



AUTOMATIC TRAFFIC RECORDER INSTALLATION
6 LANE SECTION
 OPPOSITE DIRECTION TO BE THE SAME

QUANTITIES CARRIED TO GENERAL SUMMARY

ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION
603	00400	120	LIN. FT.	4" CONDUIT, TYPE E
625	25500	52	LIN. FT.	CONDUIT, 3", 713.04
625	25900	120	LIN. FT.	CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, 3"
625	29000	32	LIN. FT.	TRENCH
625	30700	4	EACH	PULL BOX, 713.08, 18"
625	32000	2	EACH	GROUND ROD
630	27300	6	EACH	PIEZOCABLE CLASS II, AXLE SENSOR
632	27500	556	LIN. FT.	LOOP DETECTOR PAVEMENT CUTTING
632	64900	1932	LIN. FT.	LOOP DETECTOR WIRE, TYPE E
632	65200	360	LIN. FT.	LOOP DETECTOR LEAD-IN CABLE
632	72000	1	CU. YD.	CONCRETE FOR ANCHOR BASE FOUNDATION
632	89800	2	EACH	PEDESTAL, 3', TRANSFORMER BASE
633	99000	2	EACH	CONTROLLER ITEM, MISC.: CABINET, WITHOUT CONTROLLER, PREWIRED, PEDESTAL MOUNTING, TYPE G, AS PER PLAN

NOTES

- ALL LOOPS SHALL BE 6' X 8'. LOOPS SHALL BE SPACED 16'0" FROM LEADING EDGE TO LEADING EDGE. INSTALLATION OF LOOPS SHALL CONFORM TO TC-82.10.
- THE PIEZOCABLE AXLE SENSOR SHALL BE A IRD DYNAX MODEL AS400 AXLE SENSOR MADE BY INTERNATIONAL ROAD DYNAMICS OR AN AUTOLOGGER MADE BY GATES OR APPROVED EQUAL. IT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS DIRECTION. THE END OF A PIEZOCABLE AXLE SENSOR SHALL NOT BE INSTALLED WITHIN SIX (6) INCHES OF A LONGITUDINAL JOINT. PAYMENT WILL BE AT THE CONTRACT UNIT PRICE PER EACH FOR ITEM SPECIAL PIEZOCABLE AXLE SENSOR AND SHALL INCLUDE ALL MATERIAL, LABOR, TOOLS, EQUIPMENT AND INCIDENTALS NECESSARY FOR EACH INSTALLATION, IN PLACE COMPLETE AND ACCEPTED.
- THE CABINET SHALL BE CLEAN CUT IN DESIGN AND APPEARANCE AND SHALL CONFORM TO THE FOLLOWING:
 - IT SHALL BE MADE OF ACCEPTABLE STRENGTH ALUMINUM (NATURAL FINISH).
 - THE MINIMUM USEABLE INSIDE DIMENSIONS SHALL BE: HEIGHT 30", WIDTH 19", AND DEPTH 13".
 - HINGED DOOR SHALL BE PROVIDED ON THE FRONT OF THE CABINET WHICH SHALL INCLUDE SUBSTANTIALLY THE FULL AREA OF THE FRONT OF THE CABINET.
 - THE DOOR SHALL BE FULLY GASKETED SO THAT WHEN CLOSED IT SHALL FIT CLOSELY TO THE GASKETING MATERIAL, MAKING THE CABINET WEATHER RESISTANT. A ONE POINT LATCH SHALL BE PROVIDED FOR THIS PURPOSE.
 - THE DOOR SHALL BE PROVIDED WITH AN ACCEPTABLE STRONG LOCK WITH PERMANENT LUBRICATION AND A WEATHERPROOF TAB AND FURNISHED WITH TWO KEYS.
 - THE DOOR PINS SHALL BE GREASE-LUBRICATED AND OF A NON-CORRODING STEEL MATERIAL.
 - THE CABINET SHALL CONTAIN ONE SHELF FOR SUPPORT OF TRAFFIC COUNTING EQUIPMENT. SHELF TO BE CENTERED AT 15 INCHES FROM THE TOP OF THE CABINET.
 - THE CABINET SHALL INCLUDE A VENT.
 - TWO EACH 12 WIRE TERMINAL BLOCKS 6 INCHES FROM BOTTOM OF CABINET CENTERED ON BACK PANEL (PENN UNION # 6012 OR APPROVED EQUAL).
 - MOUNTING FACILITIES SHALL INCLUDE ONE BACK PANEL WITH 5 HOLES (ALUMINUM).

ALL PIECES SHALL BE SMOOTH AND FREE FROM FLAWS, CRACKS, BLOWHOLES AND OTHER IMPERFECTIONS. THE CABINET SHALL BE ORIENTED SO THAT THE DOOR OPENS TOWARD THE ROADWAY.
- CABLE AND WIRE SHALL BE IDENTIFIED IN ACCORDANCE WITH 632.04. IDENTIFICATION SHALL INCLUDE THE DIRECTION OF TRAVEL (i.e., NB, WB) AND THE LOOP NUMBER AS SHOWN. EACH CABLE AND WIRE SHALL HAVE 5'0" COILED IN THE CONTROLLER CABINET FOR CONNECTION BY OTHERS.
- ADJACENT LOOPS (TRANSVERSE AND LONGITUDINAL) SHALL BE INSTALLED IN OPPOSITE DIRECTIONS, i.e., LANE 1, LOOP 1 AND LANE 2, LOOP 1 CLOCKWISE; LANE 1, LOOP 2 AND LANE 2, LOOP 3 COUNTERCLOCKWISE.
- REFERENCE IS MADE TO STANDARD DRAWING HL-30.11 FOR DETAILS OF DRAINING PULLBOXES. UNDERDRAINS FOR PULLBOXES SHALL BE USED AS DIRECTED BY THE ENGINEER AND SHALL BE PROVIDED WHERE THE LENGTH REQUIRED FOR A SATISFACTORY OUTLET DOES NOT EXCEED APPROXIMATELY 20 FEET. AN ESTIMATED QUANTITY OF ITEM 603, 4" CONDUIT TYPE E IS INCLUDED IN THE GENERAL SUMMARY FOR THIS PURPOSE.
- FIVE (5) WORKING DAYS PRIOR TO THE SCHEDULED INSTALLATION, THE CONTRACTOR SHALL CONTACT MR. JAMES ROBSON AT 614-466-3727.
- ALL ITEMS SHALL CONFORM TO C & M SPECIFICATIONS 625, 713, 632, 732, 633 AND 733, UNLESS OTHERWISE SPECIFIED.
- ON AN EIGHT LANE SECTION, LANES 1 AND 2 SHALL BE SAWED TO ONE SIDE OF THE ROADWAY AND LANES 3 AND 4 SHALL BE SAWED TO THE OTHER.

REVISED BY:	DATE:
TRAFFIC CONTROL	
AUTOMATIC TRAFFIC RECORDER INSTALLATION — 6	
PLAN INSERT SHEET	
DATE	06/06/91
DATE	09/28/92

DELIVERED FEB 1 0 0994