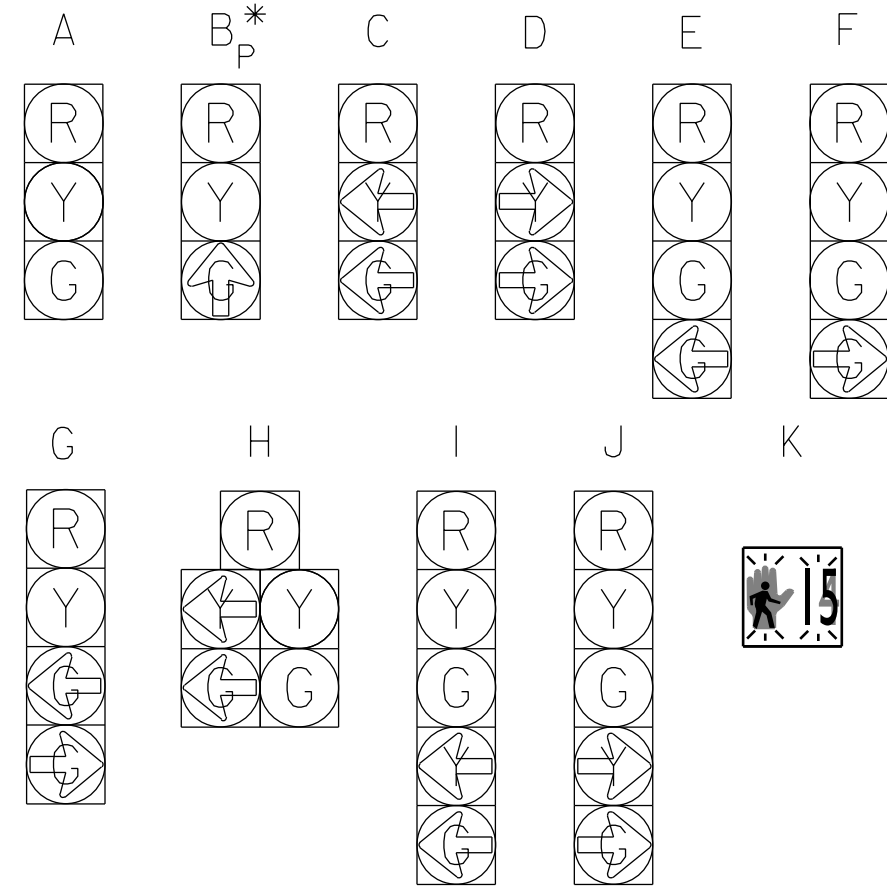


*CHART A SIGNAL SUMMARY			
SIGNAL FACE ARRANGEMENT	NO. SECTIONS (PER FACE)	SIGNAL MOUNTING TYPE	QUANTITY
A	3	MAST ARM W/BACKPLATE	6
I	5	MAST ARM W/BACKPLATE	1
K	1	SIDE-OF-POLE	2
A	3	SIDE-OF-POLE	3

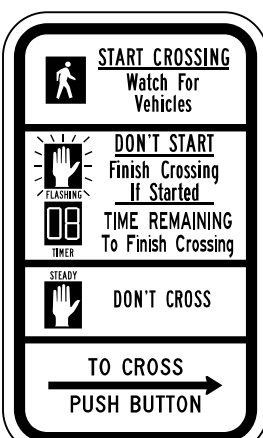


- * SUBSCRIPT "P" INDICATES PROGRAMMED SIGNALS;
 1. ALL LENSES SHALL BE L.E.D.
 2. ALL LENSES SHALL BE I2"
 3. ALL PEDESTRIAN SIGNAL HEADS SHALL BE COUNTDOWN.

CHART B TRAFFIC SIGNAL POLES							
POLE HEIGHT	SIGNAL ARM LENGTH	SIGNAL ARM MOUNTING HEIGHT**	*** NO. OF SIGNALS ON ARM	*** SIGNAL SPACING	LUMINAIRE ARM LENGTH	LUMINAIRE MOUNTING HEIGHT**	QUANT.
① 35'	46'	19'	3	19.5', 30.5', 43.5'	15'	35'	1
② 35'	42'	19'	2	28.5', 40.0'	15'	35'	1
③ 35'	54'	19'	3	34.0', 45.0', 53.0'	15'	35'	1
*④ 35'	48'	19'	3	18.0', 32.5', 44.5'	15'	35'	1

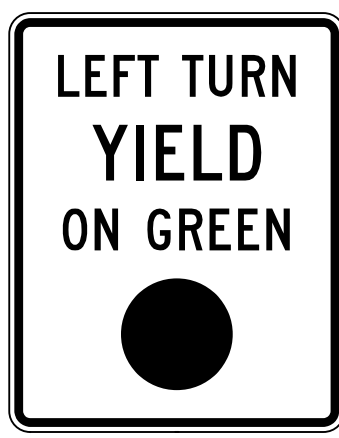
- * POLE 4 SHALL BE SIZED TO ACCOMADATE A FUTURE MAST ARM POLE (48' LONG; BY OTHERS) FOR EB TRAFFIC
 ** DIMINSIONS SHOWN ARE FROM TOP OF FOOTING TO BOTTOM OF ARM
 *** INCLUDES FUTURE SIGNAL HEADS. SEE CHART A AND SHEET 3 FOR ADDITIONAL INFORMATION.

CHART C OVERHEAD STREET NAME SIGNS SEE DETAIL THIS SHEET FOR MORE INFORMATION			
SIGN	LEGEND	LENGTH	QUANTITY
1	Maize RD 3400	96"	1
2	Silver Fox St 10200 W	132"	2



R10-3E

(ON POLARA PUSH BUTTON)



R10-12



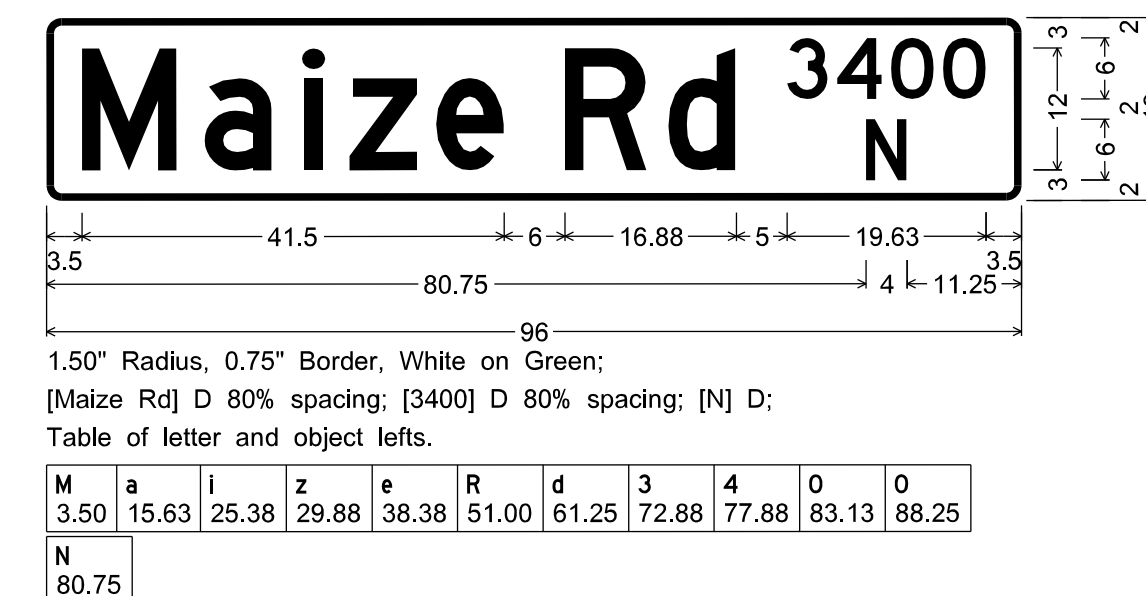
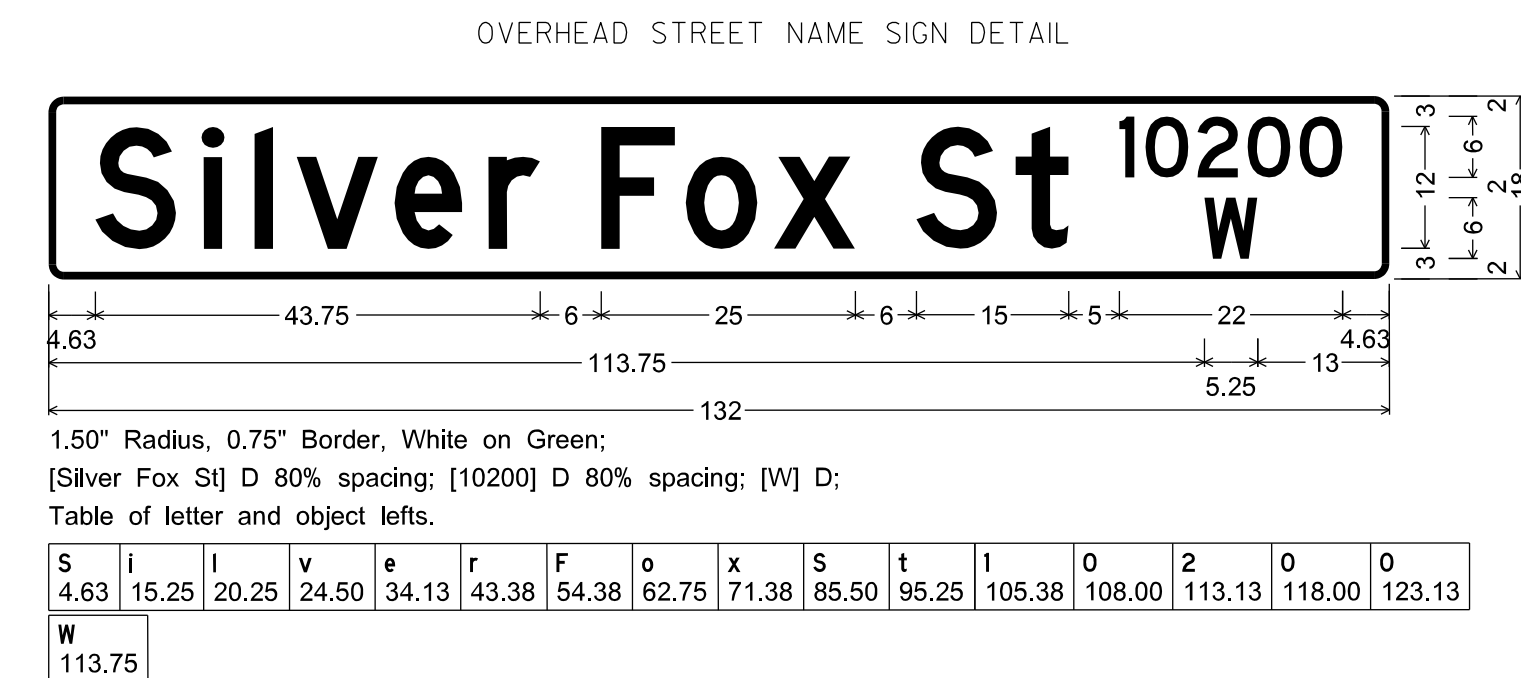
R9-5

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 COMPLETE OPERATION OF THE TRAFFIC SIGNAL SYSTEM WHETHER SPECIFICALLY MENTIONED OR NOT.

BILL OF MATERIALS			
ITEM	QUANT.	UNIT	NOTE
CONTROLLER UNIT	1	EACH	CITY PROVIDED - CONTRACTOR INSTALLED
MALFUNCTION MANAGEMENT UNIT	1	EACH	CITY PROVIDED - CONTRACTOR INSTALLED
SURGE PROTECTOR	1	EACH	
LOAD SWITCH	6	EACH	
FLASHER	2	EACH	
FLASH TRANSFER RELAY	4	EACH	
DETECTOR, 2-CHANNEL	4	EACH	
DETECTOR, 4-CHANNEL		EACH	
POLE MOUNTED CABINET (336)		EACH	
PAD MOUNTED CABINET (332)	1	EACH	
TRAFFIC SIGNAL HEAD	CHART A	EACH	
SIGNAL HEAD MOUNTING BRACKET	CHART A	EACH	
BACK PLATE	CHART A	EACH	
VEHICLE TRAFFIC SIGNAL LAMP		EACH	
PEDESTRIAN TRAFFIC SIGNAL LAMP		EACH	
L.E.D. LENS	CHART A	EACH	
PEDESTRIAN PUSHBUTTON & SIGN (R10-3E)	2	EACH	
TRAFFIC SIGNAL POLE	CHART B	EACH	
TRAFFIC SIGNAL PEDESTAL ALUMINUM	1	EACH	
TERMINAL BLOCK	5	EACH	
JUNCTION BOX		EACH	
SERVICE BOX	4	EACH	
LUMINAIRE ARM	4	EACH	
LUMINAIRE LED WESTAR 250 WATT EQUIVALENT	4	EACH	WESTAR PROVIDED AND INSTALLED
PHOTOCELL	4	EACH	WESTAR PROVIDED AND INSTALLED
UNFUSED STREET LIGHT CONNECTOR KIT	-	EACH	
FUSED STREET LIGHT CONNECTOR KIT	-	EACH	
OVERHEAD STREET NAME SIGN	CHART C	EACH	
R10-12 SIGN (30" X 36")	1	EACH	
BICYCLE SIGNAL SIGN (R9-5) (12" X 18")	2	EACH	
BLANK OUT SIGN		EACH	
ENTRANCE HEAD	1	EACH	
SERVICE ENCLOSURE, 125 AMP. COMMERCIAL	1	EACH	
CIRCUIT BREAKER, TRAFFIC SIGNAL, 50 AMP.	1	EACH	
CIRCUIT BREAKER, LUMINAIRE, 15 AMP.	1	EACH	
SURGE ARRESTOR CA 302R	1	EACH	
GROUND ROD & CLAMP	11	EACH	
SERVICE WIRE NO. 6 AWG 1/C	240	LIN FT	
LIGHTING DISTRIBUTION WIRE NO. 8 AWG 1/C	-	LIN FT	
POLE & BRACKET WIRE NO. 10 AWG 1/C	-	LIN FT	
GROUND WIRE NO. 6 AWG 1/C	600	LIN FT	
MULTI-CONDUCTOR CABLE NO. 14 AWG 5/C	3265	LIN FT	
MULTI-CONDUCTOR CABLE NO. 14 AWG 7/C	1090	LIN FT	
MULTI-CONDUCTOR CABLE NO. 14 AWG 2/C		LIN FT	
MULTI-CONDUCTOR CABLE NO. 14 AWG 6/C		LIN FT	
VIDEO	1090	LIN FT	
SHIELDED DETECTOR LEAD-IN CABLE NO. 14 AWG 2/C		LIN FT	
DETECTOR LOOP WIRE NO. 14 AWG 1/C		LIN FT	
LOOP SEALANT	AS REQ'D		
PRE-FORMED LOOP		EACH	
AERIAL INTERCONNECT	2	EACH	
CONDUIT, 1" & FITTINGS		LIN FT	
CONDUIT, 1 1/2" & FITTINGS		LIN FT	
CONDUIT, 2" & FITTINGS	45	LIN FT	
CONDUIT, 3" & FITTINGS	551	LIN FT	
CONDUIT, 4" & FITTINGS		LIN FT	
VIDEO DETECTION SYSTEM	1	LSUM	
TYPE A FOOTING	3	EACH	*
TYPE B FOOTING	1	EACH	*

*SEE SHT. 6 FOR MORE INFORMATION

- QUANTITIES SHOWN ARE FOR SILVER FOX STREET AND MAIZE ROAD SIGNAL.
- CONDUIT SHALL BE BORED UNDER EXISTING PAVEMENT.
- THE TRAFFIC SIGNAL SYSTEM SHALL BE FOR THE COMPLETE INSTALLATION OF ALL CONTROLLERS, CAMERAS, WIRE, INTERCONNECT, CONNECTIONS, ETC. NEEDED FOR THE SATISFACTORY OPERATION OF THE TRAFFIC SIGNAL SYSTEM.
- THE CONFLICT MONITORS SUPPLIED SHALL BE 2010 ECL-IP CONFLICT MONITORS AND SHALL MEET THE REQUIREMENTS OUTLINED IN CALTRANS TEES 2002 (LATEST VERSION).
- PEDESTRIAN SIGNALS SHALL BE COUNTDOWN AND BE GE MODEL PS7-CFFI-26A OR APPROVED EQUAL
- AERIAL INTERCONNECT TO 37TH AND 29TH STREET (ON MAIZE ROAD) SIGNALS SHALL BE INSTALLED BY THE CONTRACTOR. ALVARION SU-A5.8-54-BD-VL RADIOS SHALL BE INSTALLED. AERIAL INTERCONNECT SHALL BE SUBSIDIARY TO THE BID ITEM "TRAFFIC SIGNALIZATION"
- ALL POLES AND EQUIPMENT SHALL BE PAINTED BLACK.
- PUSH BUTTONS SHALL BE POLARA 4-WIRE NAVIGATOR APS PED SIGNAL W/ SIGN. UNIT SHALL INCLUDE ALL MOUNTING ASSEMBLY AND HARDWARE.
- ALL BACKPLATES SHALL BE EQUIPPED WITH A 2" RETRO-REFLECTIVE YELLOW BORDER MEETING ASTM D-4956 TYPE IX SHEETING SPECIFICATIONS.
- TWO COMPLETE SPARE VIDEO DETECTION CAMERAS AND PROCESSORS SHALL BE PROVIDED IN ADDITION TO THE UNITS LISTED ON THE PLANS.



BID ITEM -QUANTITIES FOR INFORMATION ONLY-		
ITEM	UNIT	QUANTITY
TRAFFIC SIGNALIZATION	L.S.	L.S.



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 FAX: 316-303-0156

CONSULTANTS:

SILVER FOX STREET & MAIZE ROAD
 TRAFFIC SIGNALIZATION



REVISIONS:	DESCRIPTION	MARK	DATE

PROJ NO: P125100009
 SCALE: NTS
 DATE: 2/17/2016
 DESIGNED BY: CCB
 DRAWN BY: CCB
 CHECKED BY: SGE

SHEET TITLE:
TRAFFIC SIGNAL DETAILS

SHEET NO.
5
 SHEET 5 OF 30