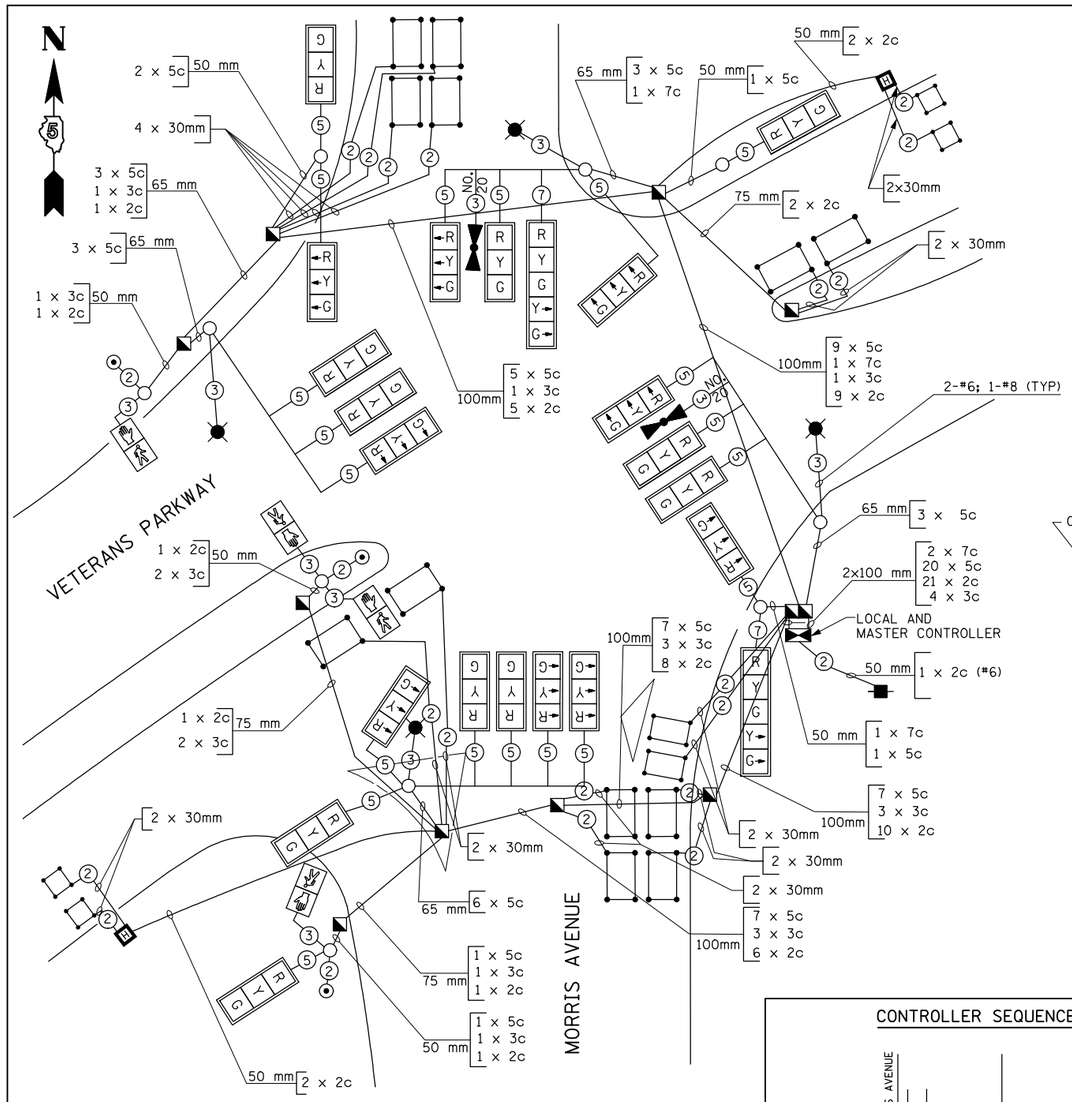
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
704	(1)N &TS-1	McLean	497	256
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 70514



CABLE PLAN

NOT TO SCALE

CABLE PLAN LEGEND:

- SERVICE INSTALLATION
- CONTROLLER
- HANDHOLE
- DOUBLE HANDHOLE
- HEAVY DUTY HANDHOLE
- MAST ARM OR SIGNAL POST
- YELLOW LEFT TURN ARROW
- RED BALL SECTION
- SIGNAL HEAD BACKPLATE
- NUMBER OF CONDUCTORS IN CABLE
- CONDUIT SIZE — 50 mm; NUMBER OF CABLES IN CONDUIT — 3 x 2c; NUMBER OF CONDUCTORS IN EACH CABLE — 1 x 3c
- 12'' (300mm) PEDESTRIAN SIGNAL SECTION
- PEDESTRIAN PUSHBUTTON
- DETECTOR LOOP
- T TELEPHONE INSTALLATION

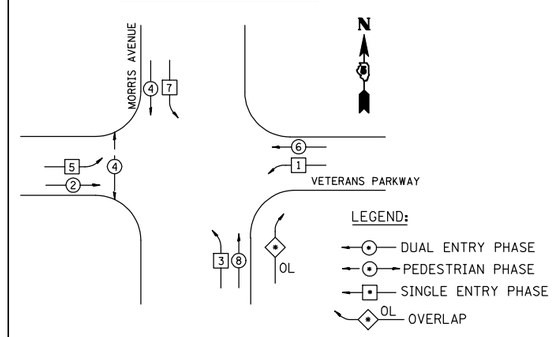
BILL OF MATERIALS

	ITEM	UNIT	QNTY.
	HANDHOLE	EACH	9
	HEAVY DUTY HANDHOLE	EACH	2
	DOUBLE HANDHOLE	EACH	1
	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
	TRANSCEIVER - FIBER OPTIC	EACH	1
	TRAFFIC SIGNAL BACKPLATE, LOUVERED,FORMED PLASTIC	EACH	22
	INDUCTIVE LOOP DETECTOR	EACH	18
	PEDESTRIAN PUSH-BUTTON	EACH	3
	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING HANDHOLE	EACH	8
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
	SIGN PANEL TYPE I	SQ M	4
	SIGN PANEL TYPE II	SQ M	2
	CONDUIT IN TRENCH, 50MM DIA., PVC	METER	233
	CONDUIT IN TRENCH, 65MM DIA., PVC	METER	20
	CONDUIT IN TRENCH, 100MM DIA., PVC	METER	44
	CONDUIT PUSHED, 50MM DIA., GALVANIZED STEEL	METER	14
	CONDUIT PUSHED, 75MM DIA., GALVANIZED STEEL	METER	51
	CONDUIT PUSHED, 100MM DIA., GALVANIZED STEEL	METER	107
	TRENCH AND BACKFILL FOR ELECTRICAL WORK	METER	357
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	METER	1888
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	METER	457
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	METER	1784
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	METER	105
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	METER	368
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	METER	24
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 3.0 METER	EACH	2
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 3.65 METER	EACH	3
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 4.85 METER	EACH	1
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 12.19 METER	EACH	1
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 14.02 METER	EACH	1
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 15.24 METER	EACH	2
	CONCRETE FOUNDATION, TYPE A	METER	7.2
	CONCRETE FOUNDATION, TYPE D	METER	1.2
	CONCRETE FOUNDATION, TYPE E, 750MM DIAMETER	METER	18.4
	DETECTOR LOOP, TYPE I	METER	111
	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C	METER	1308
	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125 MM12F & SM12F	METER	1700
	ELECTRIC CABLE IN CONDUIT, GROUNDING NO. 6 1C	METER	265
	SERVICE INSTALLATION, TYPE A	EACH	1
	LIGHT POLE, WOOD, 10.67 METERS, CLASS 3	EACH	1
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	12
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
	SIGNAL HEAD, LED, 2-FACE, 2-3 SECTION, BRACKET MOUNTED	EACH	1
	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1
**	LIGHT DETECTOR	EACH	2
**	LIGHT DETECTOR AMPLIFIER	EACH	1
**	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3C TWISTED SHIELDED	EACH	121
	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED W/CDT	EACH	4
	BATTERY BACKUP	EACH	1

** 100% COST TO CITY OF BLOOMINGTON FIRE DEPARTMENT

NOTE: LIGHTING CABLE SHALL CONSIST OF 2-#6 (XLP-TYPE USE) 1-#8 (XLP-TYPE USE) AND SHALL BE INSTALLED IN THE SEPARATE LIGHTING CONDUIT AS SHOWN ON THE PLAN SHEET. SEE BILL OF MATERIALS FOR LIGHTING.

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	8	+	1

• NUMBER REFERS TO ASSOCIATED PHASE REFER TO STANDARD 857001

TS-07

REVISIONS	
NAME	DATE

AMES Engineering, Inc.
Consulting Engineers
1341 Warren Avenue
Downers Grove, IL 60515

ILLINOIS DEPARTMENT OF TRANSPORTATION

VETERANS PARKWAY & MORRIS AVENUE
SCHEDULE OF QUANTITIES, CABLE PLAN
AND PHASE DESIGNATION DIAGRAM

SCALE:

DATE: MARCH, 2009

DRAWN BY: RV
DESIGNED BY: AS
CHECKED BY: MSA

$FILE$
10/14/2010 $TIME$