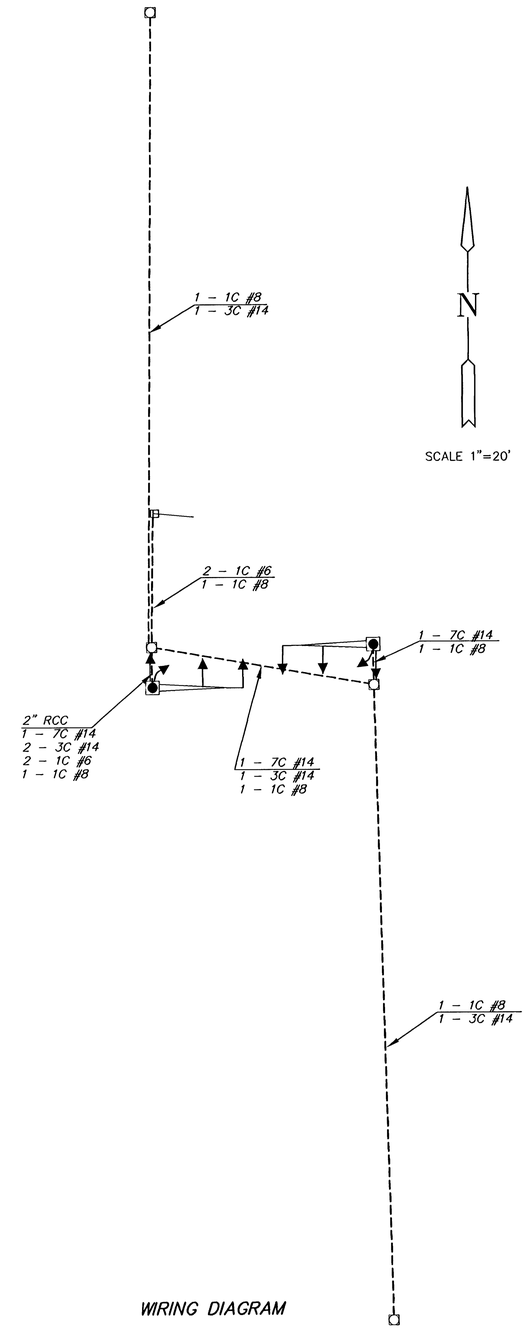
BILL OF MATERIALS (FOR INFORMATION ONLY)

ITEM	UNIT	QUANTITY
* MODEL CONTROLLER		
* CONTROLLER CABINET	EACH	1
METER BOX	EACH	1
POWER DISCONNECT W/BREAKER	EACH	1
* TRAFFIC SIGNAL POLE & MAST ARM (27')	EACH	X
CONCRETE BASE FOR SIGNAL POLE	EACH	2
15' PEDESTAL W/BASE	EACH	2
PEDESTRIAN SIGNAL LAMPS LED	EACH	2
TRAFFIC SIGNAL HEAD (TYPE A) W/BRACKETS	EACH	6
PEDESTRIAN SIGNAL HEAD (TYPE K) W/BRACKETS 12" COMBINATION	EACH	2
PEDESTRIAN PUSHBUTTON W/SIGN (ONE PC)	EACH	2
TRAFFIC SIGNAL LAMP	EACH	22
GROUND ROD AND CLAMP	EACH	5
SERVICE BOX	EACH	2
3" RGC CONDUIT	L.F.	70
2" RGC CONDUIT	L.F.	430
1" RGC CONDUIT	L.F.	40
MULTI-CONDUCTOR CABLE 3C #14 AWG	L.F.	469
MULTI-CONDUCTOR CABLE 7C #14 AWG	L.F.	92
GROUND WIRE (THHN #8 AWG)	L.F.	509
POWER SUPPLY WIRE (THHN #6 AWG)	L.F.	104

* CITY OF WICHITA PROVIDING. CONTACT TERRY NICHOLAS, 268-4033 FOR PICKUP. CONTRACTOR WILL BE RESPONSIBLE FOR ANCHOR SYSTEM.



WIRING DIAGRAM

* THE CONTROLLER AND CABINET SHALL INCLUDE THE FOLLOWING:

*Model 170 controller unit complete with W4IKS (53A or latest revision) traffic program on 412B system - memory module and model 400 modem.
*One model 336 cabinet (meeting City of Wichita specifications) complete with all accessories including:
*1 - Model 210 ECL or MS Conflict Monitor.
*4 - Transfer Relays
*2 - Model 204 Flasher Units
*2 - Model 242 Two Channel Isolaters
*2 - Model 200 Switch Packs

The contractor shall be responsible for furnishing and installing the controller, cabinet and software and for all equipment necessary for the complete and satisfactory operation of the traffic signal, whether or not said equipment is specifically mentioned.

The contractor shall furnish and install all power supply cable and traffic signal cable for the complete operation of the traffic signal. No splices will be allowed outside pole bases, service boxes, or junction boxes.

Each separate mast arm mounted signal head shall have one continuous run of five-conductor cable from the pole base to the signal head. A one-conductor #8 AWG (green) shall be installed to connect all grounding lugs in pole bases and controller base.

One, seven-conductor cable shall be run from the controller to each pole supporting a mast arm-mounted vehicle indication. The following color code shall be used:

White	Common
Red	Red Ball
Green	Green Ball
Orange	Yellow Ball
White/Black	Don't Walk
Blue	Walk
Black	Pushbutton

One, five-conductor cable shall be run from each 3-section thru signal head to the pole base.

One, five-conductor cable shall be run from each 2-way side-of-pole pedestrian signal to the pole base. The following color code shall be used:

Red	Don't Walk
Green	Walk
White	Common
Orange	Spare
Black	Spare

One, two-conductor cable shall be run from pushbutton to pole base.

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MKEC ENGINEERING CONSULTANTS
411 N. WEBB ROAD
WICHITA, KS. 67206
316 - 684 - 9600

WOODLAWN BLVD. - JACKSON ELEMENTARY
PROJECT NAME

WIRING PLAN
SHEET TITLE

MKEC	DAC	JTC
DESIGN BY:	DRAWN BY:	CHECKED BY:
JUNE 2004	01160SG2	4 / 9
DATE	JOB NO.	SHEET/OF