

HERNANDEZ RESIDENCE-FRAMING

S22202

PROJECT INFORMATION

CLIENT
TRIGEN HOMES

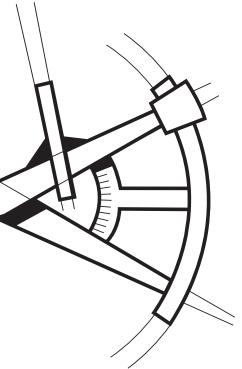
PROJECT ADDRESS
216 SHELF ROCK ROAD
GEORGETOWN, TX

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LONGITUDE
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ENGINEERING & DESIGN



REVISIONS

△	DESCRIPTION	DATE	BY
-	-	-	-

CODES

ENGINEERED PER:
2015 (IRC) INTERNATIONAL RESIDENTIAL CODE
2015 (IBC) INTERNATIONAL BUILDING CODE

PROJECT NAME

216 SHELF ROCK ROAD
GEORGETOWN, TX

PROJECT NUMBER
S22202

SHEET INDEX

CHECKED BY - AP
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SHEET DATE - 08/31/2022
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SCALE

24X36 SHEET: 1/4" = 1'-0"

COVER SHEET
DESCRIPTION
SHEET
S-0

GENERAL STRUCTURAL NOTES

DESIGN CRITERIA	
CODE: 2015 IBC/IRC & AMENDMENTS AS ADOPTED BY THE REVIEWING AGENCY/COUNTY.	STRENGTH MAY BE ACHIEVED BY USING APPROVED ADMIXTURES.
ROOF LIVE LOAD20PSF	5. CURING: COMPLY WITH ACI-301. KEEP CONCRETE MOIST FOR SEVEN DAYS MINIMUM.
FLOOR LIVE LOAD RESIDENTIAL.....40 PSF	6. JOINTING: PROVIDE ADEQUATE JOINTING TO MINIMIZE EFFECTS OF VOLUME CHANGE. JOINTS SHOWN MAY BE ADJUSTED AT CONTRACTOR'S OPTION, WITH PRIOR APPROVAL FROM ENGINEER.
BALCONY/DECK.....50 PSF	7. WEATHER EXTREMES: COMPLY WITH ACI 305R FOR HOT WEATHER. COMPLY WITH ACI 306R FOR COLD WEATHER.
BASIC WIND SPEED115 MPH, EXPOSURE B	8. WATER/CEMENT RATIO SHALL NOT EXCEED 0.50 (BY WEIGHT), TYPICAL.
GENERAL CONDITIONS	
1. THE CONTRACTOR SHALL EXAMINE THE STRUCTURAL DRAWINGS AND SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES HE MAY FIND BEFORE PROCEEDING WITH THE WORK.	REINFORCING STEEL
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE ARCHITECT/ENGINEER SHALL IMMEDIATELY BE NOTIFIED IN WRITING OF ANY DISCREPANCIES.	1. REFERENCE STANDARDS: ACI "DETAILING MANUAL" (SP-66); CRSI MANUAL OF STANDARD PRACTICE (MSP-1)
3. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.	2. MATERIALS: REINFORCING STEEL: ASTM A615, GRADE 60
4. IN CASE OF CONFLICT, NOTES AND DETAILS OF THESE STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THE "GENERAL NOTES" AND/OR "STANDARD DETAILS".	3. SPLICES:
5. IF A SPECIFIC DETAIL IS NOT SHOWN FOR ANY PART OF THE WORK, THE CONSTRUCTION SHALL BE THE SAME AS FOR SIMILAR WORK.	LAP CONTINUOUS REINFORCING BARS 48 BAR DIAMETERS, UNLESS OTHERWISE NOTED. PROVIDE CORNER BARS FOR ALL HORIZONTAL REINFORCEMENT.
6. WORKING DIMENSIONS SHALL NOT BE SCALLED FROM PLANS, SECTIONS, OR DETAILS ON THESE DRAWINGS.	4. COVER: FOOTINGS3 INCHES SLABS.....2 INCHES
7. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND THE STRUCTURAL ENGINEER OF ANY CONDITION WHICH IN HIS OPINION MIGHT ENDANGER THE STABILITY OF THE STRUCTURE OR CAUSE DISTRESS TO THE STRUCTURE.	5. FORMED SURFACES: WEATHER FACE ...1-1/2 INCHES, #5 BARS AND SMALLER 2 INCHES, # 6 BARS AND LARGER INTERIOR FACE ...3/4 INCH FOR SLABS AND WALLS 1-1/2 INCHES FOR BEAMS AND COLUMNS
8. THE CONTRACTOR SHALL SUPERVISE AND DIRECT HIS WORK AND HE SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. PROVIDE ADEQUATE SHORING AND BRACING OF ALL STRUCTURAL MEMBERS DURING CONSTRUCTION.	STRUCTURAL AND MISC. STEEL 1. REFERENCE STANDARDS: DESIGN, FABRICATION AND ERECTION ARE TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES". MATERIALS: BOLTS - ASTM A307, UNLESS OTHERWISE NOTED WF BEAMS - ASTM A572-50 (Fy = 50,000 PSI) HSS ROUND COLUMNS - ASTM A500 Gr. B (Fy = 42,000 PSI) HSS RECTANGULAR COLUMNS - ASTM A500 Gr. B (Fy = 46,000 PSI) ALL OTHER STEEL - ASTM A36 (Fy = 36,000 PSI)
9. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE, AND ALL OTHER REGULATING AGENCIES EXERCISING AUTHORITY OVER ANY PORTION OF THE WORK.	STRUCTURAL STEEL WELDING 1. CONFORM TO THE AWS CODES D1.1 AND D1.3., AND USE ONLY CERTIFIED WELDERS. WELDS NOT SPECIFIED ARE TO BE 1/4" CONTINUOUS FILLET MINIMUM. USE DRY E70 ELECTRODES.
10. SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE THE NOTES, DRAWINGS, AND/OR SPECIFICATIONS DIFFER, THE MORE STRINGENT REQUIREMENT SHALL APPLY.	DIMENSIONAL LUMBER 1. MEET REQUIREMENTS OF PS 20-70 AND NATIONAL GRADING RULES FOR SOFTWOOD DIMENSIONAL LUMBER. BEAR STAMP OF WWPA.
11. REFER TO THE ARCHITECTURAL DRAWINGS FOR INFORMATION NOT COVERED BY THESE GENERAL NOTES OR THE STRUCTURAL DRAWINGS.	2. MINIMUM DIMENSIONAL LUMBER GRADES TO BE: WALL STUDS: 2x, HF/SYP STUD GRADE, 3x HF #2 WALL PLATES: 2x HF/SYP STANDARD GRADE PRESSURE TREATED IN CONTACT WITH CONCRETE JOISTS 2x6 HF/SYP #2 2x8 AND UP HF/SYP #2 BEAMS, HEADERS: 6x HF/SYP#2; 4x HF/SYP#2, WWPA GRADING. POSTS: 4x, 6x, HF/DF #2
12. NOTIFY ENGINEER OF ALL FIELD CHANGES PRIOR TO INSTALLATION.	3. PROVIDE STANDARD CUT WASHERS FOR NUTS BEARING AGAINST WOOD.
13. DISCREPANCIES FOUND BETWEEN STRUCTURAL DRAWINGS AND OTHER DOCUMENTS ARE TO BE NOTED IN WRITING TO THE ENGINEER PRIOR TO CONSTRUCTION.	4. ALL SILLS OR PLATES RESTING ON CONCRETE OR MASONRY, WHICH IS IN CONTACT WITH OR RESTING ON FOUNDATIONS, SHALL BE PRESSURE TREATED HEM FIR OR BETTER. ALL BEARING WALL PLATES SHALL HAVE 5/8"Ø ANCHOR BOLTS PLACED A MAXIMUM 9" FROM THE END OF A PLATE AND SPACED AT INTERVALS SHOWN ON THE SHEARWALL SCHEDULE (MAXIMUM 6'-0" O.C. SPACING). ALL PRESSURE TREATED WOOD MEMBERS SHALL COMPLY WITH AWP4 U1 AND AWP4 M4 STANDARDS.
14. ALL CONSTRUCTION SHALL BE DONE WITH MATERIALS, METHODS, AND WORKMANSHIP ACCEPTED AS GOOD PRACTICE BY THE CONSTRUCTION INDUSTRY IN CONFORMANCE TO THE PROVISIONS OF THE "INTERNATIONAL BUILDING CODE" (IBC), AND STANDARDS REFERENCED THEREIN.	5. CAST-IN-PLACE ANCHOR BOLTS SHALL HAVE A MINIMUM 7" EMBEDMENT. ALTERNATE 5/8"Ø EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT II ANCHORS EMBED 7", OR APPROVED ALTERNATE.
FOUNDATION	6. BOLTS IN WOOD BEAMS SHALL NOT BE LESS THAN 7 DIAMETERS FROM THE END AND 4 DIAMETERS FROM THE EDGE OF THE MEMBER.
1. FOUNDATION DESIGN PARAMETERS ASSUMED PER GEOTECHNICAL INVESTIGATION REPORT PROVIDED BY HENLEY JOHNSTON AND ASSOCIATES, REPORT # 20569G DATED DEC 30, 2019.	7. NAILS: NAILING IN ACCORDANCE WITH IBC TABLE 2304.10.1. 16D NAILS MAY BE 16D SINKERS (0.148 x 3-1/4") UNLESS NOTED OTHERWISE.
2. SUBGRADE PREPARATION, DRAINAGE PROVISIONS, AND OTHER RELEVANT SOIL CONSIDERATIONS ARE TO BE IN ACCORDANCE WITH THE JURISDICTIONAL REQUIREMENTS.	8. PRESSURE TREATED WOOD: ALL NAILS INTO PT WOOD SHALL BE HOT DIPPED GALVANIZED PER ASTM A153 OR STAINLESS STEEL. ALL METAL CONNECTORS IN CONTACT WITH PT WOOD SHALL BE HOT DIPPED GALVANIZED AND MEET ASTM A653 CLASS G185 (1.85 oz of ZINC PER SQ FT MINIMUM) OR TYPE 304 / 316 STAINLESS STEEL. SIMPSON Z-MAX CONNECTORS MEET THIS REQUIREMENT. FASTENERS AND CONNECTORS USED TOGETHER SHALL BE OF THE SAME TYPE (E.G. HOT DIPPED NAILS WITH HOT DIPPED HANGERS)
3. ALL FOUNDATIONS ARE TO BEAR ON COMPETENT NATIVE SOILS OR STRUCTURAL FILL. STRUCTURAL FILL IS TO BE COMPAKTED TO 95% DENSITY PER ASTM D-1557.	
CONCRETE	
1. REFERENCE STANDARDS: ACI-301, ACI-318, IBC.	5. CAST-IN-PLACE ANCHOR BOLTS SHALL HAVE A MINIMUM 7" EMBEDMENT. ALTERNATE 5/8"Ø EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT II ANCHORS EMBED 7", OR APPROVED ALTERNATE.
MINIMUM CONCRETE STRENGTH (28 DAYS):	6. BOLTS IN WOOD BEAMS SHALL NOT BE LESS THAN 7 DIAMETERS FROM THE END AND 4 DIAMETERS FROM THE EDGE OF THE MEMBER.
FOOTINGS AND STEM WALLS.....3,000 PSI - 5 SACK MIX	7. NAILS: NAILING IN ACCORDANCE WITH IBC TABLE 2304.10.1. 16D NAILS MAY BE 16D SINKERS (0.148 x 3-1/4") UNLESS NOTED OTHERWISE.
POST-TENSIONED SLAB.....PER PT-FOUNDATION NOTES	8. PRESSURE TREATED WOOD: ALL NAILS INTO PT WOOD SHALL BE HOT DIPPED GALVANIZED PER ASTM A153 OR STAINLESS STEEL. ALL METAL CONNECTORS IN CONTACT WITH PT WOOD SHALL BE HOT DIPPED GALVANIZED AND MEET ASTM A653 CLASS G185 (1.85 oz of ZINC PER SQ FT MINIMUM) OR TYPE 304 / 316 STAINLESS STEEL. SIMPSON Z-MAX CONNECTORS MEET THIS REQUIREMENT. FASTENERS AND CONNECTORS USED TOGETHER SHALL BE OF THE SAME TYPE (E.G. HOT DIPPED NAILS WITH HOT DIPPED HANGERS)
BASEMENT FOUNDATION RETAINING WALLS.....3,000 PSI - 5 SACK MIX	
SLAB-ON-GRADE.....2,500 PSI - 5 SACK MIX	
SLAB-ON-GRADE EXPOSED TO WEATHERING.....3,000 PSI	
AIR-ENTRAINMENT 2.5% TO 5.5% FOR EXPOSED CONCRETE.	
2. MIXING: COMPLY WITH ACI-301. DO NOT EXCEED THE AMOUNT OF WATER SPECIFIED IN THE APPROVED MIX. PROPORTIONS OF AGGREGATE TO CEMENT SHALL BE SUCH AS TO PRODUCE A DENSE WORKABLE MIX WHICH CAN BE PLACED WITHOUT SEGREGATION OR EXCESS FREE SURFACE WATER	
3. PLACING: COMPLY WITH ACI-301. PROVIDE A 3/4 INCH CHAMFER ALL EXPOSED CONCRETE EDGES, UNLESS INDICATED OTHERWISE ON ARCHITECTURAL DRAWINGS.	
4. SLUMP: 4" PLUS OR MINUS ONE INCH. DO NOT ADD WATER TO MIX TO INCREASE SLUMP. GREATER SLUMP, ACCELERATED SET, OR HIGH EARLY	

ABBREVIATIONS

AB	ANCHOR BOLT	DS	DOWN SPOUT	PSF	POUNDS PER SQUARE FOOT
ABV	ABOVE	EA	EACH	PSI	POUNDS PER SQUARE INCH
AFF	ABOVE FINISH FLOOR	EF	EACH FACE	PT	PRESSURE TREATED
ALT	ALTERNATE	EJ	EXPANSION JOINT	RAF	RAFTER
ALUM	ALUMINUM	ELEV	ELEVATION	REF	REFERENCE
APPROX	APPROXIMATE	EN	EDGE NAILING (PANEL)	REINF	REINFORCEMENT
AYC	ALASKAN YELLOW CEDAR	EOR	ENGINEER OF RECORD	REQD	REQUIRED
BB	BOX BEAM	EQ	EQUAL	REQS	REQUIREMENTS
BF	BOTTOM FLUSH	ES	EACH SIDE	SF	SQUARE FOOT
BLDG	BUILDING	EW	EACH WAY	SHTG	SHAPING
BLKG	BLOCKING	FB	FLUSH BEAM	SIM	SIMILAR
BM	BEAM	FIN	FINISH	SPF	SPRUCE PINE FIR
BOT	BOTTOM	FL	FLOOR	STD	STANDARD
BP	BOTTOM PLATE	FLSHG	FLASHING	SYP	SOUTHERN YELLOW PINE
BRG	BEARING	FND	FOUNDATION	T/	TOP OF
BTWN	BETWEEN	FP	FIREPLACE	T/BM	TOP OF BEAM
BSMT	BASEMENT	FT	FOOT	T/CONC	TOP OF CONCRETE
B/W	BOTTOM OF WALL	FTG	FOOTING	T/PL	TOP OF PLATE
CANT	CANTILEVER	GA	GAUGE	T/SLAB	TOP OF SLAB
CJ	CONTROL JOINT	GALV	GALVANIZED	T/ST	TOP OF STEEL
CLG.	CEILING	GLB	GLULAM BEAM	T/W	TOP OF WALL
CLJ	CEILING JOIST	GR	GRADE	TF	TOP FLUSH
CLR	CLEAR	GYP	GYPSUM WALL BOARD	TR	TRIPLE JOIST
CMU	CONCRETE MASONRY UNIT	HDG	HOT-DIPPED GALVANIZED	TP	TOP PLATE
COL	COLUMN	HDR	HOT-DIPPED GALVANIZED	UO	UNLESS NOTED OTHERWISE
CONC	CONCRETE	HF	HEM FIR	VIF	VERIFY IN FIELD
CONN	CONNECTION	HGT	HEIGHT	W/	WITH
CONST	CONSTRUCTION	HT	HEIGHT	WUA	UNDER WALL ABOVE
CONT	CONTINUOUS	IN	INCH	VERT	VERTICAL
CTR	CENTER	JT	JOINT	VCB (V.C.B.)	VERTICAL CRUSH BLOCKING
DET	DETAIL	MAX	MAXIMUM	W/	WITH
DF	DOUGLAS FIR (SOUTH)	MIN	MINIMUM	WC	WESTERN CEDAR
DFL	DOUGLAS FIR LARCH	MISC	MISCELLANEOUS	WP	WATERPROOF
DIM	DIMENSION	NB	NON-BEARING	WWF	WOOD STRUCTURAL PANEL
DJ	DOUBLE JOIST	NO	NUMBER		
DIA	DIAMETER	OC	ON CENTER		
DN	DOWN	PL	PLATE		

REVISIONS

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-	-	-

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GEORGETOWN, TX

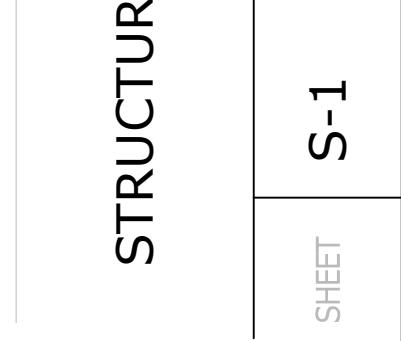
PROJECT NUMBER
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CHECKED BY - AP

SHEET DATE - 08/31/2022

SCALE
24X36 SHEET: 1/4"=1'-0"

STRUCTURAL GENERAL NOTES
S-1
DESCRIPTION
SHEET



CEILING FRAMING NOTES

- GENERAL STRUCTURAL NOTES AND ABBREVIATIONS PER SHEET S-1.
- VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCH.
- CEILING JOISTS SHOULD BE 2X6@24" O.C. UNO.
- CEILING JOISTS 2X10 AND LARGER SHOULD HAVE 1X4 CONTINUOUS WOOD STRIP NAILED ACROSS THE JOISTS @ 8'-0" O.C. MAX.
- ALL BEAMS SHALL BE SUPPORTED BY MIN TWO STUDS BELOW EACH END, UNLESS NOTED OTHERWISE ON PLAN. ALL BEAMS SHALL BE FRAMED FLUSH WITH JOISTS UNO. "DROPPED BEAM" OR "DB" INDICATES T/BEAM EQUAL B/JOISTS. "TOP FLUSH" OR "TF" INDICATES T/BEAM EQUAL T/JOISTS AND B/BEAM EXTENDING BELOW B/JOISTS. "BOTTOM FLUSH" OR "BF" INDICATES B/BEAM EQUAL B/JOISTS AND T/BEAM EXTENDING ABOVE T/JOISTS.
- STUD QUANTITIES, POST SIZE, HOLDOWN, AND SHEARWALL REQUIREMENTS PER WALL FRAMING AND SHEARWALL PLAN.
- ALL POSTS ABOVE THE FLOOR FRAMING SHALL BE BLOCKED WITHIN THE FLOOR DEPTH ("VERTICAL GRAIN BLKG", "VERTICAL CRUSH BLKG", OR "VCB"). BLOCKING WIDTH SHALL MATCH WIDTH OF POST OR BUNDLED STUDS ABOVE AND EXTEND FULL FLOOR DEPTH.
- HORIZONTAL STRAPS INDICATED ON FRAMING PLANS SHALL BE CENTERED OVER THE TOP PLATE SPLICE, BEAM, OR BLOCKING, UNO. STRAP LENGTH PER PLAN.
- ALL TIES AND HANGERS TO BE MANUFACTURED BY SIMPSON STRONG-TIE. INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS. ALTERNATIVE SOLUTIONS SHALL BE SUBMITTED TO EOR FOR APPROVAL PRIOR TO INSTALLATION. REFER TO TYPICAL HANGER SCHEDULE FOR HANGER SIZE UNO ON PLAN OR DETAILS.
- EACH PLY OF ALL 2X MULTI-PLY BEAMS TO BE CONNECTED WITH MINIMUM (2) ROWS OF 16d NAILS AT 6" O.C. STAGGERED. FOR ENGINEERED LUMBER NAILING REF APPROPRIATE DETAIL.
- ENGINEERED JOISTS AND TRUSSES TO BE DESIGNED BY OTHERS. REFER TO STRUCTURAL GENERAL NOTES FOR SUBMITTAL INFORMATION, AND DESIGN CRITERIA.
- FIRE-PROOFING AND MOISTURE-PROOFING REQUIREMENTS BY OTHERS.



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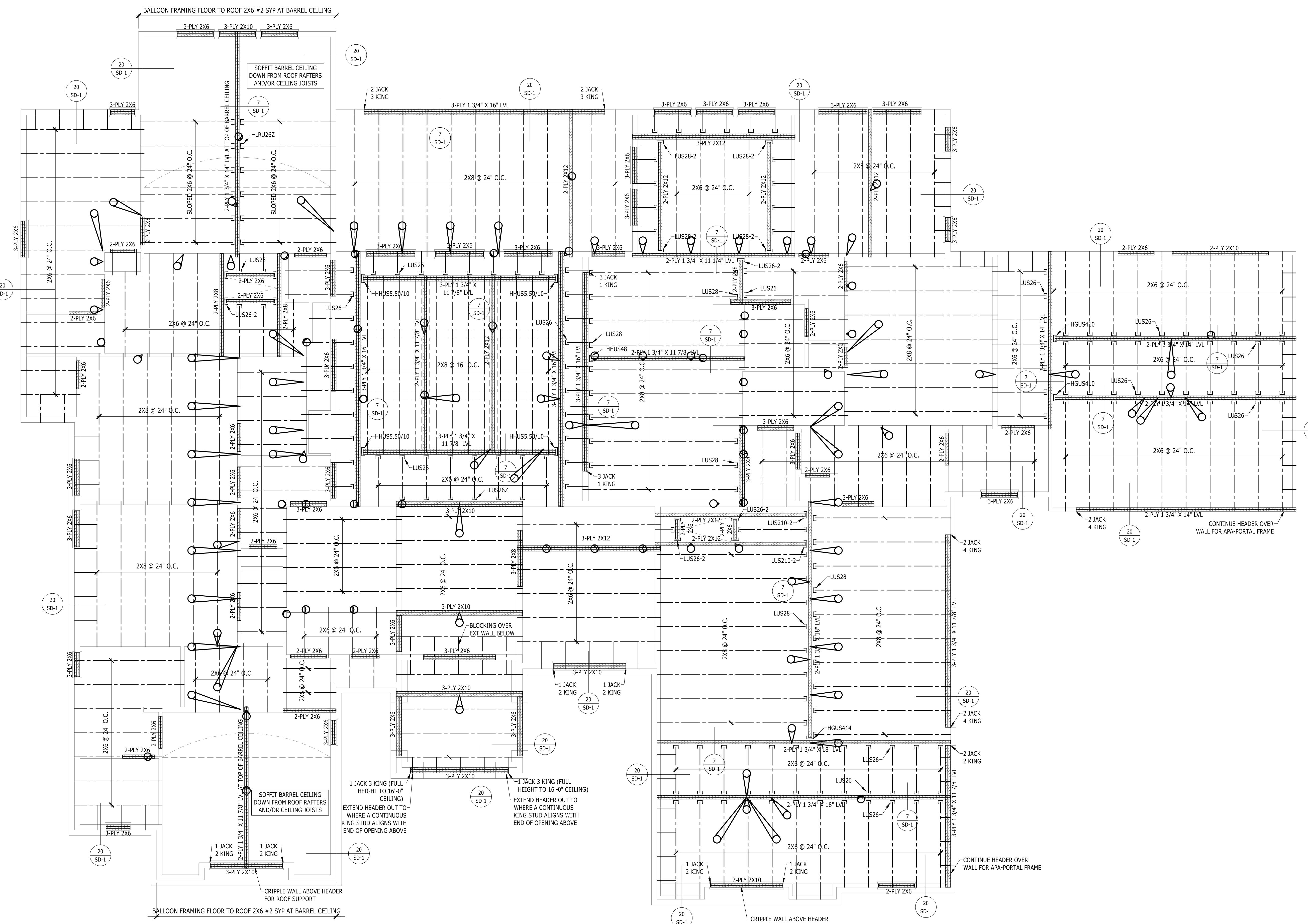
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SCALE

24X36 SHEET: 1/4"=1'-0"

CEILING FRAMING PLAN
DESCRIPTION
SHEET
S-3

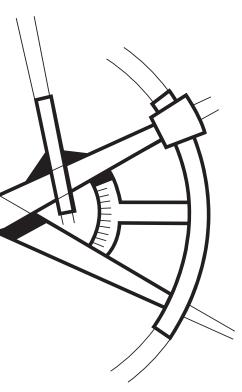


ROOF FRAMING NOTES

- GENERAL STRUCTURAL NOTES AND ABBREVIATIONS PER SHEET S-1.
- VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCH.
- ROOF RAFTERS SHALL BE 2X6@24"O.C. UNO.
- ROOF SHEATHING PER GENERAL NOTES. ALL SHEATHING TO BE GLUED AND NAILED TO FRAMING PER MANUFACTURER RECOMMENDATIONS. USE 8d COMMON NAILS (0.131" X 2 1/2") @ 6" O.C. AT PANEL EDGES AND AT ALL FRAMING DESIGNATED "WITH EDGE NAILING" OR "W/E/N", AND 12" O.C. IN THE FIELD, UNO. PANEL EDGE JOINTS TO BE STAGGERED BETWEEN ADJACENT PANELS OF SHEATHING. PROVIDE GAP BETWEEN PANELS TO ALLOW FOR NATURAL EXPANSION/CONTRACTION (1/8" GAP TYP).
- ALL ROOF RAFTERS OR TRUSSES SHALL BE SPACED NO FURTHER APART THAN 24" O.C. AND SHALL BE CONNECTED TO TOP PLATE WITH H2.5 TIE UNO.
- LOCATE ALL OPENINGS AND PENETRATIONS AND VERIFY NO CONFLICT WITH ROOF FRAMING. MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS BY OTHERS.
- ALL BEAMS AND GIRDER TRUSSES SHALL BE SUPPORTED BY MIN TWO STUDS BELOW EACH END, UNLESS NOTED OTHERWISE ON PLAN. ALL BEAMS SHALL BE FRAMED FLUSH WITH JOISTS UNO. "DROPPED BEAM" OR "DB" INDICATES T/BEAM EQUAL B/JOISTS. "TOP FLUSH" OR "TF" INDICATES T/BEAM EQUAL T/JOISTS AND B/BEAM EXTENDING BELOW B/JOISTS. "BOTTOM FLUSH" OR "BF" INDICATES B/BEAM EQUAL B/JOISTS AND T/BEAM EXTENDING ABOVE T/JOISTS.
- ALL NON-BEARING WALLS TO BE FRAMED MIN 0.25" UNDER FLOOR SYSTEM.
- STUD QUANTITIES, POST SIZE, HOLDOWN, AND SHEARWALL REQUIREMENTS PER WALL FRAMING AND SHEARWALL PLAN BELOW.
- HORIZONTAL STRAPS INDICATED ON FRAMING PLANS SHALL BE CENTERED OVER THE TOP PLATE, BEAM, OR BLOCKING. STRAP LENGTH PER PLAN.
- ALL HANGERS TO BE MANUFACTURED BY SIMPSON STRONG-TIE. INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS. ALTERNATIVE SOLUTIONS SHALL BE SUBMITTED TO EOR FOR APPROVAL PRIOR TO INSTALLATION. REFER TO TYPICAL HANGER SCHEDULE FOR HANGER SIZE UNO ON PLAN OR DETAILS. HANGERS FOR ROOF TRUSSES BY OTHERS.
- ENGINEERED ROOF JOISTS AND ROOF TRUSSES TO BE DESIGNED BY OTHERS. REFER TO STRUCTURAL GENERAL NOTES FOR SUBMITTAL INFORMATION, AND DESIGN CRITERIA.
- STANDARD DEAD AND LIVE LOADS SHALL BE USED FOR TRUSS DESIGN. REFERENCE STRUCTURAL GENERAL NOTES FOR MORE INFORMATION.
- CHANGES TO LAYOUT MUST BE SUBMITTED TO THE ARCHITECT AND EOR FOR REVIEW AND APPROVAL.
- TRUSS SUBMITTAL PACKAGE TO BE PROVIDED TO EOR FOR REVIEW. REFERENCE STRUCTURAL GENERAL NOTES FOR SUBMITTAL REQUIREMENTS.
- (XXX LBS SHEAR/DRAG) INDICATES SHEAR TRANSFER LOAD. SHEAR TRUSS SHALL BE DESIGNED TO BE ABLE TO TRANSFER SPECIFIED LATERAL LOAD APPLIED AT THE TOP CHORD TO THE BOTTOM CHORD AND INTO SHEARWALL BELOW.
- ROOF TRUSSES SHOULD BE DESIGNED FOR ADDITIONAL LOADS WHERE APPPLICABLE AS SPECIFIED BY THE ARCHITECT (I.E. MECHANICAL UNITS, ROOF DECKS AND PATIOS, GREEN ROOFS, SOLAR UNITS AND ETC).
- TRUSS DESIGN FOR BEARING AT TOP PLATES TO BE DESIGNED FOR COMPRESSION PERPENDICULAR TO GRAIN.
- FIRE-PROOFING AND MOISTURE-PROOFING REQUIREMENTS BY OTHERS.
- ROOF COVERINGS AND ROOFING MATERIAL BY OTHERS.
- ROOF DRAINAGE BY OTHERS.
- ATTIC VENTILATION BY OTHERS.

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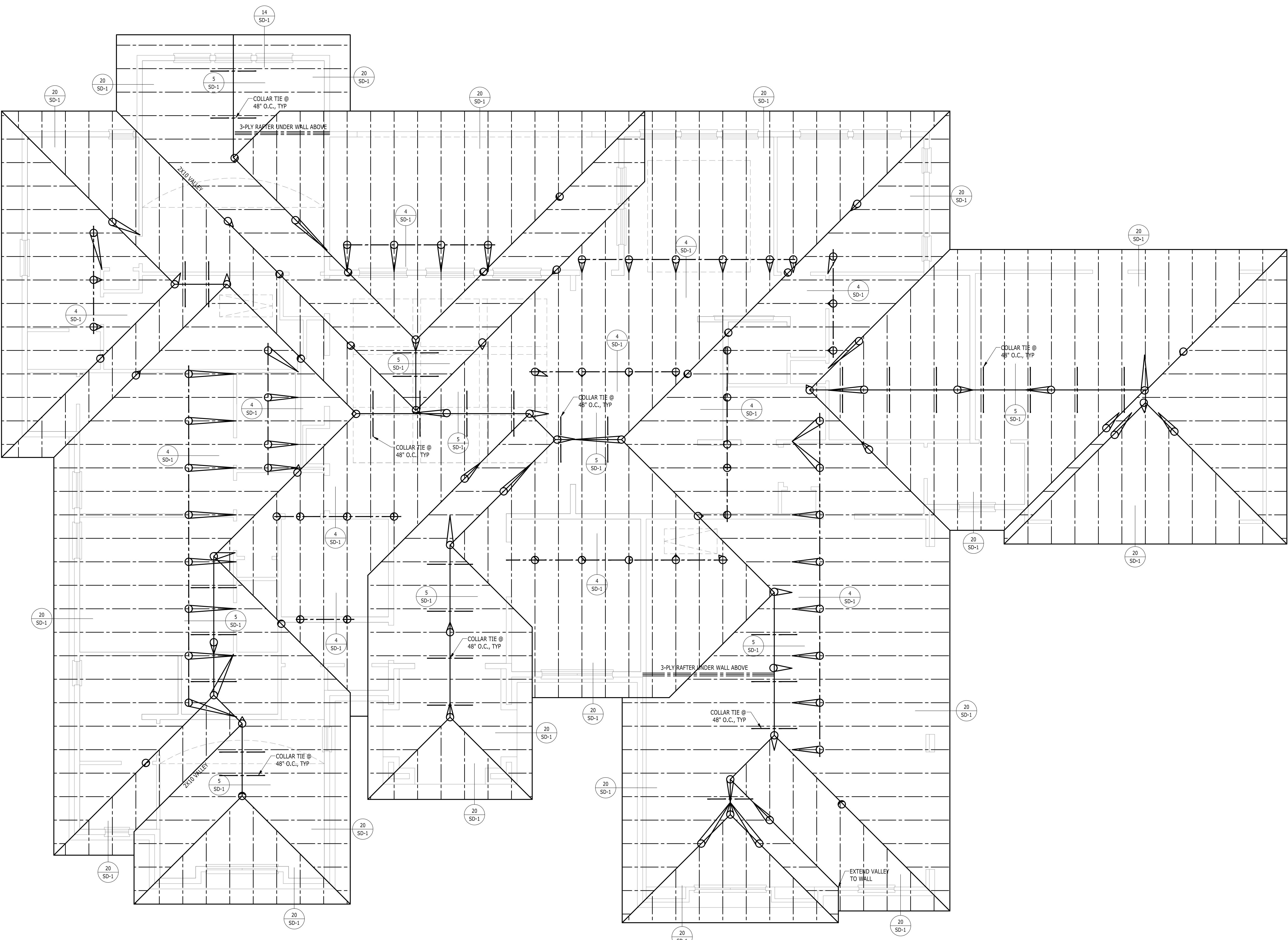
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SCALE
24X36 SHEET: 1/4" = 1'-0"

ROOF FRAMING PLAN
S-4
DESCRIPTION
SHEET

FRAMING LEGEND

- [Wood Joist symbol] - ROOF OVERFRAMING
- [Hanger symbol] - WOOD JOIST
- [Wood Beam symbol] - HANGER AS REQ'D
- [Wood Beam symbol] - 2X12
- [Wood Beam symbol] - CS16
- [Simpson Strap symbol] - WOOD BEAM
- [Simpson Strap symbol] - SIMPSON STRAP
- [Detail Callout symbol] - 1 SD-1 - DETAIL CALLOUT PER PLAN
(EX: DETAIL "1" ON SHEET SD-1")
- [Roof Brace symbol] - ROOF BRACE
- [High End symbol] - HIGH END
- [Low End symbol] - LOW END
- [Steel Beam symbol] - W10X15 - STEEL BEAM (EXAMPLE)

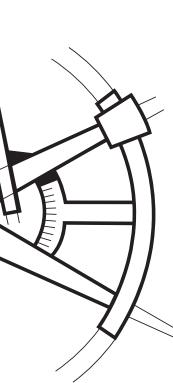


WALL FRAMING AND SHEAR WALL NOTES



- GENERAL STRUCTURAL NOTES AND ABBREVIATIONS PER SHEET S-1.
- VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCH.
- LUMBER GRADE PER GENERAL STRUCTURAL NOTES.
- ALL BUNDLED STUDS SPECIFIED PER PLAN SHALL BE CONNECTED TOGETHER WITH 16d @ 6'O.C. STAGGERED.
- EXTERIOR WALL STUDS SHALL BE 2X6 @ 16'O.C. ($\leq 10'$), 2X6 @ 12'O.C. ($> 10'$) UNO. INTERIOR BEARING WALL STUDS SHALL BE 2X4 @ 16'O.C. UNO. ALL INTERIOR NON-BEARING WALLS TO BE FRAMED MIN 0.25" UNDER FLOOR SYSTEM.
- PROVIDE ONE KING STUD AND ONE JACK STUD MINIMUM AT EVERY HEADER UNO. JACK STUDS SHOULD BE CONTINUOUS TO THE FOUNDATION AND SHALL HAVE VERTICAL CRUSH BLOCKING WIHTIN THE FLOOR FRAMING DEPTH MATCHING THE WIDTH OF JACK STUDS.
- SHEARWALL SHEATHING AND NAILING REQUIREMENTS PER SHEARWALL SCHEDULE. ALL EXTERIOR WALLS SHALL BE TYPE SW6 UNO.
- ALL SHEATHING PANEL EDGES TO OCCUR OVER STUDS, PLATES, RIMS OR HORIZONTAL BLOCKING. PANEL EDGE NAILING PER SHEARWALL SCHEDULE (6'O.C. MAX), FIELD NAILING AT 12" O.C. UNO.
- PROVIDE MIN TWO 2X STUDS AT EACH END OF SHEARWALL UNO. PROVIDE PANEL EDGE NAILING INTO EACH STUD AT END OF WALL. AT 6X POSTS SHOWN AT END OF SHEARWALL PROVIDE 3 ROWS OF PANEL EDGE NAILING.
- SHEARWALL PANEL EDGE STUDS INDICATE THE MINIMUM STUD WIDTH AT ABUTTING PANEL EDGES. TWO 2X STUDS ARE AN ACCEPTABLE ALTERNATE FOR 3X STUDS. TWO 2X STUDS ARE TO BE NAILED TOGETHER WITH TWO ROWS 10d NAILS AT 6" O.C. (4" O.C. @ SW2 AND 2W2). AT DOUBLE SIDED SHEARWALLS VERTICAL PANEL EDGES TO BE STAGGERED ON OPPOSITE SIDES OF THE WALL EXCEPT END OF SHEARWALL.
- LTP4 INSTALLED OVER PLYWOOD SHALL USE 8d COMMON NAILS (.1310 X 2.5"). LTP4 INSTALLED DIRECTLY AGAINST FRAMING MAY USE 8d SHORT (.131X 1.5") RBC INSTALLED DIRECTLY AGAINST FRAMING USE 10d SHORT (.148X 1.5").
- WINDOW STRAP INDICATES THAT A WINDOW IS INCORPORATED WITHIN THE SHEAR WALL. REFER TO FORCE-TRANSFER AROUND OPENING DETAIL FOR FRAMING REQUIREMENTS.
- STHD HOLDOWNS ARE DIMENSIONED TO CENTER OF STRAP. HDU/HD HOLDOWNS ARE DIMENSIONED TO CENTER OF ANCHOR BOLT.
- SILL ANCHOR BOLTS (J-BOLTS) SHALL BE ASTM F1554 (36ksi) HDG, ASTM A307 (36ksi) HDG OR SIM. ANCHOR BOLTS TO BE 5/8" X 7" MIN EMBEDMENT. SPACING PER SHEARWALL SCHEDULE (72" O.C. MAX).
- ALL HANGERS TO BE MANUFACTURED BY SIMPSON STRONG-TIE. INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS. ALTERNATIVE SOLUTIONS SHALL BE SUBMITTED TO EOR FOR APPROVAL PRIOR TO INSTALLATION. REFER TO TYPICAL HANGER SCHEDULE FOR HANGER SIZE UNO ON PLAN OR DETAILS.
- FIRE-PROOFING AND MOISTURE-PROOFING REQUIREMENTS BY OTHERS.

LONGITUDE
ONE TWENTY°
ENGINEERING & DESIGN



REVISIONS

△ DESCRIPTION DATE BY

PROJECT NAME
216 SHELF ROCK ROAD
GEORGETOWN, TX

PROJECT NUMBER
S22202

CHECKED BY - AP

SHEET DATE - 08/31/2022

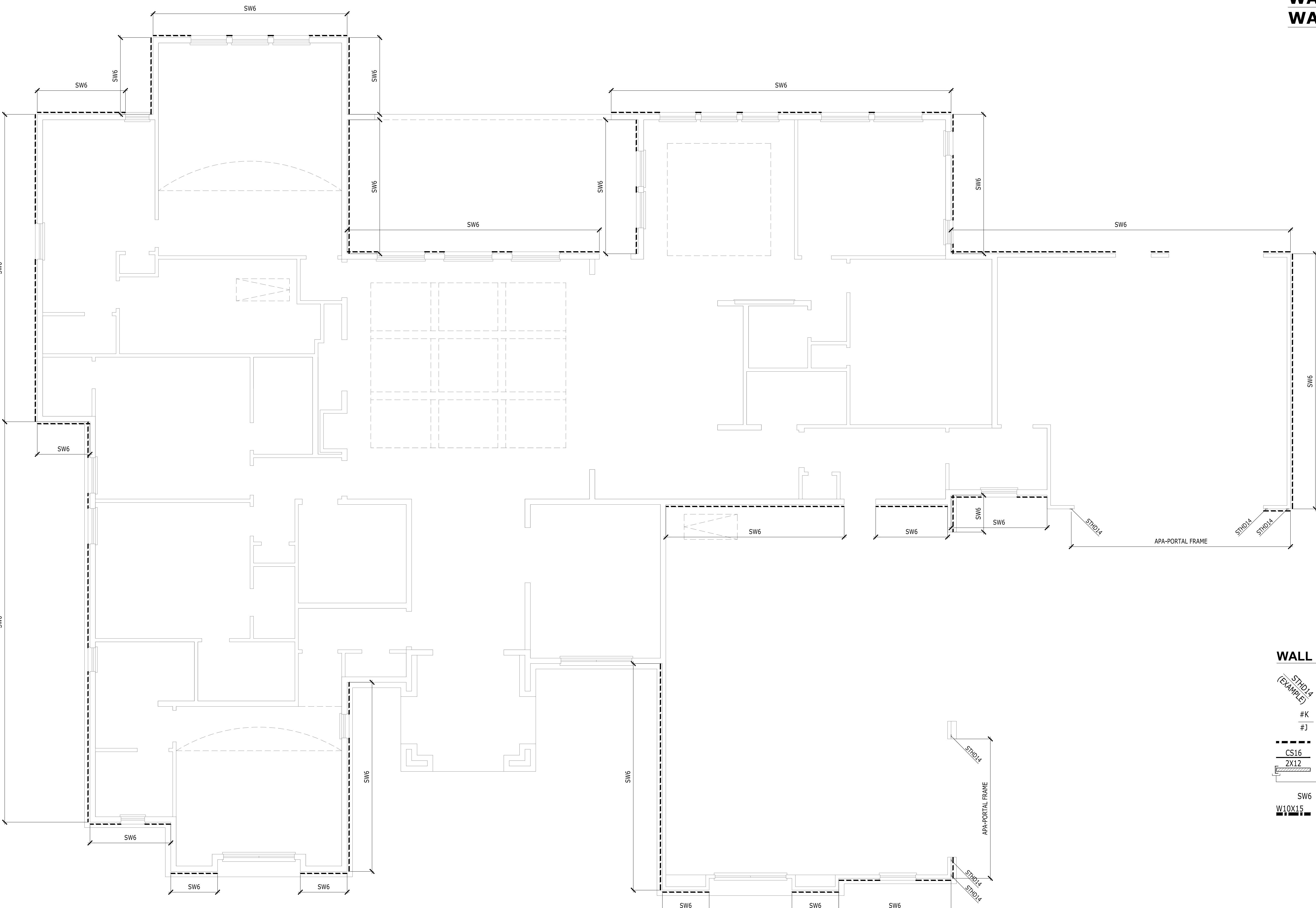
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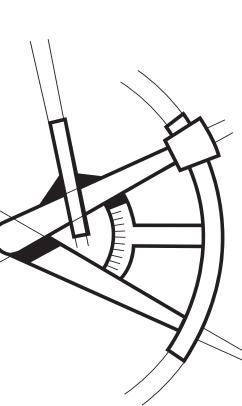
24X36 SHEET: 1/4" = 1'-0"

FIRST FLOOR WALL BRACING PLAN
S-5

WALL FRAMING AND SHEATHING LEGEND

- | | |
|--------------|--|
| | - HOLDOWN BY SIMPSON (STHD/MST/HDU/TYP) |
| #K | - INDICATES THE NUMBER OF KING AND JACK STUDS |
| #J | - INDICATES SHEARWALL LOCATION (SW# - SHEAR WALL MARK) |
| | - SIMPSON STRAP (EXAMPLE) |
| CS16
2x12 | - WOOD HEADER |
| | - HANGER AS REQ'D |
| W6 | - SHEAR WALL CALLOUT. REFER TO SHEARWALL SCHEDULE |
| W10X15 | - STEEL BEAM (EXAMPLE) |





REVISIONS

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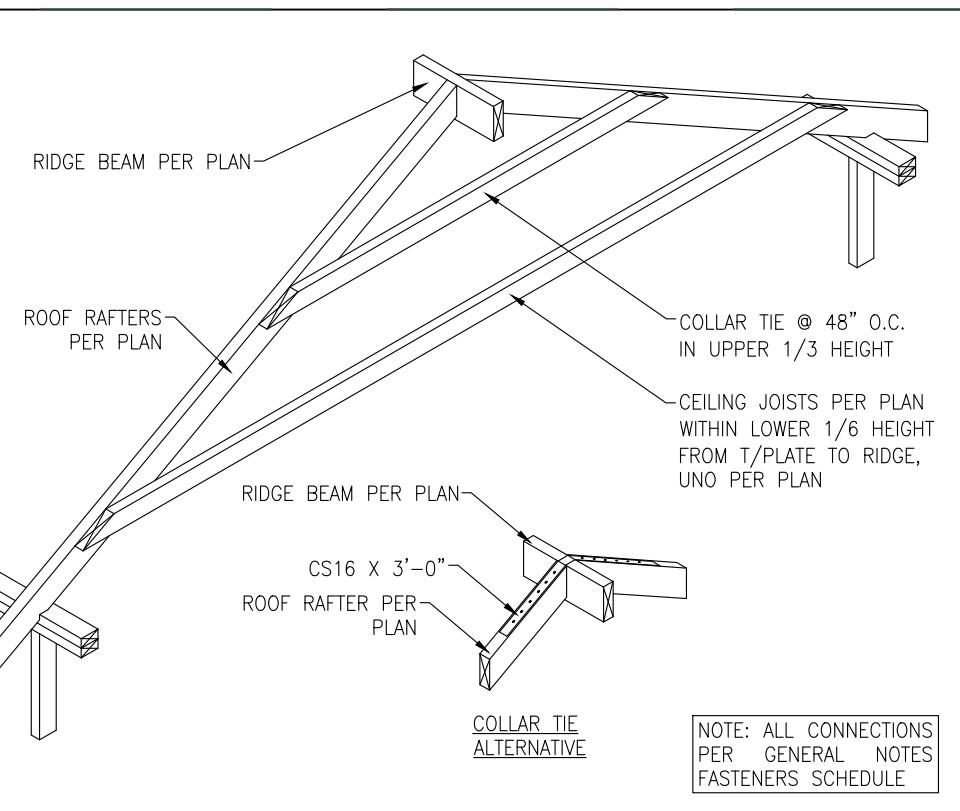
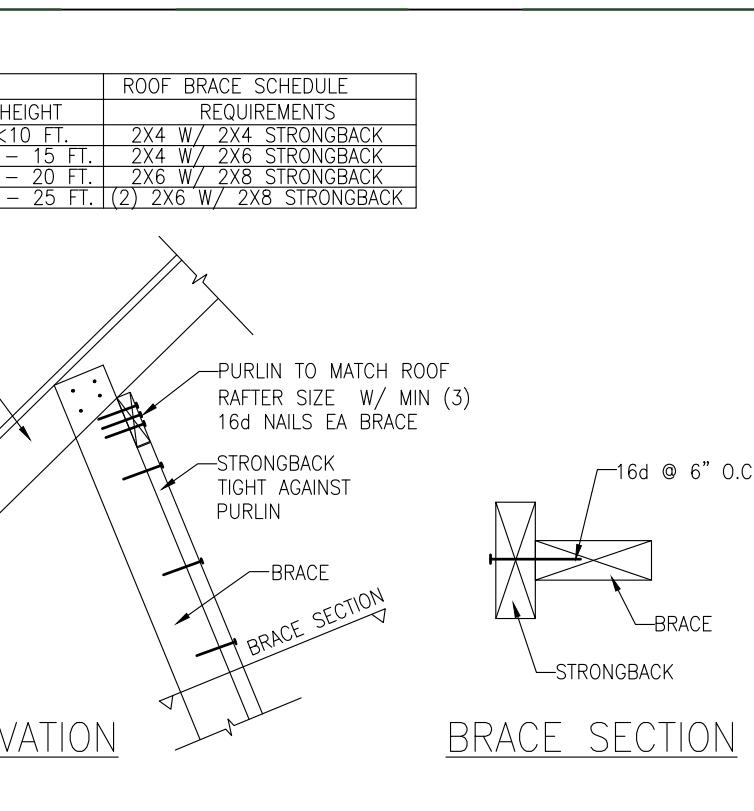
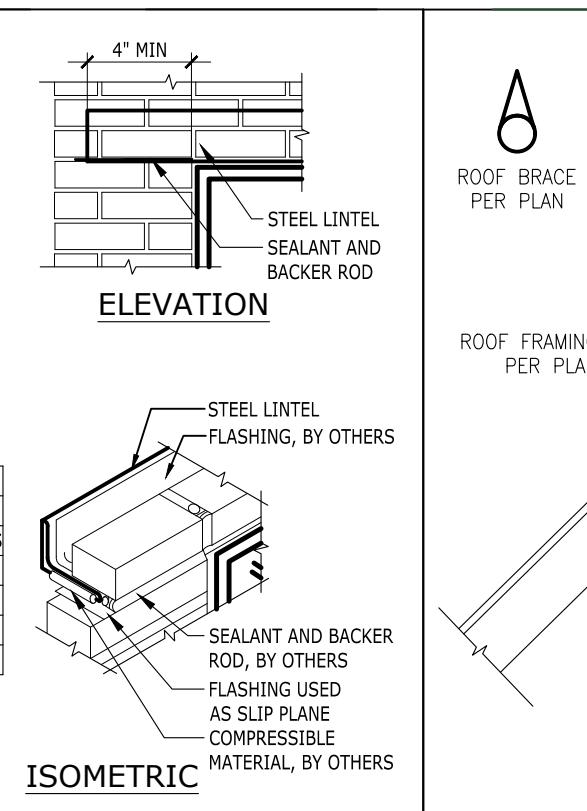
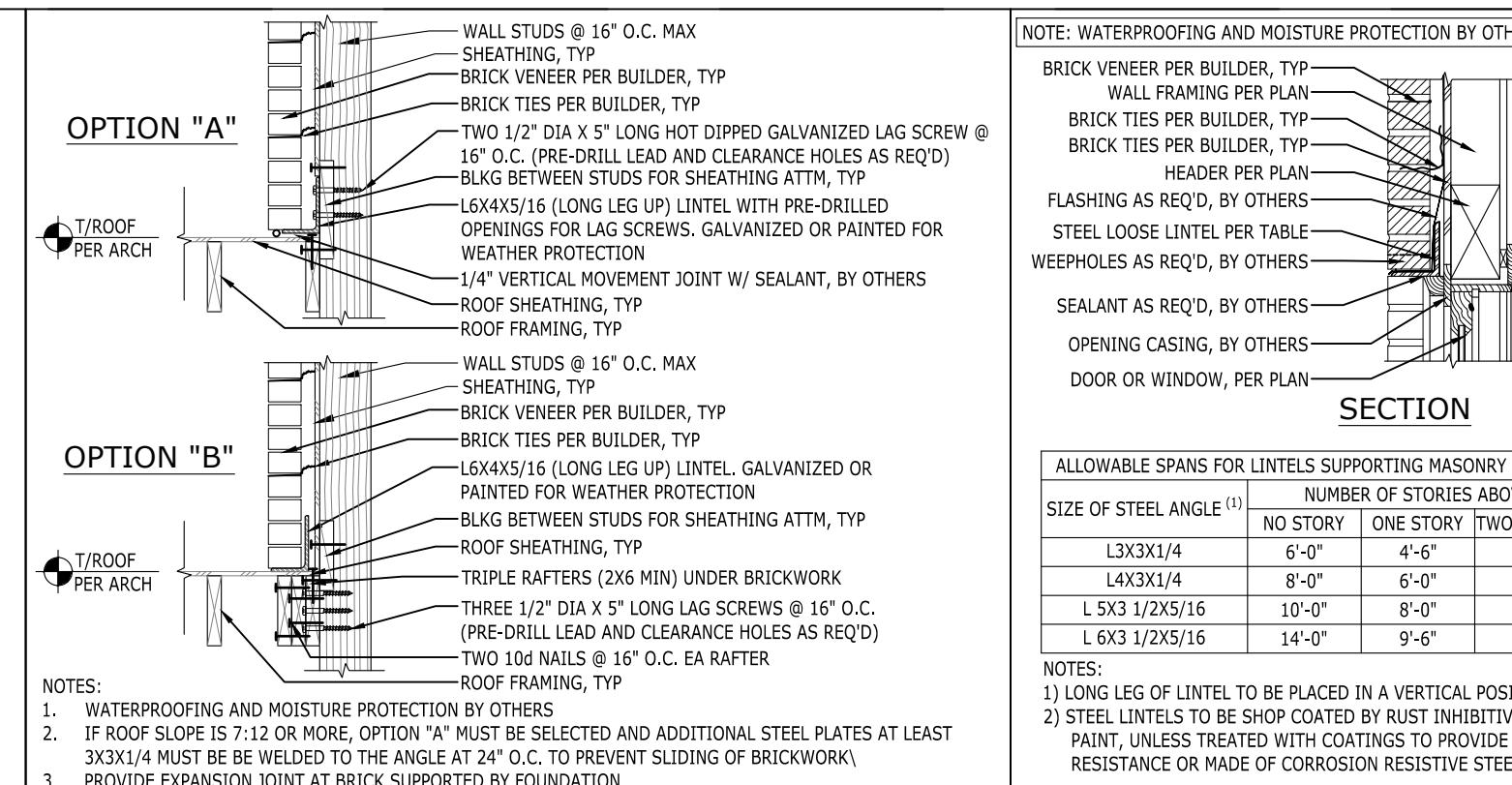
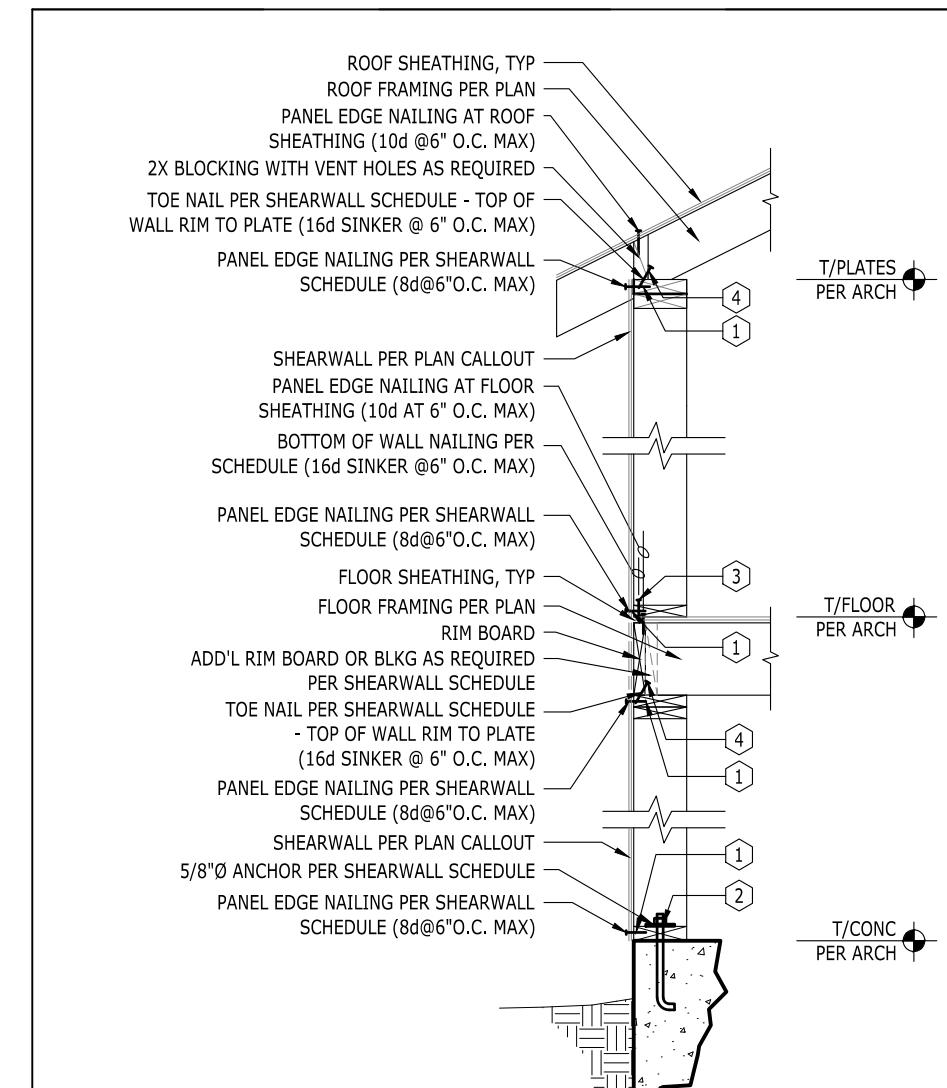
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24X36 SHEET: 1/4"=1'-0"

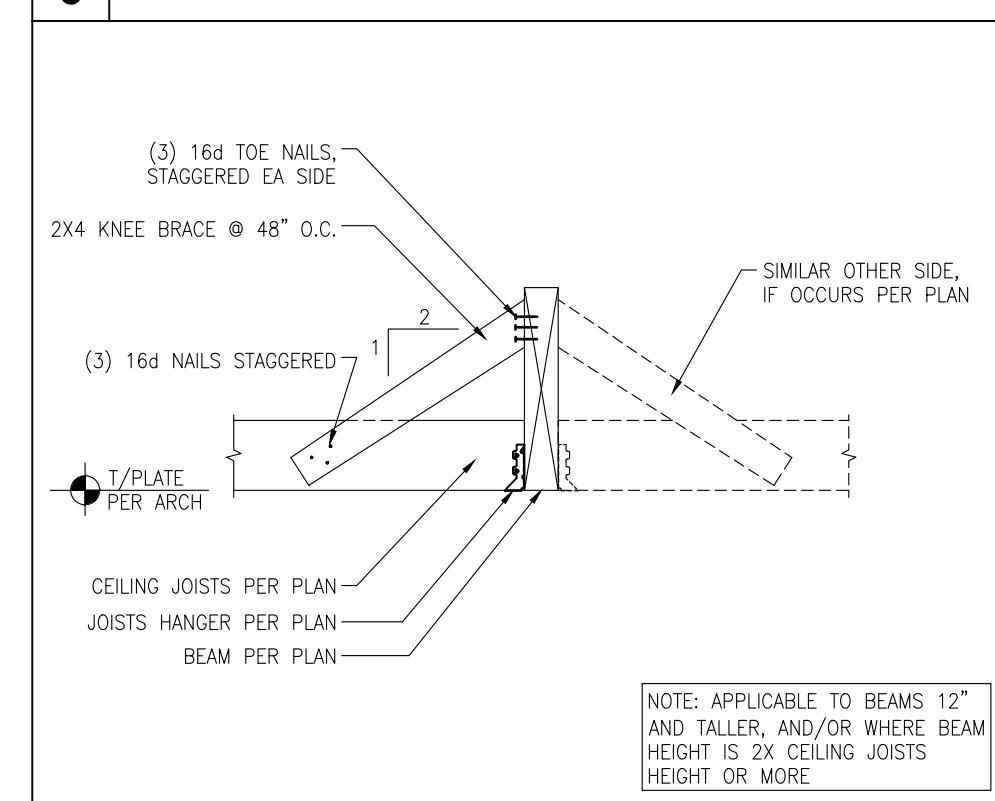
STRUCTURAL DETAILS
SD-1

DESCRIPTION

SHEET



6 SHEAR TRANSFER ELEVATION AND SCHEDULE

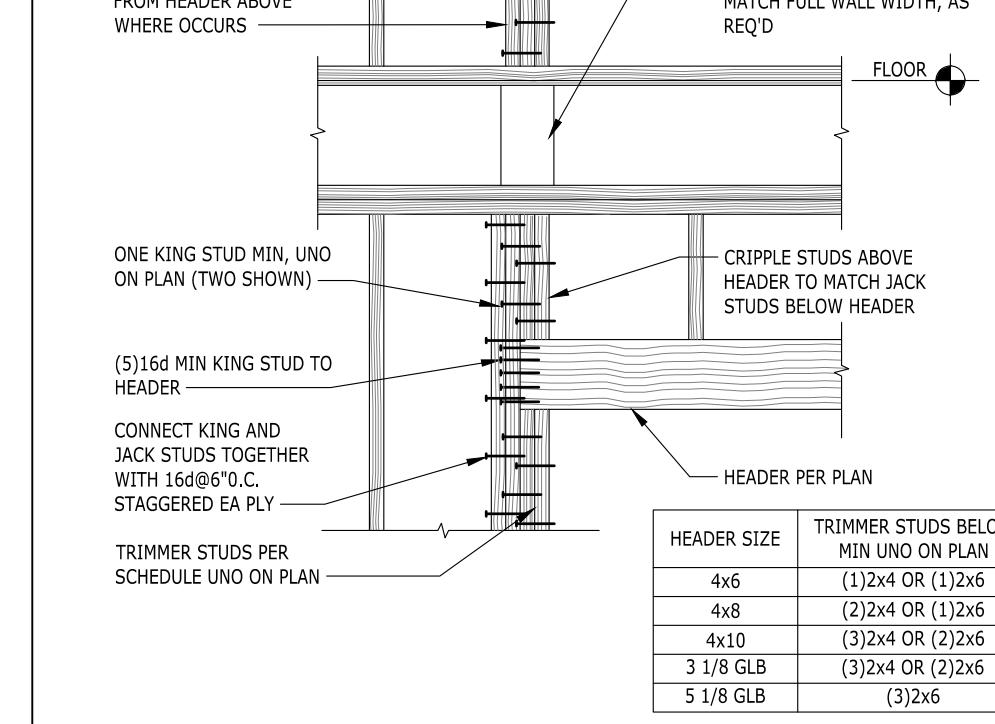


7 MULTI-PLY BEAM CONNECTION

SIZE	SPACING (IN O.C.)			
	12	16	19.2	24
CEILING ATTACHED TO RAFTERS DL=20 PSF, LU=20 PSF, L/A=180	13'-6"	13'-6"	12'-3"	11'-0"
2X6	15'-7"	17'-1"	15'-7"	13'-11"
2X8	19'-8"	21'-0"	19'-8"	16'-6"
2X10	23'-5"	23'-0"	21'-5"	19'-6"
2X12	26'-0"	23'-0"	21'-5"	19'-6"
CEILING NOT ATTACHED TO RAFTERS DL=20 PSF, LU=20 PSF, L/A=180	13'-6"	11'-8"	10'-8"	9'-6"
2X6	15'-7"	17'-1"	16'-0"	14'-4"
2X8	19'-8"	21'-0"	19'-8"	17'-7"
2X10	23'-5"	20'-8"	18'-10"	16'-10"
2X12	26'-0"	23'-0"	20'-8"	18'-10"
UNINHABITABLE ATTIC WITH LIMITED STORAGE DL=10 PSF, LU=20 PSF, L/A=240	13'-11"	12'-0"	11'-0"	9'-10"
2X6	15'-7"	15'-3"	13'-11"	12'-6"
2X8	19'-8"	21'-0"	19'-8"	17'-7"
2X10	23'-5"	25'-7"	23'-5"	20'-11"
2X12	26'-0"	26'-0"	26'-0"	24'-8"

NOTES: SPANS ARE SHOWN FOR SOUTHERN PINE #2 LUMBER

11 KNEE BRACE AT CEILING BEAM

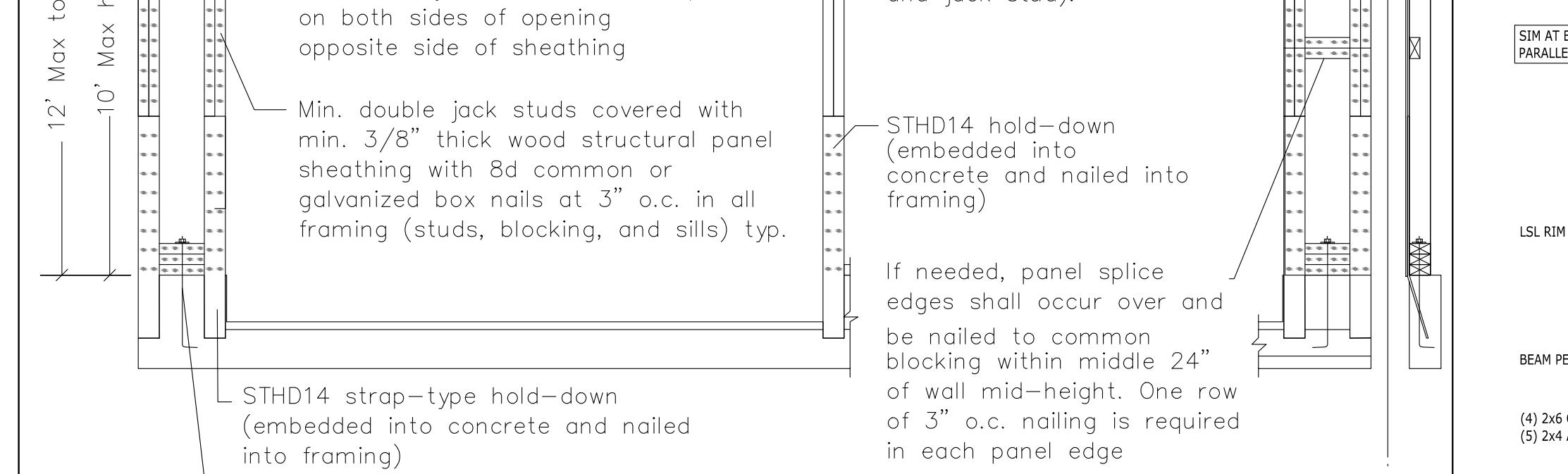


12 TYP SPAN TABLE

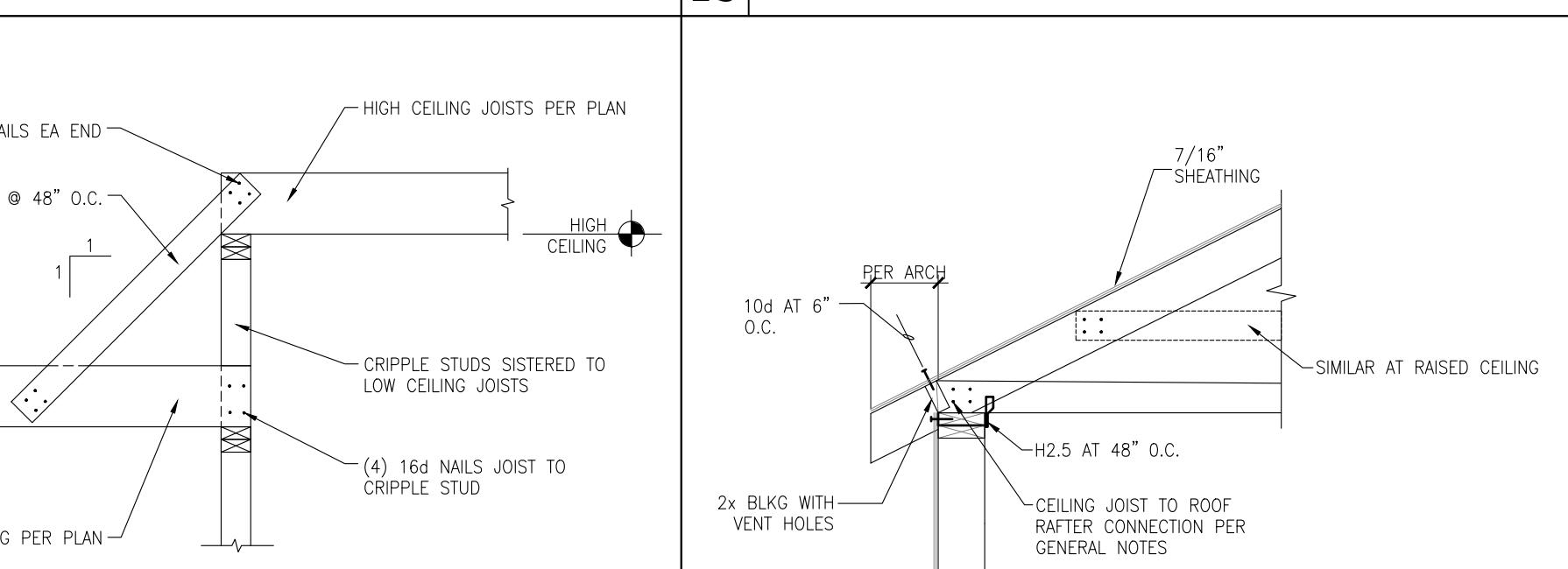
HEADER SIZE	MIN UND ON PLAN			
	(1)2x4 OR (1)2x6	(2)2x4 OR (1)2x6	(3)2x4 OR (2)2x6	(3)2x6
4x6				
4x8				
4x10				
3 1/8 GLB				
5 1/8 GLB				

NOTES: APPLICABLE TO BEAMS 12' AND TALLER, AND/OR WHERE BEAM HEIGHT IS 2X CEILING JOISTS HEIGHT OR MORE

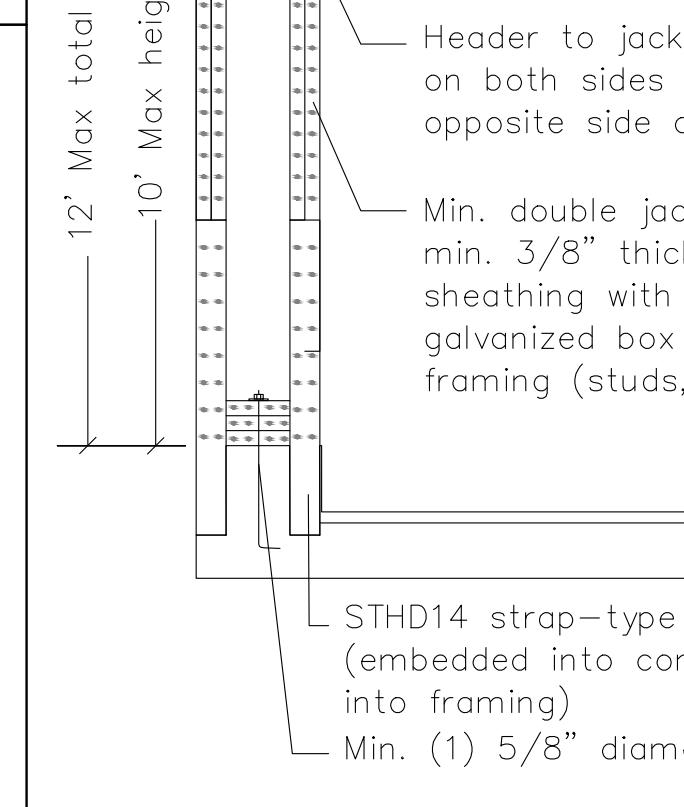
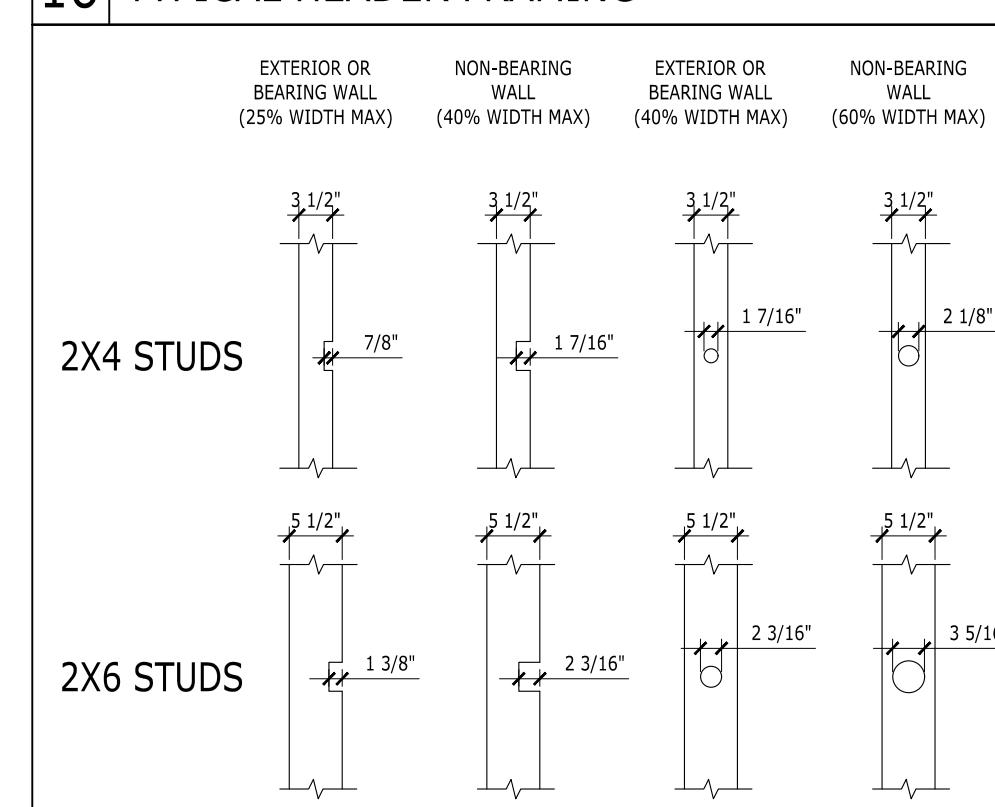
13 FASTENER SCHEDULE (BASED ON R602.3(1))



14 GABLE END ROOF FRAMING



16 TYPICAL HEADER FRAMING

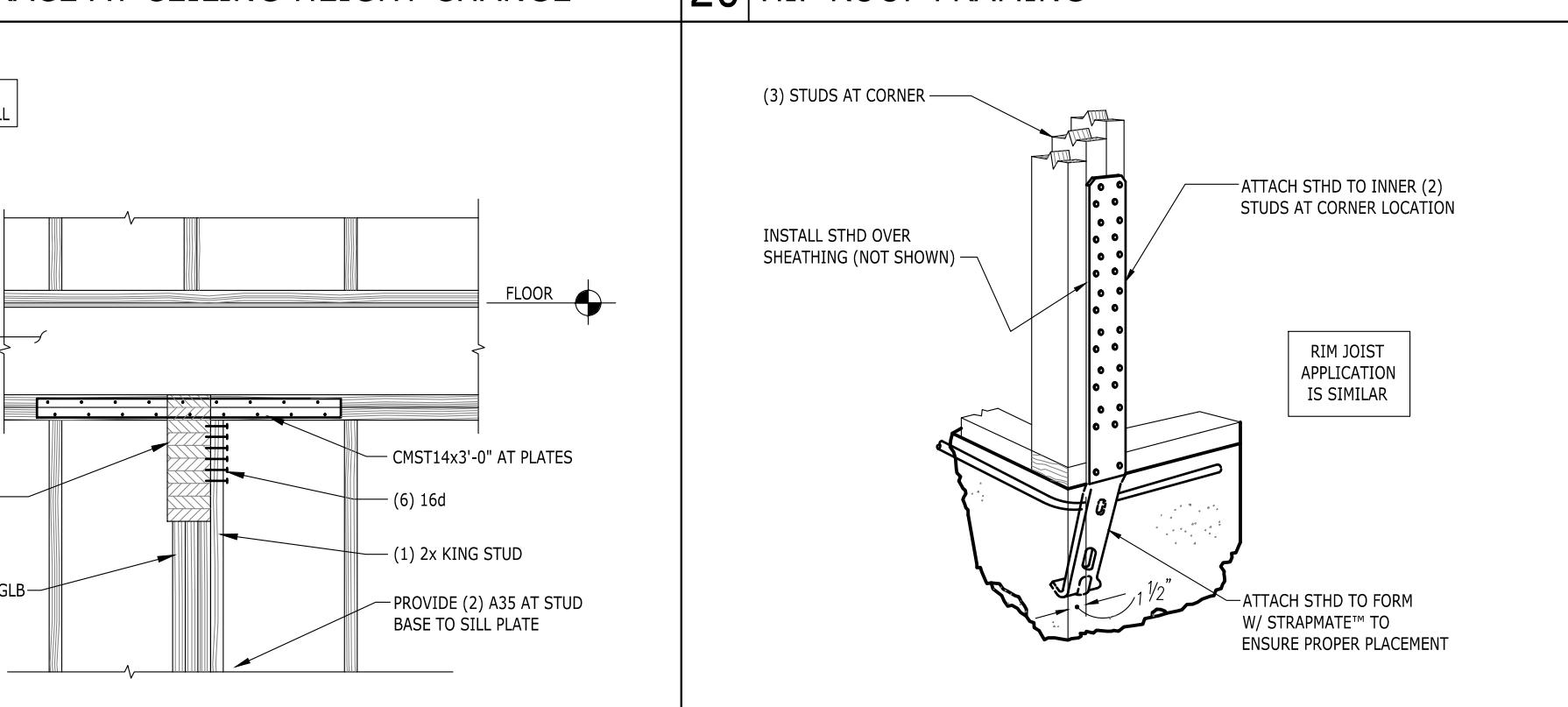


22 APA PORTAL FRAME

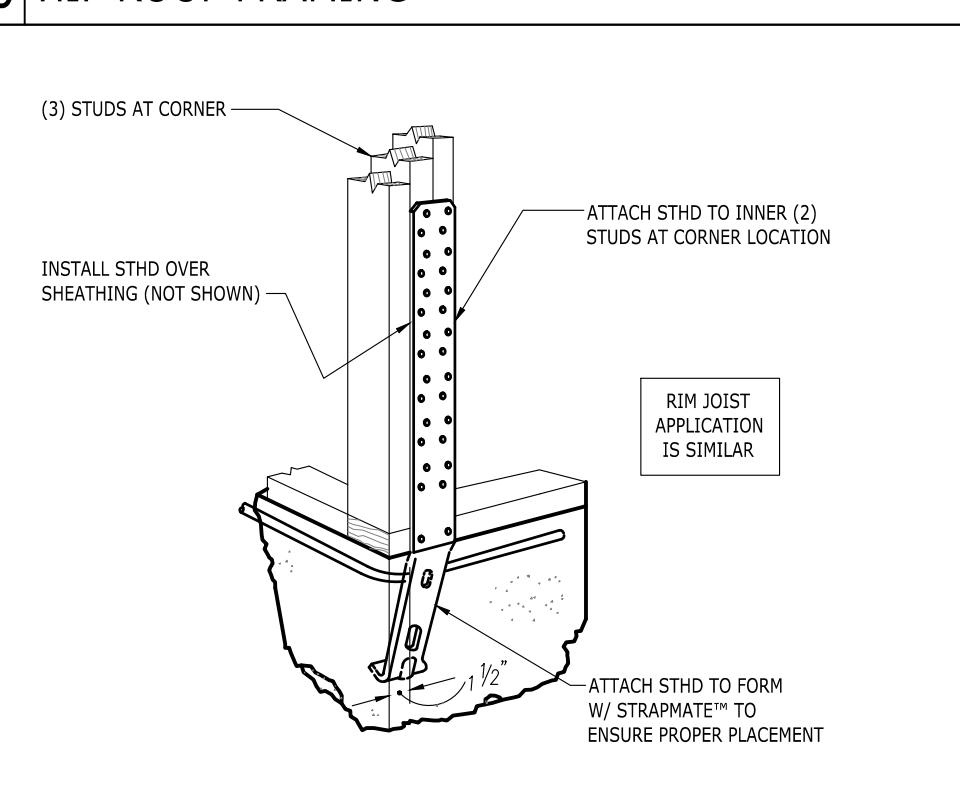
24 BEAM AT DISCONTINUOUS TOP PLATES

25 STHD HOLDOWN INSTALLATION

19 KNEE BRACE AT CEILING HEIGHT CHANGE



20 HIP ROOF FRAMING



21 ALLOWABLE STUD NOTCHING AND BORING

22 APA PORTAL FRAME

24 BEAM AT DISCONTINUOUS TOP PLATES

25 STHD HOLDOWN INSTALLATION