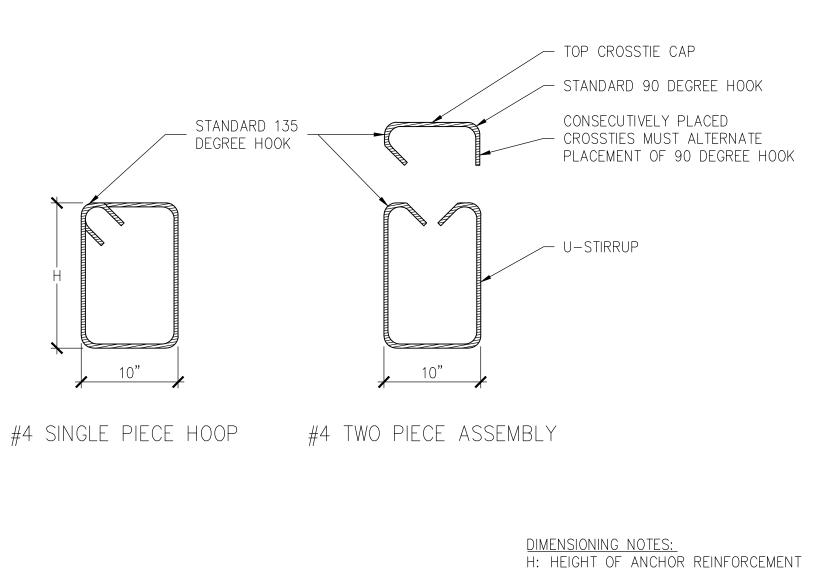


PROFESSIONAL (24" MIN). W: WIDTH BY REGISTERED DESIGN PROFESSIONAL (18" MIN).

W: WIDTH BY REGISTERED DESIGN

PROFESSIONAL (18" MIN).



ASSEMBLY BY REGISTERED DESIGN PROFESSIONAL, SEE DETAIL 3-WSW1.1 FOR MINIMUM REQUIREMENTS

GRADE BEAM SECTION AT ANCHOR REINFORCEMENT

SHEAR REINFORCEMENT PER WSW-AB% 5/WSW1 WHEN REQUIRED. WSW-AB7/8HS CONTINUOUS GRADE BEAM TOP AND BOTTOM REINFORCEMENT BY REGISTERED DESIGN PROFESSIONAL GRADE BEAM SHEAR TIE REINFORCEMENT BY REGISTERED DESIGN PROFESSIONAL \*\*\* MAX. MAX. CLOSED TIE ANCHOR EQUAL SPACING REINFORCEMENT PER TABLE

GRADE BEAM ELEVATION AT 12" AND 18" WALL MODELS

OPTIONAL COLD JOINT GRADE BEAM SHEAR TIE REINFORCEMENT BY REGISTERED DESIGN PROFESSIONAL CONTINUOUS GRADE BEAM TOP AND → BOTTOM REINFORCEMENT BY REGISTERED DESIGN PROFESSIONAL **DIMENSIONING NOTES:** D: DEPTH BY REGISTERED DESIGN

## PROFESSIONAL (24" MIN).

GRADE BEAM SECTION AWAY FROM ANCHOR REINFORCEMENT

			WSW GRADE BEAM ANCHOR REINFOR	RCEMENT		
STRONG-WALL WOOD SHEARWALL WIDTH (in.)	ANCHOR MODEL NO.	ANCHOR DIAMETER (in.)	ANCHOR REINFORCEMENT FOR WIND AND SEISMIC <sup>3,8,9</sup>		AMPLIFIED LRFD APPLIED DESIGN SEISMIC MOMENT (ftlbs.) <sup>4,5,6,7</sup>	
			STANDARD STRENGTH WSW-AB	HIGH STRENGTH (HS) WSW-AB	STANDARD STRENGTH WSW-AB	HIGH STRENGTH (HS) WSW-AB
12" MODEL	WSW−AB7⁄8 WSW−AB7⁄8HS	78	4-#4 CLOSED TIES PER 2	6-#4 CLOSED TIES PER 2	24,700	24,700
18" MODEL					44,100	50,600
24" MODEL	WSW-AB1 WSW-AB1HS	1	2-#4 CLOSED TIES PER 1	4-#4 CLOSED TIES PER 1	75,600	93,600

1. ANCHOR REINFORCEMENT CONFORMS TO 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 (MIN) #4 REBAR. 4. GRADE BEAM LONGITUDINAL AND TIE REINFORCEMENT SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL FOR FLEXURE AND SHEAR LOADING. DESIGN SHOULD CONSIDER PROJECT SPECIFIC DESIGN LOADS AND

ALLOWABLE SOIL PRESSURE. 5. SIMPSON STRONG-TIE RECOMMENDS USING THE TABULATED MINIMUM AMPLIFIED LRFD 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 318-14 SECTION 17.2.3.4.3 AND ACI 318-11 SECTION D.3.3.4.3.

6. DESIGNER MAY USE REDUCED MOMENT DUE TO APPLIED WSW LATERAL LOAD. MINIMUM MOMENT SHALL BE THE LESSER OF THE TABULATED MOMENT OR THE AMPLIFIED LRFD DESIGN MOMENT FOR SEISMIC: (ASD DESIGN DEMAND SHEAR/0.7) x W/o x WSW WALL HEIGHT FOR GRADE BEAM DESIGN.

7. MINIMUM GRADE BEAM DESIGN MOMENT FOR WIND AND SEISMIC IN SEISMIC DESIGN CATEGORY A AND B AND DETACHED 1 AND 2 FAMILY DWELLINGS IN SDC C: (ASD DESIGN DEMAND SHEAR/0.6) x WSW WALL HEIGHT. 8. CLOSED TIE MAY BE SINGLE PIECE HOOP OR TWO PIECE ASSEMBLY WITH A U-STIRRUP WITH STANDARD 135 DEGREE HOOKS AND A TOP CROSS TIE CAP. SEE DETAIL 6/WSW1.1.

9. SEE DETAILS FOR GRADE BEAM ANCHOR REINFORCEMENT PLACEMENT, INSTALLATION AND SPACING REQUIREMENTS. CLOSED TIE ANCHOR REINFORCEMENT QUANTITY IS PER WALL FOR THE 12" AND 18" WALL MODELS, AND PER ANCHOR FOR THE 24" MODEL.

CLOSED TIE ANCHOR REINFORCEMENT

WSW DETAILS STRONG-WALL® VALTERNATE ANCHORAGE DENGINEERED DESIGN

Strong-

SIMPSON (\*) 5956 W. Las Pos Pleasanton, CA Tel: (800) 999-5

07-01-2016 N.T.S. **WSW1.1** OF SHEETS

OB NO.

WSW-AB ANCHOR GRADE BEAM REINFORCEMENT AND DESIGN MOMENTS