

CONGESTION MANAGEMENT PROGRAM (DETECTION UPGRADE SET #2)					
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	30		
⑪ 701-01.01	CONCRETE SIDEWALK 4"	S.F.	250		
713-13.03	FLAT SHEET ALUMINUM SIGNS (0.100" THICK)	S.F.	12		
712-01	TRAFFIC CONTROL	L.S.	1		
717-01	MOBILIZATION	L.S.	1		
⑫ 730-01.02	REMOVAL OF SIGNAL EQUIPMENT	EACH	1		
730-01.10	OVERHEAD UTILITY RELOCATION (UTILITY FEE)	L.S.	1	\$ 10,000.00	\$ 10,000.00
⑩ 730-03.11	INSTALL SPLICE BOX (POLE-MOUNTED)	EACH	2		
730-03.21	INSTALL PULL BOX (TYPE B)	EACH	4		
730-05.01	ELECTRICAL SERVICE CONNECTION (FROM EXISTING CABINET TO NEW CABINET LOCATION)	EACH	4		
730-11.12	RISER ASSEMBLY (3")	EACH	3		
730-12.02	CONDUIT 2" DIAMETER (PVC)	L.F.	740		
730-12.03	CONDUIT 3" DIAMETER (PVC)	L.F.	310		
730-12.42	CURB MOUNTED CABLE MARKER	EACH	50		
⑨ ④ 730-13.02	VEHICLE DETECTOR (VIDEO)	EACH	13		
⑤ 730-13.03	VEHICLE DETECTOR (4-CHANNEL, RACK-MOUNT)	EACH	2		
⑥ 730-13.06	VEHICLE DETECTOR (OPTICALLY ACTIVATED PRIORITY CONTROL)	EACH	12		
730-14.01	SHIELDED DETECTOR CABLE	L.F.	740		
730-14.02	SAW SLOT	L.F.	102		
730-14.03	LOOP WIRE	L.F.	300		
⑦ 730-15.11	MODIFY CABINET (POLE-MOUNT ENTRANCE)	EACH	3		
730-15.13	MODIFY CABINET (BASE-MOUNT ENTRANCE)	EACH	7		
⑧ 730-15.32	CABINET (EIGHT PHASE BASE MOUNTED)	EACH	4		
730-16.02	EIGHT PHASE ACTUATED CONTROLLER	EACH	4		
801-03	WATER (SEEDING & SODDING)	M.G.	1		
② 803-01	SODDING (NEW SOD)	S.Y.	135		
				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 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.
  - ⑤ INSTALL ONE (1) DETECTOR CARD PER INTERSECTION APPROACH WHERE ADVANCE DETECTION LOOPS ARE TO BE REPAIRED OR REPLACED. SEE INTERSECTION LAYOUT SHEETS.
  - ⑥ 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 CABLING, CONNECTIONS AND HARDWARE TO COMPLETE THE INSTALLATION OF A FULLY-FUNCTIONAL PREEMPTION SYSTEM, INCLUDING FIELD FINE-TUNING.
  - ⑦ SEE INTERSECTION LAYOUT SHEETS AND VIDEO DETECTION DETAILS SHEET FOR CABINET MODIFICATION DETAILS.
  - ⑧ 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.
  - ⑨ SEE TYPICAL COUNT ZONE DETAIL FOR ZONE LOCATION SETUP.
  - ⑩ FOR JUNCTION BOX TO BE INSTALLED AT TOP OF POLE.
  - ⑪ TO INCLUDE ALL HARDWARE, MATERIALS, AND SUPPORTS TO INSTALL SIGN. TO BE ONE (1) TOTAL SIGN. SEE SHEET 6 FOR SIGN DETAILS AND PLACEMENT.
- 1 - "ADVANCE INTERSECTION LANE CONTROL" R3-8B
- ⑫ ITEM TO INCLUDE THE REMOVAL OF ALL TRAFFIC SIGNAL EQUIPMENT AND ASSOCIATED WIRING AS REQUIRED IN THE PLANS.