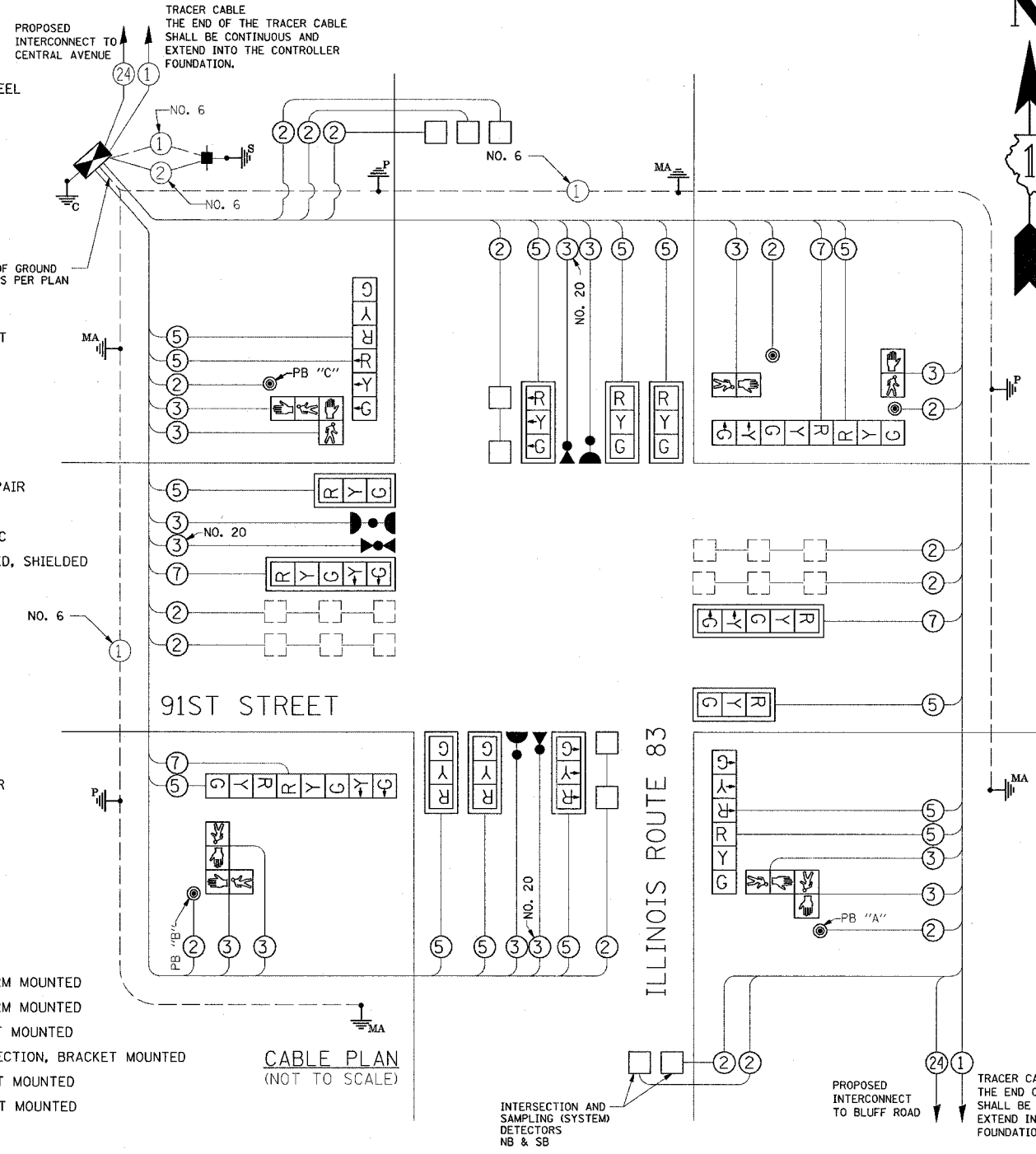


**SCHEDULE OF QUANTITIES**

28.5	SQ FT	SIGN PANEL - TYPE 1
516	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
71	FOOT	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL
71	FOOT	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL
15	FOOT	CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL
90	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
354	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
190	FOOT	CONDUIT PUSHED, 5" DIA., GALVANIZED STEEL
5	EACH	HANDHOLE
1	EACH	HEAVY-DUTY HANDHOLE
2	EACH	DOUBLE HANDHOLE
654	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET
1	EACH	TRANSCEIVER - FIBER OPTIC
1155	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
2249	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
3183	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
901	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
3234	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
35	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
701	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
610	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20, 3/C, TWISTED, SHIELDED
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 55 FT.
16	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE C
60	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
2	EACH	DRILL EXISTING HANDHOLE
10	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
11	EACH	INDUCTIVE LOOP DETECTOR
310	FOOT	DETECTOR LOOP, TYPE 1
3	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
5	EACH	PEDESTRIAN PUSH-BUTTON
8	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, L.E.D., 2-FACE, 3 SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, L.E.D., 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED
3	EACH	PEDESTRIAN SIGNAL HEAD, L.E.D., 2-FACE, BRACKET MOUNTED
1	EACH	SERVICE INSTALLATION, POLE MOUNT
1	EACH	UNINTERRUPTABLE POWER SUPPLY



**CABLE PLAN LEGEND**

- CONTROLLER CABINET
- RAILROAD CONTROL CABINET
- SERVICE INSTALLATION, (P) POLE OR (C) GROUND MOUNT
- TELEPHONE CONNECTION
- GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE
- FIBER OPTIC CABLE IN CONDUIT, NUMBER OF FIBERS AS NOTED
- ELECTRIC CABLE IN CONDUIT, NO. 14, UNLESS OTHERWISE NOTED, NUMBER OF CONDUCTORS AS NOTED
- GROUND CABLE IN CONDUIT NO. 6 COPPER (GREEN)
- SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD
- 12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE
- 12" (300mm) TRAFFIC SIGNAL SECTION
- 12" (300mm) PEDESTRIAN SIGNAL SECTION
- ILLUMINATED SIGN "NO LEFT TURN"
- ILLUMINATED SIGN "NO RIGHT TURN"
- PUSHBUTTON DETECTOR
- DETECTOR LOOP
- PREFORMED DETECTOR LOOP
- MICROWAVE VEHICLE SENSOR
- VIDEO DETECTOR
- CLOSED CIRCUIT TV
- EMERGENCY VEHICLE SYSTEM DETECTOR
- CONFIRMATION BEACON

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2005-079 15	DUPAGE	19	12
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

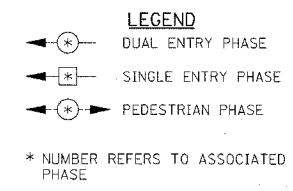
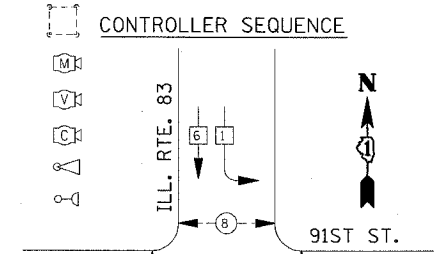
CONTRACT NO. 60A92

INSTALLATION OF THE TEMPORARY TRAFFIC SIGNALS AND ROADWAY IMPROVEMENTS AT IL. RTE. 83 AND 91ST STREET WILL BE DONE BY DUPAGE COUNTY, SECTION #05-0002-10-BT. THEIR SCHEDULED COMPLETION DATE, AT THIS PRINTING IS SEPTEMBER 30, 2007. REMOVAL OF THE TEMPORARY TRAFFIC SIGNALS WILL BE DONE BY THE IDOT CONTRACTOR AND TRANSPORTED TO A LOCATION WITHIN DUPAGE COUNTY. THE DUPAGE COUNTY CONTACT PERSON IS PAUL KRUEGER (630) 407-6914.

PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 & 4  
 PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 4 & 6  
 PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 & 8



EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	↑	↓	↔



**PHASE DESIGNATION DIAGRAM**  
(NOT TO SCALE)

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 ILL. RTE. 83 AT  
 91ST STREET  
 CABLE PLAN  
 PHASE DESIGNATION DIAGRAM  
 EMERGENCY VEHICLE PREEMPTION SEQUENCE  
 SCHEDULE OF QUANTITIES

SCALE: VERT. 1" = 20'  
 HORIZ. 1" = 20'  
 DATE 3/20/2007

DRAWN BY CJS  
 DESIGNED BY RF  
 CHECKED BY RAC

IDOT TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		% OPERATION	
		INCAND.	LED		
SIGNAL (RED)	18	135	17	0.50	153.00
(YELLOW)	22	135	25	0.25	137.50
(GREEN)	22	135	15	0.25	82.50
ARROW	20	135	12	0.10	24.00
PED. SIGNAL	5	90	25	1.00	125.00
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN	-				
FLASHER LED	-			0.50	
TOTAL =					622.00

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	15 (4.0)	MAST ARM (L) POLE	20 + L - 5 =
E - M. ARM POLE	2 (0.6)	SIGNAL POST	2 (0.6)		(6m + L - 0.6m) =
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
		ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

**MORRIS ENGINEERING, INC.**  
 5100 S. LINCOLN SUITE 100 LISLE, ILLINOIS 60532  
 PHONE: (630)271-0770 EMAIL: ECIVIL.COM  
 ILLINOIS BUSINESS REGISTRATION #184-001245

NAME	DATE