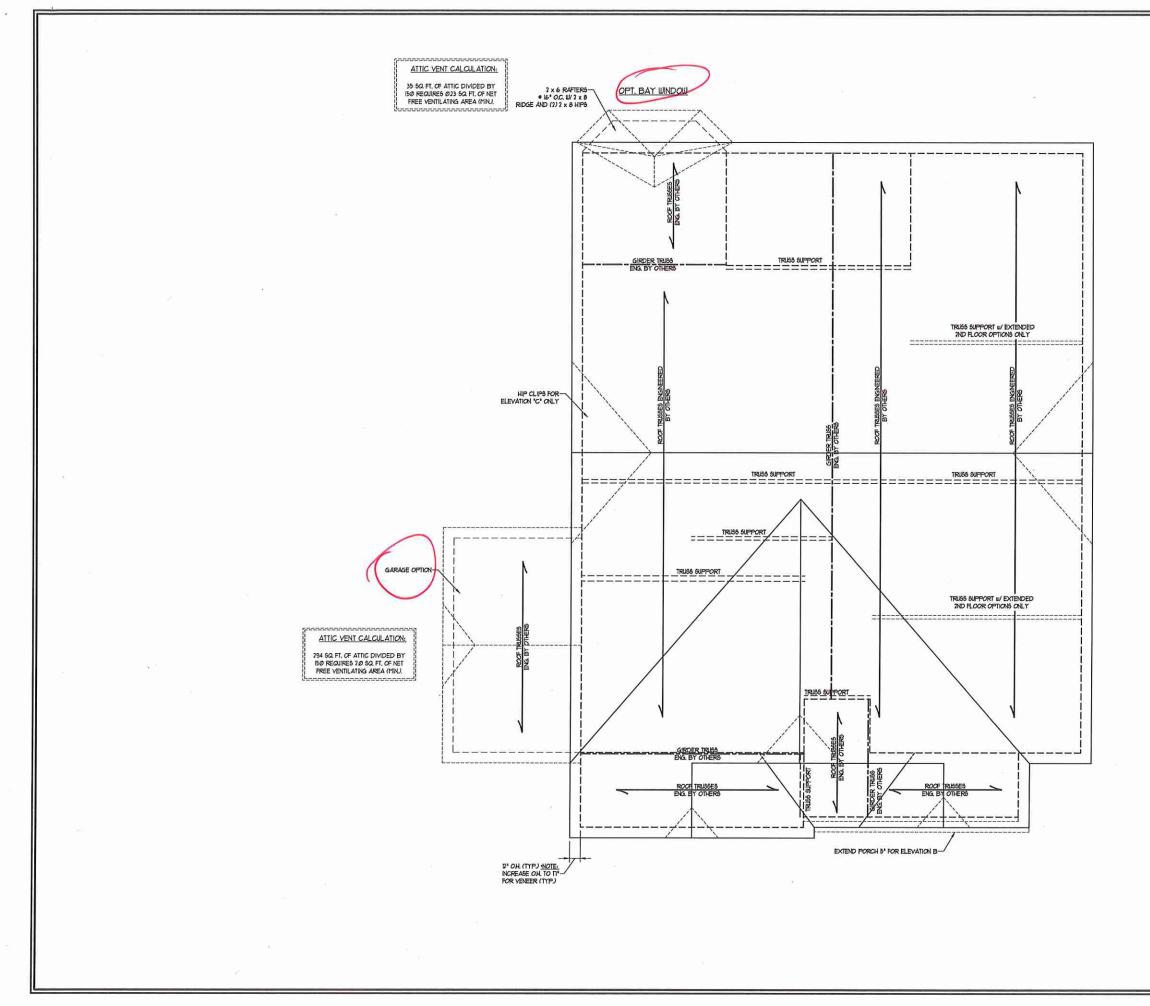


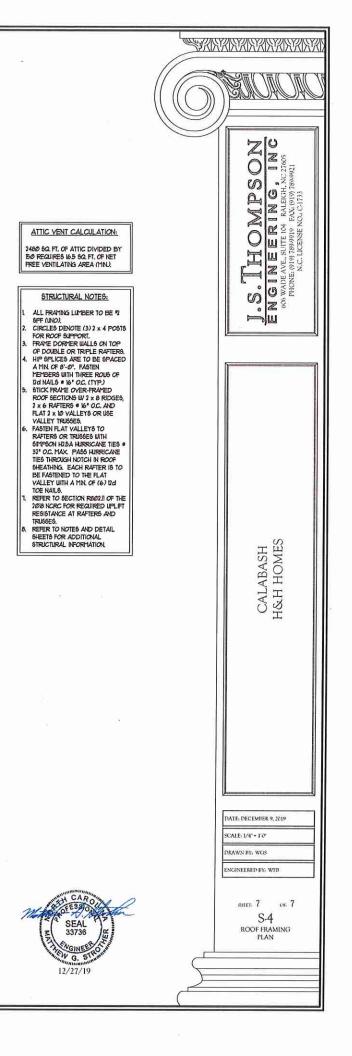


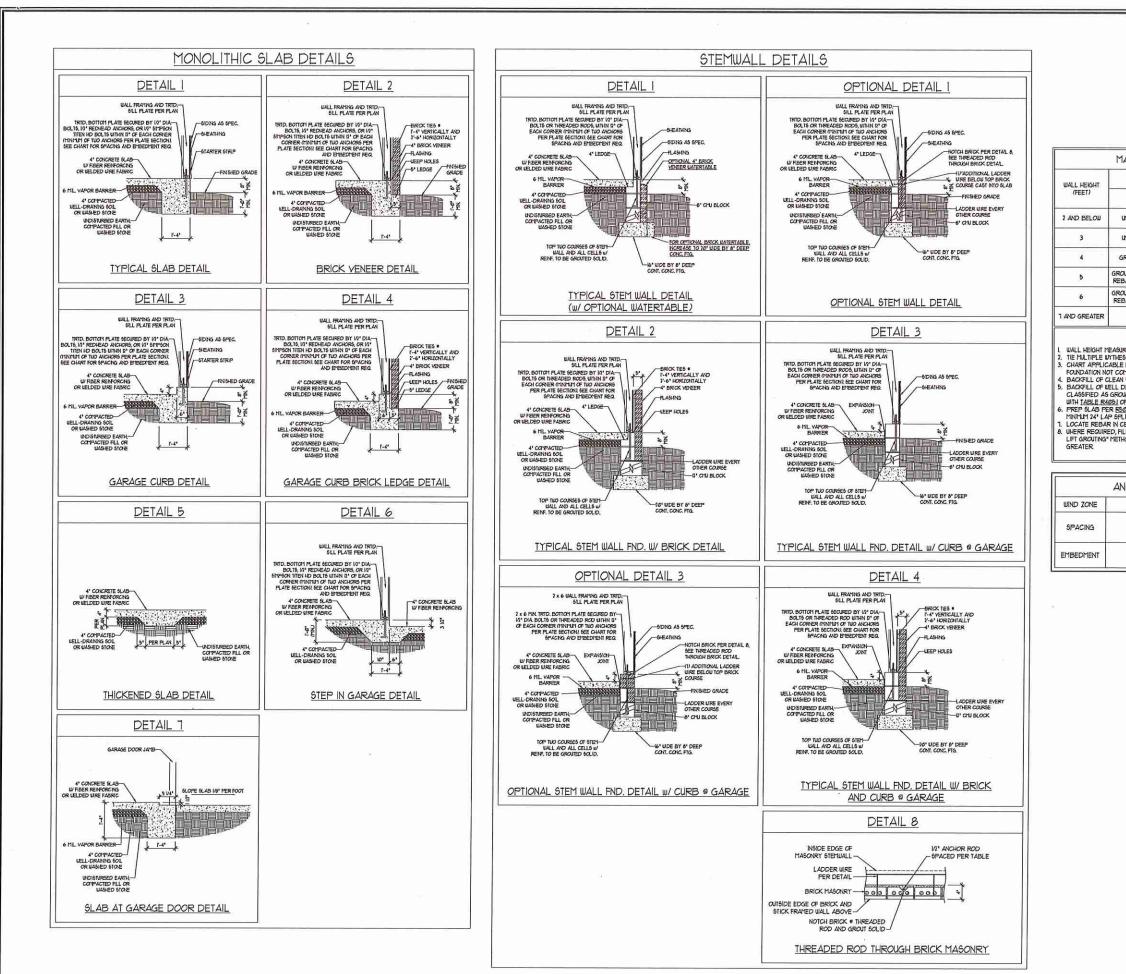
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| EE ELEVATION PAGES CONTROLS) | S. THOMPSON NGINEERING, INC 666 WAE AVE, SUITE 104 KALECH, NC 2705 PHONE (919) 759-9921 NGL (LICENSE NO.2 (713) |
| N. CN 16" WIDE BY 8" DEEP CONT. 5. FIG. (TYP), CR FOR "HIGH WIDO TOXES" N. CN 14" WIDE BY 8" DEEP CONT. 5. FIG. RENFORCED #" THREE "4 AR (CR TWO % BARS) AT 3" ABOVE 30TCH (CR THE FIG. SPLICES MUST VERLAPPED 25" MN. (TYP.) | L S C L |
| OPTIONAL BRICK DR CN 10" WDE BY 8" DEEP CONT. C. FIG. (17P. FOR BRICK YENEER) TOR "High WDD CARES" (1" FDN. CN WDE BY 8" DEEP CONT. CONC. FIG. FORCED WITH THREE 4 KERBAR (OR % BLAGE) AT 3" ABOVE THE BOTTCM HE FIG. 6PLICES MUST BE OVERLAPPED TN. (TYP.) | |
| | CALABASH H&H HOMES |
| REAS NOICATE OCATORS FOR 1-3 AND C-3 | |
| NICK LEDGE FOR (AVAL VENEER E LEVATION PAGES LOCATIONS) | DATE: DECEMBER 9, 2019 SCALE: 1/4* - 1/4* |
| NRY N | DRAWN BY: WGS |
| SIDE-LOAD GARAGE OPTION (NOT AVAILABLE WITH 12/27/19 | SRIT. 1 CF. 7 S-1a CRAWL FOUNDATION PLAN |
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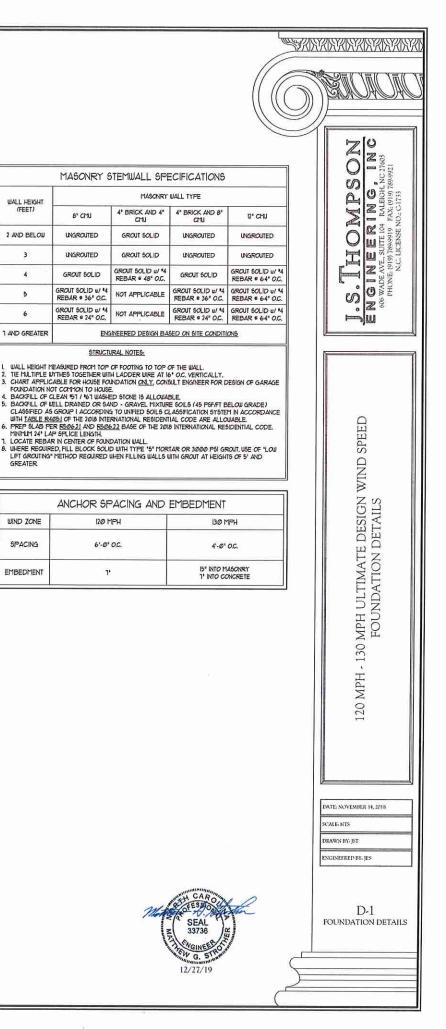


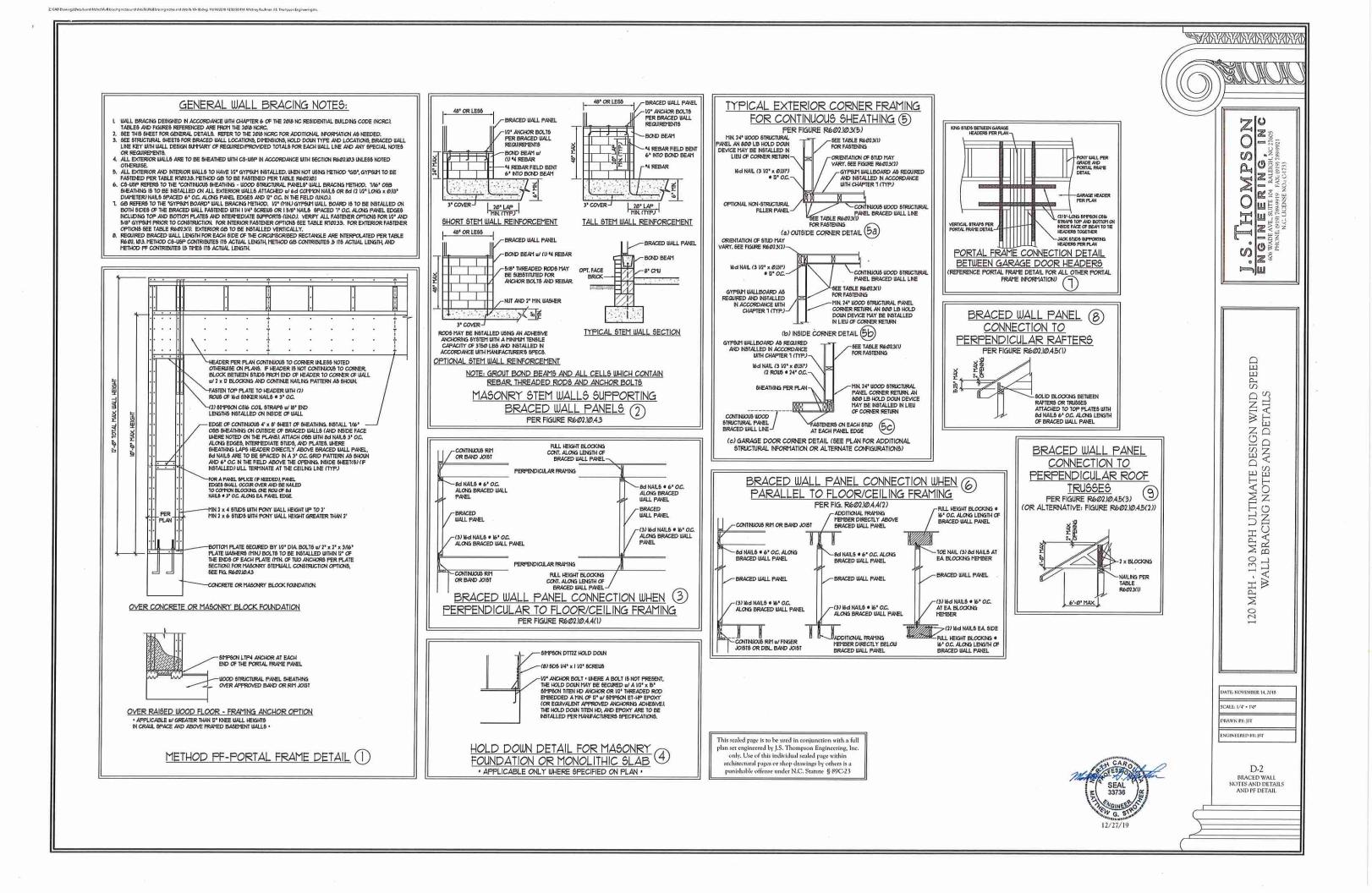






2: CAD Drawings/Details and Notes/Foundation Details/H&H_bundation details_11+12.0xg.4/2/2019 11953 FM, Whitney Judines. 25 Thomps





Z: CAD Drawings/Details and Notes/Standard Notes/Standard Structural Notes (0-18 drig 11/14/2018 12:53:43 PM, Whitney Faultinet 15: Thompson Engineering Faultinet

GENERAL NOTES

- 1 ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS, HEADERS, COLUMS, CANTILEVERS, OFFSET LOAD BEARING MALLS, PIERS, GIRDER SYSTEM AND FOOTING. ENGINEERS SEAL DOES NOT CERTIFY DMENSIONAL ACCURACY OF ARCHITECTURAL LAYOUT INCLUDING ROOF, ENGINEERS SEAL DOES NOT AFFLY TO 1-JOIST OR FLOOR/ROOF TRUSS I AYOUT DESKIN AND ACCURACY
- 2. ALL CONSTRUCTION 6HALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE (NORC), 2018 EDITION, PLUS ALL LOCAL CODES AND REGILATIONS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK. NOR WILL THE ENGINEER BE REAPONSIBLE FOR THE CONTRACTORS FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE

3. STRUCTURAL DESIGN BASED ON THE PROVISIONS OF THE NCRC, 2018 EDITION (R3014 - R301.1)

| DESIGN CRITERIA: | LIVE LOAD (PSF) | DEAD LOAD (PSF) | DEFLECTION (IN) |
|--------------------------------|--|-----------------|-----------------------------------|
| ATTIC WITH LIMITED STORAGE | 20 | 10 | L/240 (L/360 w/ BRITTLE FINISHES) |
| ATTIC WITHOUT STORAGE | 10 | 10 | L/36Ø |
| DECKS | 40 | 10 | L/36Ø |
| EXTERIOR BALCONIES | 40 | 10 | L/36Ø |
| FIRE ESCAPES | 40 | 10 . | L/36Ø |
| HANDRAILS/GUARDRAILS | 200 LB OR 50 (PLF) | Ø | L/36Ø |
| PASSENGER VEHICLE GARAGE | 50 | 10 | L/36Ø |
| ROOMS OTHER THAN SLEEPING ROOM | 40 | 10 | L/36Ø |
| SLEEPING ROOMS | 30 | 10 | L/36Ø |
| STAIRS | 40 | Ø | L/36Ø |
| WIND LOAD | (BASED ON TABLE R30(2(4) WIND ZONE AND EXPOSURE) | | |
| GROUND ENOU LOAD: Pg | 20 (PSF) | | |

- 1-JOIST SYSTEMS DESIGNED WITH 12 PSF DEAD LOAD AND DEFLECTION (N) OF L/480 - FLOOR TRUSS SYSTEMS DESIGNED WITH IS PSF DEAD LOAD

4. FOR 15 AND 120 MPH WIND ZONES, FOUNDATION ANCHORAGE 15 TO COMPLY WITH SECTION R40316 OF THE NORC, 2018 EDITION, FOR 130 MPH 140 MPH, AND 150 MPH WIND ZONES, FOUNDATION ANCHORAGE 15 TO COMPLY WITH SECTION 4504 OF THE NORC, 2018 EDITION.

5. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NORC, 2018 EDITION.

FOOTING AND FOUNDATION NOTES

- 1 FOUNDATION DEGISIN BASED ON A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF. CONTACT GEOTECHNICAL ENGINEER IF BEARING APACITY IS NOT ACHIEVED.
- 2. FOR ALL CONCRETE & ABS AND FOOTINGS, THE AREA WITHIN THE PERMETER OF THE BUILDING ENVELOPE SHALL HAVE ALL VEGETATION TOP FOR ALL CORCRETE SLABS AND FOOTINGS, THE AREA WITHIN THE PERFETER OF THE BUILDING BYNELOFE BHALL MAYE ALL VEGETATION, TO SOLL AND DRORGMINATERAL REPOYDED. THL MATERALL SHALL BE FREE OF VEGETATION AND FOREIGN MATERAL. THE FILL SHALL BE CORPACTED TO ASSURE INFORT SUPPORT OF THE SLAB, AND EXCEPT WERE APPROVED, THE FILL DEPTHS SHALL NOT EXCEED 24' FOR CLEAN SAND OR GRAVEL A 4' THICK BASED CONSE CONSETTING OF CLEAN GRADED SAND OR GRAVEL SHALL BE FLACED. A BASE CONSET IS NOT REQUIRED WERE A CONCRETE SLAB IS INSTALLED ON WELL-DRANED OR SAND-GRAVEL MAYEL DE PLACED. A BASE GROUP I, ACCORDING TO THE UNITED SOIL CLASSFICATION SYSTEM IN ACCORDANCE WITH TABLE R4051 OF THE NCRC, 2018 EDITION
- PROPERLY DEWATER EXCAVATION PRIOR TO POURING CONCRETE WHEN BOTTOM OF CONCRETE \$4.48 IS AT OR BELOW WATER TABLE. F APPLICABLE, 3/4" I" DEEP CONTROL JOINTS ARE TO BE SAUED WITHIN 4 TO 12 HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE BEEN MARKED, ADJUST WHERE NECESSARY,
- 4. CONCRETE SHALL CONFORM TO SECTION R4022 OF THE NORC, 2018 EDITION. CONCRETE RENFORCING STEEL TO BE ASTM ASIB GRADE 60. UELDED WRE FABRIC TO BE ASTM AIBS. MANTAN A MINIMM CONCRETE COVER AROUND RENFORCING STEEL OF 3" IN FOOTINGS AND 1 /2" N 8LASS. FOR POINED CONCRETE WALLS, CONCRETE COVER FOR RENFORCING STEEL HEASINED FROM THE INSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 3/4". CONCRETE COVER FOR RENFORCING STEEL MEASINED FROM THE UNDEF FACE OF THE WALL SHALL NOT BE LESS THAN 1 /2" FOR 'S BARS OR SMALLER, AND NOT LESS THAN 2" FOR 'S BARS OR LARGER.
- MASONRY UNITS TO CONFORM TO ACE 538/ASCE 5/THS 482. MORTAR SHALL CONFORM TO ASTH C210.
- 6. THE UNSUPPORTED HEIGHT OF MASONRY PIERS SHALL NOT EXCEED FOUR TIMES THEIR LEAST DIMENSION FOR UNFILLED HOLLOU CONCRETE MASONRY INITS AND TEN TIMES THEIR LEAST DIMENSION FOR SOLID OK SOLID FILLED PIERS, PERS MAY BE FILLED SOLID UTH CONCRETE OR TYPE H OR & MORTAR PIERS AND WALLS SHALL BE CAPPED WITH 8' OF SOLID MASONRY.
- THE CENTER OF EACH OF THE PIERS SHALL BEAR IN THE MIDDLE THIRD OF IT'S RESPECTIVE FOOTING, EACH GIRDER SHALL BEAR IN THE MIDDLE THIRD OF THE PIERS.
- & ALL CONCRETE AND MASONRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE ALL CONCRETE AND MASCRET FONDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE UITH THE FROMOSIONS OF SECTION RAVIO OF THE INCR. 2018 EDITION OF IN ACCORDANCE WITH ACI 38, ACI 333, NOTA TREE-A OR ACE 530/ASCE 50THS 402, TABONET FONDATION WALLS ARE TO BE REPORTED FOR TABLE RAVAIUN, RAVAIUS, RAVAIUS, OR RAVAIUA OF THE NOR2, 2018 EDITION. CONCRETE FONDATION WALLS ARE TO BE REINFORCED FER TABLE RAVAIUS JO THE INCR. 2018 EDITION. STEP CONCRETE FONDATION WALLS TO 2 x 6 FRAMED WALLS AT 16* OC. WHERE GRADE FERMITIS (MO).

FRAMING NOTES

- 1 ALL FRAMMS LUMBER SHALL BE 12 6FF MINIMUM (Fb = 815 P6), Fv = 315 P6), E = 1600000 P6)(INLESS NOTED OTHERUISE (INO). ALL TREATED LUMBER SHALL BE 12 5YP MINIMUM (Fb = 915 P6), Fv = 175 P6), E = 1600000 P6)(INLESS NOTED OTHERUISE (INO).
- LAMNATED VENEER LIMBER (LVL) 64ALL HAVE THE FOLLOUNS MINIMUM PROPERTIES: For \$2600 P6I, FV = 785 P6I, E = 1500000 P6I, LAMNATED 6TRAND LIMBER (L6L) 6HALL HAVE THE FOLLOUNS MINIMUM PROPERTIES: For \$2500 P6I, E = 15500000 P6I, PARALLEL 5TRAND LIMBER (P6I,) UP TO THE POLIDING MINIMUM PROPERTIES: For \$2500 P6I, E = 15000000 P6I. PARALLEL STRAND LUMBER (FBL) MORE THAN 1" DEPTH SHALL HAVE THE FOLLOWING MINITUM PROPERTIES: FG • 29/00 F61, E • 20/00/00/ F61. INSTALL ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS.
- 3. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS
 - W AND WT SHAPES: ASTM A992 CHANNELS AND ANGLES: ASTM A36

- PLATES AND BARS ASTM A36
- HOLLOW STRUCTURAL SECTIONS: ASTM A500 GRADE B
- ASTM A53, GRADE B, TYPE E OR S STEEL PIPE
- 4. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 (2) AND RUL FLANGE WIDTH (INO), FROMDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED AT THE BOTTOM FLANGE TO EACH SUPPORT AS FOLLOUS (UNO)

| A WOOD FRAMING | (2) 1/2" DIA x 4" LONG LAG SCREUS |
|----------------------------|---|
| B. CONCRETE | (2) 1/2" DIA x 4" WEDGE ANCHORS |
| C. MASONRY (FULLY GROUTED) | (2) 1/2" DIA x 4" LONG SIMPSON TITEN HD ANCHORS |

LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOISTS ARE TOE NAILED TO THE 2x NAILER ON TOP OF THE STEEL BEAM, AND THE 2x NAILER IS SECURED TO THE TOP OF THE STEEL BEAM W/ (2) ROUS OF SELF TAPPING SCREUS & IS* O.C. OR (2) ROUS OF I/2* DIA/ETER BOLTS . 16" OC. IF 1/2" BOLTS ARE USED TO FASTEN THE NAILER, THE STEEL BEAM SHALL BE FABRICATED w/ (2) ROUS OF 9/6" DIAMETER

- 5. SQUARES DENOTE POINT LOADS UNICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION SHADED SQUARES DENOTE POINT LOADS FROM ABOVE UNICH REQUIRE SOLID BLOCKING TO SUPPORTING MEMBER BELOW.
- 6. ALL LOAD BEARING HEADERS TO CONFORM TO TABLE R602.1(1) AND R602.1(2) OF THE NORC, 2016 EDITION OR BE (2) 2 x 6 WITH (1) JACK AND (1) KING STUD EACH END (UNO), WHICHEVER IS GREATER ALL HEADERS TO BE SECURED TO EACH JACK STUD WITH (4) EA NAILS, ALL BEAMS TO BE SUPPORTED WITH (2) STUDS AT EACH BEARING PONT (UNO). INSTALL KING STUDS PER SECTION R6/02.15 OF THE NORTH ROLINA RESIDENTIAL CODE, 2018 EDITION
- ALL BEAMS, HEADERS, OR GIRDER TRUSSES PARALLEL TO WALL ARE TO BEAR FULLY ON (1) JACK OR (2) STUDS MINIMUM OR THE NUMBER OF JACKS OR STUDS NOTED, ALL BEAMS OR GIRDER TRUSSES PERFENDICULAR TO WALL AND SUPPORTED BY (3) STUDS OR LESS ARE TO HAVE 1 /2" MINIMUM BEARING (INO). ALL BEAMS OR GIRDER TRUSSES PERFENDICULAR TO WALL AND SUPPORTED BY MORE THAN (3) STUDS OR OTHER NOTED COLUMN ARE TO BEAR FULLY ON SUPPORT COLUMN FOR ENTIRE WALL DEPTH (MO), BEAM ENDS THAT BUIT INTO ONE ANOTHER ARE TO EACH BEAR EQUAL LENGTHS (UNO).
- A. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING 1/2" DIAMETER BOLTS (ASTM A301) WITH WASHERS PLACED AT THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" CENTERS (MAXIMUM), AND STAGGERED AT TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH (2) BOLTS LOCATED AT 6" FROM EACH END (UNC
- ALL I-JOIST OR TRUSS LAYOUTS ARE TO BE IN COMPLIANCE WITH THE OVERALL DESIGN SPECIFIED ON THE PLANS. ALL DEVIATIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO INSTALLATION.
- 10, BRACED WALL PAKELS SHALL BE CONSTRUCTED ACCORDING TO THE NORTH CAROLINA RESIDENTIAL CODE 2008 EDITION WALL BRACING CRITERIA THE AYONT, LENGTH, AND LOCATION OF BRACING SHALL COMPLY WITH ALL APPLICABLE TABLES IN SECTION RE021/2.
- PROVIDE DOUBLE JOIST UNDER ALL WALLS PARALLEL TO FLOOR JOISTS. PROVIDE SUPPORT UNDER ALL WALLS PARALLEL TO FLOOR TRUSSES OR 1-JOISTS PER MANJFACTURER'S SPECIFICATIONS. INSTALL BLOCKING BETWEEN JOISTS OR TRUSSES FOR POINT LOAD SUPPORT FOR ALL POINT LOADS ALONG OFFSET LOAD LINES.
- 12. FOR ALL HEADERS SUPPORTING BRICK VENEER THAT ARE LESS THAN 8'-0' IN LENGTH, REST A 6' x 4' x 5/6' STEEL ANGLE WITH 6' MINIMUM EPBED/TENT AT SIDES FOR BRICK SUPPORT (UN.O). FOR ALL HEADERS 8'-0' AND GREATER IN LENGTH, ROLT A 6' x 4' x 5/6' STEEL ANGLE TO HEADER WITH IV' LAG SCREWS AT 12' O.C. STAGGERED FOR BRICK SUPPORT, FOR ALL BRICK SUPPORT AT ROOF LINES, BOLT A 6' x 4' x 5/6" STEEL ANGLE TO (2) 2 x /0 BLOCK/NG INSTALLED // (4) 1/24 NAULS EA, PLY BETWEEN WALL STUDS WITH (2) ROWS OF 1/2" LAG SCREWS AT 12" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION RT03821 OF THE NCRC, 20/8 EDITION.
- B. FOR STICK FRAMED ROOPS, CIRCLES DENOTE (3) 2 x 4 POSTS FOR ROOF MEMBER SUPPORT. HIP SPLICES ARE TO BE SPACED A MINIMUM OF 8'-0". FASTEN MEMBERS WITH THREE ROUS OF IZE MAILS AT 16" OC. FRAME DORFER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS AS SHOIN (INO)
- H. FOR TRUSSED ROOFS, FRAME DORMER WALLS ON TOP OF 2 x 4 LADDER FRAMING AT 24" OC. BETWEEN ADJACENT ROOF TRUSSES, STICK RAME OVER-FRAMED ROOF SECTIONS WITH 2 x 8 RIDGES, 2 x 6 RAFTERS AT 16" O.C. AND FLAT 2 x 10 VALLEYS (UN
- 5 ALL 4 x 4 AND 6 x 6 EQ515 TO BE INSTALLED WITH TWO LE CARACITY HELET CONNECTORS TOR AND ROTION (INC) EQ515 MAY RE-ECHEP USAS ONE SHIPSON HE OR LISE UPLET CONCECTOR FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POST. ONE Is' SECTION OF SHIPSON CSIG COIL STRAPPING WITH (6) BAI HOG AND AT DEE USED IN LIEU OF EACH TWIST STRAP IF DESIRED. FOR MASONRY OR CONCRETE FOUNDATION USE SIMPSON POST BASE.

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