

GENERAL NOTES

CALC BY	LAK-6/84/91-0.11/ 0.43/1.22	OHIO
DATE		FHWA 5
CHKD BY		REGION
DATE		FEDERAL
		PROJECT

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LAKE COUNTY

632 INTERCONNECT CABLE

THIS ITEM SHALL CONFORM TO 632.22 AND SHALL BE OF THE AERIAL SELF-SUPPORTING INTEGRAL MESSENGER TYPE WITH A FIGURE "8" CROSS SECTION AND SHALL INCLUDE POLE CLAMPS AND SPLICE ENCLOSURES.

633 CONTROLLER, ACTUATED EITHER 2, 3, 4, OR 8-PHASE, SOLID STATE DIGITAL, AS PER PLAN

THE CONTRACTOR SHALL FURNISH AND INSTALL AN ACTUATED, DIGITAL CONTROLLER WITH CABINET AND ALL OTHER ACCESSORIES THAT ARE NECESSARY TO MAKE THE CONTROLLER COMPLETELY FUNCTIONAL AND OPERATIONAL AS SHOWN ON THE PLAN SHEETS.

THE CONTROLLER SHALL BE CAPABLE OF PROVIDING THE SIGNAL DISPLAYS AND TIMING AS SHOWN ON PLAN SHEETS.

THE CONTROLLER AND CABINET SHALL CONFORM TO U.D.O.T. SPECIFICATIONS 633 AND 733 AND SHALL HAVE THE FOLLOWING FEATURES:

1. THE LOAD SWITCHES SHALL PROVIDE INPUT AND OUTPUT INDICATORS.
2. THE CONFLICT MONITOR CAPABLE OF EITHER 2, 3, 4, OR 8-PHASE AS PER PLAN SHALL HAVE EXTENDED MONITORING AS PER 733.04 (3B).
3. THE FOLLOWING SWITCHES SHALL BE ACCESSIBLE VIA THE POLICE PANEL DOOR:
 - A. SIGNAL SHUTDOWN
 - B. FLASH CONTROL
 - C. AUTOMATIC/MANUAL TRANSFER
 - D. MANUAL CONTROL PUSHBUTTON
4. THE FOLLOWING SWITCHES SHALL BE MOUNTED ON THE SWITCH PANEL IN THE CABINET:
 - A. RUN-STOP/NORMAL
 - B. CONTROLLER SHUTDOWN
 - C. DETECTOR TEST
5. A SERVICE LAMP WITH DOOR ACTIVATED ON/OFF SWITCH.
6. THE CABINET EXTERIOR SHALL BE ALUMINUM COLORED AND THE INTERIOR SHALL BE WHITE.
7. THE CABINET SHALL HAVE THE MAIN DOOR PROVIDED WITH A RIGHT-HAND HINGE.
8. THE CONTRACTOR SHALL FURNISH FOR APPROVAL A CABINET PLAN SHOWING COMPONENT PLACEMENT.

PAYMENT FOR 633 CONTROLLER, ACTUATED 2, 3, 4, OR 8-PHASE, SOLID STATE, DIGITAL, AS PER PLAN

WILL BE MADE AT THE CONTRACT PRICE FOR EACH CONTROLLER IN PLACE, INCLUDING PREWIRED CABINET COMPLETELY INSTALLED, WIRED, TESTED, AND ACCEPTED.

619 FIELD OFFICE

THE CONTRACTOR SHALL PROVIDE A SUITABLE FIELD OFFICE HAVING A MINIMUM OF 300 SQ. FT. OF FLOOR SPACE WHICH SHALL BE IN ACCORDANCE WITH 619.02. PAYMENT SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 619, FIELD OFFICE.

632 POWER SUPPLY FOR TRAFFIC SIGNALS

ELECTRIC POWER SHALL BE OBTAINED FROM THE CLEVELAND ELECTRIC ILLUMINATING COMPANY AT THE LOCATION INDICATED ON THE PLANS. POWER SUPPLIED SHALL BE 115 VOLTS.

632 VEHICULAR SIGNAL HEAD, 3, 4 & 5 -SECTION, 12" LENS, 1-WAY, AS PER PLAN

SECTION 732.01 OF THE SPECIFICATIONS IS MODIFIED FOR THIS PROJECT AS FOLLOWS:

- A) SIGNAL HEADS AND VISORS SHALL BE CONSTRUCTED OF POLYCARBONATE PLASTIC AND MEET ITE SPECIFICATIONS
- B) PLASTIC LENSES SHALL BE USED
- C) PIPE, SPACERS, AND FITTINGS CONSTRUCTED OF POLYCARBONATE PLASTIC MAY BE USED IN LIEU OF GALVANIZED STEEL OR ALUMINUM.
- D) PROPER EXTERIOR COLORS SHALL BE OBTAINED BY USE OF COLORED PLASTIC MATERIAL RATHER THAN PAINTING.

632 PEDESTRIAN SIGNAL HEADS, TYPE - D2, AS PER PLAN

SECTION 732.05 OF THE SPECIFICATIONS IS MODIFIED FOR THIS PROJECT AS FOLLOWS:

- A) SIGNAL HEADS AND VISORS SHALL BE CONSTRUCTED OF POLYCARBONATE PLASTIC AND MEET ITE SPECIFICATIONS
- B) PLASTIC LENSES SHALL BE USED.
- C) PIPE, SPACERS, AND FITTINGS CONSTRUCTED OF POLYCARBONATE PLASTIC MAY BE USED IN LIEU OF GALVANIZED STEEL OR ALUMINUM.
- D) PROPER EXTERIOR COLORS SHALL BE OBTAINED BY USED OF COLORED PLASTIC MATERIAL RATHER THAN PAINTING.

TRAFFIC CONTROL STANDARD CONSTRUCTION DRAWINGS

REFERENCES TO SUPPLEMENTAL SPECIFICATIONS 857, 858, 861, 957, 958, AND 961 ON THE TRAFFIC CONTROL STANDARD CONSTRUCTION DRAWINGS IN THESE PLANS SHALL BE CONSIDERED TO READ AS RESPECTIVE REFERENCES TO ITEMS 630, 631, 633, 730, 731, 732 AND 733.

GUARANTEE

THE CONTRACTOR SHALL GUARANTEE THAT THE TRAFFIC CONTROL SYSTEM INSTALLED AS PART OF THIS CONTRACT SHALL OPERATE SATISFACTORILY FOR A PERIOD OF 90 DAYS FOLLOWING COMPLETION OF THE 10-DAY PERFORMANCE TEST. IN THE EVENT OF UNSATISFACTORY OPERATION, THE CONTRACTOR SHALL CORRECT FAULTY INSTALLATIONS, MAKE REPAIRS, AND REPLACE DEFECTIVE PARTS WITH NEW PARTS OF EQUAL OR BETTER QUALITY. EQUIPMENT, MATERIAL AND LABOR COSTS INCURRED IN CORRECTING AN UNSATISFACTORY OPERATION SHALL BE BORNE BY THE CONTRACTOR.

THE GUARANTEE SHALL COVER THE FOLLOWING ITEMS OF THE TRAFFIC CONTROL SYSTEM: CONTROLLERS AND ASSOCIATED EQUIPMENT AND DETECTOR AMPLIFIERS, INTERCONNECT ITEM AND MASTER CONTROL EQUIPMENT.

CUSTOMARY MANUFACTURER'S GUARANTEES FOR THE FOREGOING ITEMS SHALL BE TURNED OVER TO THE CITY OF WILLOUGHBY HILLS FOLLOWING ACCEPTANCE OF THE EQUIPMENT.

THE COST OF GUARANTEEING THE TRAFFIC CONTROL SYSTEM WILL BE INCIDENTAL TO AND INCLUDED IN THE CONTRACT UNIT PRICE OF THE VARIOUS ITEMS MAKING UP THE SYSTEM.

SUMMARY OF ADDITIONAL RIGHT OF WAY

PARCEL N°	OWNER	SHEET N°	OWNER RECORD		TAKE		REMARKS
			VOL.	PAGE	L x W	ACREAGE	
1R	RENAISSANCE PROP. CO.	5	35	1388	38'x47'	0.041	LOOP DETECTOR EASEMENT
2R	WINCHESTER DEVEL.	5	79	1241	25'x37'	0.025	LOOP DETECTOR EASEMENT
4-R	LEONARD FUCHS TR.	8	633	194	40'x30'	0.028	LOOP DETECTOR EASEMENT
1R-1	RENAISSANCE PROP. CO.	6	35	1388	175' x 110'	0.306	LOOP DETECTOR EASEMENT
3R	FEDERATED DEPT. STORES, INC	7	748	74	175' x 30'	0.055	HIGHWAY EASEMENT

TRAFF-PRO CONSULTANTS INC.
WILLOUGHBY, OHIO

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

DESIGNED	DRAWN	TRACED	CHECKED	REVIEW	DATE	REVISED