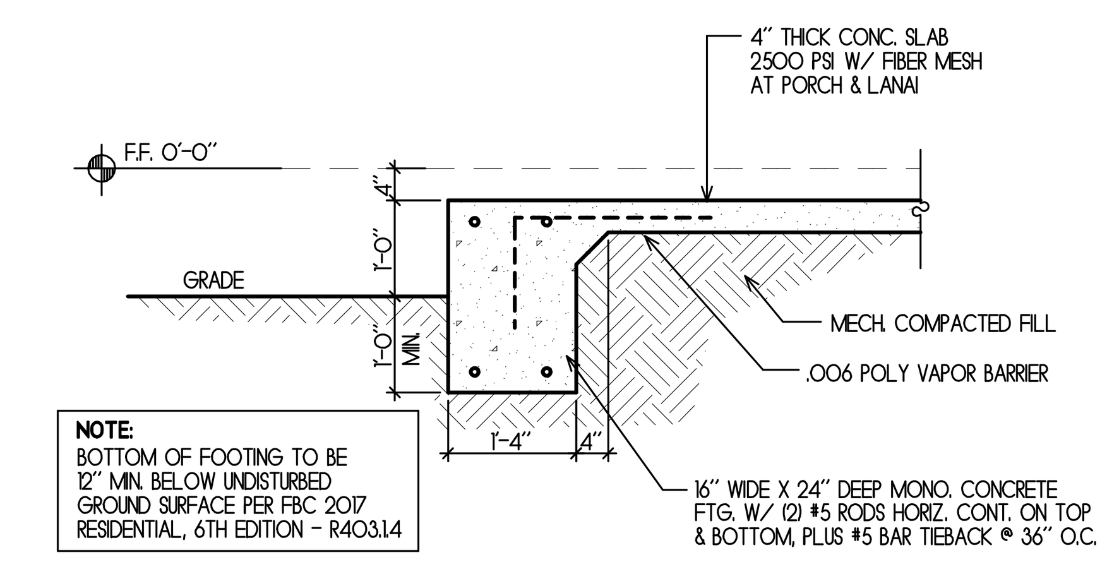
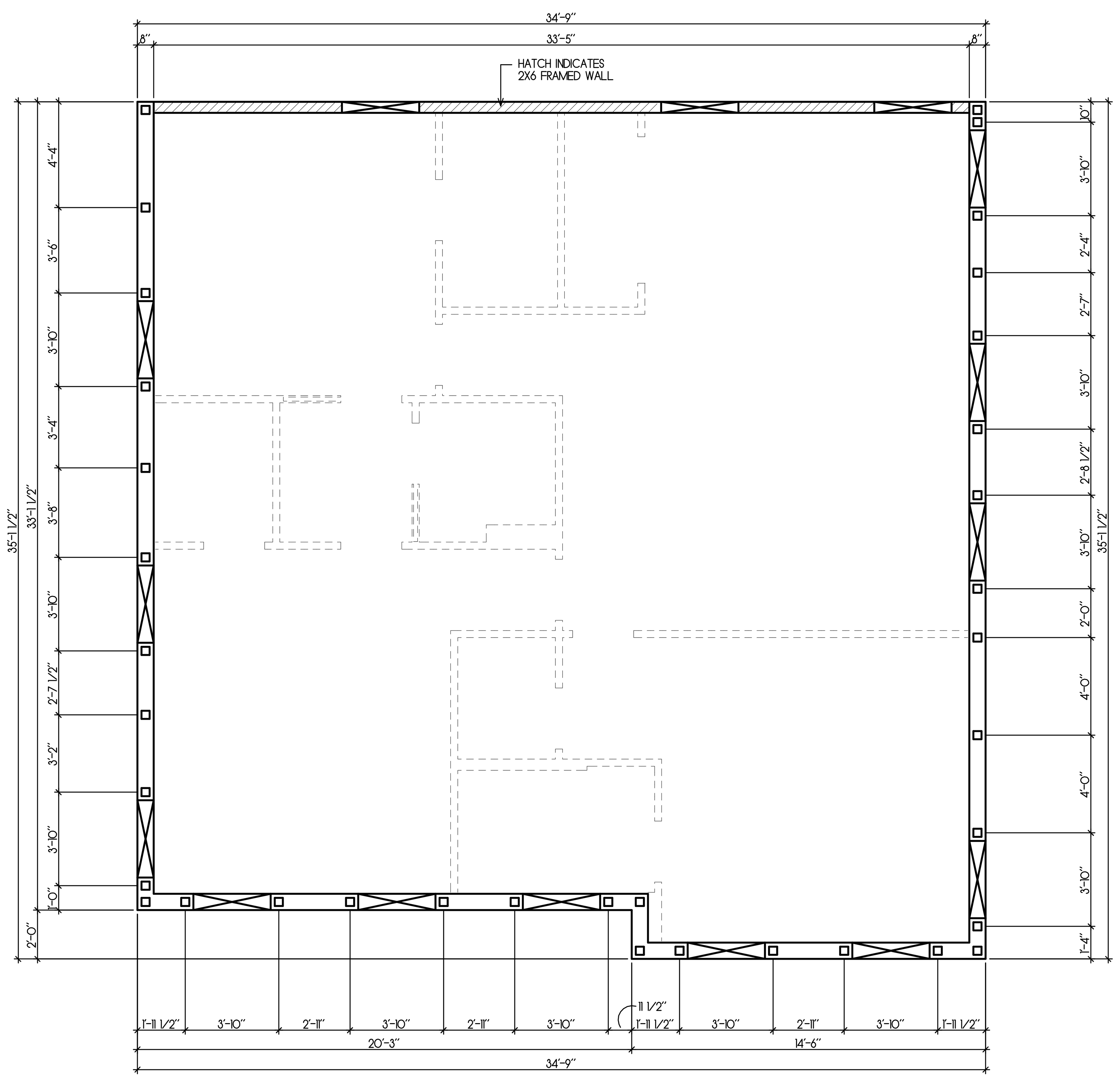


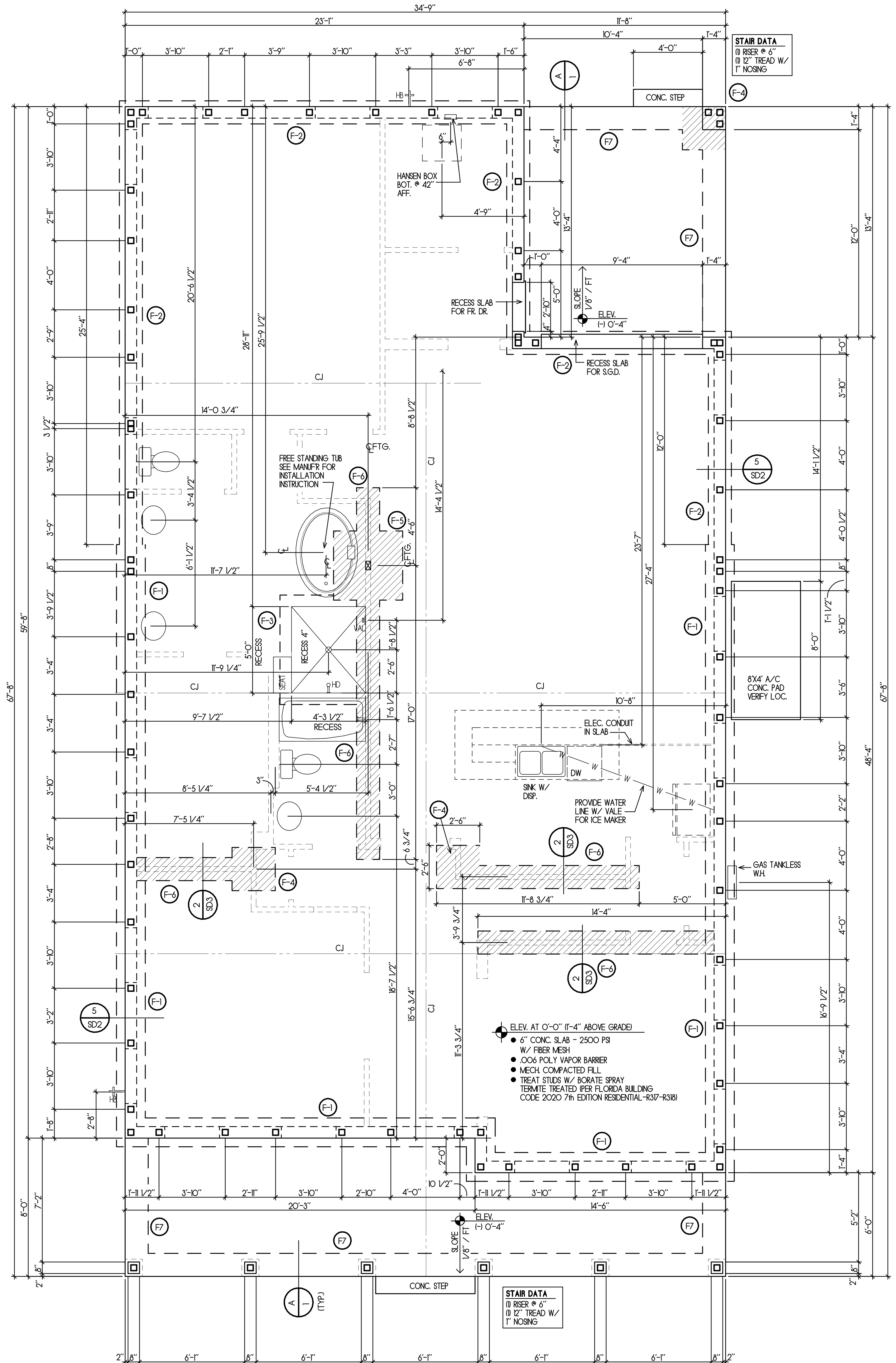
A/1 DEEP MONOLITHIC FTG. DETAIL

SCALE - 1/2" = 1'-0"



SECOND FLOOR FILLED CELL PLACEMENT PLAN

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



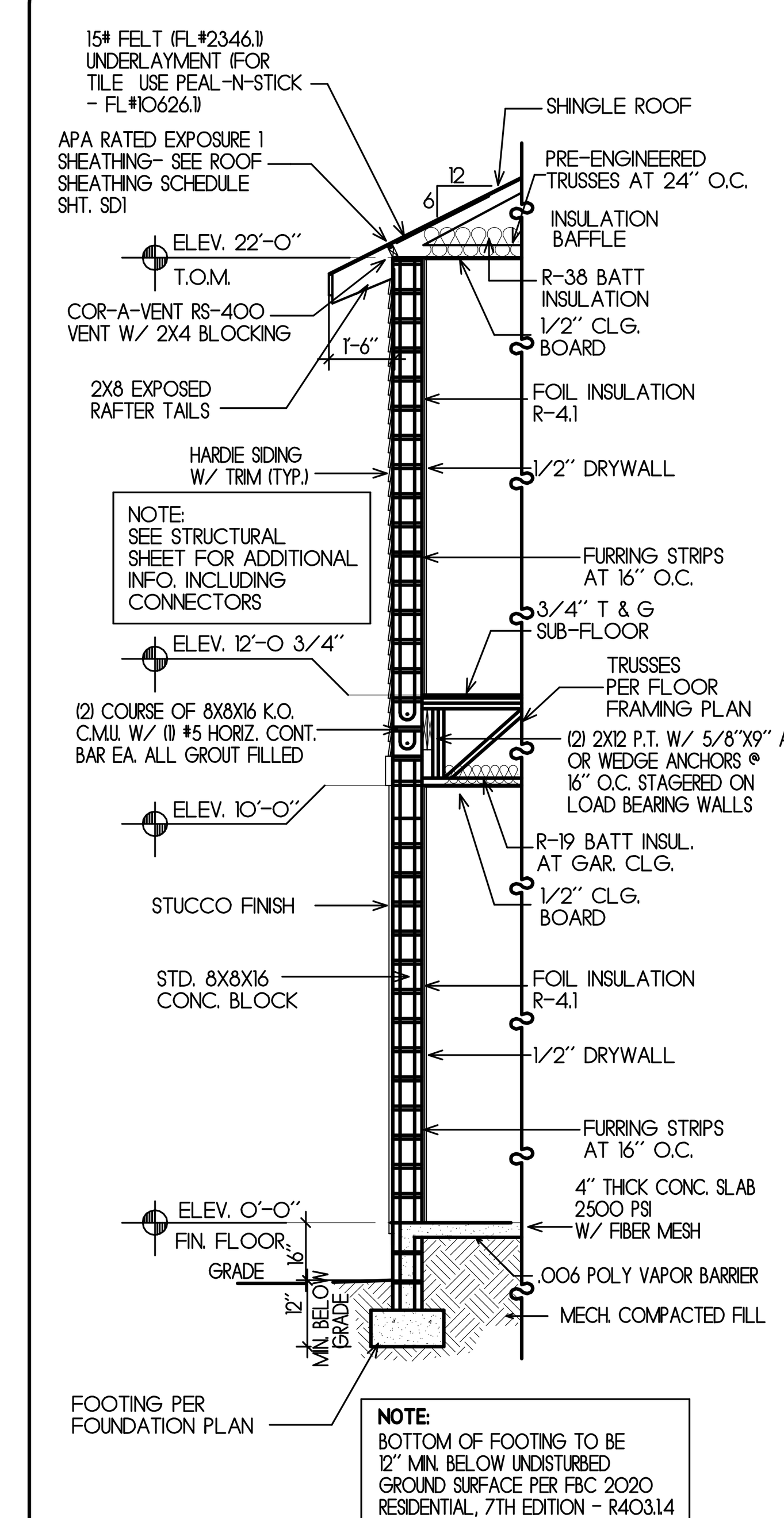
FOUNDATION PLAN

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

TERMITE PROTECTION:

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.

NOTE:
THE FRONT PORCH IS TO BE ELEVATED AT LEAST 12" ABOVE EXISTING GRADE



WALL SECTION

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

FOUNDATION DESIGN BASED ON:		
SOIL CAPACITY:	2,000	PSF
GEOTECHNICAL REPORT PREPARED BY:		
NAME OF COMPANY:		
ADDRESS:		
PHONE:		
REPORT NO.:		
DATE:		

RECESS NOTES:

- S.G.D. RECESS TO BE 2-1/2".
- FR. DR. RECESS TO BE 3/4" (NO RECESS IF COVERED BY ROOF AREA).
- SERVICE DOOR RECESS TO BE 3/4".
- GARAGE DOOR RECESS TO BE 3/4".

C.J. - INDICATES 1/4" SAW CUT CONTROL JOINTS (MAX. 18'-0" APART TYP.)

☐ INDICATES (1) #5 DOWEL TIED FROM FTG. TO LINTEL STEEL POUR CELL SOLID W/ CONC.

FOOTING SCHEDULE

- F-1: 20" WIDE X 12" DEEP STEM WALL CONC. FTG. W/ (3) #5 RODS CONTINUES
- F-2: 16" WIDE X 10" DEEP STEM WALL CONC. FTG. W/ (2) #5 RODS CONTINUES
- F-3: 8" WIDE X 8" DEEP THICKENED CONC. FTG. W/ (1) #5 RODS CONTINUES
- F-4: 30" SQ. X 16" DP. CONCRETE FOOTING W/ #5 RODS AT 6" O.C. EACH WAY
- F-5: 48" SQ. X 12" DP. CONCRETE FOOTING W/ #5 RODS AT 6" O.C. EACH WAY
- F-6: 16" WIDE X 16" DEEP MONOLITHIC CONC. FTG. W/ (2) #5 RODS CONTINUES (TYP. AT INT. BRG. WALL, U.N.O.)
- F7: 16" WIDE X 24" DEEP MONO. CONCRETE FTG. W/ (2) #5 RODS HORIZ. CONT. ON TOP & BOTTOM, PLUS #5 BAR TIEBACK @ 36" O.C. SEE DETAIL A/1 (TP. AT PORCH & LANAI, U.N.O.)

GENERAL NOTES:

- ALL ANGLES ARE 90° OR 45° U.N.O.
- ALL FRAME WALL DIMENSIONS ARE TO ℄ OF WALL
- ENTRY, LANAI, AND GARAGE SLAB TO PITCH AWAY FROM MAIN HOUSE AT 1/8" PER FT.
- ALL OUTSIDE SLAB FINISHES TO BE BROOM FINISH CONC.

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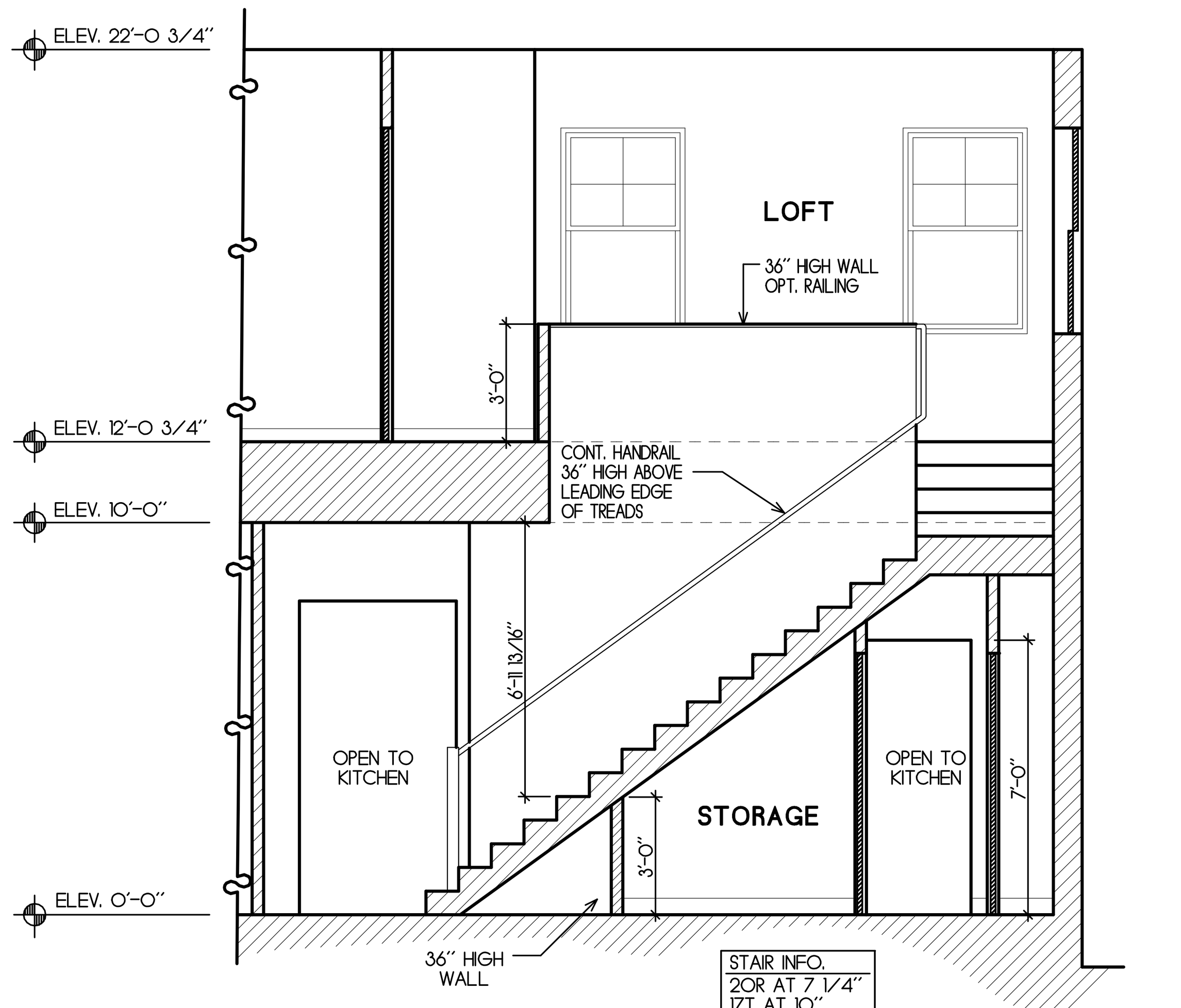
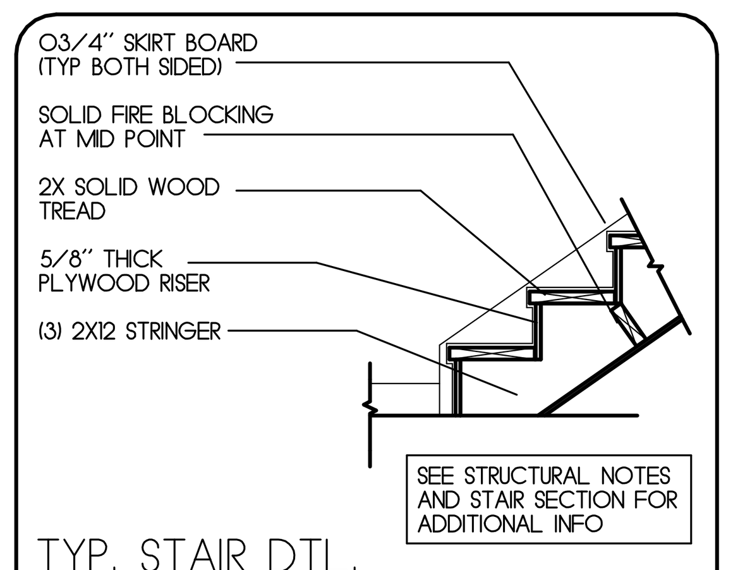


STAIR SECTION

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



TYP. STAIR DTL.

SCALE: 1/2" = 1'-0"

WOOD STAIR CONNECTION NOTES:

- (3) 2X12 PT STAIR STRINGER ATTACHED TO TOP AND BOTTOM LANDING BEAM OR GIRDER USING SIMPSON A34
- ATTACH EACH STAIR STRINGER TO CONCRETE SLAB USING SIMPSON HL33 W/ 1-1/2"X3" A.B. TO CONCRETE & 1-1/2" THRU BOLT TO STRINGER
- AT LANDING:
  1. USE 2X8 JOISTS AT 16" O.C.
  2. USE (2) 2X8 PERIMETER BEAMS
  3. ATTACH JOISTS TO PERIMETER BEAMS W/ SIMPSON LUS28
  4. ATTACH PERIMETER BEAMS TO CMU WALLS W/ (2) 1/4"X5" MASONRY SCREWS AT MAXIMUM 16" O.C.
  5. ATTACH PERIMETER BEAMS TO EACH STUD IN FRAME WALLS W/ (2) 1/4"X5" LAG SCREWS
  6. PROVIDE 3/4" CDX 4-PLY SHEATHING W/ 8D SHANK NAILS AT 6" O.C.

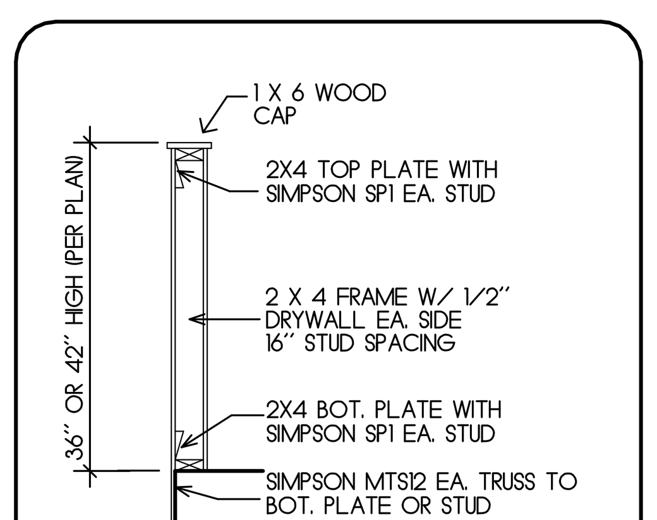
HANDRAILS NOTE:

HANDRAILS FOR STAIRWAYS SHALL BE CONTINUOUS FOR THE FULL LENGTH OF THE FLIGHT, FROM A POINT DIRECTLY ABOVE THE TOP NOSING EDGE OF THE FLIGHT TO A POINT DIRECTLY ABOVE THE LOWEST NOSING EDGE OF THE FLIGHT. HANDRAIL ENDS SHALL BE RETURNED OR SHALL TERMINATE IN NEWEL POST OR SAFETY TERMINALS. HANDRAILS ADJACENT TO A WALL SHALL HAVE A SPACE OF NOT LESS THAN 1 1/2 INCH BETWEEN THE WALL AND THE HANDRAIL. HANDRAIL TO BE CIRCULAR CROSS-SECTION DIA. AT LEAST 1 1/4", NO GREATER THEN 2".

GUARDRAIL NOTE:

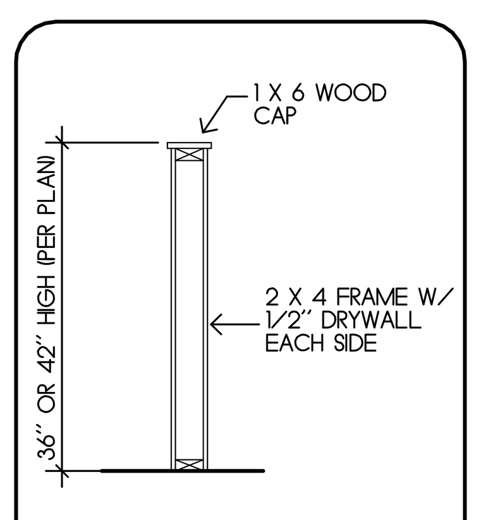
GUARD OPENING LIMITATION SHALL INTERMEDIATE RAILS OR ORNAMENTAL CLOSURES WHICH DO NOT ALLOW PASSAGE OF A SPHERE 4 INCHES OR MORE IN DIAMETER AND HAVE AT BOTTOM RAIL WHICH DOES NOT ALLOW PASSAGE OF A SPHERE 2" OR MORE IN DIAMETER TO PASS

BOTH GUARD AND HAND RAILS TO COMPLY WITH MIN. LIVE LOAD FROM TABLE R301.5 (LIVE LOAD 200)



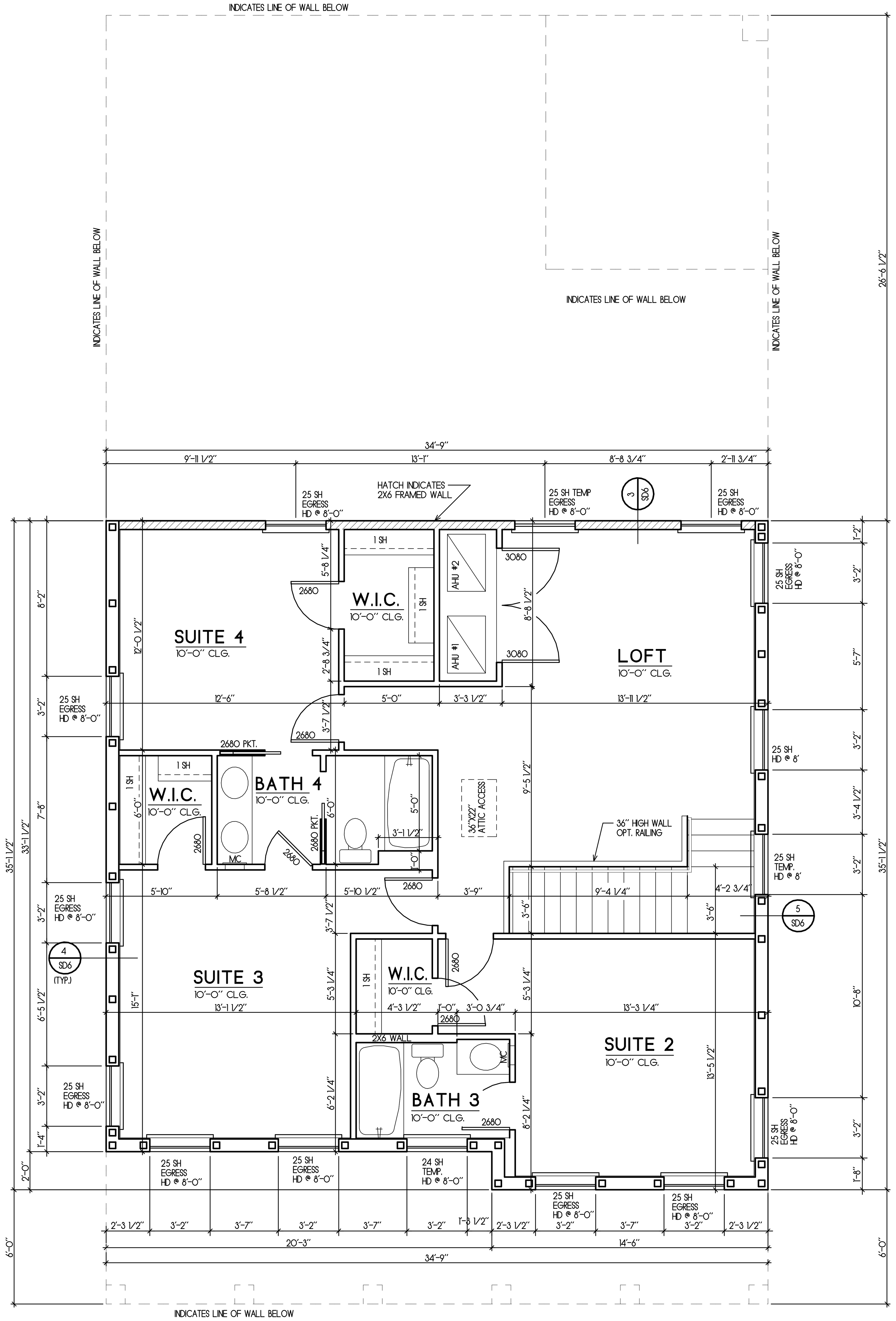
STAIRWAY LOW WALL DTL.

SCALE - 1/2" = 1'-0"



LOW WALL DETAIL

SCALE - 1/2" = 1'-0"



SECOND FLOOR PLAN

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

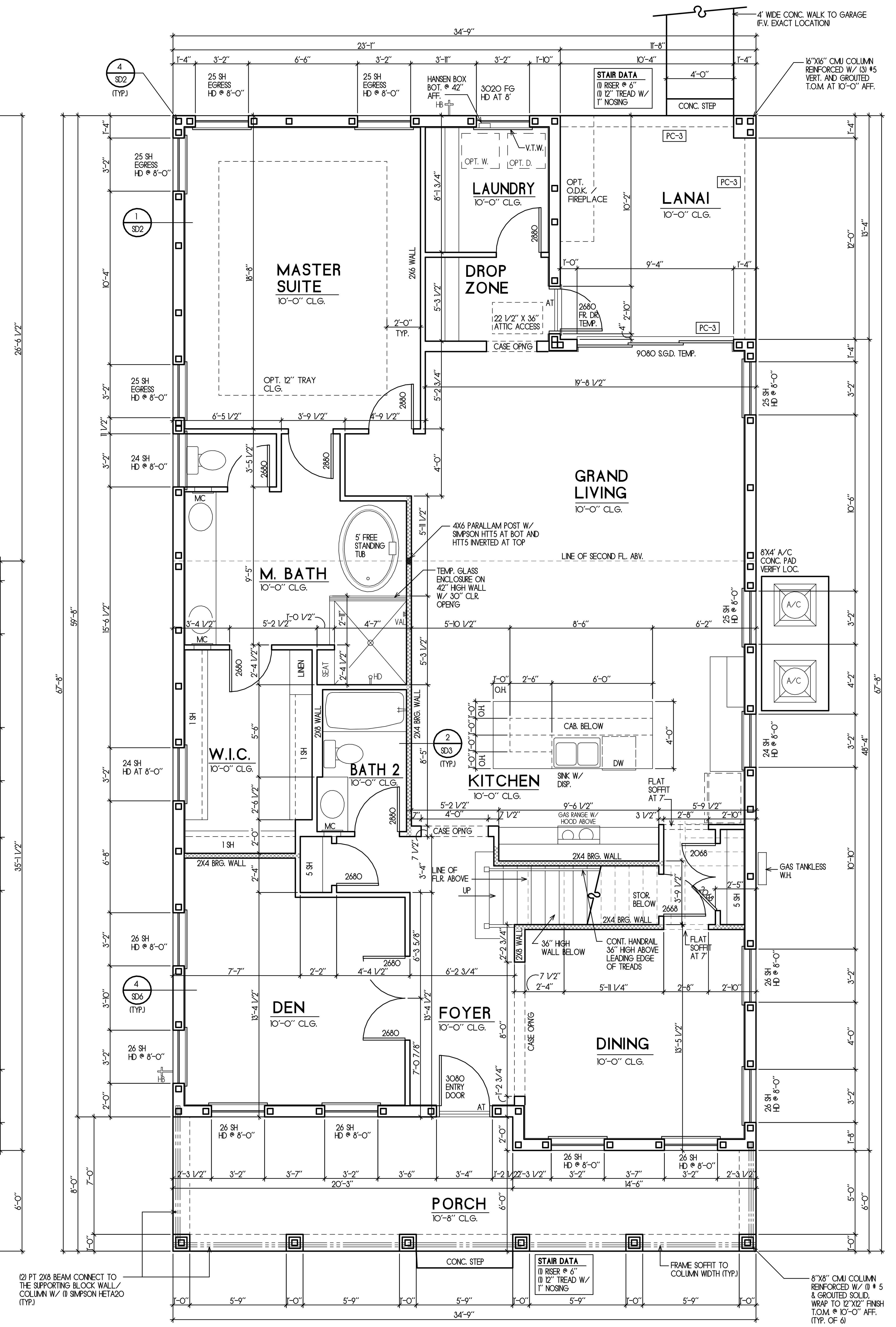
2ND FLOOR GENERAL NOTES:

- ALL EXTERIOR CMU. WALLS SHOWN ON PLANS AS 8" AND CONSTRUCTED AS SHEAR WALLS
- ALL INTERIOR WALLS TO BE 2X4 U.N.O. (SHOWN ON PLANS AS 3 1/2" AND DIMENSIONED TO ONE SIDE OF STUD
- ALL ANGLED WALLS TO BE 45° U.N.O.
- ALL HEADERS TO BE (2) 2X12 W/ 1/2" FLITCH PLATE U.N.O.

NOTE:
ALL EXTERIOR WALLS TO BE CONSTRUCTED AS SHEAR WALLS

GLAZING NOTE PER R308

EACH PANE SHALL BEAR THE MANUFACTURER'S LABEL DESIGNATING THE TYPE & THICKNESS OF GLASS OR GLAZING MATERIAL.
EACH PANE OF GLAZING INSTALLED IN HAZARDOUS LOCATION AS DEFINED IN SECTION R308.4 SHALL BE PROVIDE WITH A MANUFACTURER'S OR INSTALLER'S LABEL DESIGNATING THE TYPE OF GLASS AND SAFETY GLAZING STANDARD WITH WHICH IT COMPLIES, WHICH IS VISIBLE IN THE FINAL INSTALLATION.



FIRST FLOOR PLAN

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

HATCH INDICATES INT. BEARING WALL

GENERAL NOTES:

- ALL EXTERIOR CMU. WALLS SHOWN ON PLANS AS 8" AND CONSTRUCTED AS SHEAR WALLS
- ALL INTERIOR WALLS TO BE 2X4 U.N.O. (SHOWN ON PLANS AS 3 1/2" AND DIMENSIONED TO ONE SIDE OF STUD
- ALL ANGLED WALLS TO BE 90° OR 45°U.N.O.
- ALL EXTERIOR CEILINGS TO BE EXTERIOR GRADE 1/2" CL'G. BOARD (TYP. U.N.O.)

INSULATION NOTES

1. USE FOIL 4.1 AT MASONRY BLOCK WALLS.
2. USE R-11 INSULATION AT 2X4 EXTERIOR FRAME WALLS.
3. USE R-19 INSULATION AT 2X6 EXTERIOR FRAME WALLS.
4. USE R-19 INSULATION AT GARAGE CEILING
5. USE R-38 INSULATION AT ATTIC CEILING.

TERMITE PROTECTION:

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.

NOTE:
ALL EXTERIOR WALLS TO BE CONSTRUCTED AS SHEAR WALLS

NOTE:
ALL LINTELS TO BE PC3 (U.N.O.)

FILLED CELL NOTES

☐ INDICATES (1) #5 DOWEL TIED FROM FTG. TO LINTEL STEEL POUR CELL SOLID W/ CONC.

NOTE:
ALL BEDROOM WINDOWS TO MEET EMERGENCY EGRESS CODE

AREA SQ.FT.

FIRST FLOOR	1893
SECOND FLOOR	1122
LIVING	**3015**
LANAI	210
PORCH	249
TOTAL	**3474**

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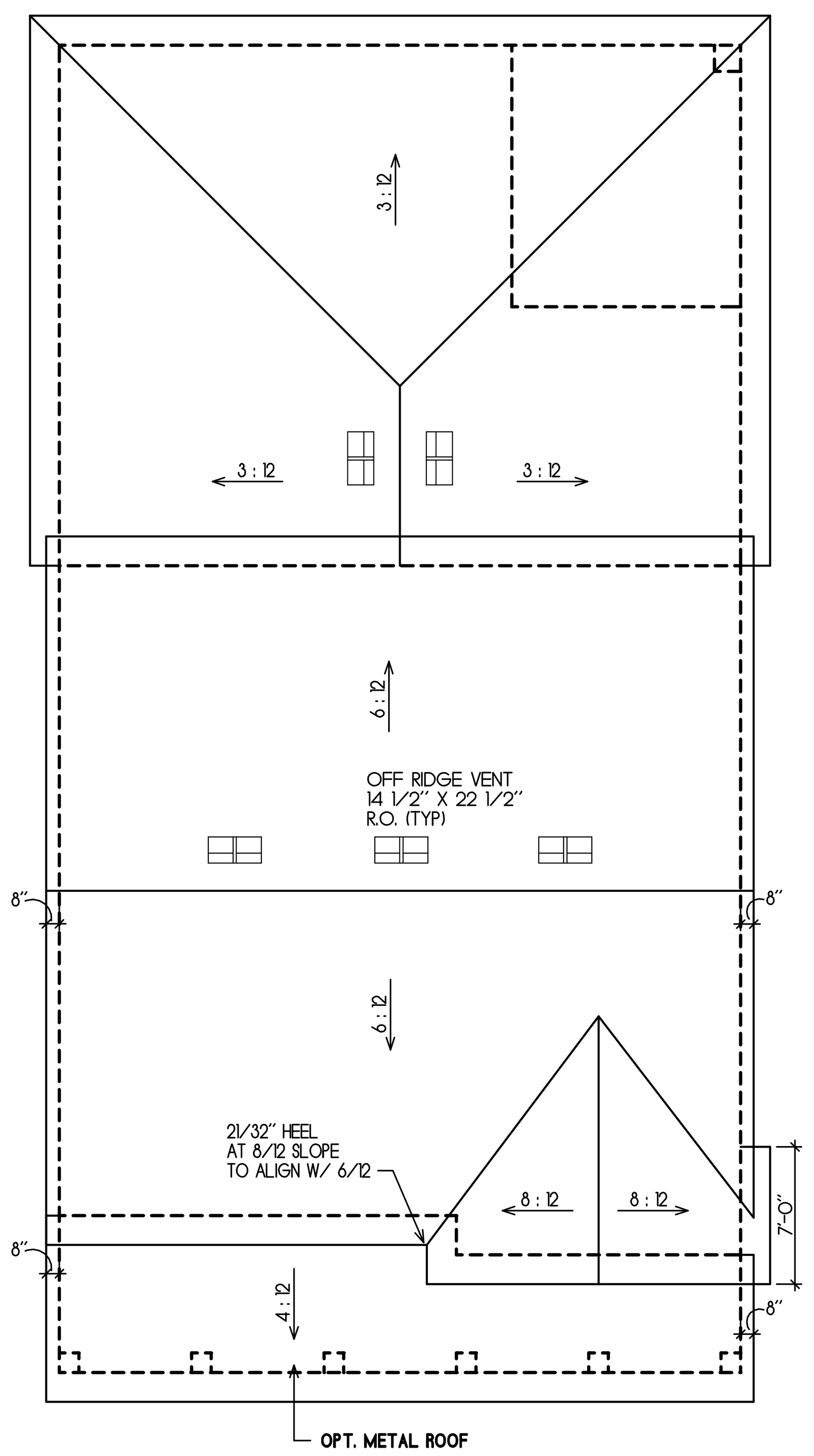


NOTE:
PRE-ENGINEERED WOOD TRUSSES AT 24" O.C. TYP. (U.N.O.)

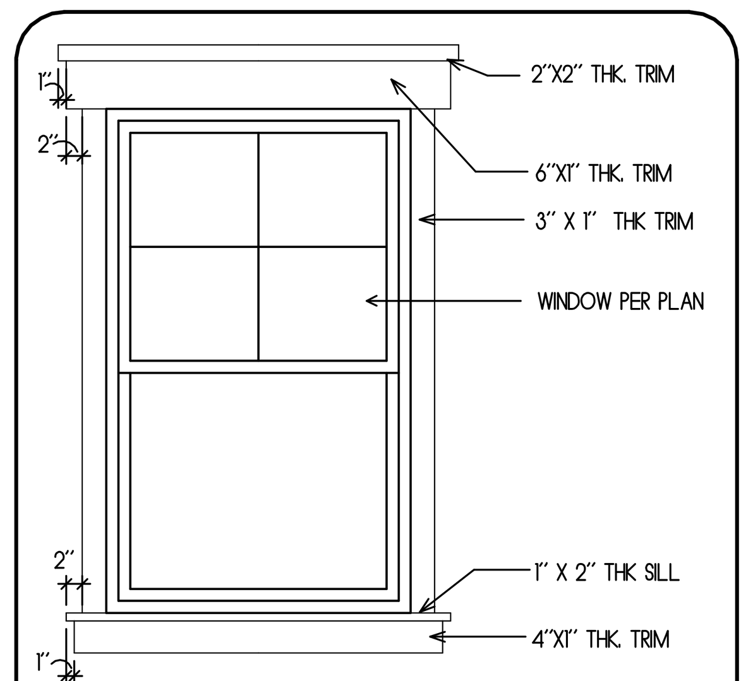
NOTE:
ROOF OVERHANGS TO BE 1'-6" TYP. U.N.O.

NOTE:
ROOF SHEATHING TO APA RATED EXPOSURE 1 SHEATHING - SEE ROOF SHEATHING SCHD. SHT. SD1

ROOF PLAN

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

ROOF VENT CALCULATIONS:					(LOMANCO 770D VENT (140 SQ IN))
FIRST FLOOR	SECOND FLOOR		FIRST FLOOR	SECOND FLOOR	
922	1180	/ 300	3.07	3.93	NFA TOTAL
3.07	3.93	/ 2	1.53	1.96	NFA INTAKE / NFA EXHAUST
1.53	1.96	X 144	221.28	283.2	SQ. IN. VENTING REQ.
221.28	283.2	/140	1.58	2.02	VENTS REQ
			2	3	INSTALLED VENTS



TYP. CASING DETAIL

SCALE - 1/2" = 1'-0"

FRONT ELEVATION TRADITIONAL

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

STUCCO ON FRAMED WALL NOTE:
EXTERIOR FINISH CONSISTING OF CEMENTIOUS FINISH AS PER ASTM C926 OVER METAL LATH BACKED WITH 15# FELT OVER "FORTIFIBER" OR "TYVEK" HOUSE WRAP.

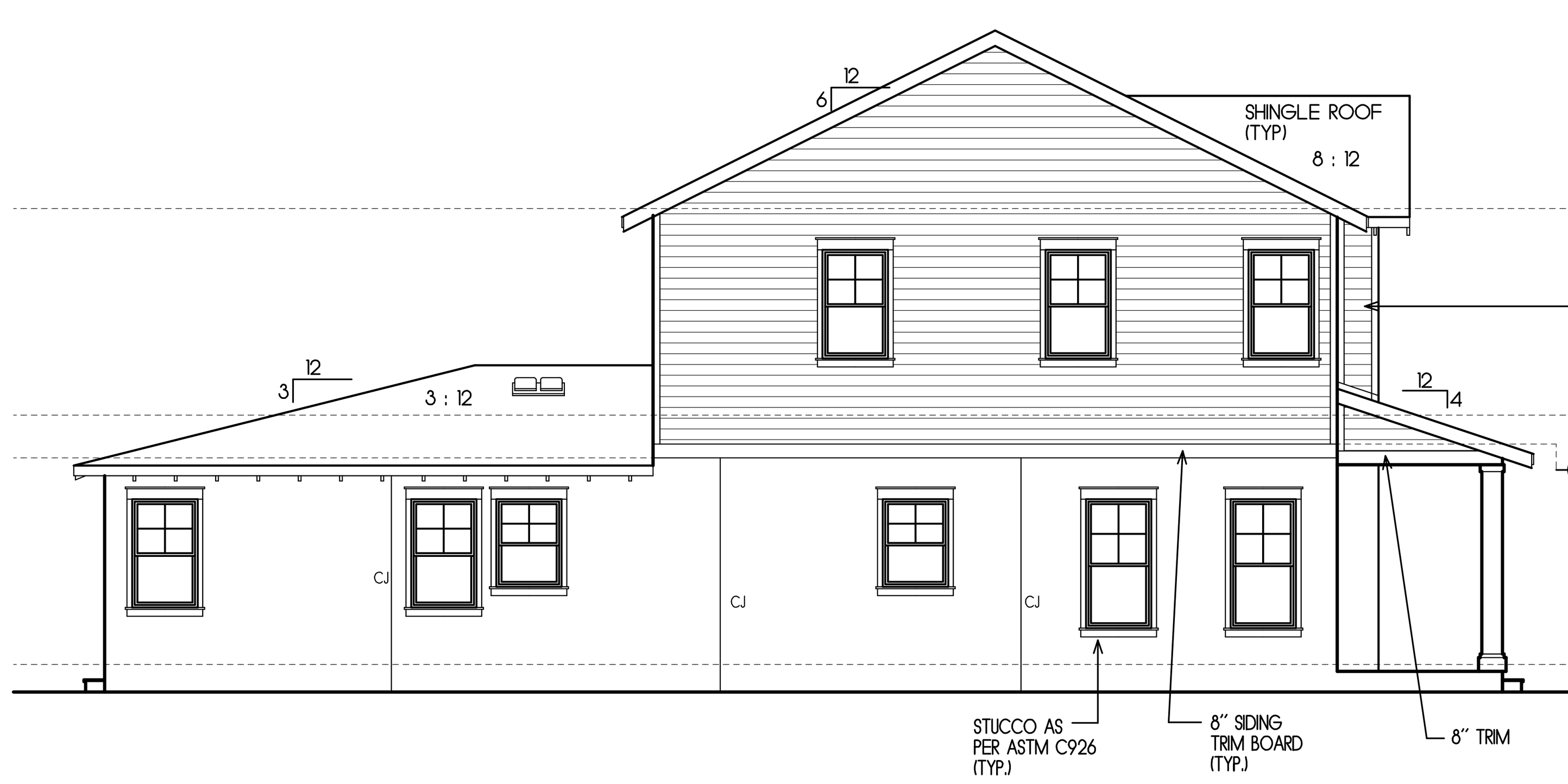
STUCCO ON MASONRY WALL NOTE:
ALL STUCCO FINISH SHALL BE APPLIED AS PER ASTM C926 AND CONTROL JOINTS PROVIDED AS PER ASTM C1063. CURING TIME AS PER SECTION R704.6.5 OF THE FLORIDA BUILDING CODE 7TH EDITION (2020) 1/2" THICK MIN.

C.J. - INDICATES CONTROL JOINTS IN STUCCO FINISH

BANDING NOTE:
RETURN BANDING BY 2'-0" AT SIDES (TYP. U.N.O.) COLUMNS WILL HAVE BANDING ON ALL SIDES (WHEN APPLICABLE)

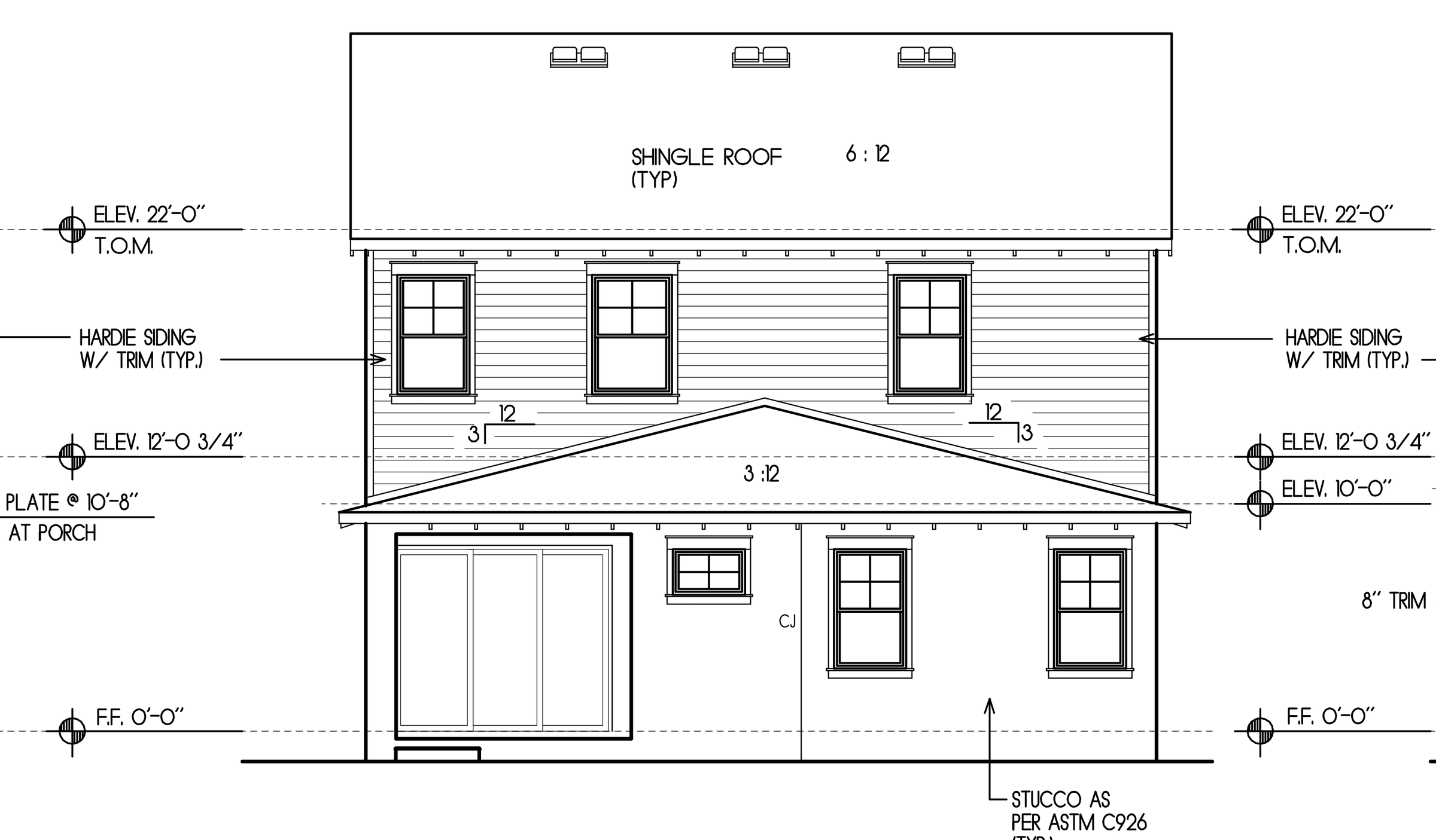
NOTE:
CONTINUOUS FLASHING AT ROOF AND WALL INTERSECTIONS (TYP.)

NOTE:
PROVIDE EXPOSED 2X8 RAFTER TAILS CUT PLUMB - SPACING CAN RANGE FROM 16" TO 20" O.C.



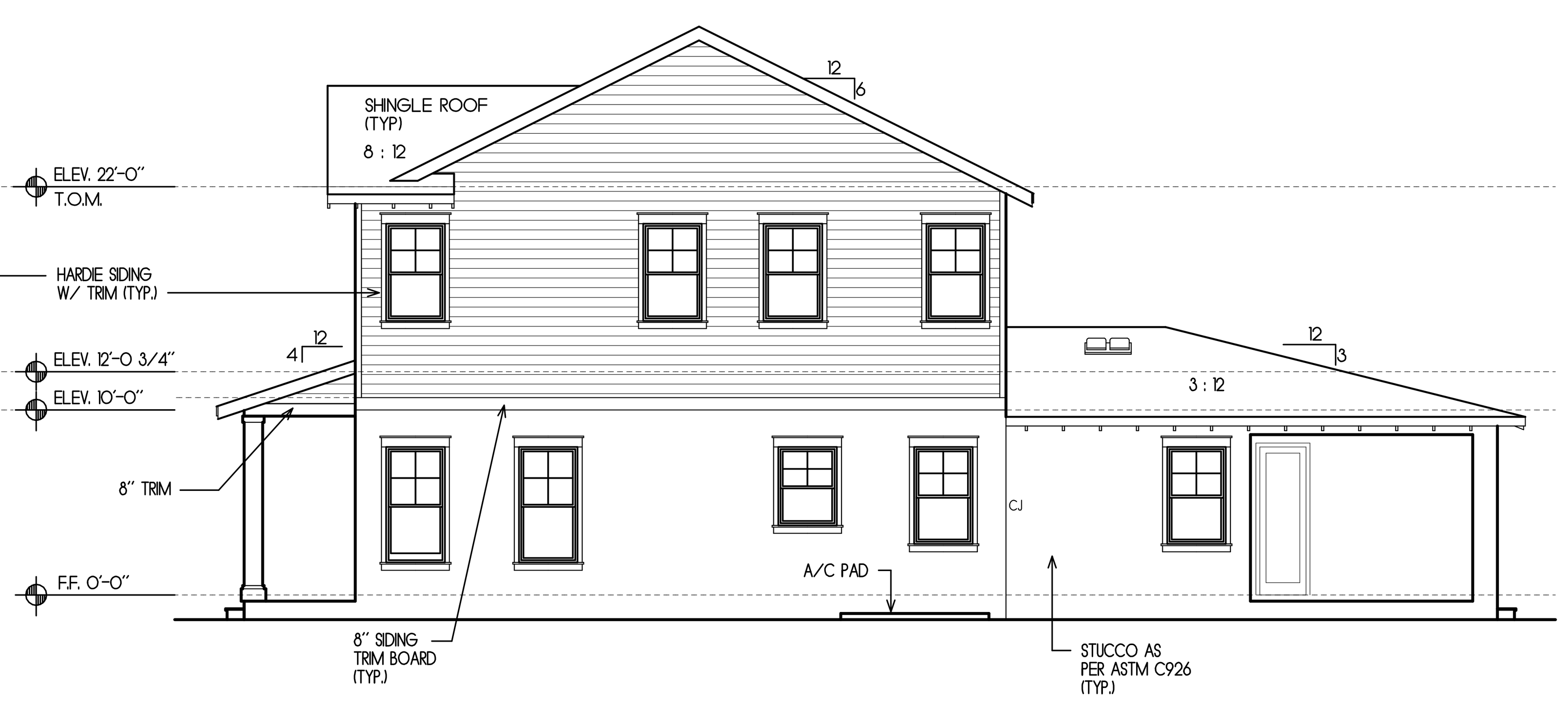
LEFT SIDE ELEVATION TRADITIONAL

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



REAR ELEVATION TRADITIONAL

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



RIGHT SIDE ELEVATION TRADITIONAL

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

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TRUSS CONNECTOR NOTES:

- TYPICAL TRUSS CONNECTORS:

* TO MASONRY WALLS: SIMPSON HETA20.
* TO FRAME WALLS: SIMPSON H10A OR MTS16.

- TYPICAL GIRDER TRUSS CONNECTORS:

* TO MASONRY WALLS: DOUBLE SIMPSON HETA20.
* TO FRAME WALLS:

  a. SIMPSON (2) HTS30 OVER (3) PLY 2X_ STUD COLUMN W/ SIMPSON HTT5 @ BOTTOM TO MASONRY WALL BELOW.

  b. SIMPSON (2) HTS30 OVER (3) PLY 2X_ STUD COLUMN W/ SIMPSON MSTI48 @ BOTTOM TO GIRDER TRUSS OR WOOD BEAM BELOW.

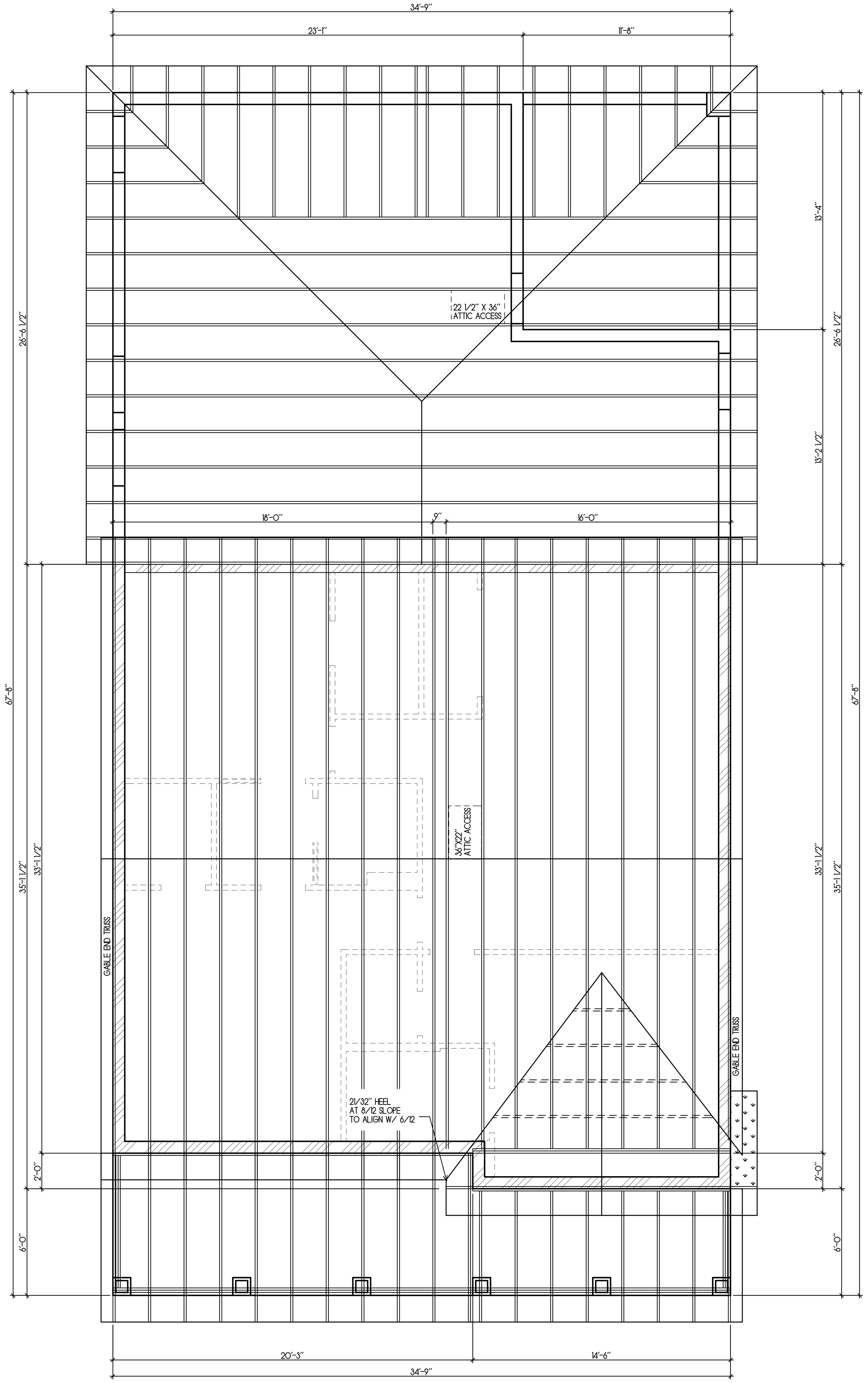
- THE PREVIOUS CONNECTORS APPLY UNLESS OTHERWISE NOTED.
- SEE FLOOR PLAN, FOUNDATION PLAN AND SECTIONS FOR OTHER CONNECTORS.
- ROOF TRUSS LAYOUT TO BE DEVELOPED BY TRUSS MANUFACTURER.
- THE ENGINEER RESERVES THE RIGHT TO MAKE ANY CHANGES AFTER TRUSS INFORMATION IS SUPPLIED TO THE ENGINEER.

NOTE:
ROOF SLOPES TO BE 6:12 FRONT TO REAR 8:12 AT GABLE W/ 2 21/32" HEEL TO ALING FASCIA

NOTE:
ROOF OVERHANGS TO BE 1'-6" TYP. U.N.O.

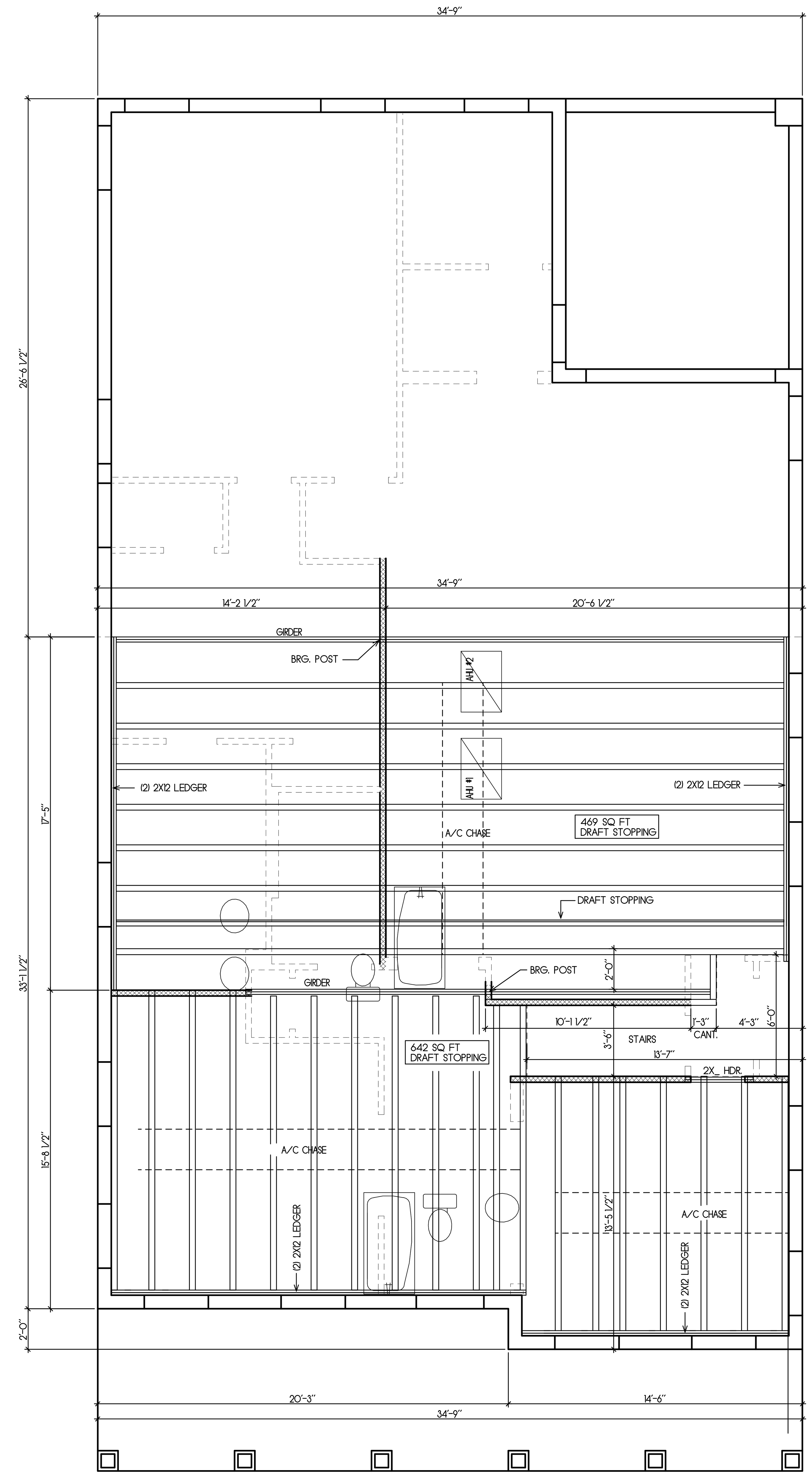
NOTE:
PRE-ENGINEERED WOOD TRUSSES AT 24" O.C. TYP. (U.N.O.)

NOTE:
ROOF SHEATHING TO APA RATED EXPOSURE 1 SHEATHING - SEE ROOF SHEATHING SCHD. SHT. SD1



LOWER & UPPER ROOF FRAMING PLAN

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



SECOND FLOOR FRAMING PLAN

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

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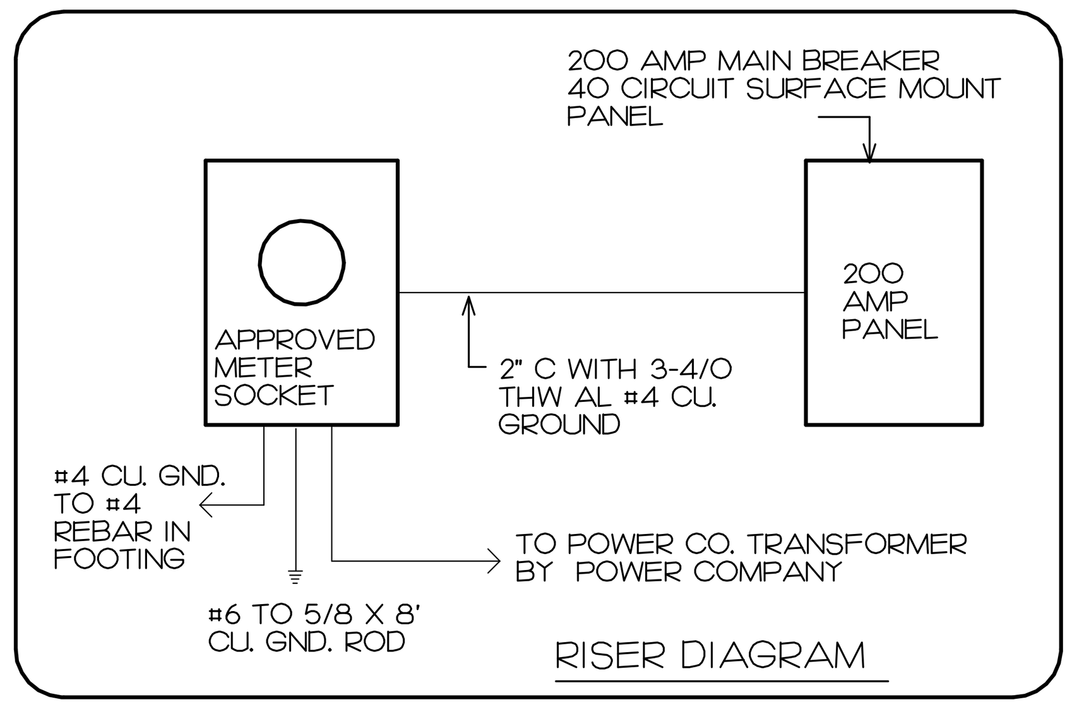


RISER DIAGRAM

ELECTRICAL LEGEND

- DUPLEX OUTLET (110V AT 10")
- GA ABV. COUNTER
- SPLIT DUPL. OUTLET (110V AT 10") TOP PLUG IS 'HOT'
- WEATHERPROOF DUPL. OUTLET (110V AT 12")
- 220V OUTLET
- SPECIAL PURPOSE CONNECTION
- TELEPHONE OUTLET AT 10"
- TELEVISION OUTLET AT 10"
- SWITCH AT 36"
- 3-WAY SWITCH AT 36"
- 4-WAY SWITCH AT 36"
- DIMMER SWITCH AT 36"
- DOORBELL PUSH BUTTON
- CEILING MOUNT LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- CEILING FAN PRE-WIRE
- SMOKE DETECTOR
- CARBON MONOXIDE DETECTOR
- FLUORESCENT LIGHT
- FLUORESCENT WRAP FIXTURE
- EXHAUST FAN / LIGHT FIXTURE COMBO
- EXHAUST FAN
- FLOOD LIGHT
- INTERCOM SPEAKER AT 5'-0"
- CEILING MOUNTED SPEAKER
- CHIMES
- VACUUM OUTLET AT 10"
- A/C REGISTER
- THERMOSTAT
- SECURITY PAD
- DOOR JAMB

ALIGN SPEAKER WITH EDGE OF SWITCH

NOTE:
ALL HEIGHTS ARE TO CENTERLINE ABOVE FIN. FLOOR

GENERAL NOTES

- ALL ELECTRIC TO CONFORM WITH NATIONAL ELECTRICAL CODE (2017) AND LOCAL ELECTRIC CODES
- ALL OUTLETS ON EXT. OF HOME TO BE W.P. GFI'S
- ALL BEDROOM OUTLETS WILL BE ON ARC FAULT CIRCUIT INTERRUPT PER NEC 2017 210.12

NOTE:

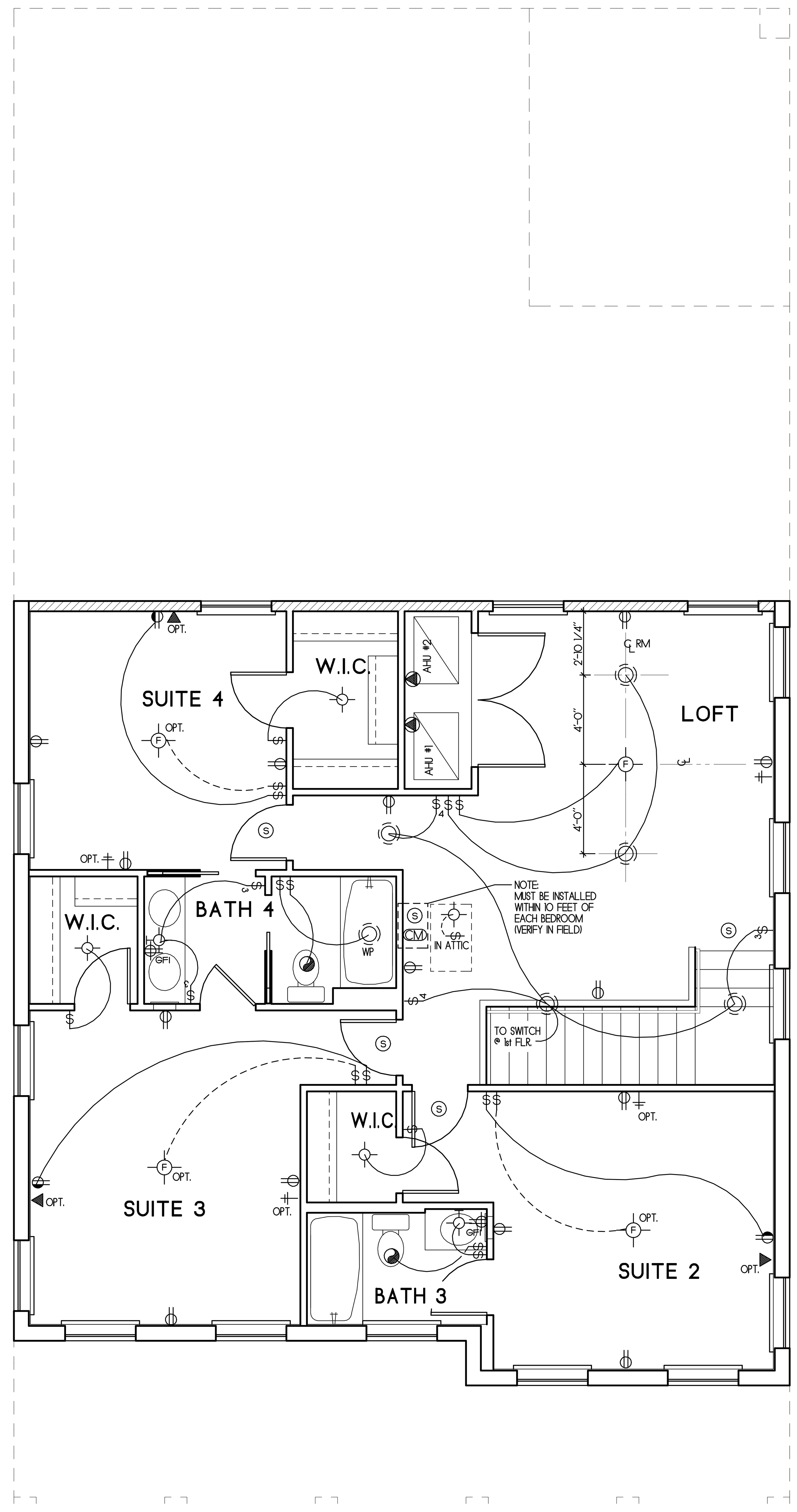
ALL 15 AND 20 AMP CIRCUITS INSTALLED IN DWELLING UNITS FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, REC ROOMS, CLOSETS, HALLWAYS, OR SIM. AREAS SHALL BE PROTECTED BY A LISTED AFC INTERRUPTER, COMBINATION - TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT PER NEC 2017 210.12

NOTE:

PHONE JACKS, TV OUTLETS AND CEILING FANS ARE OPTIONAL IN SECONDARY BEDROOMS

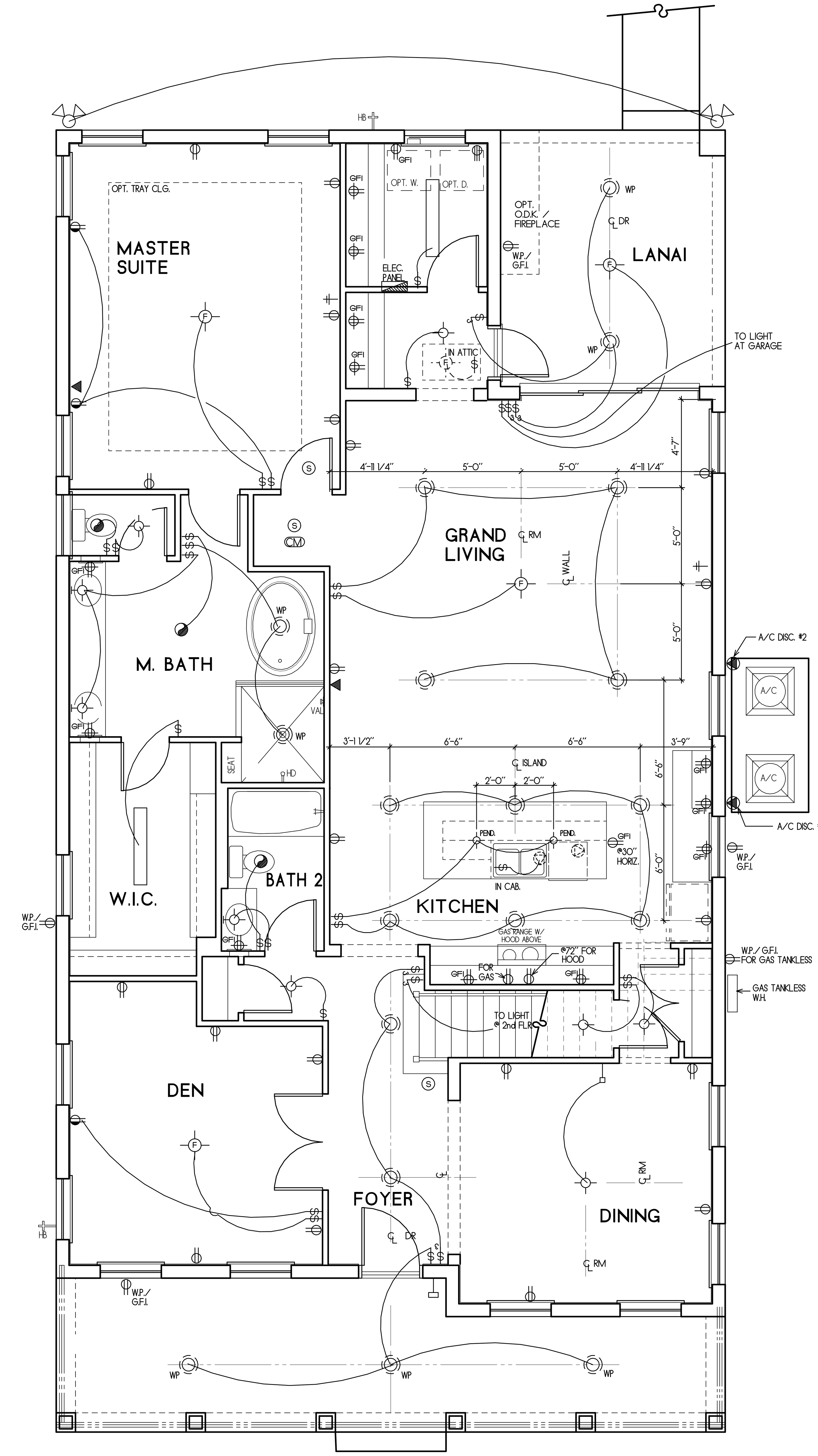
SMOKE DETECTOR NOTE:

SMOKE DETECTOR INSTALLED WITHIN 10 FEET OF EACH BEDROOM AND TO BE INTERCONNECTED W/ BATTERY BACK-UP



SECOND FLOOR ELECTRICAL PLAN

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



FIRST FLOOR ELECTRICAL PLAN

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

INTEGRAL ENGINEERING INC.

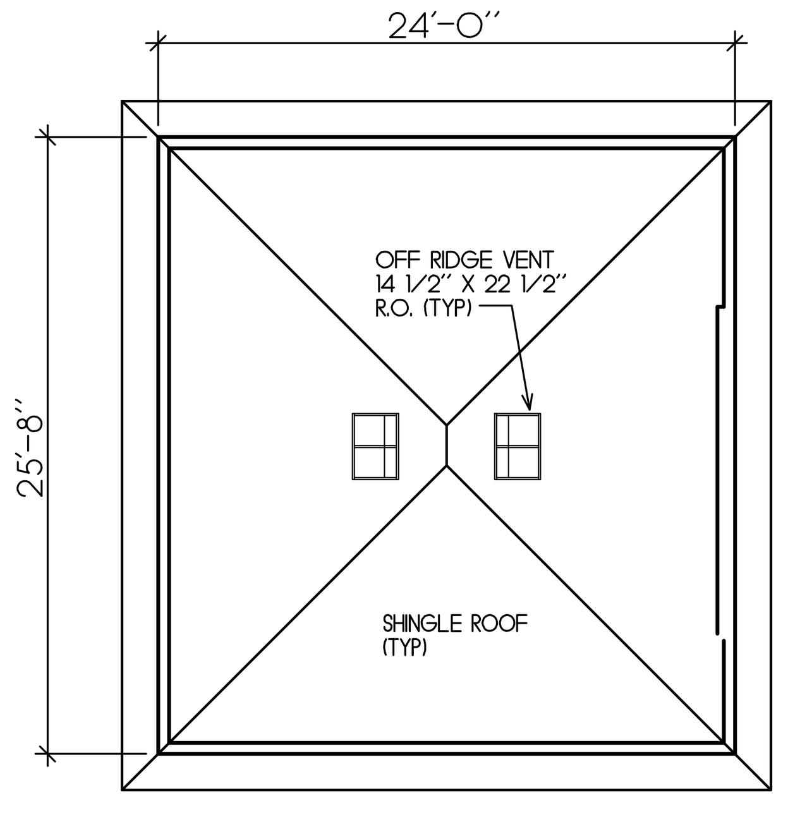
RADD
Residential Design & Drafting
122 Indiana Ave
Palm Harbor, FL 34683
727-442-3763
www.RADDinc.com

01-08-21	FP
03-10-21	FP
04-29-21	GAM
06-06-22	GAM
09-06-22	SS
10-05-22	GAM

MOBLEY HOMES CUSTOM

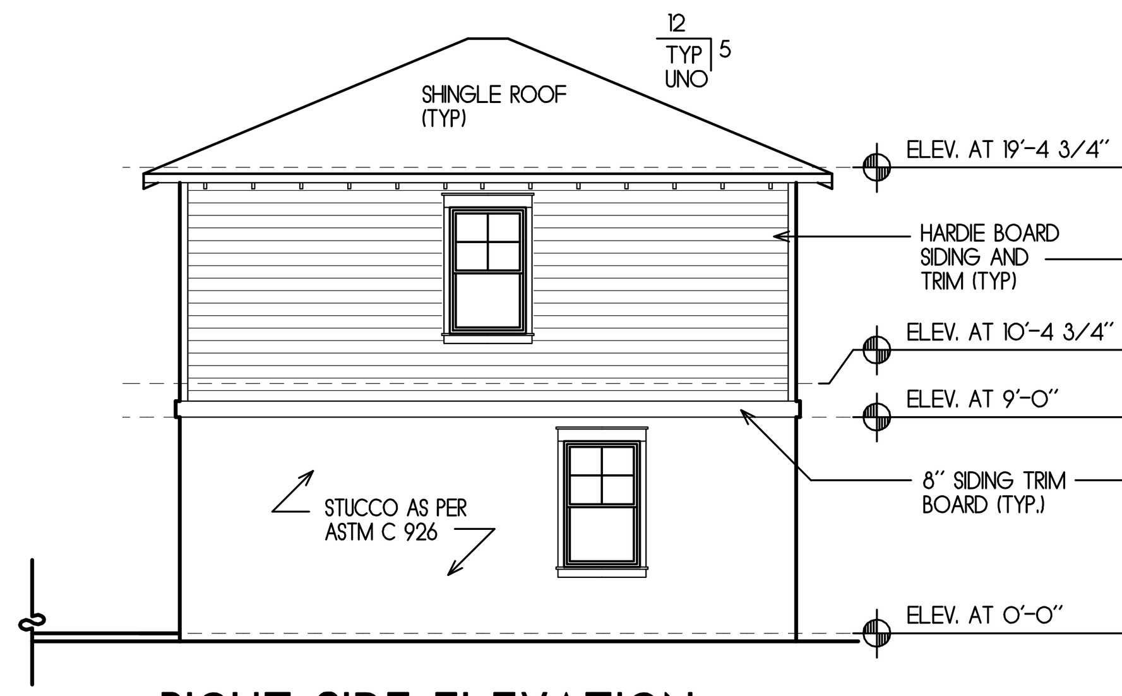
109 13th Ave North - St. Petersburg, FL 33701

4



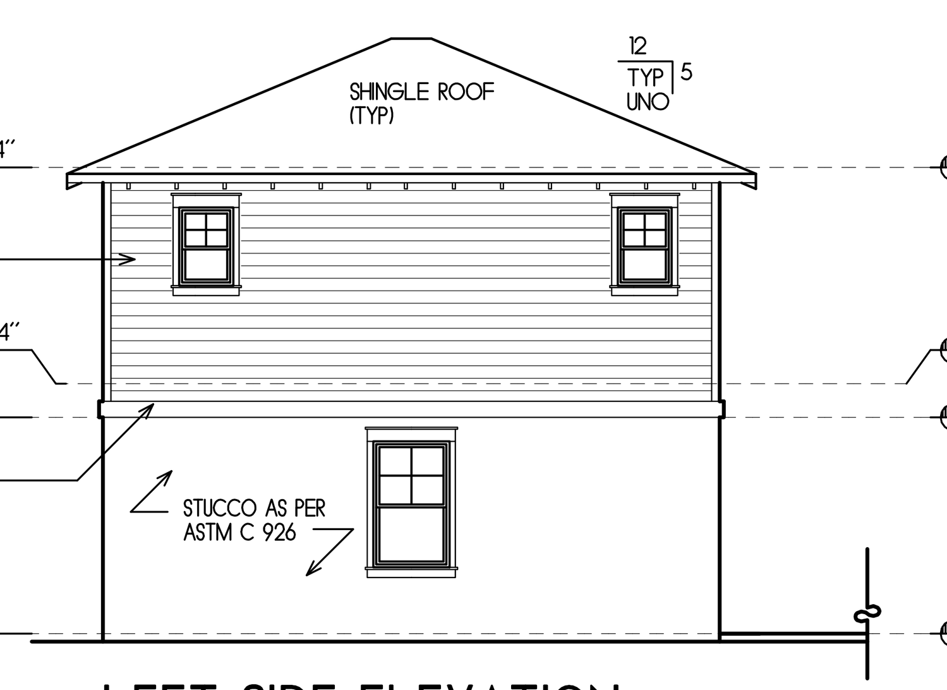
ROOF PLAN

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



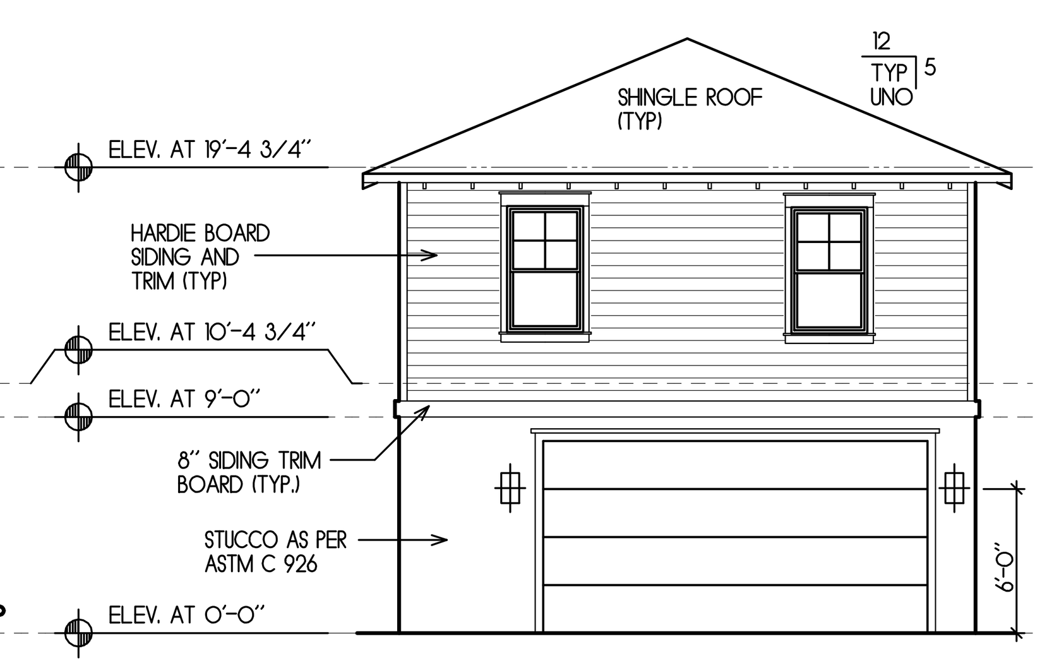
RIGHT SIDE ELEVATION

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



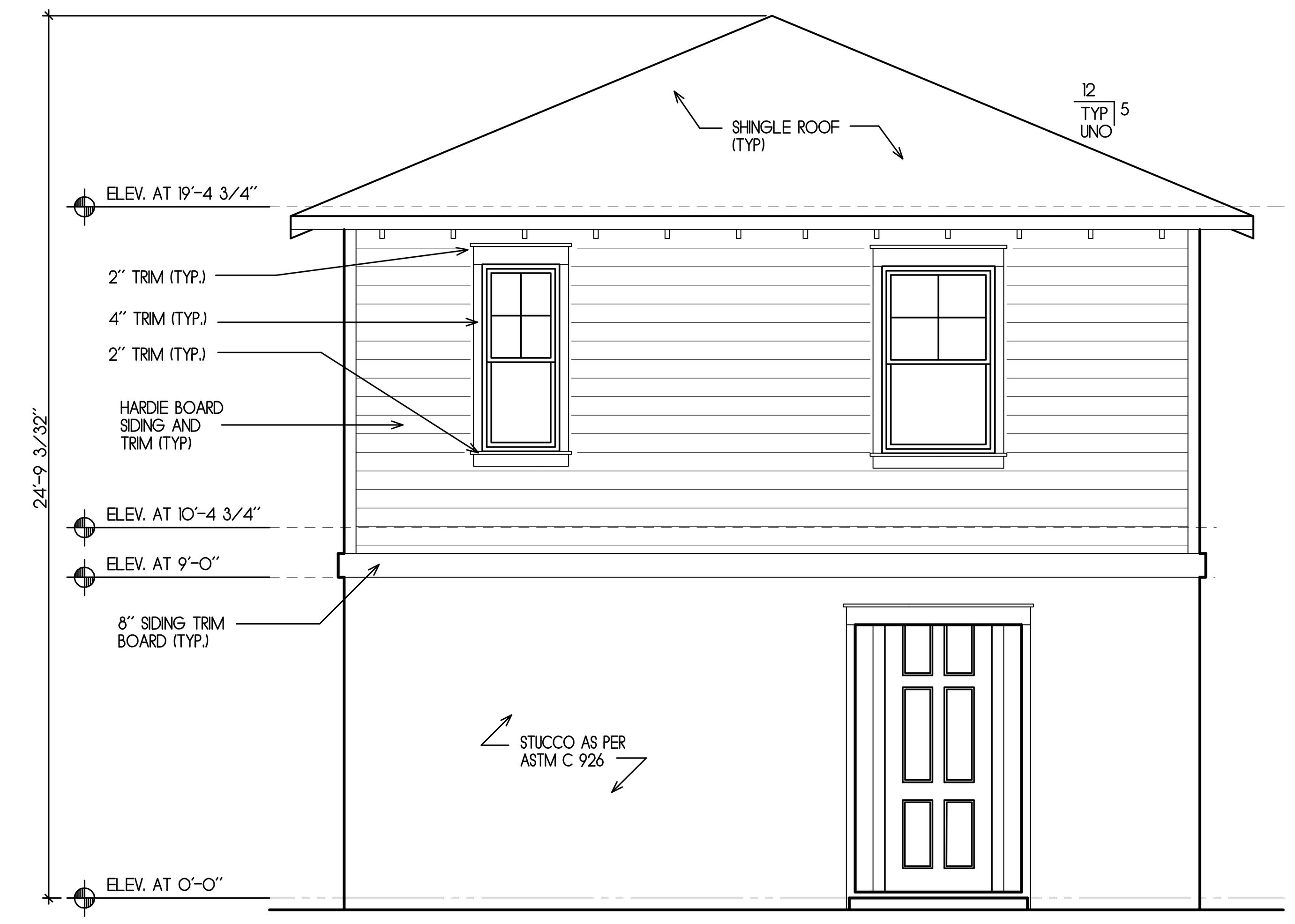
LEFT SIDE ELEVATION

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



REAR ELEVATION

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



FRONT ELEVATION

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

NOTE: ROOF SLOPES TO BE 5:12 TYP. (U.N.O.)

NOTE: ROOF OVERHANGS TO BE 1'-6" TYP. U.N.O.

NOTE: SHEATHING FOR ROOF & WALL TO BE APA RATED (EXPOSURE 1) SHEATHING W/ EXTERIOR GLUE. SEE SHEATHING THICKNESS SCHEDULE SHEET SD1.

ROOF VENT CALCULATIONS	(LOMANCO 770D VENT (140 SQ IN) FL 4103-R6)				
FIRST FLOOR	SECOND FLOOR		FIRST FLOOR	SECOND FLOOR	
0	616	/ 300 =	0	2.05	NFA TOTAL
0	2.05	/ 2 =	0	1.03	NFA INTAKE / NFA EXHAUST
0	1.03	X 144 =	0	147.84	SQ. IN. VENTING REQ.
0	147.84	/140 =	0	1.06	VENTS REQ
			0	2	INSTALLED VENTS

TABLE R905.1.1
UNDERLAYMENT TABLE

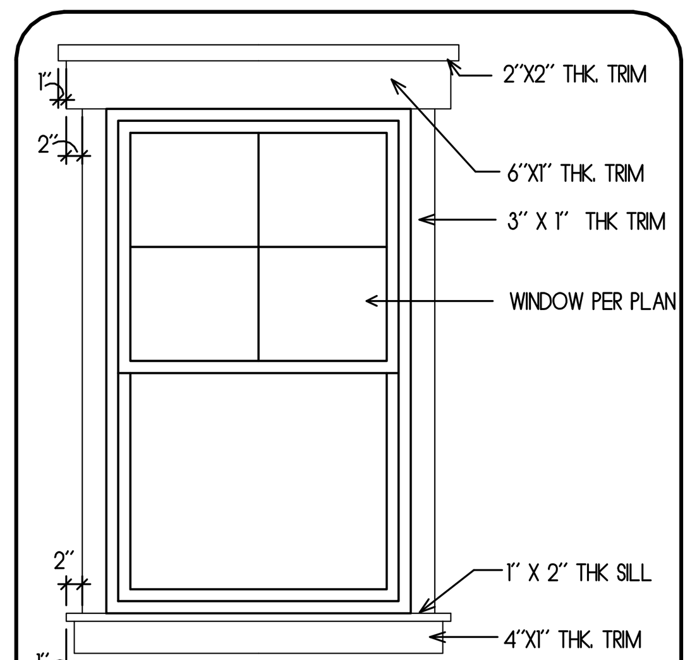
Roof Covering Section	Roof Slope 2:12 and Less Than 4:12 Underlayment	Underlayment Attachments	Roof Slope 4:12 and Greater Underlayment	Underlayment Attachments
Asphalt shingles R905.2	ASTM D226 Type I or II ASTM D4869 Type II, III or IV ASTM D6757	1	ASTM D226 Type II ASTM D4869 Type IV ASTM D6757	2
	ASTM D1970	3	ASTM D1970	3
Concrete and Clay Tile R905.3	See Section R905.3.3			
Metal roof shingles R905.4	ASTM D226 Type I or II ASTM D4869 Type II, III or IV ASTM D6757	1	ASTM D226 Type II ASTM D4869 Type IV	2
	ASTM D1970	3	ASTM D1970	3
Mineral-surfaced roll roofing R905.5	ASTM D226 Type I or II ASTM D4869 Type II, III or IV ASTM D6757	1	ASTM D226 Type II ASTM D4869 Type IV	2
	ASTM D1970	3	ASTM D1970	3
Slate and slate-type shingles R905.6	ASTM D226 Type I or II ASTM D4869 Type II, III or IV ASTM D6757	1	ASTM D4869 Type IV ASTM D226 Type II	2
	ASTM D1970	3	ASTM D1970	3
Wood shingles R905.7	ASTM D226 Type I or II ASTM D4869 Type II, III or IV	1	ASTM D226 Type II ASTM D4869 Type IV	2
Wood shakes R905.8		Limited to roof slopes 4:12 and Greater	ASTM D226 Type II ASTM D4869 Type IV	2
Metal roof panels R905.10	ASTM D226 Type I or II ASTM D4869 Type II, III or IV ASTM D6757	1	ASTM D226 Type II ASTM D4869 Type IV	2
	ASTM D1970	3	ASTM D1970	3
Photovoltaic Shingles R905.17	ASTM D226 Type I or II ASTM D4869 Type II, III or IV ASTM D6757	1	ASTM D226 Type II ASTM D4869 Type IV ASTM D6757	2
	ASTM D1970	3	ASTM D1970	3

R905.1.1Underlayment.
Unless otherwise noted underlayment for asphalt shingles, metal roof shingles, mineral-surfaced roll roofing, slate and slate-type shingles, wood shingles, wood shakes and metal roof panels shall conform to the applicable standards listed in this chapter. Underlayment materials required to comply with ASTM D226, D1970, D4869 and D6757 shall bear a label indicating compliance to the standard designation and, if applicable, type classification indicated in Table R905.1.1. Underlayment shall be applied and attached in accordance with Table R905.1.1.

Exception: A reinforced synthetic underlayment that is approved as an alternate to underlayment complying with ASTM D226 Type II and having a minimum tear strength in accordance with ASTM D1970 or ASTM D4533 of 20 pounds shall be permitted. This underlayment shall be installed and attached in accordance with the underlayment attachment methods of Table R905.1.1 for the applicable roof covering and slope, except metal cap nails shall be required where the ultimate design wind speed, Vult, equals or exceeds 150.

R704.2.1 Vinyl Soffit Panels

Vinyl soffit panels shall be installed using fasteners specified by the manufacturer and shall be fastened at both ends to a supporting component such as a nailing strip, fascia or subfascia component in accordance with Figure R704.2.1. Where the unsupported span of soffit panels is greater than 12 inches, intermediate nailing strips shall be provided in accordance with Figure R704.2.2 unless a larger span is permitted in accordance with the manufacturer's product approval specification. Vinyl soffit panels shall be installed in accordance with the manufacturer's product approval specification and limitations of use. Fascia covers shall be installed in accordance with the manufacturer's product approval specification and limitations of use.

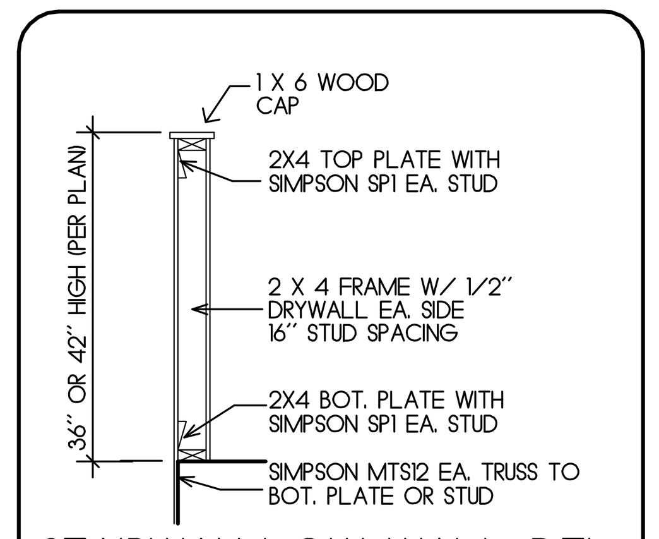


TYP. CASING DETAIL

SCALE - 1/2" = 1'-0"

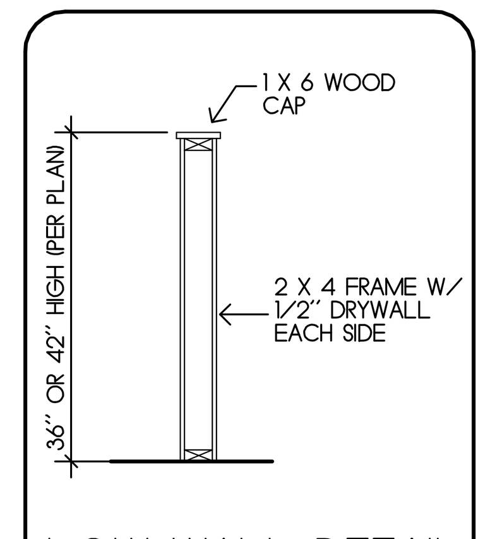
TRUSS CONNECTOR NOTES:

- TYPICAL TRUSS CONNECTORS:
  * TO MASONRY WALLS: SIMPSON HETA20.
  * TO FRAME WALLS: SIMPSON H10A OR MTS16.
- TYPICAL GIRDER TRUSS CONNECTORS:
  * TO MASONRY WALLS: DOUBLE SIMPSON HETA20.
  * TO FRAME WALLS:
    a. SIMPSON (2) HTS30 OVER (3) PLY 2X_ STUD COLUMN W/ SIMPSON HTT5 @ BOTTOM TO MASONRY WALL BELOW.
    b. SIMPSON (2) HTS30 OVER (3) PLY 2X_ STUD COLUMN W/ SIMPSON MST148 @ BOTTOM TO GIRDER TRUSS OR WOOD BEAM BELOW.
- THE PREVIOUS CONNECTORS APPLY UNLESS OTHERWISE NOTED.
- SEE FLOOR PLAN, FOUNDATION PLAN AND SECTIONS FOR OTHER CONNECTORS.
- ROOF TRUSS LAYOUT TO BE DEVELOPED BY TRUSS MANUFACTURER.
- THE ENGINEER RESERVES THE RIGHT TO MAKE ANY CHANGES AFTER TRUSS INFORMATION IS SUPPLIED TO THE ENGINEER.



STAIRWAY LOW WALL DTL.

SCALE - 1/2" = 1'-0"



LOW WALL DETAIL

SCALE - 1/2" = 1'-0"

NOTE:
ALL EXTERIOR WALLS TO BE CONSTRUCTED AS SHEARWALLS

☐ INDICATES (1) #5 DOWEL TIED FROM FTG. TO LINTEL STEEL POUR CELL SOLID W/ CONC.

NOTE:
OPENINGS BETWEEN THE GARAGE AND RESIDENCE SHALL BE EQUIPPED WITH SOLID WOOD DOORS NOT LESS THAN 1 3/8" IN THICKNESS, SOLID OR HONEYCOMB STEEL DOORS NOT LESS THAN 1 3/8" THICK OR 20 MINUTE FIRE-RATED DOORS AND BE SELF CLOSING

THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN 1/2" GYPSUM BOARD APPLIED TO THE GARAGE SIDE. GARAGE BENEATH HABITABLE ROOMS SHALL BE SEPARATED FROM ALL ROOMS ABOVE BY NOT LESS THAN 5/8" TYPE "X" GYPSUM BOARD OR EQUIVALENT.

INSULATION NOTES

1. USE FOIL 4.1 AT MASONRY BLOCK WALLS.
2. USE R-11 INSULATION AT 2X4 EXTERIOR FRAME WALLS.
3. USE R-19 INSULATION AT 2X6 EXTERIOR FRAME WALLS.
4. USE R-19 INSULATION AT GARAGE CEILING
5. USE R-38 INSULATION AT ATTIC CEILING.

NOTE:
ALL LINTELS TO BE PC3 (U.N.O.)

EXTERIOR FRAMED WALL FINISH NOTE:

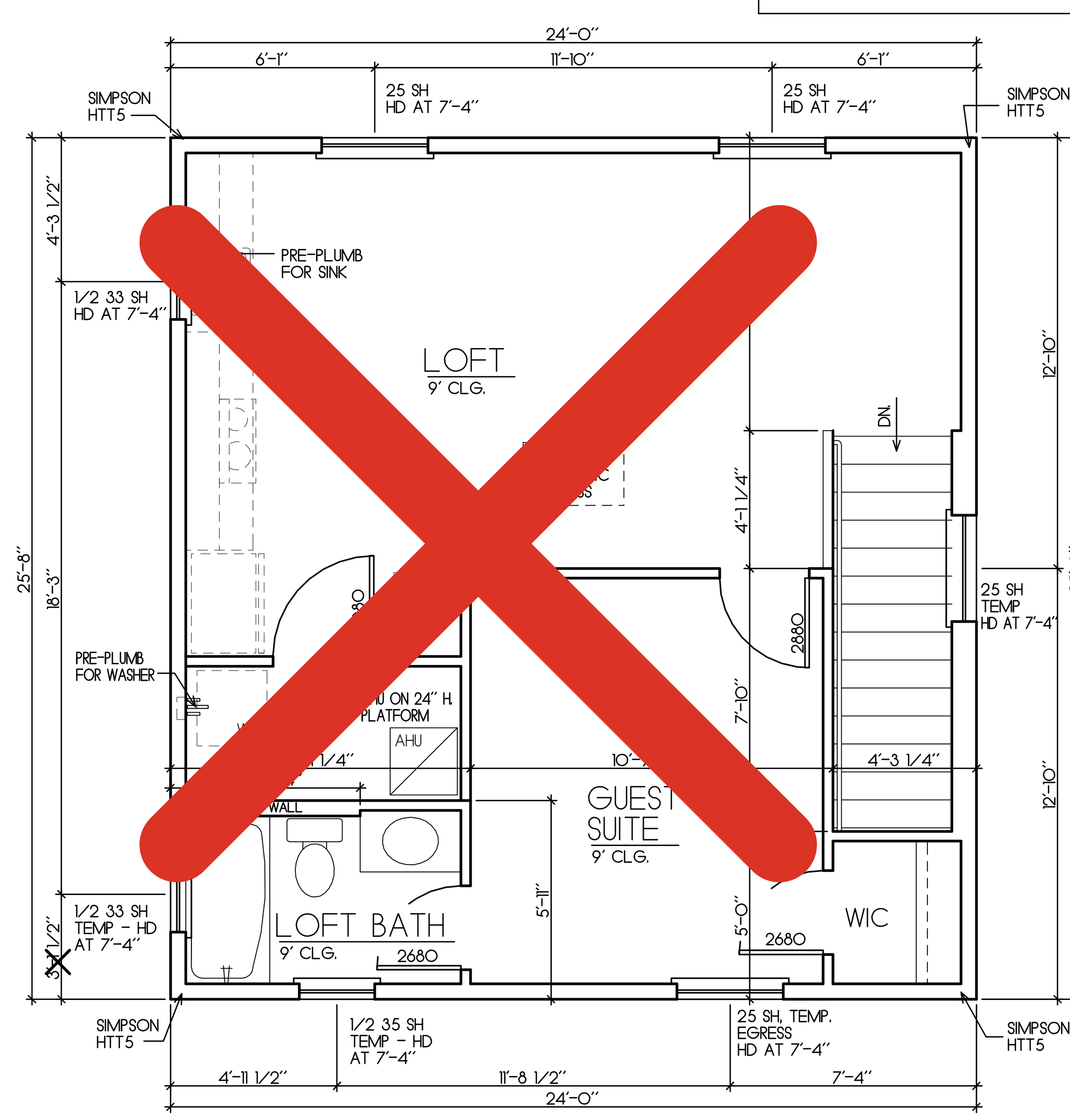
EXTERIOR FINISH CONSISTING OF CEMENTITIOUS FINISH AS PER ASTM C926 OVER METAL LATH BACKED WITH 15# FELT OVER "FORTI FIBER" OR "TYVEK" HOUSE WRAP.

TERMITE PROTECTION:

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.

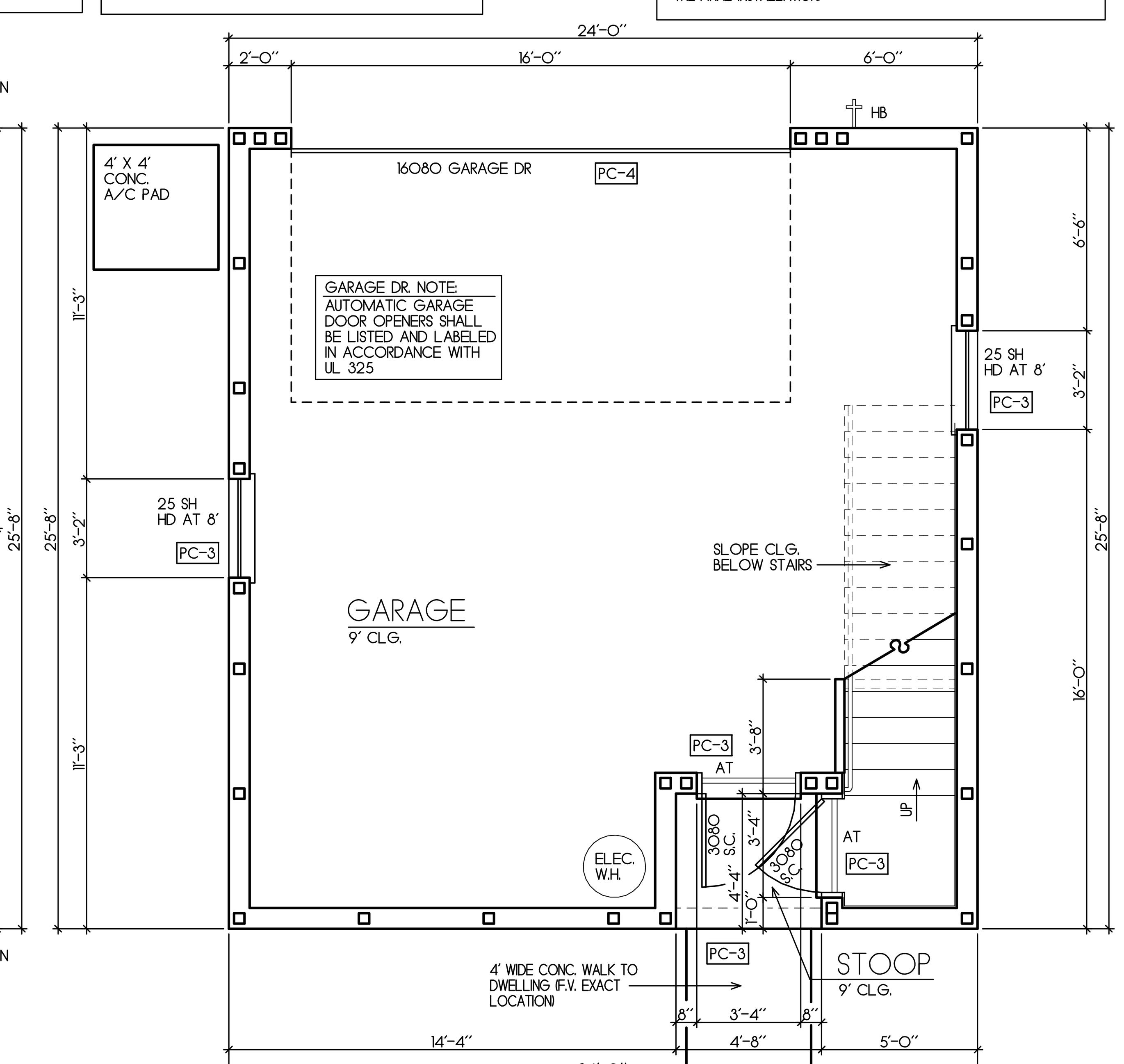
GLAZING NOTE PER R308

EACH PANE SHALL BEAR THE MANUFACTURER'S LABEL DESIGNATING THE TYPE & THICKNESS OF GLASS OR GLAZING MATERIAL.
EACH PANE OF GLAZING INSTALLED IN HAZARDOUS LOCATION AS DEFINED IN SECTION R308.4 SHALL BE PROVIDE WITH A MANUFACTURER'S OR INSTALLER'S LABEL DESIGNATING THE TYPE OF GLASS AND SAFETY GLAZING STANDARD WITH WHICH IT COMPLIES, WHICH IS VISIBLE IN THE FINAL INSTALLATION.



SECOND FLOOR PLAN

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



FIRST FLOOR PLAN

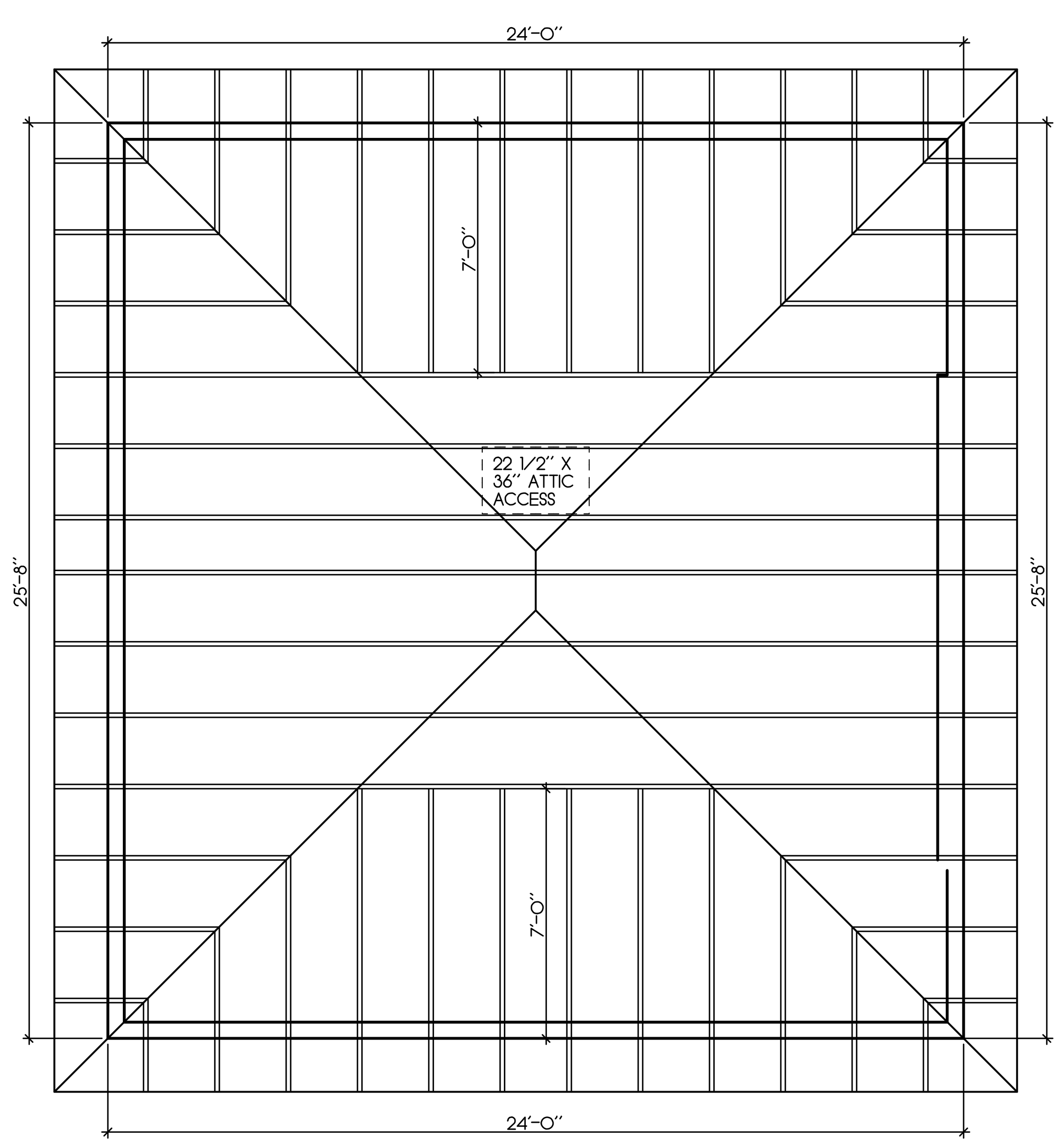
SCALE: 1/4" = 1' - 0"

2ND FL. GENERAL NOTES:

- ALL EXTERIOR WALLS TO BE 2X6 DRAWN AS 5 1/2" (U.N.O.) AND DIMENSIONED TO OUTSIDE WALL CONSTRUCTED AS SHEARWALLS
- ALL INTERIOR WALLS TO BE 2X4 U.N.O. (SHOWN ON PLANS AS 3 1/2" AND DIMENSIONED TO ONE SIDE OF STUD
- ALL ANGLED WALLS TO BE 45° U.N.O.

FIRST FLOOR GENERAL NOTES:

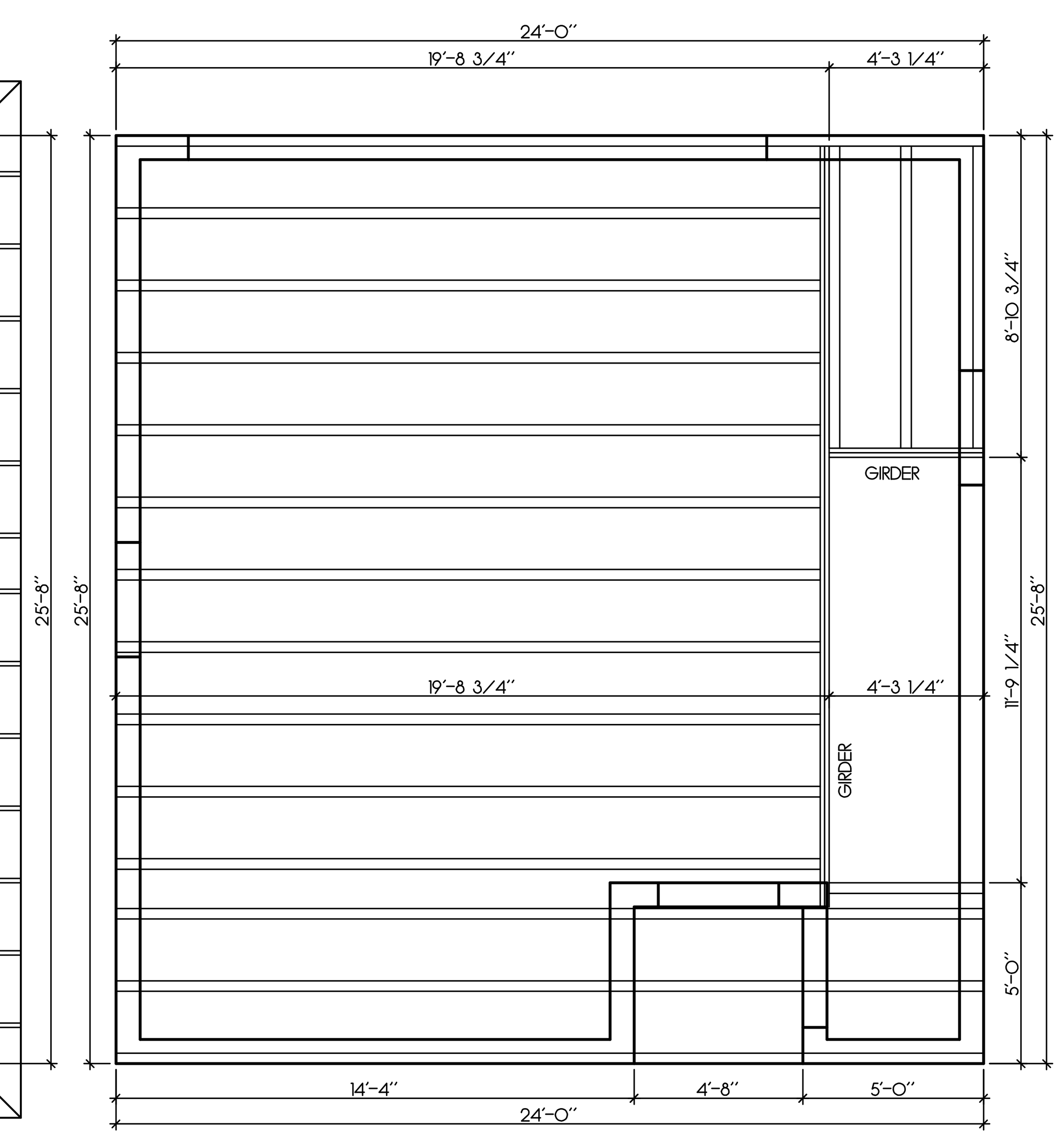
- ALL EXTERIOR CMU. WALLS SHOWN ON PLANS AS 8" AND CONSTRUCTED AS SHEAR WALLS
- ALL INTERIOR WALLS TO BE 2X4 U.N.O. (SHOWN ON PLANS AS 3 1/2" AND DIMENSIONED TO ONE SIDE OF STUD
- ALL ANGLED WALLS TO BE 90' OR 45'U.N.O.
- ALL EXTERIOR CEILINGS TO BE EXTERIOR GRADE 1/2" CL'G. BOARD PER FL 18389-R2 (TYP. U.N.O.)



NOTE:
PRE-ENGINEERED WOOD TRUSSES AT 24" O.C. TYP. (U.N.O.)

ROOF FRAMING PLAN

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



FLOOR FRAMING NOTE:
PRE-ENGINEERED FLOOR TRUSSES 16" DEEP AT 24" O.C. TYP. (U.N.O.) W/ 3/4" T&G SUB-FLOOR GLUED AND NAILED PER CODE

FLOOR FRAMING PLAN

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

SQ. FTG. INFO.	
FIRST	39
SECOND	559
LIVING	598
GARAGE	557
STOOP	20
TOTAL	1175

INTEGRAL ENGINEERING, INC.
16704 Tobacco Road, Lutz, FL 33558
Phone: (813) 908-0402 | Fax: (813) 969-0206 | EB # 8253

I HEREBY CERTIFY THAT, AS A STRUCTURAL ENGINEER, I HAVE REVIEWED THIS DESIGN AND FOUND IT TO BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE, 7TH EDITION, 2020.

SIGNED AND SEALED FOR THE STRUCTURAL ENGINEERING PORTION OF THIS DRAWING ONLY TO ENSURE THAT THE PLANNED STRUCTURE WILL BE SUFFICIENTLY STRONG TO CARRY ITS INTENDED GRAVITY, LATERAL AND UPLIFT LOADS. STRUCTURAL INCLUDES DESIGN OF LOAD BEARING ELEMENTS.

ARCHITECTURAL, WATER INTRUSION PROTECTION, MECHANICAL, ELECTRICAL, FIRE PROTECTION, EGRESS, ACCESSIBILITY, ENERGY CONSERVATION, FUEL GAS, STUCCO APPLICATION, & PLUMBING DESIGN INCLUDED IN THIS DRAWING ARE INCIDENTAL AND/OR FOR INFORMATION PURPOSES ONLY AND THEIR DESIGN SHALL NOT BE THE STRUCTURAL ENGINEER RESPONSIBILITY.

THIS DRAWING IS VALID FOR 12 MONTHS AFTER THE DATE IT IS SIGNED & SEALED

LUIS C. CORREA, FL P.E., S.I. #49018

RADD
Residential Design & Drafting
1122 Indiana Ave
Palm Harbor, Fl. 34683
727-442-3763
www.RADDinc.com

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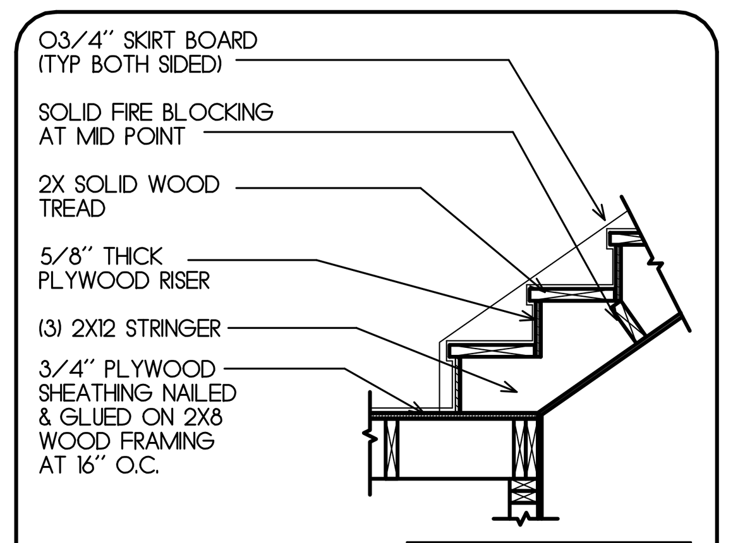
06-06-22	GAM
09-08-22	SS
11-02-23	GAM

MOBLEY HOMES CUSTOM

109 13th Ave North - St. Petersburg, FL 33701

G1



TYP. STAIR DTL.

SCALE: 1/2" = 1'-0"

WOOD STAIR CONNECTION NOTES:

- (3) 2X12 PT STAIR STRINGER ATTACHED TO TOP AND BOTTOM LANDING BEAM OR GIRDER USING SIMPSON A34
- ATTACH EACH STAIR STRINGER TO CONCRETE SLAB USING SIMPSON HL33 W/ 1-1/2"X3" A.B. TO CONCRETE & 1-1/2" THRU BOLT TO STRINGER
- AT LANDING:
  1. USE 2X8 JOISTS AT 16" O.C.
  2. USE (2) 2X8 PERIMETER BEAMS
  3. ATTACH JOISTS TO PERIMETER BEAMS W/ SIMPSON LUS28
  4. ATTACH PERIMETER BEAMS TO CMU WALLS W/ (2) 1/4"X5" MASONRY SCREWS AT MAXIMUM 16" O.C.
  5. ATTACH PERIMETER BEAMS TO EACH STUD IN FRAME WALLS W/ (2) 1/4"X5" LAG SCREWS
  6. PROVIDE 3/4" CDX 4-PLY SHEATHING W/ 8D SHANK NAILS AT 6" O.C.

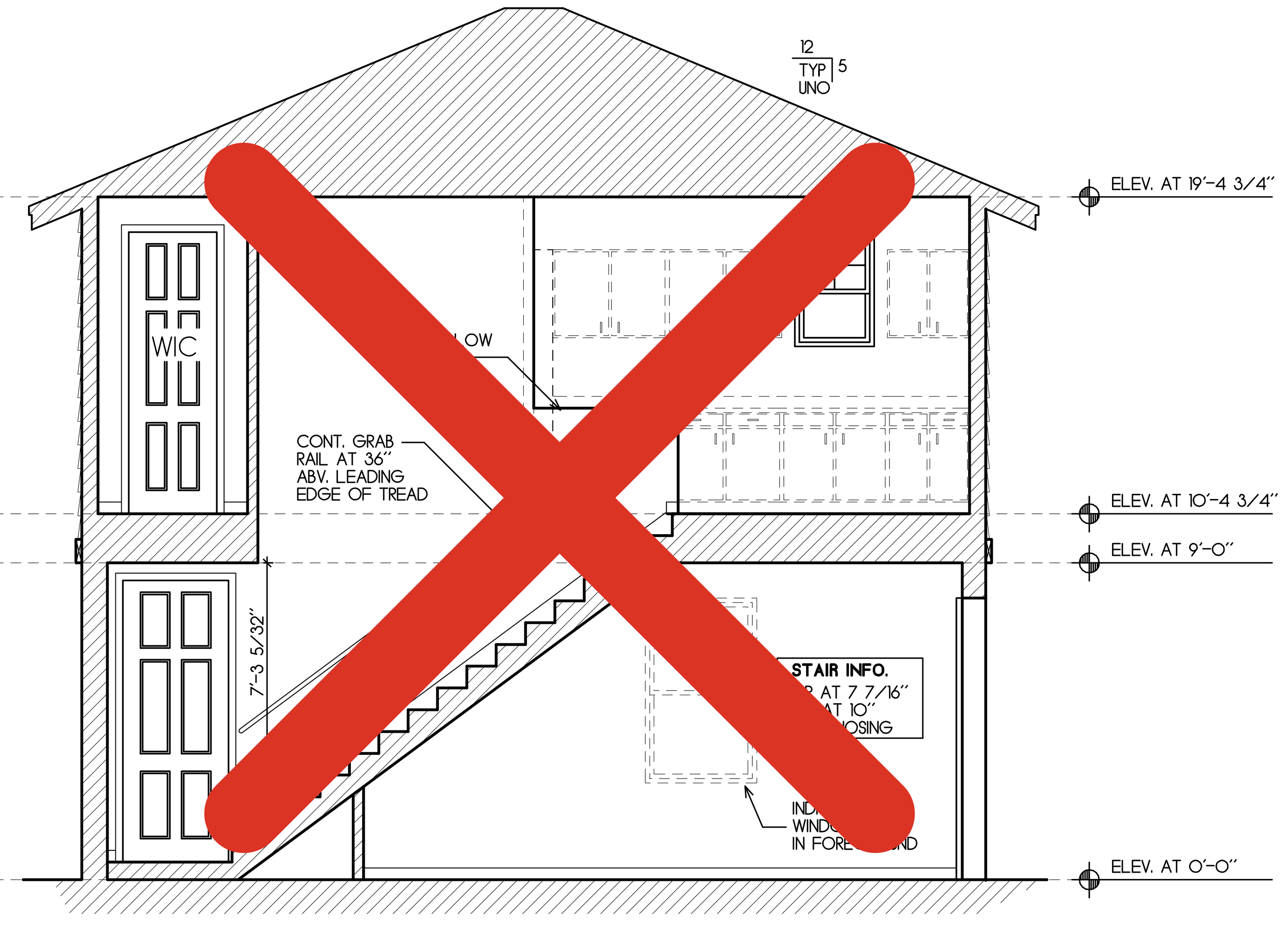
HANDRAILS NOTE:

HANDRAILS FOR STAIRWAYS SHALL BE CONTINUOUS FOR THE FULL LENGTH OF THE FLIGHT, FROM A POINT DIRECTLY ABOVE THE TOP NOSING EDGE OF THE FLIGHT TO A POINT DIRECTLY ABOVE THE LOWEST NOSING EDGE OF THE FLIGHT. HANDRAIL ENDS SHALL BE RETURNED OR SHALL TERMINATE IN NEWEL POST OR SAFETY TERMINALS. HANDRAILS ADJACENT TO A WALL SHALL HAVE A SPACE OF NOT LESS THAN 1 1/2 INCH BETWEEN THE WALL AND THE HANDRAIL. HANDRAIL TO BE CIRCULAR CROSS-SECTION DIA. AT LEAST 1 1/4", NO GREATER THEN 2".

GUARDRAIL NOTE:

GUARD OPENING LIMITATION SHALL INTERMEDIATE RAILS OR ORNAMENTAL CLOSURES WHICH DO NOT ALLOW PASSAGE OF A SPHERE 4 INCHES OR MORE IN DIAMETER AND HAVE AT BOTTOM RAIL WHICH DOES NOT ALLOW PASSAGE OF A SPHERE 2" OR MORE IN DIAMETER TO PASS

BOTH GUARD AND HAND RAILS TO COMPLY WITH MIN. LIVE LOAD FROM TABLE R301.5 (LIVE LOAD 200)

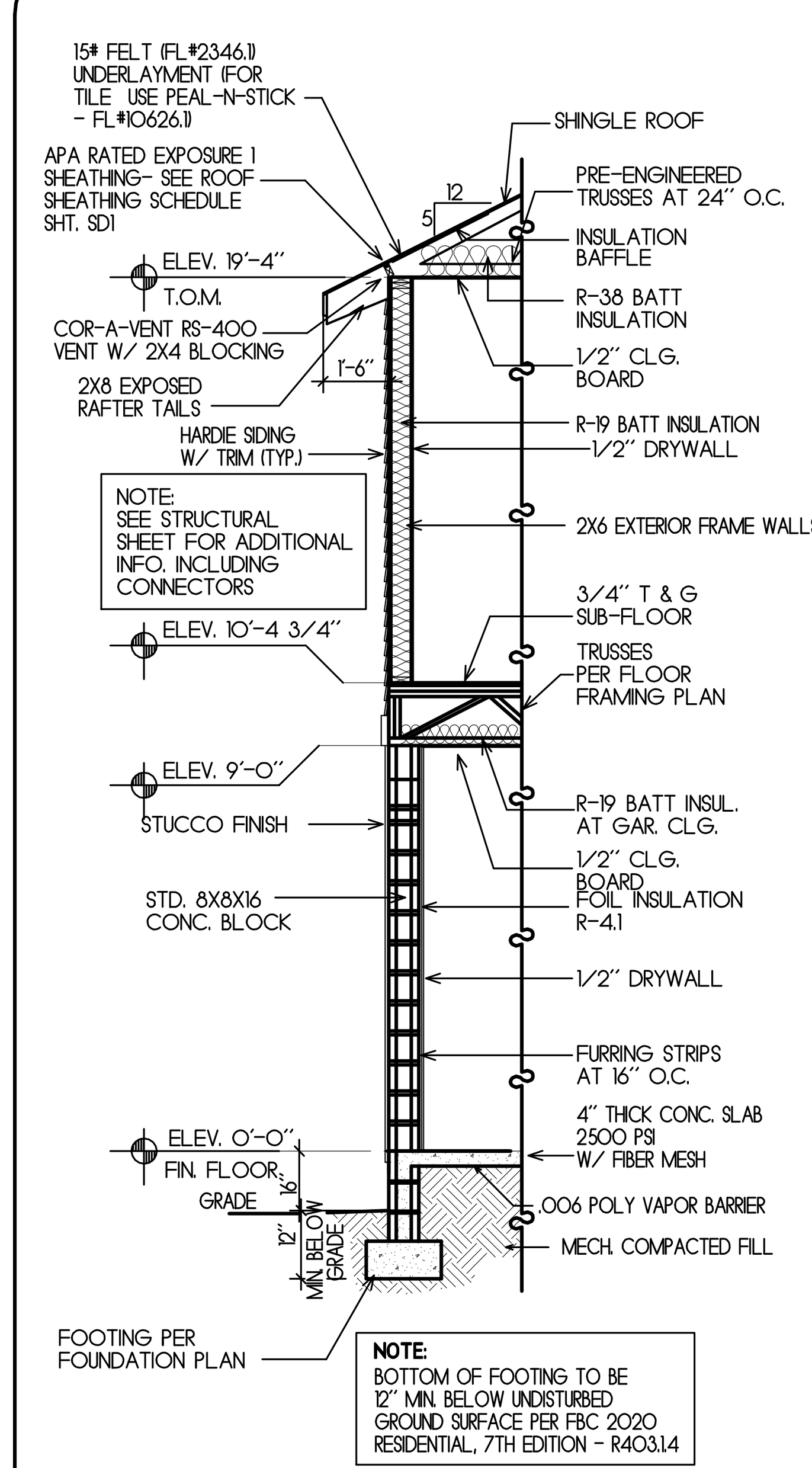


SECTION THRU STAIRS

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

NOTE:
PROVIDE 1/2" GYP. BOARD TO ENCLOSED ACCESSIBLE SPACE UNDER STAIRS

PROVIDE FIRE BLOCKING AT TOP AND BOTTOM OF STAIR STRINGER



WALL SECTION

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

GENERAL NOTES

- ALL ELECTRIC TO CONFORM WITH NATIONAL ELECTRICAL CODE (2017) AND LOCAL ELECTRIC CODES
- ALL OUTLETS ON EXT. OF HOME TO BE W.P. GFI'S
- ALL BEDROOM OUTLETS WILL BE ON ARC FAULT CIRCUIT INTERRUPT PER NEC 2017 210.12

NOTE:

ALL 15 AND 20 AMP CIRCUITS INSTALLED IN DWELLING UNITS FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, REC ROOMS, CLOSETS, HALLWAYS, OR SIM. AREAS SHALL BE PROTECTED BY A LISTED AFC INTERRUPTER, COMBINATION - TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT TO COMPLY WITH NEC 2017, 210.12

SMOKE DETECTOR NOTE:

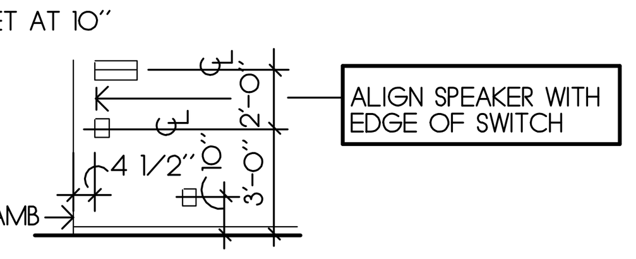
SMOKE DETECTOR TO DETECT CARBON MONOXIDE AS WELL AS SMOKE INSTALLED WITHIN 10 FEET OF EACH BEDROOM AND TO BE INTERCONNECTED W/ BATTERY BACK-UP.

NOTE:

PHONE JACKS, TV OUTLETS AND CEILING FANS ARE OPTIONAL IN SECONDARY BEDROOMS

ELECTRICAL LEGEND

- DUPLEX OUTLET (110V AT 10")
- SPLIT DUPL. OUTLET (110V AT 10") TOP PLUG IS 'HOT'
- DUPLEX OUTLET (110V AT 6" ABV. COUNTER TOP)
- W.P. WEATHERPROOF DUPL. OUTLET (110V AT 12")
- 220V OUTLET
- SPECIAL PURPOSE 110 V. CONNECTION
- SPECIAL PURPOSE 220 V. CONNECTION
- TELEPHONE OUTLET AT 10"
- T.V. TELEVISION OUTLET AT 10"
- 6e CAT-6e PRE-WIRE
- SWITCH AT 36"
- 3-WAY SWITCH AT 36"
- 4-WAY SWITCH AT 36"
- DIMMER SWITCH AT 36"
- DOORBELL PUSH BUTTON
- CEILING MOUNT LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- CEILING FAN PRE--WIRE
- SMOKE DETECTOR
- CM CARBON MONOXIDE DETECTOR
- FLUORESCENT LIGHT
- FLUORESCENT WRAP FIXTURE
- EXHAUST FAN / LIGHT FIXTURE COMBO
- EXHAUST FAN
- FLOOD LIGHT
- INTERCOM SPEAKER AT 5'-0"
- CEILING MOUNTED SPEAKER
- CHIMES
- V VACUUM OUTLET AT 10"
- A/C REGISTER
- T THERMOSTAT
- TP SECURITY PAD



NOTE:

ALL HEIGHTS ARE TO CENTERLINE ABOVE FIN. FLOOR

INTERCOM SPEAKERS ARE OPTIONAL AND SHOWN FOR LOCATION ONLY

C.J. - INDICATES 1/4" SAW CUT CONTROL JOINTS

FOUNDATION DESIGN BASED ON:		
SOIL CAPACITY:	2,000	PSF
GEOTECHNICAL REPORT PREPARED BY:		
NAME OF COMPANY:		
ADDRESS:		
PHONE;		
REPORT NO.:		
DATE:		

RECESS NOTES:

- S.G.D. RECESS TO BE 2-1/2" .
- FR. DR. RECESS TO BE 3/4" (NO RECESS IF COVERED BY ROOF AREA) .
- SERVICE DOOR RECESS TO BE 3/4" .
- GARAGE DOOR RECESS TO BE 3/4" .

FOOTING SCHEDULE

- F-1 1'-0" WIDE X 1'-8" DEEP MONOLITHIC CONC. FTG. W/ (2) #5 RODS CONTINUES
- F-2 1'-8" WIDE X 1'-8" DEEP MONOLITHIC CONC. FTG. W/ (3) #5 RODS CONTINUES
- F-3 8"X8" THICKENED EDGE W/ (1) #5 ROD HORIZONTAL CONTINUES
- F-4 24" SQ.X12"DP. CONCRETE FOOTING W/ (3) #5 RODS EACH WAY
- F-5 1'-4" WIDE X 1'-4" DEEP MONOLITHIC CONC. FTG. W/ (2) #5 RODS CONTINUES

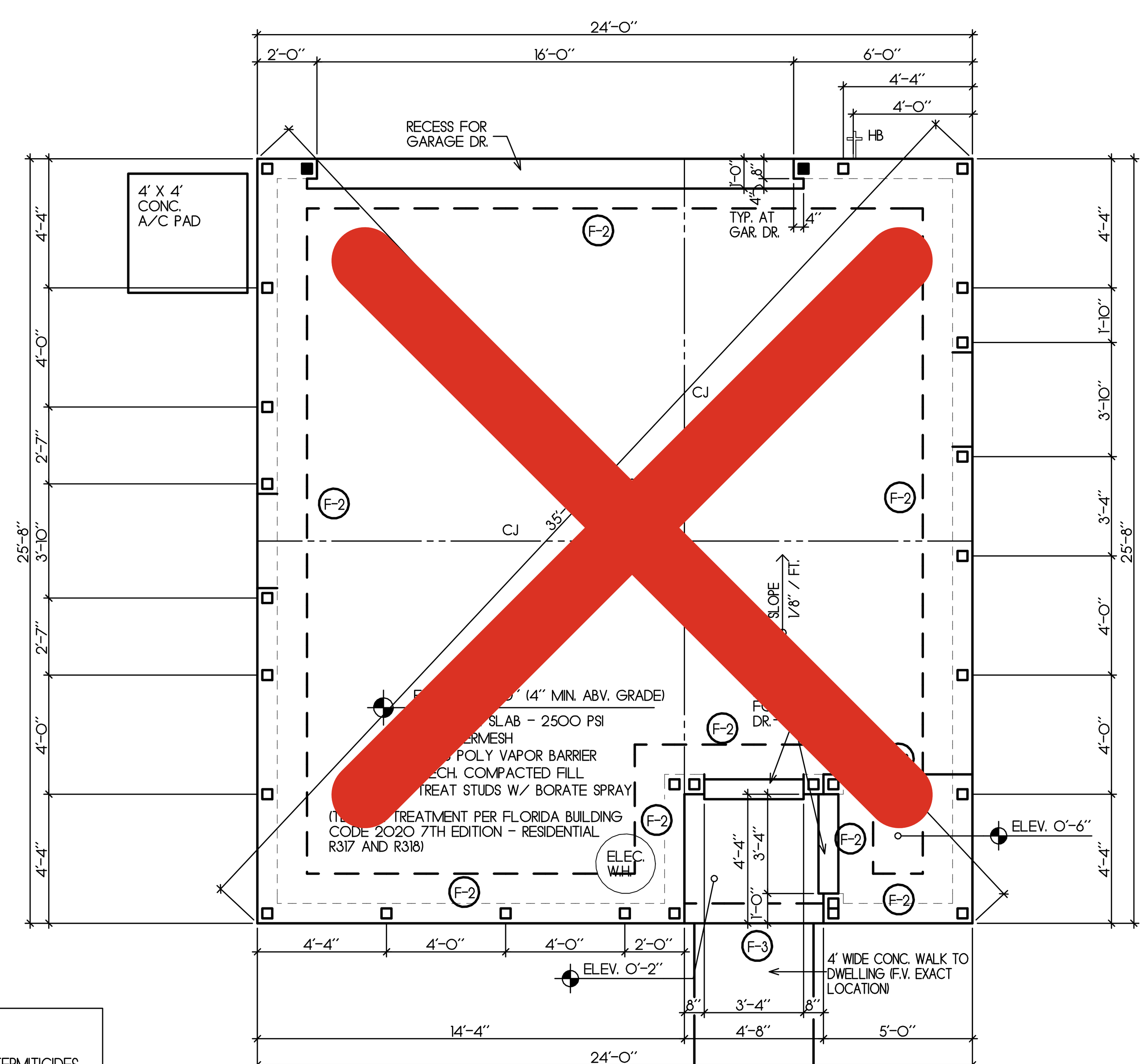
- □ INDICATES (1) #5 DOWEL TIED FROM FTG. TO LINTEL STEEL POUR CELL SOLID W/ CONC.
- ■ INDICATES (2) #5 DOWEL TIED FROM FTG. TO LINTEL STEEL POUR CELL SOLID W/ CONC.

GENERAL NOTES:

- ALL ANGLES ARE 90' OR 45' U.N.O.
- ALL FRAME WALL DIMENSIONS ARE TO ℄ OF WALL

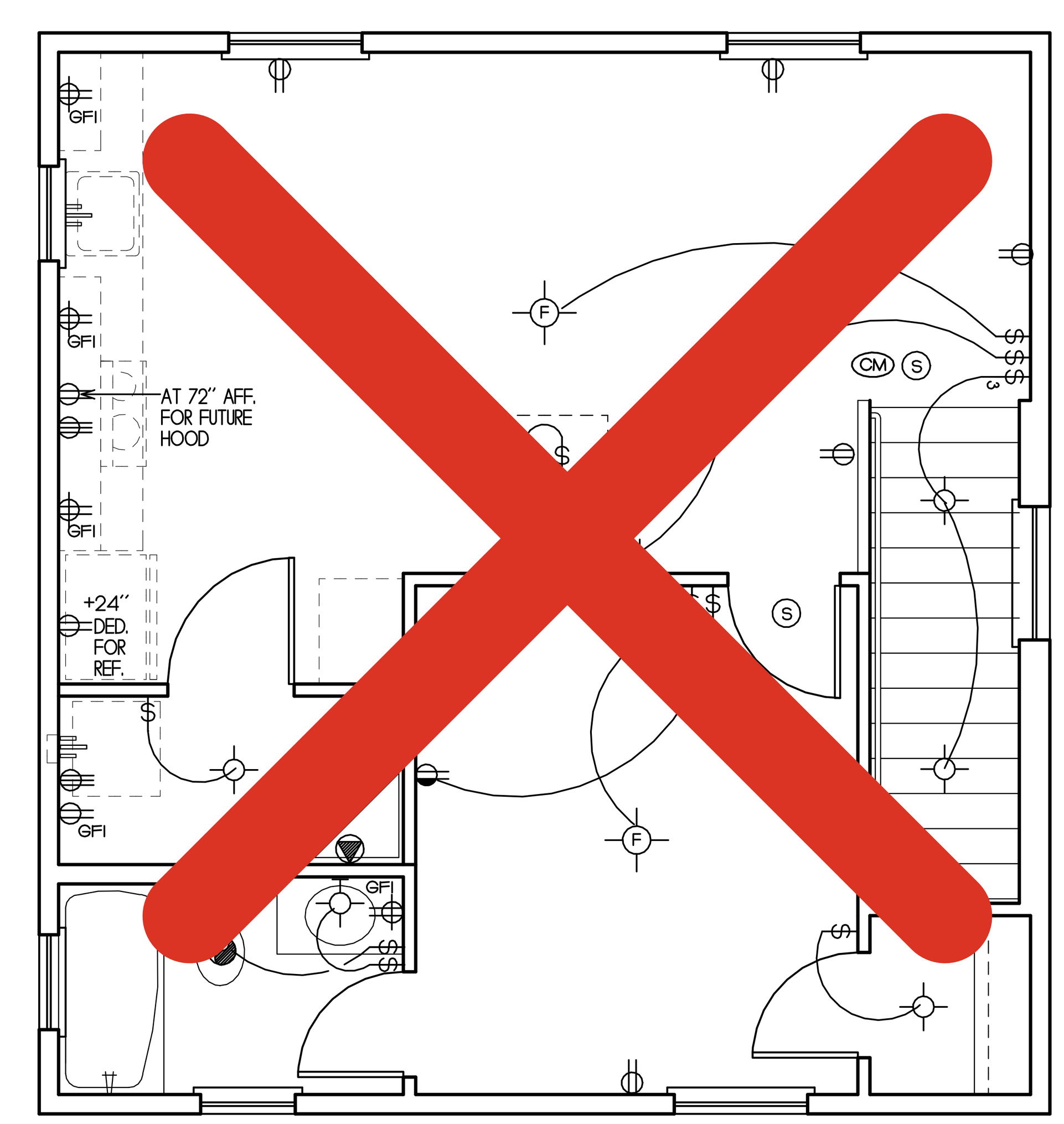
TERMITE PROTECTION:

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.



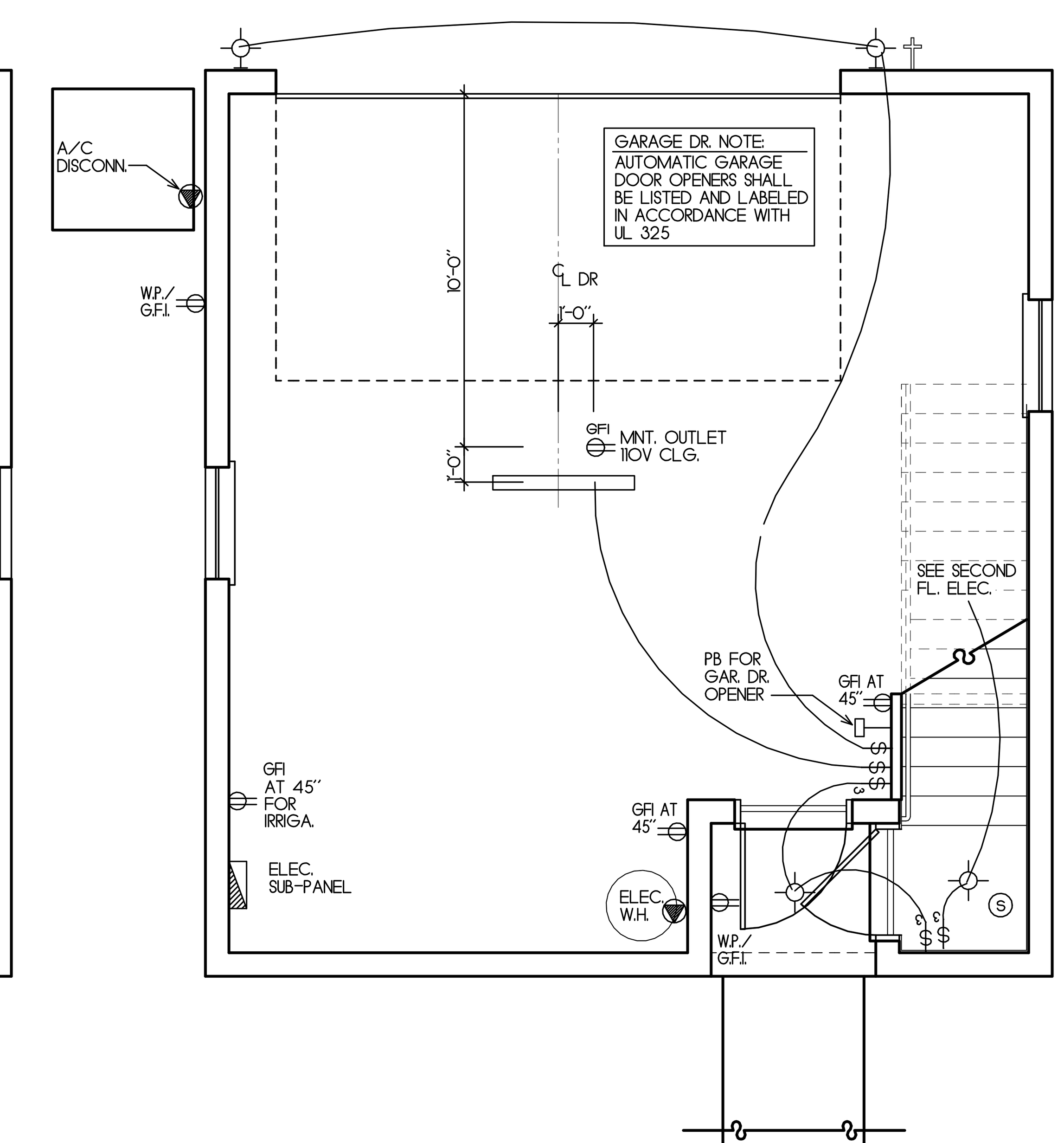
FOUNDATION PLAN

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



SECOND FLOOR ELECTRICAL PLAN

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



FIRST FLOOR ELECTRICAL PLAN

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

INTEGRAL ENGINEERING, INC.
16704 Tobacco Road, Lutz, FL 33558
Phone: (813) 908-0402 | Fax: (813) 969-0206 | EB # 8253

I HEREBY CERTIFY THAT, AS A STRUCTURAL ENGINEER, I HAVE REVIEWED THIS DESIGN AND FOUND IT TO BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE, 7TH EDITION, 2020.

SIGNED AND SEALED FOR THE STRUCTURAL ENGINEERING PORTION OF THIS DRAWING ONLY TO ENSURE THAT THE PLANNED STRUCTURE WILL BE SUFFICIENTLY STRONG TO CARRY ITS INTENDED GRAVITY, LATERAL AND UPLIFT LOADS. STRUCTURAL INCLUDES DESIGN OF LOAD BEARING ELEMENTS.

ARCHITECTURAL, WATER INTRUSION PROTECTION, MECHANICAL, ELECTRICAL, FIRE PROTECTION, EGRESS, ACCESSIBILITY, ENERGY CONSERVATION, FUEL GAS, STUCCO APPLICATION, & PLUMBING DESIGN INCLUDED IN THIS DRAWING ARE INCIDENTAL AND/OR FOR INFORMATION PURPOSES ONLY AND THEIR DESIGN SHALL NOT BE THE STRUCTURAL ENGINEER RESPONSIBILITY.

THIS DRAWING IS VALID FOR 12 MONTHS AFTER THE DATE IT IS SIGNED & SEALED

LUIS C. CORREA, FL P.E., S.I. #49018

RADD
Residential Design & Drafting
1122 Indiana Ave
Palm Harbor, Fl. 34683
727-442-3763
www.RADDinc.com

11-16-2020	SS
01-08-21	FP
04-29-21	GAM
06-06-22	GAM
09-08-22	SS
11-02-23	GAM

MOBLEY HOMES CUSTOM

109 13th Ave North - St. Petersburg, FL 33701

G2

Approved Products List

State of Florida 2020 Code 7th Edition
Product Approvals

Product Category	Sub Category	Manufacturer	Approval Number
Exterior Doors	Sectional garage door 2-car	Cloypay Building Products Company	FL5684-R9 (5684.17)
Exterior Doors	Sectional garage door 2-car	Cloypay Building Products Company	FL5684-R9 (5684.18)
Exterior Doors	Sectional garage door 1-car	Cloypay Building Products Company	FL5684-R9 (5684.8)
Exterior Doors	Swinging Door Assemblies 3080	Masonite International	FL22363 R7 (22363.8)
Exterior Doors	Swinging Door Assemblies 6080	Masonite International	FL22363 R7 (22363.9)
Exterior Doors	Mullions	M I Windows and Doors	FL15353-R5 (15353.1-.11)
Windows	Single Hung	M I Windows and Doors	FL17499-R9 (17499.9)
Windows	Fixed	M I Windows and Doors	FL15349 R15 (Impact Glass) (15349.5)
Windows	Horizontal Slider	M I Windows and Doors	FL15351-R8 / FL15351.5 (Impact Glass)
Roofing	Asphalt Shingles	Certainteed	FL5444-R20 (5444.1)
Roofing	Roofing Tiles	Eagle Roofing Products	FL7473-R9 (7473.1)
Roofing	Underlayments	Polyglass	FL 5259-R39 (5259.1)
Roofing	Metal Roofing	Tamko Building Products	FL3901-R10 (3901.1)
Concrete	Lintel	Cast-Crete USA	FL158-R15 (158.1)
Siding	Panel	James Hardi Building Products	FL13223 R7 (13223.1)
Siding	Siding	James Hardi Building Products	FL13192.1 R6
Soffit	Soffit	James Hardi Building Products	FL13265.2 R6
Soffit	Soffit	Alpha Aluminum Solid & Vented Aluminum Sc	FL16544 R7 (16544.1)
Soffit	Soffit	National Gypsum Company a dba of New NG(	FL18389 R2 (18389.1)
Structural Components	Products Introduced as a Result of New Technolo	Smart Vent Products Inc.	FL5822-R8 (5822.1)
Roofing	Roof Vent	Lomanco, Inc.	FL 3792.2 R15

I. GENERAL

1. SUBCONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION TO ENSURE THE SAFETY OF THE BUILDING UNTIL STRUCTURAL SYSTEM IS COMPLETED. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, SHORING, GUYS TO TIE-DOWNS THAT MAY BE NECESSARY.
2. SUBCONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF HIS WORK DURING CONSTRUCTION.
3. APPLICABLE BUILDING CODES: - FLORIDA BUILDING CODE 7th EDITION (2020) RESIDENTIAL. DRAWINGS ARE CERTIFIED FOR STRUCTURAL PORTION ONLY THAT INCLUDES FOUNDATION SYSTEMS, BEAMS, POSTS, SHEARWALLS, STRUCTURAL CONNECTORS, REQUIRED WIND DESIGN PRESSURES, FASTENERS, SHEATHING MATERIAL AND THICKNESS, WALL STRUCTURAL ELEMENTS, HEADERS OVER WINDOWS, REINFORCED CONCRETE, STEEL FRAMING, WOOD FRAMING, MASONRY SIZES AND REINFORCEMENT, AND SPECIFICATIONS DESCRIBED HEREIN.
4. ALL CONTRACTORS, SUBCONTRACTORS, SUPPLIERS AND FABRICATORS SHALL BE RESPONSIBLE FOR THE CONTENT OF DRAWINGS, AND FOR THE SUPPLY AND DESIGN OF APPROPRIATE MATERIALS AND WORK PERFORMANCE.
5. ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, ERECTED, USED, CLEANED, AND CONDITIONED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
6. ALL STUCCO FINISH SHALL BE APPLIED AS PER ASTM C926 AND CONTROL JOINTS PROVIDED AS PER ASTM C1063.
7. DESIGN LOADS:

COMPONENT	LIVE LOAD (PSF)	DEAD LOAD (PSF)
ROOF		
SHINGLES AND METAL	20	20
TILE	20	30
FLOOR		
BALCONIES	60	10
UNINHABITABLE ATTICS WITH LIMITED STORAGE	20	10
MECHANICAL EQUIPMENT IN ATTICS	SEE MEP DRAWINGS	
ALL OTHER ROOMS	40	10
WINDLOADS	SEE CHART	
SNOW AND SEISMIC LOAD	NONE	

8. STRUCTURAL MEMBER ALLOWABLE DEFLECTION:

RAFTERS W/ SLOPES GREATER THAN 3:12 WITH NO FINISHED CEILING	L/180
INTERIOR WALLS AND PARTITIONS	H/180
FLOORS AND PLASTERED CEILINGS	L/360
ALL OTHER STRUCTURAL MEMBERS	L/240
EXTERIOR WALLS	H/360
LINTELS SUPPORTING MASONRY VENEER WALLS	L/600

II. SITE WORK

1. FOUNDATION DESIGN IS BASED ON AN ASSUMED MINIMUM SOIL PRESSURE OF 2,000 PSF OR AS NDICATED ON THE FOUNDATION PLAN. THE CONTRACTOR IS RESPONSIBLE TO FOLLOW RECOMMENDATIONS INCLUDED IN THE RESPECTIVE GEOTECHNICAL REPORT AND SHALL CONFIRM THE SOIL CONDITIONS. SHOULD FIELD CONDITIONS INDICATE THIS MINIMUM CONDITION DOES NOT EXIST, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER OF RECORD.
2. THE SUBGRADE UNDER THE NEW CONCRETE FOUNDATIONS SHALL BE COMPACTED TO 95% OPTIMUM DENSITY. SOIL COMPACTION TESTS TO BE TAKEN BY A QUALIFIED SOILS LAB PRIOR TO POURING ANY CONCRETE.
3. FOOTINGS SHALL BE NEAT EXCAVATED WHERE POSSIBLE WITH SIDES AND TOP EDGES FREE OF LOOSE OR WET MATERIALS. WHERE NEAT EXCAVATION IS NOT POSSIBLE, FOOTINGS EXCAVATION SHALL BE OPEN CUT WITH EDGES FORMED AND BRACED. ALL FOOTINGS WITH FORMED EDGES SHALL BE BACKFILLED FROM BOTTOM TO TOP OF FOOTING WITH SELECT FILL. THE BOTTOM EXCAVATION SHALL BE CLEAN AND DRY WITH ALL LOOSE MATERIAL REMOVED FOR AN ESSENTIALLY FLAT BEARING SURFACE.

III. CAST IN PLACE CONCRETE

1. CONCRETE TO BE NORMAL WEIGHT WITH THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS:
   a. FOOTINGS, SLAB-ON-GRADE, SLAB FILL 2500 PSI
   b. MASONRY WALL TIE BEAMS, TIE COLUMNS 2500 PSI
   c. REINFORCED CONCRETE BEAMS AND COLUMNS 3000 PSI
2. CONCRETE SHALL BE READYMIX PER ASTM C94:
   a. PORTLAND CEMENT - ASTM C150
   b. AGGREGATES - ASTM C33 (3/4" MAX.)
   c. NO CALCIUM CHLORIDE
   d. AIR ENTRAINING - ASTM C260
   e. WATER REDUCING - ASTM C494
   f. FLYASH - ASTM C618-78 CLASS F (20% MAX.)
   g. WATER - CLEAN AND POTABLE
3. REINFORCING STEEL: ASTM A615 GRADE 40, DEFORMED BARS.
4. REQUIRED SLUMP RANGE = 3" TO 5".
5. WELDED WIRE FABRIC: ASTM A185
6. MOISTURE BARRIER: 6 MIL POLYETHYLENE.
7. CODES AND STANDARDS;
   a. ACI 301 "SPEC FOR STRUCTURAL CONCRETE FOR BUILDINGS."
   b. ACI 305 "RECOMMENDED PRACTICE FOR HOT WEATHER CONCRETING."
   c. ACI 318 "BLDG. CODE REQUIREMENTS FOR REINF. CONCRETE."
   d. ACT 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT."
8. MINIMUM LAP SPLICE = 40 BAR DIAMETERS UNLESS NOTED OTHERWISE.
9. CONCRETE FINISHES SHALL BE PER CONTRACTOR'S SPEC'S.
10. SUBCONTRACTOR IS RESPONSIBLE FOR THE PROPER DESIGN AND CONSTRUCTION OF ALL FORMWORK, SHORING, AND RESHORING.
11. REINFORCING BAR COVER:
   a. FOOTINGS 3"
   b. COLUMNS 1 1/2"
   c. BEAMS AND WALLS 1 1/2"
   d. SLABS 3/4" (INTERIOR), 1 1/2" (EXTERIOR)
12. CONCRETE SHALL BE PLACED WITHIN 90 MINUTES OF BATCH TIME.
13. PROVIDE CORNER BARS AT ALL WALL FOOTING AND BEAM CORNERS TO MATCH HORIZONTAL BARS. (25" MINIMUM LAP FOR #5 BARS, OTHERS AS PER ACI 318).
14. ALL BUILDING SLABS-ON-GRADE SHALL BE NOMINAL 4" THICK, REINFORCED WITH 6x6-W1.4 W.W.F. ON 6 MIL VAPOR BARRIER. SEE PLANS FOR OTHER CONDITIONS AND SIZES. NO FIBERMESH ALLOWED UNLESS OTHERWISE NOTED ON THE FOUNDATION PLAN.
15. ANCHOR BOLTS FOR WOOD LEDGERS AND PLATES TO CONCRETE OR MASONRY (OPTIONS):
   a. J BOLTS - USE 1/2" X 8" "J" BOLTS WITH 6" EMBEDMENT AND 2" PROJECTION WHEN INSTALLED PRIOR TO PLACING CONCRETE, AS SHOWN ON DRAWINGS.
   b. EXPANSION ANCHORS - USE 1/2" X 4" EMBED, HILTI KWIK BOLT II, OR EQUAL, AT LOCATIONS (OTHER THAN EDGE CONDITIONS) IN LIEU OF 1/2" X 8" "J" BOLTS.
   c. EPOXY ANCHORS IN CONCRETE - USE 1/2" X 4-1/4" IMBED, WITH HILTI C100), OR ANCHOR BOND BY CELTITE, INC., AT EDGE OF SLAB CONDITION WHERE BOLT IS LESS THAN 6" TO A CONCRETE EDGE.
   d. EPOXY ANCHORS IN TOP OF BLOCK WALLS - USE THREADED ROD (3/4" X A6-5/8" IMBED) ON TOP OF 8" MASONRY WALLS WITH HILTI HIT C-100 ADHESIVE OR ANCHOR BOND, WHEN 1/2" X 8" "J BOLTS ARE OMITTED.
16. FOOTING SIZES SHOWN ARE TYPICAL ONLY FOR STATED SOIL BEARING PRESSURE AND CONSISTED COMPACTION. CONTRACTOR SHALL BE RESPONSIBLE FOR FOOTINGS COMPLYING WITH THE DESIGN REQUIREMENTS OF SPECIFIC SOIL CONDITIONS.
17. PROVIDE 1/2" EXPANSION JOINT MATERIAL BETWEEN ALL CONCRETE SLABS AND ABUTTING CONCRETE OR MASONRY WALLS OCCURRING IN EXTERIOR OR UNHEATED AREAS.
18. PROVIDE 1/4" SAW CUT EXPANSION JOINTS ON SLABS SPACED AT NO MORE THAN 18 FEET ON CENTER EACH WAY AND AS SHOWN ON PLANS

IV. MASONRY

1. HOLLOW LOAD BEARING UNITS (CMU) SHALL CONFORM TO ASTM C90, NORMAL WEIGHT, TYPE I, GRADE N. MINIMUM NET COMPRESSIVE STRENGTH = 1900 PSI.
2. MORTAR SHALL BE TYPE M OR S AND CONFORM TO ASTM C270.
3. CONCRETE GROUT SHALL CONFORM TO ASTM C476:
   a. 2,500 PSI AT 28 DAYS.
   b. 3/8" MAXIMUM AGGREGATE.
   c. 8" - 11" SLUMP.
4. BARS SHALL HAVE MINIMUM CLEARANCE OF 1/2" FROM MASONRY. THE CLEAR DISTANCE BETWEEN BARS SHALL NOT BE LESS THAN ONE BAR DIAMETER, NOR LESS THAN 1".
5. VERTICAL REINFORCING SHALL BE AT ALL CORNERS, EACH JAMB OF OPENINGS, UNDER ALL GIRDER LOADS, AND NOT TO EXCEED 4'0" O/C FOR STRAIGHT WALLS, OR AS SHOWN ON THE DRAWINGS. FILL CELLS WITH CONCRETE GROUT AS SPECIFIED. PROVIDE ACI 318 90 DEGREE STANDARD HOOKS INTO FOOTING, AND TIE BEAMS.
6. REINFORCING BARS SHALL BE STRAIGHT EXCEPT FOR BENDS AROUND CORNERS AND WHERE BENDS OR HOOKS ARE DETAILED ON THE PLANS.
7. REINFORCING BARS SHALL BE LAPPED 40 BAR DIAMETERS WHERE SPLICED AND SHALL BE WIRED TOGETHER.
8. WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL CORE, IT SHALL NOT BE SLOPED MORE THAN ONE HORIZONTAL IN SIX VERTICAL. DOWELS SHALL BE GROUTED INTO A CORE IN VERTICAL ALIGNMENT, EVEN THOUGH IT IS IN AN ADJACENT CELL TO THE VERTICAL WALL REINFORCEMENT.
9. CLEANOUTS SHALL BE PROVIDED IN THE BOTTOM COURSE OF MASONRY IN EACH GROUT POUR WHEN THE POUR HEIGHT EXCEEDS 5'. PROVIDE 4" X 4" OBSERVATION HOLE TO VERIFY CONCRETE GROUT PLACEMENT.
10. PLACE ALL MASONRY IN RUNNING BOND WITH 3/8" MORTAR JOINTS. PROVIDE COMPLETE COVERAGE FACE SHELL MORTAR BEDDING, HORIZONTAL AND VERTICAL. FULLY MORTAR WEBS IN ALL COURSES OF PIERS, COLUMNS, AND PILASTERS AND ADJACENT TO GROUTED CELLS.
11. PROVIDE 8" X 8" PRECAST REINFORCED CONCRETE LINTELS OVER ALL MASONRY OPENINGS NOT SHOWN TO HAVE A STRUCTURAL BEAM. MINIMUM END BEARING = 4". REFER TO LINTEL SCHEDULE (MINIMUM CAPACITY OF 1000 PLF).
12. PROVIDE METAL CAVITY CAPS, 6" WIRE MESH, OR EQUAL PRODUCTS, INC., WHERE REQUIRED TO RETAIN GROUT IN VERTICAL CELLS.
13. IF NOTED ON DETAILS OR WALL LEGENDS, HORIZONTAL REINFORCEMENT SHALL BE 120 TRUSS-MESH BY HOHMANN & BARNARD.

V. CARPENTRY

1. DIMENSIONED LUMBER SHALL BE DRESSED S4S, AND SHALL BEAR THE GRADE STAMP OF THE MANUFACTURER'S ASSOCIATION.
2. EXTERIOR WALLS OF WOODFRAME CONSTRUCTION SHALL BE DESIGNED IN ACCORDANCE WITH ANSI AWC NDS AND/OR AS SPECIFY HEREBY.
3. ALL LUMBER SHALL BE SOUND, SEASONED, AND FREE FROM WARP.
4. ALL STRUCTURAL BEAMS AND HEADERS SHALL BE SOUTHERN YELLOW PINE (SYP.) NO. 1 GRADE OR BETTER, WITH SINGLE MEMBER (UNFACTORED) STRESSES AS FOLLOWS:
   a. Fv = 90 PSI
   b. Fc = 975 PSI
   c. E = 1,600,000 PSI
   d. 19% MAXIMUM MOISTURE CONTENT
5. FRAMING LUMBER SHALL BE #1 SPRUCE-PINE-FIR OR BETTER.
6. INTERIOR NON-LOAD BEARING WALLS MAY BE UTILITY GRADE.
7. ALL LUMBER IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE TREATED.
8. PRESSURE TREATED LUMBER SHALL BE PROVIDED IN ACCORDANCE WITH THE AMERICAN WOOD PROTECTION ASSOCIATION LATEST STANDARDS.
9. SHEATHING FOR ROOFS AND WALLS SHALL BE APA RATED (EXPOSURE 1) SHEATHING WITH EXTERIOR GLUE. ALL ROOF SHEATHING TO BE AS PER SCHEDULE AND MIN 19/32" FOR SHINGLE ROOF OR 5/8" FOR TILE ROOF. WALL SHEATHING TO BE MININUM 7/16" OSB OR 15/32" PLYWOOD FOR STUCCO FINISH AND MINIMUM 5/8" 5 PLY AWPA FOR HARDIE PLANK PRODUCT.
10. NAILING FOR WALL SHEATHING SHALL BE 8D RING SHANK @ 4" O.C. @ PANEL EDGES, AND 6" O.C. INTERMEDIATE. NAILING FOR ROOF SHEATHING SHALL BE AS PER DETAIL.
11. ALL FLOORING MATERIAL TO BE 3/4" T&G PLYWOOD, NAILED AND GLUED TO FLOOR JOISTS. FLOOR NAIL WITH 10d NAILS AT 3" O/C AT PANEL EDGES, 6" O/C IN THE FIELD. STAGGER NAILS AT 2" O/C AT BUTT ENDS OF PLYWOOD SHEATHING.
12. INSTALL BRIDGING IN ALL (2X) FLOOR OR ROOF JOISTS AT 8'-0" MAXIMUM. INSTALL BLOCKING IN ALL BEARING WALLS AND PARTITIONS OVER 9'-0" @ MID-HEIGHT. BRACE GABLE END WALLS AT 4'0" O/C WHERE WALL FRAMING IS NOT CONTINUOUS FROM FOUNDATION TO ROOF, OR AS SHOWN ON DRAWINGS.
13. ALL NAILING AND BOLTING SHALL COMPLY WITH AMERICAN INSTITUTE OF TIMBER CONSTRUCTION REQUIREMENTS. ALL NAILS EXPOSED TO THE EXTERIOR SHALL BE GALVANIZED.
14. ALL CONNECTION HARDWARE SHALL BE GALVANIZED AND SUPPLIED BY SIMPSON STRONGTIE CO., OR EQUIVALENT. SUBMIT CUT SHEETS FOR ALL CONNECTION HARDWARE TO CONTRACTOR FOR APPROVAL. ALL NAIL HOLES SHALL BE FILLED OR AS PRESCRIBED BY THE MANUFACTURER.
15. PROVIDE A SINGLE PLATE AT THE BOTTOM AND DOUBLE PLATE AT THE TOP OF ALL LOAD BEARING STUD WALLS. STAGGER END JOINTS IN DOUBLE PLATES AT LEAST 4'-0" PER DETAIL. 2 X 4 SILL PLATES FOR BEARING WALLS SHALL BE BOLTED TO FOUNDATION AS PER BEARING WALL DETAIL.
16. LOAD BEARING STUDS SHALL BE DOUBLED AT ALL ANGLES AND AROUND ALL OPENINGS, AND AT STRUCTURALLY APPROVED ARCHITECTURAL WALL PANEL JOINTS. STUDS SHALL BE TRIPLED AT ALL CORNERS.
17. WOOD HEADERS OVER OPENINGS SHALL BE AS SHOWN ON SCHEDULE OR FRAMING PLANS.
18. REGARDLESS WHAT IS SHOWN, FRAME WALLS W/ STUCCO FINISH SHALL BE CONSTRUCTED OF S-P-F SIZE AND SPACED AS FOLLOWS: 2X4 @ 16" O.C. FOR UP TO 8 FT HIGH, 2X6 @ 16" O.C. FOR UP TO 10 FT HIGH, 2X8 @ 16" FOR UP TO 14 FT HIGH. STUDS FOR OTHER HEIGHTS AS SHOWN ON PLANS.
19. RAFTER SCHEDULE FOR CONVENTIONAL FRAMED AREAS UNLESS OTHERWISE NOTED.

MEMBER SIZE	MAXIMUM SPAN (SYP #1)
2 X 4	6 FT
2 X 6	8 FT
2 X 8	10 FT
2 X 10	12 FT
2 X 12	14 FT

NOTE 1: RAFTERS MUST BE BRACED LATERALLY BY A CONTINUOUS NAILING OF SHEATHING OR BRACED AT 24" O/C, WITH MINIMUM 1X4.
NOTE 2: RAFTER SPACING NOT TO EXCEED 24" O/C.
NOTE 3: RIDGE BOARDS TO BE ONE SIZE LARGER THAN RAFTER UNLESS OTHERWISE NOTED ON PLANS.
NOTE 4: CONNECTOR SCHEDULE
   a. SIMPSON MTS20 OR H10A (OR EQUAL) BETWEEN CAT BLOCKING AND ROOF TRUSSES.
   b. SIMPSON H5 (OR EQUAL) BETWEEN RAFTER TAILS TO CAT BLOCKING.
   c. SIMPSON RR (OR EQUAL) BETWEEN THE RAFTERS AND RIDGE BOARD.
   d. SIMPSON CS20 AT ENDS OF RIDGE BOARD, OR SIMPSON JOIST HANGER WHERE APPLICABLE.

MINIMUM THICKNESS AND APPLICATION OF GYPSUM BOARD AND GYPSUM PANEL PRODUCTS

THICKNESS OF GYPSUM BOARD OR GYPSUM PANEL PRODUCTS (inches)	APPLICATION	ORIENTATION OF GYPSUM BOARD OR GYPSUM PANEL PRODUCTS TO FRAMING	MAXIMUM SPACING OF FRAMING MEMBERS (inches o.c.)	MAXIMUM SPACING OF FASTENERS(inches) Nails (a)	Screws (b)	SIZE OF NAILS FOR APPLICATION TO WOOD FRAMING (c)
Application without adhesive						
3/8	Ceiling (d)	Perpendicular	16.0	7.0	12.0	13 gage, 11/4? long,□19/64? head; 0.098? diameter,11/4? long, annular-ringed; or 4d cooler nail,0.080? diameter, 13/8? long,□7/32? head.
	Wall	Either direction	16.0	8.0	16.0	
1/2	Ceiling	Either direction	16.0	7.0	12.0	13 gage, 13/8? long,□19/64? head; 0.098? diameter,11/4? long, annular-ringed; 5d cooler nail, 0.086?diameter, 15/8? long,□15/64? head; or gypsum board nail, 0.086? diameter, 1□5/8? long,□9/32? head.
	Ceiling (d)	Perpendicular	24.0	7.0	12.0	
	Wall	Either direction	24.0	8.0	12.0	
	Wall	Either direction	16.0	8.0	16.0	
5/8	Ceiling	Either direction	16.0	7.0	12.0	13 gage, 15/8? long,□19/64? head; 0.098? diameter,13/8? long, annular-ringed; 6d cooler nail,0.092? diameter, 17/8? long,□1/4? head; or gypsum board nail, 0.0915? diameter, 17/8? long,19/64? head.
	Ceiling	Perpendicular	24.0	7.0	12.0	
	Type X at garage ceiling beneath habitable rooms	Perpendicular	24.0	6.0	6.0	17/8? long 6d coated nails or equivalent drywallscrews. Screws shall comply withSection R702.3.5.1
	Wall	Either direction	24.0	8.0	12.0	13 gage, 15/8? long,□19/64? head; 0.098? diameter,13/8? long, annular-ringed; 6d cooler nail,0.092? diameter, 17/8? long,□1/4? head; or gypsum board nail, 0.0915? diameter, 17/8? long,19/64? head.
	Wall	Either direction	16.0	8.0	16.0	
Application with adhesive						
3/8	Ceiling (d)	Perpendicular	16.0	16.0	16.0	Same as above for□3/8? gypsum board and gypsum panel products.
	Wall	Either direction	16.0	16.0	24.0	
1/2□or□5/8	Ceiling	Either direction	16.0	16.0	16.0	Same as above for□1/2? and□5/8? gypsum boardand gypsum panel products, respectively.
	Ceiling (d)	Perpendicular	24.0	12.0	16.0	
	Wall	Either direction	24.0	16.0	24.0	
Two 3/8□layers	Ceiling	Perpendicular	16.0	16.0	16.0	Base ply nailed as above for□1/2? gypsum board and gypsum panel products; face ply installed with adhesive.
	Wall	Either direction	24.0	24.0	24.0	

For SI:□1 inch = 25.4 mm.

a.For application without adhesive, a pair of nails spaced not less than 2 inches apart or more than 21/2□inches apart shall be permitted to be used with the pair of nails spaced 12 inches on center.

b.Screws shall be in accordance with□Section R702.3.5.1. Screws for attaching gypsum board or gypsum panel products to structural insulated panels shall penetrate the wood structural panel facing not less than□7/16□inch.

c.Where cold-formed steel framing is used with a clinching design to receive nails by two edges of metal, the nails shall be not less than□5/8□inch longer than the gypsum board or gypsum panel product thickness and shall have ringed shanks. Where the cold-formed steel framing has a nailing groove formed to receive the nails, the nails shall have barbed shanks or be 5d, 131/2□gage, 15/8□inches long,□15/64-inch head for□1/2-inch gypsum board or gypsum panel product; and 6d, 13 gage, 17/8□inches long,□15/64-inch head for□5/8-inch gypsum board or gypsum panel product.

d.Three-eighths-inch-thick single-ply gypsum board or gypsum panel product shall not be used on a ceiling where a water-based textured finish is to be applied, or where it will be required to support insulation above a ceiling. On ceiling applications to receive a water-based texture material, either hand or spray applied, the gypsum board or gypsum panel product shall be applied perpendicular to framing. Where applying a water-based texture material, the minimum gypsum board thickness shall be increased from□3/8□inch to□1/2□inch for 16-inch on center framing, and from□1/2□inch to□5/8□inch for 24-inch on center framing or□1/2-inch sag-resistant gypsum ceiling board shall be used.

MINIMUM ROOF SHEATHING THICKNESS

Rafter/Truss Spacing 24 in. o.c.	ULTIMATE WIND SPEED 130 mph	140 mph	145 mph	150 mph	160 mph	170 mph	180 mph
Minimum Sheathing Thickness inches (Panel Span Rating) Exposure B	7/16(24/16)	7/16(24/16)	7/16(24/16)	15/32(32/16)	19/32(40/20)	19/32(40/20)	19/32(40/20)
Minimum Sheathing Thickness inches (Panel Span Rating) Exposure C	15/32(32/16)	19/32(40/20)	19/32(40/20)	19/32(40/20)	19/32(40/20)	19/32(40/20)	23/32(48/24)
Minimum Sheathing Thickness inches (Panel Span Rating) Exposure D	19/32(40/20)	19/32(40/20)	19/32(40/20)	19/32(40/20)	19/32(40/20)	23/32(48/24)	23/32(48/24)

VI. PRE-ENGINEERED WOOD TRUSSES

1. THIS SECTION DEFINES PRE-ENGINEERED, PREFABRICATED, METAL PLATE CONNECTED WOOD ROOF AND FLOOR TRUSSES AS "WOOD TRUSSES".
2. TRUSS LAYOUTS SHOWN ON PLANS ARE SCHEMATIC ONLY. TRUSS MANUFACTURER AND/OR ENGINEER SHALL BE RESPONSIBLE FOR THE DESIGN AND SPACING OF ALL TRUSSES AND SHALL SUBMIT SHOP DRAWINGS TO THE BUILDER FOR APPROVAL.
3. THE WOOD TRUSS MANUFACTURER MUST PARTICIPATE IN A CODE APPROVED THIRD PARTY QUALITY ASSURANCE PROGRAM SUCH AS THE TRUSS PLATE INSTITUTE'S "QUALITY CONTROL INSPECTION PROGRAM" OR EQUIVALENT.
4. WOOD TRUSS MEMBERS AND CONNECTIONS SHALL BE DESIGNED FOR ALL LOADS SHOWN ON THE CONTRACT DOCUMENTS INCLUDING: LIVE, DEAD, AND CONCENTRATED LOADS, PLUS WIND LOADS.
5. REFER TO THE FLOOR PLAN AND OTHER STRUCTURAL DETAIL SHEETS FOR IMPORTANT INFORMATION NOT SPECIFICALLY ADDRESSED BY THE TRUSS FRAMING LAYOUT SUCH AS BEARING WALL HEIGHTS AND CEILING VAULT DETAILS.
6. WOOD TRUSS DESIGN SHOP DRAWINGS SHALL INCLUDE, BUT ARE NOT LIMITED TO,THE FOLLOWING INFORMATION:
   a. SPAN LENGTH, OVERHANG AND EAVE DIMENSIONS, SLOPE AND SPACING OF THE WOOD TRUSSES.
   b. ALL DESIGN LOADS AND THEIR POINTS OF APPLICATION, VALLEY AND CONVENTIONAL FRAMING MUST BE CONSIDERED.
   c. ADJUSTMENTS TO ALLOWABLE VALUES.
   d. REACTIVATE FORCES AND THEIR LOCATIONS.
   e. BEARING TYPE AND MINIMUM BEARING LENGTH.
   f. DEFLECTIONS.
   g. METAL CONNECTOR PLATE TYPE, GAUGE, SIZE, AND LOCATION.
   h. LUMBER SIZE, SPECIES, GRADE AND MOISTURE CONTENT.
   i. LOCATION AND CONNECTION DESIGN OF REQUIRED CONTINUOUS LATERAL BRACING.
   j. NET UPLIFT LOADS BASED ON ACTUAL BUILDING DEAD LOAD.
   k. WEB REINFORCEMENT DETAILS FOR GABLE END TRUSSES.
   l. VALLEY SETS FOR OVER-BUILD CONDITIONS.
1. LIMIT DEFLECTIONS FOR LIVE LOAD TO SPAN/360 (ROOF), SPAN/480 (FLOOR), AND LIMIT TOTAL LOAD DEFLECTIONS TO SPAN/240 (ROOF), SPAN/360 (FLOOR) UNLESS SPECIFICALLY NOTED OTHERWISE.
2. FIRE RETARDANT WOOD IS NOT ALLOWABLE FOR USE AS TRUSS CHORDS OR WEBS.
3. WOOD TRUSSES SHALL BE DESIGNED SO THAT MINIMAL HORIZONTAL REACTIONS ARE IMPOSED ON THE SUPPORTING STRUCTURE UNDER VERTICAL LOADS. NO SLIP CONNECTIONS ARE ALLOWED UNLESS OTHERWISE NOTED. CONTACT CONTRACTOR AS REQUIRED.
4. WOOD TRUSSES MUST BE CHECKED FOR WIND. WIND VELOCITY, DESIGN VELOCITY PRESSURES, AND MEAN ROOF HEIGHT MUST BE SHOWN ON THE SUBMITTED SHOP DRAWINGS.
5. CONTINUOUS BOTTOM CHORD LATERAL BRACING IS REQUIRED AT A MINIMUM SPACING OF 10' O.C. UNLESS NOTED OTHERWISE. BOTTOM CHORD BRACING IS CONTINUOUS FROM ONE END OF THE BUILDING TO THE OTHER END. OVERLAP CONTINUOUS BRACING AT LEAST ONE TRUSS SPACE. USE A MINIMUM OF 2X4 (ROOF), 2X6 (FLOOR) GRADE MARKED LUMBER AT LEAST 10' LONG, WITH 2-16d NAILS AT INTERMEDIATE AND 3-16d NAILS AT END CONNECTIONS.
6. CROSS BRACING IS REQUIRED AT MINIMUM 10' O.C. UNLESS NOTED OTHERWISE. LOCATE CROSS BRACING AT OR NEAR THE BOTTOM CHORD BRACING. INSTALL CROSS BRACING AT EACH END AND AT 20' O.C. ALONG THE LENGTH OF THE LATERAL BRACING. CROS BRACING IS ACCOMPLISHED BY ATTACHING DIAGONAL WEB BRACING TO OPPOSITE SIDES OF THE SAME GROUP OF SIMILAR WEB MEMBERS. SLOPE CROSS BRACING IN OPPOSITE DIRECTIONS AT APPROXIMATELY 45 DEGREES FORMING A CROSS "X". USE A MINIMUM OF 2X4 GRADE MARKED LUMBER WITH AT LEAST 3-16d NAILS AT EACH CONNECTION.
7. TRUSS ERECTOR IS RESPONSIBLE FOR ALL TEMPORARY BRACING OF TRUSS SYSTEM DURING CONSTRUCTION.
8. HANDLING, INSTALLATION, AND BRACING OF WOOD TRUSSES SHALL BE IN ACCORDANCE WITH "HIB-91", PUBLISHED BY THE TRUSS PLATE INSTITUTE.
9. ALL WOOD TRUSSES SHALL BE FASTENED TO THEIR SUPPORTS WITH APPROVED HURRICANE ANCHORS, RATED TO CARRY UPLIFT LOADS SPECIFIED BY TRUSS MANUFACTURER.
10. ALL CONNECTION HARDWARE SHALL BE GALVANIZED AND SUPPLIED BY SIMPSON STRONG-TIE, OR APPROVED EQUIVALENT MANUFACTURER. ALL NAIL HOLES SHOULD BE FILLED, OR AS PRESCRIBED BY THE MANUFACTURER.
11. TRUSSES ARE TO BE DESIGNED TO ALLOW FOR THE PROPER ROUTING OF A/C DUCT WORK AND PLUMBING. CHASES SHALL NOT BE BLOCKED BY WOOD TRUSSES.
12. PILING OF PLYWOOD ON WOOD TRUSSES IS NOT ALLOWED.
13. INSTALLATION OF BROKEN, DAMAGED, WARPED, OR IMPROPERLY REPAIRED WOOD TRUSSES IS NOT ALLOWED.
14. IMPROPER OR UNAUTHORIZED FIELD ALTERATIONS OF WOOD TRUSSES IS NOT ALLOWED.
15. GABLE ENDWALL TRUSSES MUST TRANSFER LATERAL LOADS TO THE SHEAR WALLS AND/OR THE ROOF DIAPHRAGM.
16. WOOD TRUSSES THAT DO NOT MEET INTERIOR LOAD BEARING WALLS MUST BE SHIMMED. DO NOT PULL WOOD TRUSSES DOWN TO INTERIOR BEARINGS.
17. SUBMITTALS: ALL SUBMITTALS SHALL BEAR THE EMBOSSED SEAL OF A LICENSED STRUCTURAL ENGINEER IN THE STATE OF FLORIDA AND SHALL BE SUBMITTED TO CONTRACTOR FOR REVIEW PRIOR TO WOOD TRUSS FABRICATION.
   a. SUBMIT SEALED WOOD TRUSS DESIGN CALCULATIONS AND PROFILES FOR EACH TYPE OF TRUSS WITH PERMANENT BRIDGING REQUIREMENTS.
   b. SUBMIT WOOD TRUSS ERECTION PLAN, INCLUDING CONNECTION DETAILS AND UPLIFT ANCHORS.
   c. SUBMIT WOOD TRUSS TEMPORARY ERECTION BRACING PLAN.
   d. MAINTAIN COPY OF SUBMITTAL ON JOBSITE.

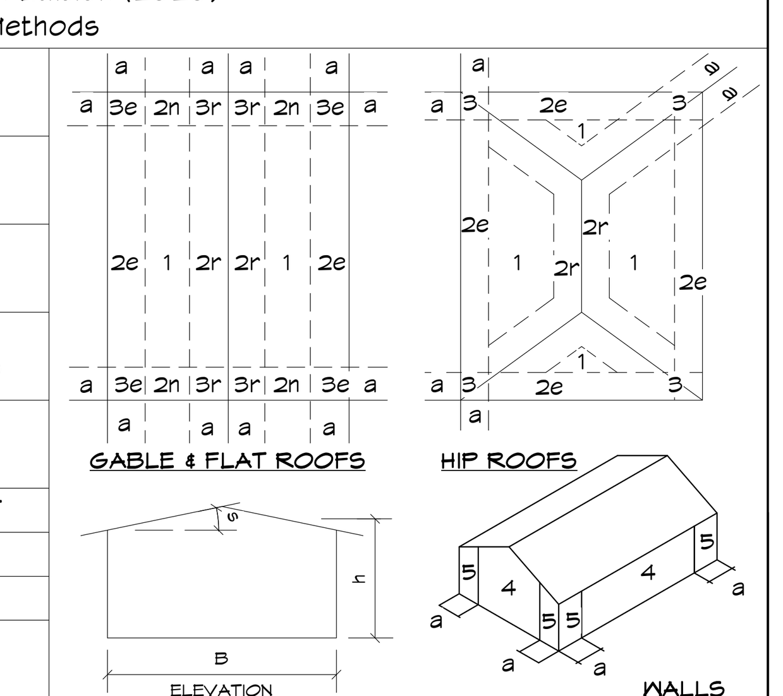
WOOD FRAMED BEARING WALL HEADERS FOR MAXIMUM TWO STORY SINGLE FAMILY HOMES

OPENING SIZE	HEADER SIZE 2X4 WALLS	2X6 WALLS	2X8 WALLS
LESS THAN 5'-0"	(2) 2"X8"	(3) 2"X8"	(4) 2"X8"
5'-0" TO 8"-0"	(2) 2"X10"	(3) 2"X10"	(4) 2"X10"
8'-0" TO 12"-0"	(2) 2"X12"	(3) 2"X12"	(4) 2"X12"
12'-0" TO 18"-0"	(2) 1-3/4" WIDE BY 11-7/8" DEEP LVL OR MICROLAM	(3) 1-3/4" WIDE BY 11-7/8" DEEP LVL OR MICROLAM	(4) 1-3/4" WIDE BY 11-7/8" DEEP LVL OR MICROLAM
MORE THAN 18'-0"	REFER TO FRAMING PLANS		

- THESE HEADERS SHOULD BE USED FOR MOST CONDITIONS - REFER TO FRAMING PLAN FOR SPECIFIC SIZE OF HEADERS FOR SPECIAL LOAD CONDITIONS
- USE 1/2" CDX PLYWOOD FLITCH PLATE BETWEEN HEADER PLIES TO FILL THE REQUIRED GAPS

WIND LOADS - DESIGN PRESSURES
Florida Building Code 7th Edition (2020) and ASCE 7-16 Methods

ULTIMATE WIND SPEED (MPH)	145	
EXPOSURE CATEGORY	B	
BUILDING RISK CATEGORY	II	
ROOF SLOPE (s)	20 to 27 degrees (4-1/2 : 12 to 6 : 12 pitch)	
INTERNAL PRESSURE COEFFICIENT	0.18 ENCLOSED	
TOPOGRAPHICAL FACTOR	1.0	FLAT
MAXIMUM BUILDING HEIGHT (h)	40	FT
WIDTH OF EDGE STRIPS (a)	10	FT
OPENING PROTECTION REQUIRED?	YES	



Area of C&C (SF)	GABLE END ROOFS ZONES 1, 2e Positive	Negative	ZONES 2n, 2r, 3e Positive	Negative	ZONE 3r Positive	Negative	WALLS ZONE 4 Positive	Negative	ZONE 5 Positive	Negative
10	17.0	-32.4	17.0	-51.6	17.0	-61.2	22.8	-24.6	22.8	-30.4
20	14.6	-32.4	14.6	-45.3	14.6	-51.6	21.7	-23.6	21.7	-28.4
50	11.6	-27.5	11.6	-36.8	11.6	-38.2	20.4	-22.3	20.4	-25.7
100	10.0	-23.7	10.0	-30.4	10.0	-38.2	19.3	-21.3	19.3	-23.6
500							17.0	-18.9	17.0	-18.9

C&C DESIGN PRESSURE (PSF) GABLE END ROOFS - ASD

C&C DESIGN PRESSURE (PSF) HIP ROOFS - ASD

Area of C&C (SF)	ZONE 1		ZONES 2e, 2r, 3		Garage Doors Positive	Garage Doors Negative
	Positive	Negative	Positive	Negative	19.9	-22.5
10	17.0	-30.4	17.0	-42.0		
20	14.6	-27.0	14.6	-37.5		
50	11.6	-22.4	11.6	-31.6		
100	10.0	-18.9	10.0	-27.2		

VII. PROTECTION AGAINST TERMITES

1. Termite Protection. Termite protection shall be pro-vided 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 a preventative treatment to new construction. See Section 202,REGISTERED TERMITICIDE. 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 prevention of subterranean termites. Treatment is in accordance with rules and laws established by the Florida Department of Agriculture and Consumer Services."
   a. If soil treatment used for subterranean termite prevention, the initial chemical soil treatment inside the foundation perimeter shall be done after all excavation, backfilling and compaction is complete.
   b. If soil treatment is used for subterranean termite prevention, soil area disturbed after initial chemical soil treatment shall be retreated with a chemical soil treatment, including spaces boxed or formed.
   c. If soil treatment is used for subterranean termite prevention, space in concrete floors boxed out or formed for the subsequent installation of plumbing traps, drains or any other purpose shall be created by using plastic or metal permanently placed forms of sufficient depth to eliminate any planned soil disturbance after initial chemical soil treat-ment.
   d. If soil treatment is used for subterranean termite prevention, chemically treated soil shall be protected with a minimum 6 mil vapor retarder to protect against rainfall dilution. If rainfall occurs before vapor retarder placement, retreatment is required. Any work, including placement of reinforcing steel, done after chemical treatment until the concrete floor is poured, shall be done in such manner as to avoid penetrating or disturbing treated soil.
   e. If soil treatment is used for subterranean termite prevention, concrete overpour or mortar accumulated along the exterior foundation perimeter shall be removed prior to exterior chemical soil treatment, to enhance vertical penetration of the chemicals.
   f. If soil treatment is used for subterranean termite prevention, chemical soil treatments shall also be applied under all exterior concrete or grade within 1 foot (305 mm)of the primary structure sidewalls. Also, a vertical chemical barrier shall be applied promptly after construction is completed, including initial landscaping and irrigation/sprinkler installation. Any soil disturbed after the chemical vertical barrier is applied shall be promptly retreated.
   g. If a registered termiticide formulated and registered as a bait system is used for subterranean termite prevention, Previous paragraphs do not apply; however, a signed contract assuring the installation, maintenance and monitoring of the baiting system for a minimum of five years from the issue of the Certificate of Occupancy shall be provided to the building official prior to the pouring of the slab, and the system must be installed prior to final building approval.
   h. If the baiting system directions for use require a monitoring phase prior to installation of the pesticide active ingredient, the installation of the monitoring phase components shall be deemed to constitute installation of the system.
   i. If a registered termiticide formulated and registered as a wood treatment is used for subterranean termite prevention, Previous paragraphs do not apply. Application of the wood treatment termiticide shall be as required by label directions for use, and must be completed prior to final building approval.
2. Penetration. Protective sleeves around piping penetrating concrete slab-on-grade floors shall not be of cellulose-containing materials. If soil treatment is used for subterranean termite protection, the sleeve shall have a maxi-mum wall thickness of 0.010 inch (0.25 mm), and be sealed within the slab using a non-corrosive clamping device to eliminate the annular space between the pipe and the sleeve. No termiticides shall be applied inside the sleeve.
3. Cleaning. Cells and cavities in masonry units and airgaps between brick, stone or masonry veneers and the structure shall be cleaned of all non-preservative treated or non-naturally durable wood, or other cellulose-containing material prior to concrete placement.
   a. Exception: Inorganic material manufactured for closing cells in foundation concrete masonry unit construction or clean earth fill placed in concrete masonry unit voids below slab level before termite treatment is performed.
4. Concrete bearing ledge. Brick, stone or other veneer shall be supported by a concrete bearing ledge at least equal to the total thickness of the brick, stone or other veneer which is poured integrally with the concrete foundation. No supplemental concrete foundation pours which will create a hidden cold joint shall be used without supplemental treatment in the foundation unless there is an approved physical barrier. An approved physical barrier shall also be installed from below the wall sill plate or first block course horizontally to embed in a mortar joint. If masonry veneer extends below grade, a termite protective treatment must be applied to the cavity created between the veneer and the foundation, in lieu of a physical barrier.
   a. Exception: Veneer supported by a structural member secured to the foundation sidewall in accordance with ACI530/ASCE 5/TMS 402, provided at least a 6 inch (152 mm) clear inspection space of the foundation sidewall exterior exist between the veneer and the top of any soil, sod, mulch or other organic landscaping component, deck, apron, porch, walk or any other work immediately adjacent to or adjoining the structure.
5. Protection against decay and termites. Condensate lines, irrigation/sprinkler system risers for spray heads, and roof downspouts shall discharge at least 1 foot (305 mm) away from the structure sidewall, whether by underground piping, tail extensions or splash blocks. Gutters with downspouts are required on all buildings with eaves of less than 6 inches (152mm) horizontal projection except for gable end rakes or on a roof above another roof.
6. Preparation of building site and removal of debris.
   a. All building sites shall be graded to provide drain-age under all portions of the building not occupied by basements.
   b. The foundation and the area encompassed within1 foot (305 mm) therein shall have all vegetation, stumps, dead roots, cardboard, trash and foreign material removed and the fill material shall be free of vegetation and foreign material. The fill shall be compacted to assure adequate support of the foundation.
   c. After all work is completed, loose wood and debris shall be completely removed from under the building and within 1 foot (305 mm) thereof. All wood forms and supports shall be completely removed. This includes, but is not limited to: wooden grade stakes, forms, contraction spacers, tub trap boxes, plumbing supports, bracing, shoring, forms or other cellulose-containing material placed in any location where such materials are not clearly visible and readily removable prior to completion of the work. Woodshall not be stored in contact with the ground under any building.

STRUCTURAL PRODUCT APPROVALS

APPLICATION	REFERENCE	FL APPROVAL NO.
CAPS AND BASES	ABU	10860.2
	CC	10860.8
	ECC	10860.8
	EPC	10860.2
	PC	10860.2
CONCRETE/MASONRY CONNECTORS	FGTR	11473.2
	HD	11496.2
	HDQ8	10441.3
	HETA	11473.4
	HGA10 LGT	10446.2
	HGAM	11473.6
	HGT	10456.8
	HGUM	13904.3
	HHDQ	10441.3
	HHETA	11473.7
	HM	11473.6
	HTSM	11473.1
	HTT	11496.4
	LGUM	13904.4
	LTT	11496.5
	META	11473.10
	MGT	10456.2
	MSTAM	11473.1
	MSTCM	11473.1
	MTSM	11473.1
	VGT	10456.4
HANGERS	HGU	10531.3
	HGUS	10531.4
	HHGU	10531.5
	HHUS	10531.6
	HU	10531.9
	HUC	10531.9
	HUCQ	10531.10
	HUS	10531.1
	LU	10531.1
	LUS	10531.2
	MEG	10667.2
	MGU	10531.2
	THA	10447.1
	WP	10667.3
STRAPS AND TIES	A	10446.1
	CMST	10456.2
	CS	10456.3
	H	10456.7
	HGA	10446.2
	HTS	10456.11
	LSTA	10456.2
	MST	10456.2'0
	MSTC	10456.2
	MSTI	10456.2
	SP	10456.30
	SPH	10456.3
	Z	10446.4
PRECAST LINTELS	CAST-CRETE	158.1
	POWERS STEEL	3119.1

INTEGRAL ENGINEERING, INC.
16704 Tobacco Road, Lutz, FL 33558
Phone: (813) 908-0402 | Fax: (813) 969-0206 | EB # 8253

I HEREBY CERTIFY THAT, AS A STRUCTURAL ENGINEER, I HAVE REVIEWED THIS DESIGN AND FOUND IT TO BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE, 7th EDITION, 2020.

SIGNED AND SEALED FOR THE STRUCTURAL ENGINEERING PORTION OF THIS DRAWING ONLY TO ENSURE THAT THE PLANNED STRUCTURE WILL BE SUFFICIENTLY STRONG TO CARRY ITS INTENDED GRAVITY, LATERAL AND UPLIFT LOADS. STRUCTURAL INCLUDES DESIGN OF LOAD BEARING ELEMENTS.

ARCHITECTURAL, WATER INTRUSION PROTECTION, MECHANICAL, ELECTRICAL, FIRE PROTECTION, EGRESS, ACCESSIBILITY, ENERGY CONSERVATION, FUEL GAS, STUCCO APPLICATION, & PLUMBING DESIGN INCLUDED IN THIS DRAWING ARE INCIDENTAL AND/OR FOR INFORMATION PURPOSES ONLY AND THEIR DESIGN SHALL NOT BE THE STRUCTURAL ENGINEER RESPONSIBILITY.

THIS DRAWING IS VALID FOR 12 MONTHS AFTER THE DATE IT IS SIGNED & SEALED.

LUIS CARLOS CORREA LICENSE No 49018 STATE OF FLORIDA PROFESSIONAL ENGINEER

10/29/2021

LUIS C. CORREA, FL P.E., S.I. #49018

REVISIONS

No.	DESCRIPTION	DATE

Client

MOBLEY CUSTOM HOMES

SINGLE FAMILY HOMES

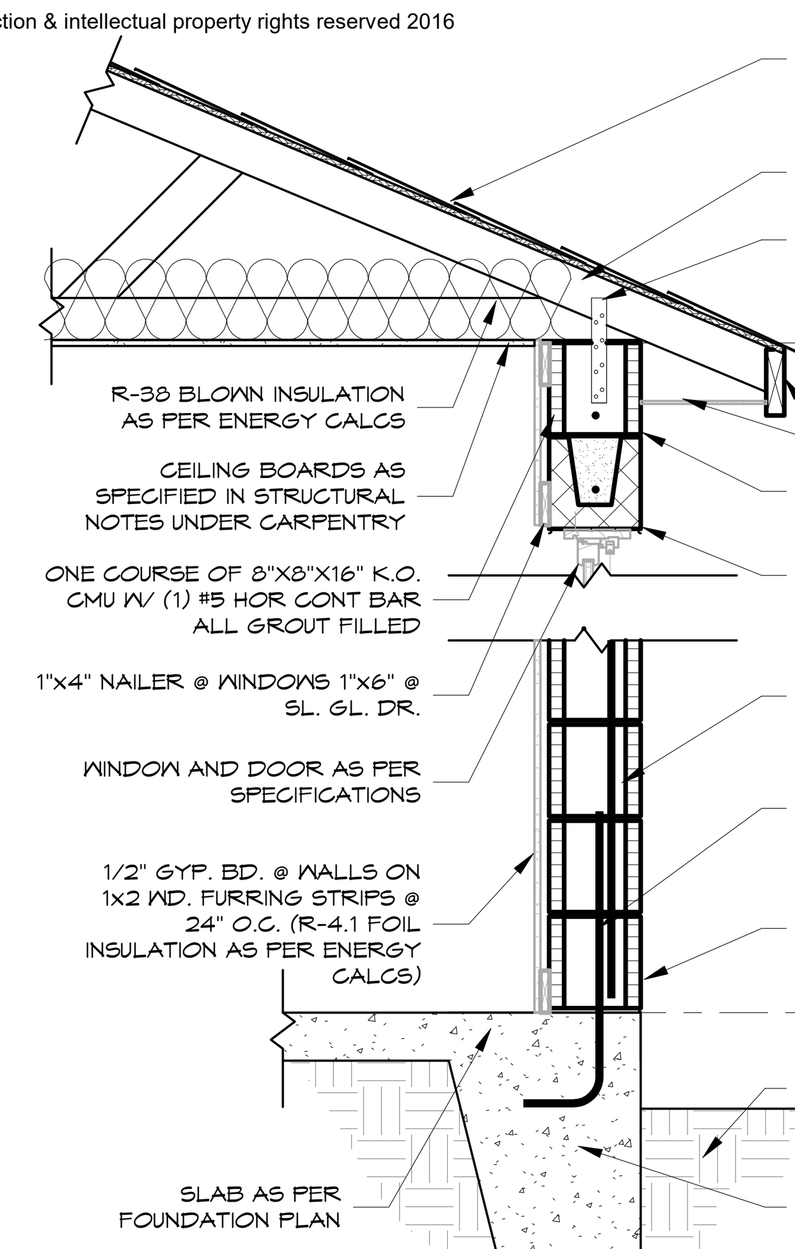
ALL MODELS IIN 145 MPH EXPOSURE B
FLORIDA

JOB NO: SD PROJ MGR: LCC
DRAWN: LCC CHECKED:

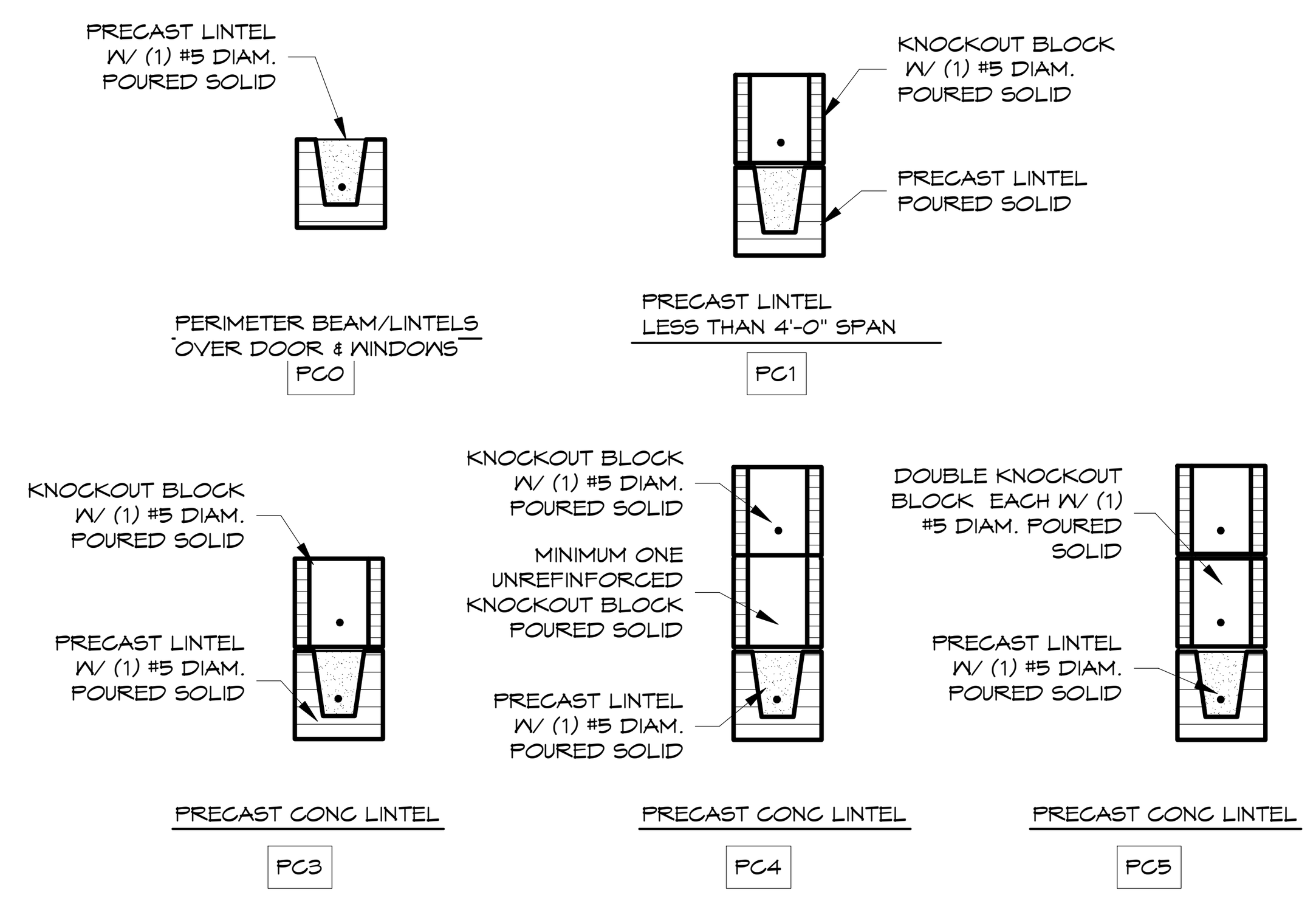
STRUCTURAL SPECIFICATIONS

PERMIT DOCUMENTS

SD1



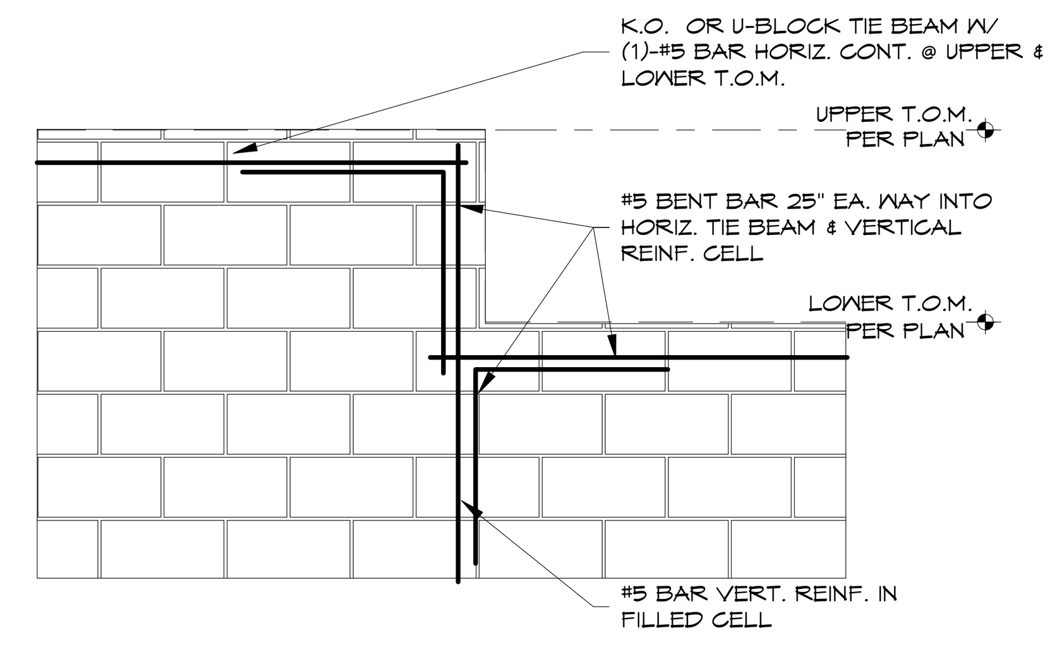
1 / SD2 TYP ONE STORY WALL SECTION - ONE STORY
N.T.S.



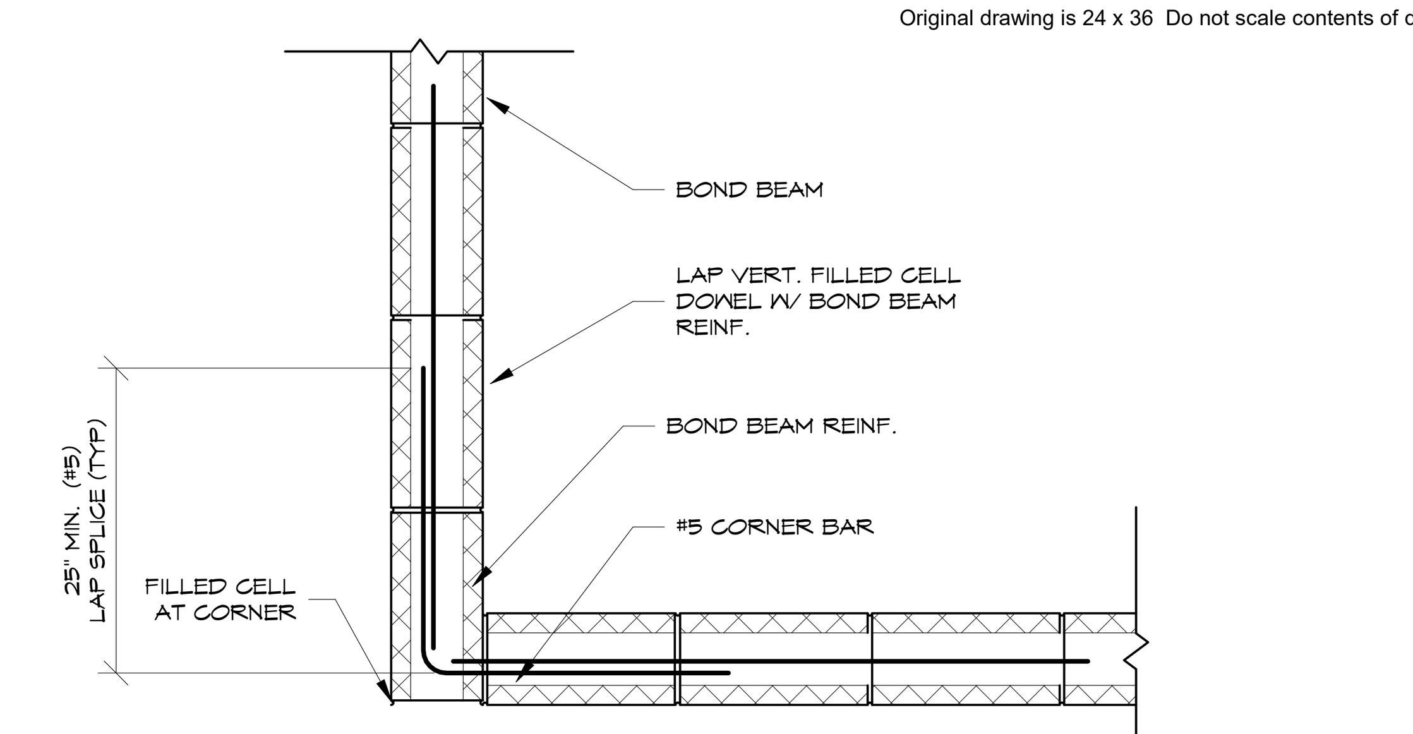
NOTE: PRECAST LINTELS SHALL BE "CAST CRETE" (PA# FL158-R8) OR EQUAL. USE PRE-STRESSED PRECAST LINTEL FOR SPANS GREATER THAN 14'-4"

THE K.O. BLOCK ABOVE THE LINTEL IS THE MINIMUM REQUIRED. ADDITIONAL GROUT FILLED CMU BLOCKS CAN BE INSTALLED BETWEEN THE K.O. BLOCK AND THE LINTEL FOR HIGH REQUIREMENTS. THE K.O. BLOCK ABOVE CAN BE THE SAME AS THE WALL TIE BEAM.

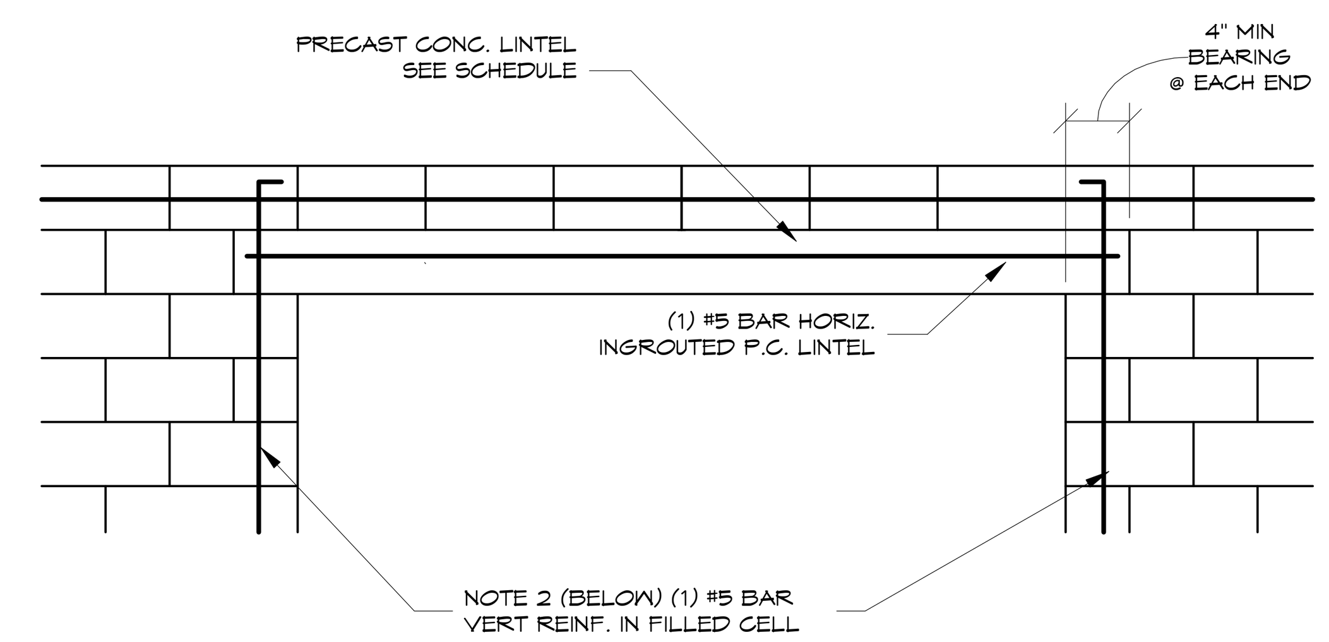
2 / SD2 LINTEL ASSEMBLY SCHEDULE
N.T.S.



3 / SD2 STEPPED MASONRY TIE BEAM
N.T.S.



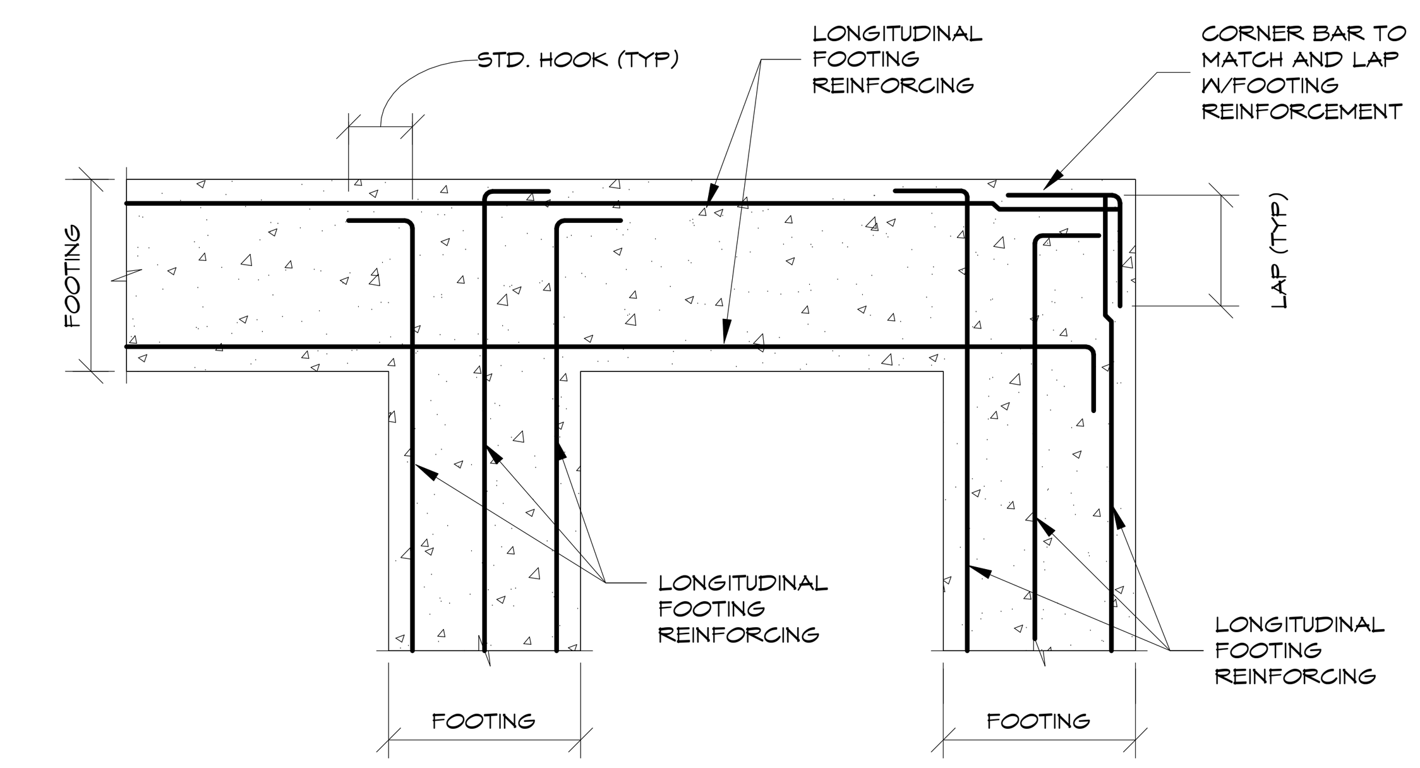
4 / SD2 TIE BEAM REINF. @ CORNERS
N.T.S.



NOTE:

1. EACH JAMB OPENING TO BE REINFORCED W/ (1) #5 BAR VERT. IN CONC. FILLED CELL
2. PRECAST LINTEL FOR OPENING GREATER THAN OR EQUAL TO 6'-0" TO HAVE #5 BENT BARS INTO JAMBS AS SHOWN
3. PRECAST LINTELS SHALL BE "CAST CRETE" OR EQUAL.

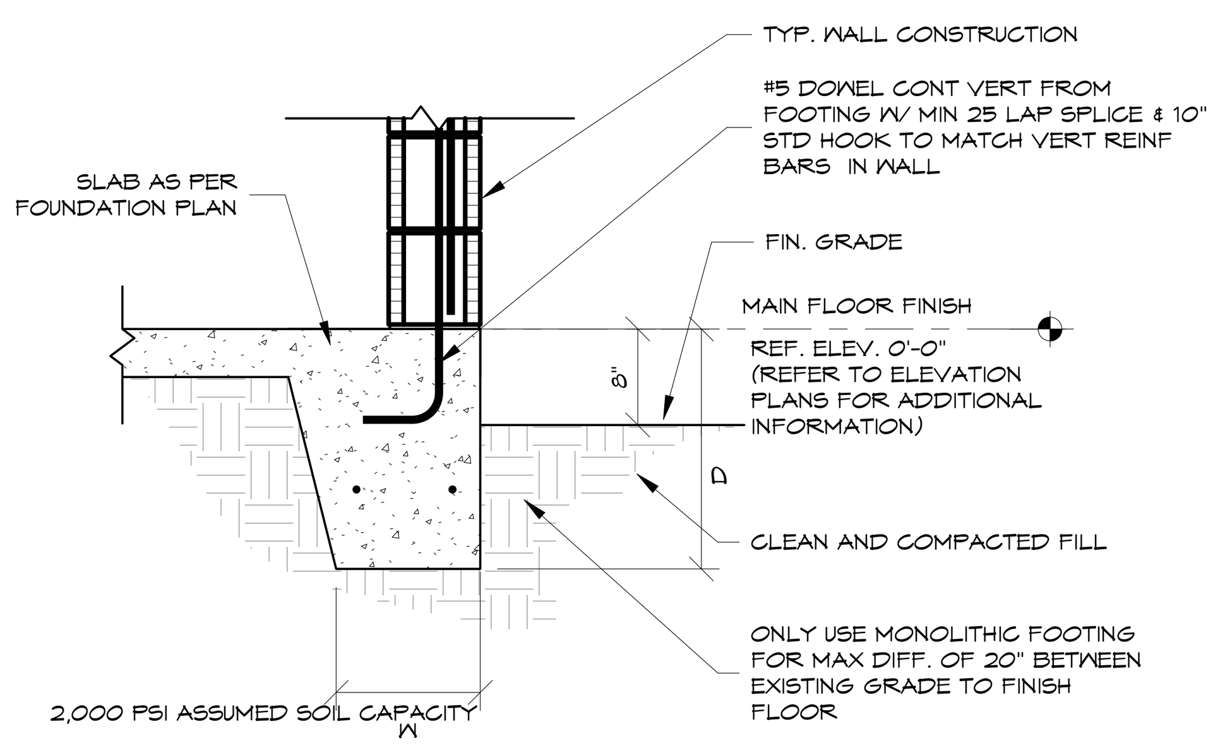
7 / SD2 TYP PRECAST LINTEL
N.T.S.



NOTE:

SEE PLANS AND SCHEDULE FOR FOOTING SIZE AND REINFORCING

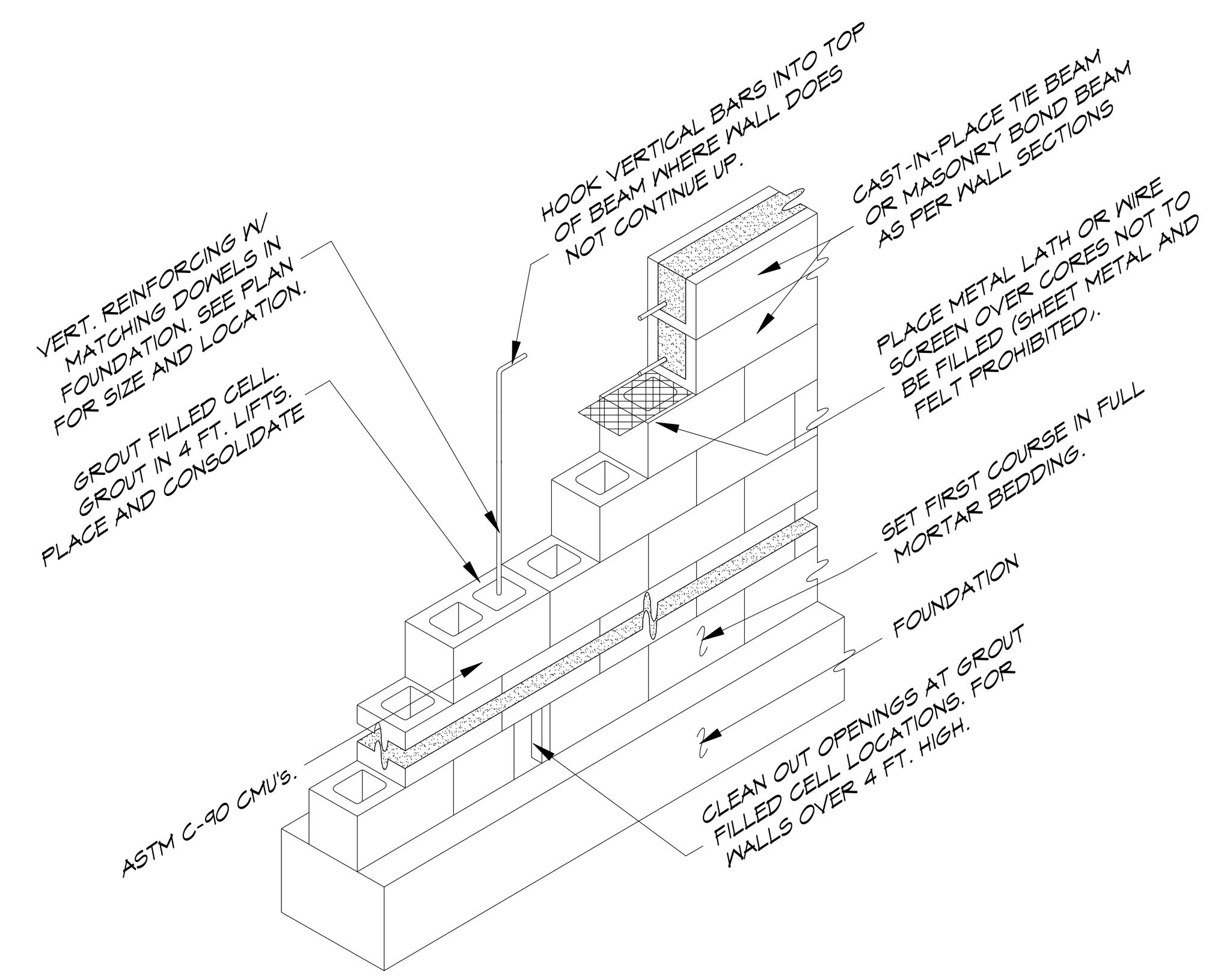
8 / SD2 TYP FOOTING REINFORCING AT CORNERS
N.T.S.



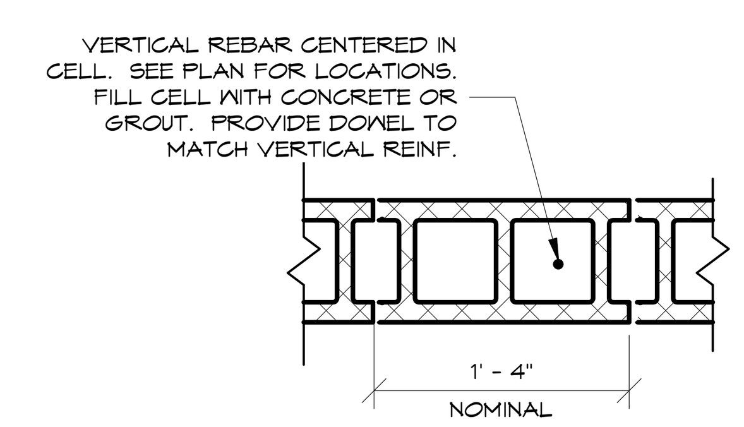
MONOLITHIC FOOTING DIMENSION & REINF.

HEIGHT	WIDTH	DEPTH	#5 REINFORCEMENT (HOR)
ONE STORY	12"	20"	(2)
TWO STORIES	20"	20"	(3)

10 / SD2 TYP MONOLITHIC FOUNDATION - EXTERIOR
N.T.S.



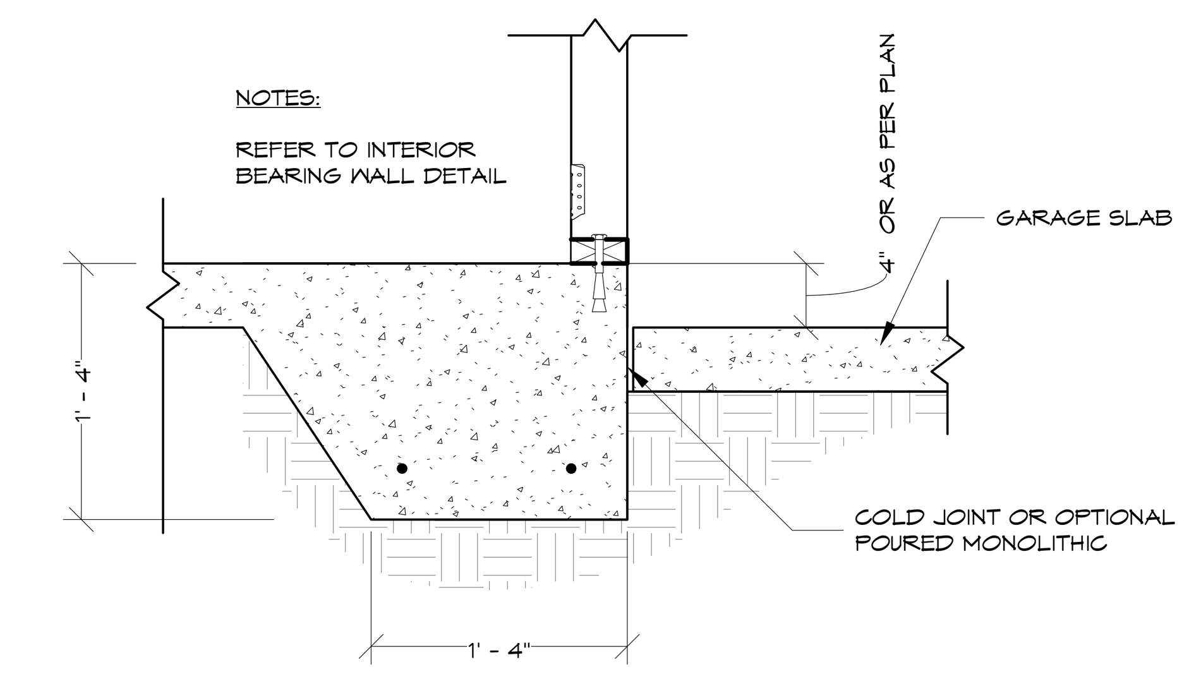
6 / SD2 TYP MASONRY WALL CONSTRUCTION
N.T.S.



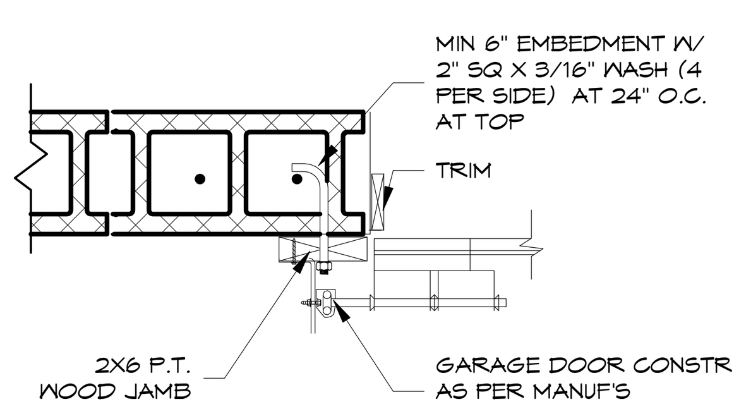
NOTE:

- REMOVE ALL PROTRUSIONS EXTENDING 1/2" OR MORE INTO CELLS OR CAVITIES TO BE GROUTED.
- SPACES TO BE GROUTED SHALL BE FREE OR MORTAR DROPPINGS, DEBRIS, LOOSE AGGREGATES & ANY MATERIAL DELETERIOUS TO MASONRY GROUT.

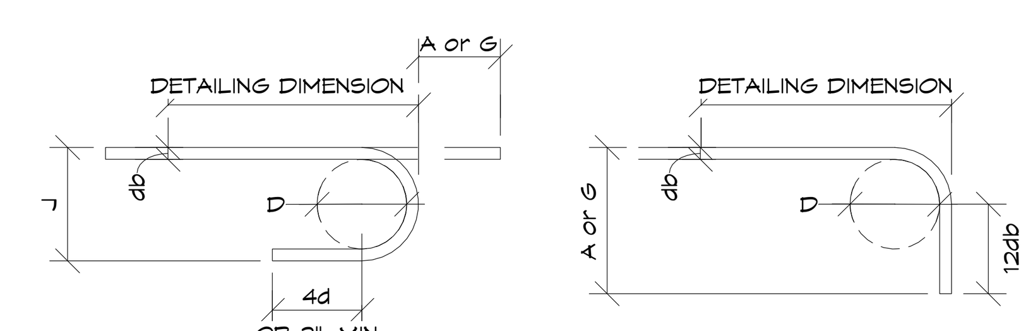
9 / SD2 TYP VERT FILLED CELL MASONRY REINF.
N.T.S.



STEP DOWN AT MONOLITHIC FTG

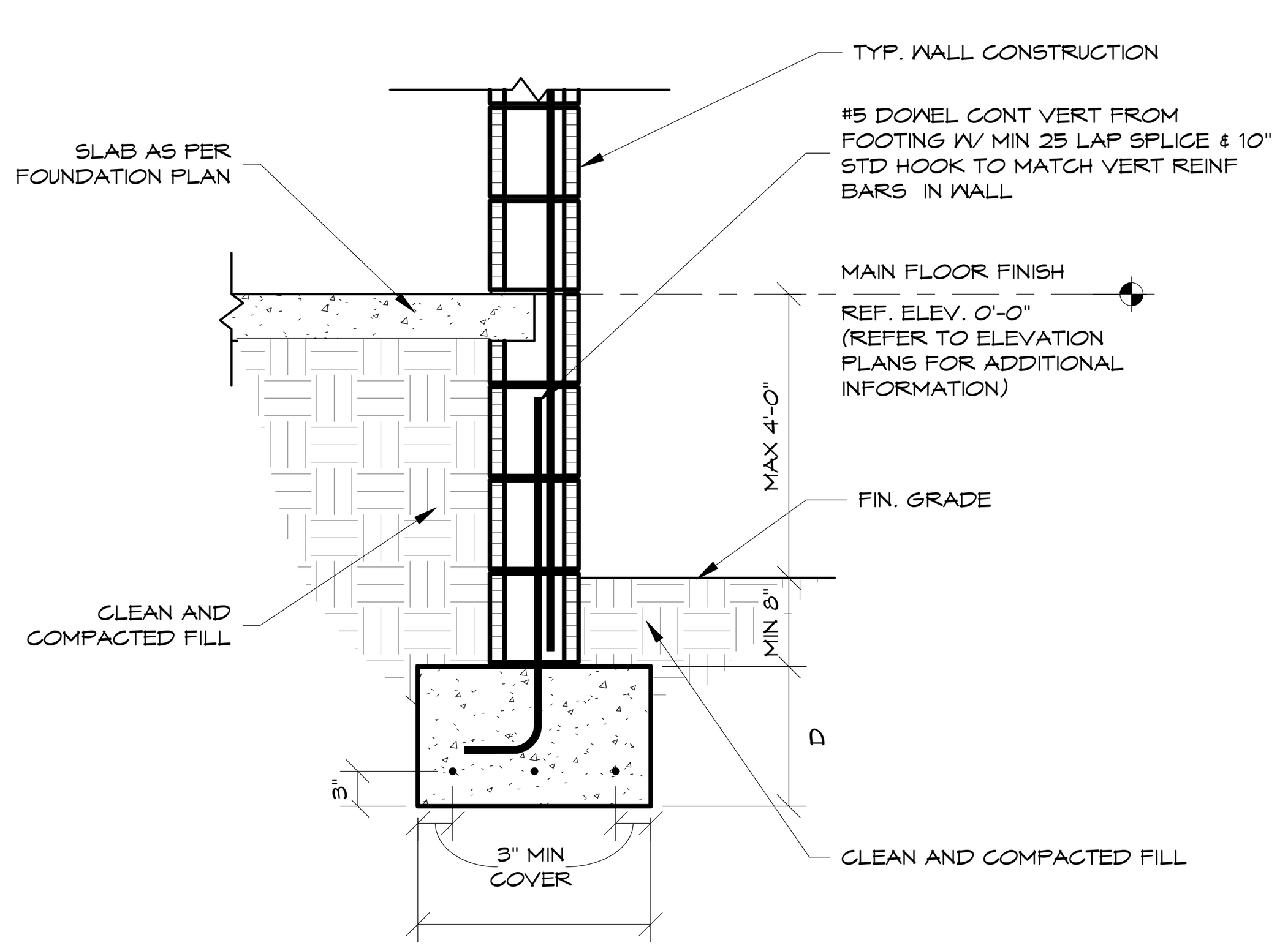


11 / SD2 GARAGE DOOR ATTACHMENT
N.T.S.



BAR SIZE (db)	180 DEG. HOOK			90 DEG. HOOK	
	A or G	J	D	A or G	D
#3	5"	3"	2 1/4"	6"	2 1/4"
#4	6"	4"	3"	8"	3"
#5	7"	5"	3 3/4"	10"	3 3/4"
#6	8"	6"	4 1/2"	12"	4 1/2"
#7	10"	7"	5 1/4"	14"	5 1/4"

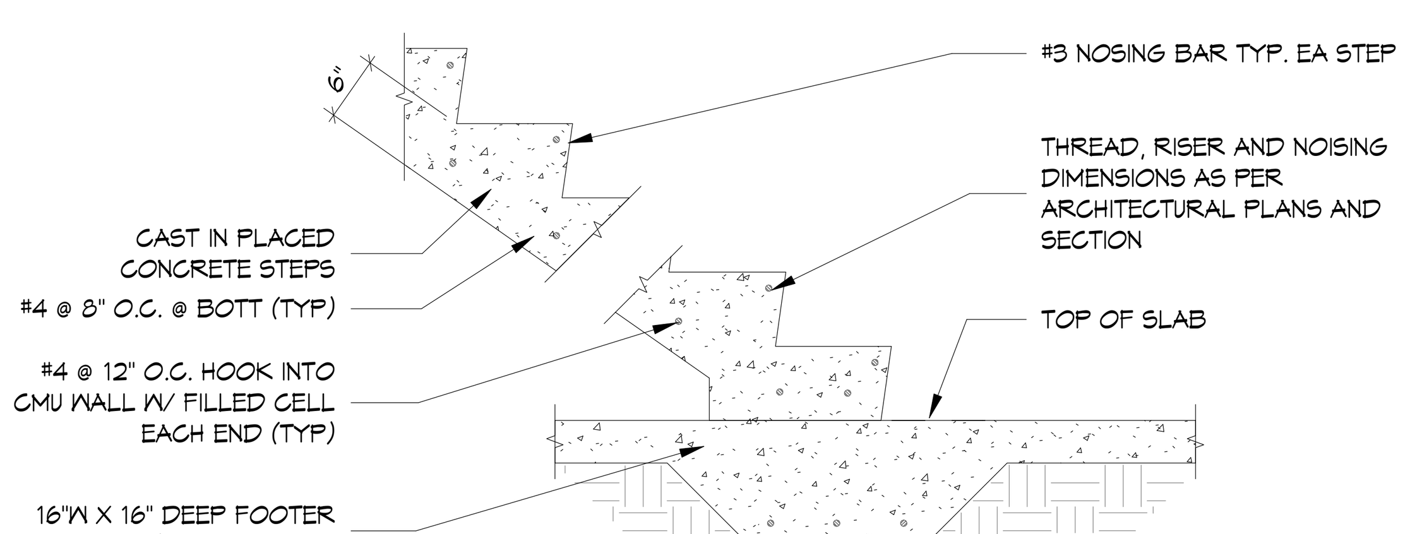
12 / SD2 STANDARD HOOK SCHEDULE
N.T.S.



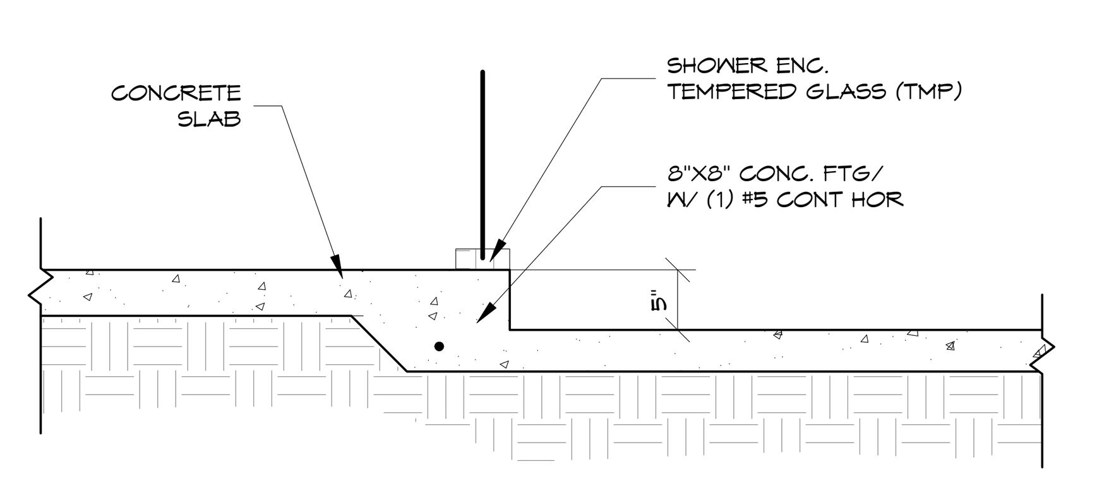
STEMWALL FOOTING DIMENSION & REINF.

WALL HEIGHT	W	D	No. OF #5 CONT. BARS
ONE STORY	16"	10"	(2)
TWO STORIES	20"	12"	(3)

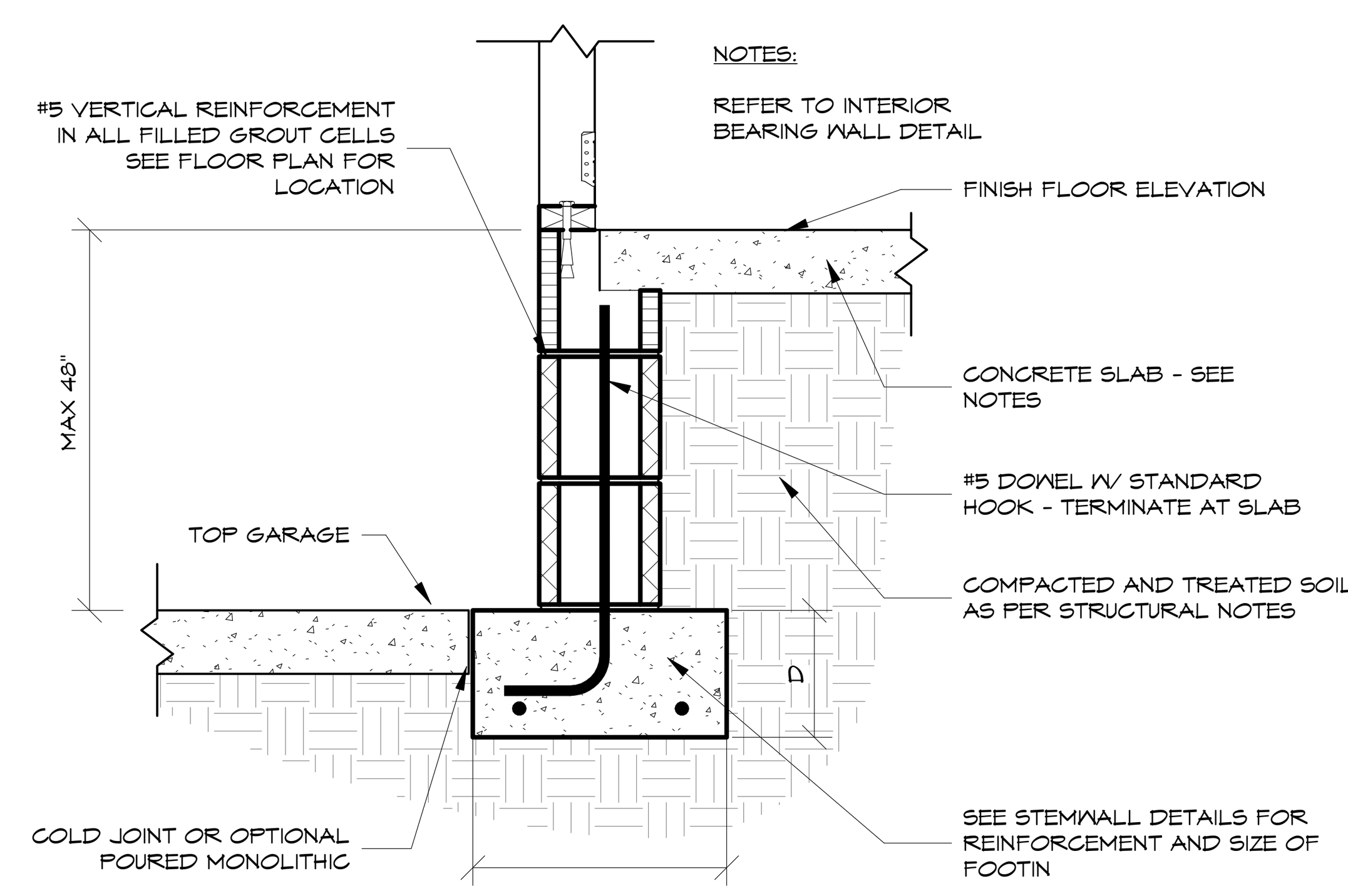
5 / SD2 TYP STEMWALL FOOTING - EXTERIOR
N.T.S.



13 / SD2 CONCRETE STAIRS
N.T.S.



15 / SD2 SLAB RECESS SECTION AT SHOWER
N.T.S.



STEP DOWN AT STEMWALL FTG

14 / SD2 GARAGE STEP DOWN SECTION
N.T.S.

PERMIT DOCUMENTS

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ARCHITECTURAL, WATER INTRUSION PROTECTION, MECHANICAL, ELECTRICAL, FIRE PROTECTION, EGRESS, ACCESSIBILITY, ENERGY CONSERVATION, FUEL GAS, STUCCO APPLICATION, & PLUMBING DESIGN INCLUDED IN THIS DRAWING ARE INCIDENTAL AND/OR FOR INFORMATION PURPOSES ONLY AND THEIR DESIGN SHALL NOT BE THE STRUCTURAL ENGINEER RESPONSIBILITY.

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LUIS CARLOS CORREA ★ LICENSE ★ No 49018 ★ STATE OF FLORIDA ★ PROFESSIONAL ENGINEER

11/16/2021

LUIS C. CORREA, FL P.E., S.I. #49018

REVISIONS

No.	DESCRIPTION	DATE

Client
MOBLEY CUSTOM HOMES

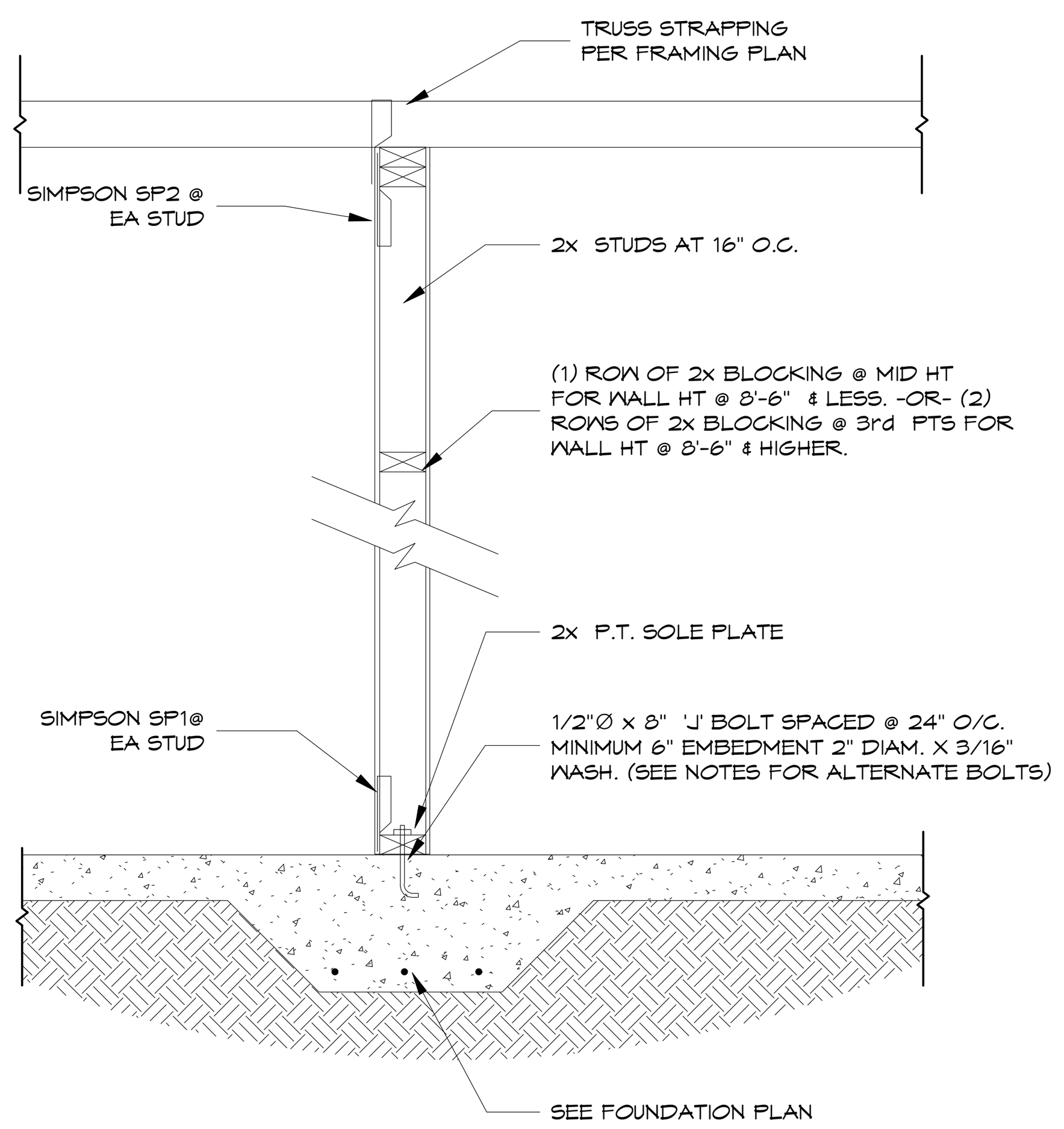
SINGLE FAMILY HOME AT
TYPICAL ALL MODELS
FLORIDA - 145 MPH EXP B

JOB NO: 50 PROJ MGR: LCC
DRAWN: LCC CHECKED:

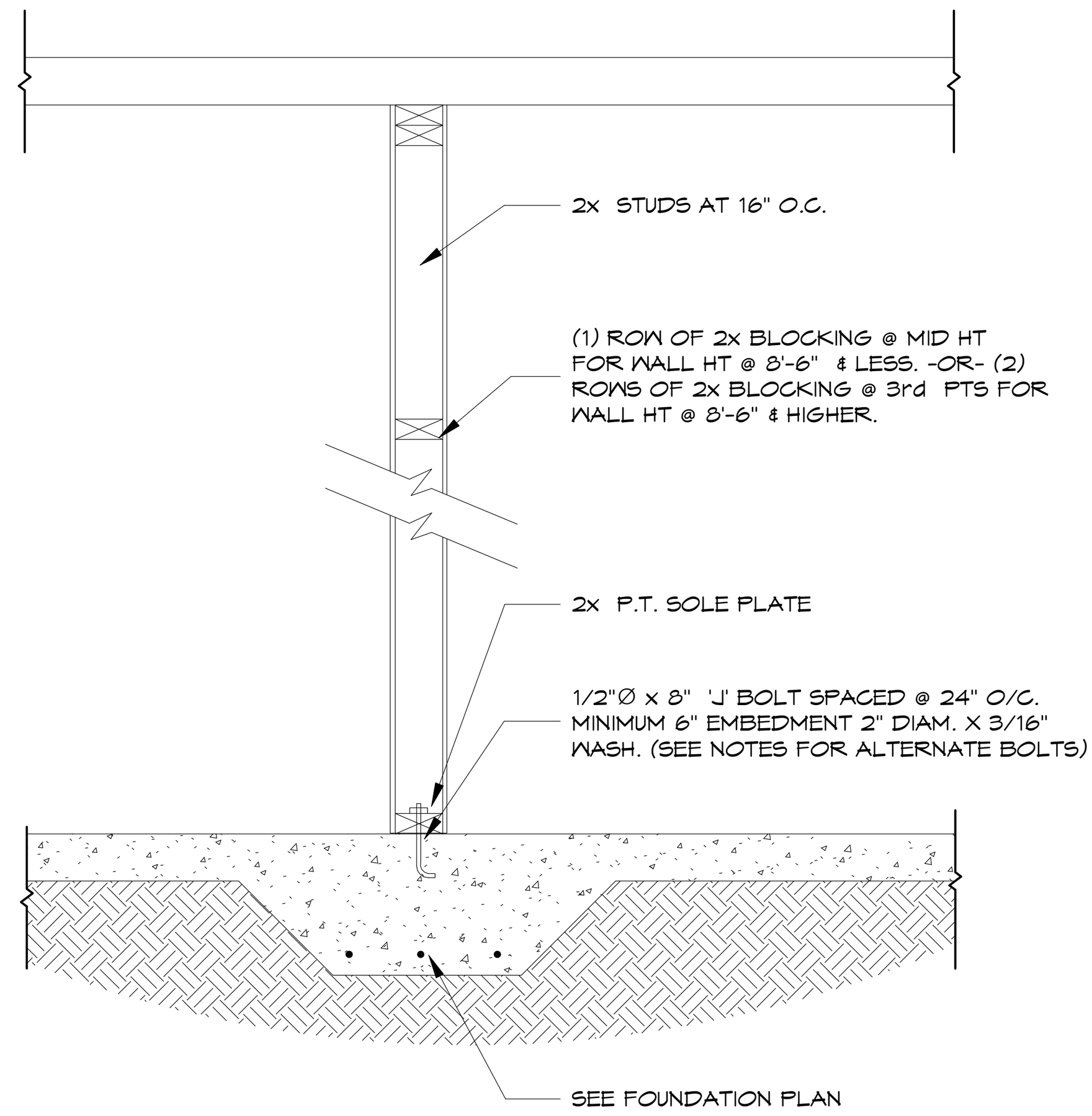
MASONRY & FOOTING DETAILS

SD2

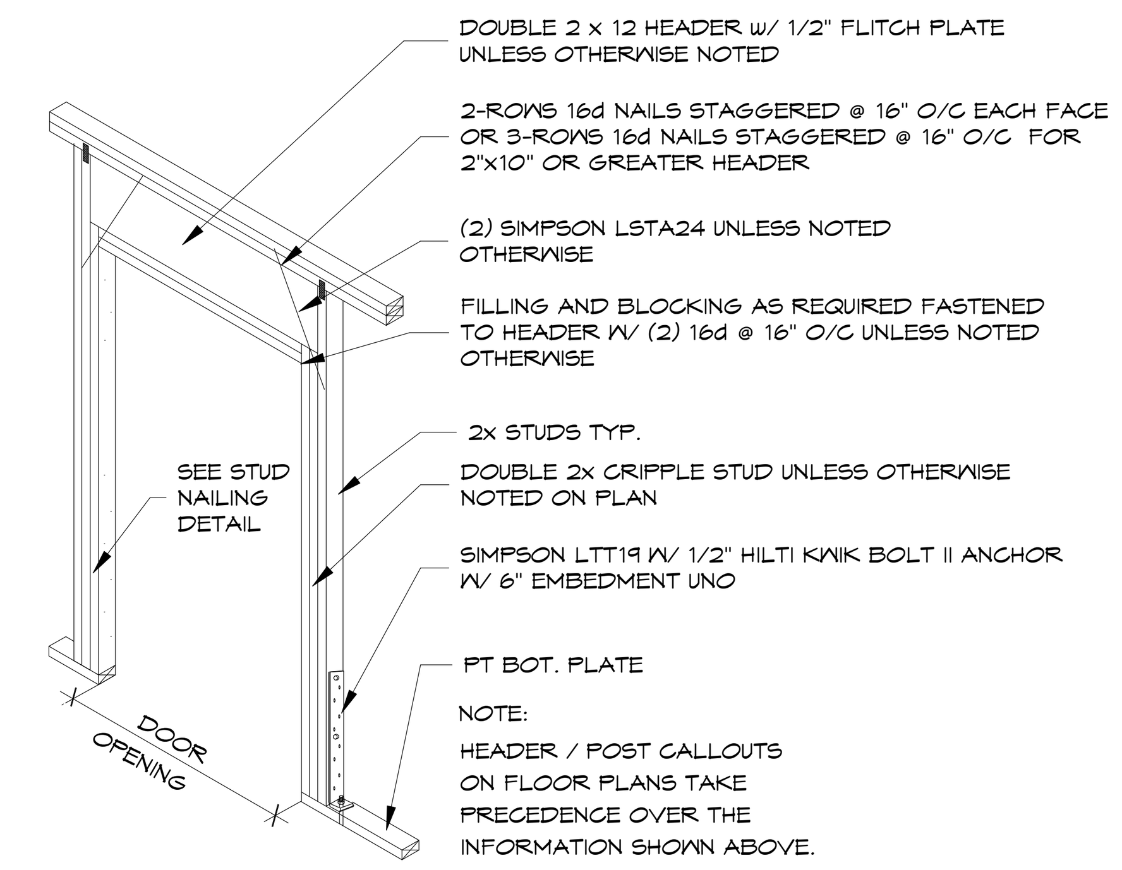
Original drawing is 24 x 36 Do not scale contents of drawing



1 SD3 BRG FRAME WALL SECT (UPLIFT)
N.T.S.

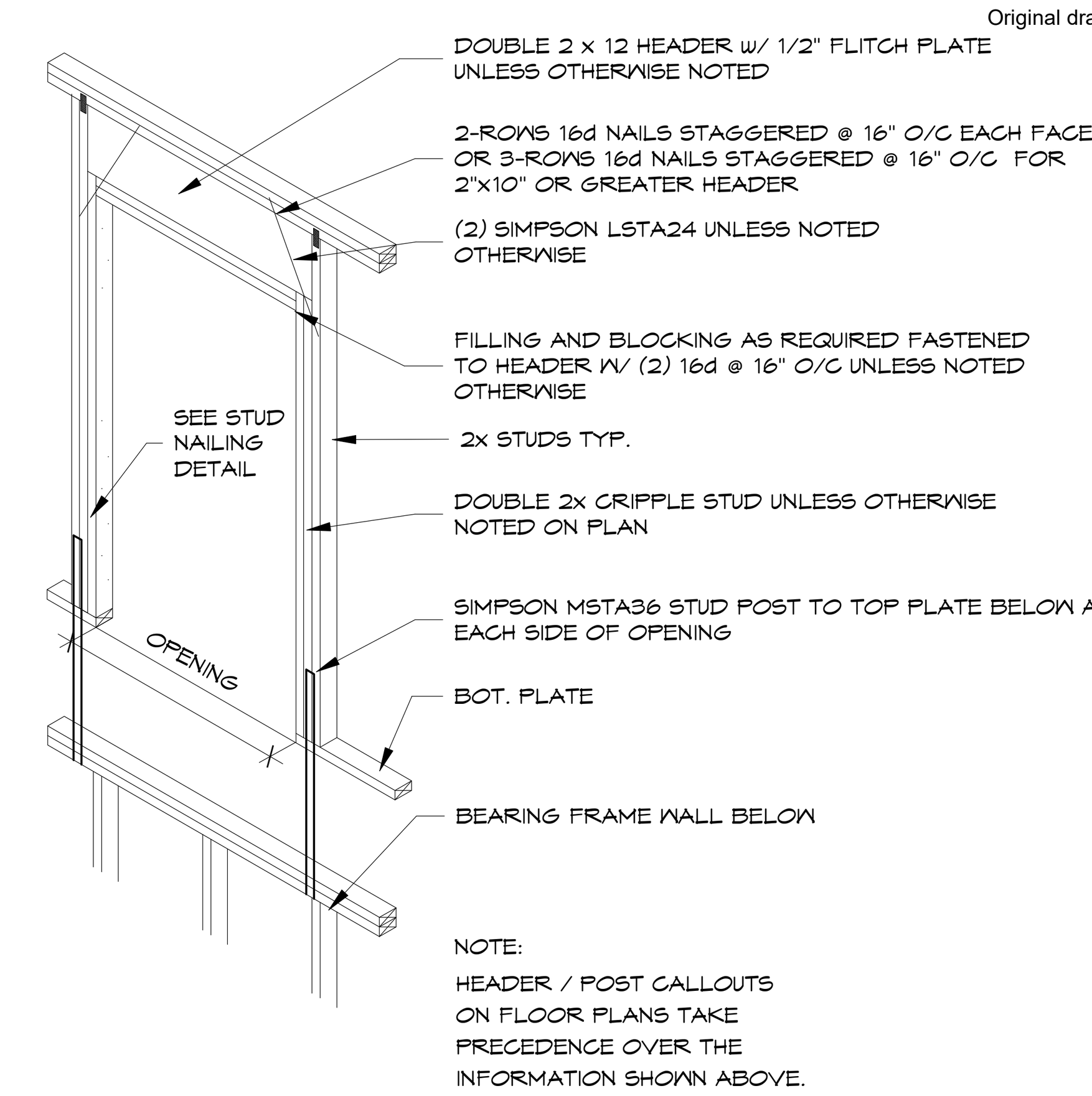


2 SD3 BRG FRAME WALL SECT (NO UPLIFT)
N.T.S.



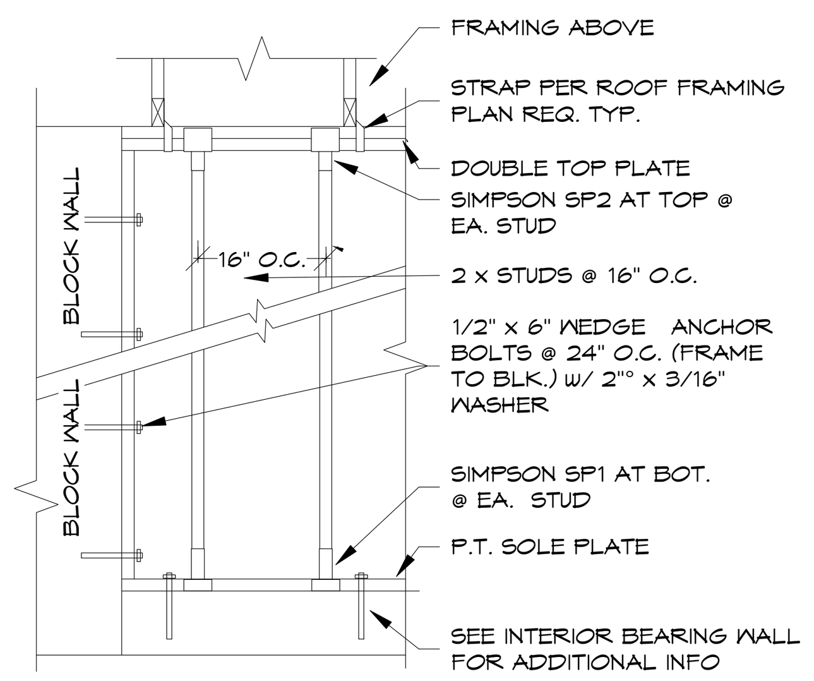
NOTE:
HEADER / POST CALLOUTS ON FLOOR PLANS TAKE PRECEDENCE OVER THE INFORMATION SHOWN ABOVE.

3 SD3 TYP OPENING FRAME BRG WALL- 1ST FLOOR
N.T.S.

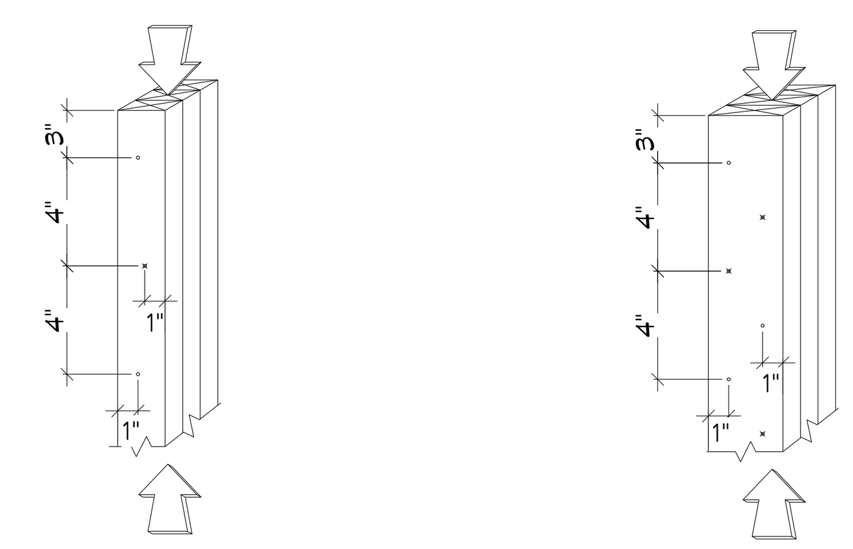


NOTE:
HEADER / POST CALLOUTS ON FLOOR PLANS TAKE PRECEDENCE OVER THE INFORMATION SHOWN ABOVE.

4 SD3 TYP OPENINGS AT FRAME BRG TOP WALLS
N.T.S.



5 SD3 BRG. FRAME TO CMU WALL SECTION
N.T.S.

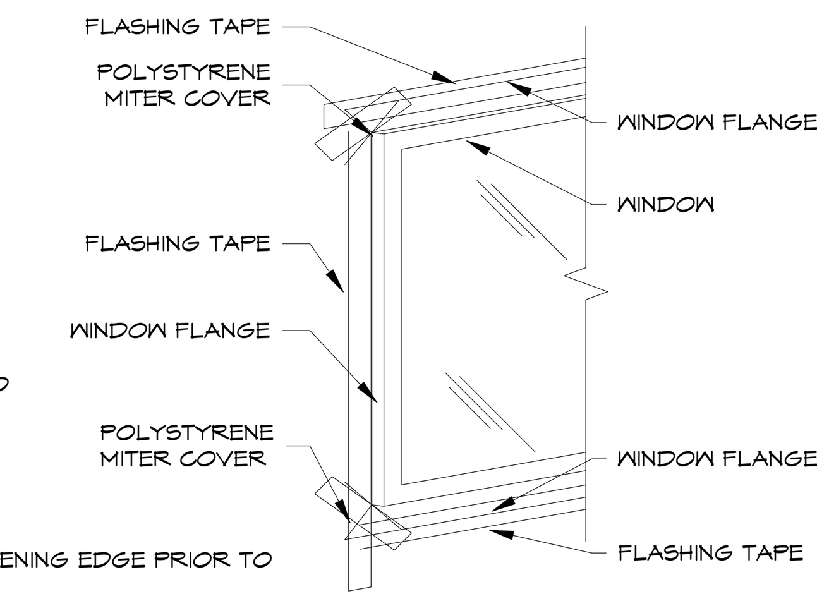


2"x 4" COLUMNS W/ (1) ROW OF STAGGERED 16d COMMON WIRE NAILS (D = 0.162", L = 3 1/2")

2"x 6" OR 2"x 8" COLUMNS W/ (2) ROWS OF STAGGERED 16d COMMON WIRE NAILS (D = 0.162", L = 3 1/2")

NOTES:
1. ADJACENT NAILS ARE DRIVEN FROM OPPOSITE SIDES OF THE COLUMN
2. ALL NAILS PENETRATE AT LEAST 3/4 OF THE THICKNESS OF THE LAST LAMINATION
3. FOR 3-PLY, COLUMN SHALL BE NAILED AS SHOWN FROM EACH SIDE (ONE INTO EACH OUTSIDE FACE OF B.U.C., SAME NUMBER OFROWS, SAME SPACING)
4. FOR 4-PLY, PROVIDE 1/4" DIA. x 5 1/2" LAG SCREWS OR EQUAL (SPACE AS SHOWN FOR 3-PLY)
5. FOR 5-PLY, PROVIDE 1/4" DIA. x 7" LAG SCREWS OR EQUAL (SPACE AS SHOWN FOR 3-PLY)
6. REFER TO NDS SECTION 15.3 FOR ADDITIONAL INFORMATION

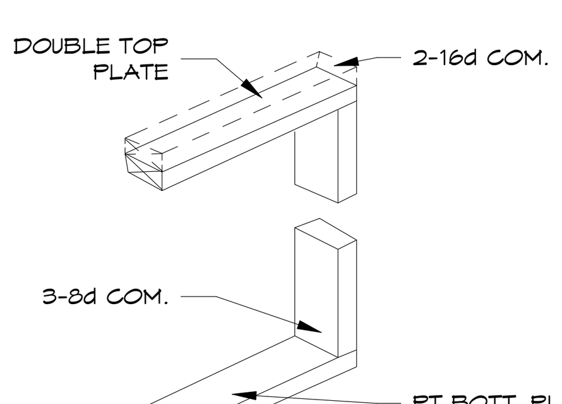
6 SD3 TYP STUD COLUMN AND JACK NAILING
N.T.S.



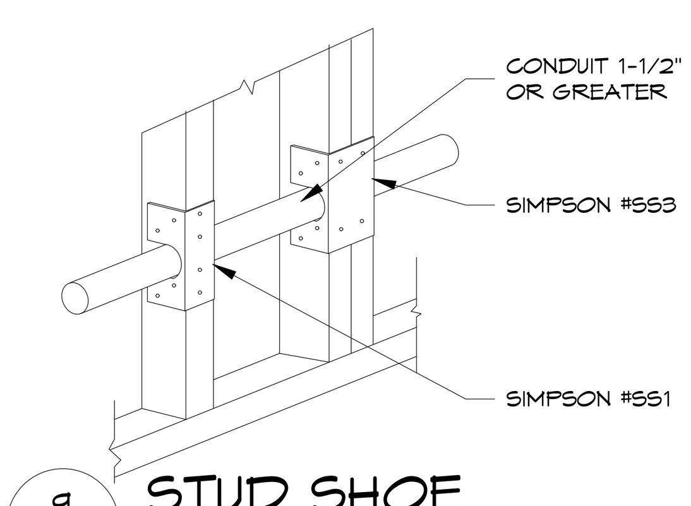
NOTE:
AN ADDITIONAL ROW OF TAPE IS NEEDED IF THE TAPE IS TOO NARROW TO COVER ALL EXPOSED NAILS IN THE NAILING FLANGE.

WINDOW FLASHING NOTES:
STEP #1 CAULK WINDOW OPENING EDGE PRIOR TO SETTING WINDOW.
STEP #2 HOUSEWRAP TAPED TO FLANGE BOTTOM.
STEP #3 CUT HOUSEWRAP DIRECTLY ABOVE NAILING FLANGE & OVERSIZE CUT 6" BOTH SIDES OF WINDOW FLANGE.
STEP #4 COVER OPEN NAILING FLANGE MITER W/RED HOUSEWRAP TAPE.
STEP #5 INSTALL FLASHING TAPE 2 SIDES WITH TOP OF TAPE FLASHED UNDER HOUSEWRAP.

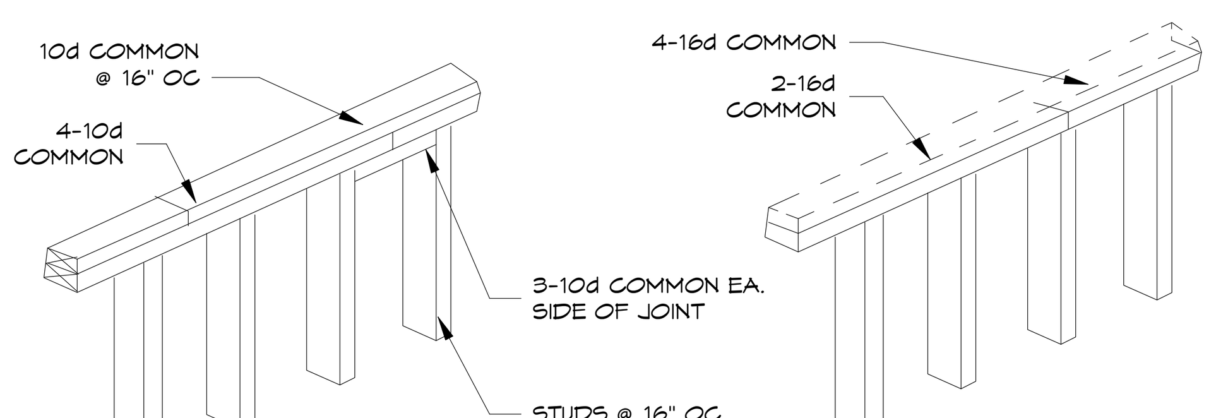
11 SD3 TYP WINDOW FLASHING IN FRAME
N.T.S.



8 SD3 END STUD INT.
N.T.S.

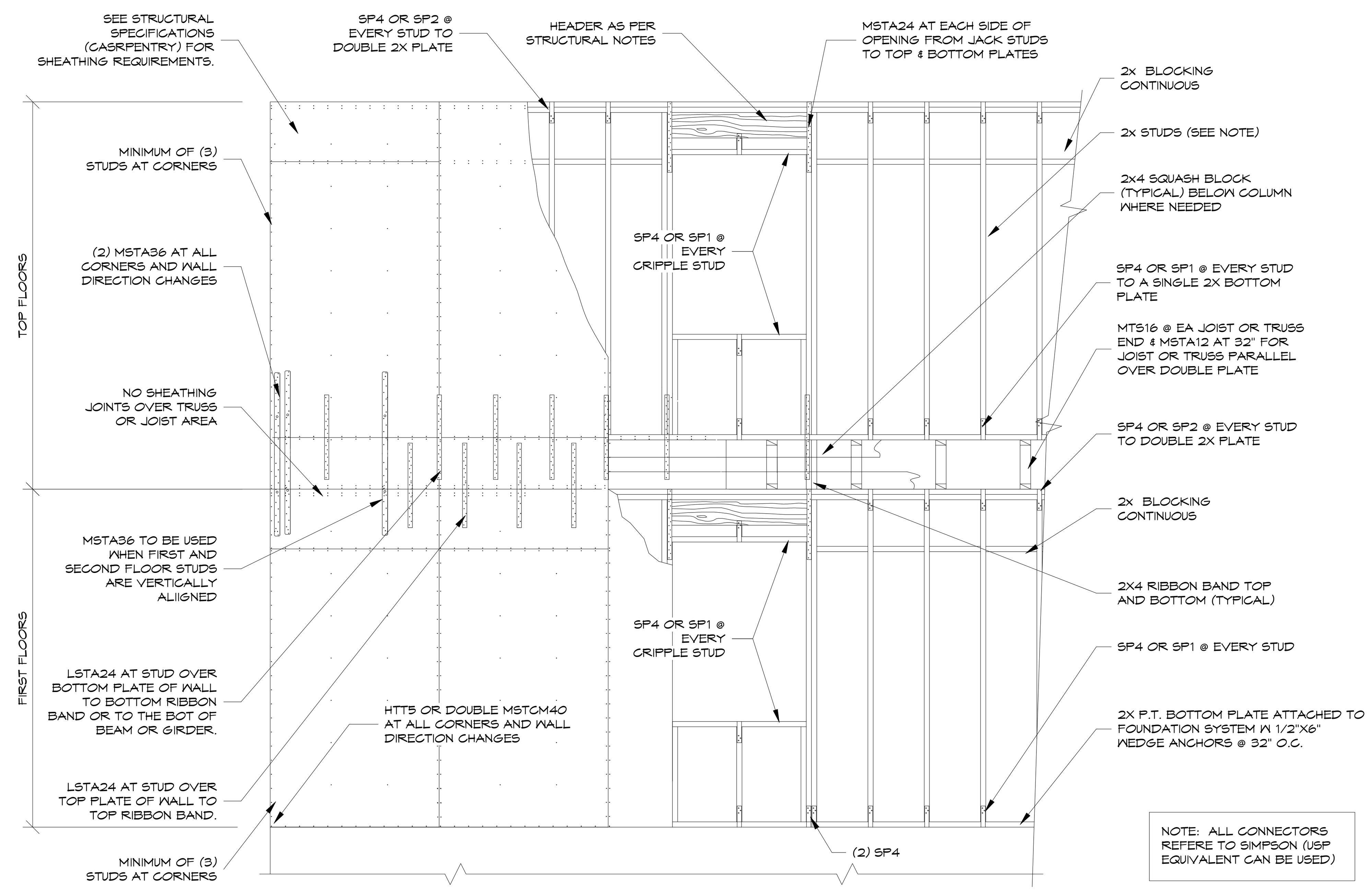


9 SD3 STUD SHOE
N.T.S.



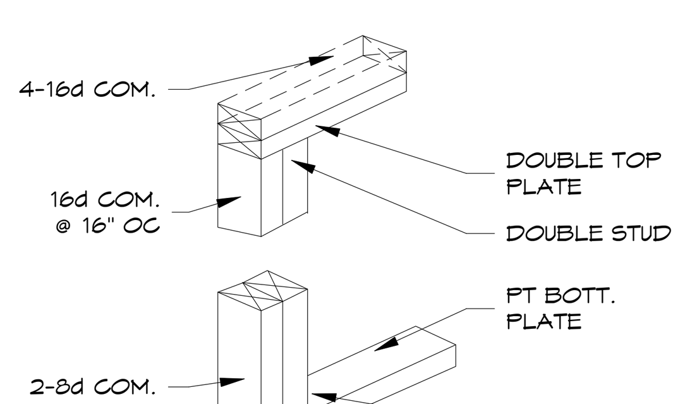
10 SD3 TOP PLATE FASTENERS
N.T.S.

TYPICAL NAILING SCHEDULE		
LEDGER STRIP	16D COMMON	3 AT EACH JOIST
SOLE PLATE TO JOIST OR BLOCKING, FACENAIL	16D COMMON	16" O.C.
TOP OF SOLE PLATE TO STUD, AND NAILED	16D COMMON	2
STUD TO SOLE PLATE, TOE NAIL	8D COMMON	4
DOUBLED STUDS, FACE NAIL	10D COMMON	24" O.C.
DOUBLED TOP PLATES, FACE NAIL	10D COMMON	16" ALONG EACH EDGE
CONTINUOUS HEADER TO STUD, TOE NAIL	8D COMMON	3
1X8 SHEATHING OR LESS TO EACH BEARING, FACE NAIL	8D COMMON	2
OVER 1X8 SHEATHING TO EACH BEARING, FACE NAIL	8D COMMON	3
BUILD-UP CORNER STUDS	16D COMMON	24" O.C.
BUILD-UP GIRDERS AND BEAMS UP TO THREE MEMBERS	20D COMMON	32" O.C. AT TOP AND BOTTOM AND STAGGERED 2 ENDS AT EACH SPLICE
1/2" GYPSUM SHEATHING	11 GA 1-1/2", 7/16" HEAD	4" O.C. AT EDGES, 8" O.C. AT OTHER BEARING
5/8" GYPSUM SHEATHING	11GA 1-3/4", 7/16" HEAD	4" O.C. AT EDGES, 8" O.C. AT OTHER BEARING
1/2" GYPSUM WALBOARD	1-3/8" DRYWALL NAIL	7" O.C. ON CEILINGS, 8" O.C. ON WALLS
5/8" GYPSUM WALBOARD	1-1/2" DRYWALL NAIL	7" O.C. ON CEILINGS, 8" O.C. ON WALLS
HARDBOARD LAP SIDING, DIRECT TO STUDS	8D CORROSION RESISTANT W/ MIN SHANK DIA. OF 0.099" & MIN HEAD DIA. OF 0.24"	16" OC. AT TOP AND BOTTOM EDGES
HARDBOARD LAP SIDING, OVER SHEATHING	10D CORROSION RESISTANT W/ MIN SHANK DIA. OF 0.099" & MIN HEAD DIA. OF 0.24"	16" OC. AT TOP AND BOTTOM EDGES
HARDBOARD PANEL SIDING, DIRECT TO STUDS	6D CORROSION RESISTANT W/ MIN SHANK DIA. OF 0.092" & MIN HEAD DIA. OF 0.225"	6" O.C. AT EDGES, 12" O.C. AT INTERMEDIATE SUPPORTS
HARDBOARD PANEL SIDING, OVER SHEATHING	8D CORROSION RESISTANT W/ MIN SHANK DIA. OF 0.092" & MIN HEAD DIA. OF 0.225"	6" O.C. AT EDGES, 12" O.C. AT INTERMEDIATE SUPPORTS

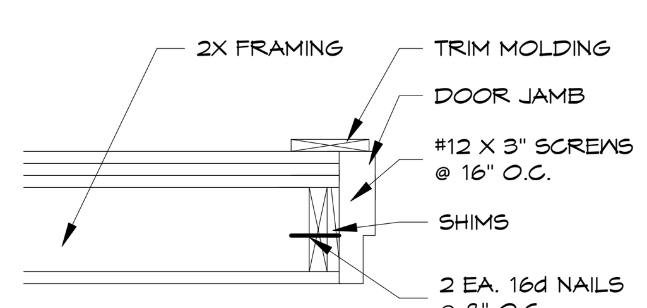


NOTE: ALL CONNECTORS REFERE TO SIMPSON (USP EQUIVALENT CAN BE USED)

14 SD3 PERFORATED WOOD FRAME SHEARWALL
N.T.S.



12 SD3 DOUBLE END STUD
N.T.S.



13 SD3 DOOR JAMB - WOOD
N.T.S.

INTEGRAL ENGINEERING, INC.
16704 Tobacco Road, Lutz, FL 33558
Phone: (813) 908-0402 | Fax: (813) 969-0206 | EB # 8253

I HEREBY CERTIFY THAT, AS A STRUCTURAL ENGINEER, I HAVE REVIEWED THIS DESIGN AND FOUND IT TO BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE, 7th EDITION, 2020.

SIGNED AND SEALED FOR THE STRUCTURAL ENGINEERING PORTION OF THIS DRAWING ONLY TO ENSURE THAT THE PLANNED STRUCTURE WILL BE SUFFICIENTLY STRONG TO CARRY ITS INTENDED GRAVITY, LATERAL AND UPLIFT LOADS. STRUCTURAL INCLUDES DESIGN OF LOAD BEARING ELEMENTS.

ARCHITECTURAL, WATER INTRUSION PROTECTION, MECHANICAL, ELECTRICAL, FIRE PROTECTION, EGRESS, ACCESSIBILITY, ENERGY CONSERVATION, FUEL GAS, STUCCO APPLICATION, & PLUMBING DESIGN INCLUDED IN THIS DRAWING ARE INCIDENTAL AND/OR FOR INFORMATION PURPOSES ONLY AND THEIR DESIGN SHALL NOT BE THE STRUCTURAL ENGINEER RESPONSIBILITY.

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LUIS CARLOS CORREA LICENSE No 49018 ★ STATE OF FLORIDA ★ PROFESSIONAL ENGINEER

10/29/2021

LUIS C. CORREA, FL P.E., S.I. #49018

REVISIONS		
No.	DESCRIPTION	DATE

Client
MOBLEY CUSTOM HOMES

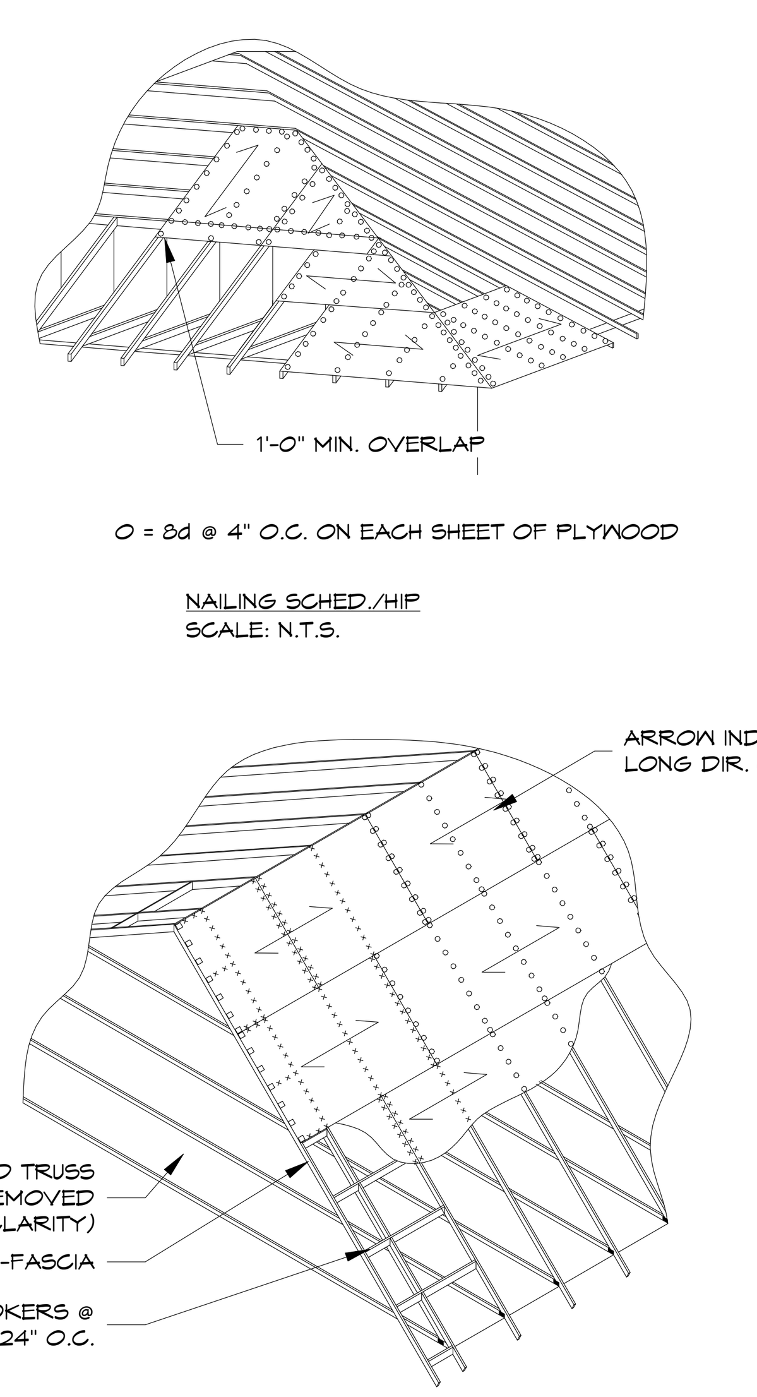
SINGLE FAMILY HOMES
ALL MODELS IIN 145 MPH EXPOSURE B
FLORIDA

JOB NO: 90 PROJ MGR: LCC
DRAWN: LCC CHECKED:

WOOD FRAMING DETAILS

PERMIT DOCUMENTS

SD3



X = 10d COMMONS OR 8d RING SHANK @ 4" O.C. ON EACH SHEET OF PLYWOOD
O = 10d COMMONS OR 8d RING SHANK @ 4" O.C. ON EACH SHEET OF PLYWOOD
□ = 10d COMMONS OR 8d RING SHANK @ 4" O.C. ON EACH SHEET OF PLYWOOD

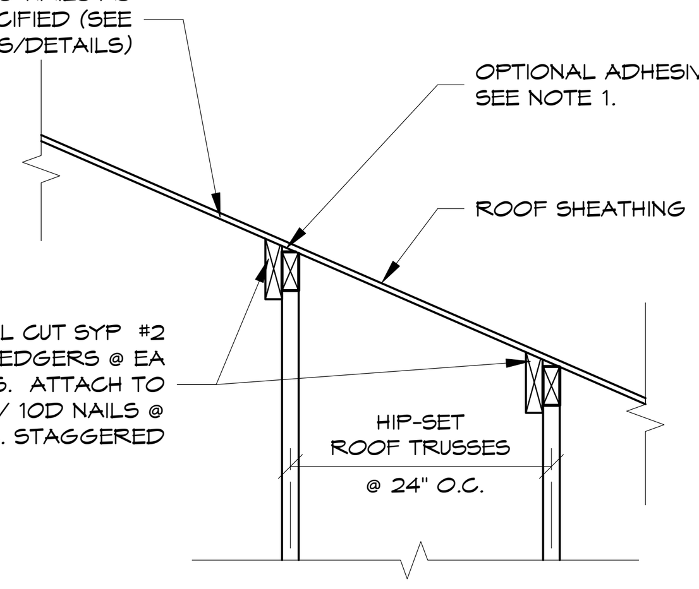
NAILING SCHED./GABLE
SCALE: N.T.S.

PLYWOOD CLIPS TO BE INSTALLED AT ALL LOCATIONS WHERE SHEATHING SPANS 16" OR MORE AS PER APA REQUIREMENTS. DOUBLE CLIPS TO BE USED WHERE SHEATHING PANELS ARE CUT TO 24" IN LENGTH OR LESS.

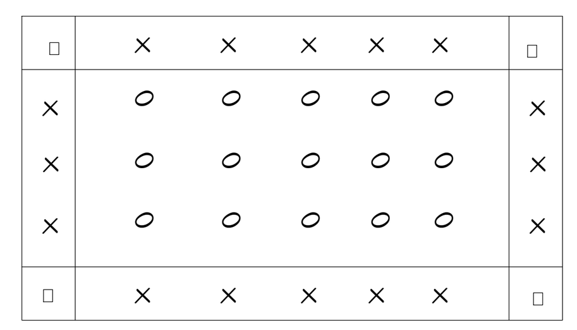
1 SD4 TYP ROOF SHEATHING NAIL PATTERNS.
N.T.S.

NOTE 1:

IF LEDGERS ARE INSTALLED AFTER ROOF SHEATHING IS ATTACHED TO TRUSSES, FASTEN TOP OF BEVELED LEDGER TO ROOF SHEATHING WITH FULL BEAD OF CONSTRUCTION ADHESIVE.



2 SD4 ROOF SHEATHING SUPPORT AT HIP SET
N.T.S.

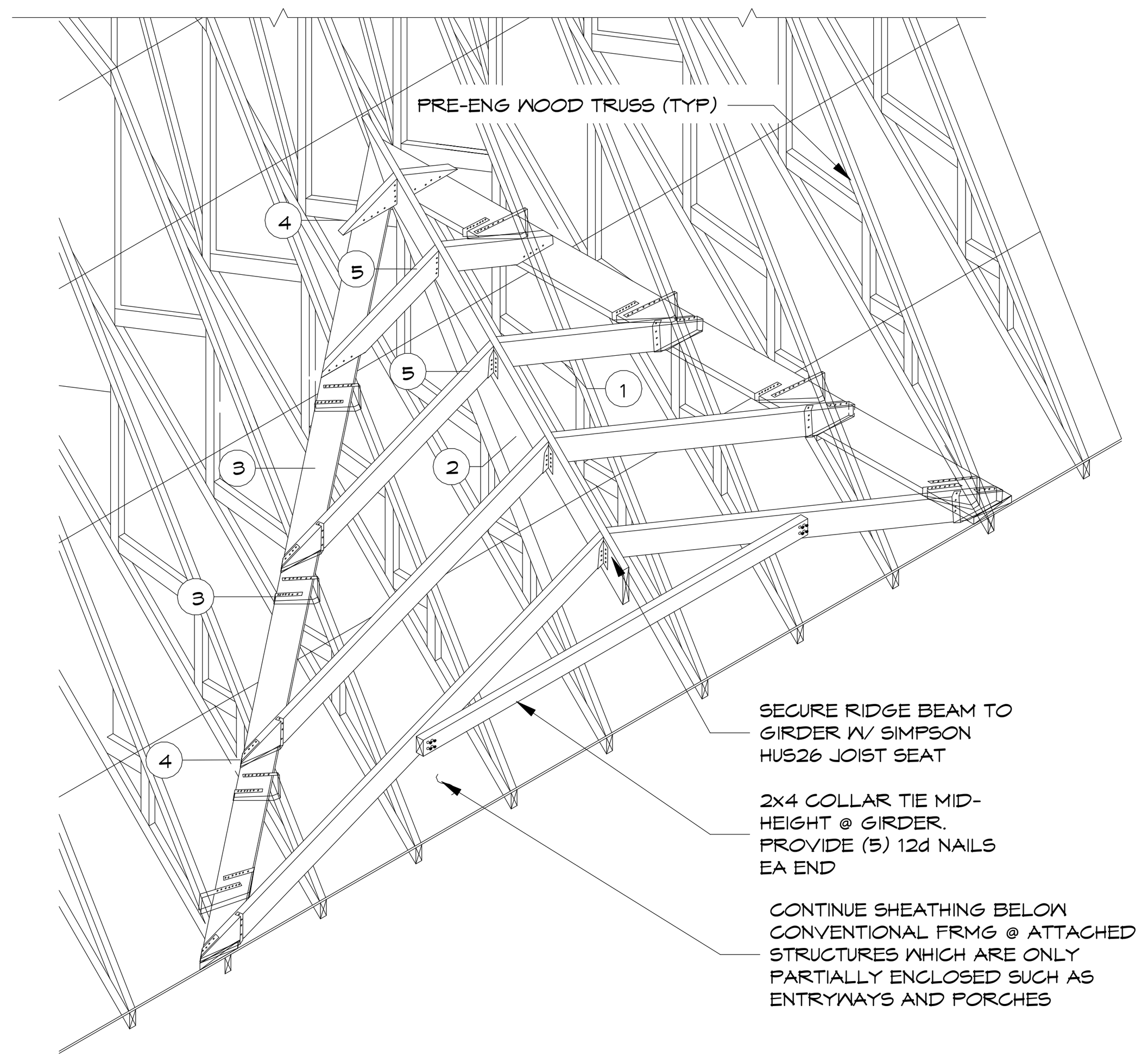


NAILING SCHED./LOW SLOPE ROOF
SCALE: N.T.S.

X = 10d COMMONS OR 8d RING SHANK @ 4" O.C. ON EACH SHEET OF PLYWOOD
O = 10d COMMONS OR 8d RING SHANK @ 4" O.C. ON EACH SHEET OF PLYWOOD
□ = 10d COMMONS OR 8d RING SHANK @ 3" O.C. ON EACH SHEET OF PLYWOOD

PLYWOOD CLIPS TO BE INSTALLED AT ALL LOCATIONS WHERE SHEATHING SPANS 16" OR MORE AS PER APA REQUIREMENTS. DOUBLE CLIPS TO BE USED WHERE SHEATHING PANELS ARE CUT TO 24" IN LENGTH OR LESS.

5 SD4 TYP ROOF NAILING - FLAT
N.T.S.



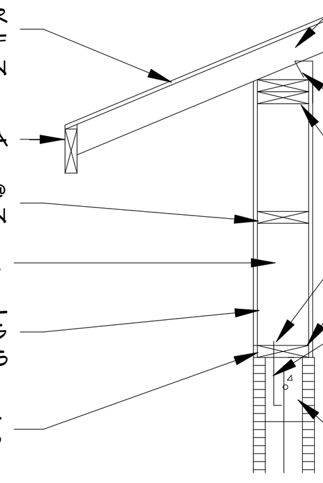
3 SD4 CONVENTIONAL VALLEY FRAMING ISOMETRIC
N.T.S.

NOTES:

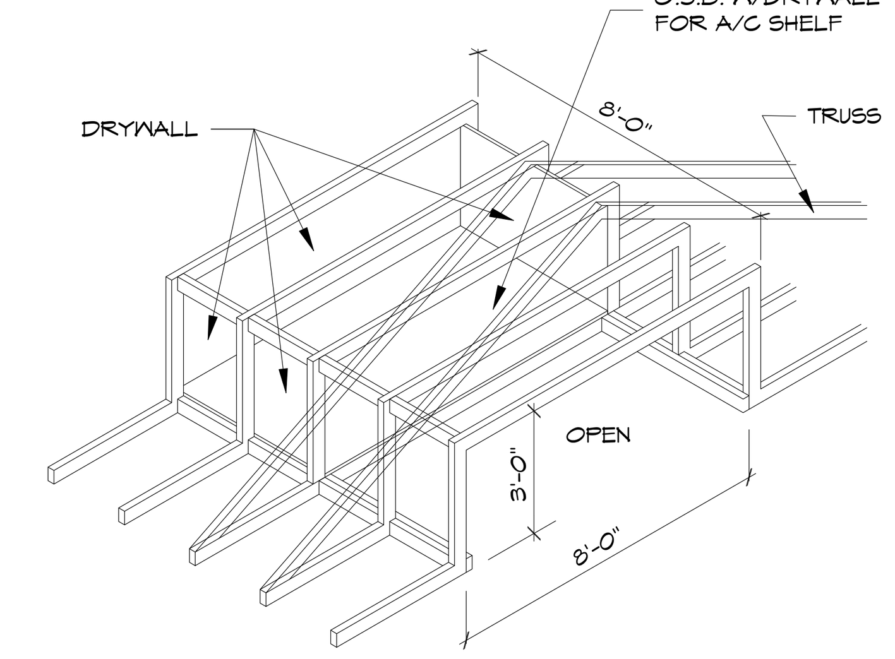
1. ALL RAFTERS SHALL BE #2 SOUTHERN YELLOW PINE. SECTION SIZE SHALL BE DETERMINED ACCORDING TO THE LENGTH OF SPAN AS FOLLOWS:

UP TO 8'-0"	....	2x6
8'-0" TO 12'-0"	....	2x8
12'-0" TO 15'-0"	....	2x10
15'-0" TO 18'-0"	....	2x12

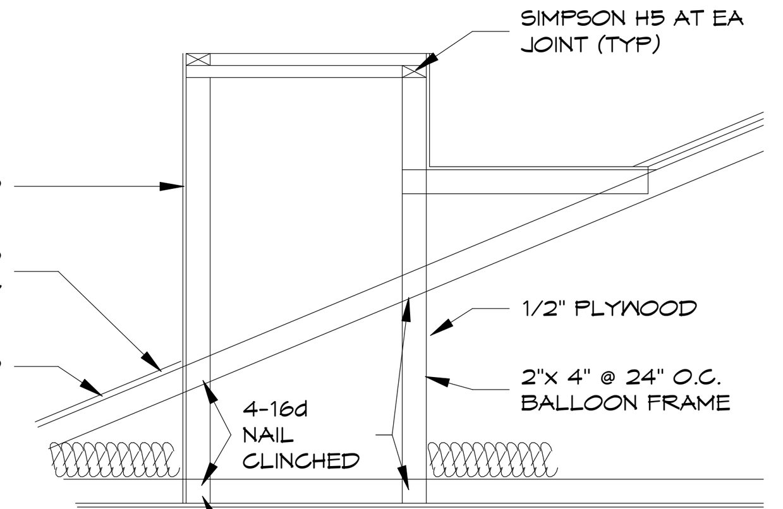
2. RIDGE BEAM SHALL BE #2 SOUTHERN YELLOW PINE. SECTION SIZE SHALL BE 2" (NOMINAL) LARGER THAN RAFTERS W/ A MAXIMUM RIDGE SIZE OF 2X12 FOR 2X12 RAFTERS.
3. CLEAT SHALL BE A #2 SOUTHERN YELLOW PINE 2X10. IT SHALL BE FASTENED AS SHOWN W/ SIMPSON MSTA24 TENSION STRAPS @ EACH TRUSS USING (14) 8d NAILS. INSTALL THE STRAP BY CUTTING A HOLE INTO THE SHEATHING @ EACH SIDE OF TRUSS AND THREADING THE U-SHAPED STRAP FROM BOTTOM OF TRUSS TOP CHORD TO TOP OF CLEAT.
4. SECURE RAFTERS TO CLEAT USING SIMPSON LS90 FOR 2X12 RAFTERS, (10) 8d NAILS FOR 2X10 RAFTERS, (8) 8d NAILS FOR 2x6 RAFTERS WITH SPANS OF 4'-0" OR GREATER. 2x6 RAFTERS W/ SPANS LESS THAN 4'-0" SHALL BE TOE-NAILED TO CLEAT W/ (3) 10d NAILS.
5. SECURE RAFTERS TO RIDGE BEAM USING SIMPSON LUS26 SLOPING JOIST SEAT. 2x6 RAFTERS W/ SPANS LESS THAN 4'-0" MAY BE TOE-NAILED TO RIDGE BEAM W/ (3) 10d NAILS.



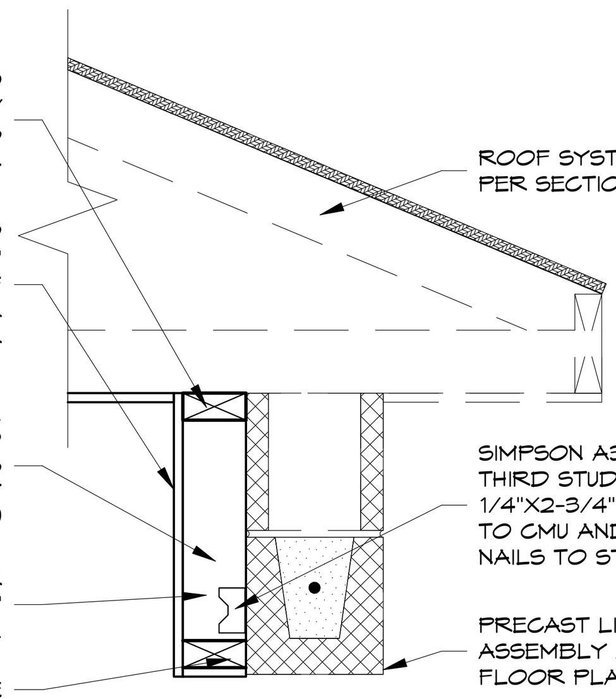
4 SD4 FRAMED KNEE WALL OVER TIE BEAM
N.T.S.



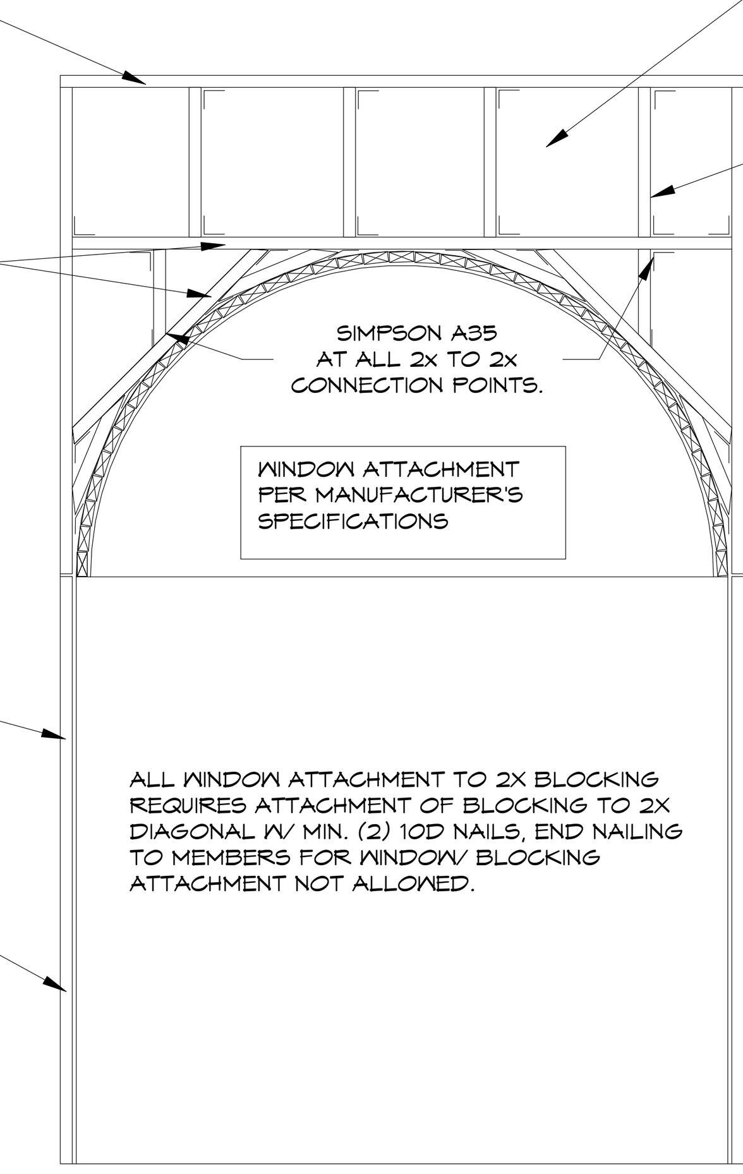
9 SD4 A/C SHELF DETAIL
N.T.S.



6 SD4 CHIMNEY FRAMING
N.T.S.



7 SD4 FRAMED BOX TO CMU
N.T.S.



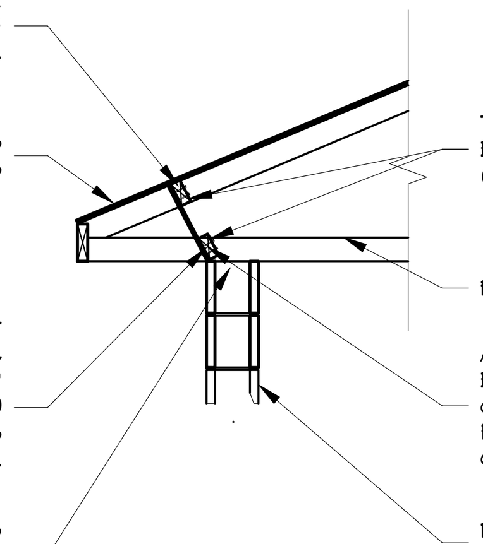
WINDOW ATTACHMENT POINTS TO 2X MEMBERS OR DIRECTLY TO MASONRY/ WOOD FRAMING ONLY. NUMBER OF DIAG. MEMBERS RELATIVE TO NUMBER OF REQUIRED ATTACHMENT POINTS PER MANUFACTURER. 2X BUCKS TO BE ATTACHED TO MASONRY PER SPECS GIVEN IN THIS DETAIL. 2X TO 2X ATTACHMENT TO BE SIMPSON A35. KNEEWALL ABOVE ARCH NECESSARY ONLY PER OPENING VARIATIONS. MIN. 2X BUCK FOR WINDOW SHEATHING ATTACHMENT AT TOP/ SIDES OF ARCH OPENING. IF ARCH TOP PROHIBITS 2X THICKNESS AT CENTER OF ARCH, USE DIRECT ATTACHMENT TO MASONRY/ WOOD FRAMING, WITH OR WITHOUT 1X BUCK, WITH 2X BUCK AT EACH SIDE TO EDGES OF OPENING. ALL MASONRY ANCHORS TO HAVE MIN. 1 1/4" EMBEDMENT.

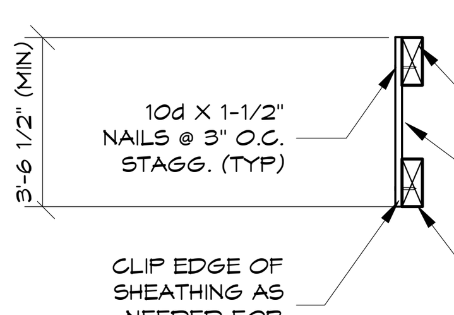
8 SD4 ARCHED TOP WINDOW OPENING - FRAME
N.T.S.

NOTE:

USE THIS DETAIL WHEN TRUSS HEEL IS HIGHER THAN 12"

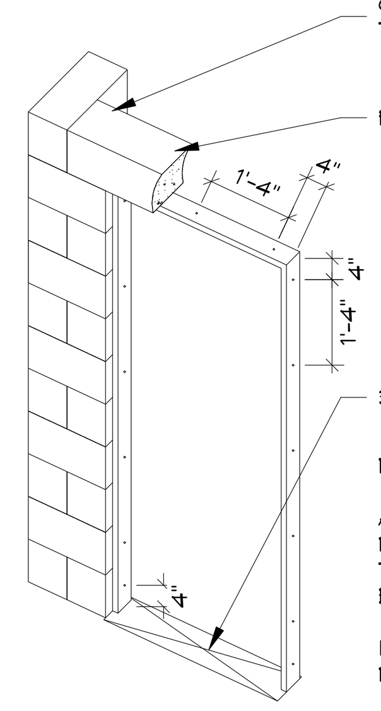
EAVE BLOCKING REQUIREMENTS		
WIND SPEED (MPH)	MINIMUM TRUSS SPAN (FT)	LOCATION OF EAVE BLOCKINGS
140	12	EVERY OTHER TRUSS
150	11	EVERY OTHER TRUSS
160	9	EVERY TRUSS
170	7	EVERY TRUSS





BLOCKING PANEL DETAIL
N.T.S.

10 SD4 EAVE BLOCKING LONG SPAN HIGH KNEE
N.T.S.

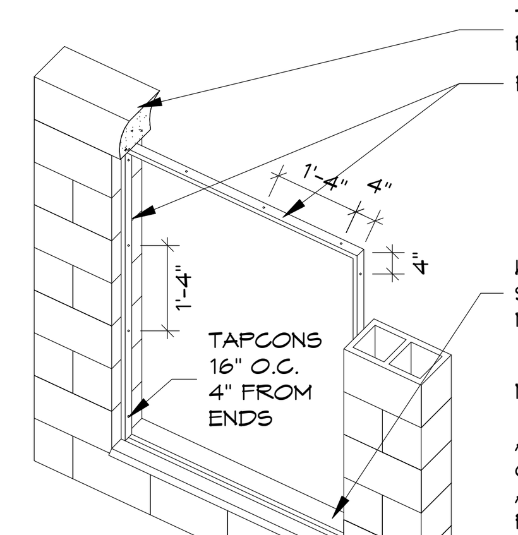


NOTE:

ATTACH 2X PT BUCK TO MASONRY OPENING W/ 3/16" TAPCONS 16" O.C. AND 4" FROM END W/ 1 1/4" PENETRATION.

INSTALL DOOR TO BUCKPER MANUFACTURER'S SPECS.

11 SD4 EXTERIOR DOOR BUCK - CMU
N.T.S.



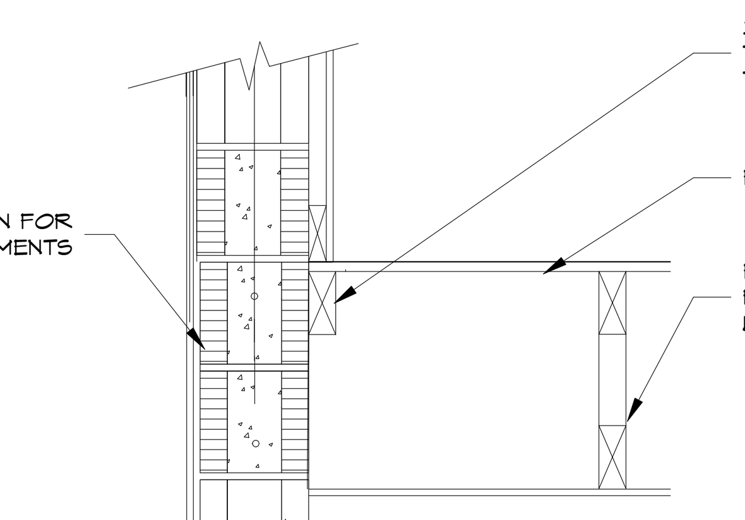
NOTE:

ATTACH 2X PT BUCK TO MASONRY OPENING W/ 3/16" TAPCONS 16" O.C. AND 4" FROM END W/ 1 1/4" PENETRATION.

MANUFACTURE'S SPECS FOR TAPCON SPACING SUPERCEDE GENERIC SPECS.

REFER TO WINDOW PRODUCT APPROVAL SHEET FOR INSTALLATION INFORMATION BY MANUFACTURER

12 SD4 EXTERIOR WINDOW BUCK - CMU
N.T.S.



13 SD4 LEDGER FOR SHEATHING @ PARALLEL TRUSSES
N.T.S.

PERMIT DOCUMENTS

INTEGRAL ENGINEERING, INC.
16704 Tobacco Road, Lutz, FL 33558
Phone: (813) 908-0402 | Fax: (813) 969-0206 | EB # 8253

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LUIS CARLOS CORREA LICENSE No 49018 STATE OF FLORIDA PROFESSIONAL ENGINEER
10/29/2021
LUIS C. CORREA, FL P.E., S.I. #49018

REVISIONS

No.	DESCRIPTION	DATE

Client
MOBLEY CUSTOM HOMES

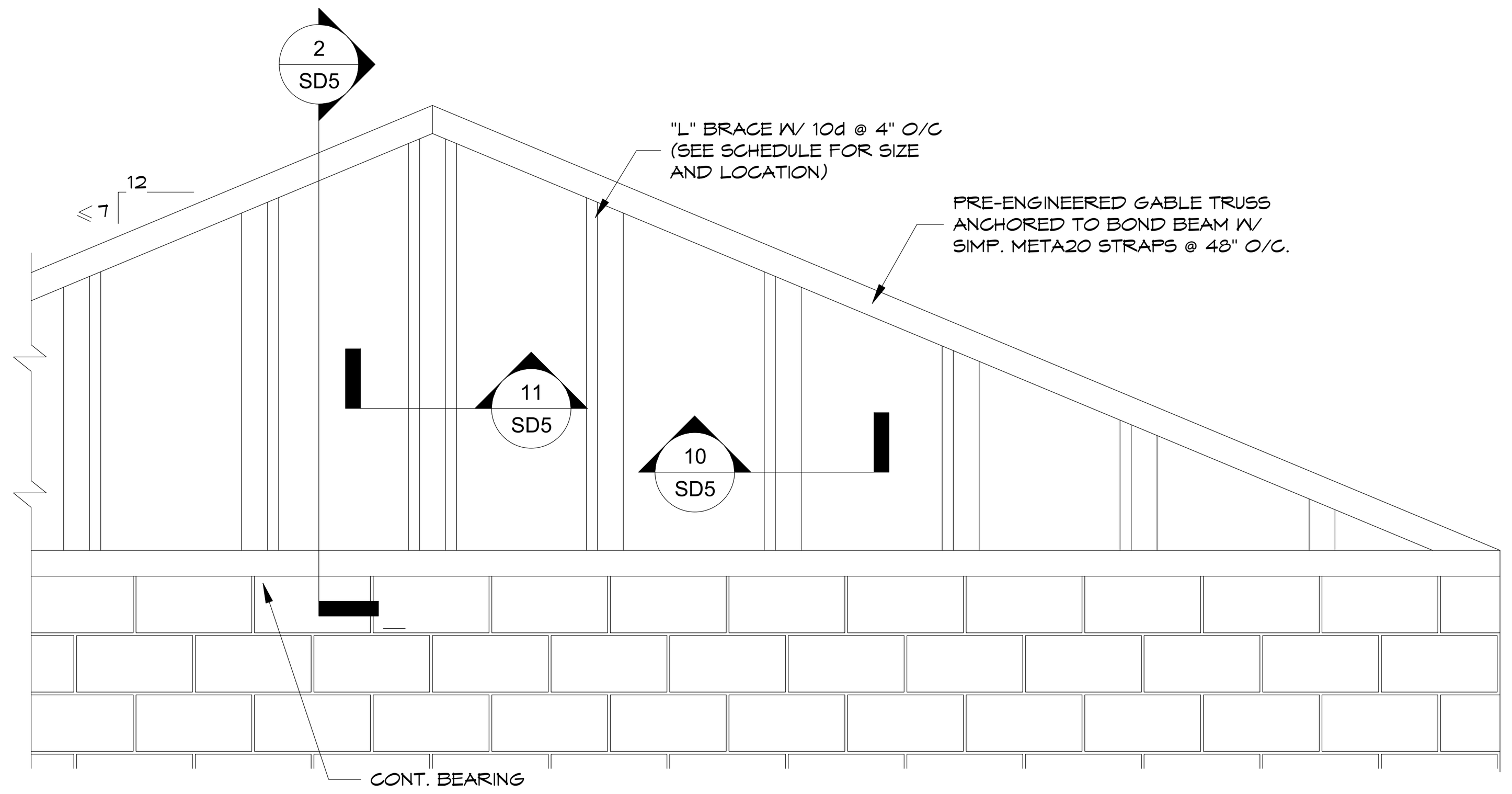
SINGLE FAMILY HOMES
ALL MODELS IIN 145 MPH EXPOSURE B
FLORIDA

JOB NO: 90 PROJ MGR: LCC
DRAWN: LCC CHECKED:

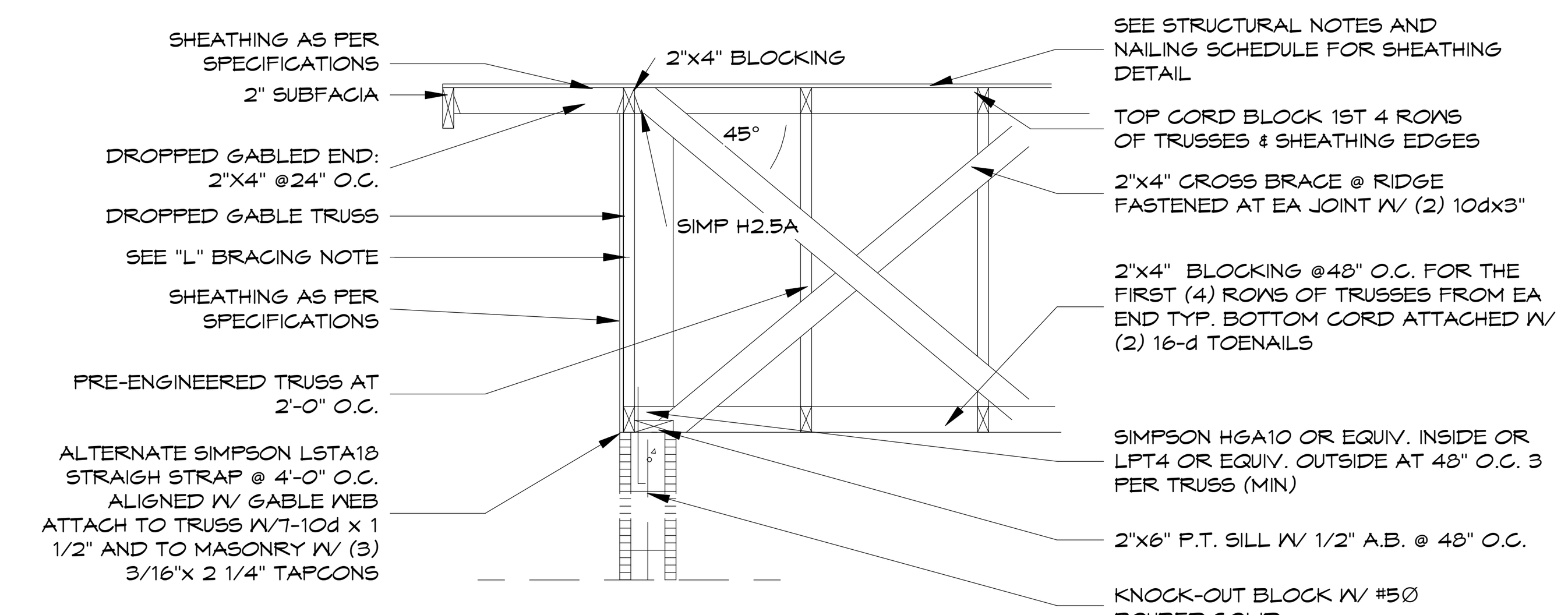
ROOF & DETAILS

SD4

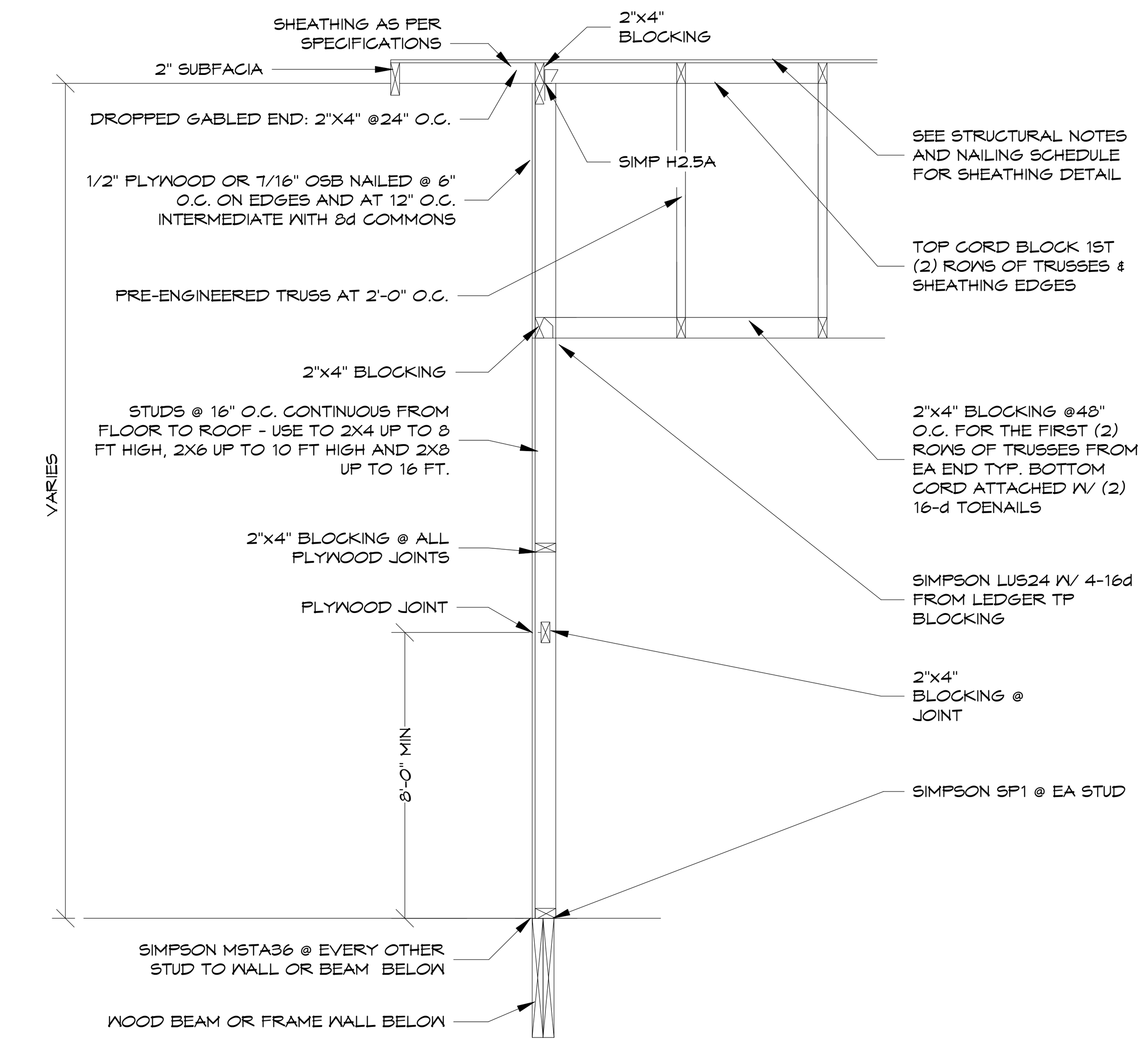
Original drawing is 24 x 36 Do not scale contents of drawing



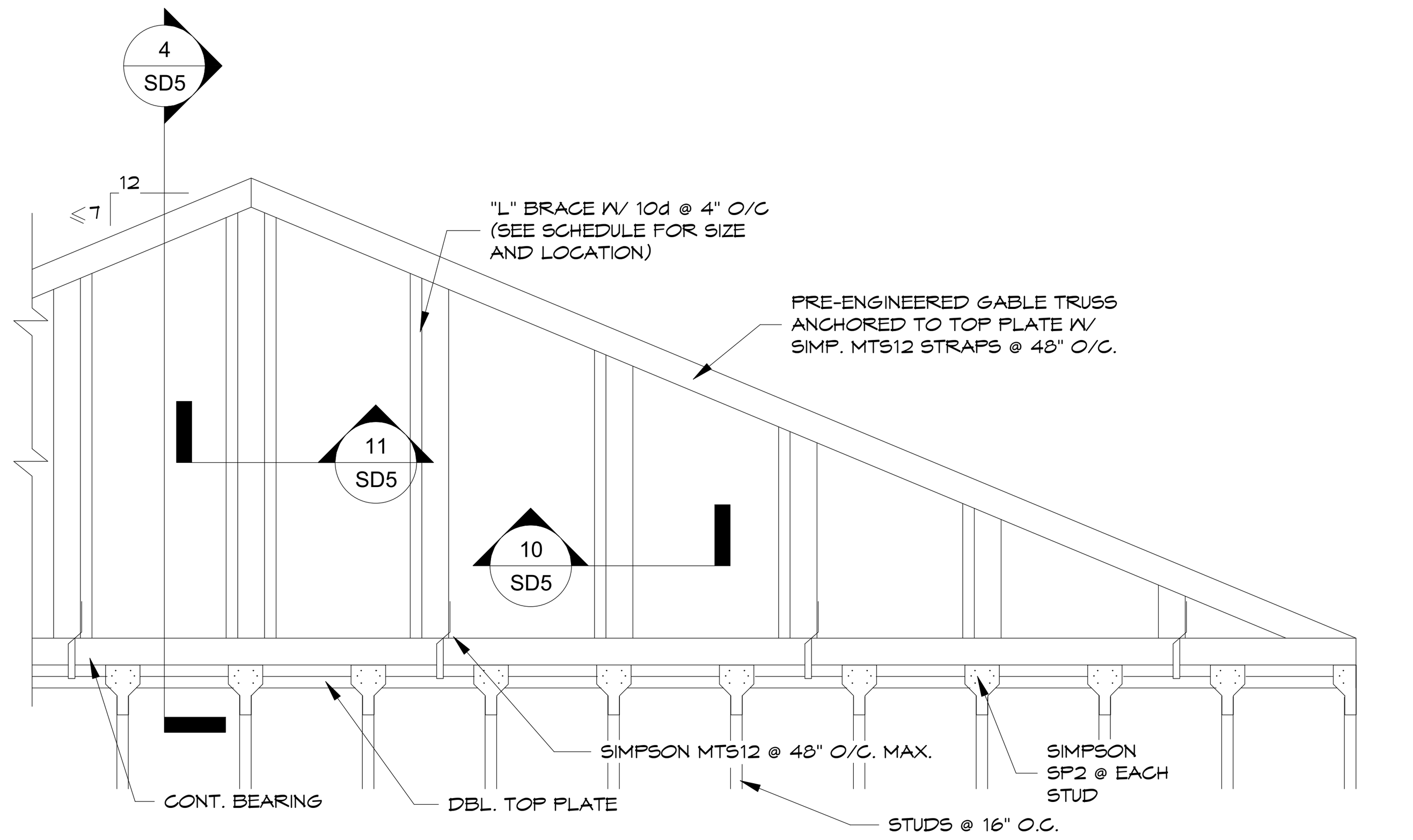
1 SD5 GABLE END OVER CMU - FLAT CLG
N.T.S.



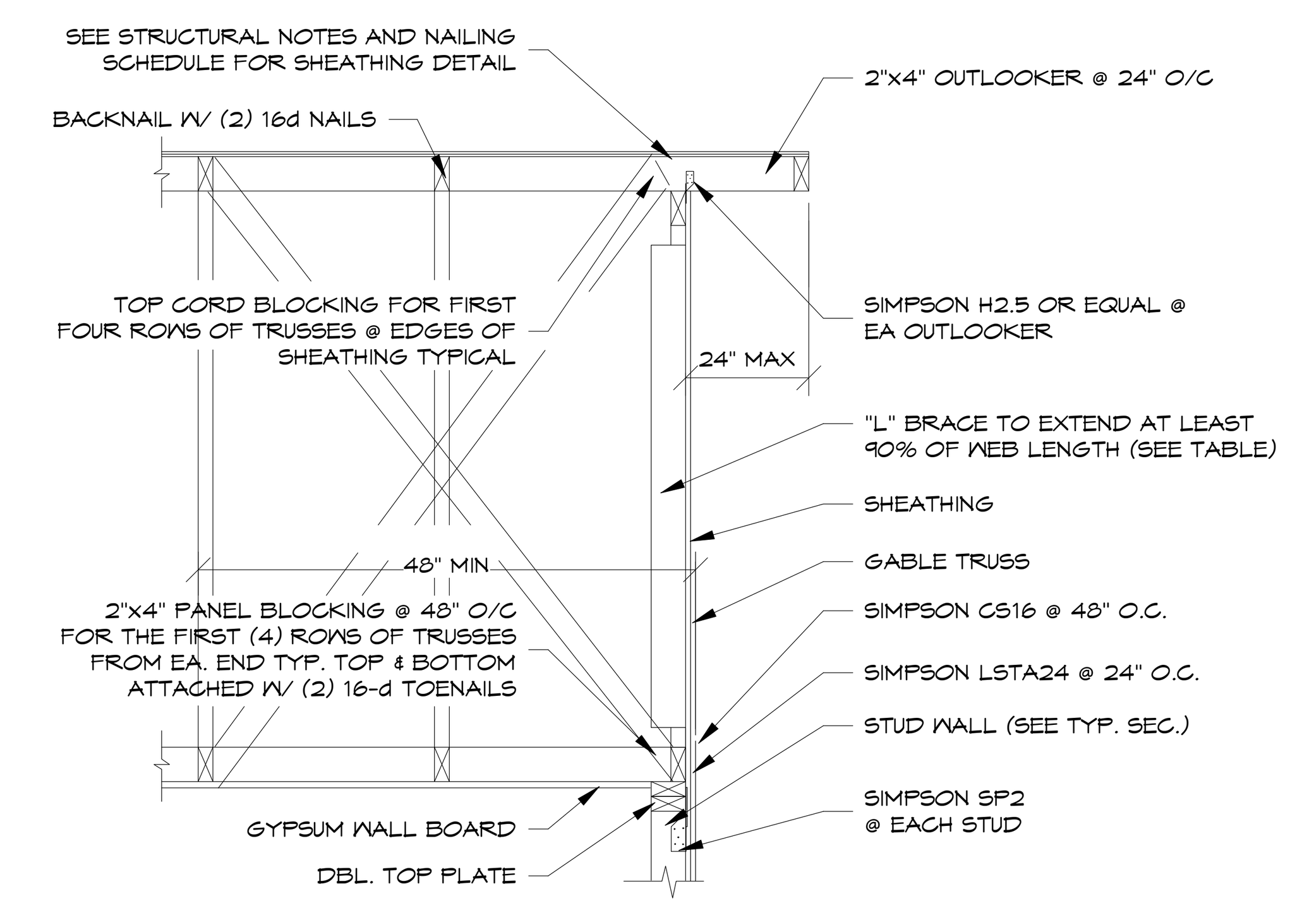
2 SD5 SECTION GABLE END OVER CMU - FLAT CLG
N.T.S.



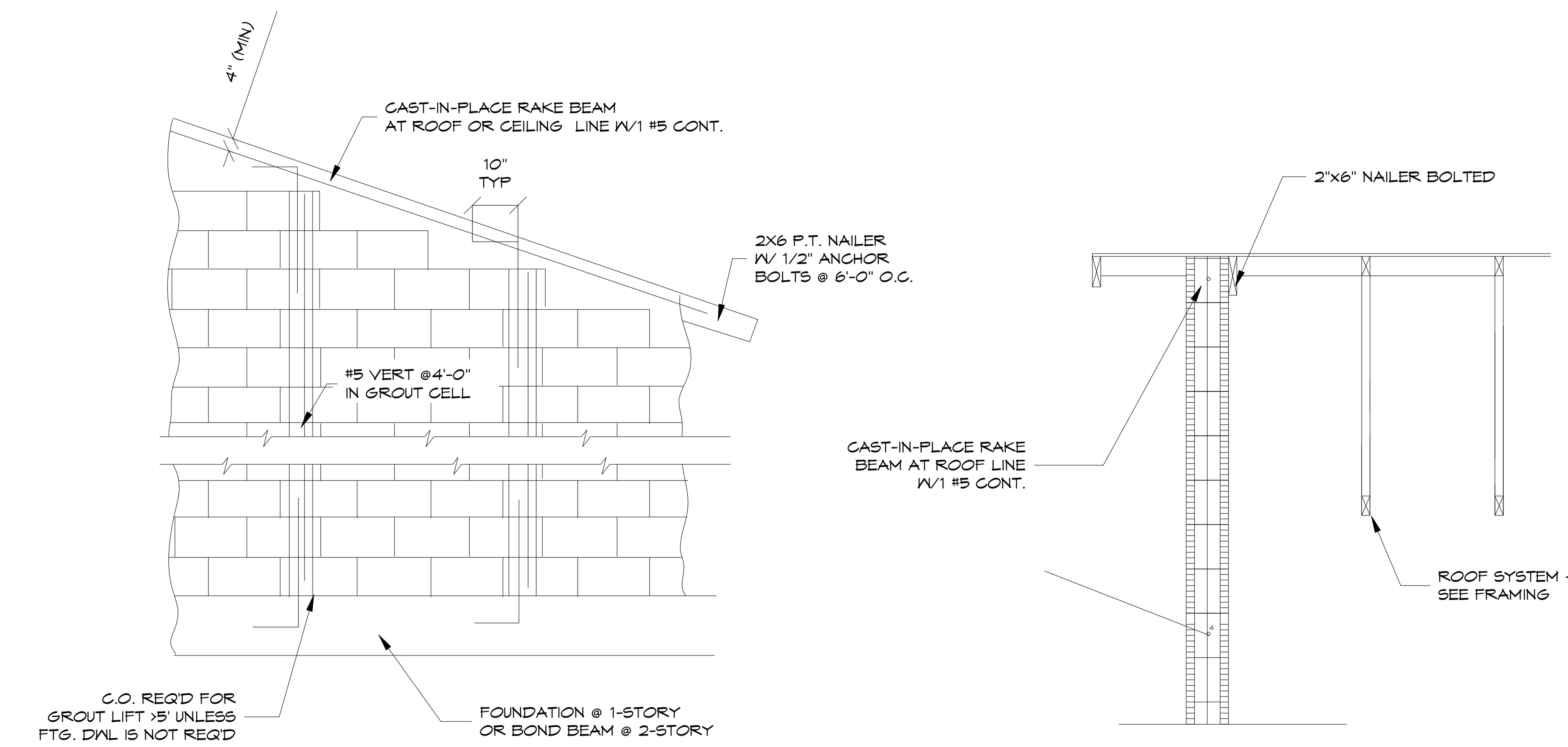
7 SD5 GABLE END - BALOON FRAME
N.T.S.

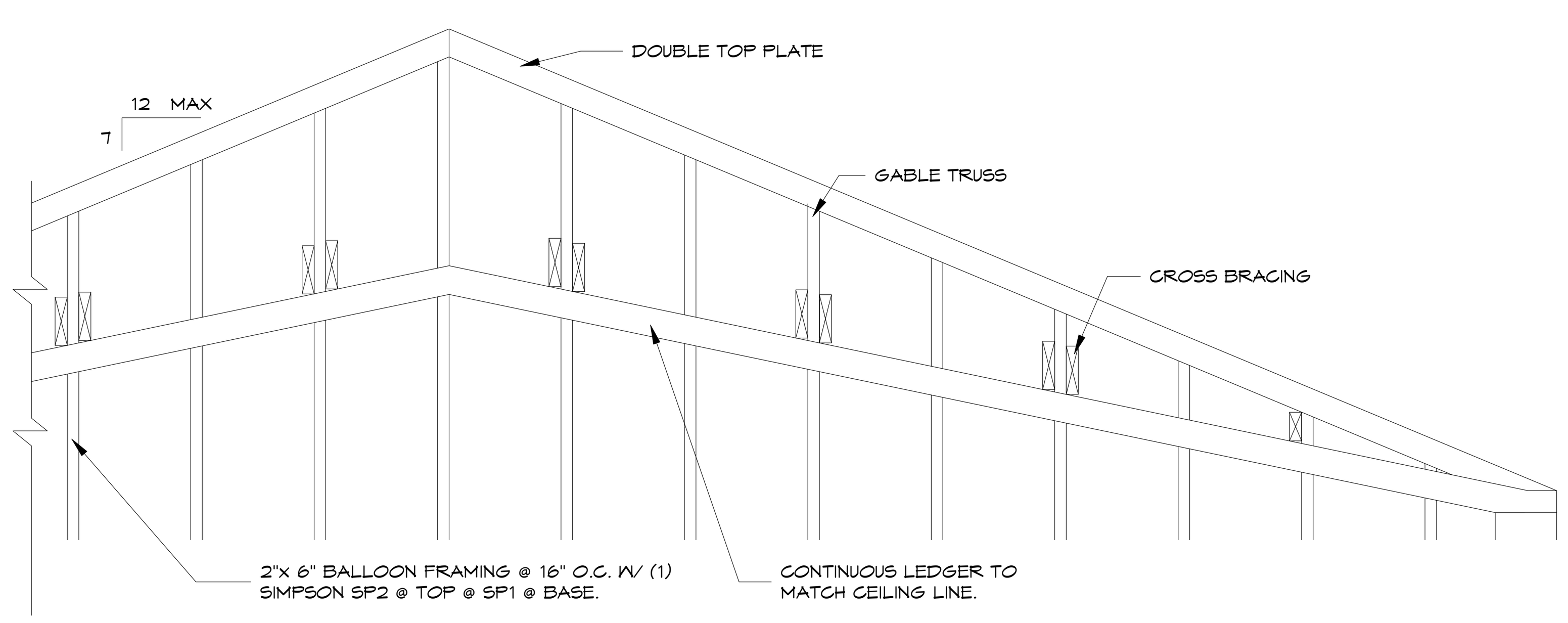


3 SD5 GABLE END OVER FRAME WALL - FLAT CLG
N.T.S.

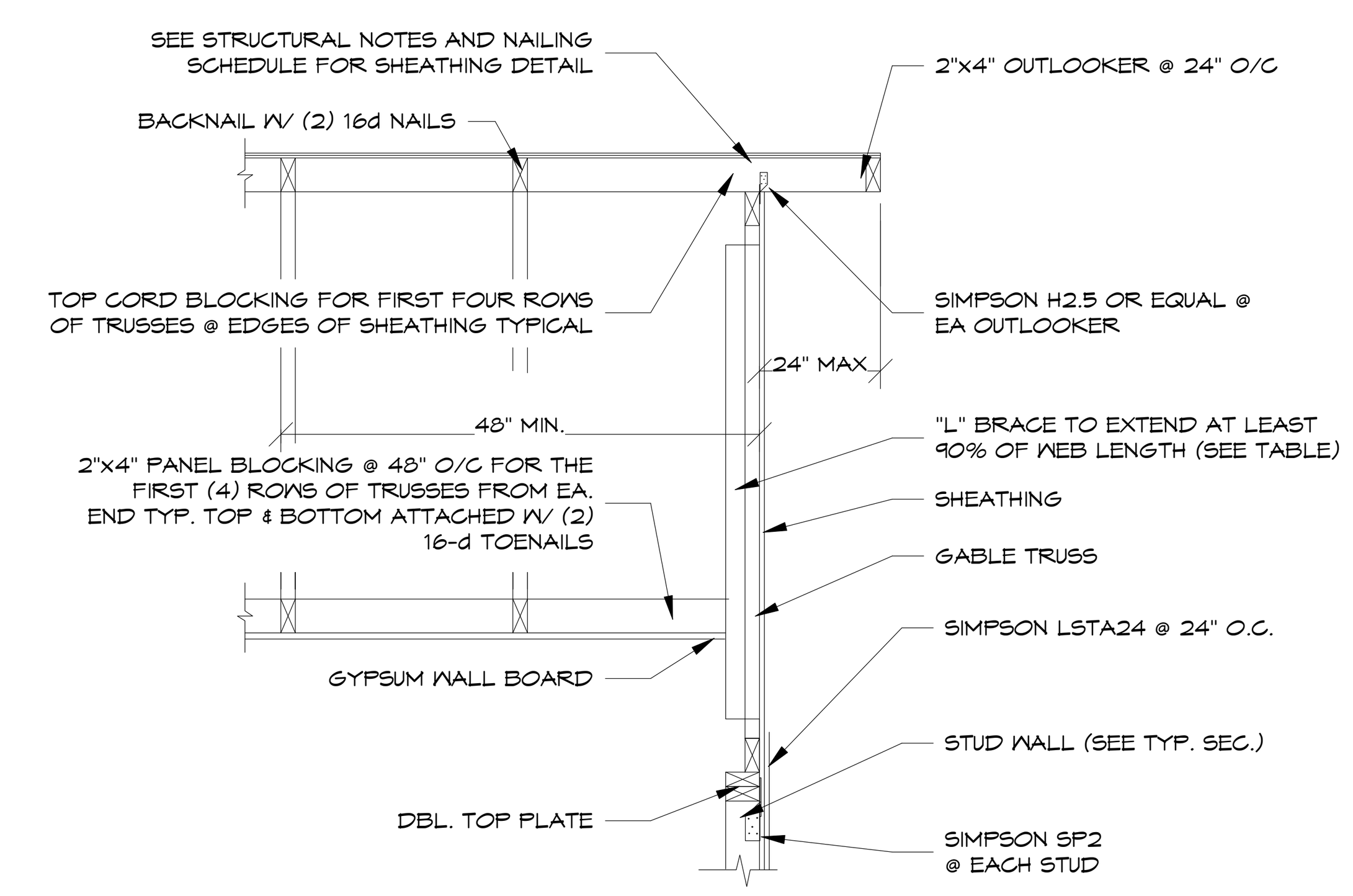


4 SD5 SECTION GABLE END OVER FRAME - FLAT CLG
N.T.S.





5 SD5 GABLE END OVER FRAME WALL - VAULTED
N.T.S.



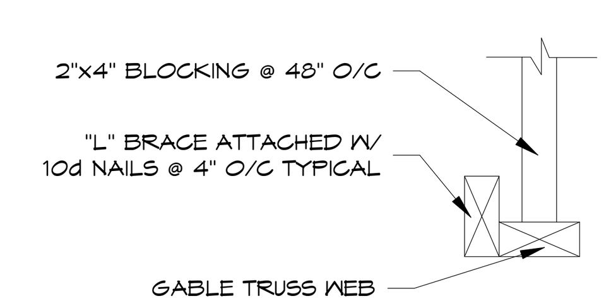
6 SD5 SECTION GABLE END OVER FRAME -VAULTED
N.T.S.

8 SD5 GABLE END - RAKE BEAM
N.T.S.

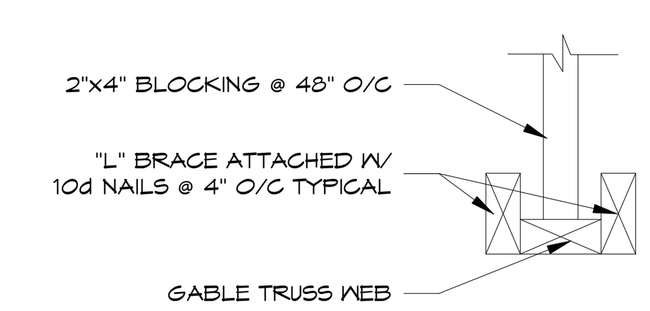
"L" BRACE TO EXTEND AT LEAST 90% OF WEB LENGTH (SEE TABLE)

STUD SPACING	"L" BRACE			
	NONE	(1) 2"x4"	(2) 2"x4"	(2) 2"x6"
16"	0'-0"-4'-5"	4'-5"-8'-0"	8'-0"-12'-0"	12'-0"-16'-0"
24"	0'-0"-4'-0"	4'-0"-7'-0"	7'-0"-10'-0"	10'-0"-14'-0"

9 SD5 GABLE END " L" BRACING NOTES
N.T.S.



10 SD5 SINGLE "L" BRACING
N.T.S.



11 SD5 DOUBLE "L" BRACING
N.T.S.

PERMIT DOCUMENTS

INTEGRAL ENGINEERING, INC.
16704 Tobacco Road, Lutz, FL 33558
Phone: (813) 908-0402 | Fax: (813) 969-0206 | EB # 8253

I HEREBY CERTIFY THAT, AS A STRUCTURAL ENGINEER, I HAVE REVIEWED THIS DESIGN AND FOUND IT TO BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE, 7th EDITION, 2020.

SIGNED AND SEALED FOR THE STRUCTURAL ENGINEERING PORTION OF THIS DRAWING ONLY TO ENSURE THAT THE PLANNED STRUCTURE WILL BE SUFFICIENTLY STRONG TO CARRY ITS INTENDED GRAVITY, LATERAL AND UPLIFT LOADS. STRUCTURAL INCLUDES DESIGN OF LOAD BEARING ELEMENTS.

ARCHITECTURAL, WATER INTRUSION PROTECTION, MECHANICAL, ELECTRICAL, FIRE PROTECTION, EGRESS, ACCESSIBILITY, ENERGY CONSERVATION, FUEL GAS, STUCCO APPLICATION, & PLUMBING DESIGN INCLUDED IN THIS DRAWING ARE INCIDENTAL AND/OR FOR INFORMATION PURPOSES ONLY AND THEIR DESIGN SHALL NOT BE THE STRUCTURAL ENGINEER RESPONSIBILITY.

THIS DRAWING IS VALID FOR 12 MONTHS AFTER THE DATE IT IS SIGNED & SEALED.

LUIS CARLOS CORREA LICENSE No 49018 STATE OF FLORIDA PROFESSIONAL ENGINEER

10/29/2021

LUIS C. CORREA, FL P.E., S.I. #49018

REVISIONS

No.	DESCRIPTION	DATE

Client

MOBLEY CUSTOM HOMES

SINGLE FAMILY HOMES

ALL MODELS IIN 145 MPH EXPOSURE B

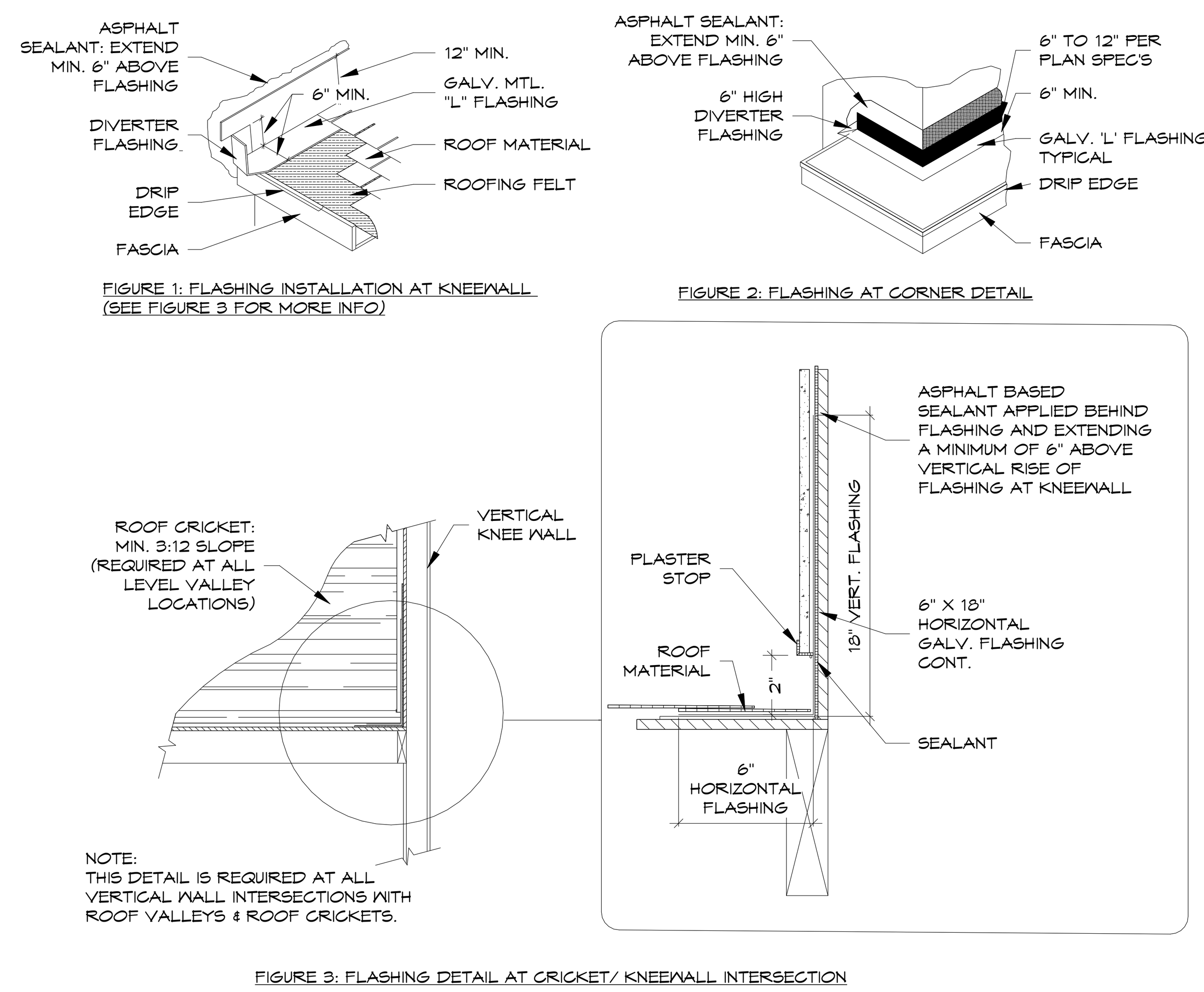
FLORIDA

JOB NO: 90 PROJ MGR: LCC
DRAWN: LCC CHECKED:

GABLE END DETAILS

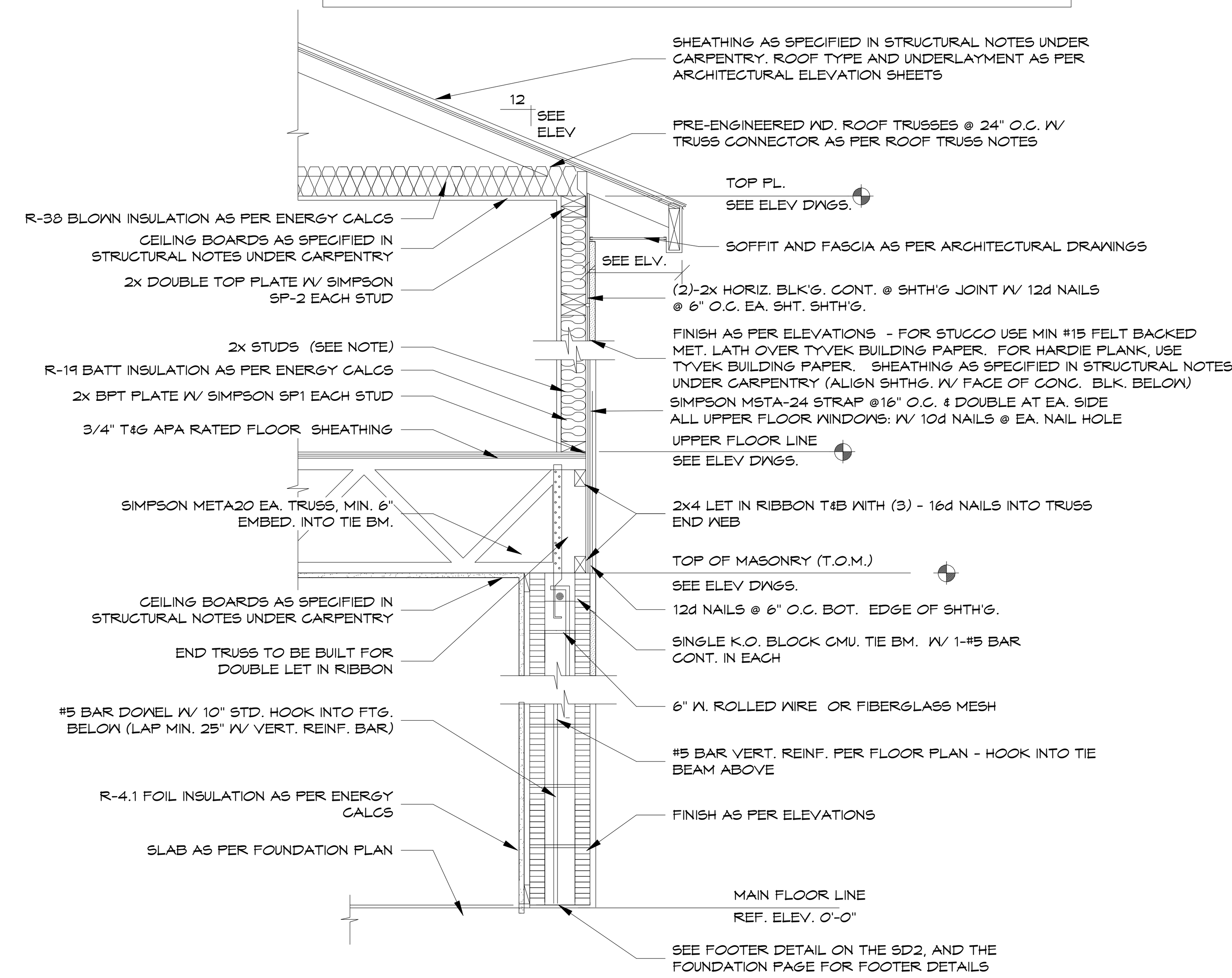
SD5

Original drawing is 24 x 36 Do not scale contents of drawing

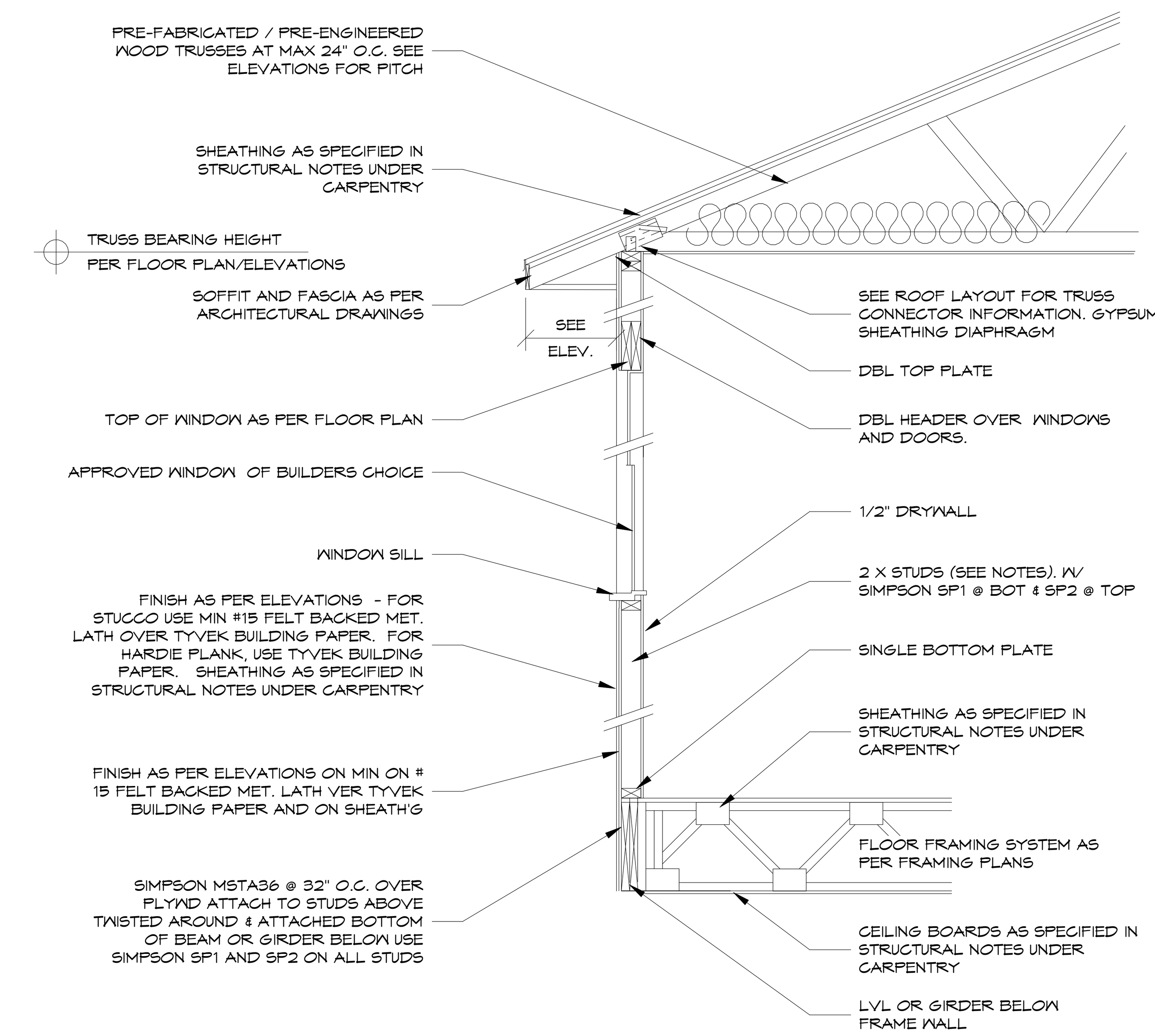


1 / SD6 **TYP FLASHING DETAILS**
N.T.S.

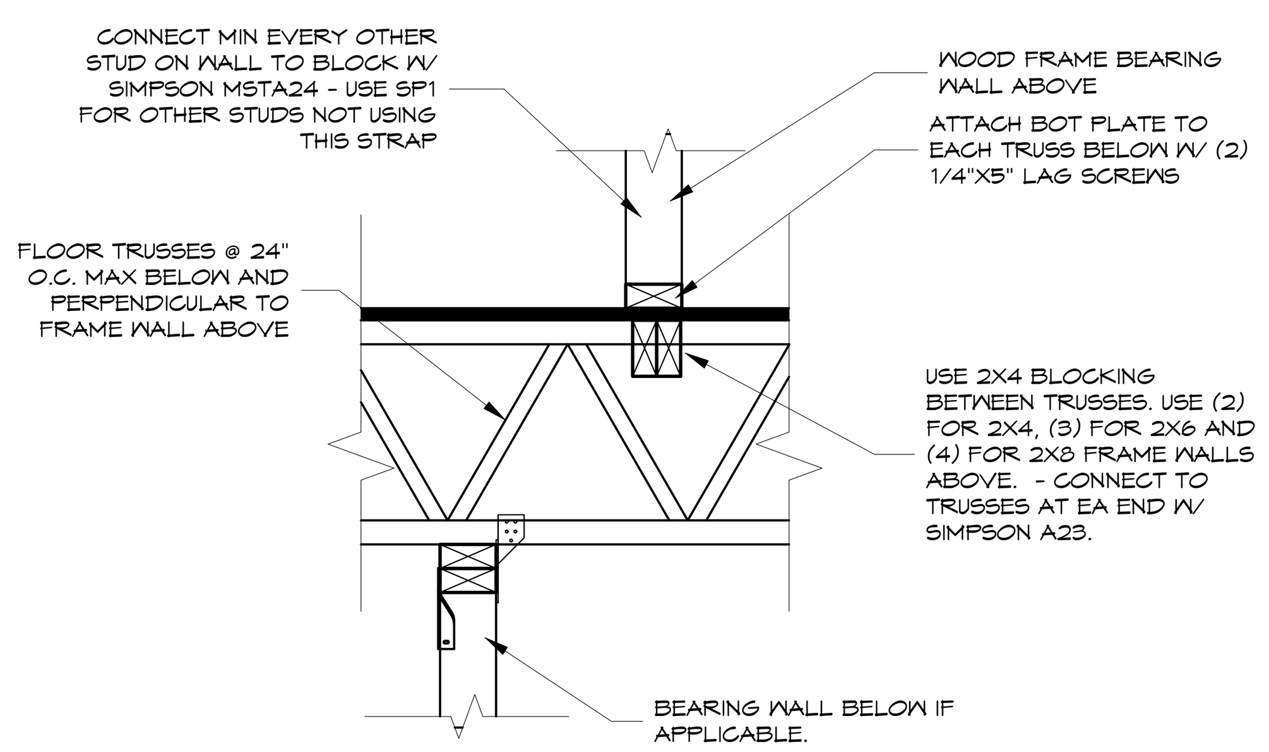
VERIFY ALL TRUSS ANCHORS SPECIFIED WITH UPLIFT LOADS PER TRUSS MANUF. SHOP DRWGS.



2 / SD6 **TYP EXTERIOR 2-STORY WALL SECTION**
N.T.S.

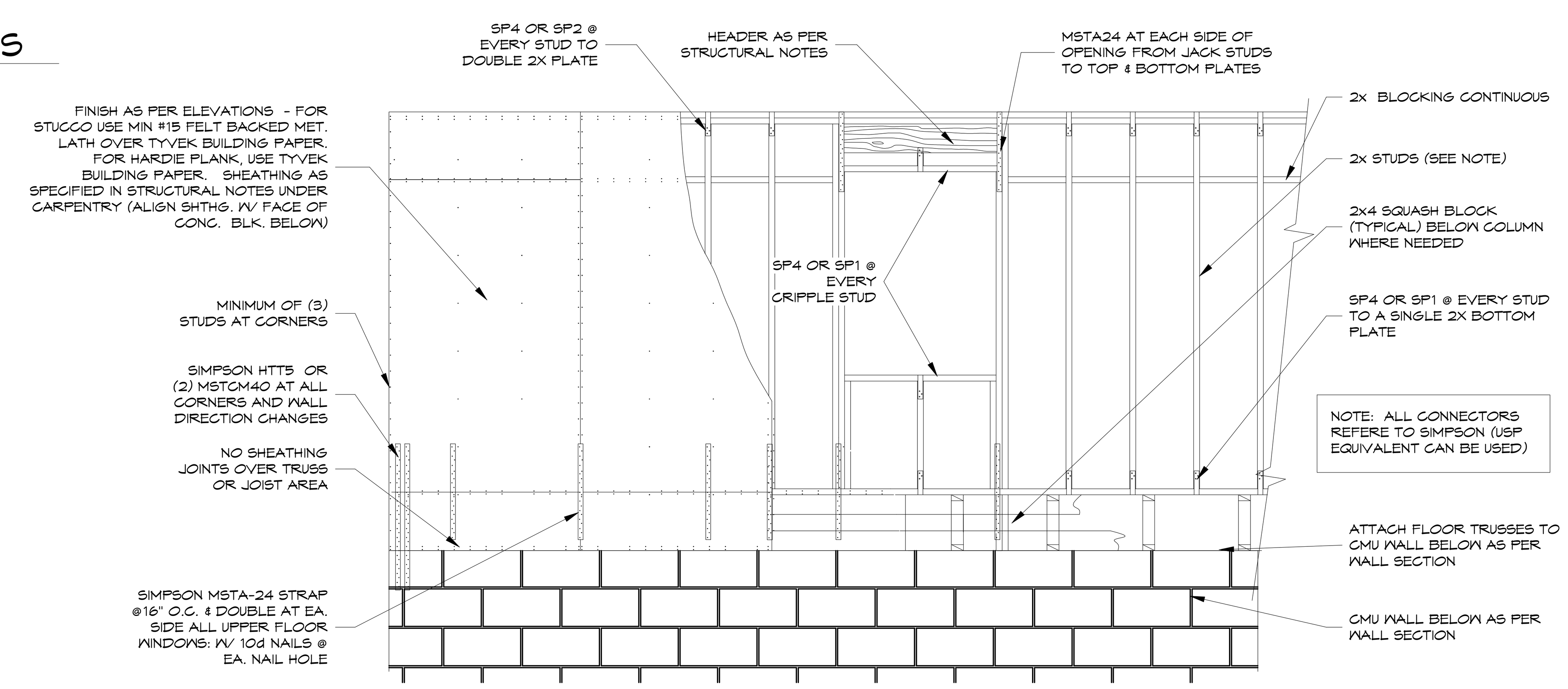


3 / SD6 **TYP WALL OVER BEAM OR GIRDER**
N.T.S.

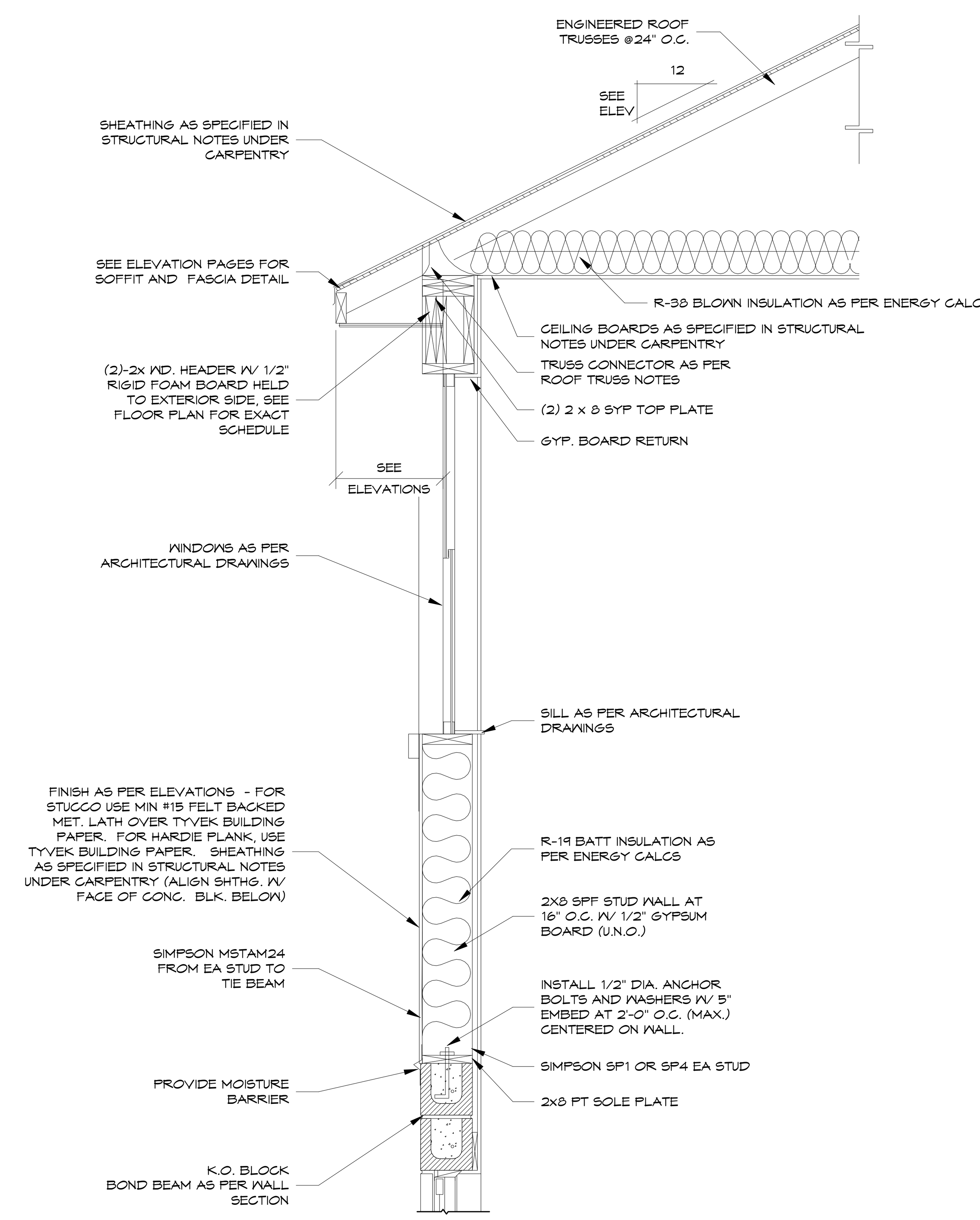


6 / SD6 **BEARING WALL OVER PERP FLOOR TRUSS**
N.T.S.

WALL SECTIONS SHOWN HEREIN IS TO INDICATE THE REQUIRED STRUCTURAL ELEMENTS AND CONNECTIONS ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONAL AND ANY OTHER NON-STRUCTURAL INFORMATION



4 / SD6 **PERFORATED FRAME SHEARWALL TO CMU WALL**
N.T.S.



11 / SD6 **TYP TWO STORY WALL SECTION W NO FLOOR SYS**
N.T.S.

INTEGRAL ENGINEERING, INC.

LUIS C. CORREA, FL P.E., S.I. #49018

REVISIONS

No.	DESCRIPTION	DATE

Client
MOBLEY CUSTOM HOMES

SINGLE FAMILY HOME AT
TYPICAL ALL MODELS
FLORIDA - 145 MPH EXP B

JOB NO: 90 PROJ MGR: LCC
DRAWN: LCC CHECKED:

TWO STORY WALL SECTIONS

PERMIT DOCUMENTS

SD6