CHART A SIGNAL SUMMARY

	NO. WAYS	NO. SECTIONS (per face)	SIGNAL FACE ARRANGEMENT	MOUNTING TYPE	QUANTITY
	1	3	A	RIGID MAST ARM	8
	1	3	C	RIGID MAST ARM	2
	1	5	I	RIGID MAST ARM	2
	2	2	K	VERTICAL BRACKET	8
	1	3	A	VERTICAL BRACKET	4

MAJOR ITEMS OF ELECTRONIC EQUIPMENT

ITEM	QTY
CONTROLLER, MODEL 170 WITH 400 MODEM	1
CONTROLLER, CABINET, PAD-MOUNTED	1
CONFLICT MONITOR 210P, MS OR ECL	1
FLASHER	2
FLASH TRANSFER RELAY	4
LOAD SWITCH	8
SURGE PROTECTOR	1
DC ISOLATOR	3
PROGRAM MODULE 412 B W/ WAPITI 56 OR LATEST REV	1

CHART C

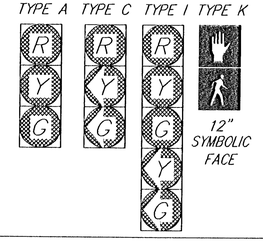
CONDUIT	TRENCHED	PUSHED
19mm		
25mm	15m	
32mm		
50mm	20m	
76mm	30m	

CHART D

STREET NAME SIGN SUMMARY	
LEGEND	SIZE
21st St	2
119th St	2

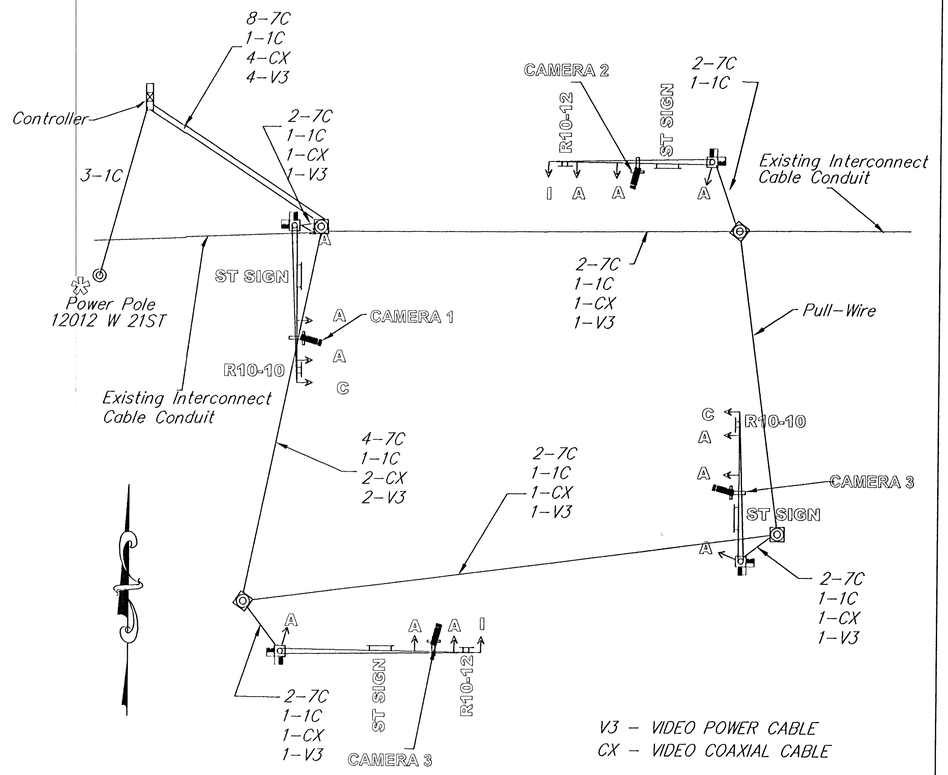
SIGNAL FACE SUMMARY

PHASE	TYPE	# REQ'D
1	C	1
2	A, K	3, 2
3	I	1
4	A, K	3, 2
5	C	1
6	A, K	3, 2
7	I	1
8	A, K	3, 2



BILL OF MATERIALS

ITEM	UNIT	QUANT.
POLE MOUNTED CONTROLLER & CABINET	EACH	
PEDESTAL MOUNTED CONTROLLER & CABINET	EACH	
PAD MOUNTED CONTROLLER & CABINET	EACH	1
TRAFFIC SIGNAL HEAD (SEE CHART A) W/MOUNTING HARDWARE	EACH	24
TRAFFIC SIGNAL POLE (SEE CHART B) STEEL	EACH	4
TRAFFIC SIGNAL POLE (SEE CHART B) ALUMINUM	EACH	
TRAFFIC SIGNAL PEDESTAL ALUMINUM 4.5m	EACH	
CONCRETE CONTROLLER PAD	EACH	1
CONCRETE FOOTING - PEDESTAL	EACH	
CONCRETE FOOTING - POLE	EACH	4
CONDUIT ELBOW 90	EACH	As Needed
CONDUIT ELBOW 90 3"	EACH	As Needed
BACK PLATE 5" 3 SECTION	EACH	10
BACK PLATE 5" 4 SECTION	EACH	
BACK PLATE 5" 5 SECTION	EACH	2
TERMINAL BLOCK	EACH	
SERVICE BOX	EACH	
JUNCTION BOX	EACH	
GROUND ROD & CLAMP	EACH	5
RED L.E.D. KIT	EACH	16
YELLOW L.E.D. KIT	EACH	14
GREEN L.E.D. KIT	EACH	14
YELLOW ARROW	EACH	4
GREEN ARROW	EACH	4
ORANGE/WHITE L.E.D. KIT(12" COMBINATION-"HAND/MAN" INDICAT.)	EACH	8
ENTRANCE HEAD	EACH	
CIRCUIT BREAKER & BOX 40 AMP	EACH	
GUY WIRE GUARD	EACH	
GUY WIRE CLAMP	EACH	
THIMBLE EYE ANCHOR ROD	EACH	
PEDESTRIAN PUSHBUTTON W/SIGN	EACH	8
PEDESTRIAN INDICATOR HEAD WITH MOUNTING HARDWARE	EACH	8
COMMUNICATION CABLE 6 PAIR NO. 19 A.W.G.	METER	
DETECTOR LOOP WIRE NO. 14 A.W.G 1/c (TYPE THHN)	METER	
LEAD-IN WIRE NO. 6 A.W.G. 1/c (TYPE THHN)	METER	50
MULTI-CONDUCTOR CABLC NO. 14 A.W.G. 5/c	METER	200
MULTI-CONDUCTOR CABLE NO. 14 A.W.G. 7/c	METER	600
MULTI-CONDUCTOR CABLE NO. 14 A.W.G. 2/c	METER	
SHIELDED DETECTOR LEAD-IN NO. 16 A.W.G. 2/c	METER	
CONDUIT 19mm SEE CHART C	METER	
CONDUIT 25mm SEE CHART C	METER	15
CONDUIT 32mm SEE CHART C	METER	
CONDUIT 50mm SEE CHART C	METER	20
CONDUIT 76mm SEE CHART C	METER	30
STANDARD IC #8 (GROUND)	METER	ISO
TETHER WIRE 6mm ASTM A475 Siemens-Martin Grade Min.	METER	
REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT **	L. S.	1
STREET NAME SIGNS - SEE CHART D	EACH	4
LEFT TURN YIELD ON GREEN W/MOUNTING HARDWARE (R10-12)	EACH	2
LEFT TURN SIGNAL ON GREEN W/MOUNTING HARDWARE(R10-10)	EACH	2
VIDEO DETECTION SYSTEM (4 CAMERAS) & MOUNTING HARDWARE	EACH	1
COAX CABLE - 75 OHM (BELDEN 8281)	METER	325
VIDEO POWER CABLE #16 AWG 3/C	METER	325
VIDEO DETECTION PROCESSOR UNIT	EACH	1
CAMERA HOUSING	EACH	4
CAMERA CHARGED COUPLING DEVICE	EACH	4



V3 - VIDEO POWER CABLE
CX - VIDEO COAXIAL CABLE

NO SCALE

* EXISTING METER TO BE RETAINED

CHART B

TRAFFIC SIGNAL POLE SUMMARY

STATION	OFFSET	POLE TYPE	MAST ARM LENGTH	NO. OF SIGNALS ON MAST ARM	BRACKET TYPE	NO. OF SIGNALS ON POLE	BRACKET TYPE	OTHER EQUIPMENT ON ARM
9+979.205	18.034 Lt.	A	17.25 m	3 - D	I	1-D, 2-E	II	C, F, G
9+979.803	23.244 Rt.	B	17 m	3 - D	I	1-D, 2-E	II	C, F, G
10+16.700	23.861 Lt.	A	14 m	3 - D	I	1-D, 2-E	II	C, F, G
10+017.084	23.580 Rt.	A	20 m	3 - D	I	1-D, 2-E	II	C, F, G

LEGEND:
A. STANDARD STEEL POLE WITH MAST ARM
B. STANDARD STEEL POLE WITH MAST ARM (JOINT USE)
C. PROTECTED TURN SIGN (R10-12)
D. TRAFFIC SIGNAL
E. PEDESTRIAN SIGNAL WITH PUSH BUTTON
F. STREET NAME SIGN
G. VIDEO DETECTION CAMERA

- Quantities For Information Only -

NOTE: The contractor shall supply and install all necessary materials and equipment for the complete installation and operation of the traffic signal system whether specifically mentioned or not.

* Subscript "P" indicates programmed signals. Subscript "D" indicates dual-mode green/yellow arrow section.

** Removal of existing traffic signal equipment shall include removal of foundations, service boxes, and junction boxes. See construciton traffic control reqarding removal of existing signals.

SIGNAL TIMING BY
CITY OF WICHITA
PAUL GUNZELMAN
268-4448

WICHITA PUBLIC WORKS ENGINEERING

21st & 119th Streets
Summary of Quantities

NEIL CABLE, P.E.
NEIL CABLE, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
472-83609	710216	09/2002

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501
(316) 268-4114 FAX

DESIGN	DRAWN
PDG	LRB

SHEET 4 OF 7

PLOT FILE: K:\BLACKWELL_\Intersections\21st 119th 83138\119th - 21st Signal.dwg