

# GENERAL NOTES

CALC. BY DATE	GENERAL NOTES	OHIO	3 25
CHKD. BY DATE		FHWA REGION 5	
		FEDERAL PROJECT	

LAKE COUNTY  
LAK-283/640-0.23/0.00

632 LOOP DETECTOR AMPLIFIER, DELAY AND EXTENSION TYPE

EACH AMPLIFIER SHALL BE NUMBERED TO CORRESPOND TO ITS LOOP NUMBER(S). THE LOOP NUMBERS ARE SHOWN ON EACH PLAN SHEET

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.

632 VEHICULAR SIGNAL HEAD, 3-SECTION, 8" LENS, 1-WAY, AS PER PLAN

THIS ITEM SHALL CONSIST OF THE FURNISHING AND INSTALLING POLY-CARBONATE TYPE SIGNAL HEADS 3 SECTION, 8" LENS, 1-WAY.

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

THIS ITEM SHALL CONSIST OF THE FURNISHING AND INSTALLING POLY-CARBONATE TYPE SIGNAL HEADS 3-SECTION, 12" LENS, 1-WAY. CERTAIN HEADS ARE TO BE SUPPLIED WITH TUNNEL VISORS WITH SLIT ALONG BOTTOM AS PER PLAN SHEETS.

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

THIS ITEM SHALL CONSIST OF THE FURNISHING AND INSTALLING POLY-CARBONATE TYPE SIGNAL HEADS 5-SECTION, 12" LENS, 1-WAY. CERTAIN HEADS ARE TO BE SUPPLIED WITH TUNNEL VISORS WITH SLIT ALONG BOTTOM AS PER PLAN SHEETS

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 WILLOWICK 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. (SEE NOTE IN PROPOSAL.)

MAINTENANCE OF NEW TRAFFIC SIGNAL

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF EACH TRAFFIC SIGNAL HE HAS IN PART OR FULLY CONSTRUCTED UNTIL SUCH TIME AS THE TESTING REQUIREMENTS ARE SATISFIED, AND THE SIGNAL INSTALLATION IS COMPLETE AND ACCEPTED BY THE ENGINEER.

THE CONTRACTOR SHALL CORRECT AS QUICKLY AS POSSIBLE ALL OUTAGES OR MALFUNCTIONS. HE SHALL PROVIDE THE CITY AND THE ENGINEER SUCH ADDRESSES AND PHONE NUMBERS WHERE HIS MAINTENANCE FORCES ARE LOCATED. THE CONTRACTOR SHALL PROVIDE ONE OR MORE PERSONS TO RECEIVE ALL CALLS AND DISPATCH THE NECESSARY MAINTENANCE FORCES TO CORRECT OUTAGES. SUCH A PERSON OR PERSONS MAY BE USED TO PERFORM OTHER DUTIES AS LONG AS PROMPT ATTENTION IS GIVEN TO TROUBLE CALLS. ALL LAMP OUTAGES, CABLE OUTAGES, ELECTRICAL FAULTS, EQUIPMENT MALFUNCTIONS, AND MISALIGNED SIGNAL HEADS SHALL BE CORRECTED TO THE SATISFACTION OF THE ENGINEER WITH THE SIGNAL BACK IN SERVICE WITHIN FOUR HOURS AFTER THE CONTRACTOR IS NOTIFIED OF THE OUTAGE.

IN THE EVENT NEW SIGNALS ARE DAMAGED PRIOR TO ACCEPTANCE, ALL DAMAGED EQUIPMENT, SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. THE SIGNAL SHALL BE BACK IN SERVICE WITHIN EIGHT HOURS AFTER THE CONTRACTOR'S NOTIFICATION OF THE OUTAGE.

WHERE THE CONTRACTOR HAS FAILED TO OR CANNOT RESPOND TO AN OUTAGE OF SIGNAL EQUIPMENT AT LOCATIONS WITHIN HIS RESPONSIBILITY, WITHIN PERIODS AS SPECIFIED ABOVE. THE ENGINEER MAY INVOKE THE PROVISIONS OF ITEM 105.15 AND ANY SUBSEQUENT BILLINGS TO THE STATE FROM THE CITY OF WILLOWICK FOR POLICE SERVICES AND MAINTENANCE BY CITY FORCES SHALL BE DEDUCTED FROM MONIES DUE OR TO BECOME DUE THE CONTRACTOR IN ACCORDANCE WITH PROVISIONS OF ITEM 105.15.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE TRAFFIC SIGNAL COMPONENTS REQUIRED TO BE HANDLED DURING THE CONSTRUCTION OF AND/OR REVISIONS TO THE SIGNAL SYSTEMS.

THIS ITEM SHALL BE CONSIDERED A SUBSIDIARY WORK ITEM AND THE COST SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS ITEMS MAKING UP THE SIGNAL SYSTEM.

TRAFFIC CONTROL STANDARD CONSTRUCTION DRAWINGS

REFERENCES TO SUPPLEMENTAL SPECIFICATIONS 843, 857, 858, 957, 958 AND 959 ON THE TRAFFIC CONTROL STANDARD CONSTRUCTION DRAWINGS IN THESE PLANS SHALL BE CONSIDERED TO READ AS RESPECTIVE REFERENCES TO ITEMS 630, 631, 632, 730, 731, 732, 861 AND 961.

REMOVAL ITEM CHART

DESCRIPTION OF ITEM TO BE REMOVED BY CONTRACTOR *	ITEM TO BE STORED FOR CITY OF WILLOWICK	ITEM TO BE DISPOSED OF BY CONTRACTOR
ALL CONTROLLERS W/CABINETS & ACCESSORIES	✓	
ALL SIGNAL HEADS	✓	
MESSENGER WIRE & SIGNAL CABLE		✓
MESSENGER WIRE & INTERCONNECT WIRE		✓
PEDESTRIAN SIGNAL HEADS AND PUSHBUTTONS	✓	

\* ALL EXISTING TRAFFIC SIGNAL POLES ARE TO REMAIN UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

TRAFF-PRO CONSULTANTS INC. WILLOUGHBY, OHIO						
STATE OF OHIO DEPARTMENT OF TRANSPORTATION						
GENERAL NOTES						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEW DATE	REVISED	