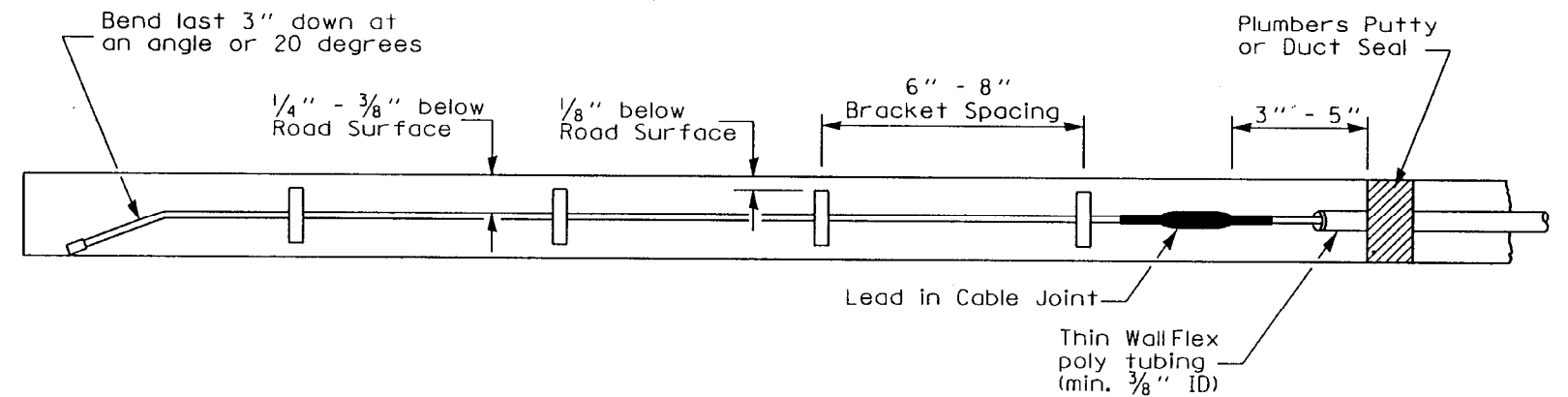


## Piezo Detail



### NOTES:

- 1) THE LOCATION OF THE PROPOSED ATR 5290 SITE IS STATION 805+25. THE CONTROLLER CABINET AND SOLAR EQUIPMENT SHALL BE PLACED ON THE EAST SIDE OF I-57 NEAR THE RIGHT OF WAY LINE. IF FIELD CONDITIONS WARRANT, THE LOCATION OF THE ATR SITE MAY NEED TO BE MODIFIED TO ACCOMMODATE THE CONTROL CABINET AND FOUNDATION. THE FINAL LOCATION SHALL BE DETERMINED BY THE ENGINEER AND SHALL REMAIN IN CLOSE PROXIMITY OF THE MEDIAN CROSS OVER.
- 2) THE PIEZO ELECTRIC AXLE SENSOR LEAD-IN TO THE PAVEMENT IS INCLUDED IN THE PAY ITEM FOR DETECTOR LOOP, TYPE I
- 3) UPON COMPLETION OF THE INSTALLATION OF THE ATR SITE AND THE REMOVAL OF THE EXISTING TERMINAL FACILITY, THE EARTH DISTURBED BY CONSTRUCTION OPERATIONS SHALL BE RETURNED TO ITS ORIGINAL STATE. ANY EARTHWORK OR SEEDING REQUIRED WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE ASSOCIATED PAY ITEMS IN THE BILL OF MATERIALS.
- 4) THE DEPARTMENT WILL SUPPLY THE INTERNAL CABINET COMPONENTS. THE CABINET PROVIDED BY THE CONTRACTOR SHALL HAVE TWO SHELVES AND A BACKPLAIN. THE BACKPLAIN SHALL BE DELIVERED TO THE ENGINEER AS SOON AS IT IS ACQUIRED SO THAT THE INTERNAL COMPONENTS CAN BE MOUNTED BY THE DEPARTMENT. MR. RAMON TAYLOR (217) 782-2065, SHALL BE CONTACTED IN ORDER TO COORDINATE THE DELIVERY OF THE BACKPLAIN.

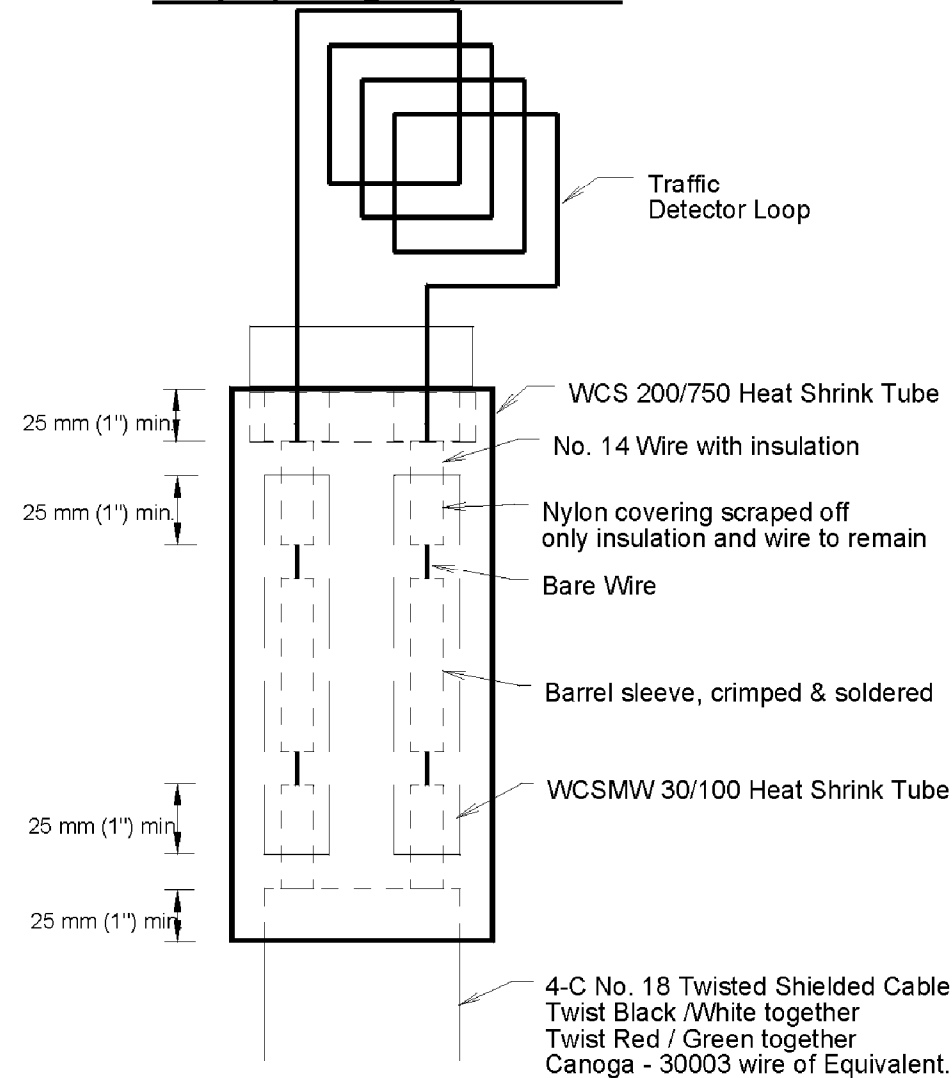
### POSSIBLE SOURCES FOR SPECIFIED ITEMS

Material	Possible Source	Contact Person	Telephone Number	Location
Loop Detector Wire encased in Orange Detecta-Duct Tubing	Kris-Tech Wire Company (manufacturer)	Sales Person	(315) 339-5288	Rome, N.Y.
Conoga 2-pair shielded wire suitable for direct burial	3M Traffic Products Division (manufacturer)	Sales Person	(612) 733-1110	Minneapolis, MI
RL-200 Polyurethane resin	IRD - PAT Traffic Inc. (distributor)	Scott Sherwood	(815) 675-1430	Spring Grove, IL
Class-II Bare Linguine (BL) Sensors	Measurement Specialties, Inc (mfg.) IRD - PAT Traffic Inc. (distributor)	Don Halverson Scott Sherwood	(610) 650-1580 (815) 675-1430	Valley Forge, PA Spring Grove, IL

NOTE: IF MANUFACTURERS ARE LISTED RATHER THAN DISTRIBUTORS, IT MAY BE NECESSARY TO CONTACT THE MANUFACTURER FOR THE NEAREST DISTRIBUTOR OR VENDOR.

NOT TO SCALE

## Loop Splicing Requirements



Minimum 25 mm (1") Heat Shrink Tube overlap on wire.  
PVC & Shielded cable to form water tight seal.

Note: Not to Scale

REVISIONS		Illinois Department of Transportation Office of Planning and Programming			
Name	Date	Drawn By:	Checked By:	Date:	Scale:
		R. Taylor	R. Taylor	01/20/00	NONE

BILL OF MATERIALS			
CODE NO.	ITEM	UNIT	QUANTITY
81012400	CONDUIT IN TRENCH, 1 1/4" DIA., PVC	FOOT	108
81012800	CONDUIT IN TRENCH, 3" DIA., PVC	FOOT	64
81021350	CONDUIT PUSHED, 3" DIA., PVC	FOOT	92
81400200	HEAVY-DUTY HANDHOLE	EACH	4
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	163
86300300	CONTROLLER CABINET TYPE III	EACH	1
87800200	CONCRETE FOUNDATION, TYPE D	FOOT	3
88600100	DETECTOR LOOP, TYPE I	FOOT	156
X0300780	PIEZO ELECTRIC SENSOR CABLE IN CONDUIT	FOOT	550
X0323014	ELECTRIC CABLE IN CONDUIT, CONOGA-30003	FOOT	892
X0323015	PIEZO ELECTRIC AXLE SENSOR, CLASS II	FOOT	22
X0326860	SOLAR EQUIPMENT	EACH	1