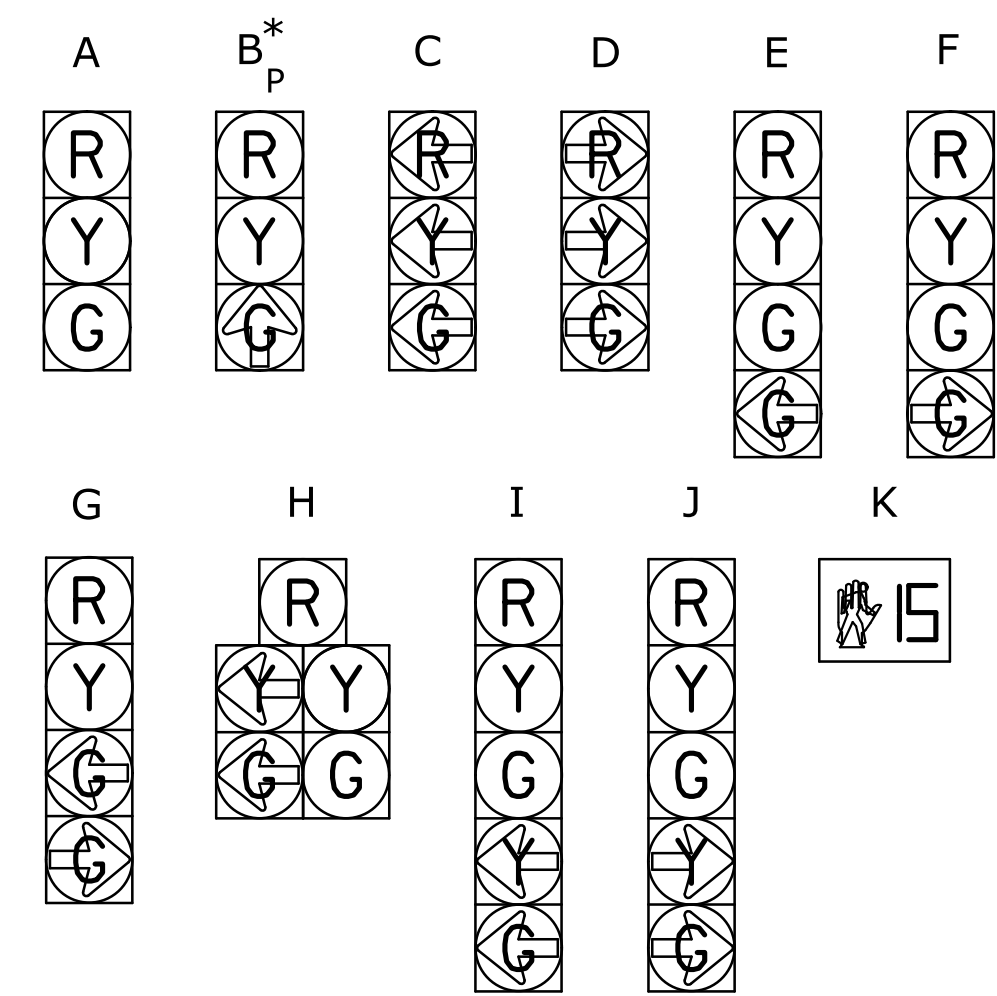


CHART A SIGNAL SUMMARY

SIGNAL FACE ARRANGEMENT	NO. SECTIONS (PER FACE)	SIGNAL MOUNTING TYPE	QUANTITY
A	3	MAST ARM W/BACKPLATE	6
		MAST ARM W/BACKPLATE	
		MAST ARM W/BACKPLATE	
A	3	SIDE-OF-POLE	4
K	1	SIDE-OF-POLE	8
		SIDE-OF-POLE	



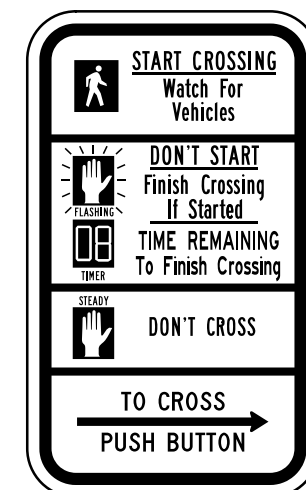
* SUBSCRIPT "P" INDICATES PROGRAMMED SIGNALS.
NOTE: ALL LENSES ARE L.E.D. UNLESS OTHERWISE NOTED.

CHART B TRAFFIC SIGNAL POLES

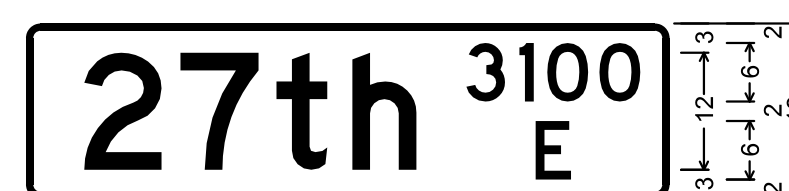
POLE HEIGHT	SIGNAL ARM LENGTH	SIGNAL ARM MOUNTING HEIGHT	NO. OF SIGNALS ON ARM	SIGNAL SPACING	LUMINAIRE ARM LENGTH	LUMINAIRE MOUNTING HEIGHT	QUANT.
① 35.0'	16.0'	19.0'	1	14.0'	15.0'	35.0'	1
② 35.0'	26.0'	19.0'	2	13.0', 25.0'	15.0'	35.0'	1
③ 35.0'	16.0'	19.0'	1	13.0'	15.0'	35.0'	1
④ 35.0'	28.0'	19.0'	2	15.5', 27.0'	15.0'	35.0'	1

CHART C OVERHEAD STREET NAME SIGNS

SIGN	LEGEND	LENGTH	QUANTITY
1	HILLSIDE 2700 N	90"	1
2	27TH ST 3100 E	66"	1
3	HILLSIDE 2800 N	90"	1
4	27TH ST 3200 E	66"	1

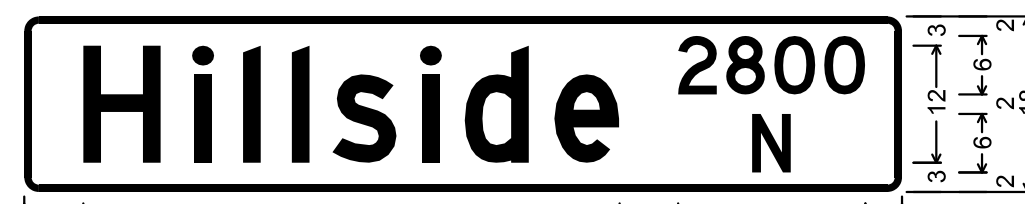


R10-3E



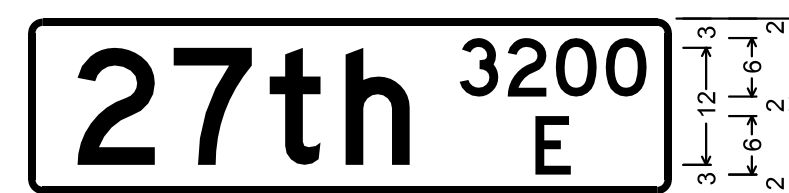
1.50" Radius, 0.75" Border, White on Green;
[27th] D 80% spacing; [3100] D: [E] D;
Table of letter and object lefts.

2	7	t	h	3	1	0	0
6.00	15.88	25.75	33.50	45.13	50.63	53.50	58.75
E	52.25						



1.50" Radius, 0.75" Border, White on Green;
[Hillside] D 80% spacing; [2800] D 80% spacing; [N] D;
Table of letter and object lefts.

H	i	l	s	d	e	2	8	0	0
6.00	17.38	22.38	27.38	31.63	40.75	45.13	54.38	67.00	72.00
N	74.63								



1.50" Radius, 0.75" Border, White on Green;
[27th] D 80% spacing; [3200] D 80% spacing;
[E] D;
Table of letter and object lefts.

2	7	t	h	3	2	0	0
5.00	14.88	24.75	32.50	44.25	49.13	54.13	59.25
E	52.00						



1.50" Radius, 0.75" Border, White on Green;
[Hillside] D 80% spacing; [2700] D 80% spacing; [N] D;
Table of letter and object lefts.

H	i	l	s	d	e	2	7	0	0
6.00	17.38	22.38	27.38	31.63	40.75	45.13	54.38	67.00	72.00
N	74.63								

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	8	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)	8	EACH	
TRAFFIC SIGNAL POLE	CHART B	EACH	
TRAFFIC SIGNAL PEDESTAL ALUMINUM	4	EACH	
TERMINAL BLOCK	8	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		EACH	
UNFUSED STREET LIGHT CONNECTOR KIT		EACH	
FUSED STREET LIGHT CONNECTOR KIT		EACH	
OVERHEAD STREET NAME SIGN	CHART C	EACH	
R10-10 SIGN (24" X 30")		EACH	
R10-12 SIGN (24" X 30")		EACH	
BLANK OUT SIGN		EACH	
ENTRANCE HEAD	1	EACH	
SERVICE ENCLOSURE, 125 AMP. COMMERCIAL	1	EACH	
CIRCUIT BREAKER, TRAFFIC SIGNAL, 30 AMP.	1	EACH	
CIRCUIT BREAKER, LUMINAIRE, 15 AMP.		EACH	
SURGE ARRESTOR CA 302R	1	EACH	
GROUND ROD & CLAMP	14	EACH	
SERVICE WIRE NO. 8 AWG 1/C	680	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	603	LIN FT	
MULTI-CONDUCTOR CABLE NO. 14 AWG 5/C	1615	LIN FT	
MULTI-CONDUCTOR CABLE NO. 14 AWG 7/C	1030	LIN FT	
MULTI-CONDUCTOR CABLE NO. 14 AWG 2/C	80	LIN FT	
MULTI-CONDUCTOR CABLE NO. 14 AWG 6/C		LIN FT	
VIDEO	830	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	
CONDUIT, 1" & FITTINGS		LIN FT	
CONDUIT, 1 1/2" & FITTINGS		LIN FT	
CONDUIT, 2" & FITTINGS	251	LIN FT	
CONDUIT, 3" & FITTINGS	471	LIN FT	
CONDUIT, 4" & FITTINGS		LIN FT	
VIDEO DETECTION SYSTEM	1	LSUM	

NOTES:

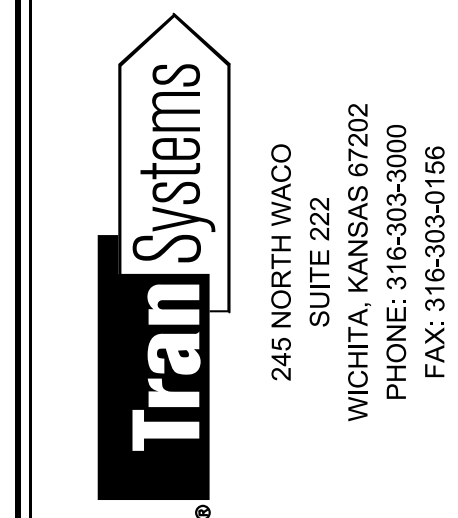
- QUANTITIES SHOWN ARE FOR 27TH STREET AND HILLSIDE STREET SIGNAL.
- CONDUIT SHALL BE BORED UNDER EXISTING PAVEMENT
- THE TRAFFIC SIGNAL SYSTEM SHALL BE FOR THE COMPLETE INSTALLATION OF ALL CONTROLLERS, CAMERAS, WIRE, CONNECTIONS, INTERCONNECT, CONNECTIONS, ETC. NEEDED FOR THE SATISFACTORY OPERATION OF THE TRAFFIC SIGNAL SYSTEM
- THE CONFLICT MONITORS SUPPLIED SHALL BE 2010 ECL-IP CONFLICT MONITORS AND SHALL MEET THE REQUIREMENTS OUTLINED IN THE CALTRANS TEES 2002 (LATEST VERSION)
- PEDESTRIAN SIGNALS SHALL BE COUNTDOWN AND BE G MODEL PS7-CFFI-26A OR APPROVED EQUAL.
- 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.
- TWO COMPLETE SPARE VIDEO DETECTION CAMERAS AND PROCESSORS SHALL BE REQUIRED IN ADDITION TO UNITS SHOWN ON PLANS.

BID ITEM

ITEM	UNIT	QUANTITY
TRAFFIC SIGNALIZATION	L.S.	L.S.

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.



CONSULTANTS:

27TH STREET & HILLSIDE STREET SIGNALIZATION IMPROVEMENTS

CITY OF WICHITA, KANSAS



REVISIONS:	DESCRIPTION	DATE	MARK

PROJ NO: P125130050
SCALE: N.T.S.
DATE: 9/29/2015
DESIGNED BY: TAU
DRAWN BY: TAU
CHECKED BY: SGE

SHEET TITLE:
27TH & HILLSIDE SIGNALIZATION IMPROVEMENTS QUANTITIES

SHEET NO.
12
SHEET 12 OF 26