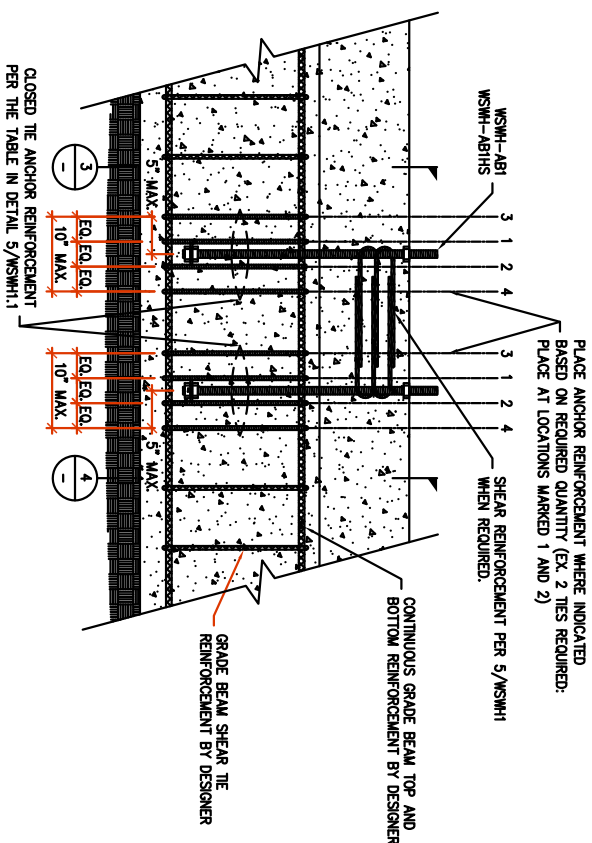
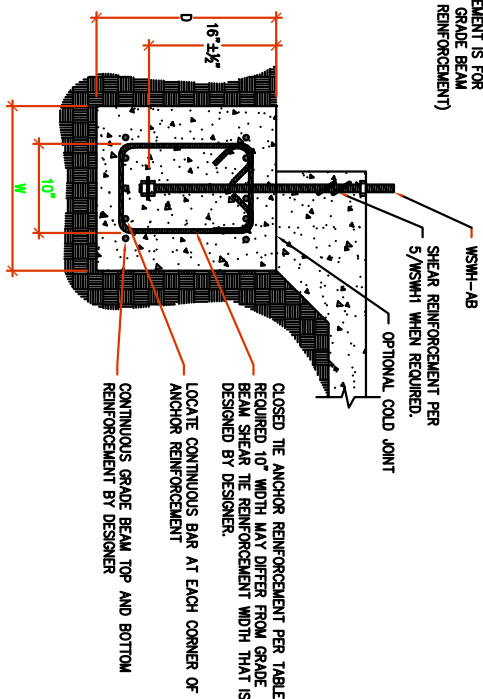




NOTES :
ANCHOR REINFORCEMENT IS FOR ANCHORAGE ONLY. GRADE BEAM DESIGN (SIZE AND REINFORCEMENT) BY DESIGNER.



ANCHOR REIN. NOTE :
MINIMUM DISTANCES FROM THE ANCHOR
BOLT PLATE WASHER TO TOP AND
BOTTOM OF CLOSED THE REINFORCEMENT
ARE 13" AND 5" RESPECTIVELY.

DIMENSIONING NOTES :
D: DEPTH BY DESIGNER (24" MIN.)
W: WIDTH BY DESIGNER (18" MIN.)

GRADE BEAM ELEVATION AT 18" AND 24" WALL MODELS

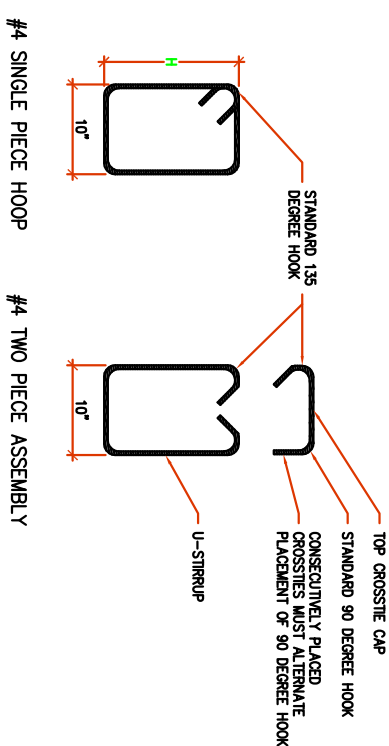
1

GRADE BEAM SECTION AT ANCHOR REINFORCEMENT

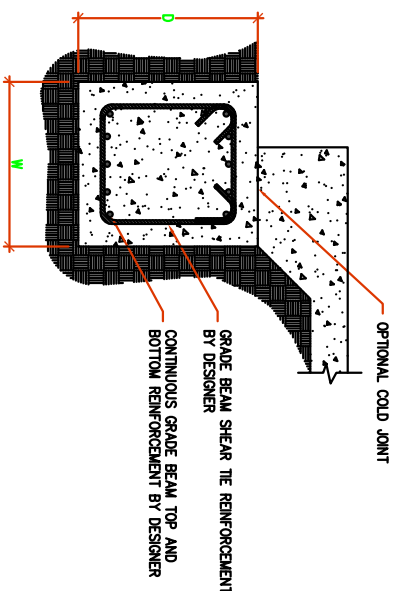
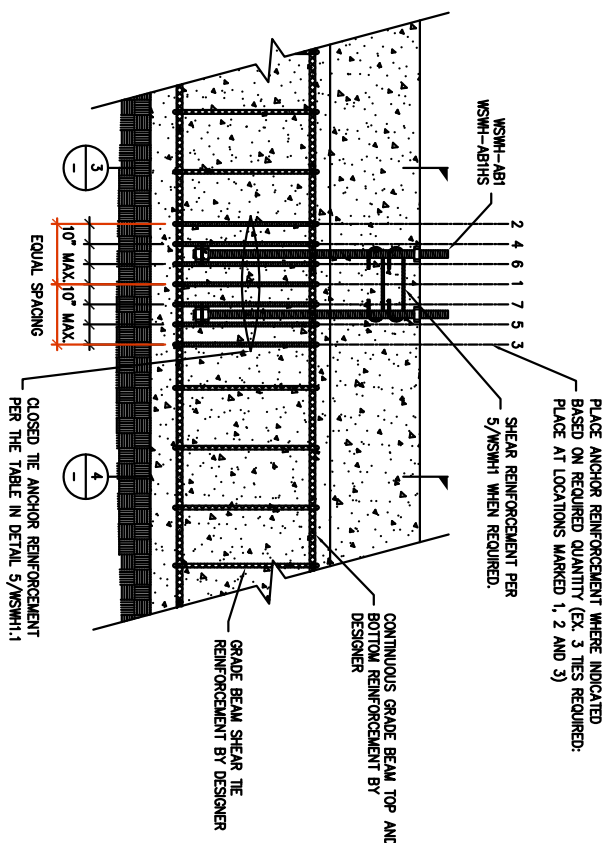
3

CLOSED THE ANCHOR REINFORCEMENT

9



DIMENSIONING NOTES:
H: HEIGHT OF ANCHOR REINFORCEMENT
ASSEMBLY BY DESIGNER, SEE DETAIL
3/MSWH1.1 FOR MINIMUM REQUIREMENTS



DIMENSIONING NOTES:
D: DEPTH BY DESIGNER (24" MIN.)
W: WIDTH BY DESIGNER (18" MIN.)

GRADE BEAM ELEVATION AT 12" WALL MODEL

72

GRADE BEAM SECTION AWAY FROM ANCHOR REINFORCEMENT

4

WSMH GRADE BEAM ANCHOR REINFORCEMENT						
HIGH STRENGTH STRONG-WALL® WOOD SHEARWALL WIDTH (in.)	ANCHOR MODEL NO.	ANCHOR DIAMETER (in.)	ANCHOR REINFORCEMENT FOR WIND AND SEISMIC ^{3,4,5,6}		APPLIED LEFT APPLIED DESIGN	
			STANDARD STRENGTH WSMH-AB1	HIGH STRENGTH (HS) WSMH-AB1HS	STANDARD STRENGTH WSMH-AB1	HIGH STRENGTH (HS) WSMH-AB1HS
12" MODEL			3-#4 CLOSED TIES PER $\left(\frac{2}{-}\right)$	7-#4 CLOSED TIES PER $\left(\frac{2}{-}\right)$	28,500	31,300
18" MODEL	WSMH-AB1 WSMH-AB1HS	1			48,000	72,900
24" MODEL			2-#4 CLOSED TIES PER $\left(\frac{1}{-}\right)$	4-#4 CLOSED TIES PER $\left(\frac{1}{-}\right)$	67,100	103,500

NOTE

1. ANCHOR REINFORCEMENT CONFORMS TO ACI 318-19 SECTION 17.5.2, ACI 318-14 SECTION 17.4.2.9 AND ACI 318-11 SECTION D.5.2.9. FULL-SCALE TESTING WAS USED TO VALIDATE ANCHOR REINFORCEMENT CONFIGURATION AND PLACEMENT.
2. MINIMUM CONCRETE COMPRESSIVE STRENGTH, $f'_c = 2500$ psi.
3. CLOSED TIE ANCHOR REINFORCEMENT TO BE ASTM A615 GRADE 60 (W6) #4 REBAR.
4. GRADE BEAM LONGITUDINAL AND TIE REINFORCEMENT SHALL BE SPECIFIED BY THE DESIGNER FOR FLEXURE AND SHEAR LOADING. DESIGN SHOULD CONSIDER PROJECT SPECIFIC DESIGN LOADS AND ALLOWABLE SOIL PRESSURE.
5. SWAMPY STRONG-TIE RECOMMENDS USING THE TABULATED MINIMUM AMPLIFIED UPRD APPLIED SEISMIC DESIGN MOMENT TO ENSURE GRADE BEAM DESIGN FLEXURE AND SHEAR STRENGTH IS ADEQUATE TO PREVENT PLASTIC HINGE FORMATION UNDER DEMANDS ASSOCIATED WITH ANCHORAGE FORCES CORRESPONDING TO ACI 318-19 SECTION 17.10.3.3, ACI 318-14 SECTION 17.2.3.3.3 AND ACI 318-11 SECTION D.3.3.3.3.
6. DESIGNER MAY USE REDUCED MOMENT DUE TO APPLIED WSMH LATERAL LOAD. MINIMUM MOMENT SHALL BE THE LESSER OF THE TABULATED MOMENT OR THE AMPLIFIED UPRD DESIGN MOMENT FOR SEISMIC. (ASD DESIGN DEMAND $SHAY(0.7) \times 1.4 \times WSMH$ WALL HEIGHT FOR GRADE BEAM).
7. MINIMUM GRADE BEAM DESIGN MOMENT FOR WIND AND SEISMIC IN SEISMIC DESIGN CATEGORY A AND B DETACHED 1 AND 2 FAMILY DWELLINGS IN SDC C: (ASD DESIGN DEMAND $SHAY(0.6) \times WSMH$ WALL HEIGHT).
8. CLOSED TIE MAY BE SINGLE PEECE HOOP OR TWO PEECE ASSEMBLY WITH A U-STIRRUPT WITH STANDARD 135 DEGREE HOOKS AND A TOP CROSS TIE. CAP SEE DETAIL 6/WSMH.1.
9. SEE DETAILS FOR GRADE BEAM ANCHOR REINFORCEMENT PLACEMENT, INSTALLATION AND SPACING REQUIREMENTS. CLOSED TIE ANCHOR REINFORCEMENT QUANTITY IS PER WALL FOR THE 12" WALL MODEL AND PER ANCHOR FOR THE 18" AND 24" MODELS.