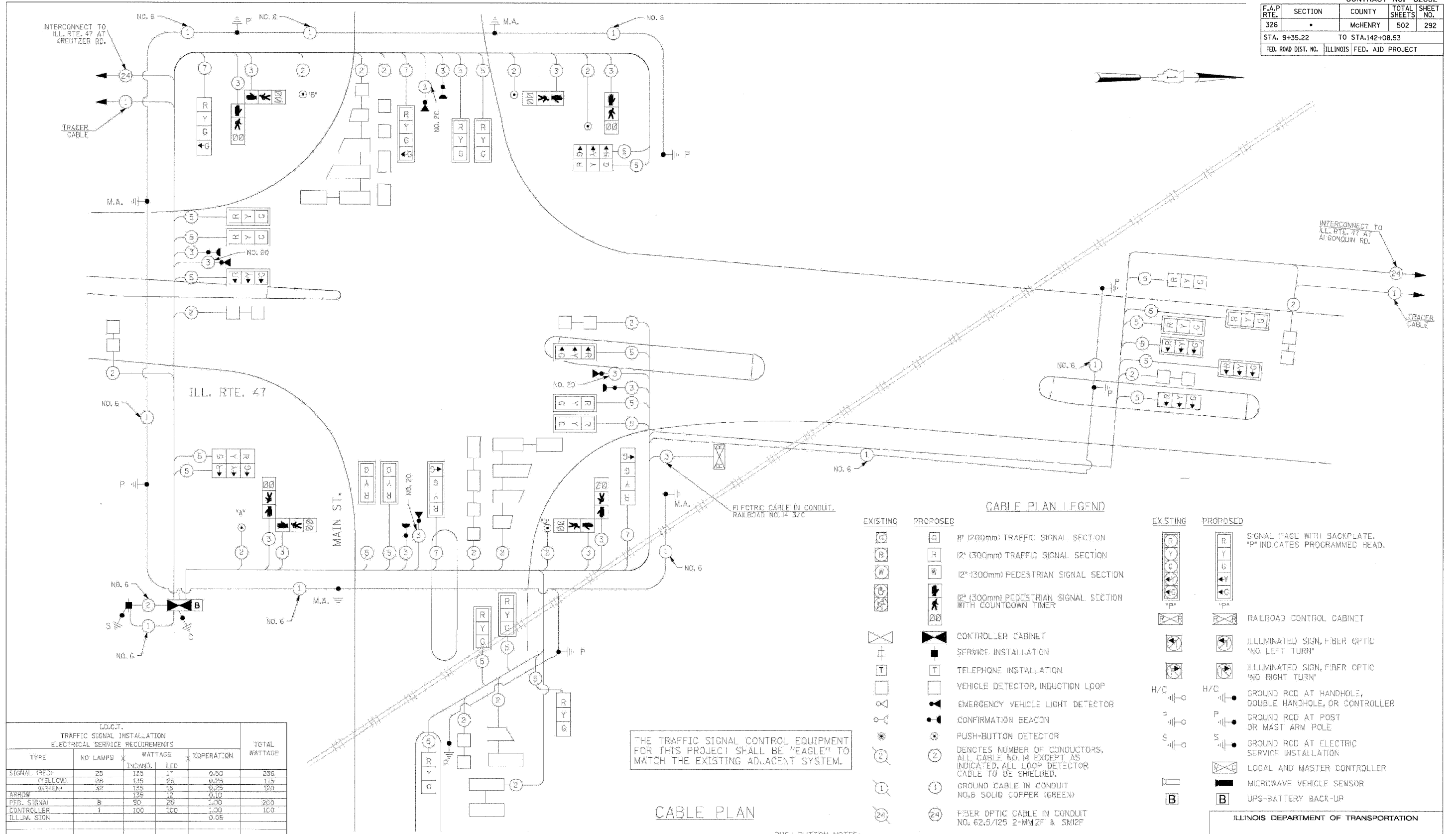


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326		McHENRY	502	292
STA. 9+35.22		TO STA.142+08.53		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



CABLE PLAN LEGEND

- | EXISTING | PROPOSED | DESCRIPTION | EXISTING | PROPOSED | DESCRIPTION |
|----------|----------|---|----------|----------|--|
| [Symbol] | [Symbol] | 8" (200mm) TRAFFIC SIGNAL SECTION | [Symbol] | [Symbol] | SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD. |
| [Symbol] | [Symbol] | 12" (300mm) TRAFFIC SIGNAL SECTION | [Symbol] | [Symbol] | RAILROAD CONTROL CABINET |
| [Symbol] | [Symbol] | 12" (300mm) PEDESTRIAN SIGNAL SECTION | [Symbol] | [Symbol] | ILLUMINATED SIGN, FIBER OPTIC 'NO LEFT TURN' |
| [Symbol] | [Symbol] | 12" (300mm) PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMER | [Symbol] | [Symbol] | ILLUMINATED SIGN, FIBER OPTIC 'NO RIGHT TURN' |
| [Symbol] | [Symbol] | CONTROLLER CABINET | [Symbol] | [Symbol] | H/C GROUND RCD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER |
| [Symbol] | [Symbol] | SERVICE INSTALLATION | [Symbol] | [Symbol] | P GROUND RCD AT POST OR MAST ARM POLE |
| [Symbol] | [Symbol] | TELEPHONE INSTALLATION | [Symbol] | [Symbol] | S GROUND RCD AT ELECTRIC SERVICE INSTALLATION |
| [Symbol] | [Symbol] | VEHICLE DETECTOR, INDUCTION LOOP | [Symbol] | [Symbol] | LOCAL AND MASTER CONTROLLER |
| [Symbol] | [Symbol] | EMERGENCY VEHICLE LIGHT DETECTOR | [Symbol] | [Symbol] | MICROWAVE VEHICLE SENSOR |
| [Symbol] | [Symbol] | CONFIRMATION BEACON | [Symbol] | [Symbol] | UPS-BATTERY BACK-UP |
| [Symbol] | [Symbol] | PUSH-BUTTON DETECTOR | [Symbol] | [Symbol] | |
| [Symbol] | [Symbol] | 2 DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED, ALL LOOP DETECTOR CABLE TO BE SHIELDED. | | | |
| [Symbol] | [Symbol] | 1 GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN) | | | |
| [Symbol] | [Symbol] | 24 FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM2F & SM12F | | | |

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

CABLE PLAN

PUSH-BUTTON NOTES:
 PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
 PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 3 AND 6
 PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 4

L.D.C.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS	WATTAGE		% OPERATION	
		INCAND.	LED		
SIGNAL (RED)	28	135	17	0.50	236
(YELLOW)	28	135	25	0.25	115
(GREEN)	32	135	15	0.25	120
ARROW		135	12	0.10	
PEP. SIGNAL	8	90	25	1.00	260
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN				0.05	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	833

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)
C-CONTROLLER W/UPS	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'-H-2"
D-CONTROLLER	4 (1.2)	SIGNAL POST	2 (0.6)	6mH-0.6mH	
F-M.ARM POLE		CON. HOLLER CAB.	1 (0.3)	BRACKET MOUNTED	15 (4.6)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PEP. PUSHBUTTON	4 (1.2)
36" (900mm)	15 (4.6)	ELECTRIC SERVICE	1 (0.3)	ELECTRIC SERVICE	13.5 (4.1)
42" (1050mm)	25 (7.6)	GROUND CABLE	1 (0.3)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

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 4/24/2009
 5:04:55 PM

PLOT DATE = Wednesday, August 05, 2009
 FILE NAME = S:\11-0000\11-0000\11-0000-282.dgn
 PLOT SCALE = 1:1
 USER NAME = 3830

GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 605 N. CENTRAL HIGHWAY
 SUITE 306
 CHICAGO, ILLINOIS 60607 TEL: (773) 791-9390

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CABLE PLAN
 ILLINOIS ROUTE 47 AT MAIN STREET

SCALE: N.T.S.
 DATE: APRIL 17, 2009

DRAWN BY: ME,MA,YB
 DESIGNED BY: PKG/RRW
 CHECKED BY: PKG/RRW