

RAKE TABLE	
POLE CLASS	RAKE
1900#	7"
2700#	6"
3700#	5"
4800#	5"
5400#	4"
4300#	4"
7200#	4"
ALL TIMBER	6"

5/8" (IN) ANGLE STRAND EYE BOLT WITH TWO-HOLE LIFT PLATE, 1/2" (IN) LAG BOLT, 1/2" (IN) WASHER, 2 1/2" (IN) SQUARE CURVED WASHER, AND DOUBLE HEX NUTS (DOUBLE EYE BOLT FOR MULTIPLE GUYS) (TYP.)

SEE TIMBER STRAIN POLE FOR DETAILS NOT SHOWN

40' (FT) CLASS 2 TIMBER POLE MIN. ~ UNLESS NOTED OTHERWISE IN THE CONTRACT

RAKE POLE AND INSTALL DOWN GUY ASSEMBLY BEFORE LOADING (SEE RAKE TABLE)

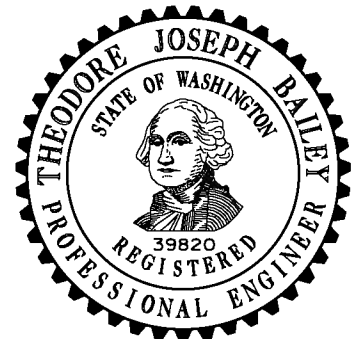
RAKE POLE BEFORE LOADING (SEE RAKE TABLE)

SIGNAL DISPLAY VERTICAL CLEARANCE TO ROADWAY								
HORIZONTAL DISTANCE FROM STOP LINE	40'		45'		50'		53' - 180'	
	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
3-SECTION 5-SECTION DOGHOUSE	16.5'	17.5'	16.5'	19.2'	16.5'	20.9'	16.5'	22.0'
4-SECTION	16.5'	17.0'	16.5'	18.0'	16.5'	19.7'	16.5'	20.8'
5-SECTION	16.5'	17.0'	16.5'	17.5"	16.5'	18.5'	16.5'	19.6'

MEASURED FROM BOTTOM OF SIGNAL HEAD HOUSING TO ROADWAY

NOTES

1. An eight-way expanding anchor may be used as an acceptable alternate to power-installed helical screw anchor.
2. If anchor hole diameter is greater than nominal diameter of folded anchors, a 5' (ft) cover of 6" (in) to 12" (in) size rock shall be tamped in to replace the disturbed soil immediately above the anchor.
3. See **Standard Plans J-27.10** and **J-27.15** for Type IV or Type V Strain Pole details not shown.
4. Self-Locking Cable Clamp Type Dead-Ending Device or Guy Wrap may be used. See **Standard Spec. Sect. 8-20.3(7)** for additional requirements.
5. See Contract for Emergency Preempt Detector locations.
6. Timber strain pole burial depth is 10 percent (%) of the total pole length plus two (2) feet (**Standard Spec. Sect. 8-20.3(14)E**) when foundation soil lateral bearing pressure is 2000 PSF and a friction angle 32 degree (°) or greater soil lateral pressure. Helical anchor soil lateral bearing pressure is 1000 PSF and a friction angle 26 degree (°) or greater. Soil lateral bearing pressure below 2000 PSF for timber strain pole or soil lateral bearing pressure below 1000 PSF for helical anchor requires Special Design. Contact the WSDOT Bridge and Structures office through the Engineer for Special Design timber strain pole burial depth.



SPAN WIRE INSTALLATION
STANDARD PLAN J-15.15-02

SHEET 1 OF 1 SHEET
APPROVED FOR PUBLICATION

DRAWN BY: COLBY FLETCHER

ANCHOR ASSEMBLIES
(SEE STANDARD SPECIFICATION 9-29.4)

STRAIN INSULATOR DETAIL
ELEVATION SIDE VIEW

TIMBER STRAIN POLE
(WITH SELF-LOCKING CABLE CLAMP TYPE DEAD-ENDING DEVICE SHOWN)

TYPE IV OR TYPE V STRAIN POLE STANDARD
(SEE NOTE 3)

DETERMINED BY VEHICLE CLEARANCE REQUIREMENTS: 29' - 0" MAX.