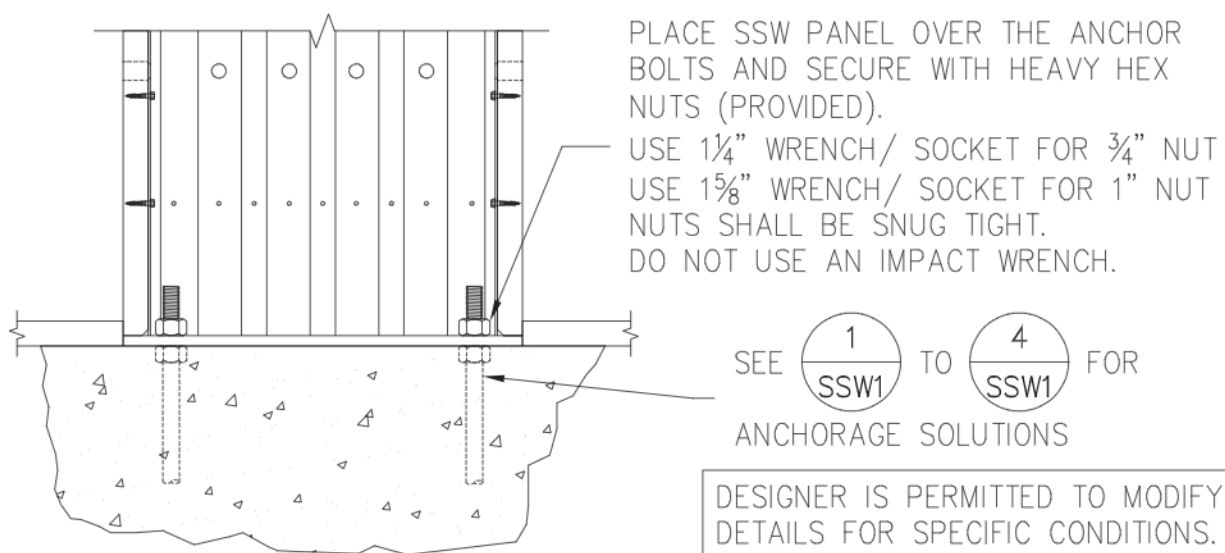


SINGLE-STORY STEEL STRONG-WALL® SHEARWALL ON CONCRETE

2/SSW2



STEEL STRONG-WALL® SHEARWALL ON CONCRETE

4/SSW2

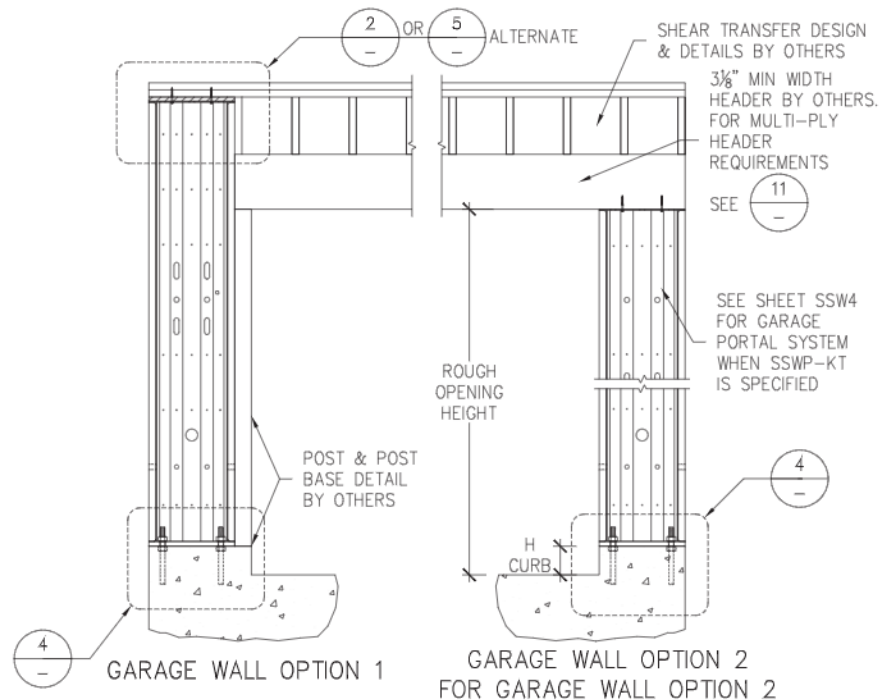
Steel Strong-Wall® Structural Details

GARAGE HEADER
ROUGH OPENING HEIGHT

MODEL NO.	H CURB	ROUGH OPENING HEIGHT
SSW12X7 SSW15X7 SSW18X7 SSW21X7 SSW24X7	5½"	7'-1½"
SSW12X7 SSW15X7 SSW18X7 SSW21X7 SSW24X7	6"	7'-2"
SSW12X7 SSW15X7 SSW18X7 SSW21X7 SSW24X7	5½"	8'-2¾"
SSW12X7 SSW15X7 SSW18X7 SSW21X7 SSW24X7	6"	8'-3¾"

1. THE HEIGHT OF THE GARAGE CURB ABOVE THE GARAGE SLAB IS CRITICAL FOR THE ROUGH HEADER OPENING AT GARAGE RETURN WALLS.
2. SHIMS ARE NOT PROVIDED WITH STEEL STRONG-WALL.
3. FURRING ON UNDERSIDE OF GARAGE HEADER MAY BE NECESSARY FOR LESSER ROUGH OPENING HEIGHTS.

DESIGNER IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.



NOTE:

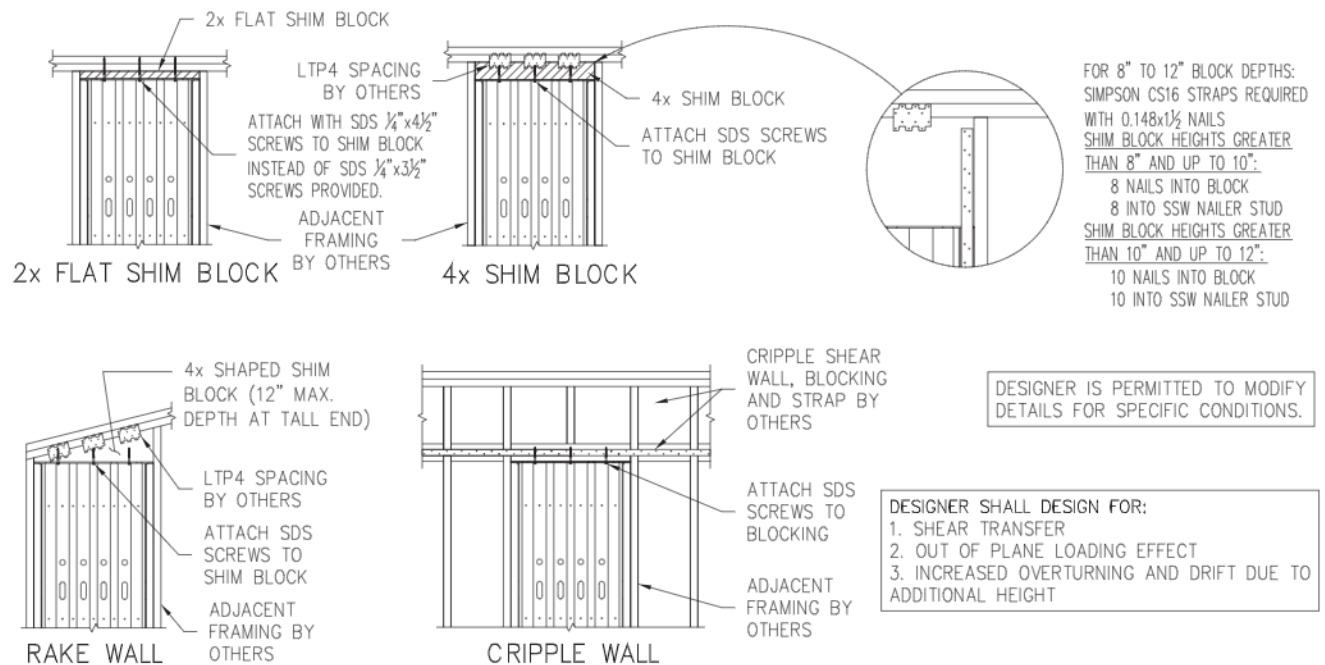
7-FT. HIGH STEEL STRONG-WALL MODELS ARE 80", 4" SHORTER THAN 7-FT. HIGH STRONG-WALL HIGH-STRENGTH WOOD SHEARWALLS

DESIGNER SHALL DESIGN FOR:

1. SHEAR TRANSFER
2. OUT OF PLANE LOADING EFFECT
3. INCREASED OVERTURNING AND DRIFT DUE TO ADDITIONAL HEIGHT

ALTERNATE GARAGE WALL OPTIONS

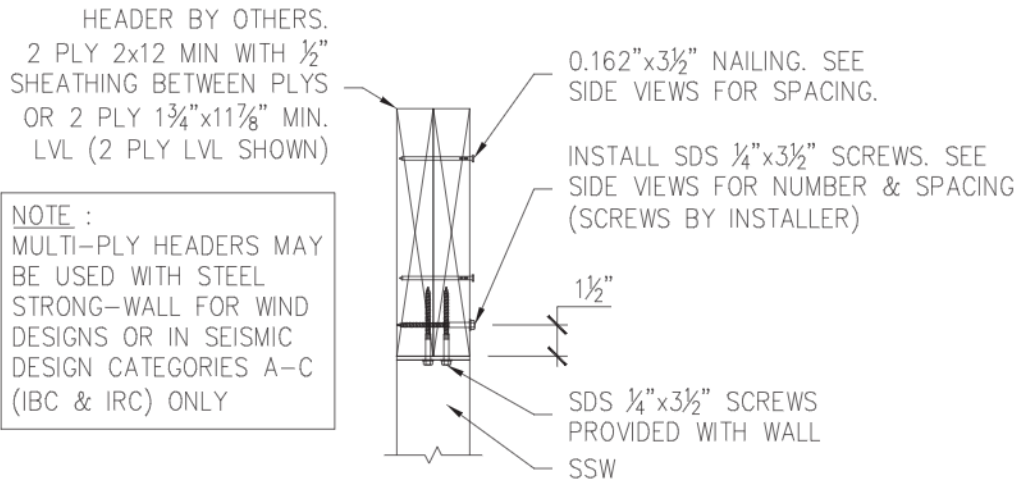
3/SSW2



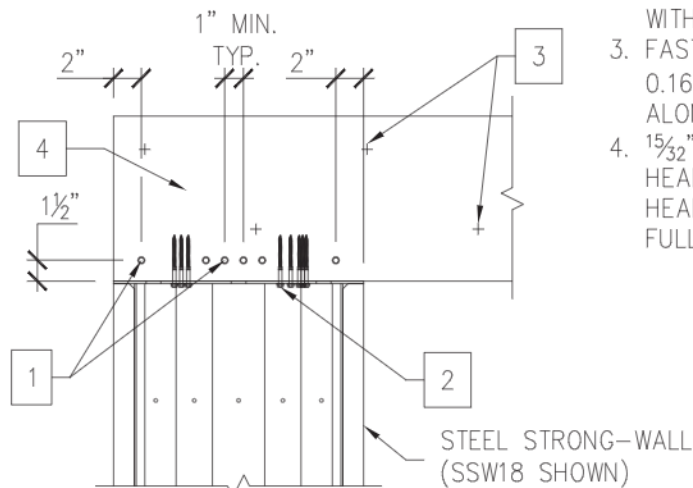
TOP OF WALL HEIGHT ADJUSTMENTS

5/SSW2

Steel Strong-Wall® Structural Details



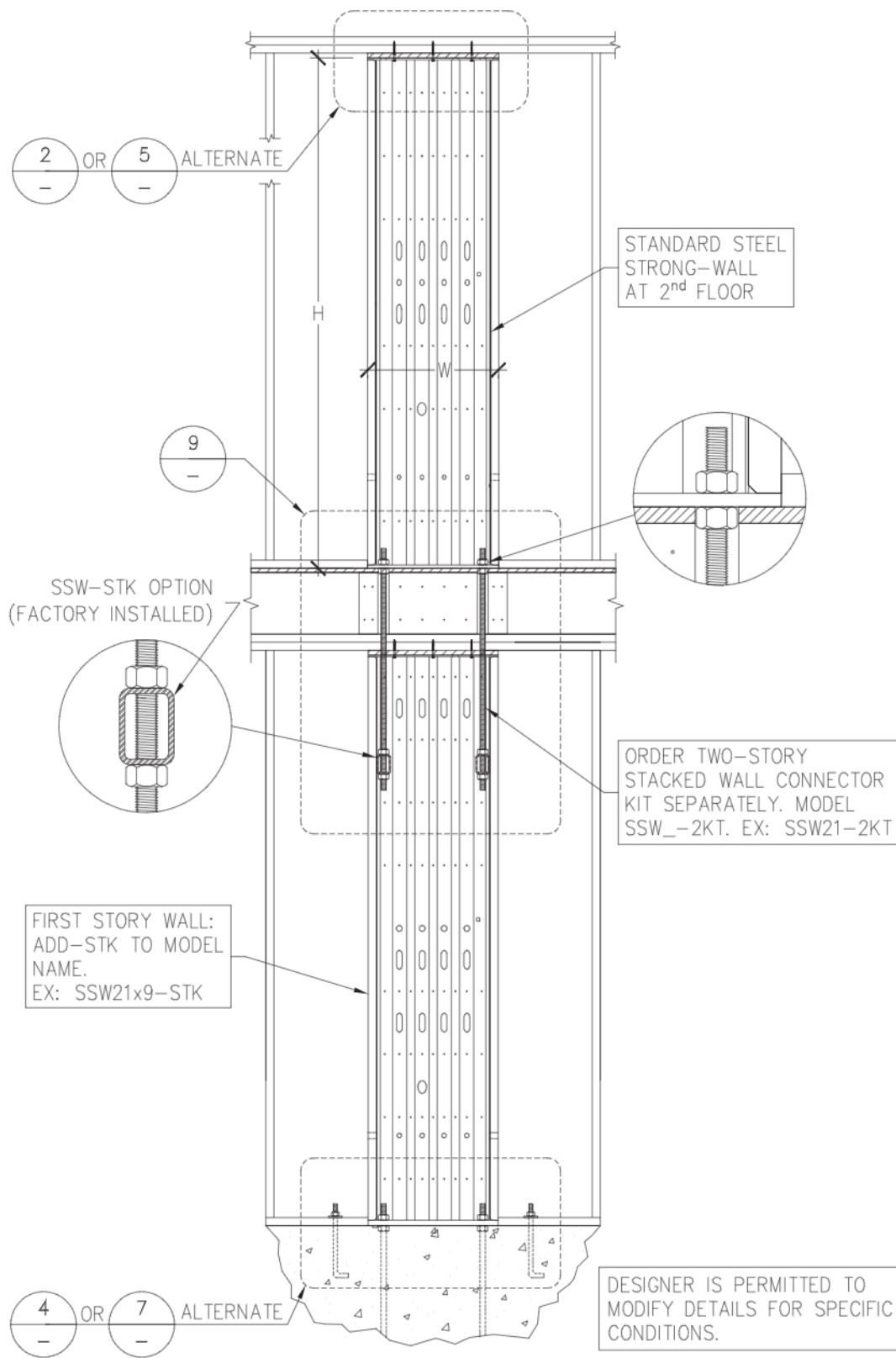
SSW MULTI-PLY HEADER CROSS SECTION



SIDE VIEW
SSW WITH MULTI-PLY HEADER

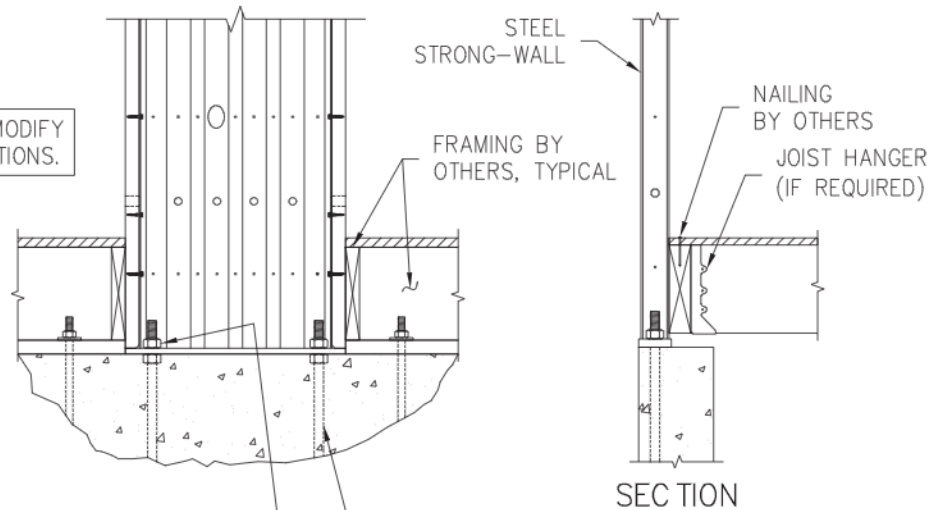
1. INSTALL SDS $\frac{1}{4}$ "x $3\frac{1}{2}$ " SCREWS HORIZONTALLY THROUGH LVL OR 2x LUMBER HEADER PLYS. 4 SCREWS TOTAL FOR SSW12, 6 SCREWS TOTAL FOR SSW15, SSW18, SSW21 AND SSW24.
2. SDS $\frac{1}{4}$ "x $3\frac{1}{2}$ " SCREWS PROVIDED WITH WALL
3. FASTEN PLYS TOGETHER WITH 0.162"x $3\frac{1}{2}$ " NAILS AT 16" O.C. ALONG EACH EDGE OF BEAM.
4. $\frac{15}{32}$ " SHEATHING BETWEEN 2x HEADER PLYS SHALL MATCH HEADER DEPTH AND EXTEND FULL WIDTH OF SSW, MINIMUM.

DESIGNER IS PERMITTED TO MODIFY
DETAILS FOR SPECIFIC CONDITIONS.



Steel Strong-Wall® Structural Details

DESIGNER IS PERMITTED TO MODIFY
DETAILS FOR SPECIFIC CONDITIONS.

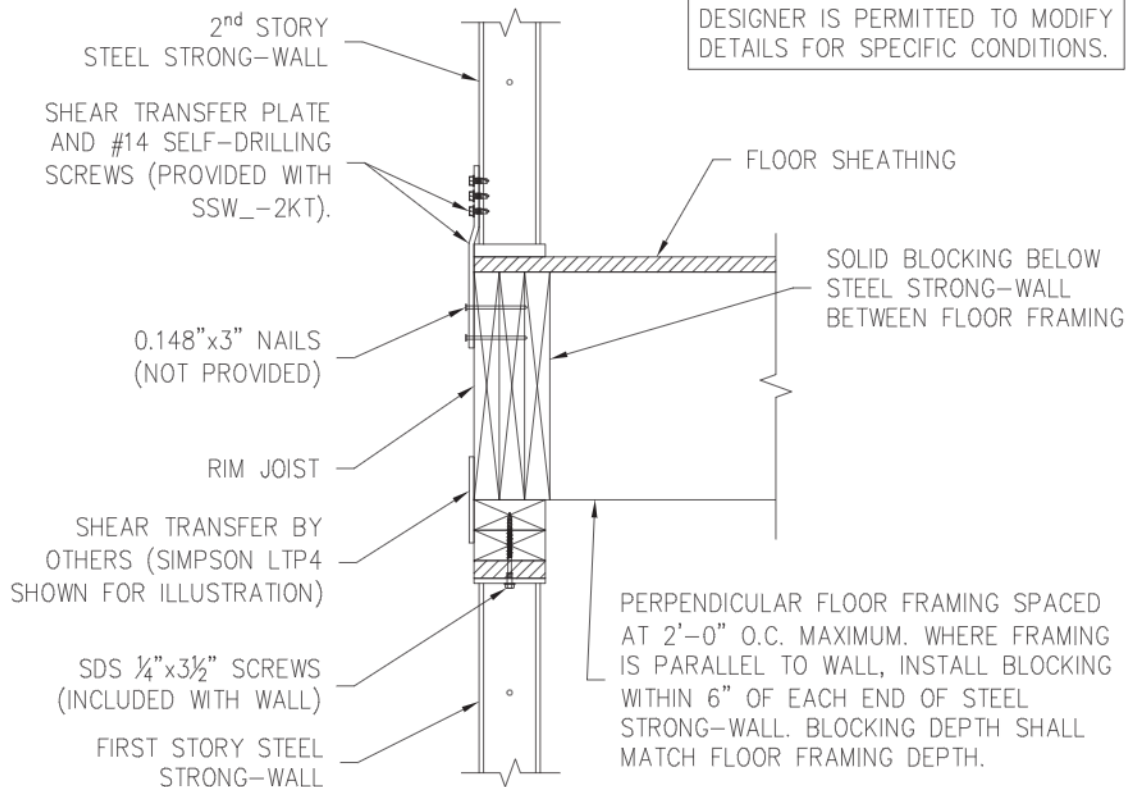


PLACE SSW PANEL OVER THE ANCHOR BOLTS AND
SECURE WITH HEAVY HEX NUTS (PROVIDED).
USE $\frac{1}{4}$ " WRENCH/ SOCKET FOR $\frac{3}{4}$ " NUT
USE $\frac{1}{8}$ " WRENCH/ SOCKET FOR 1" NUT
NUTS SHALL BE SNUG TIGHT.
DO NOT USE AN IMPACT WRENCH.

SEE $\frac{1}{SSW1}$ TO $\frac{4}{SSW1}$ FOR
ANCHORAGE SOLUTIONS

ALTERNATE 1ST FLOOR WOOD FRAMING

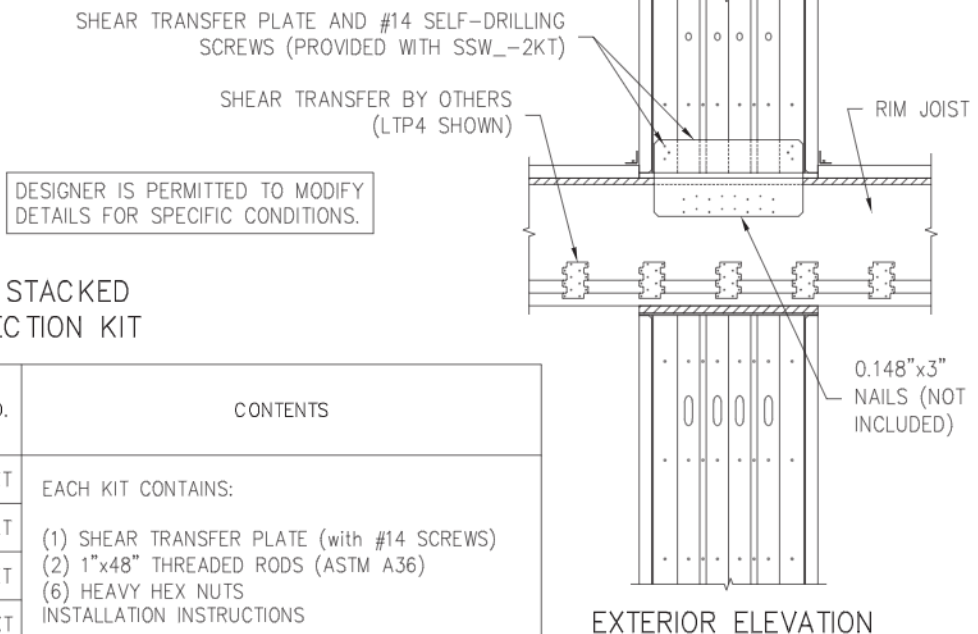
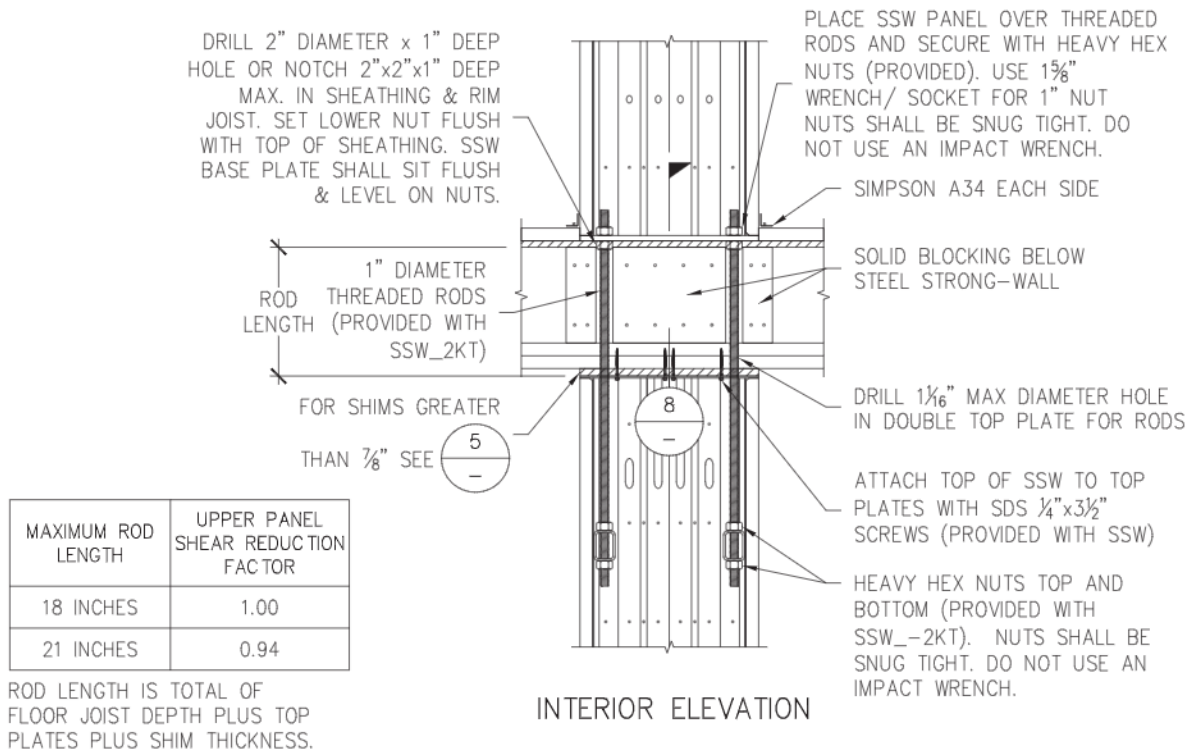
7/SSW2



DESIGNER IS PERMITTED TO MODIFY
DETAILS FOR SPECIFIC CONDITIONS.

TWO-STORY STACKED FLOOR SECTION

8/SSW2



TWO-STORY STACKED WALL CONNECTION KIT

WALL WIDTH (in)	MODEL NO.	CONTENTS
15	SSW15-2KT	EACH KIT CONTAINS: (1) SHEAR TRANSFER PLATE (with #14 SCREWS) (2) 1"x48" THREADED RODS (ASTM A36) (6) HEAVY HEX NUTS INSTALLATION INSTRUCTIONS
18	SSW18-2KT	
21	SSW21-2KT	
24	SSW24-2KT	

DRILL 2" DIAMETER x 1" DEEP HOLE OR NOTCH 2"x2"x1" DEEP MAX. IN SHEATHING & RIM JOIST. SET LOWER NUT FLUSH WITH TOP OF SHEATHING. SSW BASE PLATE SHALL SIT FLUSH & LEVEL ON NUTS.

PLACE SSW PANEL OVER RODS AND SECURE WITH HEAVY HEX THREADED NUTS (PROVIDED).
 USE 1 1/4" WRENCH/ SOCKET FOR 3/4" NUT
 USE 1 5/8" WRENCH/ SOCKET FOR 1" NUT
 NUTS SHALL BE SNUG TIGHT.
 DO NOT USE AN IMPACT WRENCH.

SIMPSON A34 EACH SIDE

SOLID BLOCKING BELOW STEEL STRONG-WALL

COUPLER NUT AND THREADED RODS (INCLUDED WITH SSW_-1KT)

SEE SHEET SSW1 FOR ANCHORAGE SOLUTIONS.

INTERIOR ELEVATION

WOOD FIRST-FLOOR WALL CONNECTION KIT

WALL WIDTH (IN)	MODEL NO.	CONTENTS
12	SSW12-1KT	EACH KIT CONTAINS: (1) SHEAR TRANSFER PLATE (with #14 SCREWS) (2) 3/4"x18" or 1"x18" THREADED RODS (ASTM A36) (2) COUPLER NUTS (2) HEAVY HEX NUTS INSTALLATION INSTRUCTIONS
15	SSW15-1KT	
18	SSW18-1KT	
21	SSW21-1KT	
24	SSW24-1KT	

ORDER FIRST FLOOR CONNECTOR KIT SEPARATELY. MODEL SSW_-1KT. EXAMPLE: SSW21-1KT

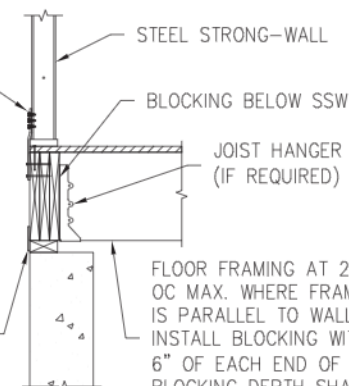
#14 SCREWS TO PANEL (PROVIDED WITH SSW_-1KT)

SHEAR TRANSFER PLATE (PROVIDED WITH SSW_-1KT)

RIM JOIST

0.148"x3" NAILS TO FRAMING (NOT PROVIDED)

EXTERIOR ELEVATION



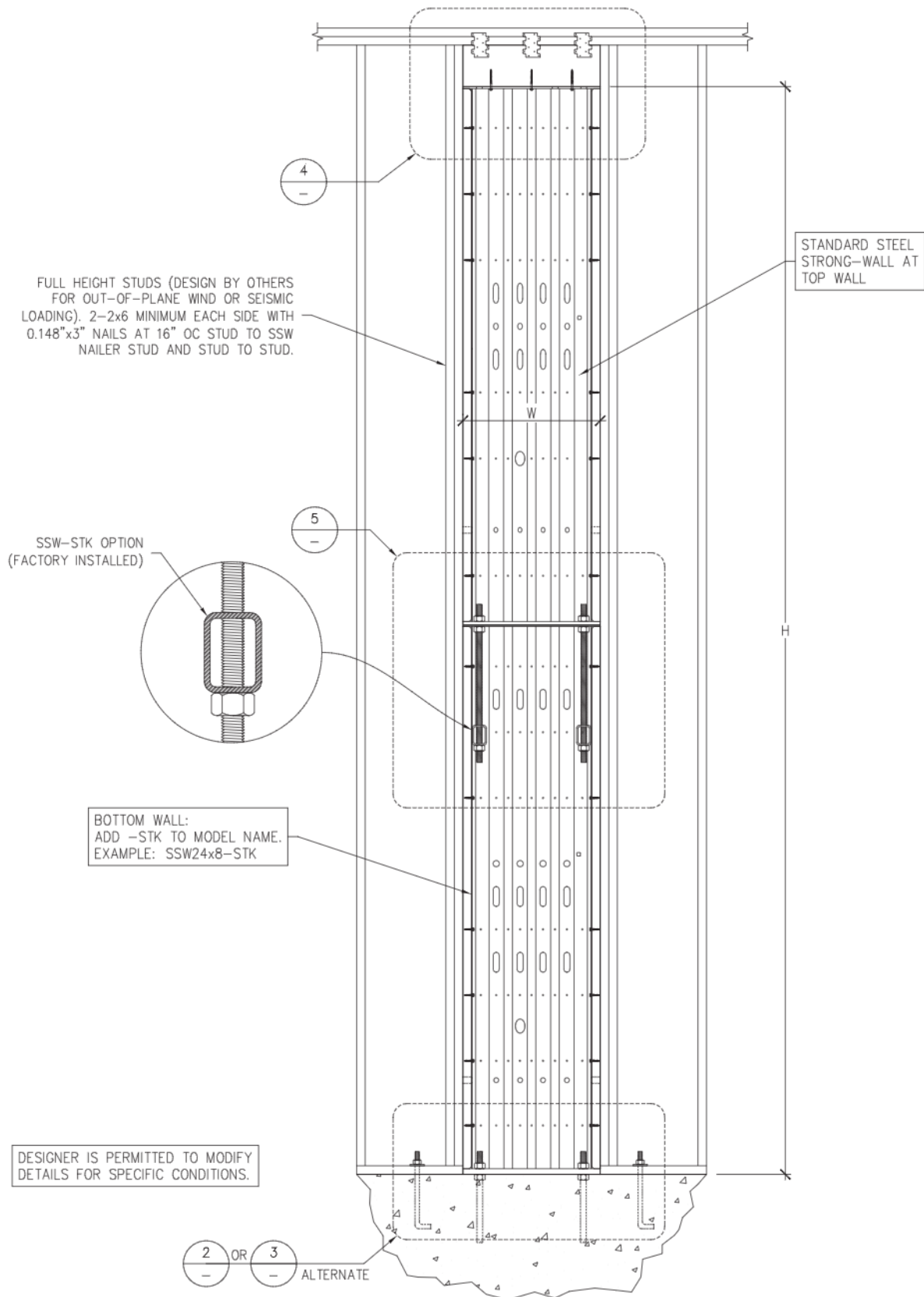
SECTION

FIRST FLOOR AT WOOD FRAMING NOTES :

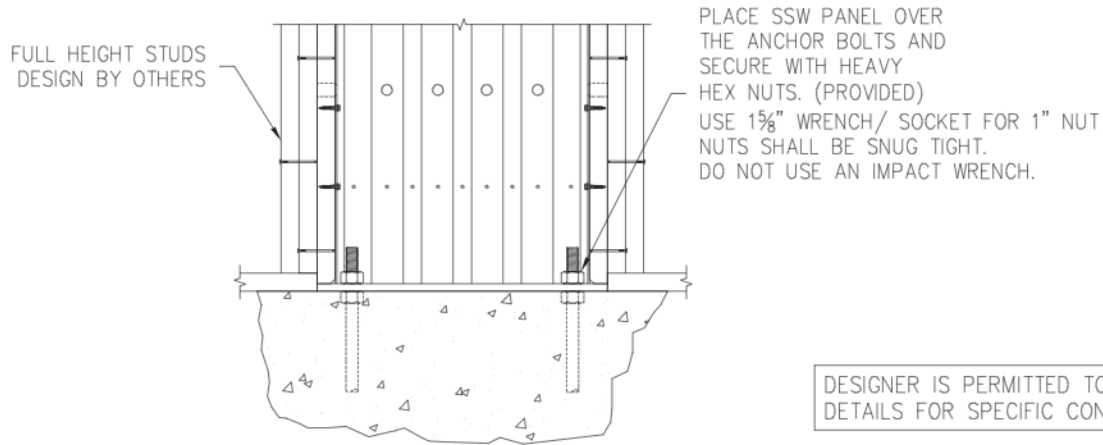
1. USE WOOD FIRST-FLOOR ALLOWABLE LOAD TABLES FROM THE STRONG-WALL CATALOG FOR THIS INSTALLATION.
2. USE ALTERNATE DETAIL $\frac{7}{-}$ TO ACHIEVE MAXIMUM ON-CONCRETE ALLOWABLE LOADS.
3. FOR TWO-STORY STACKED STEEL STRONG-WALLS WITH WOOD FIRST FLOOR, USE ALTERNATE DETAIL $\frac{7}{-}$
4. DESIGNER SHALL DESIGN FOR SHEAR TRANSFER FROM RIM JOIST TO SILL PLATE AND SILL PLATE TO FOUNDATION.

DESIGNER IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.

Steel Strong-Wall® Structural Details

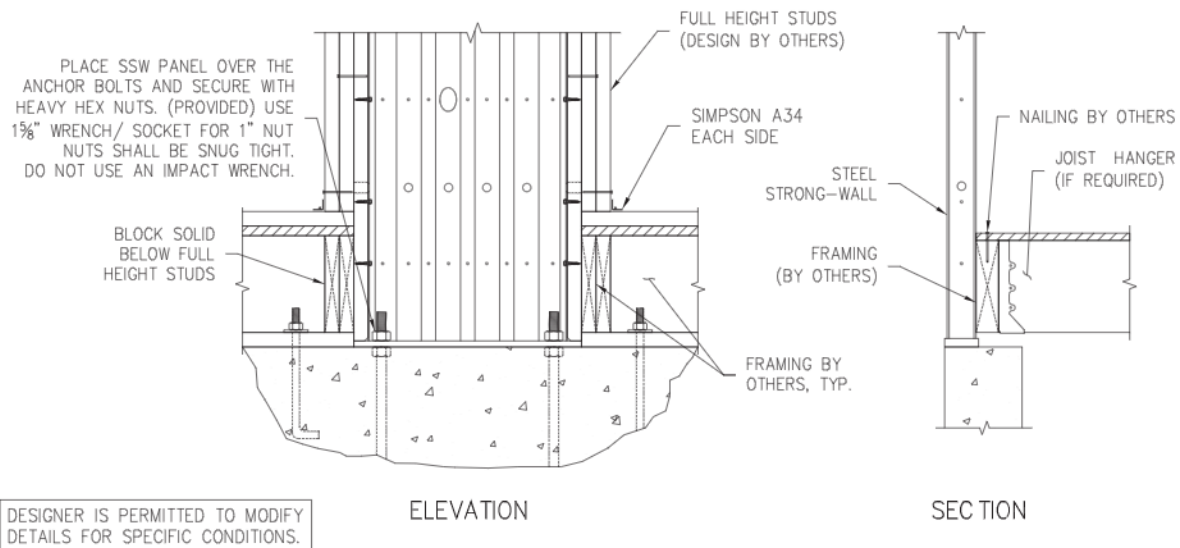


Steel Strong-Wall® Structural Details



BALLOON FRAMING BASE PLATE CONNECTION

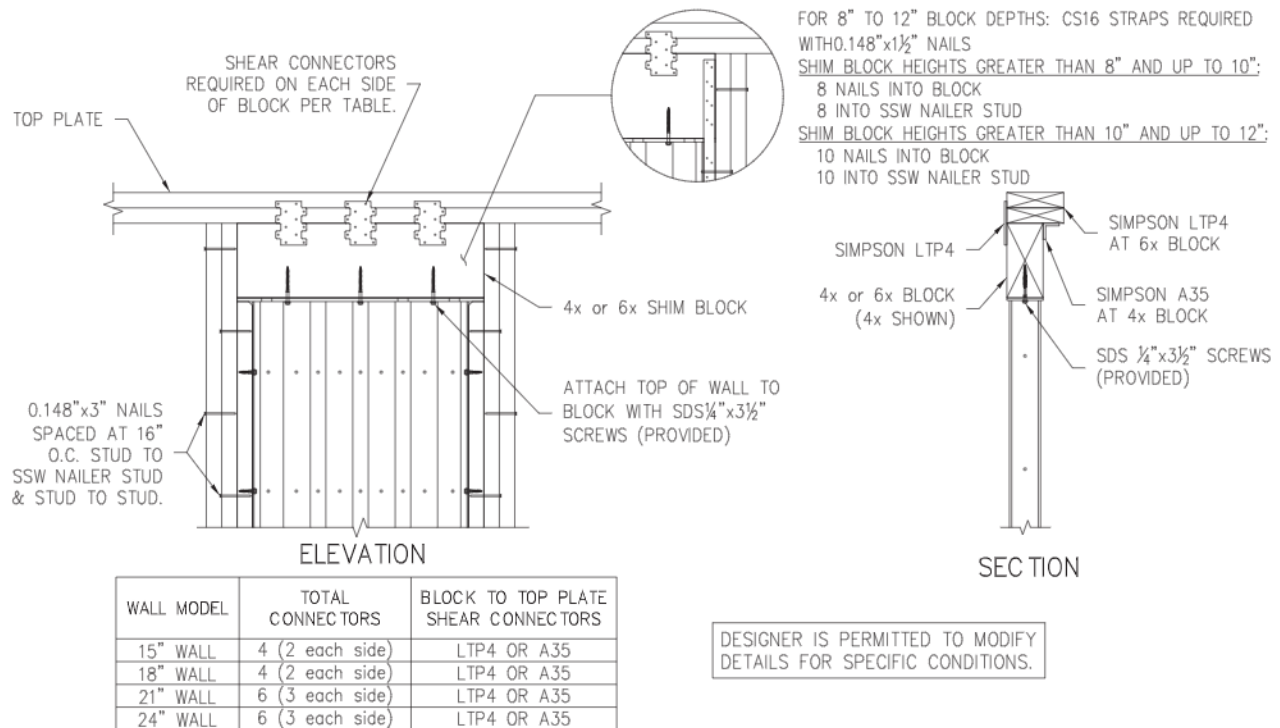
2/SSW3



BALLOON FRAMING AT WOOD FLOOR

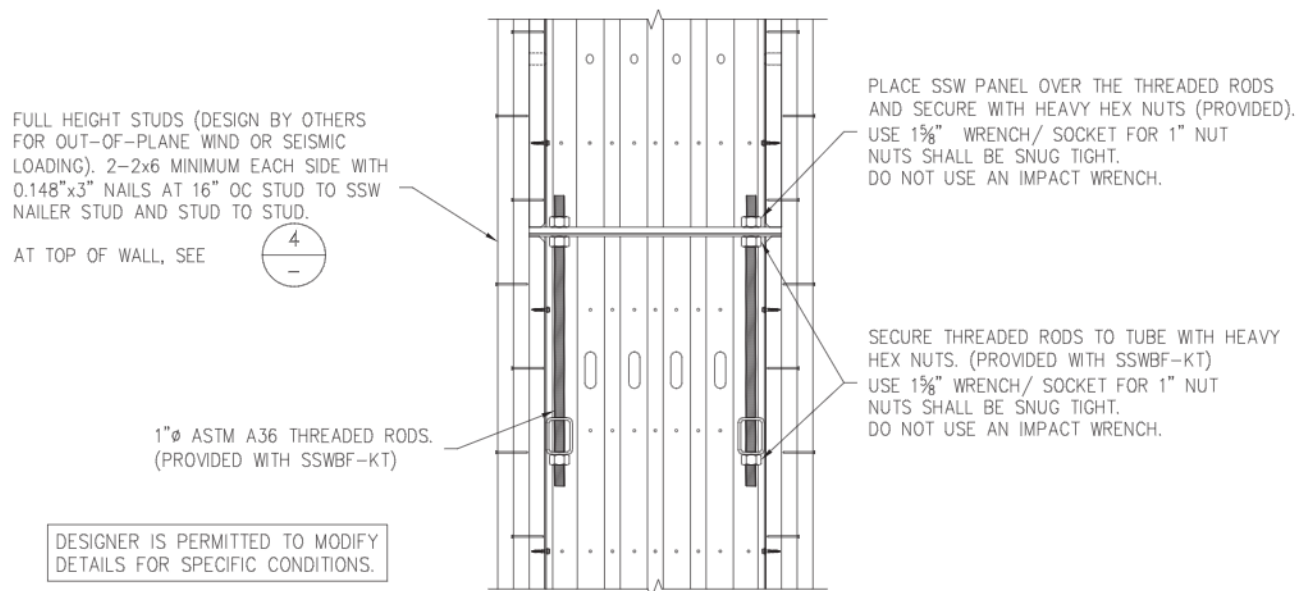
3/SSW3

Steel Strong-Wall® Structural Details



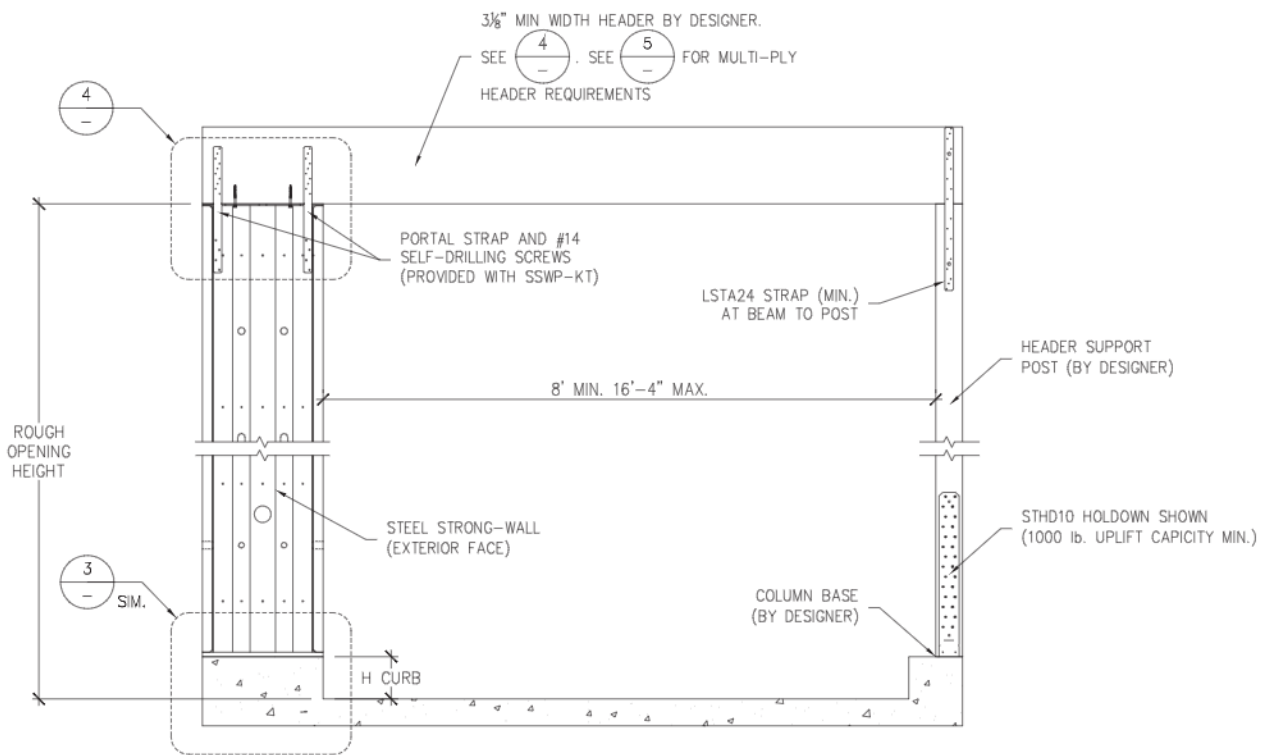
BALLOON FRAMING TOP OF WALL CONNECTION

4/SSW3



BALLOON FRAMING WALL TO WALL CONNECTION

5/SSW3



SINGLE PORTAL ASSEMBLY

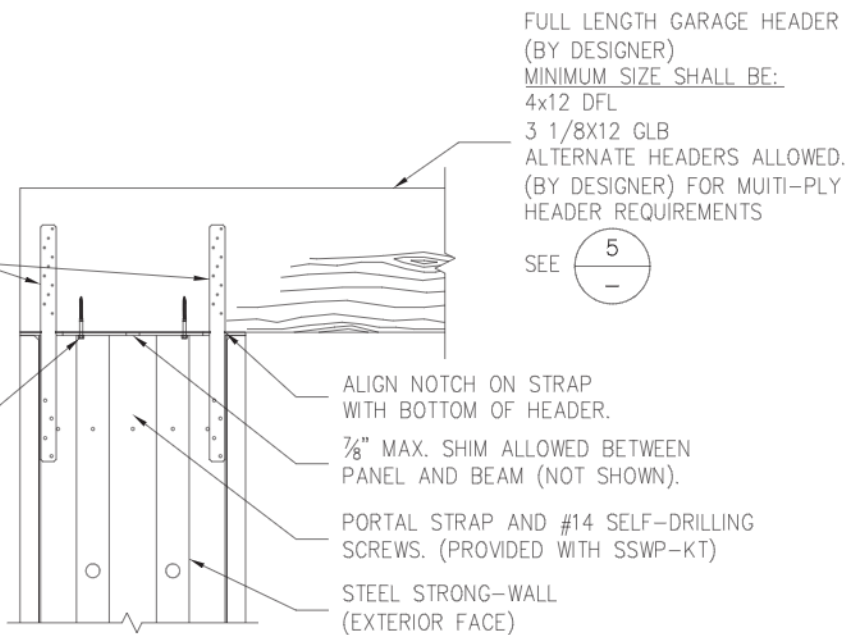
1/SSW4

NOTE :
 LOAD PATH DESIGN AND
 DETAILS ABOVE HEADER TO
 BE PROVIDED BY DESIGNER.

FIELD NAIL PORTAL STRAP TO HEADER
 WITH (10) 0.148"x2½" MIN. NAILS.
 FASTEN STRAP TO PANEL WITH (4)
 #14 SELF-DRILLING SCREWS.
 (SCREWS PROVIDED WITH SSWP-KT)

SDS ¼"x3½" SCREWS
 (PROVIDED)

NOTE :
 STRAPS MUST BE INSTALLED ON
 EXTERIOR FACE OF SSW PANEL.
 POSITION HEADER FLUSH WITH
 EXTERIOR FACE OF SSW PANEL.



PORTAL TOP CONNECTION

4/SSW4