STATE	JOB NO.	SHEET NO.
MO	PROJECT NO.	ROUTE
DIST NO	COUNTY	

SPAN WIRE POLES

POST NUMBER	WOOD CLASS II	WOOD CLASS IV	CONCRETE* EMBEDMENT	STEEL (A10 BASE REQUIRED)
TOTAL				

SPAN WIRE CABLE SPANS

SPAN NUMBER	FROM POST	TO POST	SINGLE MESSENGER ASSEMBLY (0.5 meters)	DOUBLE MESSENGER ASSEMBLY (0.5 meters)
TOTAL				

POST NUMBER	PULL BOX NUMBER	LOCATION: APPROACH	LOCATION: STATION	LOCATION: OFFSET	BASES A 5	BASES A 8	BASES A MOD	BASES B 5	BASES B 8	BASES C 10	CONCRETE (m³)	PULL BOX PREFORMED CLASS 1	PREFORMED CLASS 2	PREFORMED CLASS 3	CONCRETE STANDARD	CONCRETE DOUBLE	DRAIN TYPE* I	DRAIN TYPE* II A	DRAIN TYPE* II B	DRAIN TYPE* II C	POST TOP MOUNT	POST LENGTH (meters) 8.2	POST LENGTH (meters) 9.0	TYPE C & CL ARM LENGTH A	ARM LENGTH A	ARM LENGTH A	ARM LENGTH A	ARM LENGTH A	ARM LENGTH A	SIGNAL SPACING B	SIGNAL SPACING C	SIGNAL SPACING D	SIGN SPACING B	SIGN SPACING C	SIGN SPACING D	TYPE B & BL ARM LENGTH E	ARM LENGTH K	ARM LENGTH E	ARM LENGTH K	ARM LENGTH E	ARM LENGTH K	LEFT ARM E SIGNAL F	LEFT ARM E SIGNAL G	LEFT ARM E SIGNAL H	LEFT ARM E SIGN F	LEFT ARM E SIGN G	LEFT ARM E SIGN H	RIGHT ARM K SIGNAL L	RIGHT ARM K SIGNAL M	RIGHT ARM K SIGNAL N	RIGHT ARM K SIGN L	RIGHT ARM K SIGN M	RIGHT ARM K SIGN N	INCLUDED ANGLE	LUMINAIRE* BRACKET ARM (METERS) 1.2	1.8	2.4	3.0	4.5	6.0	COMMISSION FURNISHED SIGNS: CODE SIGN NUMBER FROM STANDARD PLAN M902.80
			CONTROLLER	(AS REQ'D)							1.53																																																				

STATE	JOB NO.	SHEET NO.
MO		
DIST NO.	PROJECT NO.	ROUTE
	COUNTY	

CONDUIT																			
FROM	TO	CTR TO CTR DISTANCE (mm)	TRENCH							MEDIAN			PUSHED					ON BRIDGE		REMARKS
			32 mm	40 mm	50 mm	65 mm	75 mm	90 mm	100 mm	32 mm			50 mm	65 mm	75 mm	90 mm	100 mm			
TOTALS																				

CABLE																	
FROM	TO	CTR TO CTR DISTANCE (mm)	POWER		CONTROL				CLOSED LOOP INTERCONNECT	POLE & BRACKET	DETECTOR		REMARKS
			1c 10 mm^2		2c 4 mm^2	5c 4 mm^2	7c 4 mm^2	12c 4 mm^2	3 PAIR 1.5 mm^2	1c 6 mm^2	1c 2.5 mm^2 IN DUCT	LEAD -IN CABLE	
TOTALS													

INTERSECTION

M-D-37B

Quanity Sheet, M-D-37B

Figure 8-02.9

STATE	JOB NO.	SHEET NO.
MO		
DIST NO.	PROJECT NO.	ROUTE
	COUNTY	

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING				SERVICE POLE	
					CONTROLLER					
APPROACH	STATION	OFFSET	DRAWING M902.15	DRAWING	SIDE OF CONTROLLER / LIGHTING BREAKER	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	POWER SUPPLY / MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
			Type		Amps	Amps	Amps	Amps	CL. m	
			Type		Amps	Amps	Amps	Amps	Cl m	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		SOLID STATE PRE-TIMED TYPE			ON-OFF SWITCH * TYPE		COORDINATION INTERFACE *					TONE UNIT *		TIME CLOCK *	170 CABINET TYPE*		170 SOFTWARE*	
												7C HARDWIRE OR TONE (1)		TIME BASE	CLOSED LOOP								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	S-M	S-S	S-N	I	II	MASTER	LOCAL		NEMA	170	TRANS-MITTER (MASTER)	RECEIVER (LOCAL)		332A	336S	BITRAN	WAPITI

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE					
		PUSH BUTTON	INDUCTION LOOP (2)			MAGNETOMETER (2)	
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	STANDARD	DELAY/ EXTEND *
	TOTAL						

*ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

(1) MHTD "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE OR TONE INTERCONNECT.

(2) IF 2-CHANNEL DETECTORS ARE USED, PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1								
	2								

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (2)

170 OUTPUT FILE ASSIGNMENTS

FR1							MONITOR
FR2							
FR3							
FR4							

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12

170 INPUT FILE ASSIGNMENTS

	CHANNEL	1	2	3	4	5	6	7	8	9	10	11	12	13	14
"I"	U														
	L														
"J"	U														
	L														

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (2)

170 AUXILIARY OUTPUT FILE

FR5							X
FR6							

INTERSECTION

M-D-37C

Quantity Sheets, M-D-37C

Figure 8-02.9

STATE	JOB NO.	SHEET NO.
MO		
DIST NO.	PROJECT NO.	ROUTE
	COUNTY	

SPAN WIRE POLES				
POST NUMBER	WOOD			STEEL (A)10 BASE REQUIRED)
	CLASS II	CLASS IV	CONCRETE* EMBEDMENT	
TOTAL				

SPAN WIRE CABLE SPANS				
SPAN NUMBER	FROM POST	TO POST	SINGLE MESSENGER ASSEMBLY (LIN. FT.)	DOUBLE MESSENGER ASSEMBLY (LIN. FT.)
		TOTAL		

| POST NUMBER | PULL BOX NUMBER | LOCATION | | | BASES | | | | | | | | | PULL BOX | | | | | | | | POST | | | | | | | | |

STATE	JOB NO.	SHEET NO.
MO		
DIST NO.	PROJECT NO.	ROUTE
	COUNTY	

CONDUIT																						CABLE														
FROM	TO	CTR TO CTR DISTANCE	TRENCH							MEDIAN			PUSHED					ON BRIDGE		REMARKS	FROM	TO	CTR TO CTR DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	POLE & BRACKET	DETECTOR		REMARKS
			1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	1-14			2	2-1/2	3	3-1/2	4							1c		2c Ø 12	5c Ø 12	7c Ø 12	12c Ø 12	3 PAIR Ø 16	1c Ø 10	1c Ø 14 IN DUCT	LEAD -IN CABLE	
TOTALS																					TOTALS													

INTERSECTION

D-37B

Quanity Sheet, D-37B

Figure 8-02.9

STATE	JOB NO.	SHEET NO.
MO		
DIST NO.	PROJECT NO.	ROUTE
	COUNTY	

POWER SUPPLY											
LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING					SERVICE POLE	
					CONTROLLER						
APPROACH	STATION	OFFSET	DRAWING 902.15	DRAWING	SIDE OF CONTROLLER / LIGHTING BREAKER	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	POWER SUPPLY / MAIN BREAKER		CONTRACT FURNISH	UTILITY COMPANY
			Type		Amps	Amps	Amps	Amps	CL. Ft.		
			Type		Amps	Amps	Amps	Amps	CI Ft		

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT																						
LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		SOLID STATE PRE-TIMED TYPE			ON-OFF * SWITCH TYPE		COORDINATION INTERFACE *				TONE UNIT *		TIME * CLOCK	170 CABINET TYPE*		170 SOFTWARE*	
												7C HARDWIRE OR TONE (1)		TIME BASE	CLOSED LOOP							
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	S-M	S-S	S-N	I	II	MASTER	LOCAL		NEMA	170	TRANS-MITTER (MASTER)	RECEIVER (LOCAL)		332A	336S	BITRAN	WAPITI

DETECTOR SCHEDULE							
		TYPE					
DETECTOR NUMBER	APPROACH	PUSH BUTTON	INDUCTION LOOP (2)			MAGNETOMETER (2)	
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	STANDARD	DELAY/ EXTEND *
	TOTAL						

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

(1) MHTD "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE OR TONE INTERCONNECT.

(2) IF 2-CHANNEL DETECTORS ARE USED, PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

NEMA DETECTOR ASSIGNMENT									
		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1								
	2								

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (2)

170 OUTPUT FILE ASSIGNMENTS							
FR1							MONITOR
FR2							
FR3							
FR4							

NEMA LOAD SWITCH ASSIGNMENTS											
1	2	3	4	5	6	7	8	9	10	11	12

170 INPUT FILE ASSIGNMENTS																
	CHANNEL	1	2	3	4	5	6	7	8	9	10	11	12	13	14
"I"	U														
	L														
"J"	U														
	L														

TOTAL NUMBER OF DETECTOR CARDS (2-CHANNEL) = (2)

170 AUXILIARY OUTPUT FILE							
FR5							X
FR6							

INTERSECTION D-37C

Quantity Sheet, D-37C

Figure 8-02.9