

CONGESTION MANAGEMENT PROGRAM (DETECTION UPGRADE SET #3)					
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL PRICE
105-01	CONSTRUCTION STAKES, LINES AND GRADES	L.S.	1		
① 201-01	CLEARING AND GRUBBING	L.S.	1		
② ③ 209-05	SEDIMENT REMOVAL	C.Y.	10		
209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH	36		
701-01.01	CONCRETE SIDEWALK (4")	S.F.	300		
712-01	TRAFFIC CONTROL	L.S.	1		
④ 713-13.03	FLAT SHEET ALUMINUM SIGNS (0.100" THICK)	S.F.	27		
716-02.01	PLASTIC PAVEMENT MARKING (LINE)	L.M.	0.19		
716-02.05	PLASTIC PAVEMENT MARKING (STOPLINE)	L.F.	170		
716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	1		
716-03.02	PLASTIC WORD PAVEMENT MARKING (RXR)	EACH	5		
717-01	MOBILIZATION	L.S.	1		
725-03.28	RAILROAD FLAGMAN	DAY	20	\$1,000	\$20,000.00
725-03.91	CURB MOUNTED CABLE MARKER	EACH	100		
⑬ 730-01.02	REMOVAL OF SIGNAL EQUIPMENT	EACH	1		
730-03.21	INSTALL PULL BOX (TYPE B)	EACH	34		
730-05.01	ELECTRICAL SERVICE CONNECTION (FROM EXISTING CABINET TO NEW CABINET LOCATION)	EACH	1		
730-08.02	SIGNAL CABLE - 5 CONDUCTOR	L.F.	180		
730-08.03	SIGNAL CABLE - 7 CONDUCTOR	L.F.	400		
⑤ 730-11.10	RISER ASSEMBLY (3" WEATHERHEAD)	EACH	1		
730-11.11	RISER ASSEMBLY (2")	EACH	6		
730-11.12	RISER ASSEMBLY (3")	EACH	9		
730-12.02	CONDUIT 2" DIAMETER (PVC)	L.F.	1730		
730-12.03	CONDUIT 3" DIAMETER (PVC)	L.F.	320		
730-12.13	CONDUIT 2" DIAMETER (JACK AND BORE)	L.F.	50		
730-12.14	CONDUIT 3" DIAMETER (JACK AND BORE)	L.F.	490		
⑪ ⑥ 730-13.02	VEHICLE DETECTOR (VIDEO)	EACH	7		
⑦ 730-13.03	VEHICLE DETECTOR (4-CHANNEL, RACK-MOUNT)	EACH	6		
⑪ ⑧ 730-13.06	VEHICLE DETECTOR (OPTICALLY ACTIVATED PRIORITY CONTROL)	EACH	10		
730-14.01	SHIELDED DETECTOR CABLE	L.F.	2640		
730-14.02	SAW SLOT	L.F.	425		
730-14.03	LOOP WIRE	L.F.	1240		
⑨ 730-15.13	MODIFY CABINET (BASE-MOUNT ENTRANCE)	EACH	10		
⑩ 730-15.32	CABINET (EIGHT PHASE BASE MOUNTED)	EACH	1		
730-16.02	EIGHT PHASE ACTUATED CONTROLLER	EACH	1		
801-03	WATER (SEEDING & SODDING)	M.G.	2		
② 803-01	SODDING (NEW SOD)	S.Y.	130		
⑫ 920-13.04	VIDEO DETECTION REMOTE MANAGEMENT CARD	EACH	3		
920-16.07	RAILROAD PROTECTIVE INSURANCE	EACH	1	\$10,000	\$10,000.00
				TOTAL BID	

FOOTNOTES

- ① FOR TREE TRIMMING AS DIRECTED BY THE ENGINEER
- ② TO BE USED AS DIRECTED BY THE ENGINEER.
- ③ SEE SUBSECTION 209.07 OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.
- ④ TO INCLUDE ALL HARDWARE, MATERIALS, AND SUPPORTS TO INSTALL SIGN. TO BE THREE (3) TOTAL SIGNS. SEE SHEETS 16, 17 AND 18 FOR SIGN DETAILS AND PLACEMENT.

2 - "GRADE CROSSING ADVANCE WARNING" W10-1
1 - "GRADE CROSSING AND INTERSECTION ADVANCE WARNING" W10-2
- ⑤ INSTALL WEATHERHEAD ON EXISTING RISER. SEE SHEET 7 NOTES.
- ⑥ TO BE ITERIS VANTAGE SYSTEM OR APPROVED EQUIVALENT. INCLUDES DETECTION CAMERAS, PROCESSOR UNIT, CARD RACK, VIDEO REMOTE MANAGEMENT CARD WITH ETHERNET INTERFACE, POWER SUPPLY UNIT, SURGE PROTECTION EQUIPMENT (AN EDCO HSP-121BT1RU SERIES SURGE PROTECTION), 10" COLOR LCD MONITOR, MOUSE AND ALL CABLING, CONNECTIONS AND HARDWARE TO COMPLETE THE INSTALLATION OF A FULLY FUNCTIONAL VIDEO DETECTION SYSTEM. (TO BE VANTAGE VECTOR SYSTEM FOR MAST ARM MOUNTED CAMERAS WITH ADVANCE DETECTION. SEE TABULATED QUANTITIES SHEET FOR MOUNT TYPE.)
- ⑦ INSTALL ONE (1) DETECTOR CARD PER INTERSECTION APPROACH WHERE ADVANCE DETECTION LOOPS ARE TO BE REPAIRED OR REPLACED. SEE INTERSECTION LAYOUT SHEETS.
- ⑧ TO BE GTT OPTICOM SYSTEM OR APPROVED EQUIVALENT. INCLUDES OPTICAL DETECTORS, CONFIRMATION LAMPS (PAR 90), POLE-MOUNTED BEACONS, FOUR-CHANNEL PHASE SELECTOR, CARD RACK (OPTICOM 760) AND ALL OTHER CABLING, CONNECTIONS AND HARDWARE TO COMPLETE THE INSTALLATION OF A FULLY-FUNCTIONAL PREEMPTION SYSTEM, INCLUDING FIELD FINE-TUNING.
- ⑨ SEE INTERSECTION LAYOUT SHEET FOR CABINET MODIFICATION DETAILS. INCLUDES MODIFICATIONS EQUIPMENT AND HARDWARE NECESSARY FOR CONDUIT ENTRY INTO CABINET.
- ⑩ THE TRAFFIC SIGNAL CONTROLLER SHALL BE AN EAGLE EPAC M52 KEYBOARD UNIT OR APPROVED EQUIVALENT WITH NTCIP COMPLIANT SOFTWARE AND SEPAC, AND BUILT-IN STRETCH AND DELAY FEATURES FOR EACH PHASE. THE TRAFFIC CONTROLLER INSTALLATION ALONG WITH ALL AUXILIARY EQUIPMENT TO BE INSTALLED IN THE CABINET SHALL BE MANUFACTURED, SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE LATEST CITY OF MEMPHIS TRAFFIC SIGNAL CONTROLLER AND CABINET SPECIFICATIONS. THE INSTALLATION SHALL HAVE A 12-CHANNEL MALFUNCTION MONITOR UNIT INSTALLED AS MODEL EDI SSM12LEIP.
- ⑪ SEE TYPICAL COUNT ZONE DETAIL FOR ZONE LOCATION SETUP.
- ⑫ QUANTITY IS IN ADDITION TO THE VIDEO DETECTION REMOTE MANAGEMENT CARDS REQUIRED IN ITEM NO. 730-13.02.