

COMMERCE BLVD.
FLORIDA, 32801

RELEASE DATE:

JANUARY 10, 2023

TERMITE SPECIFICATIONS

SECTION R318 PROTECTION AGAINST TERMITES

TERMITE PROTECTION SHALL BE PROVIDED BY REGISTERED TERMITICIDES, INCLUDING SOIL APPLIED PESTICIDES, BAITING SYSTEMS, AND PESTICIDES APPLIED TO WOOD, OR OTHER APPROVED METHODS OF TERMITE PROTECTION LABELED FOR USE AS PREVENTIVE TREATMENT TO NEW CONSTRUCTION (SEE SECTION 202, REGISTERED TERMITICIDES). UPON COMPLETION OF THE APPLICATION OF THE TERMITE PROTECTIVE TREATMENT, A CERTIFICATE OF COMPLIANCE SHALL BE ISSUED TO THE BUILDING DEPARTMENT BY THE LICENSED PEST CONTROL COMPANY THAT CONTAINS THE FOLLOWING STATEMENT: "THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE ESTABLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES." PREVENTION OF SUBTERRANEAN TERMITES. TREATMENT IS IN ACCORDANCE WITH RULES AND LAWS

NOTES:

- 1. METHOD OF TREATMENT SHALL BE APPROVED BY THE GOVERNING JURISDICTION. LIQUID PRODUCT APPROVAL DATA MUST BE ON FILE WITH THE BUILDING DEPARTMENT. BORATE OR BORAX-COR PRODUCT METHODS MUST BE DETERMINED AT PERMIT STAGE AND 2. PRESSURE TREATED LUMBER THAT HAS BEEN CUT OR DRILLED THAT EXPOSES UNTREATED PORTIONS OF WOOD ARE REQUIRED TO BE FIELD TREATED TO PREVENT INSECT INFESTATION. 3. OPTIONAL BORATE APPLIED TO ALL FRAME MEMBERS WITHIN 24" A.F.F.

- NOTICE TO BUILDER AND ALL SUBCONTRACTORS -

IT IS THE INTENT OF THE ENGINEER LISTED IN THE TITLEBLOCK OF THESE DOCUMENTS THAT THESE DOCUMENTS BE ACCURATE, PROVIDING LICENSED PROFESSIONALS CLEAR INFORMATION. EVERY ATTEMPT HAS BEEN MADE TO PREVENT ERROR. THE BUILDER AND ALL SUBCONTRACTORS ARE REQUIRED TO:

- 1. REVIEW ALL THE INFORMATION CONTAINED IN THESE DOCUMENTS, PRIOR TO THE COMMENCEMENT OF ANY WORK. THE ENGINEER IS NOT RESPONSIBLE FOR ANY PLAN ERRORS, OMISSIONS, OR MISINTERPRETATIONS UNLESS THEY ARE NOT REPORTED TO THE ENGINEER PRIOR TO CONSTRUCTION. 2. SHALL STRICTLY OBSERVE ALL APPLICATION CODES DURING THE COURSE OF CONSTRUCTION INCLUDING ALL STATE, CITY, AND COUNTY BUILDING, ZONING, ELECTRICAL, MECHANICAL, PLUMBING AND FIRE CODES. CONTRACTOR SHALL VERIFY ALL CODE REQUIREMENTS PRIOR TO COMMENCEMENT OF WORK. 3. THE ARCHITECT/ENGINEER SHALL NOT BE RESPONSIBLE FOR SAFETY PROCEDURES, THE MEANS AND METHODS OF CONSTRUCTION, TECHNOLOGIES, OR THE CONSTRUCTION TO CARRY OUT THE WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS OR RELATED CODES. 4. THE FRAMING PLAN SHOWN INDICATES THE "TRUSS SYSTEM" AND IS THE RESPONSIBILITY OF THE TRUSS SYSTEM ENGINEER (DESIGN PROFESSIONAL OF RECORD). THE TRUSS DESIGN ENGINEER (DELEGATED ENGINEER) HAS FINAL RESPONSIBILITY FOR EACH INDIVIDUAL TRUSS AND TRUSS PROFILE, AND IS TO SUBMIT A FINAL SET OF TRUSS ENGINEERING SIGNED AND SEALED TRUSS DRAWINGS TO DESIGN PROFESSIONAL OF RECORD FOR REVIEW PRIOR TO FABRICATION. 5. ANY DISCREPANCY OR ERROR IN DIMENSIONS OR NOTES WITH THIS PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN PROFESSIONAL FOR CLARIFICATION PRIOR TO CONSTRUCTION. 6. ALL CONSTRUCTION MUST BE IN ACCORDANCE TO THE INFORMATION FOUND IN THESE DOCUMENTS. ANY QUESTIONS REGARDING THE INFORMATION FOUND IN THESE PLANS SHOULD BE DIRECTED TO OUR QUALITY ASSURANCE MANAGER AT 321-971-0861 IMMEDIATELY. NO BACK CHARGES WILL BE CONSIDERED FOR REIMBURSEMENT BY THE ENGINEER WITHOUT ADVANCED NOTIFICATION AND APPROVAL BY THE ENGINEER. PAYMENTS WILL BE MADE IN ACCORDANCE TO THE TERMS OF THE AGREEMENT.

PER FBC 2020 7TH EDITION, RESIDENTIAL VOLUME R702.1.1: LATH AND LATHING SHALL BE OF CORROSION-RESISTANT MATERIALS. EXPANDED METAL OR WOVEN WIRE LATH SHALL BE ATTACHED WITH 1/2" LONG (32MM) 16 GAUGE NAILS HAVING A 3/16" (4.8MM) HEAD OR 1/2" LONG (22.2MM) 16 GAUGE STAPLES SPACED IN ACCORDANCE WITH ASTM C926.3 OR C1181, OR AS OTHERWISE APPROVED.

CONCRETE CURING AND TESTING

CURING: PROTECT CONCRETE FOR 7 DAYS AGAINST MOISTURE LOSS, RAPID TEMPERATURE CHANGE, MECHANICAL INJURY AND INJURY FROM RAIN OR FLOWING WATER. MAINTAIN CONCRETE IN MOIST CONDITION AT TEMPERATURE ABOVE 50 DEGREES F, THROUGHOUT SPECIFIED CURING PERIOD. PROTECT FROM RAPID TEMPERATURE CHANGE AND RAPID DRYING FOR FIRST 24 HOURS FOLLOWING REMOVAL OF TEMPERATURE PROTECTION. START CURING ACTIVITIES AS SOON AS FREE WATER HAS DISAPPEARED FROM SURFACES OF CONCRETE AFTER PLACING AND FINISHING.

TESTING: CONCRETE TESTING FOR THIS PROJECT SHALL BE PAID FOR BY OWNER, AND SHALL CONSIST OF COMPRESSIVE TESTS MADE BY THE LABORATORY IN ACCORDANCE WITH ASTM C-31. FOLLOW ASTM C31 AND MAKE A SET OF SIX (6) STANDARD CYLINDERS FOR EACH 100 CU. YDS. OR FOR EACH DAYS POUR EXCEEDING 5 CU. YDS. TEST PER ASTM C39 AS FOLLOWS: TWO (2) SPECIMENS TESTED AT SEVEN (7) DAYS, ONE (1) AT 14 DAYS, TWO (2) TESTED AT 28 DAYS, AND ONE (1) HELD IN RESERVE. SLUMP TEST SHALL BE MADE IN ACCORDANCE WITH ASTM C-143 FOR EACH DAYS POUR, FOR EACH LOAD, OR AS DIRECTED BY ARCHITECT/ENGINEER.

REINFORCING STEEL

REINFORCING STEEL SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A615-GRADE 60, EXCEPT THAT NEW BILLET STEEL CONFORMING TO ASTM A615-GRADED 40 MAY BE USED FOR COLUMN TIES AND BEAMS STIRRUPS. ALL DETAILING AND ACCESSORIES SHALL CONFORM TO TYPICAL DETAILS SHOWN IN THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE" STRUCTURES ACI 315, LATEST EDITION.

ALL CONTINUOUS VERTICAL OR HORIZONTAL BARS IN FOOTINGS, FOUNDATIONS WALLS, SLABS AND OTHER CONCRETE SHALL BE LAP-SPLICED, WHERE NECESSARY OR DESIRABLE, BY WIRING TOGETHER IN CONTACT, LENGTH OF ALL #5 LAPS SHALL BE 40-BAR DIAMETERS OR 2'-1" MINIMUM, WHICHEVER IS GREATER (EXCEPT AS NOTED BY DRAWINGS). ALL BARS AT END OF CONTINUOUS FOOTINGS OR BEAMS SHALL BE CONT. TO FAR SIDES OF INTERSECTING ELEMENTS.

ALL SLABS ON GRADE SHALL BE 4" THICK AND REINFORCED WITH 6 X 6 - W/4 X W/4 W.W.F. UNLESS OTHERWISE NOTED. LAP FABRIC @ AT EDGES AND ENDS AND PROVIDE ADDITIONAL REINFORCING WHERE SHOWN ON DRAWINGS. PLACE MESH IN CENTER OF SLAB. MOISTURE BARRIER BENEATH FLOOR SLABS SHALL BE 6 MIL POLYETHYLENE. USE FLAT SHEETS OF WELDED WIRE FABRIC. ROLLS WILL NOT BE PERMITTED.

FOUNDATIONS

GEOTECHNICAL ENGINEERING EVALUATION AND SUBSURFACE EXPLORATION SHALL PERFORM BY OWNER'S GEOTECHNICAL CONSULTANT.

MAXIMUM ALLOWABLE SOIL PRESSURE IS ASSUMED TO BE 2000 POUNDS PER SQUARE FOOT. SPREAD FOOTINGS SHALL BEAR ON SOIL COMPACTED TO A DENSITY OF AT LEAST 95 % OF MODIFIED PROCTOR MAXIMUM DENSITY (A.S.T.M. D1557), FOR ALL REQUIRED FILL AND FOR AT LEAST 1'-0" BELOW FINISHED FLOOR UNLESS MORE STRINGENT REQUIREMENTS ARE RECOMMENDED BY OWNERS GEOTECHNICAL CONSULTANT.

GENERAL STRUCTURAL NOTES

CAST IN PLACE REINFORCED CONCRETE

- 1. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 3000 PSI (SLABS) 3000 PSI (COLUMNS AND BEAMS), A SLUMP OF 5" PLUS OR MINUS 1", AND HAVE 2 TO 5% AIR ENTRAINMENT, AND A MAXIMUM WATER/CEMENT RATIO OF 0.63 2. HOOKS SHALL BE PROVIDED AT DISCONTINUOUS ENDS OF ALL TOP BARS OF BEAMS. 3. HORIZONTAL FOOTING BARS SHALL BE BENT 20° AROUND CORNERS OR CORNER BARS WITH A 25' LAP PROVIDED EA WAY. 4. WELDED COVER MIN. 3" WHEN EXPOSED TO EARTH OR 1 1/2" TO FORM U.O. 5. CONCRETE WIRE FABRIC SHALL CONFORM TO ASTM A1064/A1064M. W.W.F. SHALL BE LAPPED AT LEAST 6" AND CONTAIN AT LEAST ONE CROSS WIRE WITHIN THE 6". POLYPROPYLENE FIBERS FOR SLABS ON GRADE TO BE MIN 1.5 LBS OF FIBER PER CUBIC YARD 6. ALL REINFORCING STEEL / STIRRUPS AND TIES SHALL BE NEW DOMESTIC DEFORMED BARS FREE FROM RUST, SCALE & OIL & SHALL MEET ASTM A615/ A615M GRADE 40 U.O. N.O. REINFORCING FOR FOOTING SHALL BE SUPPORTED ON PRE-CAST CONCRETE PADS, STEEL WIRE OR PLASTIC SUPPORT. TOP REINFORCING SHALL BE POSITIVELY SUPPORTED BY TEMPORARY STRINGERS. DOWELS FOR COLUMNS & FILLED CELLS SHALL BE SECURED IN PLACE BY USING ADDITIONAL CROSS REINFORCING TIED TO FOOTING REINFORCING. SPLICES IN REINFORCING WHERE PERMITTED SHALL BE AS PER DETAIL MS05L1. 7. HIGH STRENGTH SIMPSON SET EPOXY-TIE WAS USED IN THE DESIGN OF THIS PRODUCT. IF CONTRACTORS WISH TO USE A DIFFERENT EPOXY, THEY MUST FIRST CONTACT THE ENGINEER OF RECORD FOR WRITTEN APPROVAL. 8. WHERE PROJECT IS TO BE LOCATED IN KNOWN RADON GAS PREVALENT AREAS, APPENDIX "I" OF THE FLORIDA BUILDING CODE 7TH EDITION, 2020 IS TO BE IMPLEMENTED. F303.4 CONCRETE STRENGTH IN THESE AREAS ARE TO BE A MINIMUM OF 3000 P.S.I., THEREFORE, ANY AND ALL NOTES ON THESE PLANS THAT INDICATE 2500 P.S.I. SHALL BE REPLACED WITH 3000 P.S.I. FOR THE CONCRETE STRENGTH.

MASONRY

- 1. HOLLOW LOAD BEARING UNITS SHALL BE NORMAL WEIGHT, GRADE N, TYPE 2, CONFORMING TO ASTM C90-014, WITH A MINIMUM NET COMPRESSIVE STRENGTH OF 1900 PSI (Fm = 1500 PSI) 2. MORTAR SHALL BE TYPE "S", CONFORMING TO ASTM C270-12A. 3. COARSE GROUT SHALL CONFORM TO ASTM C476 WITH A MAXIMUM AGGREGATE SIZE OF 3/8" AND A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 3000 PSI SLUMP OF 7" TO 11" CONTAINING 3% AIR ENTRAINMENT DURING CONSTRUCTION. 4. GRADE 40 U.O. VERTICAL REINFORCEMENT SHALL BE AS NOTED ON THE DRAWINGS WITH THE CELLS FILLED WITH COARSE GROUT. 5. GRADE 40 U.O. VERTICAL REINFORCEMENT SHALL BE HELD IN POSITION AT THE TOP AND BOTTOM AND AT A MAXIMUM SPACING OF 192 DIA OR 10FT WHICH EVER IS LESS. REINFORCING SHALL BE PLACED IN THE CENTER OF THE MASONRY CELL WITH MIN 1/2" CLEARANCE TO INSIDE FACE. 6. REINFORCING STEEL SHALL BE LAPPED PER DETAIL MS01.1, UNLESS OTHERWISE NOTED ON THE DRAWINGS. 7. GROUT STOP SHALL BE PROVIDED BELOW BOND BEAM, PLASTIC SCREEN, METAL LATH STRIP OR CAVITY CAPS MAY BE USED TO PREVENT THE FLOW OF GROUT INTO CELLS BELOW. THE USE OF FELT PAPER AS A STOP IS PROHIBITED. 8. TEMPORARY BRACING AND SHORING OF WALL TO PROVIDE STABILITY DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR 9. TYPICAL FILLED CELL REINFORCING SIZE AND SPACING SHALL BE ABOVE AND BELOW ALL WALL OPENINGS 10. DO NOT APPLY UNIFORM LOADS TO MASONRY WALLS FOR (3) DAYS AND NO CONCENTRATED LOADS FOR (7) DAYS. PER CODE ACI 318-14 11. CONSOLIDATE POURS EXCEEDING 12' IN HEIGHT BY MECHANICAL VIBRATION, AND RECONSOLIDATE BY MECHANICAL VIBRATION AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURRED. GROUT SHALL BE FLUSH WITH TOP OF WALL.

WOOD

- 1. ALL EXTERIOR WOOD STUDS WALLS, BEARING WALLS, SHEAR WALLS, AND MISC. STRUCTURAL WOOD FRAMING MEMBERS (I.E. BLOCKING OR CABLE END BRACING) SHALL BE EITHER AS SPECIFIED IN PLAN OR IN DETAILS. IF CONFLICTS OCCUR BETWEEN PLAN AND DETAILS, THE STRONGEST MATERIAL SHALL BE USED. AT A MINIMUM, ALL WOOD STRUCTURAL FRAMING MEMBERS SHALL BE SPF #2. 2. ALL LUMBER SPECIFIED ON DRAWINGS ARE INTENDED FOR DRY USE ONLY (MOISTURE CONTENT 19% OR LESS). U.O. ALL WATERPROOFING AND FIRE SAFETY SYSTEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE TO BE DESIGNED AND DETAILED BY OTHERS. 3. ANY WOOD FRAME INTERIOR BEARING WALL STUDS THAT HAVE HOLES IN THE CENTER OF THE STUD UP TO 1" DIA. SHALL HAVE STUD PROTECTION SHIELDS. ALL HOLES OVER 1" IN DIA. FOR PLUMBING LINES, ETC. SHALL BE REPAIRED WITH SIMPSON HISS2 STUD SHOES.TYP. U.O. 4. MANY OF THE NEW PRESURE TREATED WOODS USE CHEMICALS THAT ARE CORROSIVE TO STEEL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE TYPE OF WOOD TREATMENT AND TO SELECT APPROPRIATE CONNECTORS THAT RESIST CORROSION. FOR EXAMPLE, ACC-C, ACC-D, CBA-A OR CBA-B REQUIRE HOT-DIPPED GALVANIZED OR STAINLESS STEEL FASTENERS. DOT SODIUM BORATE (SBX) DOES NOT. 5. ALL EXPOSED WOOD OR WOOD IN CONTACT WITH EARTH OR CONCRETE TO BE PRESURE TREATED. 6. UNTREATED WOOD SHALL NOT BE IN DIRECT CONTACT WITH CONCRETE OR MASONRY. SEAT PLATES SHALL BE PROVIDED AT BEARING LOCATIONS WITHOUT WOODEN TOP PLATES. 7. SEE PLAN FOR STUD PACK AND BEAM NAILING PATTERNS. 8. ALL ENGINEERED LUMBER TO HAVE THE FOLLOWING MIN VALUES U.O. PARALLAM COLUMNS: 1.8E Fb = 2400 PSI MICROLAM LVL(BEAMS: 2.0E Fb= 2600 PSI) LULLAM BEAMS: SPS#P 24EVL LVLUP (1.7E FB=2400 PSI) MIN. 9. SEE PLAN NOTE FOR ADDITIONAL ROOF, WALL, SHEAR WALL AND FLOOR SHEATHING REQUIREMENTS ALONG WITH NAILING INFORMATION OTHERWISE: 9.1. ROOF DECK: PLYWOOD C-C/C-D, EXTERIOR OR OSB 9.2. FLOOR SHEATHING: TAG C-C GROUP 1, APA RATED (4824) SHEATHING SHALL FINISH FLUSH TO EXTERIOR WALL FACE. 9.3. WALL SHEATHING: 7/16" STRUCTURAL I OSB EXPOSURE 1 OR 1/2" RATED OSB EXPOSURE 1. A MINIMUM 8" SPACE IS RECOMMENDED BETWEEN PANELS AT EDGE AND END JOINTS TO ALLOW FOR EXPANSION. PER R604.3 SHEATHING SHALL NOT BE USED AS WEATHER RESISTANCE BARRIER UNLESS SPECIFIED.

UPLIFT CONNECTORS

- 1. UPLIFT CONNECTORS SUCH AS HURRICANE CLIPS, TRUSS ANCHORS AND ANCHOR BOLTS ARE ONLY REQUIRED ON MEMBERS IN WALLS THAT ARE EXPOSED TO UPLIFT OR LATERAL FORCES. INTERIOR LOAD BEARING WALLS ARE NOT ALWAYS EXPOSED TO UPLIFT FORCES. THE MEMBERS OF THESE WALLS WOULD NOT NEED TO HAVE CONNECTORS APPLIED. PLEASE COORDINATE WITH THE TRUSS ENGINEER FOR THE LOCATION OF THESE WALLS AND STRUCTURAL PLANS FOR MORE INFO.

STRUCTURAL STEEL

- 1. MATERIAL SPECIFICATIONS: WIDE FLANGE SECTIONS: ASTM A992, GRADE 50, Fy=50 KSI TUBE STEEL (HSS): ASTM A500, GRADE B, Fy = 46 KSI PIPE STEEL: ASTM A53, TYPE B, SCH 40, Fy = 35 KSI STEEL: A36 STEEL: A36 Fy=36 KSI STRUCTURAL CONNECTIONS: ALL STRUCTURAL BOLTS TO BE A325 U.O. 2. STRUCTURAL BOLTS SMALLER THAN 5/8" DIA. TO BE A307 THREADED ROD SHALL CONFORM TO A36 OR A307 ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 ALL BOLTS CAST IN CONCRETE: ASTM A36 OR ASTM A-307 SHOP AND FIELD WELDS: E70XX ELECTRODES STEEL REINFORCEMENT SHOP DRAWINGS TO BE PROVIDED TO ENGINEER OF RECORD BEFORE FABRICATION FOR REVIEW AND APPROVAL. 3. STRUCTURAL CONNECTIONS: ALL STRUCTURAL BOLTS TO BE A325 U.O. ALL A325N BOLTS SHALL BE BROUGHT TO A "SNUG-TIGHT" CONDITION, AS DEFINED IN THE SPECIFICATION. SLIP CRITICAL (SC) BOLTS MUST BE FULLY TENSIONED PER SPECIFICATION STRUCTURAL BOLTS SMALLER THAN 5/8" DIA. TO BE A307 THREADED ROD SHALL CONFORM TO A36 OR A307 ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 ALL BOLTS CAST IN CONCRETE: ASTM A36 OR ASTM A-307 SHOP AND FIELD WELDS: E70XX ELECTRODES STEEL REINFORCEMENT SHOP DRAWINGS TO BE PROVIDED TO ENGINEER OF RECORD BEFORE FABRICATION FOR REVIEW AND APPROVAL. 4. WELDING FOR PRE-ENGINEERED WOOD TRUSSES SHALL BE AS REQUIRED BY THE TRUSS MANUFACTURER UNLESS NOTED ON THE PLANS. 5. STRUCTURAL STEEL SHALL RECEIVE SHOP COAT OF PRIMER (COLOR AS DIRECTED BY ARCHITECT) EXCEPT FOR AREAS WHICH WILL RECEIVE SPRAY-ON FIRE PROTECTION. 6. A CERTIFIED TESTING AGENCY SHALL BE ENGAGED TO PERFORM INDUSTRY STANDARD INSPECTIONS TO ENSURE CONFORMANCE WITH PLANS AND SPECIFICATIONS (IF PROVIDED). SUBMIT REPORTS TO ARCHITECT AND ENGINEER.

PRE ENGINEERED WOOD TRUSSES

- 1. ALL PREFABRICATED WOOD TRUSSES SHALL BE SECURELY FASTENED TO THEIR SUPPORTING WALLS OR BEAMS WITH HURRICANE CLIPS OR ANCHORS PER STRUCTURAL PLAN 2. PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE "NATIONAL DESIGN SPECIFICATION FOR STEEL-GRADE LUMBER AND ITS FASTENERS" AS RECOMMENDED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION. 3. TRUSS MEMBERS AND CONNECTIONS SHALL BE PROPORTIONED (WITH A MAXIMUM ALLOWABLE STRESS INCREASE FOR LOAD DURATION OF 25%) TO WITHSTAND THE LIVE LOADS GIVEN IN THE NOTES AND TOTAL DEAD LOAD. 4. BRIDGING FOR PRE-ENGINEERED WOOD TRUSSES SHALL BE AS REQUIRED BY THE TRUSS MANUFACTURER UNLESS NOTED ON THE PLANS. 5. TRUSS ELEVATIONS AND SECTIONS ARE FOR GENERAL CONFIGURATION OF TRUSSES ONLY. WEB MEMBERS ARE NOT SHOWN, BUT SHALL BE DESIGNED BY THE TRUSS MANUFACTURER IN ACCORDANCE WITH THE FRAMING DESIGN LOADS. 6. DESIGN SPECIFICATIONS FOR LIGHT WEIGHT METAL PLATE CONNECTED WOOD TRUSSES PER THE TRUSS PLATE INSTITUTE TPI LATEST EDITION. 7. PRE-ENGINEERED WOOD TRUSSES SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH SPECIFIED LOADS AND GOVERNING CODES. SUBMITTALS SHALL INCLUDE TRUSS FRAMING PLANS AND DETAILS SHOWING MEMBER SIZES, BRACING, ANCHORAGE, CONNECTIONS, TRUSS LOCATIONS, AND PERMANENT BRACING AND/OR BRIDGING AS REQUIRED FOR ERECTION AND FOR THE PERMANENT STRUCTURE. EACH SUBMITTAL SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED STRUCTURAL ENGINEER. SUBMIT 3 COPIES FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. 8. THE TRUSS MANUFACTURER SHALL DETERMINE ALL SPANS WORKING POINTS, BEARING POINTS, AND SIMILAR CONDITIONS. TRUSS SHOP DRAWINGS SHALL SHOW ALL TRUSSES, ALL BRACING MEMBERS, AND ALL TRUSS TO TRUSS HANGERS.

FIELD REPAIR NOTES

- 1. MISSED "X" BOLTS FOR WOOD BEARING WALLS MAY BE SUBSTITUTED WITH 1/2" DIA. EPOXY ANCHORS WITH 7" EMBEDMENT. SIMPSON "SET" EPOXY ADHESIVE BINDER FOLLOWING ALL MANUFACTURER'S RECOMMENDATIONS OR SIMPSON 1/2" TITEN HD BOLTS WITH MINIMUM 7" EMBEDMENT. SEE PLAN FOR EMBEDMENT DEPTH AT FLOOR STEPS. 2. FOR MISSED VERT. DOWELS, DRILL A 3/4" DIAMETER HOLE 6" DEEP AT THE LOCATION OF THE OMITTED REBAR AND INSTALL A 32" LONG #5 BAR INTO THE EPOXY FILLED HOLE. USE A TWO PART EMBEDMENT EPOXY (SIMPSON HIGH STRENGTH EPOXY-TIE ANCHORING ADHESIVE) MIXED PER THE MANUFACTURER'S INSTRUCTIONS. ASSURE THAT ALL DUST AND DEBRIS FROM DRILLING ARE REMOVED FROM THE HOLE BY BRUSHING AND USING COMPRESSED AIR PRIOR TO APPLYING THE EPOXY. ALLOW THE EPOXY TO CURE TO THE MANUFACTURER'S SPECIFICATIONS, THEN FILL THE CELL IN THE NORMAL WAY DURING BOND BEAM POUR. 3. FOR MORTAR JOINTS LESS THAN 1/4", PROVIDE (1) #5 VERT. IN CONC. FILLED CELL EACH SIDE OF THE JOINT (BAR DOES NOT HAVE TO BE CONT. TO FOOTING). 4. MISSED LINTEL STRAPS FOR MASONRY CONSTRUCTION MAY BE SUBSTITUTED WITH (1) SIMPSON MSTM16 W/16" STRAP W/ (4) 1/2"x2" TITEN'S TO MASONRY AND (7)-10d NAILS TO TRUSS FOR UPLIFTS LESS THAN 860 LBS (USE (2) MSTM16 FOR UPLIFTS LESS THAN 1720#). IF CORNER STRAP IS MISSED, CONTRACTOR IS TO INSTALL (2) SIMPSON HGAM10 W/ (4) 1/4" x 1/2" SDS SCREWS AND (5) 1/4" x 1/2" TITEN'S ONE EACH SIDE OF TRUSS. 5. NO MORE THAN 10 STRAPS MAY BE SUBSTITUTED OR NO MORE THAN 3 IN A ROW WITHOUT APPROVAL FROM EOR. IF GIRDER TRUSS CONNECTIONS ARE MISSED, CONTACT THE EOR FOR SUBSTITUTION. 6. IF MISSED, MSTM36 OR MSTM40 STRAP IS MISSED FOR 2ND FLOOR JAMB STUD CONNECTION, CONTRACTOR MAY INSTALL SIMPSON HTTS W/ (26) 16d x 2 1/2" NAILS AND 5/8" ANCHOR BOLT. SET IN SIMPSON HIGH STRENGTH EPOXY W/ MIN 6" EMBEDMENT AND MIN 3" EDGE DISTANCE. CONTACT EOR IF STRAPS ARE MISSED UNDER GIRDER JAMB STUD LOCATIONS.

STRUCTURAL DESIGN CRITERIA

CODE CRITERIA

- FLORIDA BUILDING CODE 7TH EDITION (2020) RESIDENTIAL. - FLORIDA FIRE PREVENTION CODE 7TH EDITION (2020) - FLORIDA BUILDING CODE ACCESSIBILITY 7TH EDITION (2020) - NFPA 70-14, NATIONAL ELECTRICAL CODES, (NEC 2017) & 6TH FBCR CH. 34-43. - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE - (ACI 318-14). - SPECIFICATIONS FOR STRUCTURAL CONCRETE - (ACI 301-10). - BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES - (ACI 530-13). - NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION - 2015 EDITION. - WOOD FRAMED CONSTRUCTION MANUAL 2015 EDITION. - APA PLYWOOD DESIGN SPECIFICATION 2012 EDITION. - AMERICAN SOCIETY OF CIVIL ENGINEERS: ASCES/SEI 7-16 - ALLUMINUM DESIGN MANUAL - 2015 EDITION

GENERAL ROOF LOADING

Table with 4 columns: SHINGLE ROOF (PSF), METAL ROOF (PSF), TILE ROOF (PSF), HEAVY ROOF (PSF). Rows include TOP CHORD LL, TOP CHORD DL, BOTTOM CHORD LL, BOTTOM CHORD DL, TOTAL (PSF), BOTTOM CHORD LL (OPT), ATTICS W/ LIMITED STORAGE, ATTICS W/ HEAVY STORAGE, ATTICS W/ NO STORAGE (NON-CONCURRENT).

NOTE: LL REDUCTIONS ARE ALLOWED PER CODE BUT ONLY WITH WRITTEN APPROVAL FROM EOR OR INDICATED ON PLAN

GENERAL FLOOR LOADING

Table with 2 columns: TOP CHORD LL, TOP CHORD DL, BOTTOM CHORD LL, BOTTOM CHORD DL. Values in (PSF) and comments.

SPECIAL FLOOR LOADING

Table with 2 columns: GAME ROOM / READING ROOMS, BALCONIES/ DECKS, BALCONIES OVER 100 SQ.FT., GUARDRAILS AND HANDRAILS, GUARDRAIL IN-FILL COMPONENTS, STAIRS / NON SLEEPING ROOMS, SLEEPING ROOMS, LIBRARIES - STACK ROOMS. Values in (PSF) and comments.

DEFLECTION CRITERIA

Table with 3 columns: ROOF TRUSSES*, ROOF RAFTERS (W/O CLG), FLOOR TRUSSES/ BEAMS **, FLOOR JOIST***. Values in L/360, L/180, L/240, L/360, L/480, L/240 and comments.

*TL MAX 2" UP TO 40FT SPAN **TL MAX 3/4" ***TL MAX 1/4" DIFFERENTIAL BETWEEN ADJACENT TRUSSES

SHEET INDEX

Table with 2 columns: SHEET NUMBER, SHEET DESCRIPTION. Rows 1-13.

WIND LOADING CRITERIA ASCE 7-16

Table with 2 columns: WIND SPEED (ULTIMATE), WIND SPEED (ALLOWABLE), EXPOSURE CATEGORY, BUILDING TYPE, ENCLASURE CLASSIFICATION, INTERNAL PRESSURE COEFFICIENT. Values: 140.0 MPH, 108.0 MPH, C, II, ENCLOSED +/- 0.18

NOTE: MEAN ROOF HEIGHT FOR TYPICAL SINGLE STORY BUILDING IS 15FT, AND FOR 2 STORY IS 30 FEET

ASCE 7-16 WALL DESIGN ALLOWABLE COMPONENTS AND CLADDING WIND PRESSURES AND SUCTIONS FOR MEAN ROOF HEIGHT ≤ 60 ft

Table with 3 columns: WINDSPEED, WIND PRESSURE AND SUCTION (PSF), AREA. Rows for WALLS and GARAGE DOORS*.

FLAT/HIP/GABLE ROOF 0 TO 75 DEGREE

Table with 3 columns: WINDSPEED, WIND PRESSURE AND SUCTION (PSF), AREA. Rows for 10-19.99, 20-49.99, 50-99.99, >100.

NOTE: LL REDUCTIONS ARE ALLOWED PER CODE BUT ONLY WITH WRITTEN APPROVAL FROM EOR OR INDICATED ON PLAN

GENERAL FLOOR LOADING

Table with 2 columns: TOP CHORD LL, TOP CHORD DL, BOTTOM CHORD LL, BOTTOM CHORD DL. Values in (PSF) and comments.

SPECIAL FLOOR LOADING

Table with 2 columns: GAME ROOM / READING ROOMS, BALCONIES/ DECKS, BALCONIES OVER 100 SQ.FT., GUARDRAILS AND HANDRAILS, GUARDRAIL IN-FILL COMPONENTS, STAIRS / NON SLEEPING ROOMS, SLEEPING ROOMS, LIBRARIES - STACK ROOMS. Values in (PSF) and comments.

DEFLECTION CRITERIA

Table with 3 columns: ROOF TRUSSES*, ROOF RAFTERS (W/O CLG), FLOOR TRUSSES/ BEAMS **, FLOOR JOIST***. Values in L/360, L/180, L/240, L/360, L/480, L/240 and comments.

*TL MAX 2" UP TO 40FT SPAN **TL MAX 3/4" ***TL MAX 1/4" DIFFERENTIAL BETWEEN ADJACENT TRUSSES

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Table with 2 columns: SHEET NUMBER, SHEET DESCRIPTION. Rows 1-13.

GENERAL PRESSURE NOTES

- NOTES: 1. ABOVE SHOWN PRESSURES ARE ULTIMATE WIND PRESSURES TO BE APPLIED AS REQUIRED. 2. "a" = END ZONE IS ONLY WITHIN 6'-0" OF ALL EXTERIOR BUILDING CORNERS. INDICATED PRESSURES CAN BE INTERPOLATED FOR OTHER DOOR SIZES. OTHERWISE USE LOAD ASSOCIATED WITH THE LOWER EFFECTIVE AREAS. 3. DESIGNATED AREAS WHERE THE ULTIMATE WIND SPEED IS 140 MPH OR GREATER AND IS CONSIDER TO BE IN THE WIND-BOURNE DEBRIS AREA. CONTRACTOR TO PROVIDED ADDITIONAL INFO AS REQUIRED FOR PERMITTING.

COUNTY OF ORANGE
STATE OF FLORIDA

ALL FEDERAL STATE & LOCAL CODES, ORDINANCES, AND REGULATIONS, ETC. SHALL BE CONSIDERED AS PART OF THE SPECIFICATION OF THIS BUILDING, AND ARE TO BE ACHIEVED TO EVEN IF THEY ARE IN VARIANCE WITH THE PLAN.

DESIGNER AND ENGINEER ASSUME NO RESPONSIBILITY OVER ANY PHASE OF CONSTRUCTION OR COMPLETED BUILDING.

ASCE 7-16 WIND PRESSURE AND SUCTION DIAGRAMMS

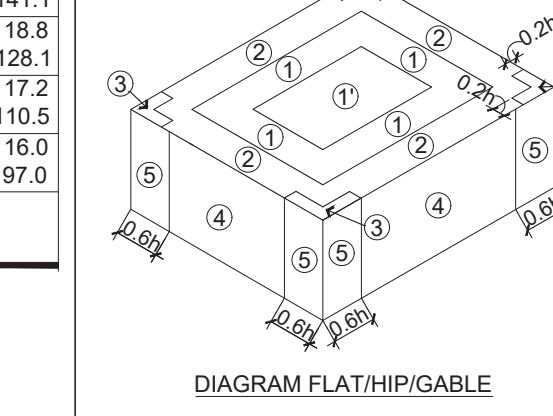
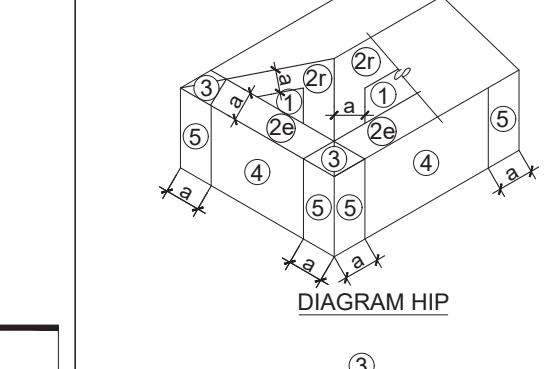
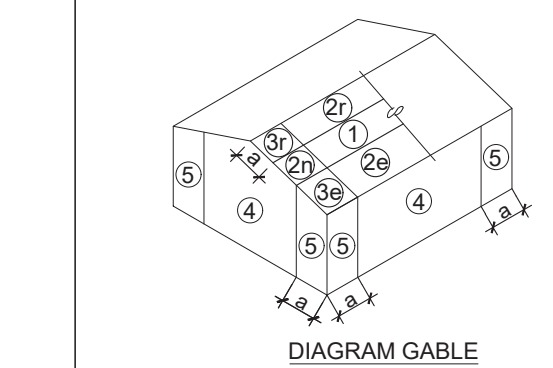


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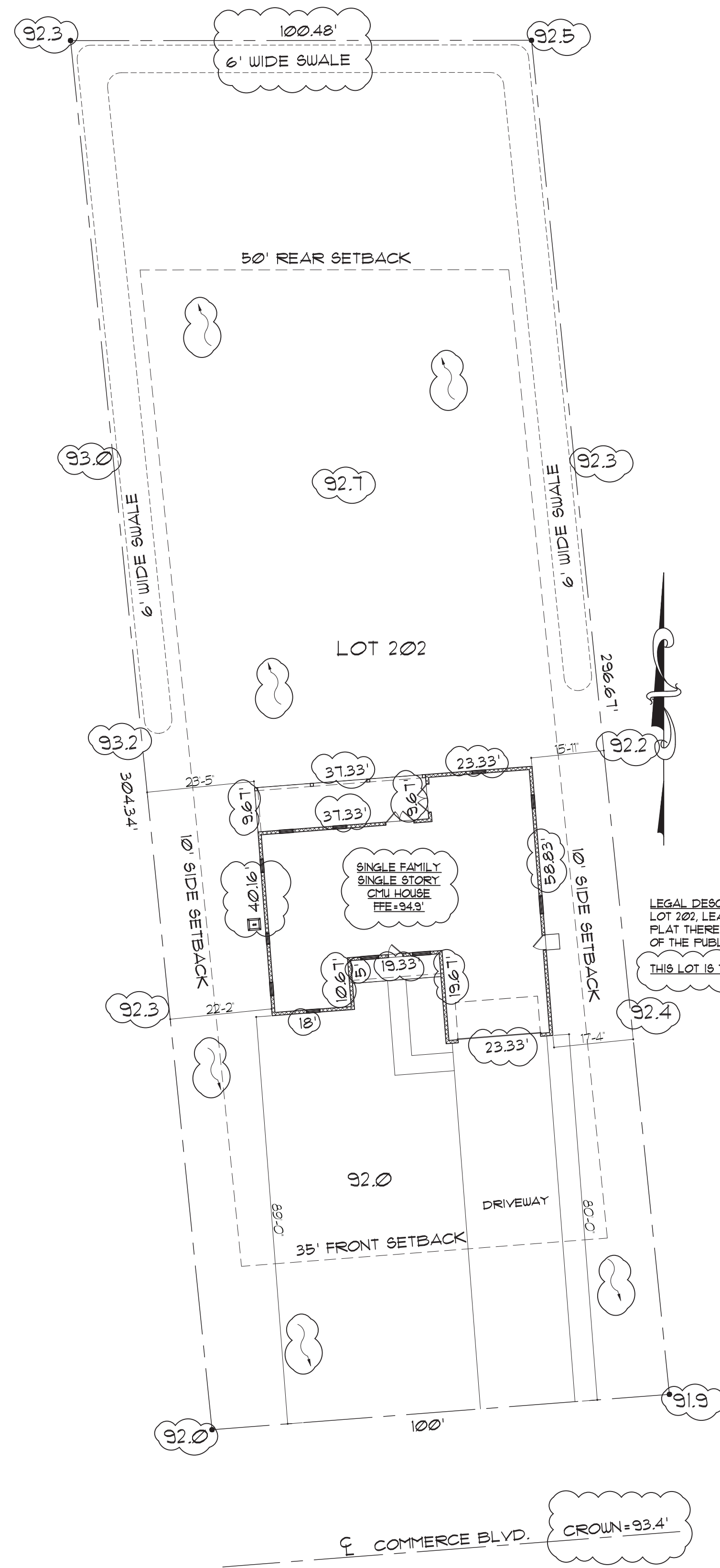
RESIDENTIAL DESIGN
TEL: 407-402-3487
e-mail: ericmclucic@gmail.com

Lucia
DESIGNS

LP STRUCTURAL DESIGN, LLC
223 MAGNOLIA CIRCLE CIRCLE
EUSTIS, FLORIDA 32726
352-989-1936
PER: 47617

NEW HOME DESIGN
RAMOS
LOT 202 COMMERCE BLVD.
ORANGE COUNTY, FLORIDA

DATE:
SCALE: NOTED
DRAWN: EML
JOB:
SHEET
OF 13 SHEETS



= WATER DRAINAGE DIRECTION

SITE PLAN

SCALE: 1" = 20'

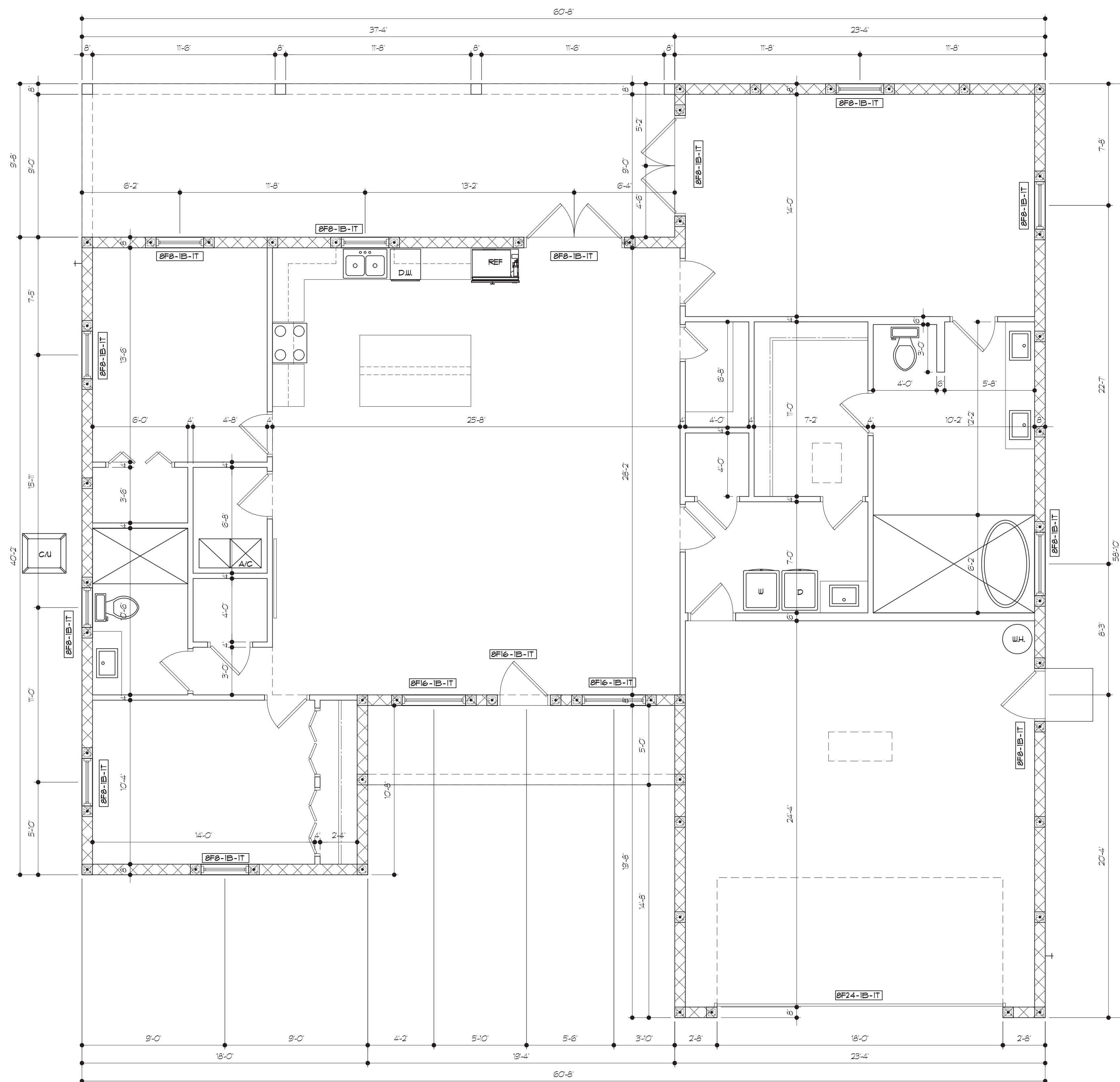
REVISIONS	BY

RESIDENTIAL DESIGN
 TEL: 407-402-3487
 e-mail: ericmlucia@gmail.com
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NEW HOME DESIGN
RAMOS
 LOT 202 COMMERCE BLVD.
 ORANGE COUNTY, FLORIDA

DATE: _____
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 JOB: _____
 SHEET **2**
 OF 13 SHEETS



NOTE:
CONTRACTOR SHALL VERIFY ALL
DIMENSIONS PRIOR TO ANY
CONSTRUCTION

UNLESS OTHERWISE NOTED
HEADERS SHALL BE DESIGNED
PER ATTACHED HEADER
SCHEDULE ON SHEET 13

FRAMING LEGEND

- ◻ CONNECTOR SCHEDULE TAG - SEE
DETAILS ON SHEET 12
- TYPICAL CONNECTION TAG - SEE
DETAILS ON SHEET 12

UNLESS OTHERWISE NOTED,
DIMENSIONS ARE TO OUTSIDE OF
SLAB
FOR ADDITIONAL DIMENSIONING
REFER TO ARCHITECTURAL SET OF
PLANS

ALL LINTEL SPANS SHALL BE VERIFIED
BY BUILDER PRIOR TO WALL
CONSTRUCTION

ALL LINTEL DEPTH SHOWN ON THIS PLAN IS THE MINIMUM
REQUIRED FOR ALL APPLICABLE LOADS. ALLOWING BUILDER
TO INCREASE DEPTH OF LINTEL TO FIT ANY APPLICATION
FOR ALL THOSE CASES AND UNLESS OTHERWISE NOTED,
LITELS SHALL BE 8" OR 12" WIDE BY APPLICABLE DEPTH.
UNLESS OTHERWISE SPECIFIED, FILL ALL COURSES WITH SOLID
3000 PSI CONCRETE AND 1# ROD TOP AND BOTTOM.

PRECAST CONCRETE LINTEL PER
ATTACHED SCHEDULE ON SHEET 11

V.I.F. = VERIFY IN FIELD BY BUILDER
AND INFORM ENGINEER

FLOOR PLAN - DIMENSIONED

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

REVISIONS	BY

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Jucia
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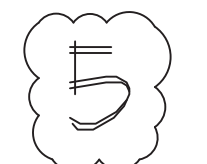
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SCALE: NOTED
DRAWN: EML
JOB:
SHEET
4
OF 13 SHEETS

REVISIONS	BY

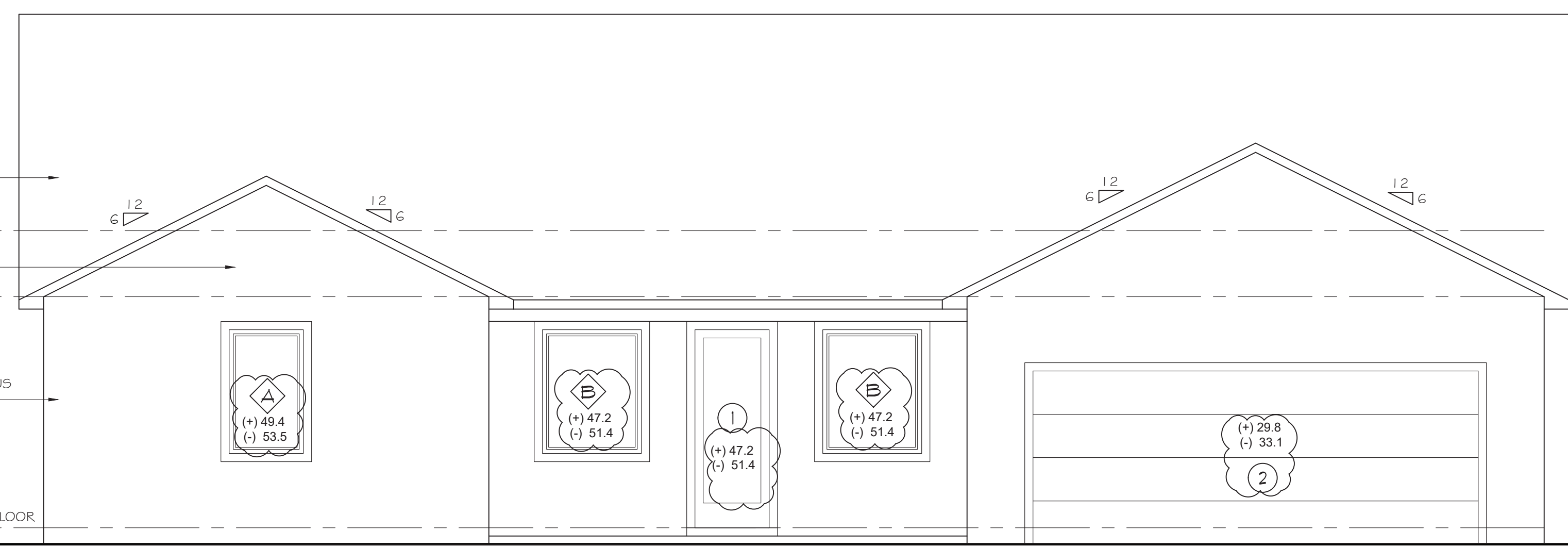
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NEW HOME DESIGN
RAMOS
 LOT 202 COMMERCE BLVD.
 ORANGE COUNTY, FLORIDA

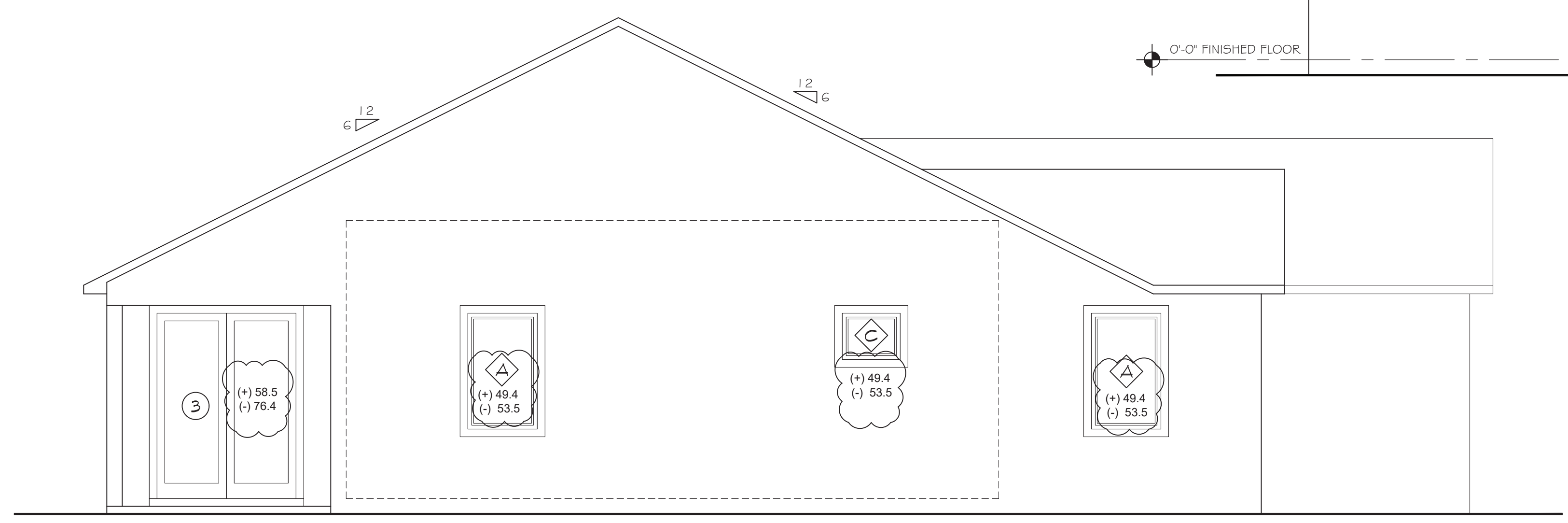
DATE: _____
 SCALE: NOTED
 DRAWN: EML
 JOB: _____
 SHEET  OF 13 SHEETS

- SHINGLE FINISH
- 12'-0" CLG. HT.
- 2" THICK STUCCO FINISH OVER FRAME
- 9'-4" CLG. HT.
- 3/8" THICK CEMENTITIOUS FINISH OVER CMU
- 0'-0" FINISHED FLOOR



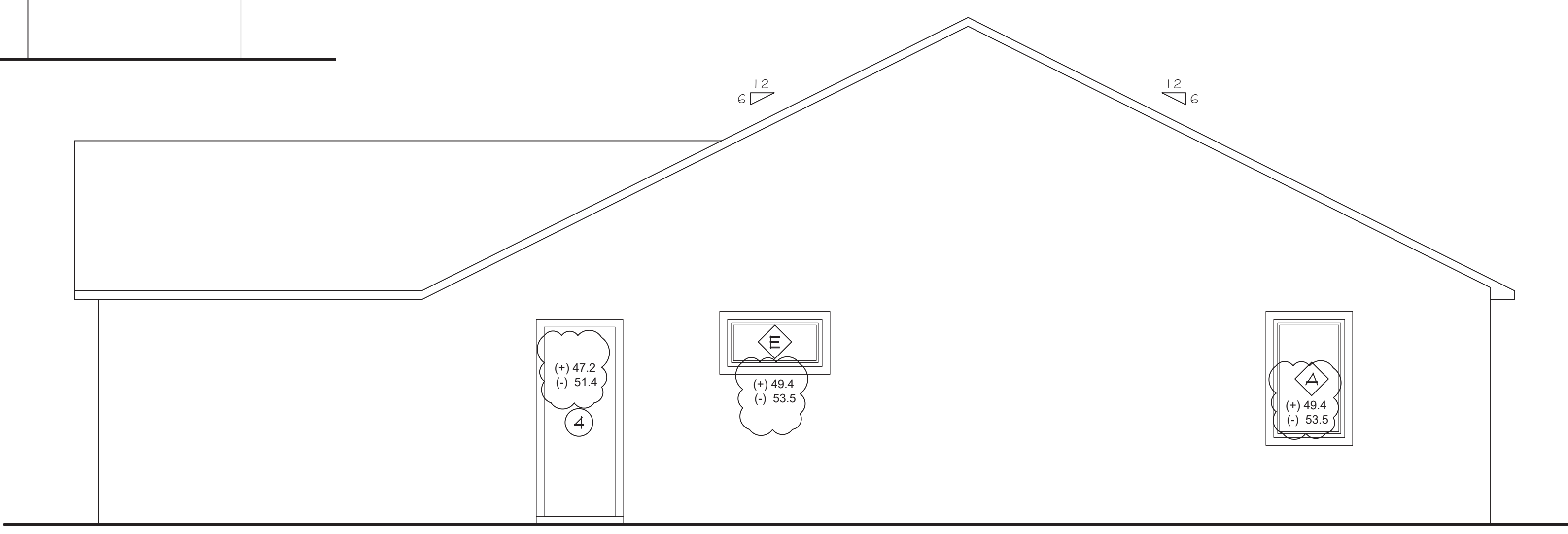
FRONT ELEVATION

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



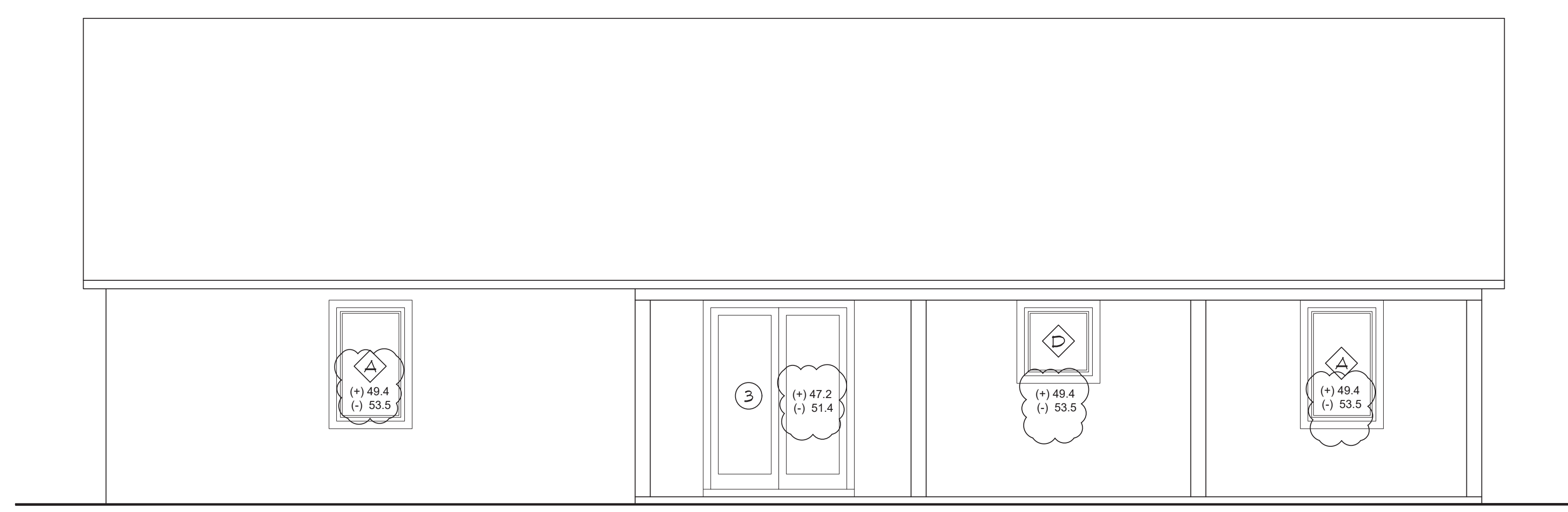
LEFT ELEVATION

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



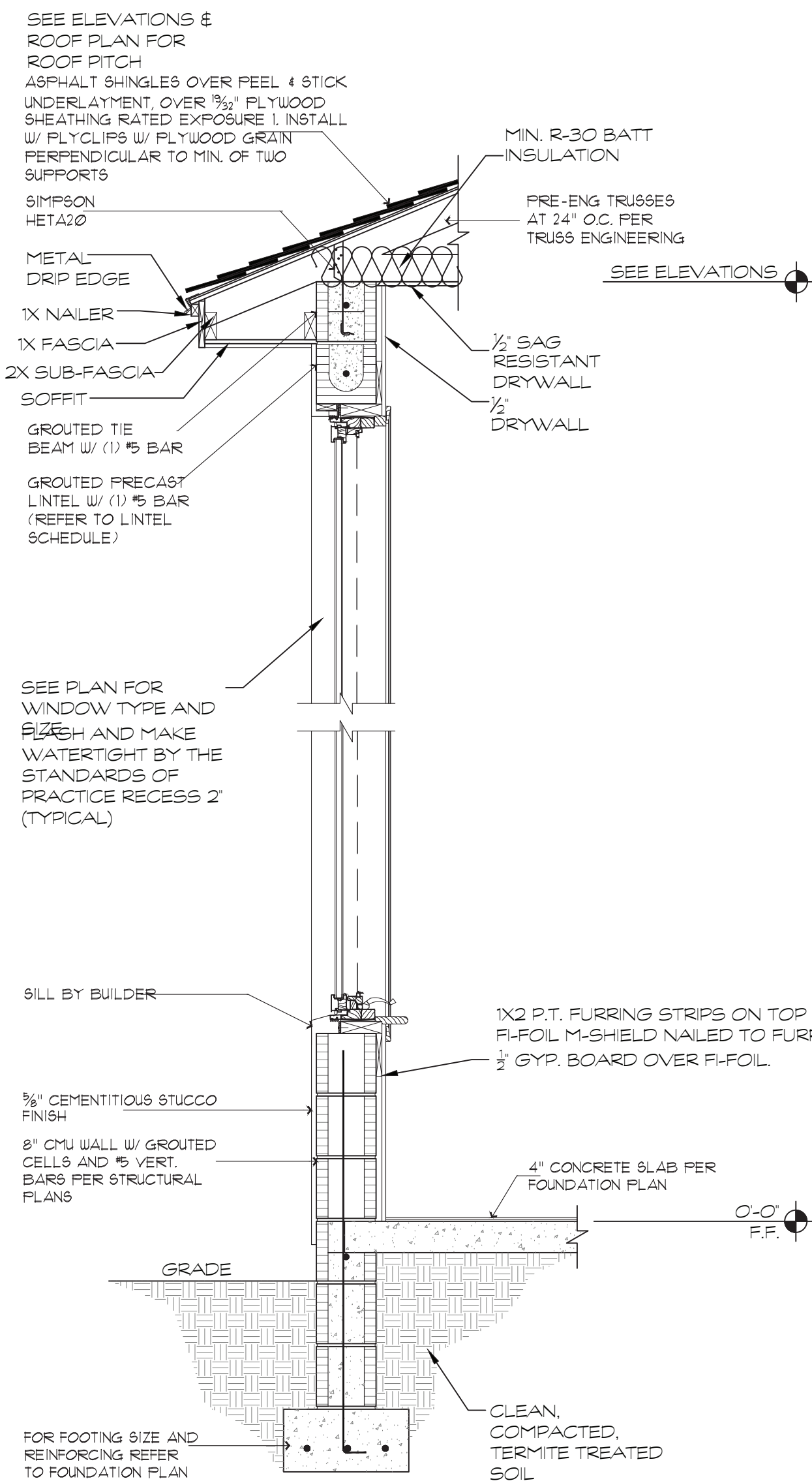
RIGHT ELEVATION

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



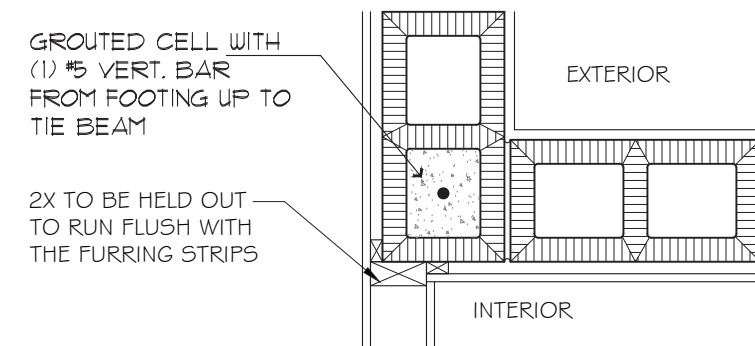
REAR ELEVATION

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



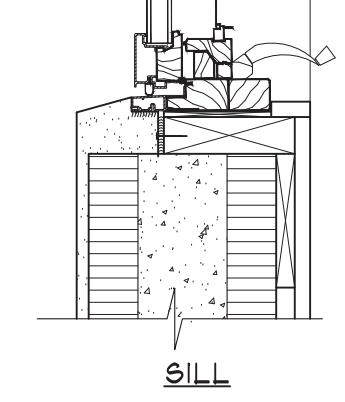
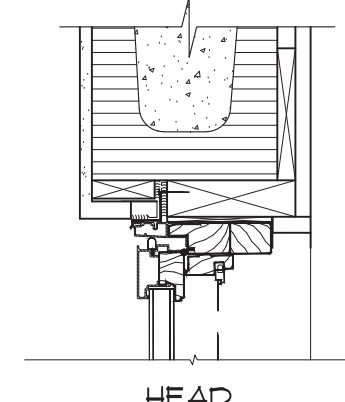
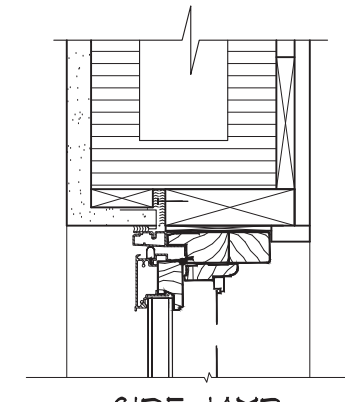
TYPICAL SINGLE STORY WALL SECTION

SCALE: 3/4" = 1'-0"



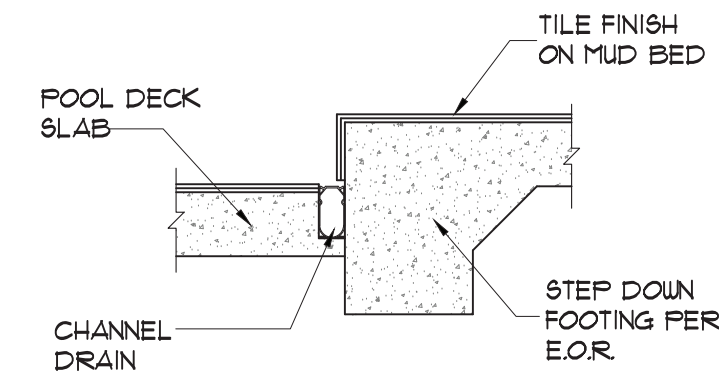
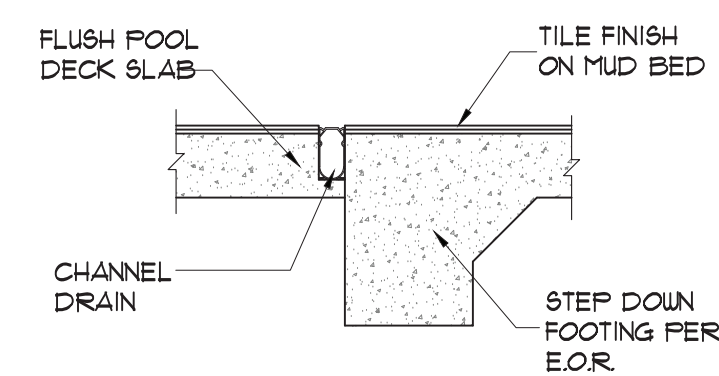
INTERIOR CORNER DETAIL

N.T.S.



- PREPARATION OF WINDOW OPENING:**
- INSTALL PRESSURE TREATED WOOD BUCK TO PERIMETER OF OPENING USING TARGON 3/16" X 3 1/2" OR EQUAL PROVIDING 9000 LBS. SHEAR STRENGTH WITHIN 6" FROM CORNERS & 16" ON CENTER
 - APPLY A CONTINUOUS BEAD OF CAULKING TO SEAL WOOD BUCK TO MASONRY OPENING
 - ENSURE THAT A CLEARANCE OF 1/4" PER SIDE IS LEFT FOR SHIMMING
 - FILL CELLS WITH CONCRETE AND REBAR AS REQUIRED BY LOCAL CODE AND FOUR SILL BLOCK SMOOTHLY FOR ATTACHMENT OF SILL BUCK (BY OTHERS).
- INSTALLATION OF WINDOW:**
- REFER TO INSTALLATION INSTRUCTIONS FOR THE SPECIFIC PRODUCT BEING INSTALLED
 - SET WINDOW IN OPENING, SHIMMING, LEVELING AND SQUARING TO ENSURE PROPER OPERATION
 - INSTALL #8 W/ASER HEAD OR #10 S. 1 1/4" OR WOOD SCREW THROUGH ALL PREDRILLED HOLES IN THE INSTALLATION FIN TO SECURE UNIT
 - ENSURE THAT THE INSTALLATION FIN IS SEALED TO THE WOOD 2 X BUCK WITH A CONTINUOUS BEAD OF CAULKING
 - FILL VOID BETWEEN WINDOW AND BUCK WITH INSULATION BEING CAREFUL NOT TO BOU THE FRAME (BY OTHERS)
 - WATER PROTECT FIN AND MASONRY WITH NFI OR EQUAL, COVERING FROM ALUMINUM CLAD TO MASONRY
 - WATERPROTECT MASONRY SILL AND UP SIDES 6" WITH SELF LEVELING URETHANE
 - LEAVE 1/4" GAP BETWEEN EXTERIOR OF WINDOW AND FINISH MATERIALS FOR CAULK JOINT TO ALLOW FOR MATERIALS EXPANSION

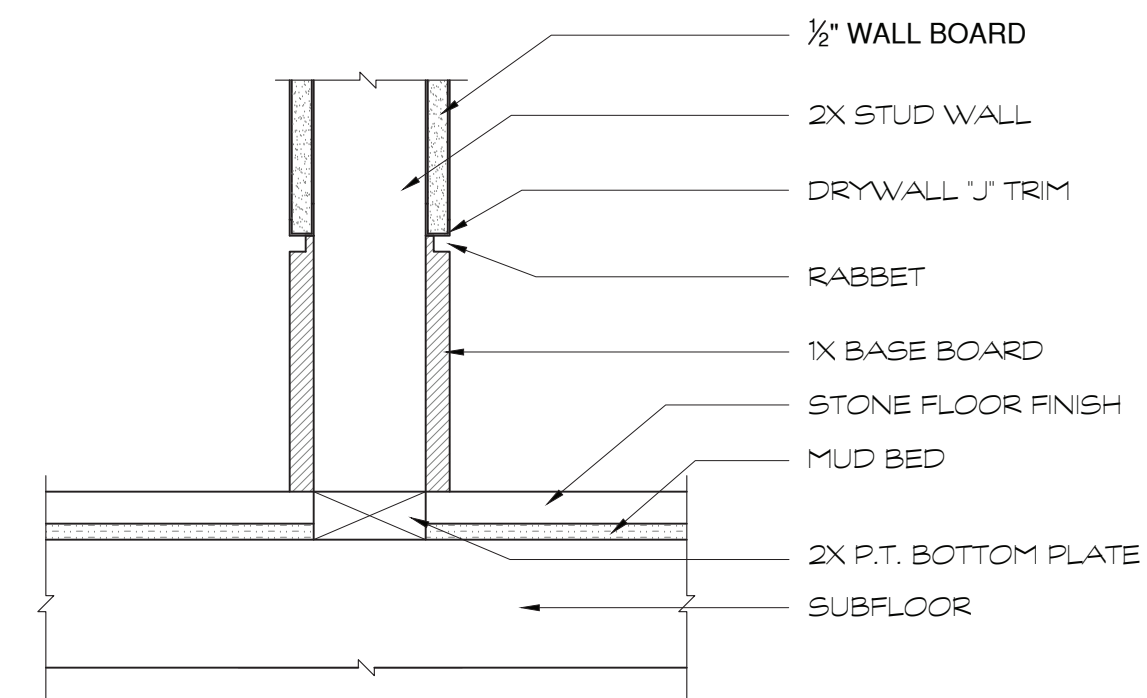
**WINDOW DETAIL
COMPOSITE FRAME WINDOW
N.T.S. - DRYWALL RETURNS**



1. ALL DIMENSIONS ARE TO BE FIELD VERIFIED. 2. SEE DRAIN MANUFACTURE FOR INSTALLATION DETAILS AND DIMENSIONS.

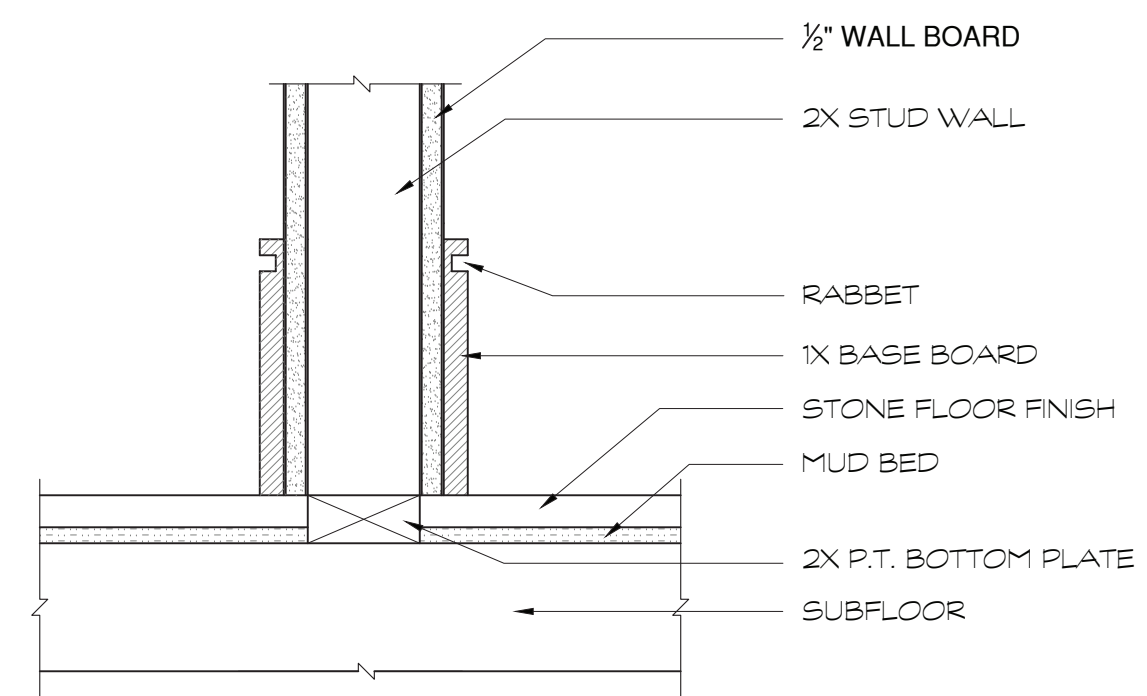
CHANNEL DRAIN DETAILS

SCALE: 1" = 1'-0"



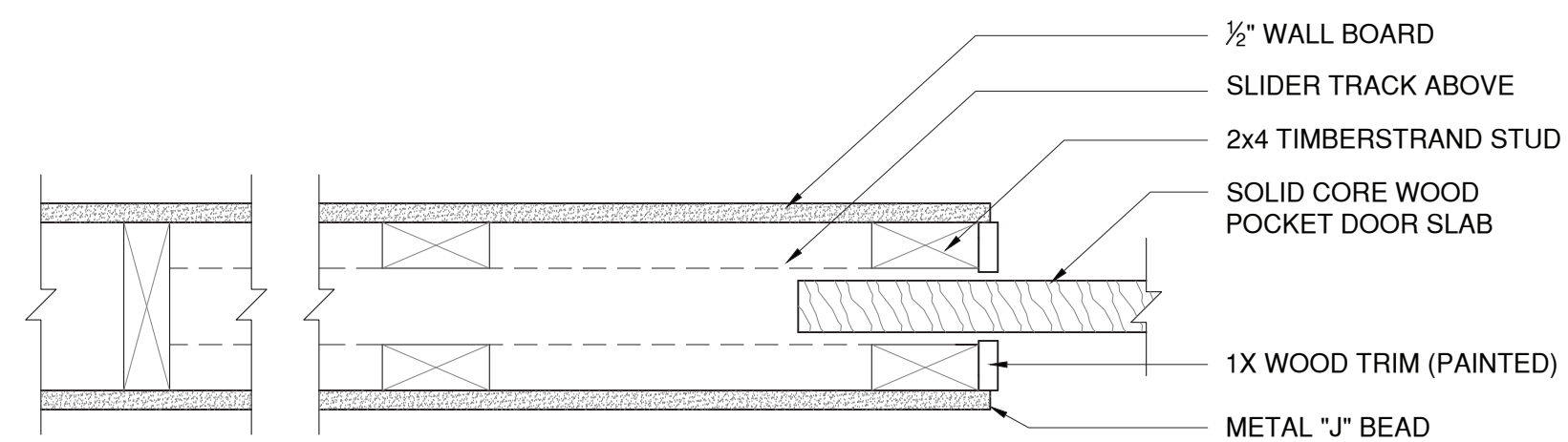
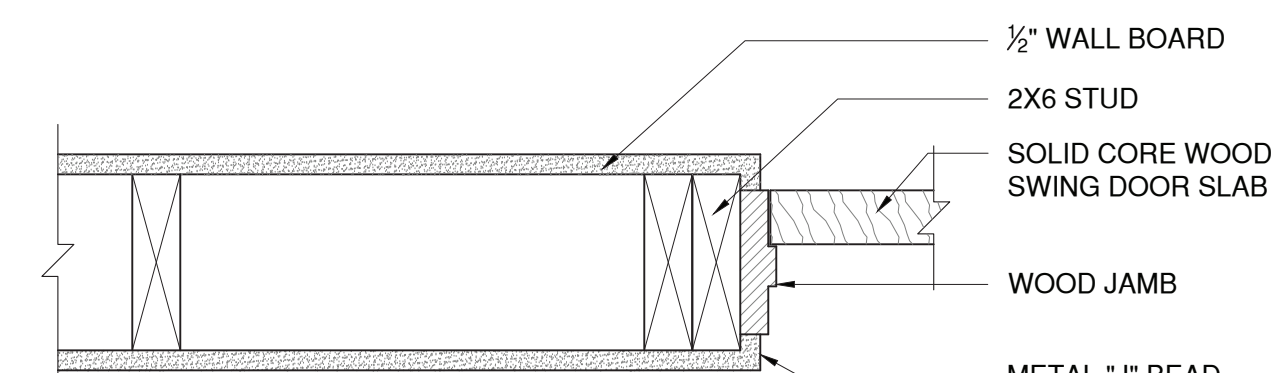
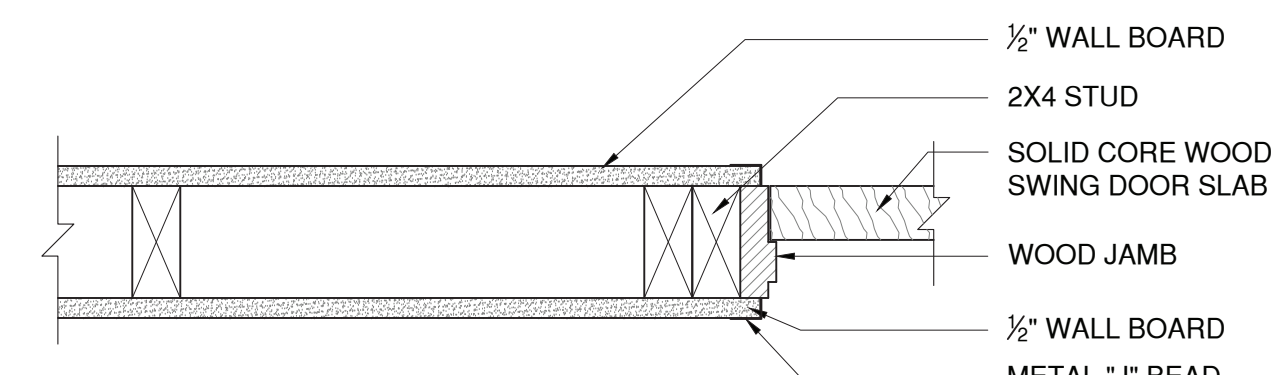
BASE BOARD DETAIL "A"

NOT TO SCALE



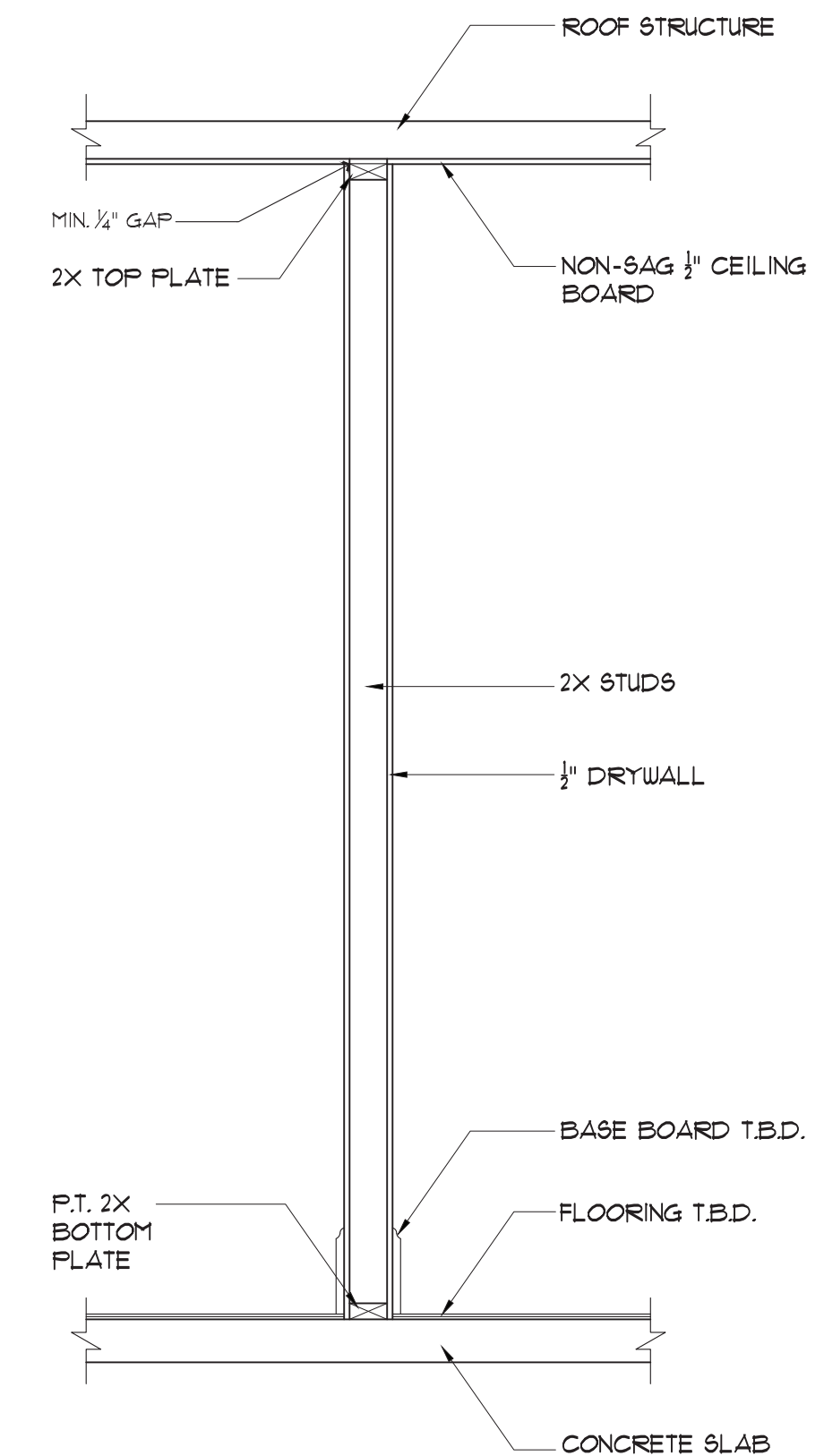
BASE BOARD DETAIL "B"

NOT TO SCALE



INTERIOR DOOR JAMB FINISH DETAIL

NOT TO SCALE



INTERIOR NON-BEARING WALL

SCALE: 3/4" = 1'-0"

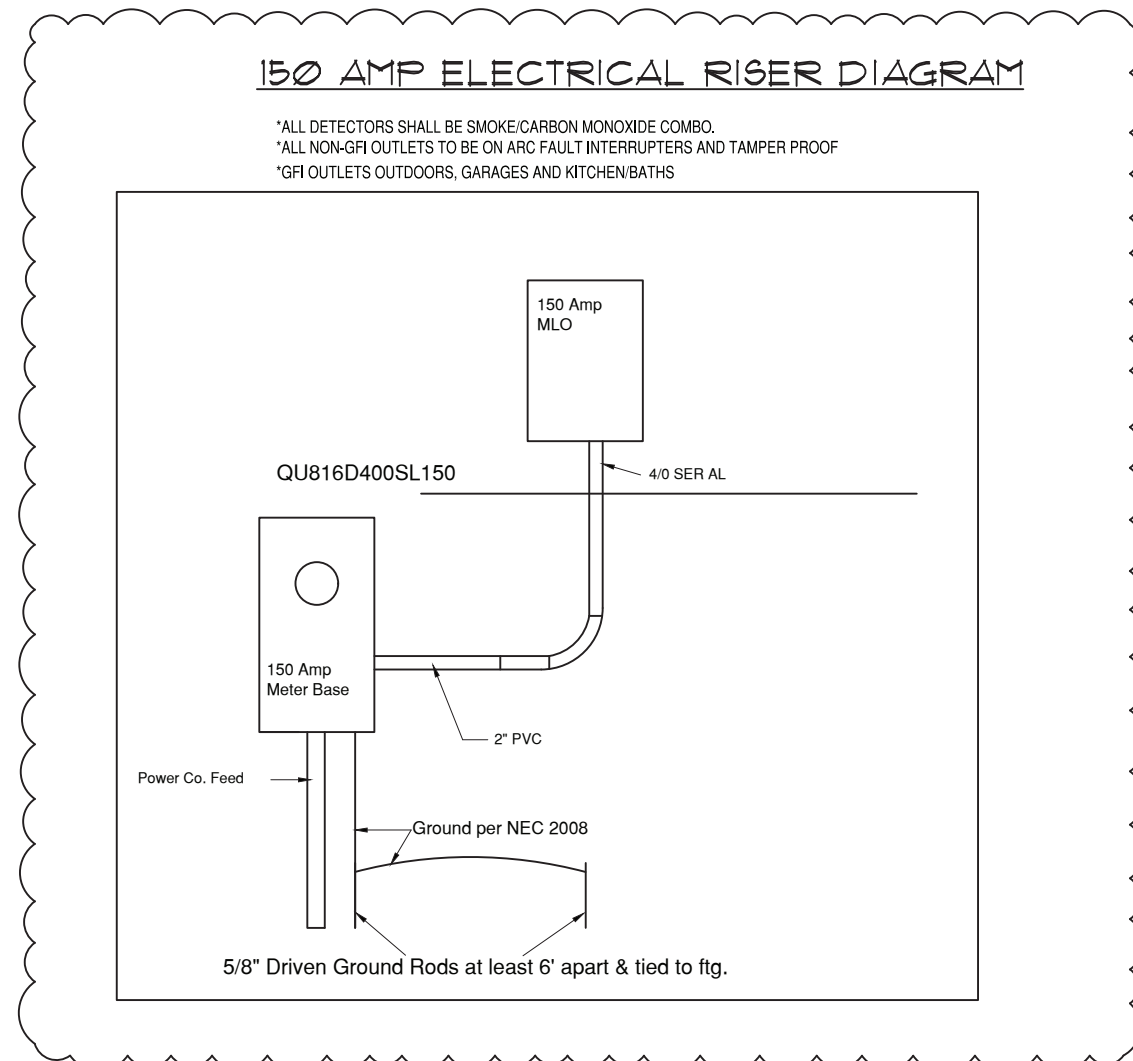
REVISIONS	BY

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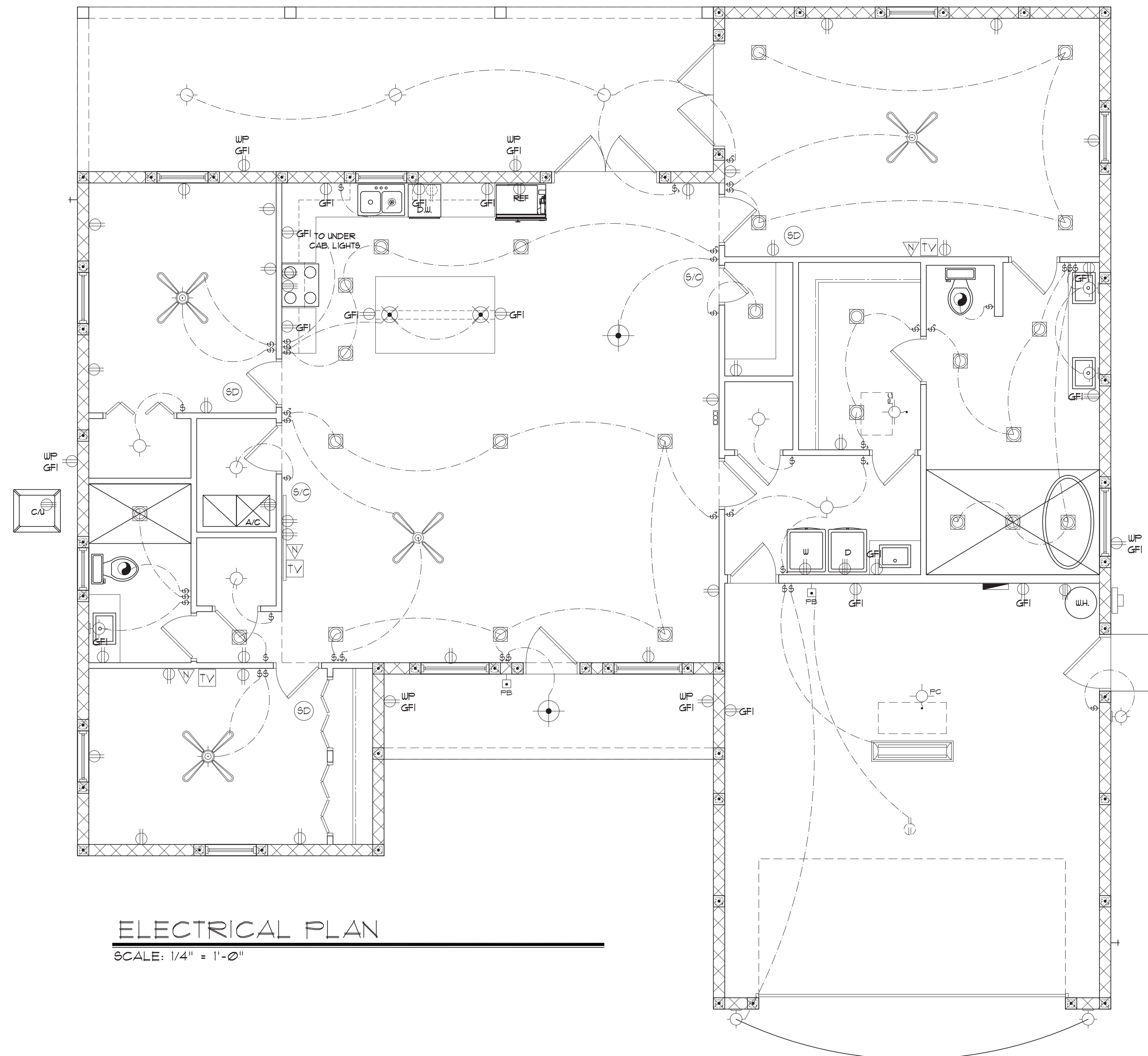
NEW HOME DESIGN
RAMOS
LOT 202 COMMERCE BLVD.
ORANGE COUNTY, FLORIDA

DATE: _____
SCALE: NOTED
DRAWN: EML
JOB: _____
SHEET _____
OF 13 SHEETS



ELECTRICAL NOTES

- UNLESS OTHERWISE SPECIFICALLY STATED HEREIN, THE ELECTRICAL PLAN(S) ARE ONLY FOR GENERAL DESIGN INTENT AND HAVE BEEN COMPILED TO MEET PERMIT REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION. ACTUAL QUANTITY, TYPE, AND PLACEMENT OF OUTLETS, SWITCHES, FIXTURES, AND ALL OTHER RELATED ELECTRICAL EQUIPMENT SHALL BE DETERMINED BY THE CONTRACTOR AND OWNER. INSTALLATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES.
- CONTRACTOR SHALL VERIFY WITH POWER COMPANY THE LOCATION OF SERVICE AND SHALL LOCATE METER AND PANEL AS REQUIRED.
- ALL WIRES SHALL BE THW COPPER, UNLESS NOTED OTHERWISE.
- WHERE REQUIRED BY OTHER CODES, SERVICE AND FEEDER CONDUCTORS SHALL BE COPPER OF EQUAL AMPACITY.
- ALL BRANCH CIRCUITS IN RACEWAY OR NON-METALLIC SHEATHED CABLE.
- COORDINATE RACEWAY INSTALLATIONS WITH OTHER TRADES PRIOR TO CONSTRUCTION.
- VERIFY ALL CONDUCTORS AND BREAKERS WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS.
- PROVIDE DISCONNECT SWITCH SIZE AS REQUIRED BY LOAD AND UNITS.
- PROVIDE NON-FUSIBLE GENERAL DUTY SAFETY SWITCHES AT A/C EQUIPMENT, AND AT PUMPS NOT VISIBLE FROM CIRCUIT BREAKER PANEL AND AS PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE GROUND FAULT INTERRUPT (GFI) BREAKERS FOR ALL BATHROOM, GARAGE AND EXTERIOR OUTLETS AS SHOWN.
- ELECTRICAL FIXTURES, TRIM AND APPLIANCES SHALL BE 'UL' APPROVED AND SELECTED BY OWNER.
- PROVIDE PRE-WIRED TELEPHONE AND TELEVISION (CABLE TV) OUTLETS.
- WIRE KITCHEN AND FAMILY ROOM SEPARATELY.
- ELECTRICAL SERVICE SIZE SHALL BE DESIGNED BY THE ELECTRICAL CONTRACTOR. THIS PLAN SHALL BE USED AS A GUIDE, POWER REQUIREMENTS SHALL BE DETERMINED BY TOTAL LOAD OF THE HOUSE.
- PROVIDE AFCIs (ARC FAULT INTERRUPTERS) IN ALL DWELLING UNIT BEDROOMS PER NEC.
- INSTALL SMOKE DETECTORS IN EACH SLEEPING ROOM, INSTALL COMBO SMOKE & CO2 DETECTORS AT TOP AND BOTTOM OF STAIRS AND WITHIN 10'-0" OF SLEEPING ROOMS. ALL DETECTORS ARE TO BE INTERCONNECTED AND HAVE BATTERY BACKUPS.

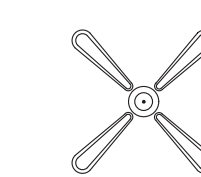


ELECTRICAL PLAN

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

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
⊞	SWITCH
⊞	THREE WAY SWITCH
⊞	FOUR WAY SWITCH
⊞	DIMMER SWITCH
⊞	110V OUTLET
⊞ GFI	110V OUTLET, GFCI
⊞ WP GFI	110V OUTLET, WEATHER PROOF GFCI
⊞	110V OUTLET, CEILING
⊞	110V OUTLET, BELOW
⊞	110V OUTLET, SWITCHED
⊞	220V OUTLET
⊞	FLOOR OUTLET
⊞	SURFACE MOUNTED INCANDESCENT LIGHT
⊞	WALL SCONCE
⊞	LARGE PENDANT FIXTURE
⊞	PENDANT FIXTURE
⊞	INGROUND UPLIGHT
⊞	LIGHT/FAN COMBO UNIT
⊞	BATH FAN
⊞	RECESSED LED LIGHT
⊞	DIRECTIONAL RECESSED LED LIGHT
⊞	RECESSED LED LIGHT - VAPOR PROOF
⊞	LED BACKLIGHTING
⊞	HEADER LIGHT FIXTURE
⊞	SQUARE PENDANT LIGHT FIXTURE
⊞	RECESSED RISER LIGHT
⊞	RECESSED WALL MOUNTED OUTDOOR LIGHT
⊞	2' X 4' LED LIGHT
⊞ SD	SMOKE DETECTOR
⊞ SC	COMBO SMOKE/CARBON MONOXIDE DETECTOR
⊞ TV	TV OUTLET
⊞	NETWORK JACK
⊞	ELECTRICAL PANEL
⊞	ELECTRICAL METER
⊞ PB	PUSH BUTTON
⊞	INTERCOM
⊞	GARBAGE DISPOSAL
⊞	CHIMES
⊞	ELEVATOR CALL BUTTON
⊞	ALARM KEY PAD
⊞	JUNCTION BOX
⊞ EC	LAMP HOLDER - FULL CHAIN
⊞	FLOOD LIGHTS



CEILING FAN

ELECTRICAL PLAN IS INTENDED FOR BID PURPOSES ONLY. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRIC CODE, LATEST EDITION, BY A LICENSED ELECTRICAL CONTRACTOR WHO SHALL BE RESPONSIBLE FOR THE INSTALLATION & SIZING OF ALL ELECTRICAL, WIRING & ACCESSORIES.

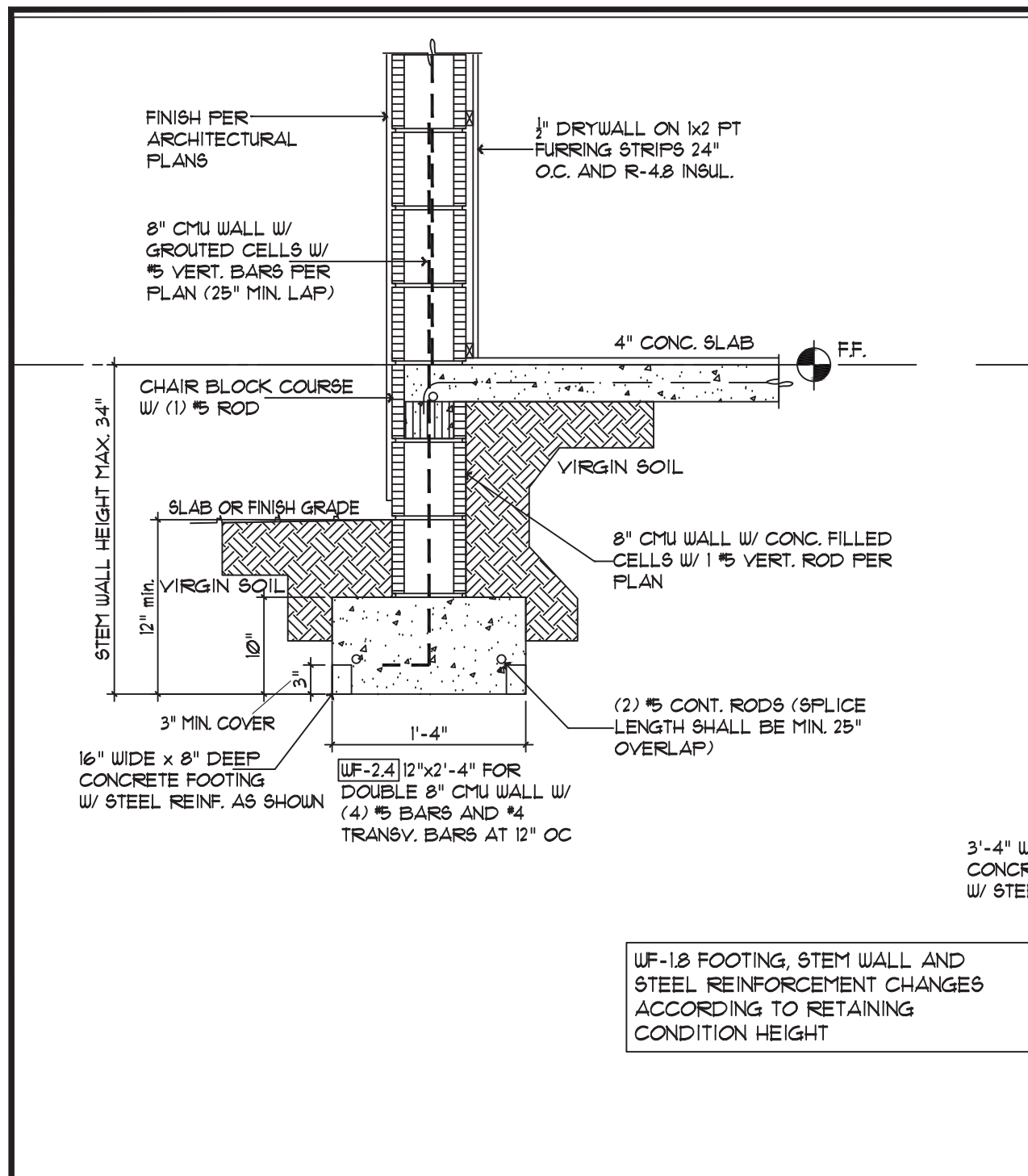
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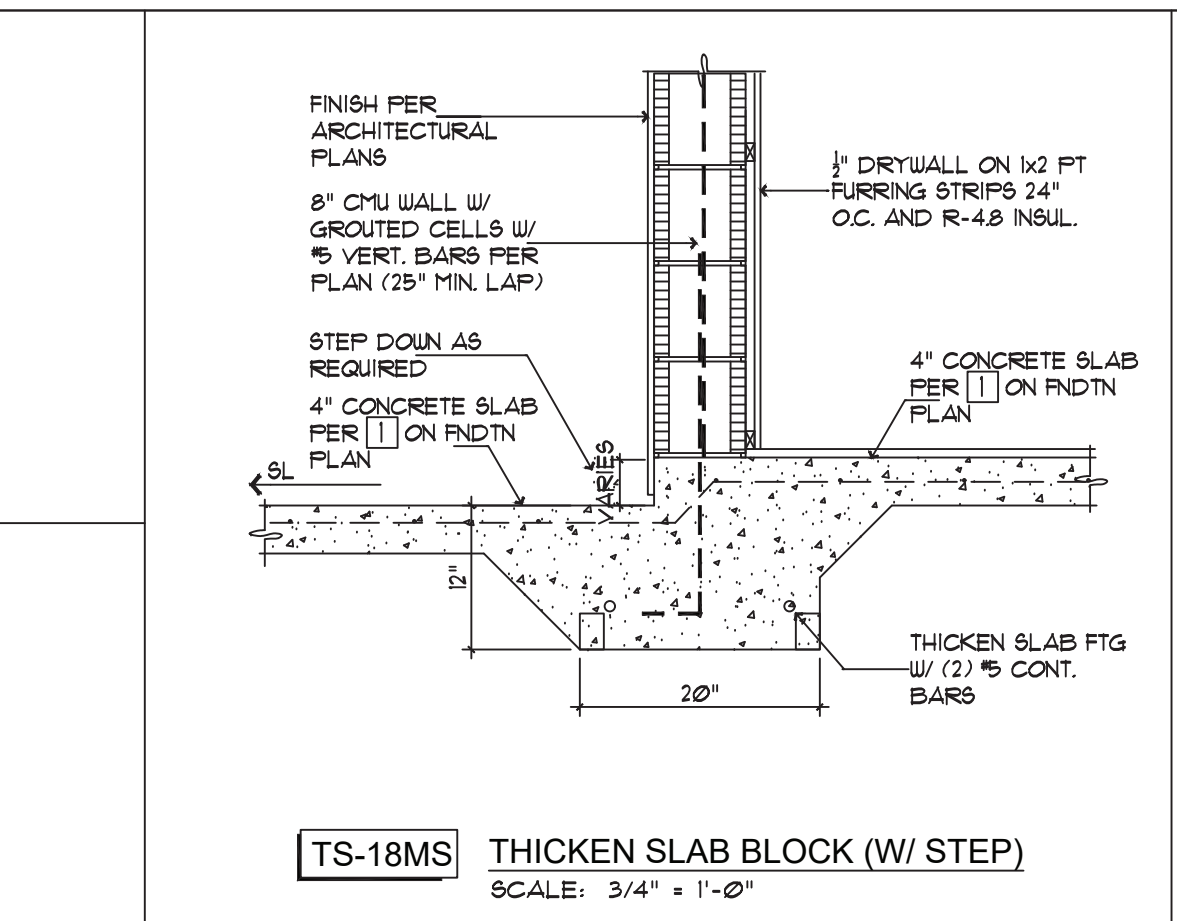
LP STRUCTURAL DESIGN, LLC
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RAMOS
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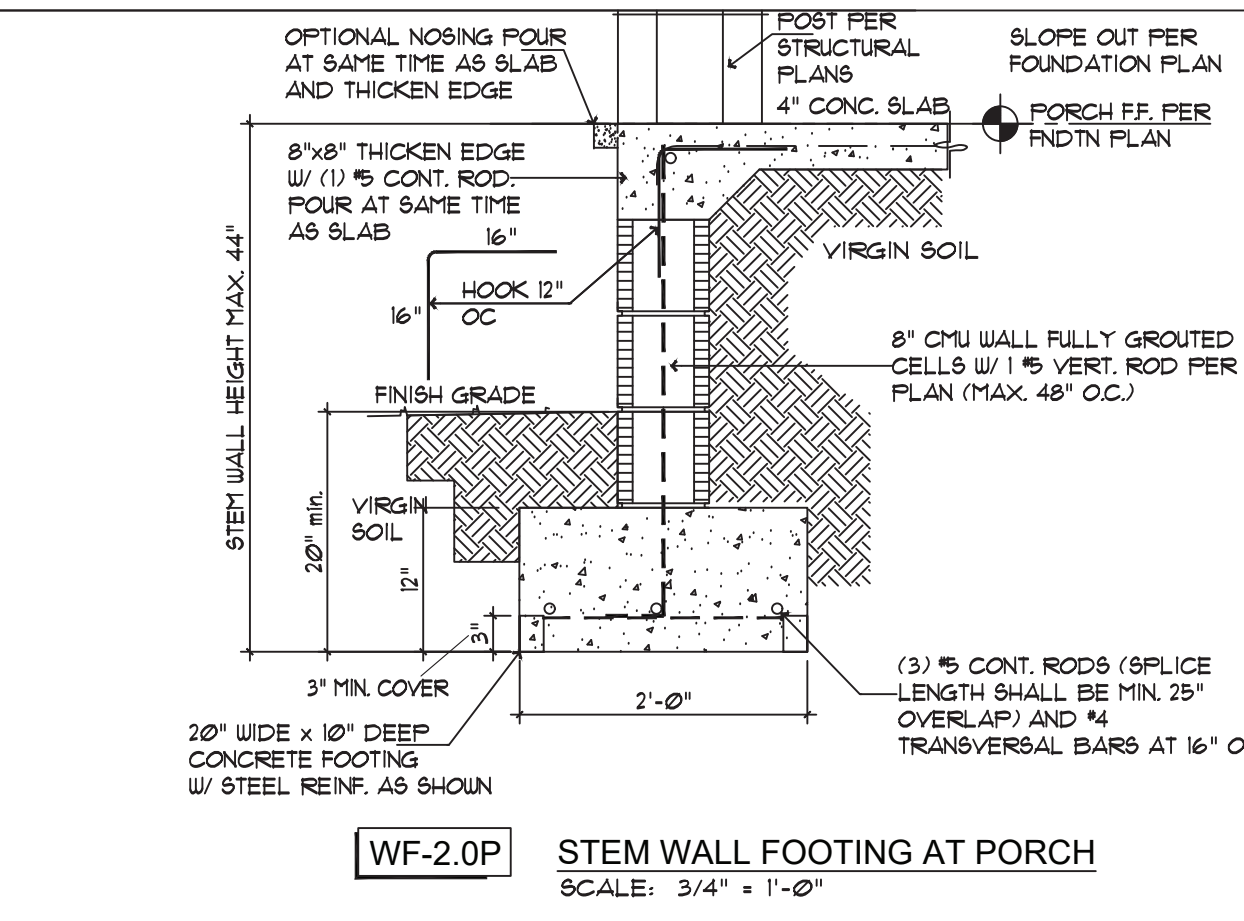
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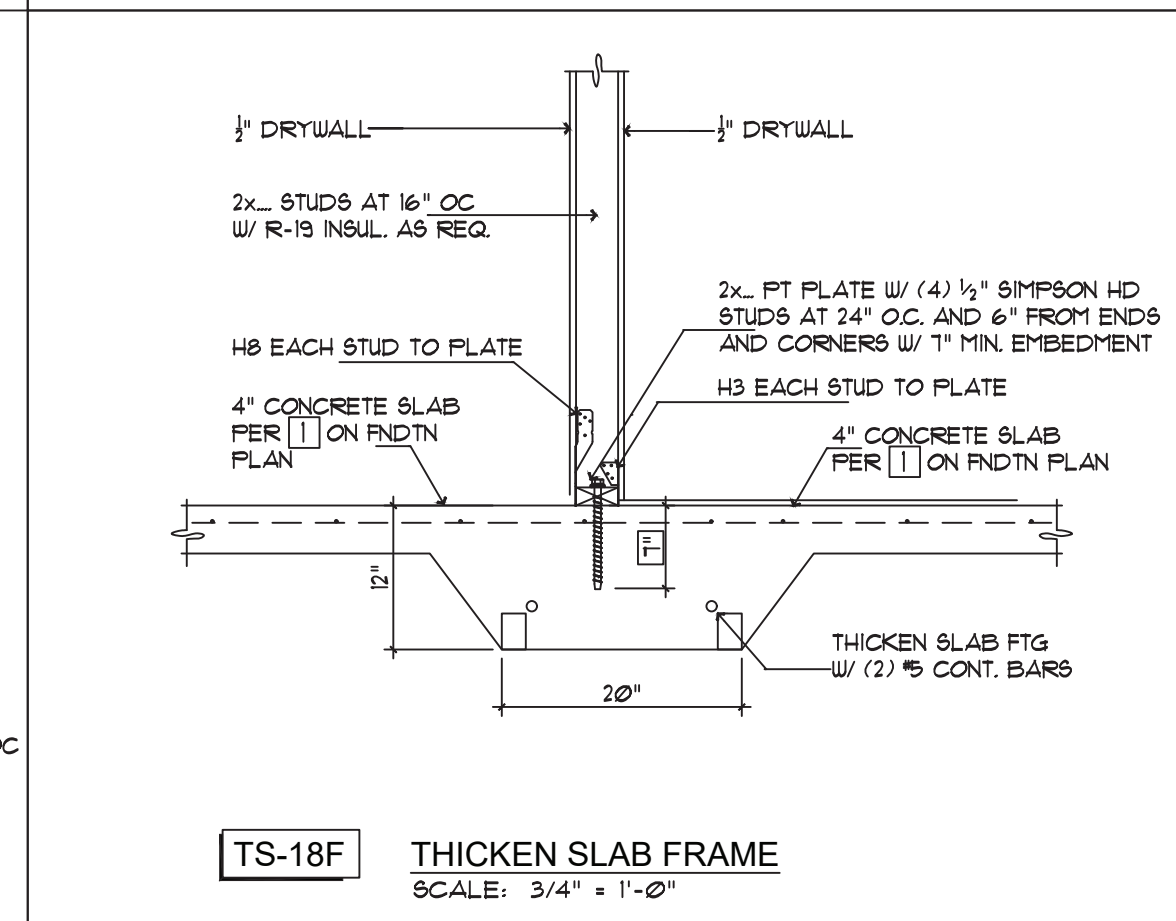
WF-1.8 STEM WALL FOOTING
SCALE: 3/4" = 1'-0"



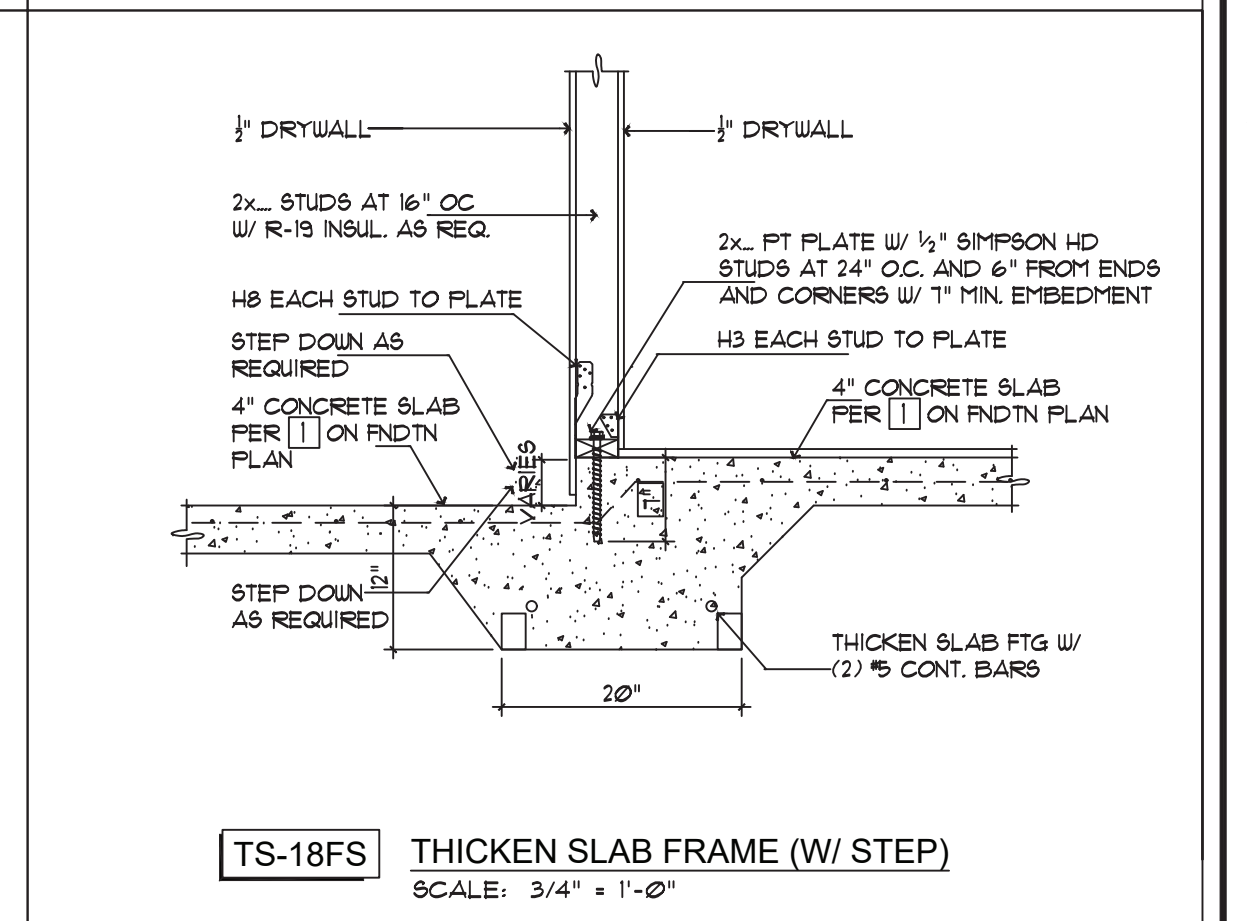
WF-1.8MS THICKEN SLAB BLOCK (W/ STEP)
SCALE: 3/4" = 1'-0"



WF-2.0P STEM WALL FOOTING AT PORCH
SCALE: 3/4" = 1'-0"

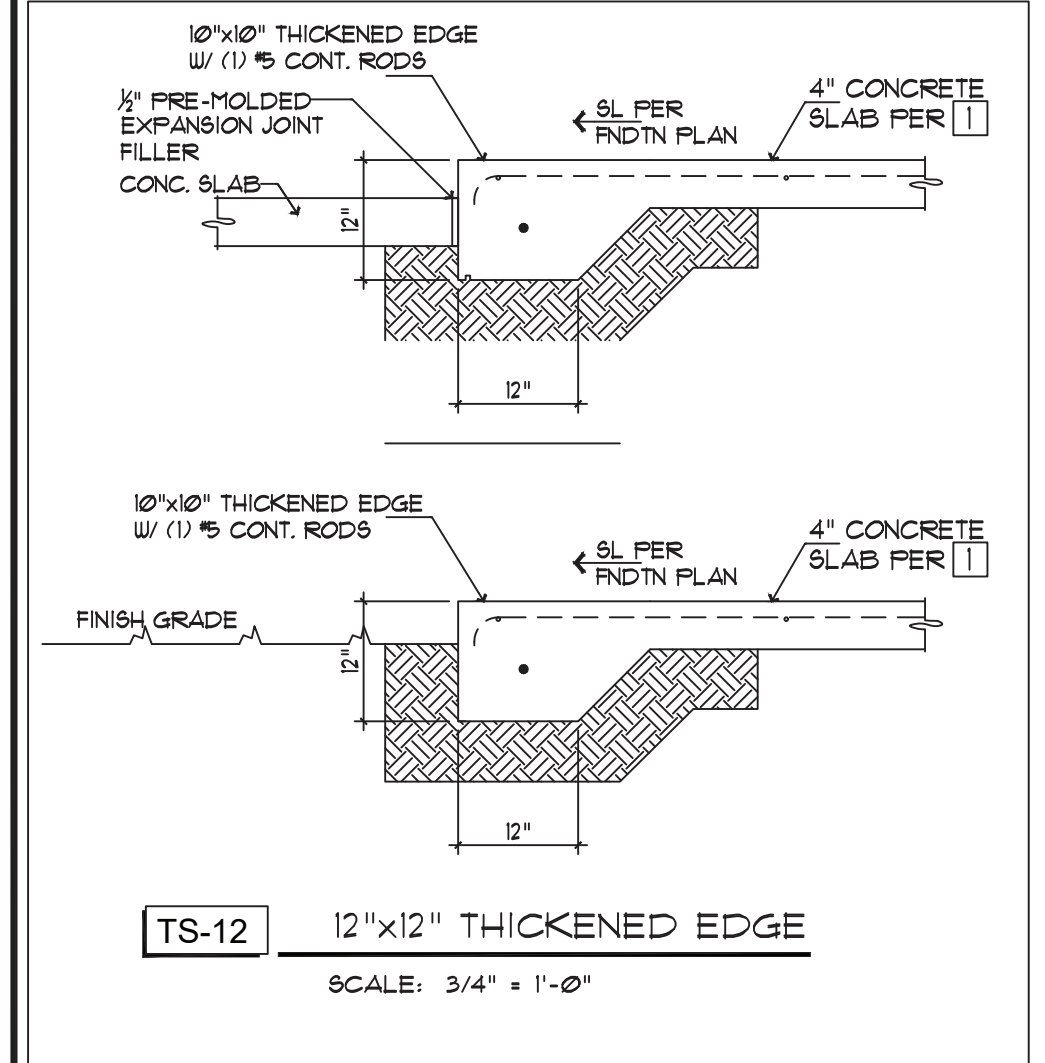


WF-2.0HG STEM WALL FOOTING AT HOUSE / GARAGE
SCALE: 3/4" = 1'-0"

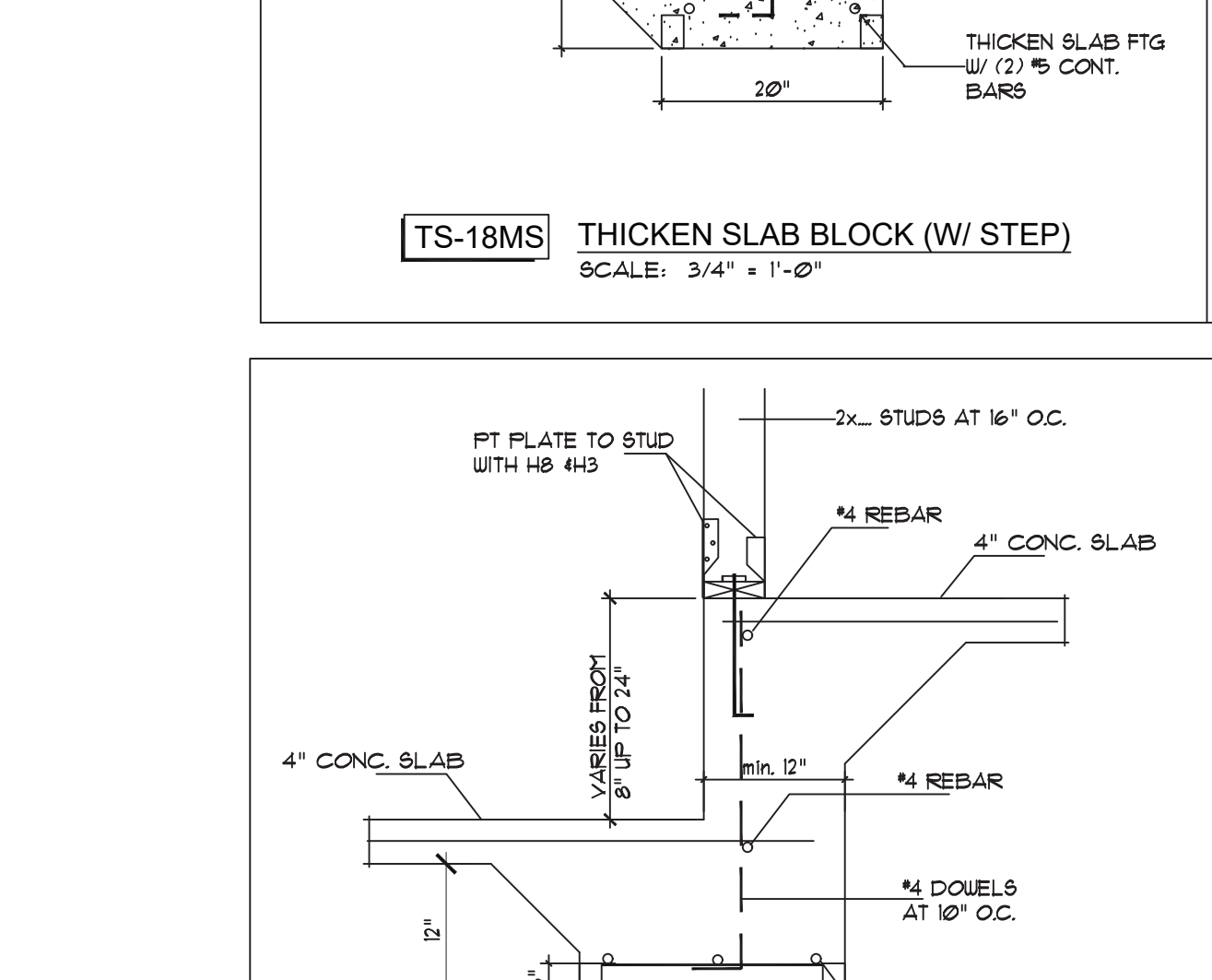


WF-GAR GARAGE STEM WALL FOOTING (FLOATING SLAB)
SCALE: 3/4" = 1'-0"

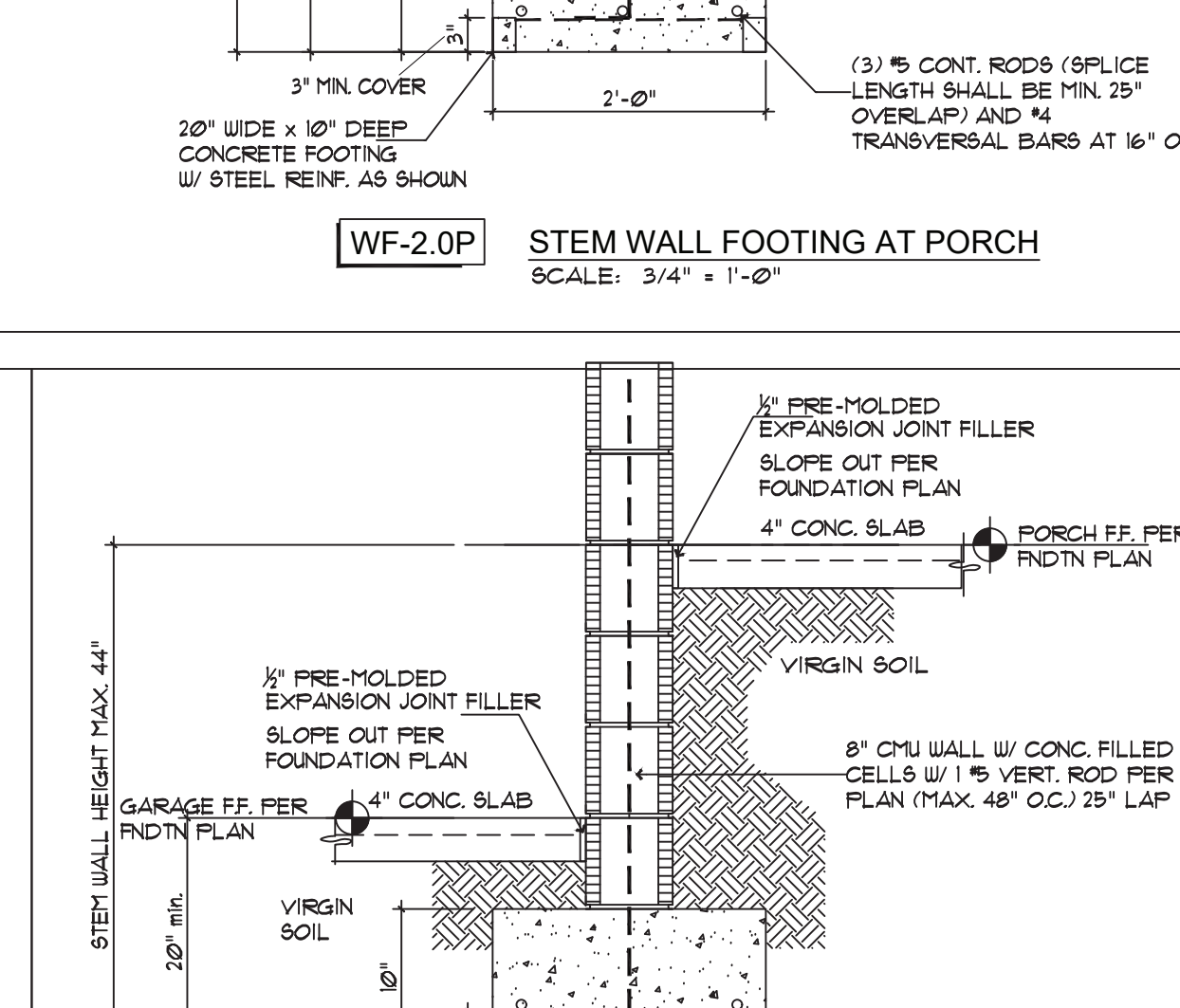
WF-GDR GARAGE STEM WALL FOOTING AT DOOR LOCATION
SCALE: 3/4" = 1'-0"



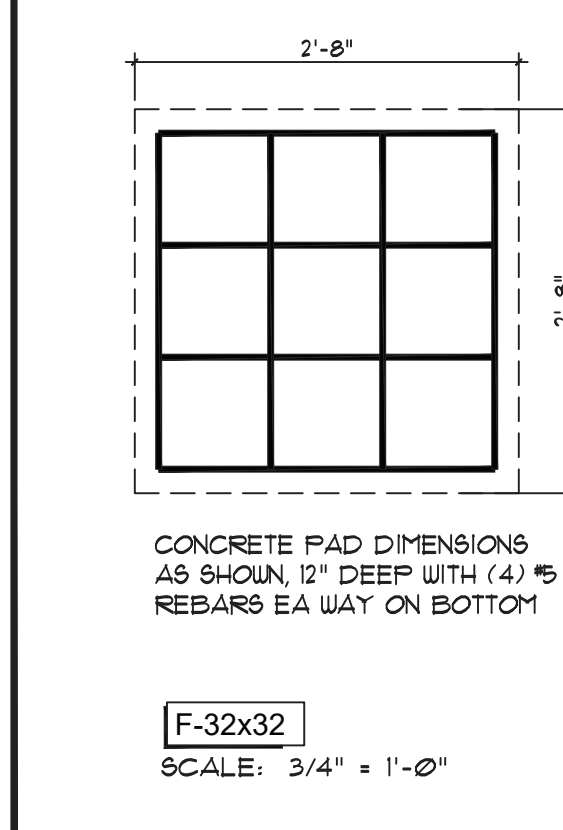
TS-8 THICKEN SLAB (NON BEARING)
SCALE: 3/4" = 1'-0"



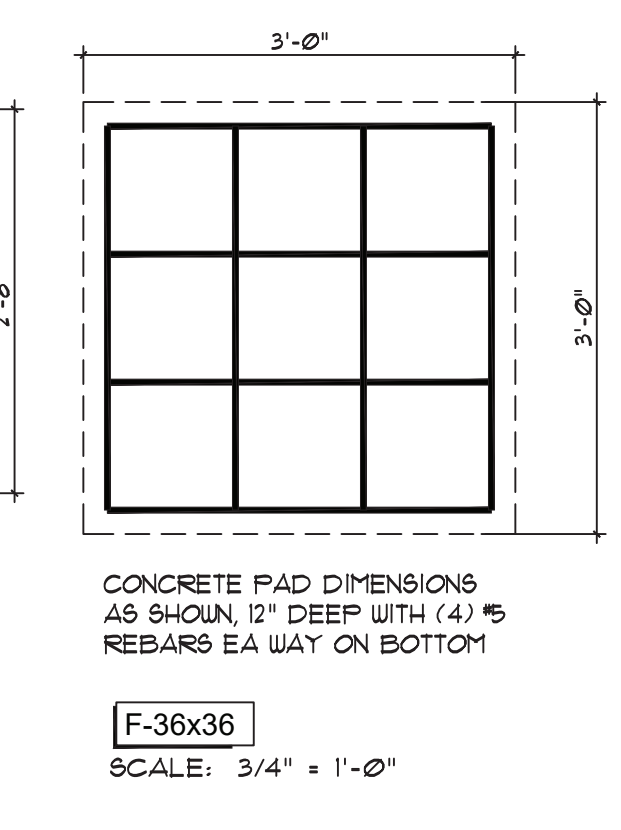
TS-12 12"x12" THICKENED EDGE
SCALE: 3/4" = 1'-0"



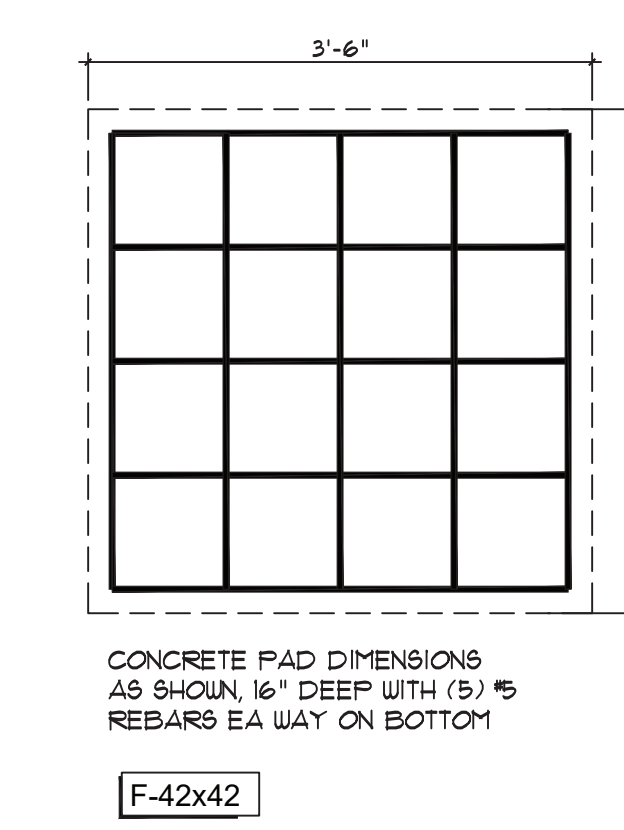
TS-18F THICKEN SLAB FRAME (W/ STEP)
SCALE: 3/4" = 1'-0"



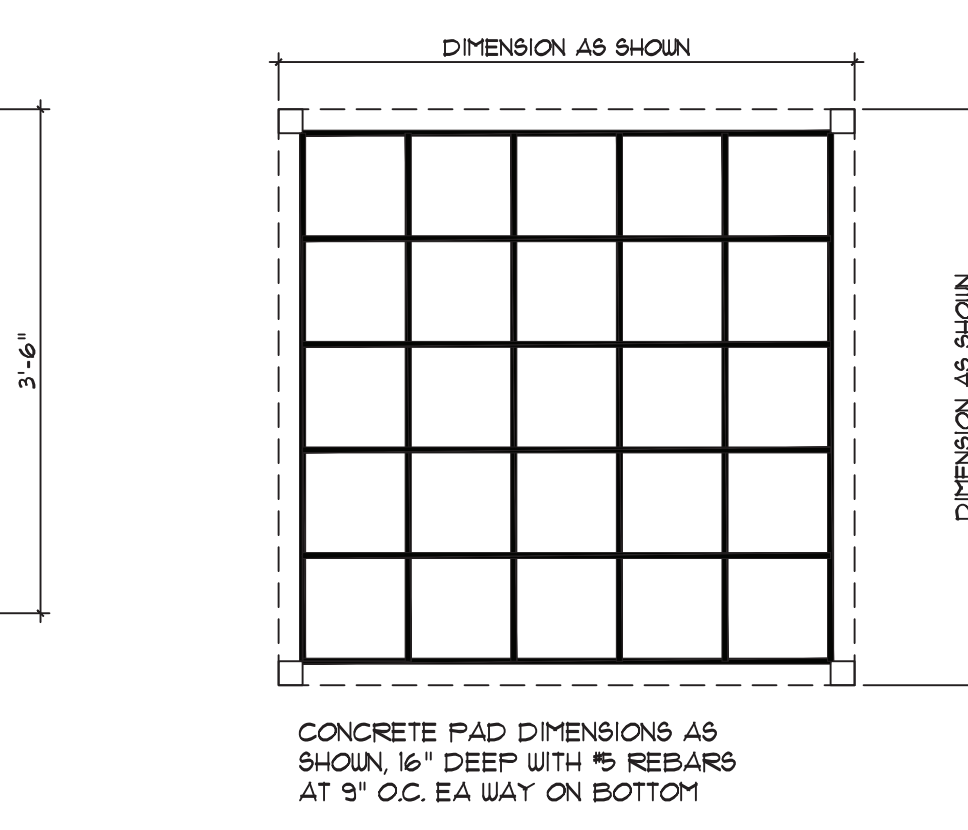
F-32x32
SCALE: 3/4" = 1'-0"



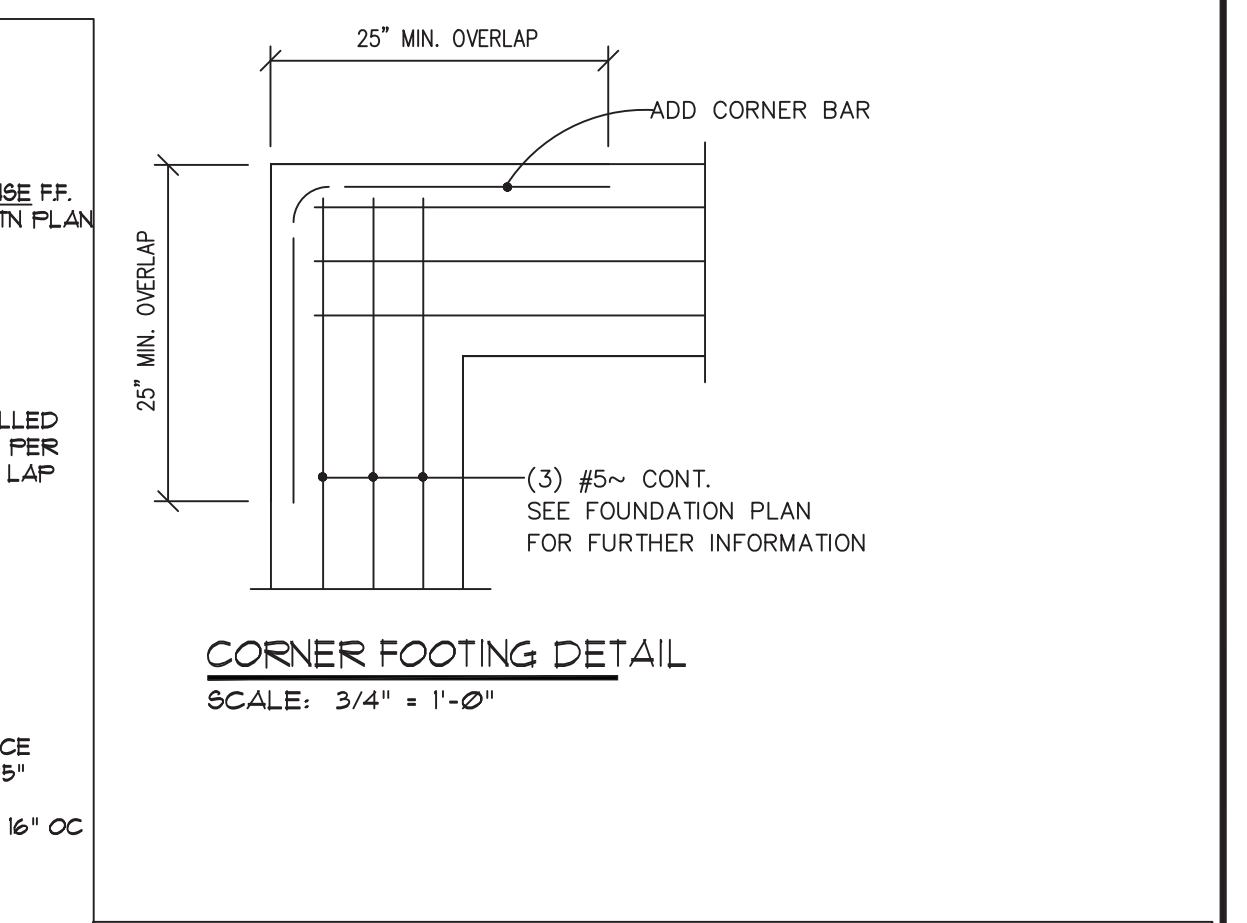
F-36x36
SCALE: 3/4" = 1'-0"



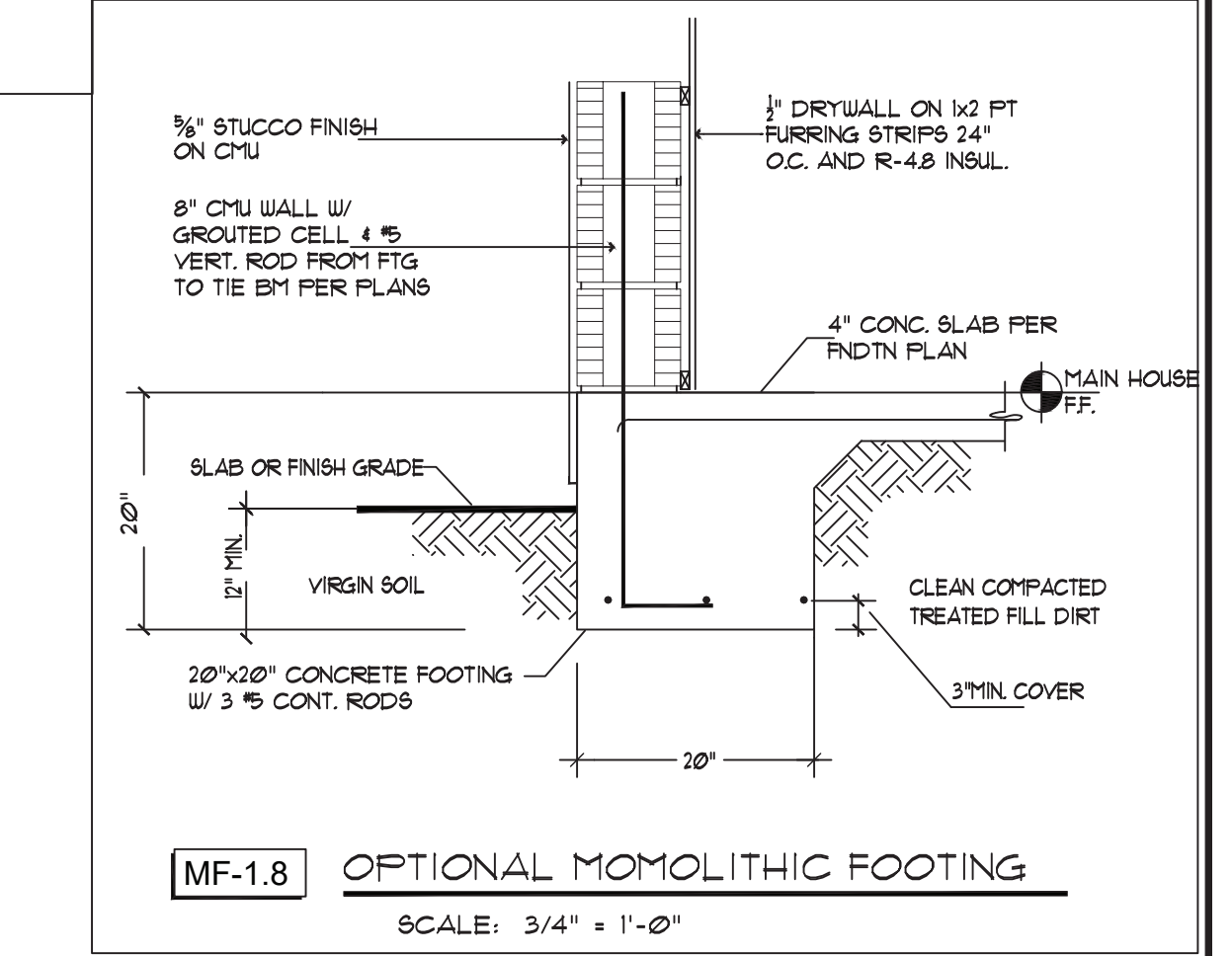
F-42x42
SCALE: 3/4" = 1'-0"



ESF EXTERIOR STAIR FOOTING DETAIL
SCALE: 3/4" = 1'-0"



CORNER FOOTING DETAIL
SCALE: 3/4" = 1'-0"



MF-1.8 OPTIONAL MOMOLITHIC FOOTING
SCALE: 3/4" = 1'-0"

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DATE: _____
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SHEET 1
OF 13 SHEETS

CONNECTOR SCHEDULE	CONNECTOR	FASTENERS	UPLIFT (lbs.)
1	HETA18	(8) 10d x 1 1/2	1450
2	HETA20	1 PLY (10) 10d x 1 1/2 (3) 10d x 1 1/2	1810
3	MTS16 or MTS12	(14) 10d	860
4	H25A	5-8d and 5-8d nails uplift 335	110
5	HDBA	7/8" Ø ANCHOR BOLT (3) 7/8" Ø BOLTS (TYP)	1910
6	HTS20	24 - 10d x 1 1/2"	1245
7	HETA20	1 PLY 10 - 10d x 1 1/2 (3) 10d x 1 1/2	2235
8	HGT-2/3/4	(7) 1/2" ANCHOR BOLTS TO IMPROVE TO GRouted CHU (1) 1/2" ANCHOR BOLT	10530
9	SP-1	6 - 10d	585
10	SP-2	6 - 10d	890
11	SP-4	6 - 10d x 1 1/2"	135
12	CS16-R CUT LENGTH TO FIT	22 - 10d	1650
13	HIDA-1	5-10d x 1 1/2" to rafter/truss 5-10d x 1 1/2" to plates	uplift 1095 uplift 3095
14	LSTA24	18 - 10d	1295
15	LSTA30	22 - 10d	1610
16	LSTA36	26 - 10d	1715
17	MSTA36	26 - 10d	1995
18	HUCQ12-SDS25	4-SDS1/4" x 12" to face 6-SDS1/4" x 12" to joint	grv. 5560 uplift 3075
19	HUS26	14 - 16d	950
20	HGUS48	36 - 16d	2690
21	HHS5010	36-16d nails to ganging bar and 16-16d nails to cantilever beam	grv. 6380 uplift 1345
22	HTT4	1/2" ANCHOR BOLT 5-10d x 1 1/2"	4455
23	HTT5	1/2" ANCHOR BOLT 5-10d x 1 1/2"	5020
24	ABU44Z	1/2" ANCHOR BOLT 5-10d x 1 1/2"	2200
25	ABU66Z	1/2" ANCHOR BOLT 5-10d x 1 1/2"	2475
26	HUCQ12-SDS25	4-SDS1/4" x 12" to face 6-SDS1/4" x 12" to joint	grv. 5560 uplift 3075
27	MST21	18 - 16d	2190
28	HGA10	4-1/2" x 3/4" ANCHOR BOLT 4-1/2" x 3/4" ANCHOR BOLT	1090 uplift uplift 1090
29	HIDA-2 2 FLY	5-10d x 1 1/2" to rafter/truss 5-10d x 1 1/2" to plates	uplift 1095 uplift 3095

CONNECTORS TO EXISTING GROUTED CHU	CONNECTOR	FASTENERS	UPLIFT (lbs.)
30	HTS16	(7) 10d x 1 1/2 NAILS (4) 1/4" x 2 1/2" TAPSCONS	830
31	HTS10	(7) 10d x 1 1/2 NAILS (4) 1/4" x 2 1/2" TAPSCONS	830
32	MSTA24	(7) 10d NAILS (4) 1/4" x 2 1/2" TAPSCONS	1465
33	MSTA36	(7) 10d NAILS (4) 1/4" x 2 1/2" TAPSCONS	1810
34	MSTA40	(7) 10d NAILS (4) 1/4" x 2 1/2" TAPSCONS	2475
35	C16-R CUT LENGTH TO FIT	(1) 10d NAIL (1) 1/4" x 2 1/2" TAPCON	1650
36	HUCQ12-SDS25	4-SDS1/4" x 12" to face 6-SDS1/4" x 12" to joint	grv. 5560 uplift 3075
37	HUCQ12-SDS25	4-SDS1/4" x 12" to face 6-SDS1/4" x 12" to joint	grv. 5560 uplift 3075
38	HUCQ12-SDS25	4-SDS1/4" x 12" to face 6-SDS1/4" x 12" to joint	grv. 5560 uplift 3075
39	MSTA40	(7) 10d NAILS (4) 1/4" x 2 1/2" TAPSCONS	2475
40	HGUS48	36 - 16d	2690
41	MSTA36	(7) 10d NAILS (4) 1/4" x 2 1/2" TAPSCONS	1810
42	HGUS48	36 - 16d	2690
43	MSTA40	(7) 10d NAILS (4) 1/4" x 2 1/2" TAPSCONS	2475
44	HUCQ12 (max) MASONRY HANGER	(2) 1/4" x 3 1/2" TITEN SCREWS (2) 1/4" x 3 1/2" TITEN SCREWS	grv. 4300 uplift 1735

CONNECTOR SCHEDULE	CONNECTOR	FASTENERS	UPLIFT (lbs.)
45	LG72	(1) 10d x 1 1/2 NAIL (1) 1/4" x 2 1/2" TAPCON	1780 uplift 1170 / 92 / 780
46	LG73	(2) 10d x 1 1/2 NAILS TO STUD (2) 10d x 1 1/2 NAILS TO GIRDER	3710 uplift 1780 / 92 / 480
47	MG7	(2) 10d x 1 1/2 NAILS TO STUD (2) 10d x 1 1/2 NAILS TO GIRDER	3965 uplift
48	A35	(2) 10d x 1 1/2 NAILS	270 uplift
49	HGUS48	36 - 16d	2690
50	LG10	TOTAL OF (2) 10d NAILS FOR ONE SIDE APPLICATION RESIST ROTATION AND BLOCKING FROM OPPOSITE SIDE	1780 uplift 1170 / 92 / 780
51	LG73	(2) 10d x 1 1/2 NAILS TO STUD (2) 10d x 1 1/2 NAILS TO GIRDER	3710 uplift
52	ABU66 (MAX)	(1) 1/2" ANCHOR BOLT (1) 1/2" ANCHOR BOLT	UPLIFT 225 LAT. 2670

UNLESS NOTED OTHERWISE:

- WHERE CONNECTOR NOT NOTED FOR TRUSS TO FRAME USE (3) TRUSS TO NEW CHU USE (1) TRUSS TO EXIST. CHU USE (2)
- ALL INTERIOR BEAMS USE (6) X 2 ON FRAME AND (2) X 1 ON BLOCK
- ALL CONVENTIONALLY FRAMED MEMBERS USE 4 - 10d TOE NAILS AT EACH END OF MEMBER
- USE HARRIS 40 TYP HANGER AND HGUS48 AS 2 PLY HANGER
- MINIMUM 6" EMBEDMENT FOR ANCHOR BOLTS TO SLAB

TYPICAL MASONRY (1) EMBEDDED TRUSS ANCHOR HETA20 SHALL BE MINIMUM 18 GAUGE W/ FASTENERS 9-10d x 1 1/2" NAILS - 1810 LBS UPLIFT

TYPICAL MASONRY (2) EMBEDDED TRUSS ANCHORS HETA20 AFFLIED TO A MULTIPLE PLY GIRDER TRUSS, ONE FROM EACH SIDE, SHALL BE MINIMUM 18 GAUGE W/ FASTENERS 12-10d NAILS - 2500 LBS UPLIFT

- (1) 5/8" x 1/2" PARALLAM OR LAM POST W/ (2) AT BASE AND (2) AT TOP
- (2) 6"x6" P.T. POST W/ (1) X 2 OR (2) X 2 POST/BEAM OR GIRDER AND ABU66 AT BASE
- (3) 4"x4" P.T. POST W/ (2) X 2 OR (2) X 2 POST/BEAM OR GIRDER AND (2) X 2 BASE TO MASONRY OR (2) X 2 TO WOOD (TYP)
- (4) 4"x4" P.T. POST W/ (3) X 3 POST/BEAM OR (3) X 3 BASE (TYP)
- (5) 8"x8" P.T. POST W/ (2) X 2 POST/BEAM OR (2) X 2 BASE (TYP)
- (6) 5/8" x 1/2" PARALLAM OR LAM POST W/ (2) AT BASE AND (2) X 2 AT TOP TO GIRDER OR BEAM
- (7) 1"x1" OR 1"x3/4" PARALLAM POST W/ (2) AT BASE AND (2) X 2 AT TOP TO BEAM
- (8) 5/4"x5/4" PARALLAM POST W/ (3) MSTA36 + (1) HGA10 AT TOP TO BEAM, IF FLOOR CONNECTION IS REQUIRED, APPLY HTS FROM TOP AND BOTTOM CONNECTION AT BASE W/ HTS
- (9) 3/4"x3/4" PARALLAM OR LAM POST W/ (2) AT BASE AND COLUMN CAP CCG46SDS25 WITH STRAPS ROTATED 90°
- (10) 3/4"x3/4" LAM POST W/ (2) MSTA36 + (1) HGA10 AT BASE TO GIRDER OR BEAM AND CONNECTION AT TOP WITH LG72 FROM FROM THE FRONT ONE HGA10 FROM ONE SIDE
- (11) 3/4"x3/4" OR 3/4"x5/4" VERSA LAM POST SITS ON CHU W/ HTS AT BASE AND ACAR (max) (LCE4Z CORNER) POST CAP TO BEAM
- (12) MSTA20 AT TOP TO BEAM OR GIRDER TRUSS
- (13) 5/8" x 1/2" OR 5/8" x 3/4" PARALLAM OR LAM POST W/ (2) AT BASE AND (2) X 2 AT TOP TO GIRDER OR BEAM
- (14) DBL 2x2 BLOCKING IN BETWEEN TRUSSES WHUC42 AT EACH END, APPLY 3/4" PLYWOOD GUSSET TO TRUSS FOR HANGER FILL NAILING CONNECTION
- (15) 1"x1" PARALLAM POST W/ HDBA AT BASE AND (3) MSTA36 OR DOUBLE HDBA AT TOP
- (16) 3/4"x3/4" OR 5/8" x 3/4" VERSA LAM POST W/ HTS FROM THE TOP AND FROM UNDERNEATH FOR POST TO GIRDER OR BEAM LAM POST DOWN TO LVL BEAM W/ (3) MSTA36 + (2) HGA10 OR TO CONCRETE W/ HTS

ROOF NAILING SCHEDULE

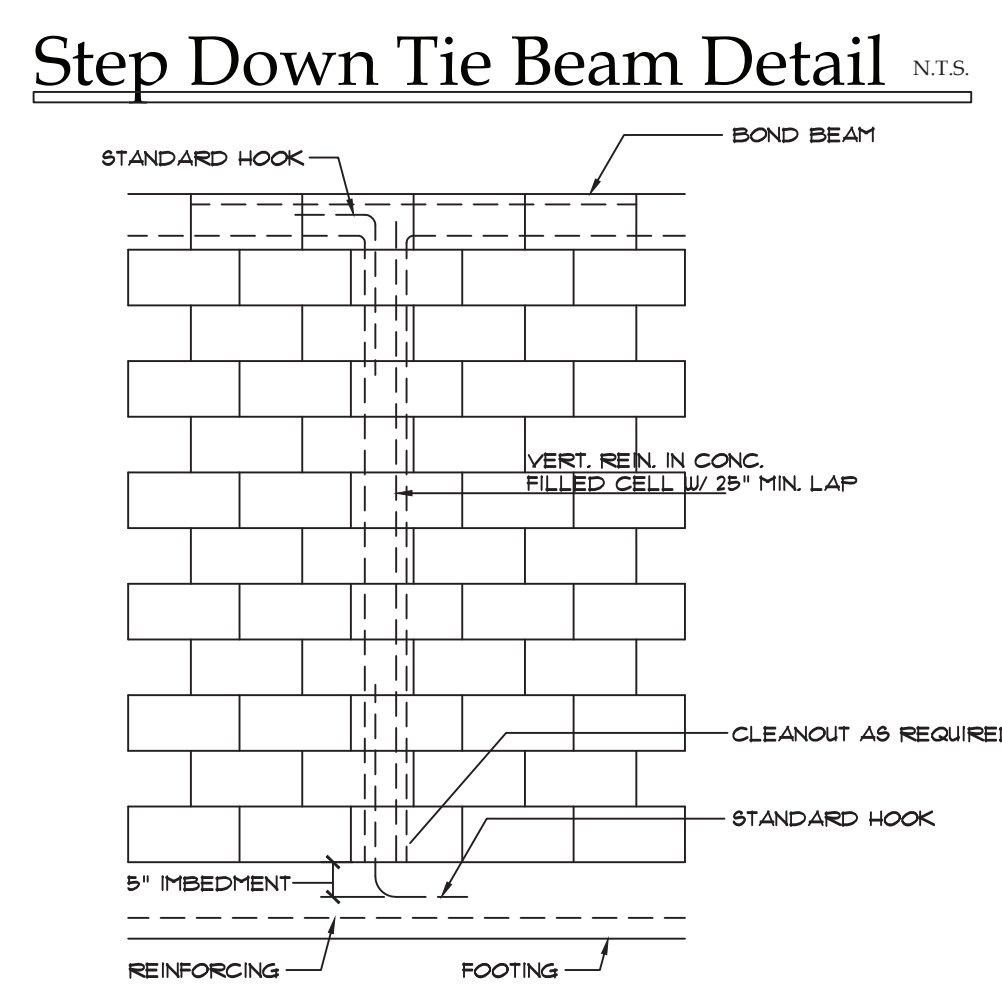
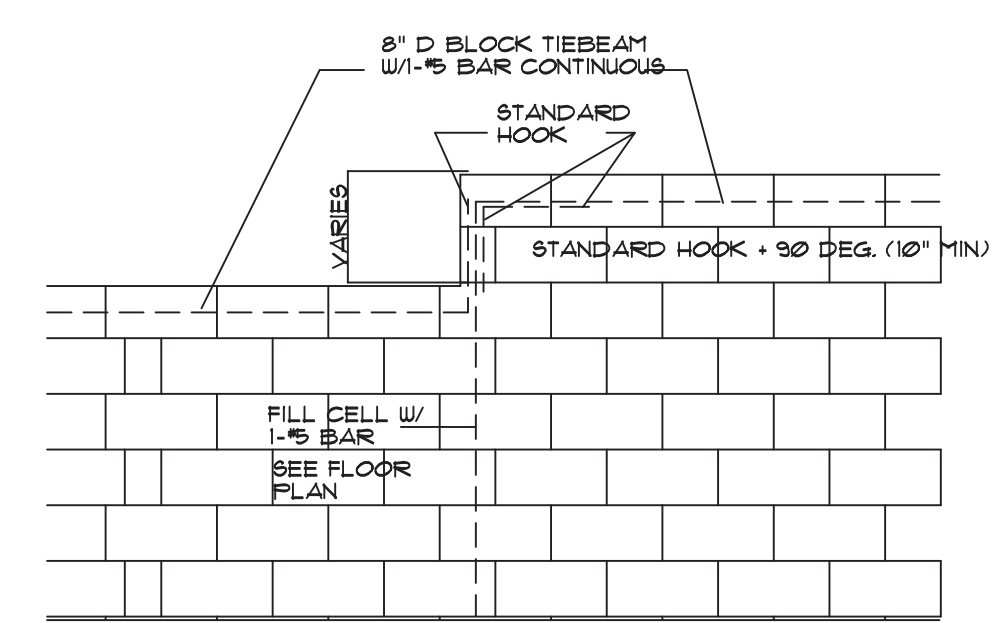
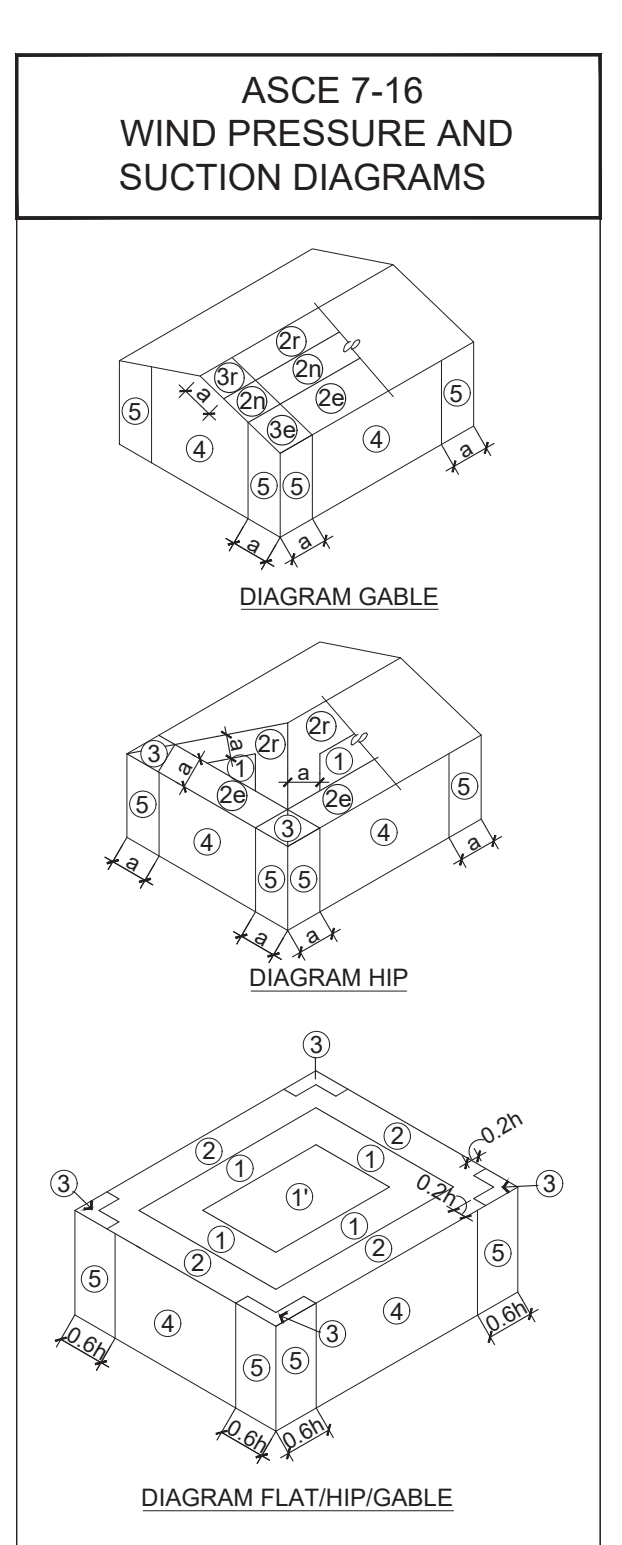
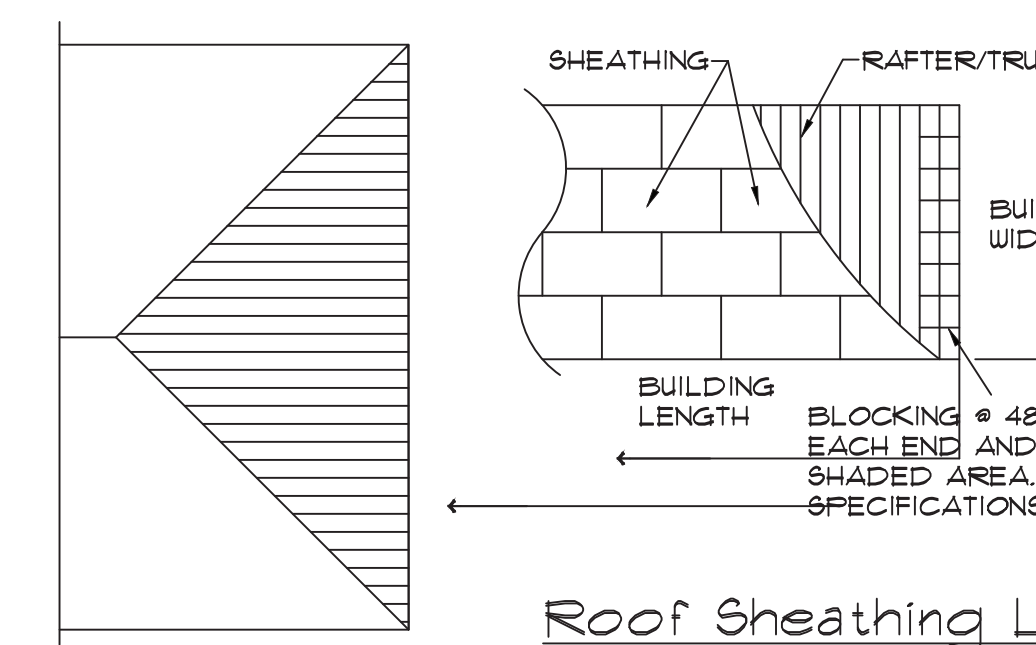
NAILING ZONES SHINGLE, METAL AND TILE

Where the sheathing thickness is greater than 15/32 inches, sheathing shall be fastened with ASTM F1667 RRS-03 (2 1/2" x 0.131") nails or ASTM F1667 RRS-04 (3" x 0.131") nails. RRS-01, RRS-02 and RRS-04 are ring shank nails meeting the specifications in ASTM F1667.

FOR 3/8" OR LESS SHEATHING, ASTM F1667 RRS-01 (2 1/2" x 0.131") nails.

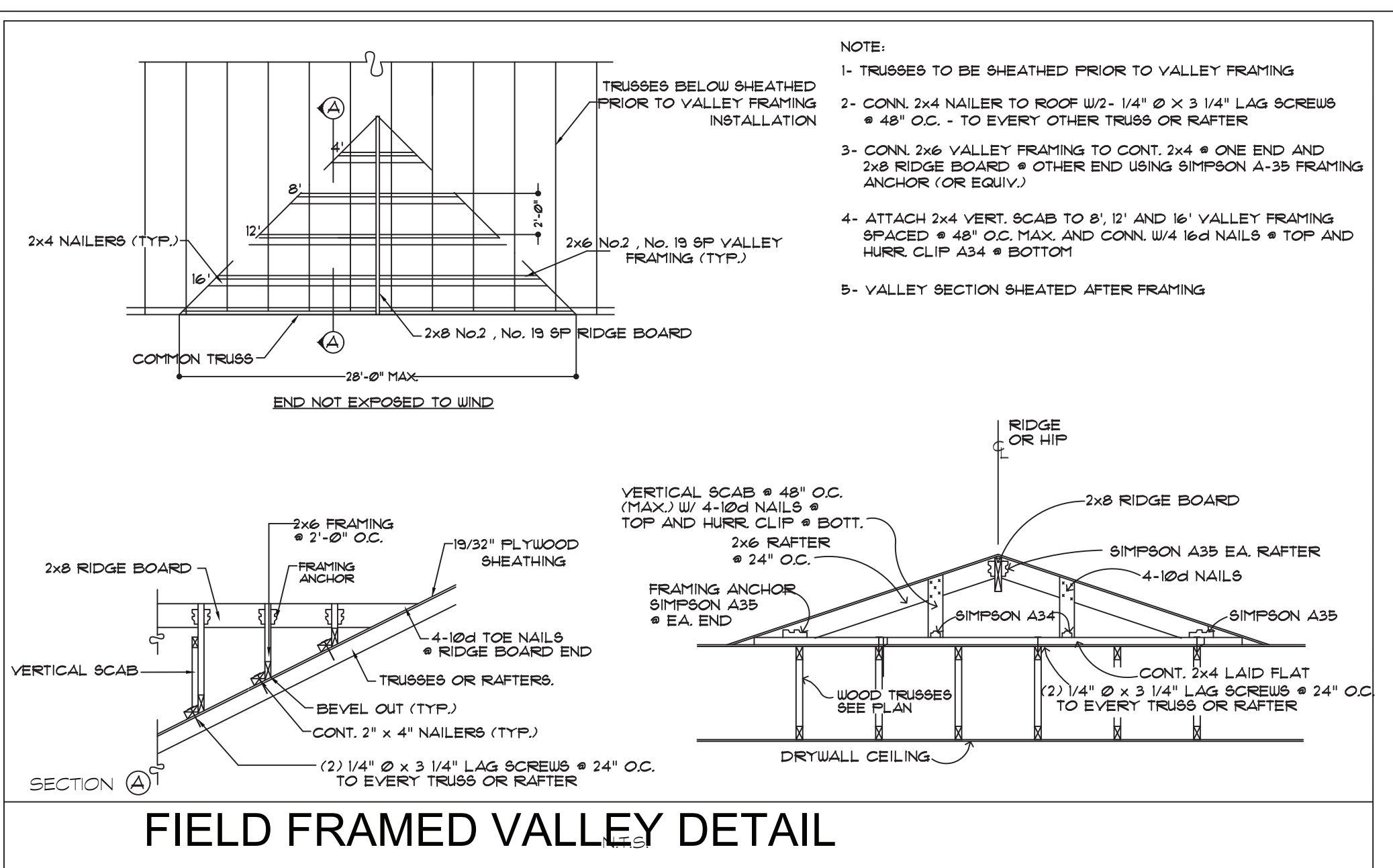
- FLAT/HIP/GABLE ROOF 0 TO 7 DEGREE**
- ZONE 1 ----- : 6" O.C. EDGE AND 6" O.C. IN FIELD
- ZONE 2 ----- : 6" O.C. EDGE AND 6" O.C. IN FIELD
- ZONES 3 AND 4 : 4" O.C. EDGE AND 4" O.C. IN FIELD
- GABLE SYSTEMS**
- ZONES 1 AND 2 : 6" O.C. EDGE AND 6" O.C. IN FIELD
- ZONES 3 AND 4 : 6" O.C. EDGE AND 6" O.C. IN FIELD
- ZONES 5 AND 6 : 4" O.C. EDGE AND 4" O.C. IN FIELD
- HIP SYSTEMS**
- ZONE 1 ----- : 6" O.C. EDGE AND 6" O.C. IN FIELD
- ZONE 2 ----- : 6" O.C. EDGE AND 6" O.C. IN FIELD
- ZONES 3 AND 4 : 4" O.C. EDGE AND 4" O.C. IN FIELD

- 1x12 / 1x10 BOARD (3) 10d. NAILS PER BOARD EDGES 4 FIELD ALL ZONES
- 1x6 / 1x8 BOARD (2) 10d. NAILS PER BOARD EDGES 4 FIELD ALL ZONES
- NOTE:**
- (1) EDGE SPACING ALSO APPLIES OVER GABLE END WALLS OR TRUSSES
 - (2) PASLODE 3" x 20" DIAMETER POWER DRIVEN COATED SCREW NAILS MAY BE USED IN LIEU OF 10d RING SHANK NAILS WITH REDUCED SPACING AS NOTED BELOW.
 - (3) SPACING CHANGES TO 8", 6", 4", AND 4" OR 3" CHANGES TO 2 1/2".
 - 1/2" GYPSUM CEILING: Use 8d Nails @ 1" on center
 - SECOND FLOOR NAILING: 10d @ 6" O.C. Edges (glue 4 nail) @ 12" O.C. Field

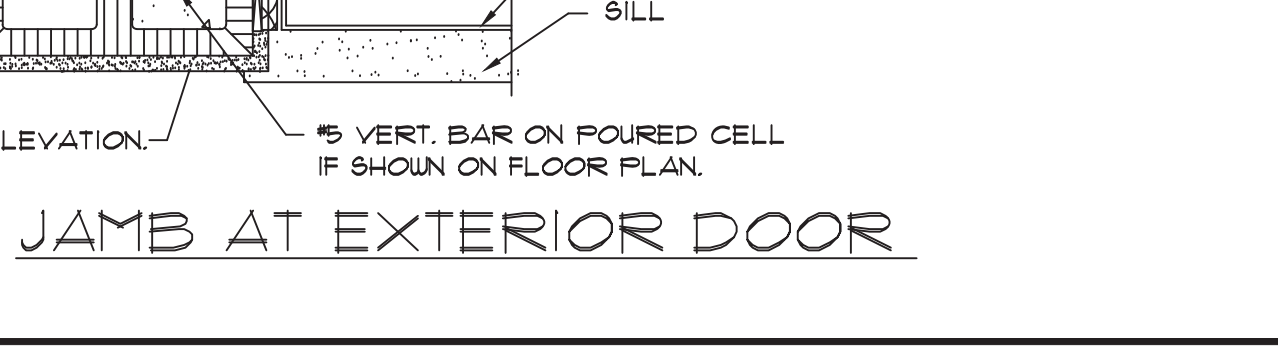
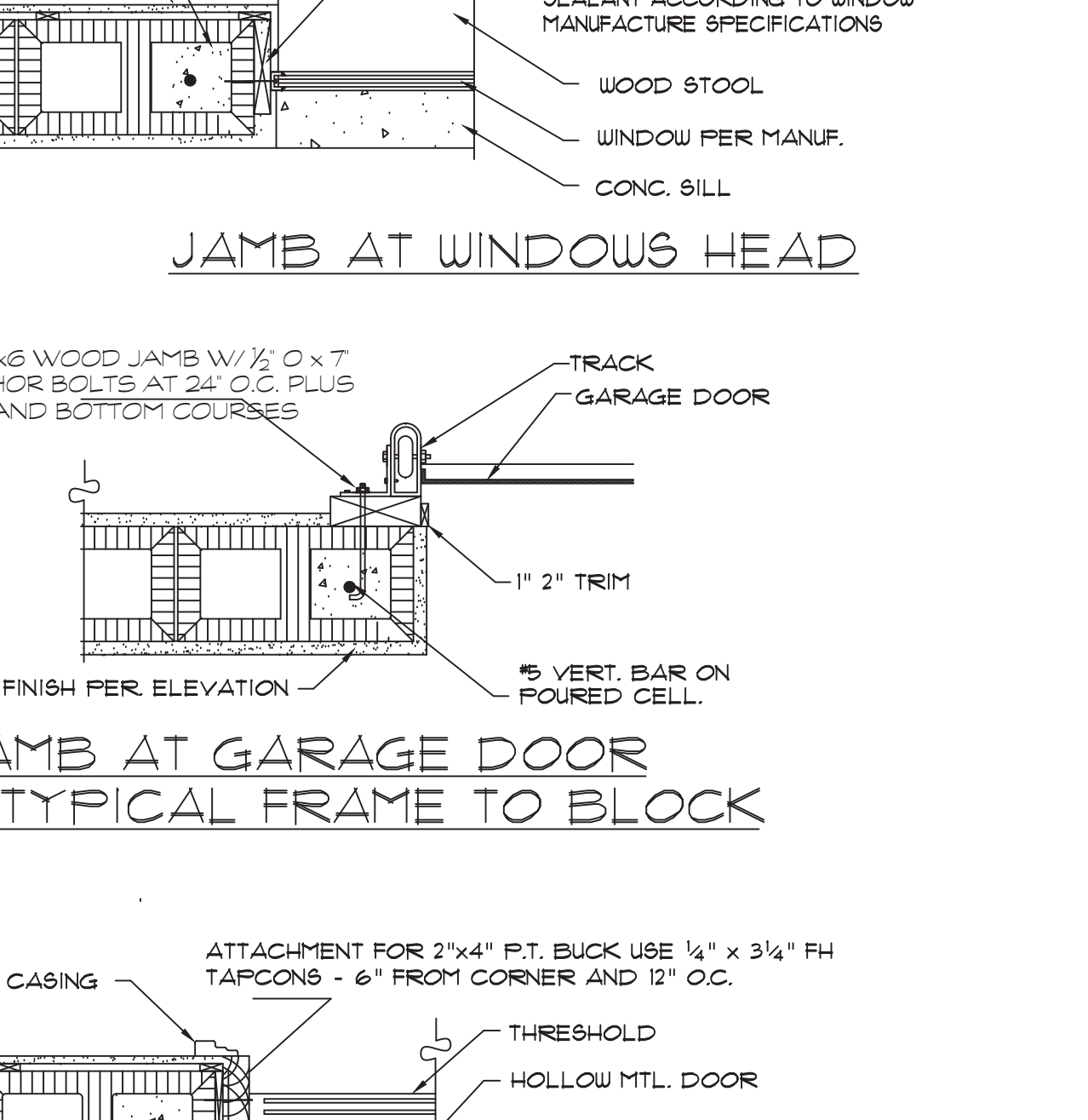
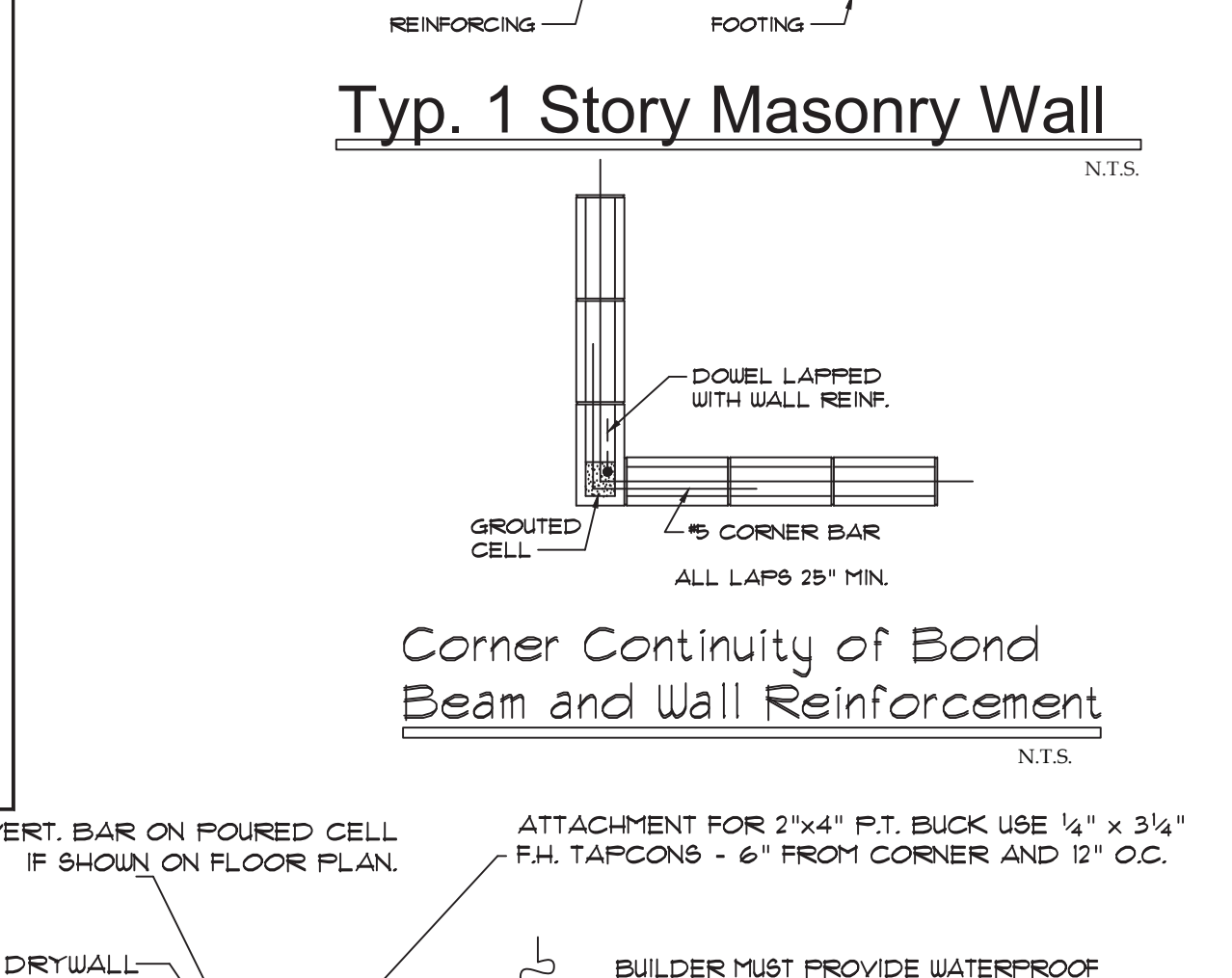
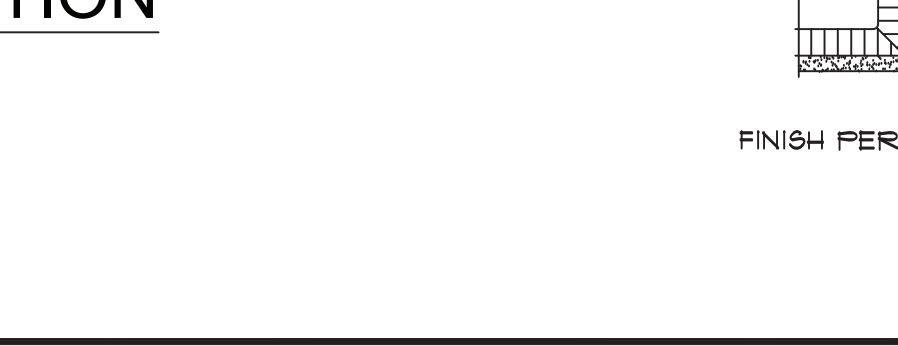
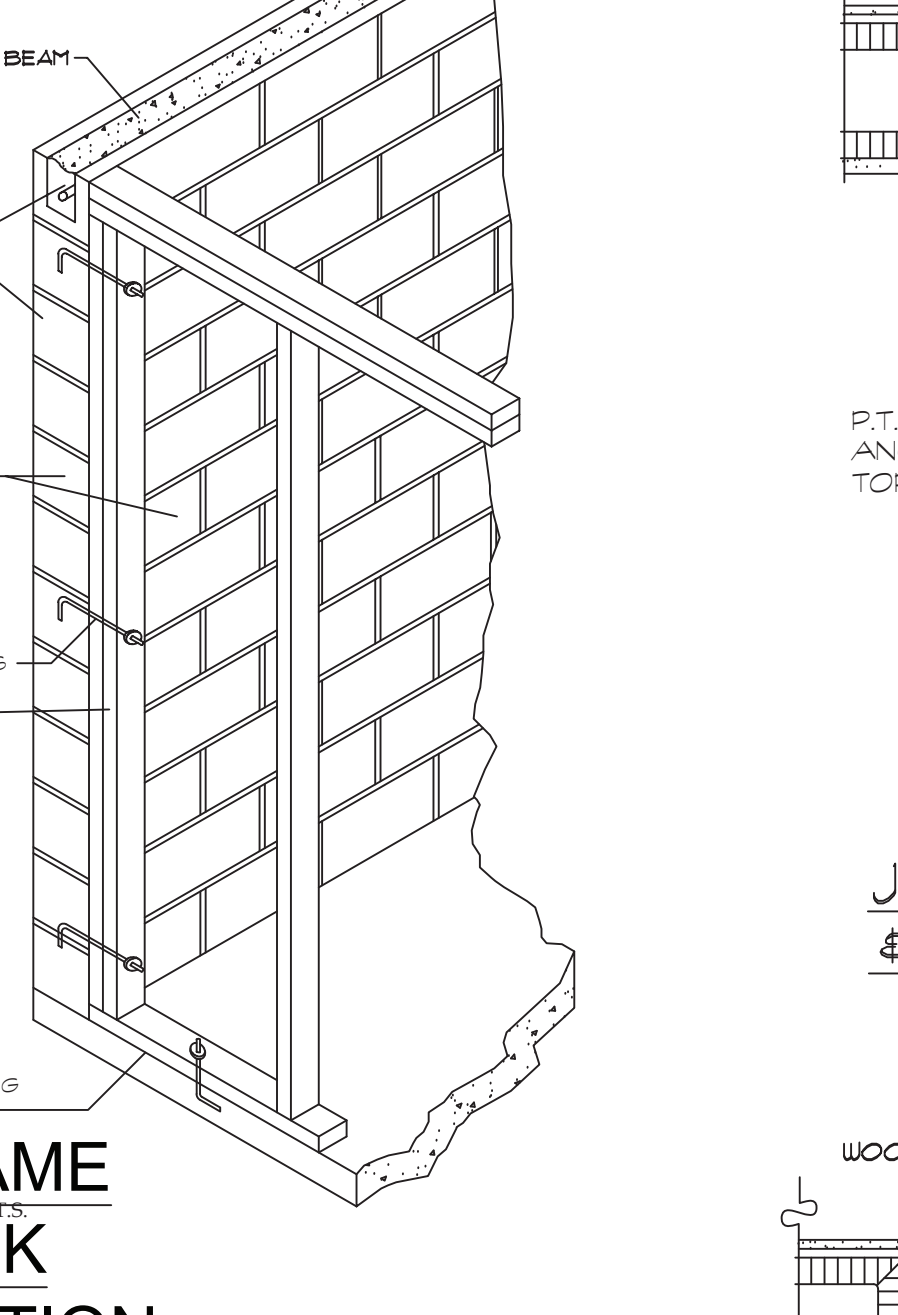
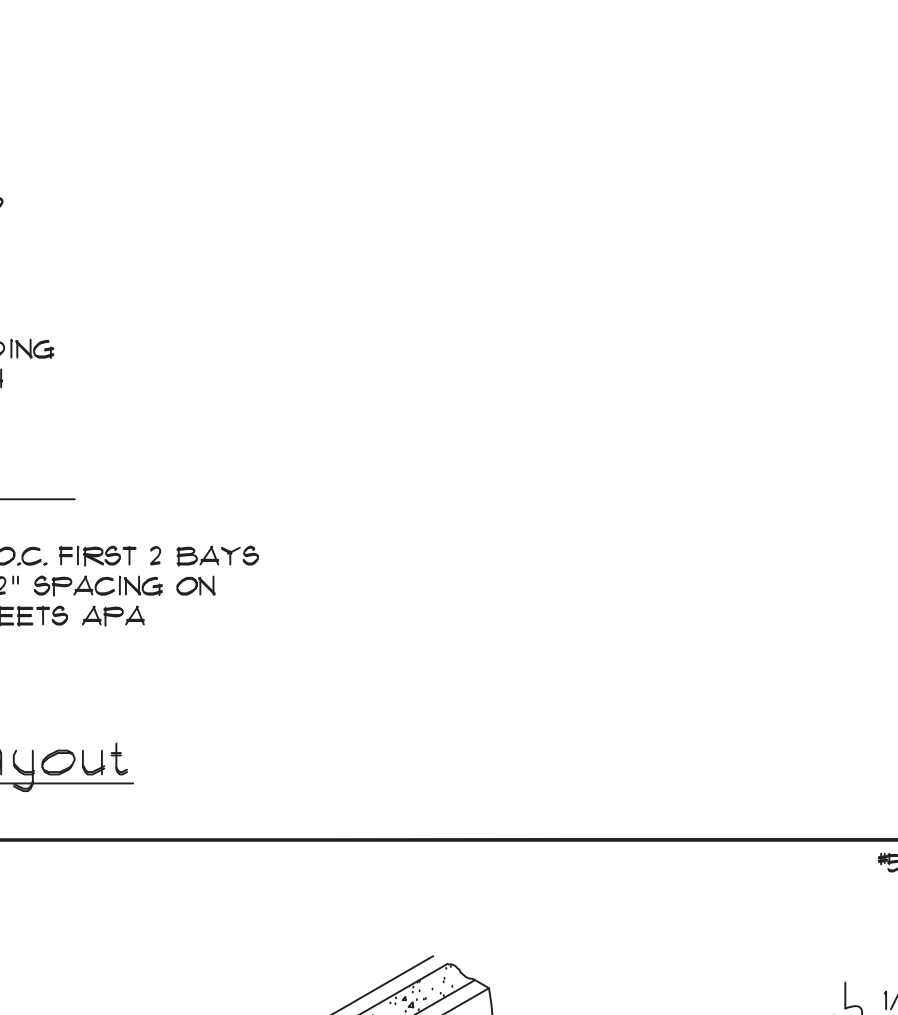
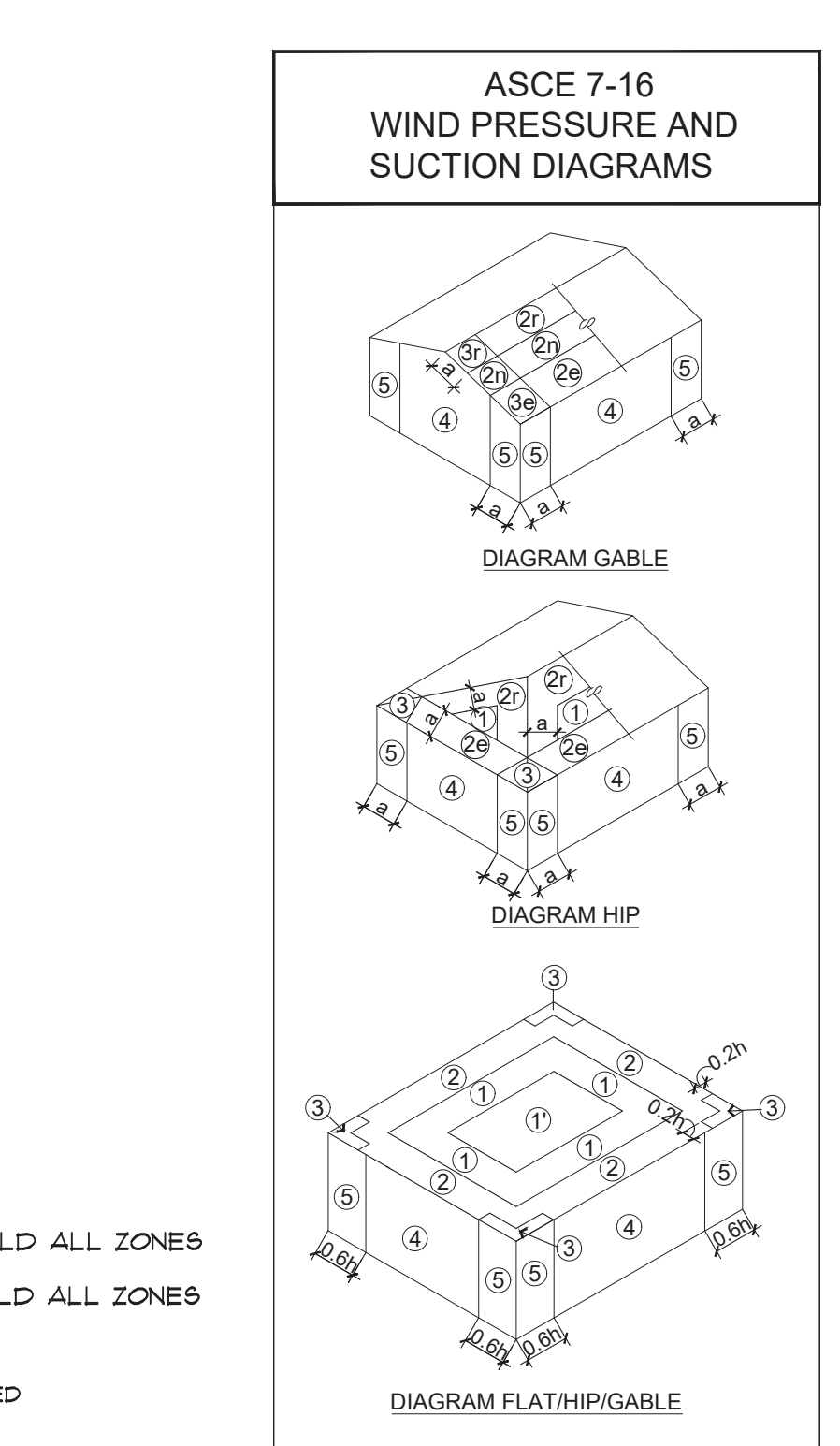


- TYPICAL CONNECTIONS AND DETAILS**
- (1) 2nd FLOOR STUDS TO FLOOR SYSTEM WITH MSTA36 AT 32" O.C. OR CS16-R 92" LONG AT 32" O.C. AND AT CORNERS, ENDS AND TUD AT EACH SIDE OF OPENINGS
 - (2) 2nd/3rd FLOOR STUDS TO FLOOR SYSTEM WITH MSTA36 AT 32" O.C. AND (2) AT CORNERS, ENDS AND AT EACH SIDE OF OPENINGS
 - (3) 2x6 OR 2x8 OR 2x10 LEDGER BOARD W/ (3) 1/2"x4" WOOD SCREWS AT 16" O.C. AT FRAME WALL OR 1/2"x4" WOOD SCREWS AT 6" TO ALL TRUSS MEMBERS OR 3/4" SIMPSON TITEN ANCHORS AT 12" O.C. TO GROUTED CHU
 - (4) 2x12 OR 2x10 LEDGER BOARD W/ (3) 1/2" x 3/4" NAILS AT 16" O.C. AT FRAME WALL OR (2) 1/2" NAILS AT 16" O.C. TO STUDS AND 1/2" NAILS AT 21" O.C. TO PLATE OR 10d x 3" NAILS AT 6" TO ALL LAPPED TRUSS MEMBERS OR (3) STAGGERED ROUS OF 1/2" NAILS AT 24" O.C. TO BEAM
 - (5) CONT. 1 3/4" x FLOOR DEPTH LVL. RIMBOARD WITH HETA20 AT 24" O.C. TO GROUTED CHU AND MSTA36 OR CS16-R 92" LONG AT 32" O.C. TO 2nd FLOOR FRAME
 - (6) OPTIONAL 2x4 TOP AND BOTTOM RIBBON W/ HETA20 AT 24" O.C. AND A35 AT BOTTOM 2x4 RIBBON TO EACH TRUSS
 - (7) DOUBLE 2x8 OR 2x10 OR 2x12 LEDGER BOARD AS FOLLOWS FOR CONNECTION TO GROUTED CHU APPLY (2) ROUS OF 3/4" SIMPSON TITEN ANCHORS AT 18" O.C. MIN. 5" EMBED
 - (8) CONT. 1 3/4" x FLOOR DEPTH LVL. RIMBOARD WITH HETA20 AT 24" O.C. TO GROUTED CHU AND MSTA36 OR CS16-R 92" LONG AT 32" O.C. TO 2nd FLOOR FRAME
 - (9) OPTIONAL 2x4 TOP AND BOTTOM RIBBON W/ HETA20 AT 24" O.C. AND A35 AT BOTTOM 2x4 RIBBON TO EACH TRUSS
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 - (11) LAG BOLTS AT 16" O.C. IF REQUIRED, BUILD UP DOUBLE LEDGER W/ 2x4 PLATE FASTEN DOWN WITH TWO STAGGERED ROUS OF 1/2" NAILS AT 12" O.C. TO LEDGERS

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- NOTE:**
- TRUSSES TO BE SHEATHED PRIOR TO VALLEY FRAMING
 - CONN. 2x4 NAILER TO ROOF W/ 2 - 1/4" x 3 1/4" LAG SCREWS @ 48" O.C. - TO EVERY OTHER TRUSS OR RAFTER
 - CONN. 2x6 VALLEY FRAMING TO CONT. 2x4 @ ONE END AND 2x8 RIDGE BOARD @ OTHER END USING SIMPSON A-35 FRAMING ANCHOR (OR EQUIV.)
 - ATTACH 2x4 VERT. SCAB TO 8", 12" AND 16" VALLEY FRAMING SPACED @ 48" O.C. MAX. AND CONN. W/ 4 10d NAILS @ TOP AND HURR CLIP A34 @ BOTTOM
 - VALLEY SECTION SHEATHED AFTER FRAMING



REVISIONS BY

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