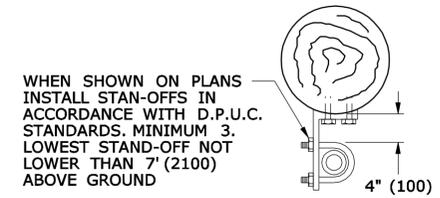
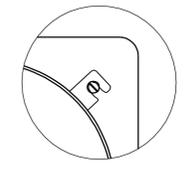


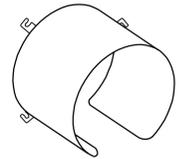
TRAFFIC SIGNAL CABLE COLOR ASSIGNMENTS					
SIGNAL ASSEMBLY & CABLE USED	SIGNAL FUNCTION	ARTERY 1	ARTERY 2	SIDE STREET 1	SIDE STREET 2
2 - WAY 9 CONDUCTOR	RED	RED		BLACK	
	YELLOW	ORANGE		WHITE \ BLACK	
	GREEN	GREEN		BLUE	
	SPARE	GREEN\BLACK		RED \ BLACK	
	NEUTRAL	WHITE			
3 - WAY 12 CONDUCTOR	RED	RED	RED \ BLACK	BLACK	
	YELLOW	ORANGE	ORANGE \ BLACK	WHITE \ BLACK	
	GREEN	GREEN	GREEN \ BLACK	BLUE	
	SPARE	BLUE\BLACK	BLACK \ WHITE		
	NEUTRAL	WHITE			
4 - WAY 15 CONDUCTOR	RED	RED	RED \ BLACK	BLACK	RED \ WHITE
	YELLOW	ORANGE	ORANGE \ BLACK	WHITE \ BLACK	BLACK \ WHITE
	GREEN	GREEN	GREEN \ BLACK	BLUE	GREEN \ WHITE
	SPARE	BLUE\BLACK		BLUE \ WHITE	
	NEUTRAL	WHITE			



**CONDUIT CLAMP DETAIL
PLAN VIEW**



**VISOR ATTACHMENT
DETAIL**



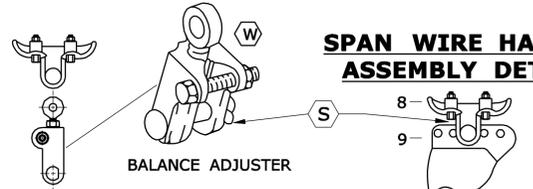
**TUNNEL VISOR
DETAIL**

- ITEM DESCRIPTION, FOR ASSEMBLY DETAILS
- 1 - SERRATED TABBED LOCKRING, ALUMINUM (TAB MUST BE FULL WIDTH OF RING)
 - 2 - GASKET, NEOPRENE
 - 3 - WASHER, STEEL
 - 4 - HEX NUT, STEEL
 - 5 - CONDUIT LOCKNUT, STEEL
 - 6 - BUSHING PLASTIC (ONLY IN JUNCTION BOX OR NIPPLED DOWN TRAFFIC SIGNAL)
 - 7 - OCTAGONAL CAP, ALUMINIUM
 - 8 - SPAN WIRE CLAMP
 - 9 - WIRE OUTLET BODY, STEEL, FEMALE ONLY
 - 10 - NIPPLE, STEEL
 - 11 - HEX NUT, STEEL, NOTCHED W/SETSCREWS

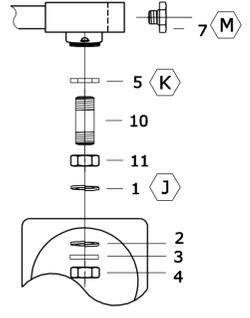
PEDESTRIAN SIGNAL CABLE COLOR ASSIGNMENTS		
SIGNAL ASSEMBLY & CABLE USED	SIGNAL FUNCTION	WIRE COLOR
WALK SIGNAL W/ PUSHBUTTON 7 CONDUCTOR	DON'T WALK	RED
	WALK	GREEN
	NEUTRAL FOR WALK SIGNAL	WHITE
	PEDESTRIAN PUSHBUTTON	BLACK
	NEUTRAL FOR PUSHBUTTON	ORANGE
WALK SIGNAL W/ PUSHBUTTON 7 CONDUCTOR	SPARE CONDUCTOR	WHITE \ BLACK
	SPARE CONDUCTOR *	BLUE \ BLACK
	RED	RED
	YELLOW	ORANGE
	GREEN	GREEN
WALK SIGNAL W/ PUSHBUTTON 7 CONDUCTOR	NEUTRAL FOR TRAFFIC SIGNAL	WHITE
	PEDESTRIAN PUSHBUTTON	BLACK
	NEUTRAL FOR PUSHBUTTON	WHITE \ BLACK
	SPARE CONDUCTOR *	BLUE \ BLACK

* IF 14/7 FEEDS MORE THAN ONE BUTTON, SPLIT THE BUTTONS AND USE BLUE WITH BLACK TRACER FOR THE ADDITIONAL BUTTON.

**TRAFFIC SIGNALS
SPAN WIRE SUSPENDED**



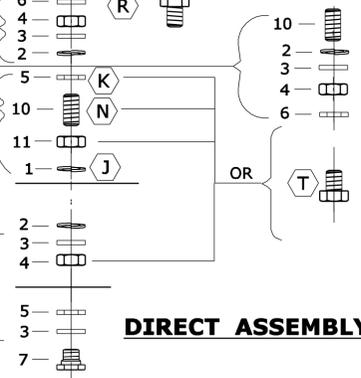
**SPAN WIRE HANGER
ASSEMBLY DETAIL**



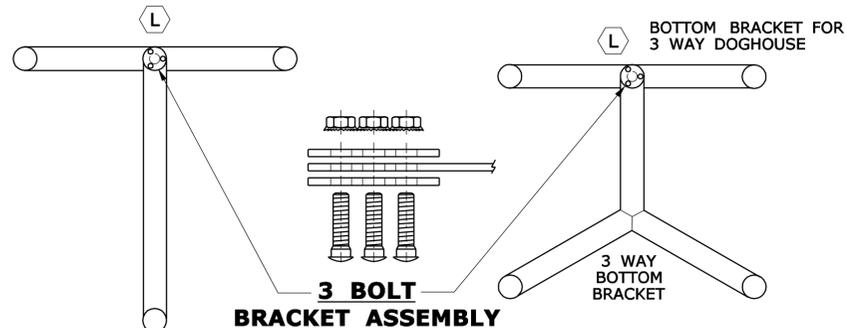
**TWO WAY, THREE WAY
& FOUR WAY NIPPLE DOWN
ASSEMBLY DETAIL**

- NOTES: FOR ASSEMBLY DETAILS
- (J) APPLY SILICONE CAULK BETWEEN OR AROUND SERRATED LOCKRING AND HOUSING.
 - (K) OPTIONAL USE IF NIPPLE THREADS TOO FAR INTO ELBOW.
 - (L) DRILL HOLE IN CENTER OF 2 WAY BOTTOM BRACKET - INSTALL 3 BOLT BRACKET (SEE DETAIL).
 - (M) DO NOT INSERT ORNAMENTAL CAP PAST DOTTED LINE.
 - (N) ALL THREAD.
 - (P) SETSCREW (SQUARE OR ALLEN) ON ALL FITTINGS.
 - (R) CHASE NIPPLE CAN BE SUBSTITUTED FOR THE COMBINATION OF ITEMS 6, 5 AND 10.
 - (S) INSTALL STAINLESS STEEL WASHER ON INSIDE OF COTTER PIN. COTTER PIN AND WASHER SHALL BE ON SIDE OF HANGER AWAY FROM SIGNAL CABLES.
 - (T) CHASE NIPPLE CAN BE SUBSTITUTED FOR COMBINATION 4, 5, 10 AND 11.
 - (U) SAME AS (D) EXCEPT TOP OPENING MAY BE THREADED.
 - (V) DOOR HINGE ON OUTSIDE OF SIDE BY SIDE ASSEMBLY.
 - (W) USE BALANCE ADJUSTER TO PLUMB SIGNAL ASSEMBLIES AS REQUIRED.

**UPPER CENTER
SUPPORT DETAIL**



DIRECT ASSEMBLY DETAIL



**3 BOLT
BRACKET ASSEMBLY**

TABLE NOTES:

1. INSTALL SEPARATE CABLE BETWEEN CLOSURE AND EACH TRAFFIC SIGNAL ASSEMBLY. WIRE EACH TRAFFIC SIGNAL SECTION SEPARATELY BACK TO CABLE CLOSURE. JUMPERS BETWEEN TERMINALS ARE NOT ALLOWED EXCEPT ON NEUTRAL CONDUCTORS.
2. WIRE ALL SIGNALS, SAME DIRECTION FROM CONTROLLER, SEPARATELY WITH CONDUCTORS IN 21 CONDUCTOR CABLE, EVEN IF INDICATIONS ARE IDENTICAL.
3. CABLES THAT FEED PEDESTRIAN INDICATIONS, PUSH BUTTONS, AND DETECTORS BYPASS CABLE CLOSURE.
4. REFER TO INTERCONNECT CABLE INSTALLATION DETAIL SHEET FOR CABLE CLOSURE - TYPE A.

NOTES:

- SERVICE CONDUCTORS: THW, THWN OR XHHW. INDIVIDUAL WIRES MAY BE USED IN LIEU OF MULTI-CONDUCTOR CABLE.
- ALL WORK ON UTILITY POLES MUST COMPLY WITH CURRENT DPUC REGULATIONS AND NESC RULES.
- (A) ATTACH SPAN AT LEAST 16" (400) BELOW LOWEST POWER COMPANY ATTACHMENT, AND AT LEAST 20" (500) ABOVE HIGHEST COMMUNICATIONS ATTACHMENT, UNLESS OTHERWISE DIRECTED ON PLANS.
 - (B) INSTALL STRAIN INSULATOR APPROX 3' (900) FROM UTILITY POLE.
 - (C) ELBOW OR "T" FITTING MUST HAVE NOTCH FOR SERRATED TABBED LOCKRING.
 - (D) TOP BRACKET CENTER HUB SHALL BE MIN 4" (100) ROUND AND 3" (75) DEEP OR EQUAL VOLUME. SERRATION CAST IN HUB OR TABBED OR SERRATED LOCKRING, TOP OPENING NOT THREADED.
 - (E) NIPPLE LENGTH DEPENDS ON SPAN HEIGHT.
 - (F) SAG OF SPAN TO BE 5%± LENGTH, UNLESS OTHERWISE ALLOWED BY ENGINEER.
 - (G) FACE ALL ENTRANCE FITTINGS TOWARD CABLE CLOSURE UNLESS SIGNAL ASSEMBLY IS UNBALANCED AND A BALANCE ADJUSTER IS USED.
 - (H) INSTALL EXTENSION NIPPLE ON TOP OF SIGNAL HOUSING SO BOTTOM OF ALL SIGNALS ARE EVEN.
 - (I) REFER TO TYPICAL "SIGN FACE SHEET ALUMINIUM, R-SERIES SIGNS", AND RELATED SIGN APPURTANCES. MAXIMUM SIGN SIZE 24" x 24" (600 x 600). ALL STAINLESS STEEL HARDWARE.
- SECURE LOUVERS TO TUNNEL VISORS WITH 3 STAINLESS STEEL SCREWS.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
8	1-08	REVISED FOR 2007 DIGITAL DESIGN ENVIRON. STANDARDS	-
7	1-07	REVISED NOTES & REMOVED NEOPRENE GASKET FROM BOTTOM OF SIGNAL HOUSING. REMOVED CABLE CLOSURE DETAIL AND OTHER UPGRADES.	-

DIMENSIONS ARE IN ENGLISH (" AND ") AND METRIC UNITS (mm). METRIC CONVERSIONS OVER 1" ROUNDED TO NEAREST 5 mm - UNDER 1" TO NEAREST 1 mm.

DESIGNER/DRAFTER:
D. K. SWINBURNE
CHECKED BY:
R. M. WATERMAN
SCALE - NONE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

SIGNATURE/
BLOCK:
OFFICE OF ENGINEERING
SUBMITTED BY:
MICHAEL J. GARVIE
APPROVED BY: _____ DATE: _____
ROBERT S. TWOROWSKI 1-31-07

PROJECT TITLE:
TOWN:
PROJECT NO.
DRAWING NO.
DRAWING TITLE:
**TYPICAL INSTALLATION DETAILS
TRAFFIC SIGNALS & CABLE ASSIGNMENTS**

11 SHEET NO.