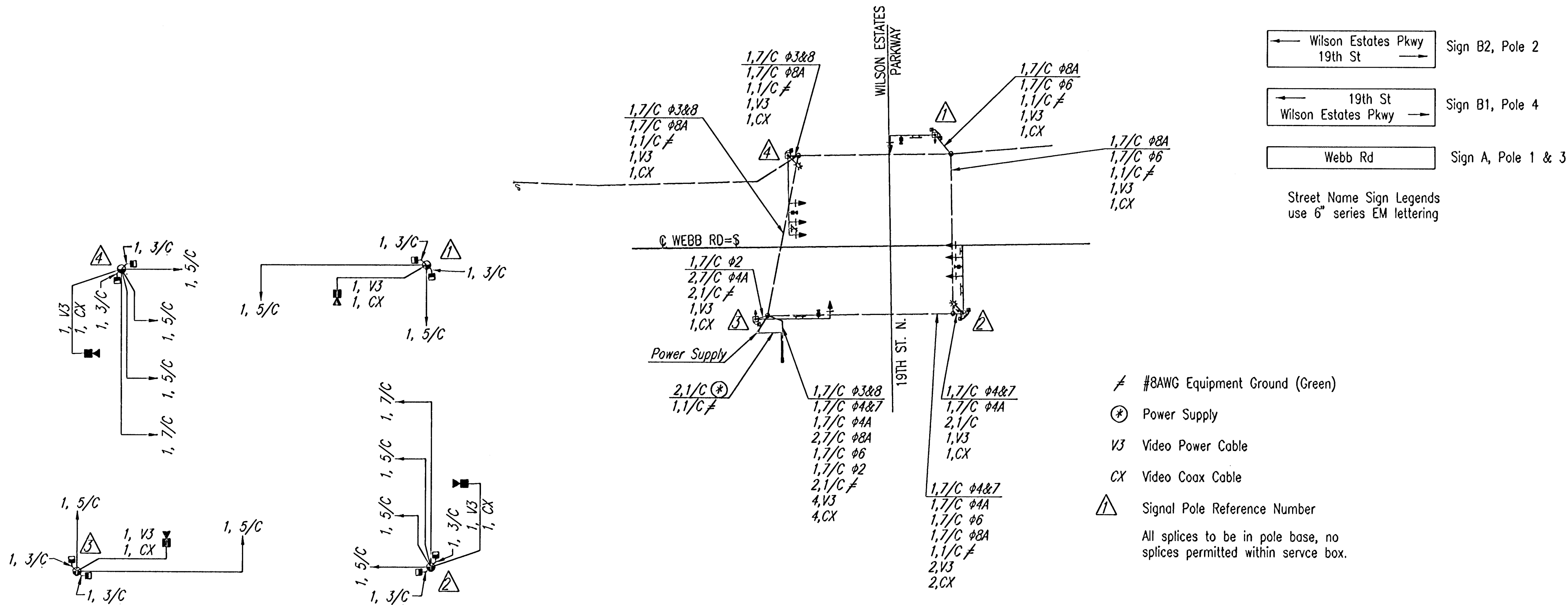


PROJECT NO.	SHEET NO.	TOTAL SHEETS
472-83677	4	7



POLE WIRING DIAGRAMS
Note: Pushbutton to be wired with 2,1/C to pole base connection

TRAFFIC SIGNAL POLE SUMMARY											
POLE NO	TYPE ①	ARM LENGTH	NO.OF SIGNALS ON ARM	BRACKET TYPE	X1	X2	X3	NO.OF SIGNALS ON POLE	BRACKET TYPE	NO.OF PUSH BUTTONS ON POLE	REMARKS
1	B	26'	1	I	26	-	-	3	II & III	2	
2	C	40'	3	I	40	32	22	3	II & III	2	
3	B	38'	1	I	38	-	-	2	II	1	
4	C	46'	3	I	46	38	28	2	II	1	

- ① A-10'Pedestal (Alum.)
B-20'Steel with Mast Arm(s)
C-35'Steel (Joint Use) with Mast Arm(s)
D-40'Steel with Mast Arm

SUMMARY OF TRAFFIC SIGNAL HEADS			
NUMBER	TYPE	SIZE	QUANTITY
3	I	12"	1
2	A	12"	2
4	A	12"	3
7	I	12"	1
6	A	12"	2
8	A	12"	3
4A	K	12"	2
8A	K	12"	2
6A	K	12"	2
TOTAL			18

SERVICE BOX SUMMARY

STATION	DIST.-SIDE
34+63	40' RT.
34+77	53' LT.
35+65	53' LT.
35+65	40' RT.

RECAPITULATION OF TRAFFIC SIGNAL QUANTITIES

ITEM	UNIT	QUANTITY
TRAFFIC SIGNAL INSTALLATION (Webb Rd. & Wilson Estates Parkway)	LUMP SUM	LUMP SUM
	1	1

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
PAD MOUNTED CONTROLLER & CABINET	EACH	1
TRAFFIC SIGNAL HEAD W/MOUNTING HARDWARE	EACH	18
TRAFFIC SIGNAL POLE STEEL (20')	EACH	2
TRAFFIC SIGNAL POLE (JOINT USE) STEEL (35')	EACH	2
CONCRETE CONTROLLER PAD	EACH	1
CONCRETE FOOTING - PEDESTAL	EACH	-
CONCRETE FOOTING - POLE	EACH	4
CONDUIT ELBOW 90° 2"	EACH	AS REQ'D
CONDUIT ELBOW 90° 3"	EACH	AS REQ'D
BACK PLATE 5" 3 SECTION	EACH	6
BACK PLATE 5" 5 SECTION	EACH	2
TERMINAL BLOCK	EACH	-
SERVICE BOX	EACH	4
JUNCTION BOX (PRE-FAB)	EACH	-
GROUND ROD & CLAMP	EACH	6
TRAFFIC SIGNAL LAMP 135 WATT	EACH	-
LED TRAFFIC SIGNAL LENS	EACH	52
ENTRANCE HEAD	EACH	4
CIRCUIT BREAKER & BOX 50 AMP.	EACH	1
SURGE ARRESTOR - A.C.SERVICE	EACH	1
SURGE ARRESTOR - DETECTOR	EACH	-
PEDESTRIAN PUSHBUTTON W/SIGN	EACH	6
6 PR. COMMUNICATION CABLE	LIN.FT.	-
DETECTOR LOOP WIRE NO. 14 AWG 1/c	LIN.FT.	-
LEAD-IN WIRE NO.6 AWG 1/c	LIN.FT.	-
MULTI-CONDUCTOR CABLE NO.14 AWG 7/c	LIN.FT.	1600
MULTI-CONDUCTOR CABLE NO.14 AWG 5/c	LIN.FT.	1150
MULTI-CONDUCTOR CABLE NO.14 AWG 3/c	LIN.FT.	75
SHEILDED DETECTOR LEAD-IN NO.14 AWG 2/c	LIN.FT.	-
CONDUIT 1"(PVC)	LIN.FT.	150
CONDUIT 1 1/2"(RGC)	LIN.FT.	100
CONDUIT 2"(PVC)	LIN.FT.	220
CONDUIT 2"(RGC)	LIN.FT.	50
CONDUIT 3"(RGC)	LIN.FT.	450
#8 AWG GROUND (GREEN)	LIN.FT.	500
STREET NAME SIGN	EACH	4
VIDEO DETECTION CAMERA (VANTAGE OZ2), MOUNTING HARDWARE	EACH	4
VIDEO DETECTION UNIT (VANTAGE EDGE MODULE)	EACH	4
VIDEO POWER CABLE #16 A.W.G. 3/C	LIN.FT.	700
VIDEO CABLE 75 OHM COAXIAL (BELDON #8281 OR APPROVED EQUAL)	LIN.FT.	700
TV MONITOR	EACH	1

-QUANTITIES FOR INFORMATION ONLY-

NOTE: The traffic signal system shall be complete and the contractor shall furnish and install all equipment and materials necessary for the satisfactory operation of electrical apparatus and for the complete operation of the traffic signal system whether specifically mentioned or not.

WILSON ESTATES PARKWAY AND WEBB ROAD

TRAFFIC SIGNAL WIRING AND QUANTITIES



Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-3003

Designed by	BER	Checked by	
Drawn by	SAW	Date	JANUARY 2003
		Job No.	02620-004