

2012 TRAFFIC SIGNAL MAINTENANCE CONTRACT, SECTION 12-00000-01-GM, BID TABULATION

ITEM NO.	DESCRIPTION	EST. QNTY.	UNIT	ENGINEER'S ESTIMATE		MEADE ELECTRIC	
				UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
				PRICE PER EQUIVALENT LOCATION UNIT PER MONTH: <u>\$300.00</u>		PRICE PER EQUIVALENT LOCATION UNIT PER MONTH: <u>\$257.00</u>	
				MULTIPLIED BY ELU's = <u>\$66,000.00</u> /MO.		MULTIPLIED BY ELU's = <u>\$56,540.00</u> /MO.	
				FOR ROUTINE MAINTENANCE (A AND B PAY ITEMS) \$66,000.00 X 12 MONTHS = <u>\$792,000.00</u> FOR ROUTINE MAINTENANCE FOR ENTIRE YEAR		FOR ROUTINE MAINTENANCE (A AND B PAY ITEMS) \$56,540.00 X 12 MONTHS = <u>\$678,480.00</u> FOR ROUTINE MAINTENANCE FOR ENTIRE YEAR	
ITEM	DESCRIPTION	EQUIVALENT LOCATION UNITS		ITEM	EXTENSION DOLLARS PER MONTH	ITEM	EXTENSION DOLLARS PER MONTH
A-1	TRAFFIC SIGNAL LOCATION	150		A-1	\$45,000.00	A-1	\$38,550.00
A-2	TEMPORARY TRAFFIC SIGNAL LOCATION	6		A-2	\$1,800.00	A-2	\$1,542.00
A-3	FLASHING BEACON, OVERHEAD MOUNT, ONE OR MORE FACES	2		A-3	\$600.00	A-3	\$514.00
A-4	FLASHING BEACON, LOW MOUNT, ONE OR MORE FACES	5		A-4	\$1,500.00	A-4	\$1,285.00
A-5	VEHICLE COUNTING STATION	0.75		A-5	\$225.00	A-5	\$192.75
A-6	VIDEO COMMUNICATIONS CABINET, GIGABIT ETHERNET	9		A-6	\$2,700.00	A-6	\$2,313.00
A-7	LAYER II DATA LINK SWITCH	9		A-7	\$2,700.00	A-7	\$2,313.00
A-8	LAYER III NETWORK SWITCH	4		A-8	\$1,200.00	A-8	\$1,028.00
A-9	HIGHWAY ADVISORY RADIO (HAR)	2.5		A-9	\$750.00	A-9	\$642.50
A10	REMOTE-CONTROLLED VIDEO SYSTEM	1.75		A10	\$525.00	A10	\$449.75
B-1	STREET LIGHTING LOCATION	30		B-1	\$9,000.00	B-1	\$7,710.00
		TOTAL ELU's					
		220					

AB-1 HOURLY RATE FOR EXTRA WORK

100 HR \$70.00 \$7,000.00

\$97.00 \$9,700.00

SUBTOTAL FOR AB ITEMS: \$ 7,000.00

\$ 9,700.00

AC-1 BUDGETARY ALLOWANCE FOR EXTRA WORK

SUBTOTAL FOR AC ITEMS: \$ 100,000.00

\$ 100,000.00

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EQUIPMENT

AU-1	SIGNAL HEAD, L.E.D.1-FACE, 1-SECTION, MOUNTING AS SPECIFIED	4	EA	<u>\$250.00</u>	<u>\$1,000.00</u>	<u>\$125.00</u>	<u>\$500.00</u>
AU-2	SIGNAL HEAD, L.E.D.1-FACE, 3-SECTION, MOUNTING AS SPECIFIED	4	EA	<u>\$750.00</u>	<u>\$3,000.00</u>	<u>\$600.00</u>	<u>\$2,400.00</u>
AU-3	SIGNAL HEAD, L.E.D.1-FACE, 4-SECTION, MOUNTING AS SPECIFIED	4	EA	<u>\$850.00</u>	<u>\$3,400.00</u>	<u>\$750.00</u>	<u>\$3,000.00</u>
AU-4	SIGNAL HEAD, L.E.D.1-FACE, 5-SECTION, MOUNTING AS SPECIFIED	4	EA	<u>\$1,100.00</u>	<u>\$4,400.00</u>	<u>\$900.00</u>	<u>\$3,600.00</u>
AU-5	PEDESTRIAN SIGNAL HEAD, L.E.D., MOUNTING AS SPECIFIED	8	EA	<u>\$500.00</u>	<u>\$4,000.00</u>	<u>\$375.00</u>	<u>\$3,000.00</u>
AU-6	PEDESTRIAN SIGNAL HEAD, L.E.D., COUNTDOWN, MOUNTING AS SPECIFIED	8	EA	<u>\$550.00</u>	<u>\$4,400.00</u>	<u>\$500.00</u>	<u>\$4,000.00</u>
AU-7	TRAFFIC SIGNAL BACKPLATE	8	EA	<u>\$100.00</u>	<u>\$800.00</u>	<u>\$80.00</u>	<u>\$640.00</u>
AU-8	EMERGENCY VEHICLE PREEMPTION SYSTEM	10	EA	<u>\$5,000.00</u>	<u>\$50,000.00</u>	<u>\$1,000.00</u>	<u>\$10,000.00</u>
AU-9	FULL ACTUATED CONTROLLER, IN TYPE IV CABINET, NEMA-TS2	1	EA	<u>\$10,000.00</u>	<u>\$10,000.00</u>	<u>\$12,000.00</u>	<u>\$12,000.00</u>
AU-10	INSTALL EXISTING TRAFFIC SIGNAL CABINET	2	EA	<u>\$750.00</u>	<u>\$1,500.00</u>	<u>\$25.00</u>	<u>\$50.00</u>
AU-11	INSTALL EXISTING TRAFFIC SIGNAL CONTROLLER	2	EA	<u>\$150.00</u>	<u>\$300.00</u>	<u>\$25.00</u>	<u>\$50.00</u>
AU-12	FULL ACTUATED CONTROLLER	2	EA	<u>\$3,000.00</u>	<u>\$6,000.00</u>	<u>\$3,000.00</u>	<u>\$6,000.00</u>
AU-13	INSTALL UPDATED PROM SET AT EXISTING LOCAL OR MASTER CONTROLLER	4	EA	<u>\$250.00</u>	<u>\$1,000.00</u>	<u>\$400.00</u>	<u>\$1,600.00</u>
AU-14	UPGRADE EXISTING LOCAL CONTROLLER SOFTWARE TO NTCIP	4	EA	<u>\$200.00</u>	<u>\$800.00</u>	<u>\$400.00</u>	<u>\$1,600.00</u>
AU-15	DETECTOR LOOP	500	LIN FT	<u>\$25.00</u>	<u>\$12,500.00</u>	<u>\$20.00</u>	<u>\$10,000.00</u>
AU-16	PEDESTRIAN PUSH BUTTON, LED	8	EA	<u>\$400.00</u>	<u>\$3,200.00</u>	<u>\$200.00</u>	<u>\$1,600.00</u>
AU-17	GALVANIZED STEEL CONDUIT IN GROUND, 2 INCH	100	LIN FT	<u>\$20.00</u>	<u>\$2,000.00</u>	<u>\$10.00</u>	<u>\$1,000.00</u>
AU-18	ELECTRIC CABLE IN CONDUIT, NO. 14 1/C	100	LIN FT	<u>\$0.50</u>	<u>\$50.00</u>	<u>\$0.60</u>	<u>\$60.00</u>
AU-19	ELECTRIC CABLE IN CONDUIT, NO. 14 2/C	100	LIN FT	<u>\$0.75</u>	<u>\$75.00</u>	<u>\$2.00</u>	<u>\$200.00</u>
AU-20	ELECTRIC CABLE IN CONDUIT, NO. 14 3/C	100	LIN FT	<u>\$0.85</u>	<u>\$85.00</u>	<u>\$2.50</u>	<u>\$250.00</u>
AU-21	ELECTRIC CABLE IN CONDUIT, NO. 14 5/C	100	LIN FT	<u>\$1.00</u>	<u>\$100.00</u>	<u>\$3.00</u>	<u>\$300.00</u>
AU-22	ELECTRIC CABLE IN CONDUIT, NO. 14 7/C	100	LIN FT	<u>\$1.25</u>	<u>\$125.00</u>	<u>\$3.50</u>	<u>\$350.00</u>
AU-23	ELECTRIC CABLE IN CONDUIT, NO. 14 2/C, TWISTED, SHIELDED	100	LIN FT	<u>\$1.50</u>	<u>\$150.00</u>	<u>\$3.00</u>	<u>\$300.00</u>
AU-24	ELECTRIC CABLE IN CONDUIT, NO. 6 2/C	100	LIN FT	<u>\$2.25</u>	<u>\$225.00</u>	<u>\$3.00</u>	<u>\$300.00</u>
AU-25	ELECTRIC CABLE IN CONDUIT, NO. 10 2/C	100	LIN FT	<u>\$2.00</u>	<u>\$200.00</u>	<u>\$1.00</u>	<u>\$100.00</u>
AU-26	ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED	100	LIN FT	<u>\$1.70</u>	<u>\$170.00</u>	<u>\$0.75</u>	<u>\$75.00</u>

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AU-27 ELECTRIC CABLE IN CONDUIT, COAXIAL	100	LIN FT	<u>\$1.30</u>	<u>\$130.00</u>	<u>\$2.50</u>	<u>\$250.00</u>
AU-28 ELECTRIC CABLE IN CONDUIT, NO. 18 3/C	100	LIN FT	<u>\$2.00</u>	<u>\$200.00</u>	<u>\$0.01</u>	<u>\$1.00</u>
AU-29 ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 16, 5½ PAIR	100	LIN FT	<u>\$1.00</u>	<u>\$100.00</u>	<u>\$0.25</u>	<u>\$25.00</u>
AU-30 FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 24 FIBER (12 MULTIMODE AND 12 SINGLEMODE)	100	LIN FT	<u>\$3.75</u>	<u>\$375.00</u>	<u>\$6.00</u>	<u>\$600.00</u>
AU-31 FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 36 FIBER (12 MULTIMODE AND 24 SINGLEMODE)	100	LIN FT	<u>\$4.00</u>	<u>\$400.00</u>	<u>\$6.00</u>	<u>\$600.00</u>
AU-32 FIBER OPTIC CABLE IN CONDUIT, 24 SINGLEMODE	500	LIN FT	<u>\$4.25</u>	<u>\$2,125.00</u>	<u>\$5.00</u>	<u>\$2,500.00</u>
AU-33 TRANSCEIVER, FIBER OPTIC	1	EA	<u>\$1,600.00</u>	<u>\$1,600.00</u>	<u>\$1,500.00</u>	<u>\$1,500.00</u>
AU-34 SERVICE INSTALLATION, POLE MOUNT	1	EA	<u>\$2,500.00</u>	<u>\$2,500.00</u>	<u>\$1,000.00</u>	<u>\$1,000.00</u>
AU-35 SERVICE INSTALLATION, GROUND MOUNT	1	EA	<u>\$2,500.00</u>	<u>\$2,500.00</u>	<u>\$1,250.00</u>	<u>\$1,250.00</u>
AU-36 CONCRETE FOUNDATION, TYPE A	30	LIN FT	<u>\$75.00</u>	<u>\$2,250.00</u>	<u>\$50.00</u>	<u>\$1,500.00</u>
AU-37 CONCRETE HANDHOLE	2	EA	<u>\$900.00</u>	<u>\$1,800.00</u>	<u>\$100.00</u>	<u>\$200.00</u>
AU-38 CONCRETE HEAVY DUTY HANDHOLE	2	EA	<u>\$1,200.00</u>	<u>\$2,400.00</u>	<u>\$200.00</u>	<u>\$400.00</u>
AU-39 REBUILD EXISTING HANDHOLE	1	EA	<u>\$750.00</u>	<u>\$750.00</u>	<u>\$100.00</u>	<u>\$100.00</u>
AU-40 DRILL EXISTING HANDHOLE	2	EA	<u>\$400.00</u>	<u>\$800.00</u>	<u>\$300.00</u>	<u>\$600.00</u>
AU-41 ROTATE SIGNAL PHASING AT AN EXISTING TRAFFIC SIGNAL INTERSECTION	2	EA	<u>\$200.00</u>	<u>\$400.00</u>	<u>\$50.00</u>	<u>\$100.00</u>
AU-42 VIDEO DETECTION SYSTEM (COMPLETE INTERSECTION)	1	EA	<u>\$22,500.00</u>	<u>\$22,500.00</u>	<u>\$8,000.00</u>	<u>\$8,000.00</u>
AU-43 SPLICE FIBER OPTIC CABLE IN CABINET	50	EA	<u>\$50.00</u>	<u>\$2,500.00</u>	<u>\$40.00</u>	<u>\$2,000.00</u>
AU-44 TERMINATE FIBER IN CABINET	50	EA	<u>\$50.00</u>	<u>\$2,500.00</u>	<u>\$40.00</u>	<u>\$2,000.00</u>
AU-45 REMOTE-CONTROLLED VIDEO SYSTEM	1	EA	<u>\$7,500.00</u>	<u>\$7,500.00</u>	<u>\$2,000.00</u>	<u>\$2,000.00</u>
AU-46 LED INTERNALLY ILLUMINATED STREET NAME SIGN	4	EA	<u>\$3,000.00</u>	<u>\$12,000.00</u>	<u>\$2,800.00</u>	<u>\$11,200.00</u>
AU-47 UNINTERRUPTIBLE POWER SUPPLY (UPS)	2	EA	<u>\$7,000.00</u>	<u>\$14,000.00</u>	<u>\$7,000.00</u>	<u>\$14,000.00</u>
AU-48 RELAMP EXISTING TRAFFIC SIGNAL WITH LED MODULES	15	EA	<u>\$10,000.00</u>	<u>\$150,000.00</u>	<u>\$5,500.00</u>	<u>\$82,500.00</u>
AU-49 OUTDOOR RATED NETWORK CABLE	500	LIN FT	<u>\$2.50</u>	<u>\$1,250.00</u>	<u>\$1.50</u>	<u>\$750.00</u>
AU-50 TRAFFIC SIGNAL GROUNDING AND ELECTRIC SERVICE UPGRADE	10	EA	<u>\$3,000.00</u>	<u>\$30,000.00</u>	<u>\$3,000.00</u>	<u>\$30,000.00</u>

SUBTOTAL FOR AU ITEMS: \$ 370,060.00

\$ 226,051.00

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TEMPORARY TRAFFIC SIGNAL INSTALLATION

AV-1	INSTALL TEMPORARY TRAFFIC SIGNAL, FOUR APPROACHES OR LESS	1	EA	<u>\$25,000.00</u>	<u>\$25,000.00</u>	<u>\$500.00</u>	<u>\$500.00</u>
AV-2	REMOVE EXISTING TEMPORARY TRAFFIC SIGNAL, FOUR APPROACHES OR LESS	1	EA	<u>\$2,000.00</u>	<u>\$2,000.00</u>	<u>\$100.00</u>	<u>\$100.00</u>
SUBTOTAL FOR AV ITEMS:				\$	27,000.00	\$	600.00

TOTAL CONTRACT PRICE

ROUTINE	
MAINTENANCE:	<u>\$792,000.00</u>
AB SUBTOTAL:	<u>\$ 7,000.00</u>
BUDGET ALLOWANCE, ITEM AC:	<u>\$ 100,000.00</u>
AU SUBTOTAL:	<u>\$ 370,060.00</u>
AV SUBTOTAL:	<u>\$ 27,000.00</u>

TOTAL CONTRACT PRICE

(SUM OF 5 LINES ABOVE)

\$1,296,060.00

TOTAL CONTRACT PRICE

ROUTINE	
MAINTENANCE	<u>\$ 678,480.00</u>
AB SUBTOTAL	<u>\$ 9,700.00</u>
ITEM AC:	<u>\$ 100,000.00</u>
AU SUBTOTAL	<u>\$ 226,051.00</u>
AV SUBTOTAL	<u>\$ 600.00</u>

TOTAL CONTRACT PRICE

(SUM OF 5 LINES ABOVE)

\$ 1,014,831.00