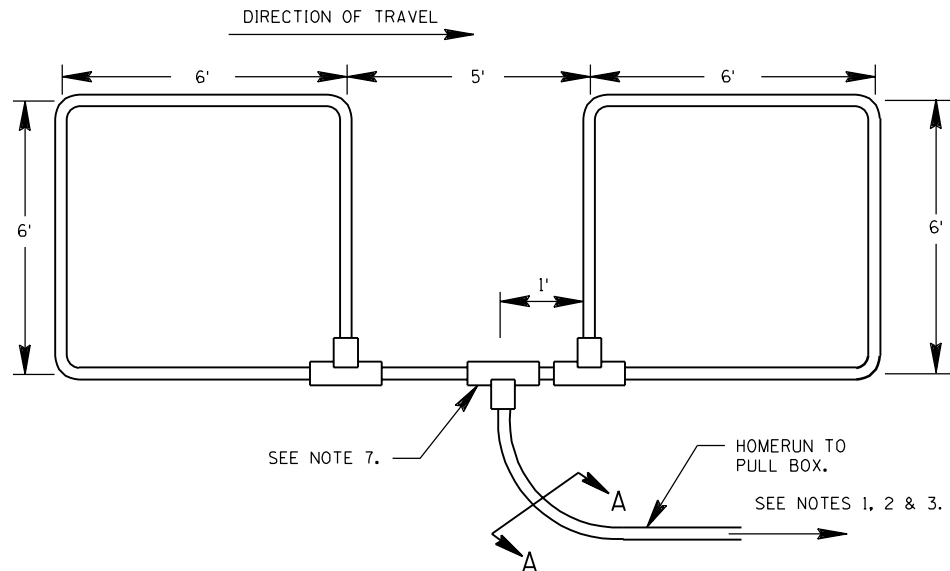
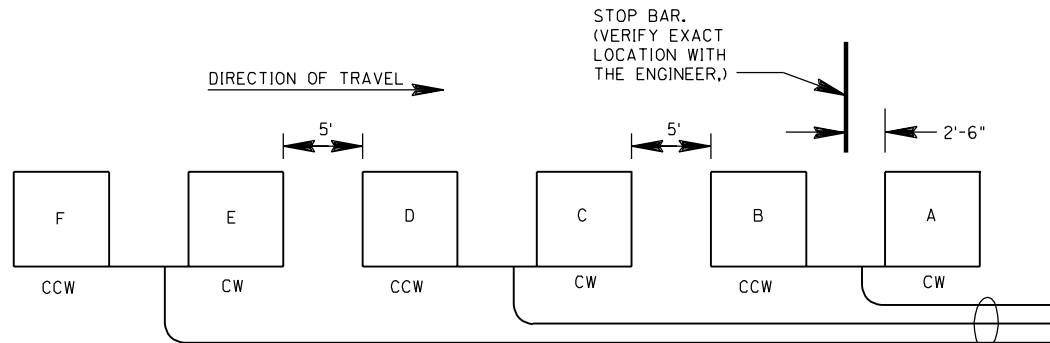


WIRING DIAGRAM  
(5 TURNS FOR EACH LOOP)

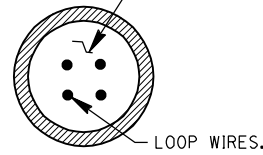


PREFORMED 6' X 6' LOOP DETAIL  
FOR TRAFFIC SIGNALS AND ADVANCE QUEUE DETECTORS  
(MANUFACTURE IN PAIRS)



PLACEMENT DIAGRAM  
(FOR MULTIPLE OF 6 LOOPS)

HOT APPLIED RUBBERIZED SEALANT. (WIRE TO BE FULLY ENCLOSED)



SECTION  
A-A



PLAN SYMBOL

**NOTES:**

1. Loop detectors at PCCP areas on bridge decks shall be preformed loops. They shall be factory formed of  $\frac{3}{8}$ " I.D. polypropylene (equivalent to Schedule 40) or 250 psi  $\frac{3}{8}$ " I.D. hydraulic hose and shall be hot applied rubberized sealant filled with No. 16 AWG stranded wires with TFFN insulation. The entire homerun approaching the pull box shall be fabricated from 250 psi  $\frac{3}{8}$ " I.D. hydraulic hose containing conductors encased in rubberized sealant. See Special Provisions.
2. The detector loop layouts shown are general in nature only. The contractor shall verify the length and direction of the homeruns with actual field conditions.
3. Wiring diagram for loops shall be per requirements of the details on this sheet. Each homerun conductor pair, twisted 4 turns per foot shall be tagged by the manufacturer to identify current flow polarity (S=Start & F= Finish). All loops in the same lane shall be wound with alternate polarity in clockwise (CW) or counterclockwise (CCW) direction as shown above.
4. All loop assemblies shall be tested before and after concrete pours.
5. No cutting of reinforcing steel will be allowed for the placement of detector loops and homeruns.
6. Each homerun tube shall be tagged in the pull box with a stainless steel band to identify each lane and loop combination. Example: 1AB, 1CD, 1EF, Lane #1 is defined as the outside lane near the right side curb.
7. The homerun "T" connector shall be used as a loop winding polarity indicator. Homerun "T" connectors located at more than 1 Ft. offset shown shall not be accepted.
8. Loop detectors shall be located in the center of the traveled lane. The exact location of stop bars and lane stripes shall be verified with the Engineer prior to loop installation.
9. Preformed loop detectors shall be installed in existing subgrade immediately below new PCCP.

DESIGN APPROVED	<b>SIGNATURE</b>	ARIZONA DEPT. OF TRANSPORTATION	REV.
APPROVED FOR DISTRIBUTION		INTERMODAL TRANSPORTATION DIVISION	
	<b>ON FILE</b>	TRAFFIC SIGNALS & LIGHTING	
		STANDARD DRAWINGS	
		PRE-FORMED LOOP DETECTORS	DRAWING NO.
		IN PCCP	T.S. 7-7