

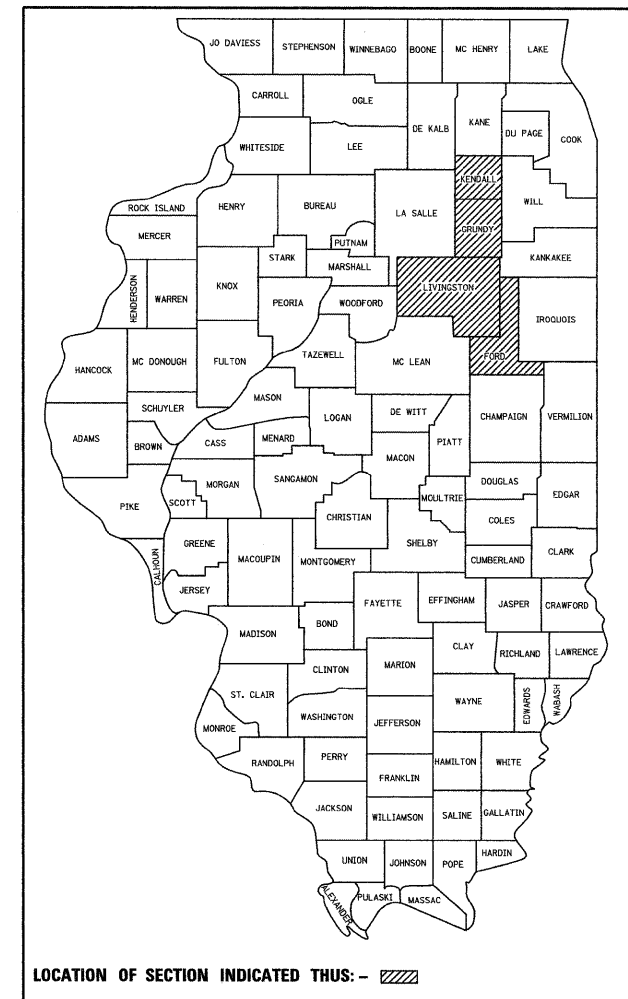
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
**PROPOSED
 HIGHWAY PLANS**
 VARIOUS ROUTES
 SECTION D-3 LED RETROFIT 2012-3

VARIOUS COUNTIES
 (FORD, GRUNDY, KENDALL &
 LIVINGSTON COUNTIES)
 C-93-141-11

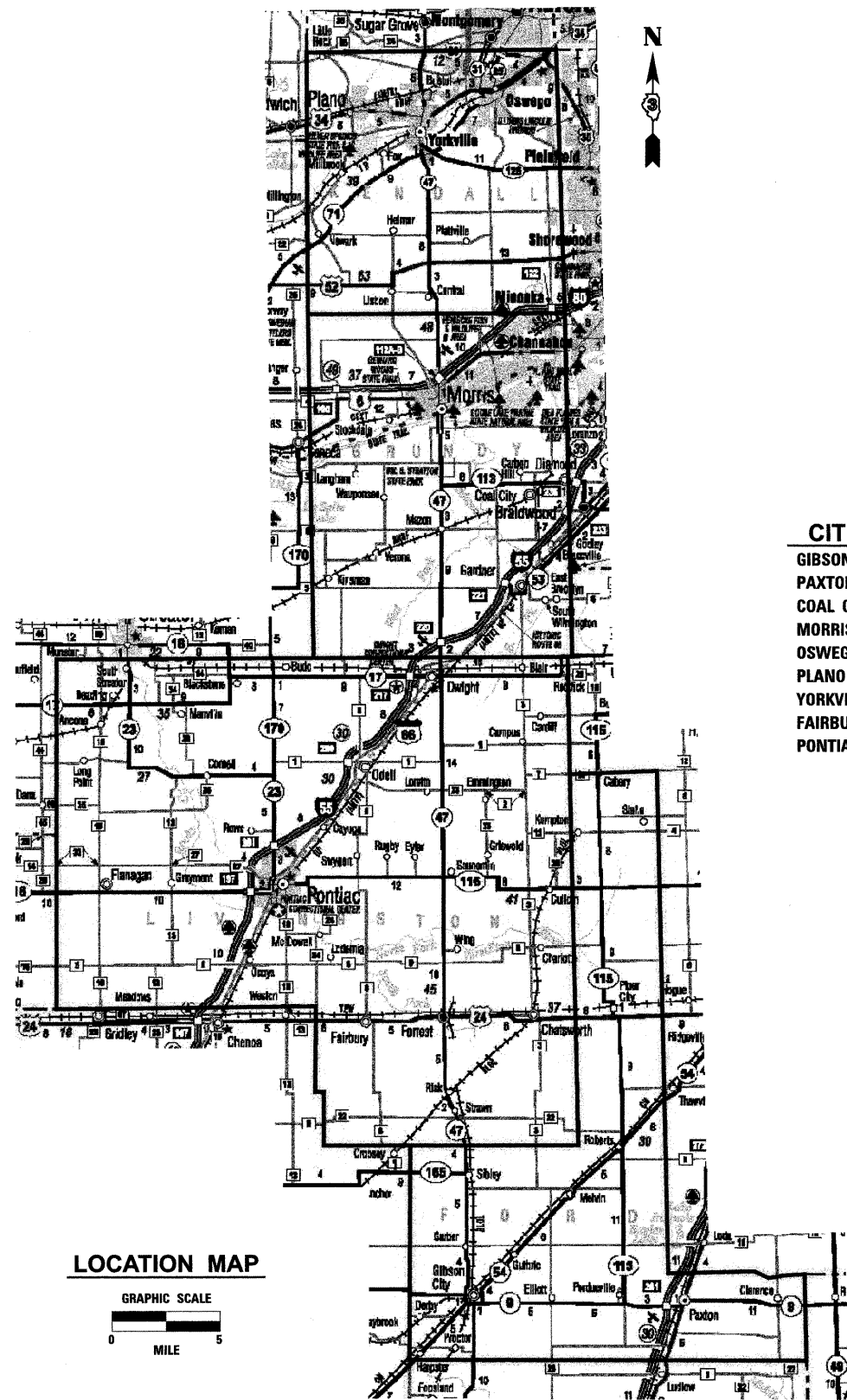
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-3 LED RETROFIT 2012-3	VARIOUS	VARIOUS	29	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 66B56		

*(FORD, GRUNDY, KENDALL & LIVINGSTON)

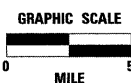
D-93-091-11



LOCATION OF SECTION INDICATED THUS: - [shaded pattern]



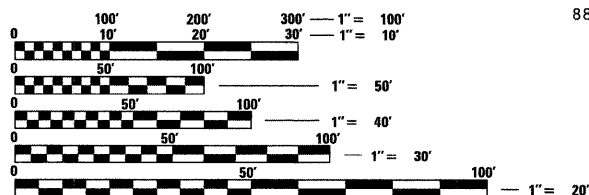
LOCATION MAP



J.U.L.I.E.
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
 1-800-892-0123
 OR 811

PROJECT ENGINEER: TOM HUFNAGLE, P.E.
 UNIT CHIEF: DAN DEVINE, P.E.

CONTRACT NO. 66B56



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

INDEX OF SHEETS

1. COVER SHEET
2. GENERAL NOTES
3. SUMMARY OF QUANTITIES
- 4-11. INTERSECTION LOCATION MAPS
12. SCHEDULE OF QUANTITIES
- 13-14. CABLE PLANS - COAL CITY
- 15-22. CABLE PLANS - MORRIS
- 23-24. CABLE PLANS - STATE
25. CABLE PLANS - YORKVILLE
26. CABLE PLAN - STATE
- 27-29. CABLE PLANS - PONTIAC

HIGHWAY STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 701001-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
- 701006-03 OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24' (600 mm) FROM PAVEMENT EDGE
- 701011-02 OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 701101-02 OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24' (600 mm) FROM PAVEMENT EDGE
- 701106-02 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
- 701501-04 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701502-04 URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
- 701606-08 URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701701-08 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701901-02 TRAFFIC CONTROL DEVICES
- 862001-01 UNINTERRUPTIBLE POWER SUPPLY (UPS)
- 880006-01 TRAFFIC SIGNAL MOUNTING DETAILS



STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED 10-28 20 11

Eric A. [Signature]
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

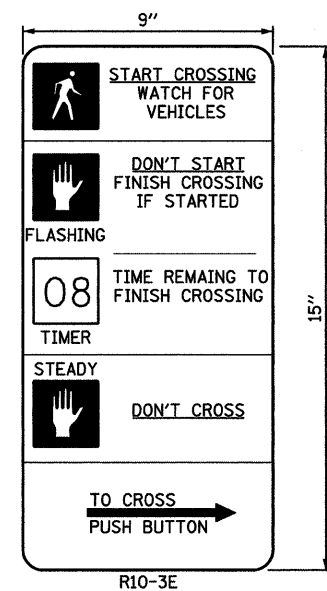
December 9, 20 11
Scott E. Stitt, P.E.
 Acting ENGINEER OF DESIGN AND ENVIRONMENT

December 9, 20 11
William R. Freyer, Jr.
 Interim DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

CHAMLIN ASSOCIATES
 PERU ILLINOIS MORRIS

PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS

R10-3E SIGN SCHEDULE			
COUNTY	CITY	INTERSECTION	NUMBER OF R10-3E SIGNS REQUIRED
GRUNDY	COAL CITY	IL 113 & BROADWAY ST.	8
	COAL CITY	IL 113 & GARFIELD ST.	4
	MORRIS	US 6 (BEDFORD RD.) & IL 47 (DIVISION ST.) (SOUTH JUNCTION)	4
	MORRIS	US 6 & IL 47 (DIVISION ST.) (NORTH JUNCTION)	2
	MORRIS	IL 47 (DIVISION ST.) & GEORGE ST.	6
	MORRIS	US 6 & LISBON RD.	8
	MORRIS	IL 47 & GORE RD.	4
	MORRIS	IL 47 & I-80 NORTH RAMP	2
	MORRIS	IL 47 & I-80 SOUTH RAMP	2
	STATE	IL 47 & PINE BLUFF RD.	2
KENDALL	PLANO	US 34 & LITTLE ROCK RD	2
LIVINGSTON	PONTIAC	IL 116 (HOWARD ST.) & ELM ST.	8
TOTAL			52



THE CONTRACTOR SHALL SUPPLY AND MOUNT ONE SIGN AT EACH EXISTING PEDESTRIAN PUSH-BUTTON AND THIS SHALL BE INCLUDED IN THE COST OF PEDESTRIAN SIGNAL HEAD PAY ITEM.

TRAFFIC SIGNAL GENERAL NOTES

- THE CONTRACTOR SHALL CONTACT THE APPROPRIATE CITY A MINIMUM OF 72 HOURS PRIOR TO BEGINNING WORK.
 - A. GIBSON CITY 815-784-5872
 - B. PAXTON 217-379-4022
 - C. COAL CITY 815-634-8608
 - D. MORRIS 815-942-0103
 - E. OSWEGO 630-554-3618
 - F. PLANO 630-552-8275
 - G. YORKVILLE 630-553-4350
 - H. FAIRBURY 815-692-2743
 - I. PONTIAC 815-844-6752
- THE TRAFFIC SIGNAL SECTION AT THE ILLINOIS DEPARTMENT OF TRANSPORTATION, DISTRICT 3, SHALL BE NOTIFIED AT 815-434-8506 AT LEAST 72 HOURS PRIOR TO TURNING ON ANY FLASHER OR CONTROLLER UNITS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCED NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123.
- ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 701 OF THE STANDARD SPECIFICATIONS.
- ALL TRAFFIC SIGNAL HEADS SHALL BE 12-INCH POLYCARBONATE.
- TRAFFIC SIGNAL HEADS SHALL BE PROPERLY COVERED PRIOR TO INTERSECTION TURN-ON OR AS DIRECTED BY THE ENGINEER. THIS COST SHALL BE INCLUDED WITH THE COST OF THE ASSOCIATED TRAFFIC SIGNAL PAY ITEMS.
- ALL THREADS OF BOLTS USED IN THE ASSEMBLY OF TRAFFIC SIGNAL COMPONENTS SHALL BE COATED WITH A NON-LEAD BASED ANTI-SEIZE COMPOUND, SIMILAR TO LEAD PLATE, PRIOR TO ASSEMBLY.
- ALL HARDWARE SHALL BE TIGHTENED AND WELL SECURED; CABLES SHALL BE NEATLY WOUND IN HANDHOLES. CABLES SHALL BE NEATLY TRAINED IN THE CONTROLLER CABINET.
- ALL UNINTERRUPTIBLE POWER SUPPLIES SHALL BE EQUIPPED WITH ALPHA GUARD MONITORS.
- CONTRACTOR PERSONNEL AND EQUIPMENT SHALL NOT BE LOCATED WITHIN 50' OF THE CENTERLINE OF ANY RAILROAD TRACK.

APPROVED PROVIDERS FOR LED SIGNAL MODULES ARE:

GENERAL ELECTRIC
DIALIGHT

SEE TABLE FOR PART NUMBERS

DIALIGHT		DIALIGHT	
	PART NO.		PART NO.
RED BALL	433-1210-003XL 433-1270-003XL	RED ARROW	432-1314-001XOD 432-1374-001XOD
YELLOW BALL	433-3230-901XL 433-3270-901XL	YELLOW ARROW	431-3334-901XOD 431-3374-901XOD
GREEN BALL	433-2220-001XL 433-2270-001XL	GREEN ARROW	432-2324-001XOD 432-2374-001XOD
COUNTDOWN PEDESTRIAN	430-6479-001X		

GENERAL ELECTRIC

GENERAL ELECTRIC		GENERAL ELECTRIC	
	PART NO.		PART NO.
RED BALL	DR6-RTFB-77A DR6-RCFB-77A	RED ARROW	DR6-RTAAN-17A
YELLOW BALL	DR6-YTFB-77A DR6-YCFB-77A	YELLOW ARROW	DR6-YTAAN-17A DR6-YTAAN-17A-YX
GREEN BALL	DR6-GTFB-77A DR6-GCFB-77A	GREEN ARROW	DR6-GTAAN-17A DR6-GCAAN-17A
COUNTDOWN PEDESTRIAN	PS7-CFF1-26A-J PS7-CFF1-46A-J		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

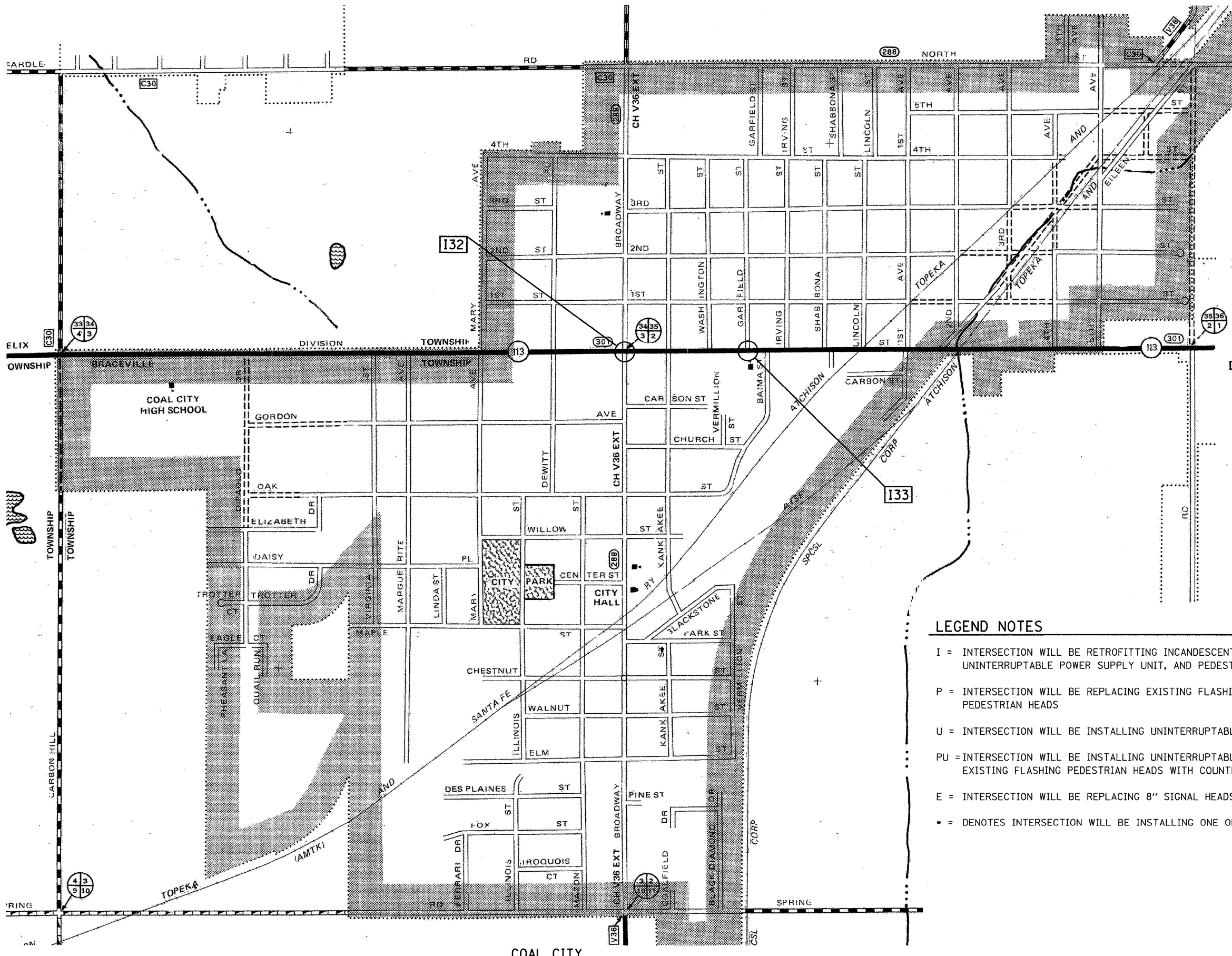
REVIEWED BY: *Gene A. Wucher*
DISTRICT OPERATIONS ENGINEER

DATE: OCTOBER 28, 2011

EXAMINED BY: *Heidi Gray*
DISTRICT CONSTRUCTION ENGINEER

Wayne Phillips
DISTRICT MATERIALS ENGINEER

Don Berman
DISTRICT STUDIES & PLANS ENGINEER



LEGEND
 I32 - IL 113 & BROADWAY ST.
 I33 - IL 113 & GARFIELD ST.

LEGEND NOTES

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- * = DENOTES INTERSECTION WILL BE INSTALLING ONE OR MORE NEW SIGNAL HEADS

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 USER NAME = ---
 PLOT SCALE = N/A
 PLOT DATE = 10/11

DESIGNED - --	REVISED - ---
DRAWN - ARR/NV	REVISED - ---
CHECKED - JKC	REVISED - ---
DATE - 10/11	REVISED - ---

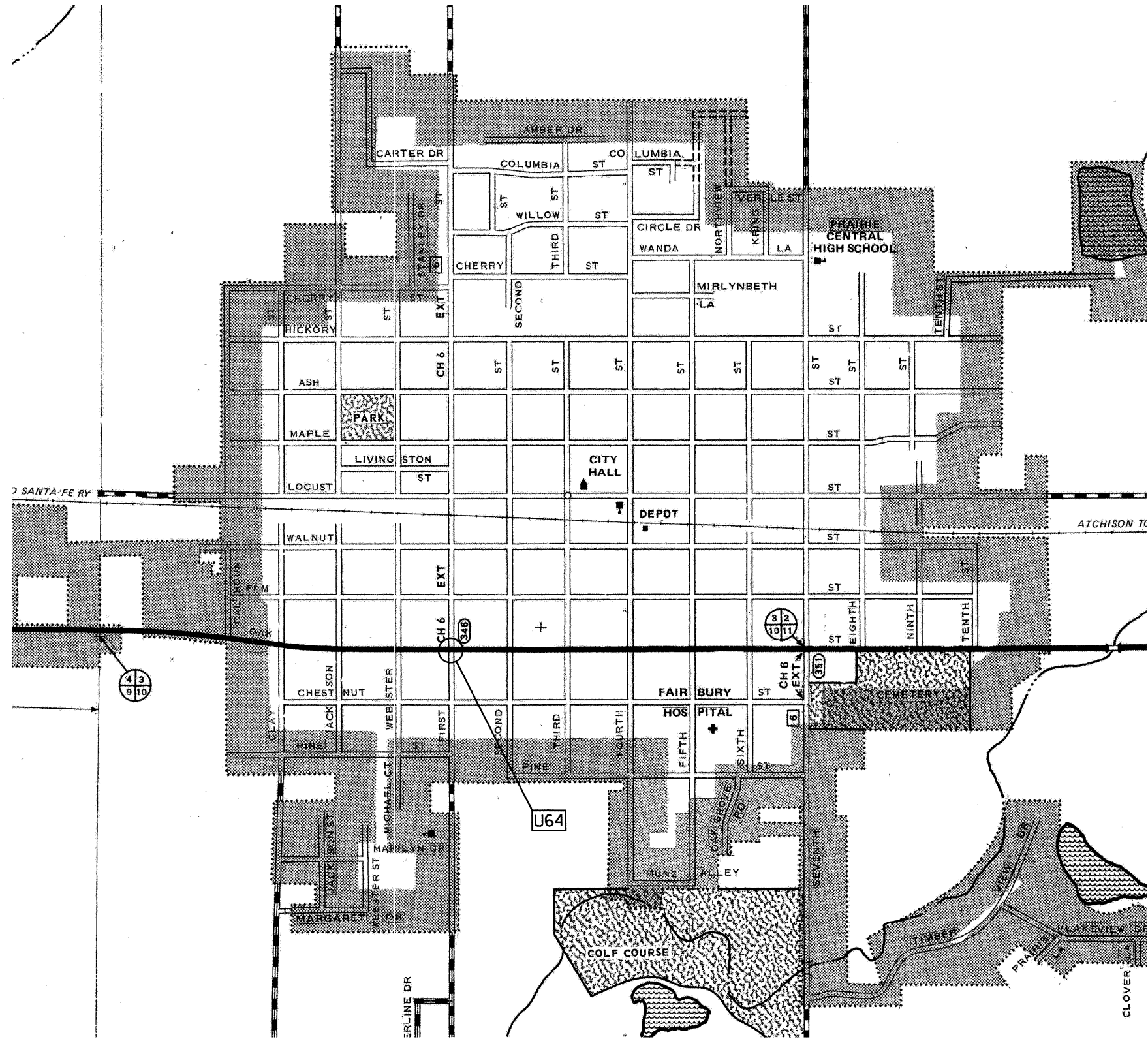
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**INTERSECTION LOCATION MAP
 COAL CITY**

SCALE: N/A SHEET NO. -- OF -- SHEETS STA. ----- TO STA. -----

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	D-3 LED RETROFIT 2012-3	*	29	4
CONTRACT NO. 66B56				
ILLINOIS FED. AID PROJECT				

* FORD, GRUNDY, KENDALL & LIVINGSTON



LEGEND NOTES

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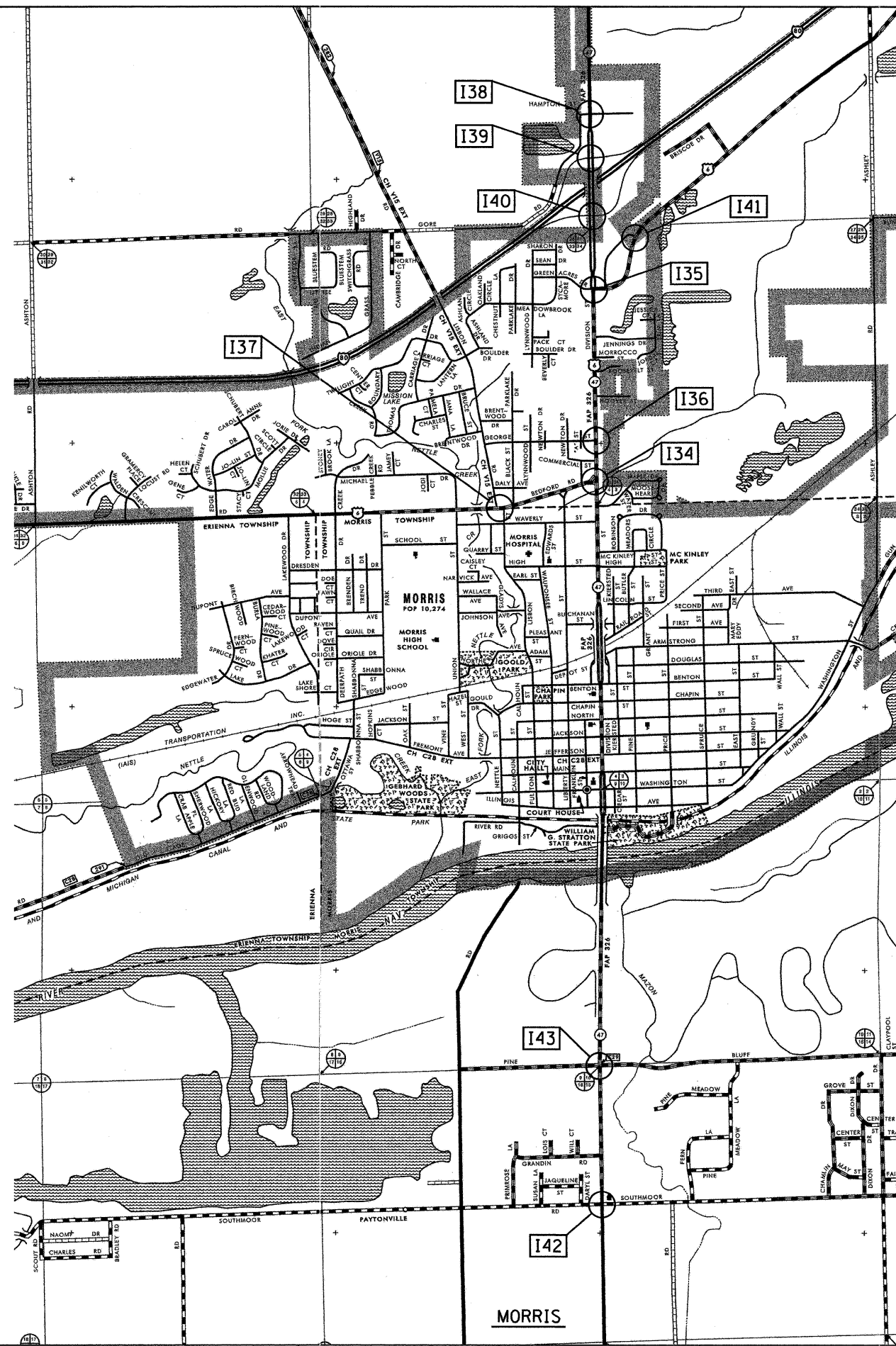
LEGEND

U64 - US 24 (WEST OAK ST.) & CH 6 (FIRST ST.)

FAIRBURY

FILE NAME = D366B56-SHT-LOCATION-MAPS.DGN	USER NAME = --	DESIGNED - --	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERSECTION LOCATION MAP FAIRBURY			F.A. RTE.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = N/A	DRAWN - ARR/NV	REVISED - ---					--	D-3 LED RETROFIT 2012-3	*	29	5
PLOT DATE = 10/11	CHECKED - JKC	DATE - 10/11	REVISED - ---	SCALE: N/A			SHEET NO. -- OF -- SHEETS			STA. _____ TO STA. _____		CONTRACT NO. 66B56
ILLINOIS FED. AID PROJECT												

* FORD, GRUNDY, KENDALL & LIVINGSTON



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LEGEND

- I34 - US 6 (BEDFORD RD.) & IL 47 (DIVISION ST.) (SOUTH JUNCTION)
- I35 - US 6 & IL 47 (DIVISION ST.) (NORTH JUNCTION)
- I36 - IL 47 (DIVISION ST.) & GEORGE ST.
- I37 - US 6 & LISBON RD.
- I38 - IL 47 & GORE RD.
- I39 - IL 47 & I-80 NORTH RAMP
- I40 - IL 47 & I-80 SOUTH RAMP
- I41 - US 6 & MISSION PARKWAY
- I42 - IL 47 & SOUTHMOR RD.
- I43 - IL 47 & PINE BLUFF RD.

FILE NAME = D366B56-SHT-LOCATION-MAPS.DGN

USER NAME = ---

DESIGNED - ---

REVISED - ---

PLOT SCALE = N/A

DRAWN - ARR/NV

REVISED - ---

PLOT DATE = 10/11

CHECKED - JKC

REVISED - ---

DATE - 10/11

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION LOCATION MAP
MORRIS**

SCALE: N/A

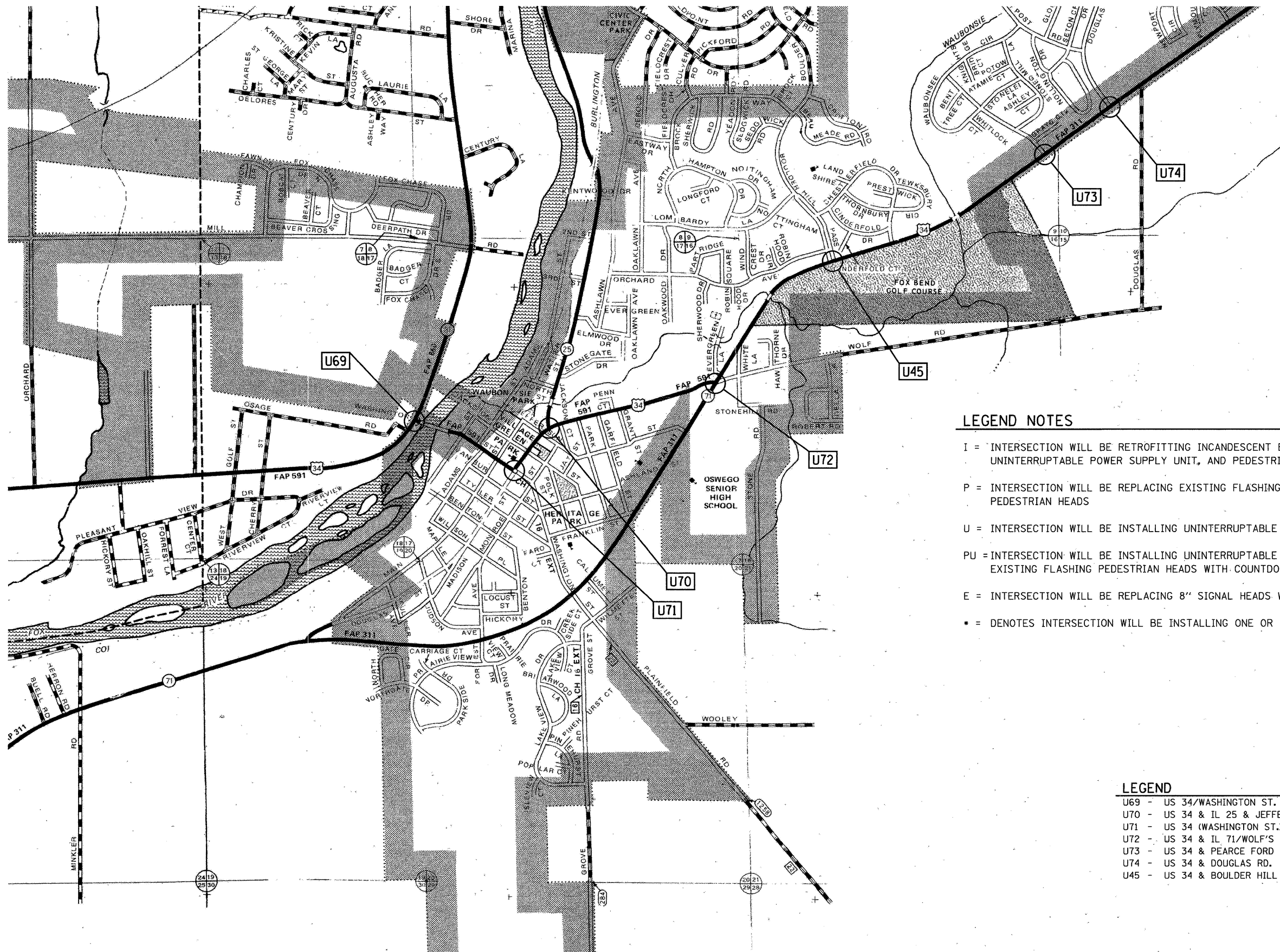
SHEET NO. -- OF -- SHEETS

STA. ----- TO STA. -----

• FORD, GRUNDY, KENDALL & LIVINGSTON

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	D-3 LED RETROFIT 2012-3	•	29	7
CONTRACT NO. 66B56				

ILLINOIS FED. AID PROJECT



OSWEGO

LEGEND NOTES

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LEGEND

- U69 - US 34/WASHINGTON ST. & IL 31
- U70 - US 34 & IL 25 & JEFFERSON ST.
- U71 - US 34 (WASHINGTON ST.) & US 34 (MADISON ST.)
- U72 - US 34 & IL 71/WOLF'S CROSSING
- U73 - US 34 & PEARCE FORD
- U74 - US 34 & DOUGLAS RD.
- U45 - US 34 & BOULDER HILL PASS

FILE NAME =	USER NAME = --
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PLOT SCALE = N/A	
PLOT DATE = 10/11	

DESIGNED - --	REVISED - ---
DRAWN - ARR/NV	REVISED - ---
CHECKED - JKC	REVISED - ---
DATE - 10/11	REVISED - ---

DESIGNED - --	REVISED - ---
DRAWN - ARR/NV	REVISED - ---
CHECKED - JKC	REVISED - ---
DATE - 10/11	REVISED - ---

DESIGNED - --	REVISED - ---
DRAWN - ARR/NV	REVISED - ---
CHECKED - JKC	REVISED - ---
DATE - 10/11	REVISED - ---

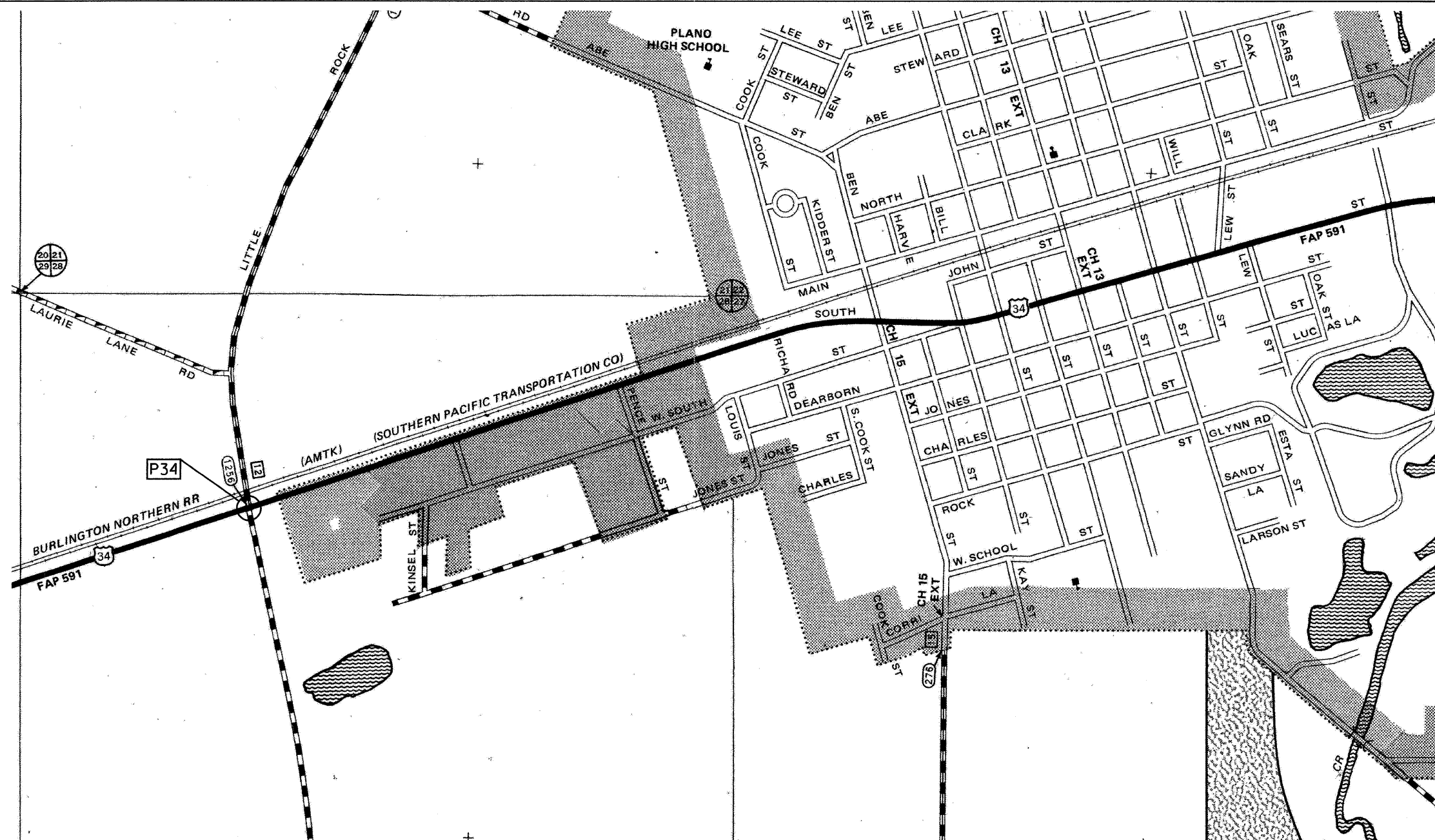
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION LOCATION MAP
OSWEGO**

SCALE: N/A SHEET NO. -- OF -- SHEETS STA. ----- TO STA. -----

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	D-3 LED RETROFIT 2012-3	•	29	8
			CONTRACT NO. 66B56	
ILLINOIS FED. AID PROJECT				

• FORD, GRUNDY, KENDALL & LIVINGSTON



PLANO

LEGEND NOTES

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LEGEND

P34 - US 34 & LITTLE ROCK RD.

FILE NAME = 0366B56-SHT-LOCATION-MAPS.DGN

USER NAME = --
 PLOT SCALE = N/A
 PLOT DATE = 10/11

DESIGNED - --
 DRAWN - ARR/NV
 CHECKED - JKC
 DATE - 10/11

REVISED - ---
 REVISED - ---
 REVISED - ---
 REVISED - ---

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

INTERSECTION LOCATION MAP
 PLANO

SCALE: N/A SHEET NO. -- OF --- SHEETS STA. ----- TO STA. -----

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	D-3 LED RETROFIT 2012-3	*	29	9
CONTRACT NO. 66B56				
ILLINOIS FED. AID PROJECT				

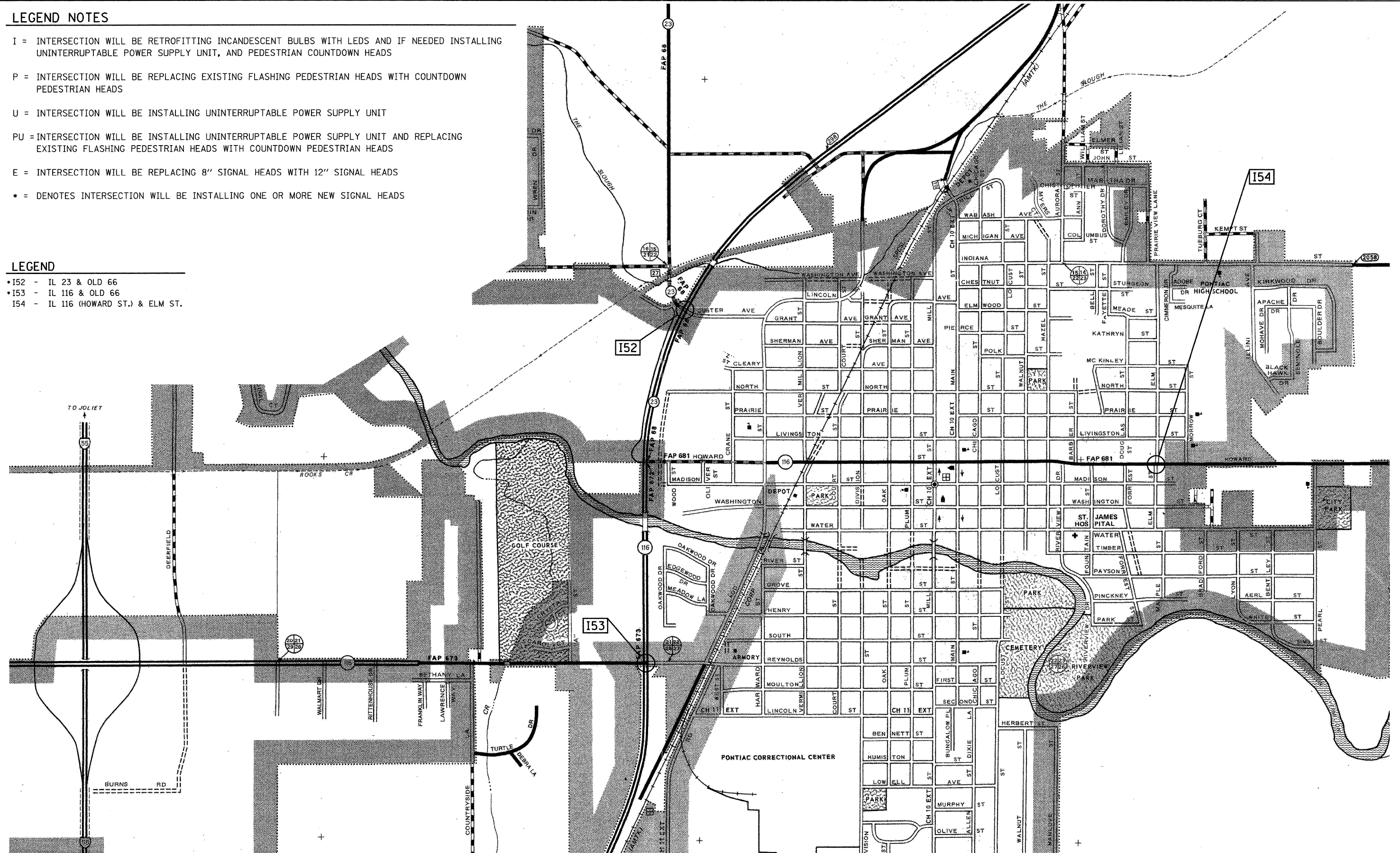
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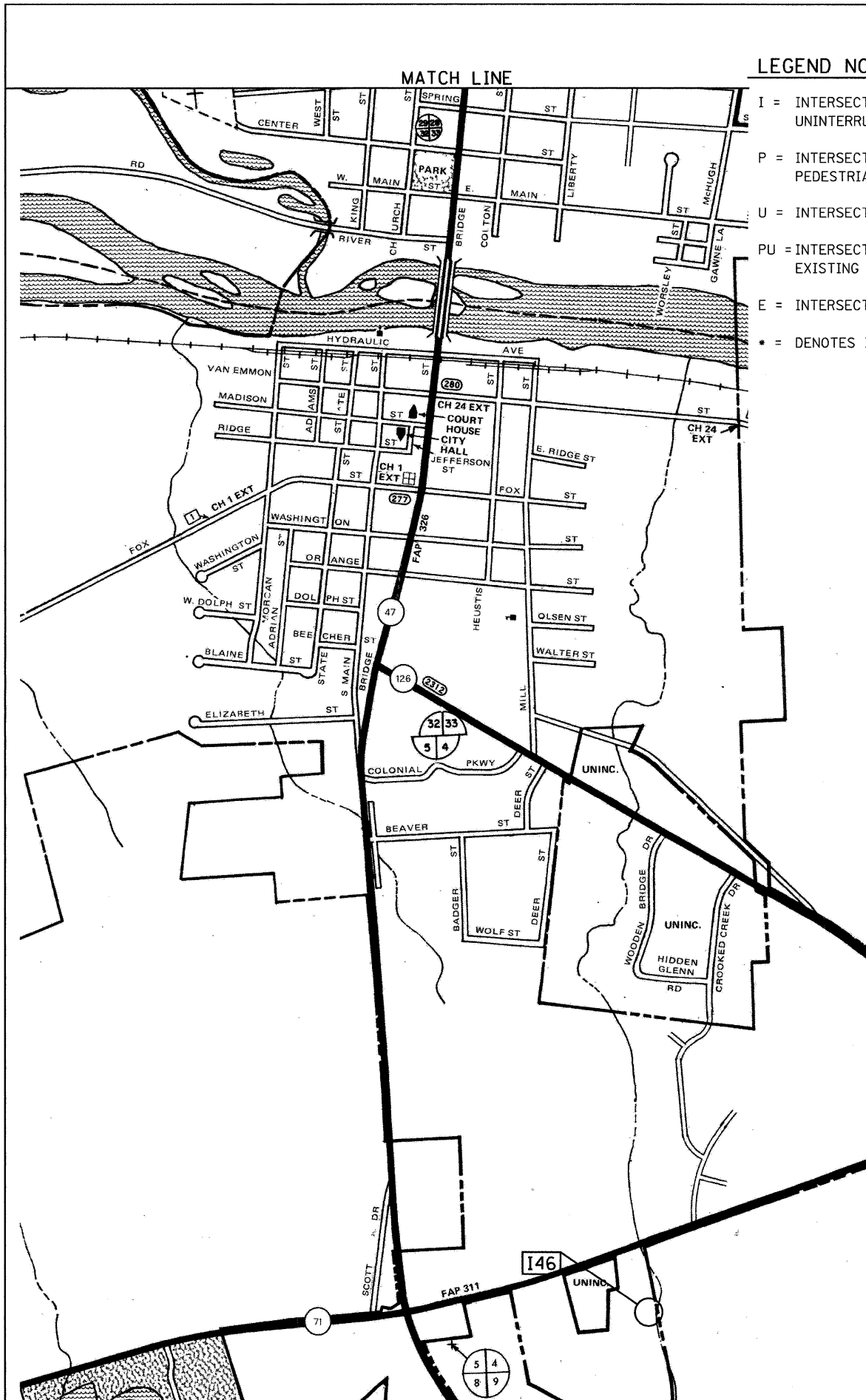
LEGEND

- I52 - IL 23 & OLD 66
- I53 - IL 116 & OLD 66
- I54 - IL 116 (HOWARD ST.) & ELM ST.



PONTIAC

FILE NAME = 0366B56-SHT-LOCATION-MAPS.DGN	USER NAME = --	DESIGNED - --	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERSECTION LOCATION MAP PONTIAC			F.A. RTE. --	SECTION D-3 LED RETROFIT 2012-3	COUNTY *	TOTAL SHEETS 29	SHEET NO. 10
	PLOT SCALE = N/A	DRAWN - ARR/NV	REVISED - ---		SCALE: N/A	SHEET NO. --	OF -- SHEETS	STA. -----	TO STA. -----	CONTRACT NO. 66B56		
	PLOT DATE = 10/11	CHECKED - JKC	REVISED - ---		* FORD, GRUNDY, KENDALL & LIVINGSTON							
		DATE - 10/11	REVISED - ---		ILLINOIS FED. AID PROJECT							

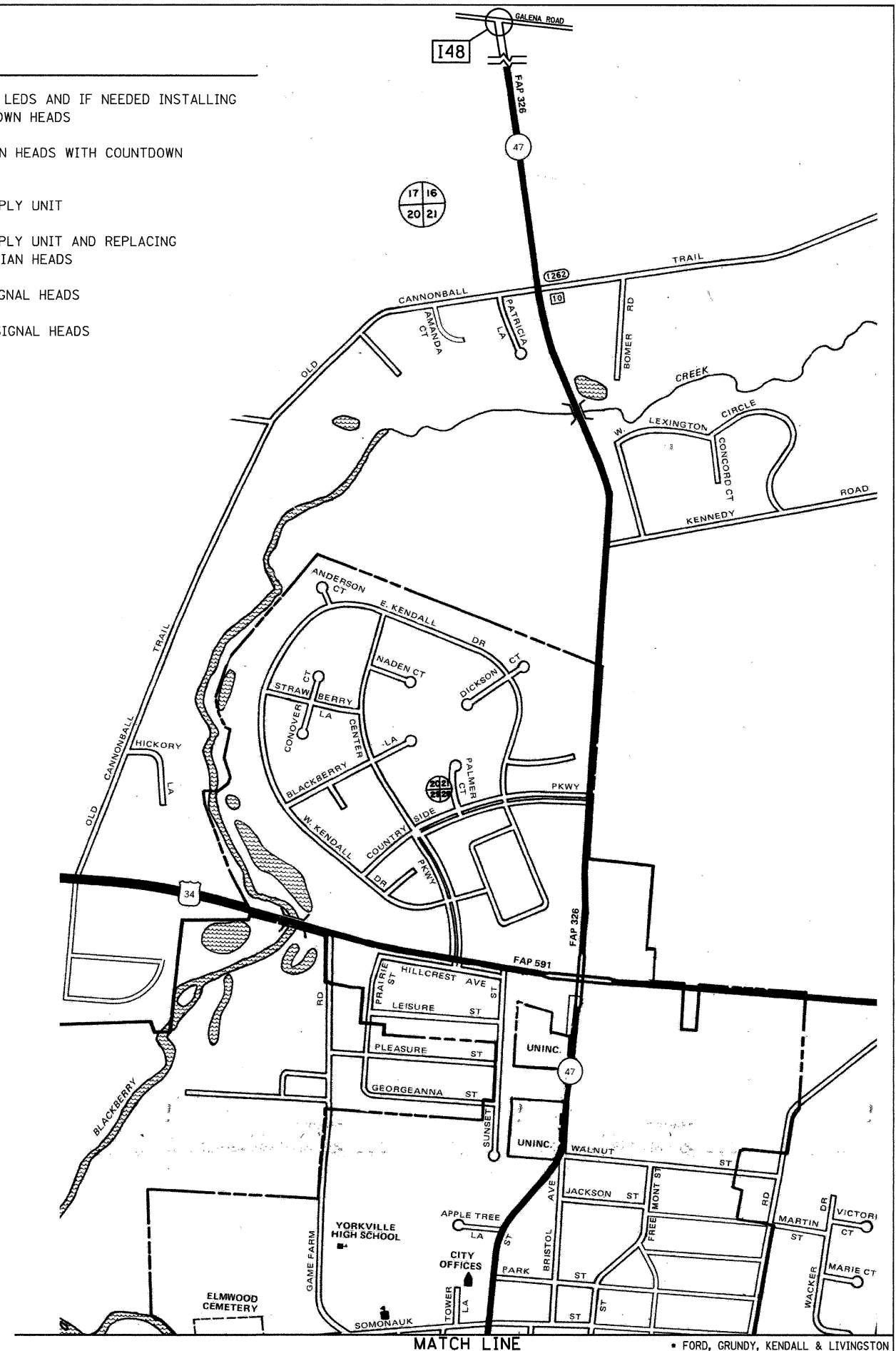


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LEGEND

- I46 - IL 47 & IL 71
- I48 - IL 47 & GALENA RD.



FILE NAME = 0366B56-SHT-LOCATION-MAPS.DGN
 USER NAME = ---
 PLOT SCALE = N/A
 PLOT DATE = 10/11

DESIGNED - ---
 DRAWN - ARR/NV
 CHECKED - JKC
 DATE - 10/11

REVISED - ---
 REVISED - ---
 REVISED - ---
 REVISED - ---

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**INTERSECTION LOCATION MAP
 YORKVILLE**

SCALE: N/A

SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	D-3 LED RETROFIT 2012-3	•	29	11
CONTRACT NO. 66B56				
ILLINOIS FED. AID PROJECT				

		86200300				89502210				
		UNINTERRUPTABLE POWER SUPPLY, EXTENDED				MODIFY EXISTING CONTROLLER CABINET				
COUNTY	CITY	INTERSECTION	95% STATE 5% CITY	100% STATE 0% CITY	97.5% STATE 2.5% CITY	96.7% STATE 3.3% CITY	95% STATE 5% CITY	100% STATE 0% CITY	97.5% STATE 2.5% CITY	96.7% STATE 3.3% CITY
			EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
FORD	GIBSON CITY	IL 9/IL 54 & IL 47/SOUTH SANGAMON AVE.	--	--	1	--	--	--	1	--
	PAXTON	US 45/L 9 AT PELLIS ST.	--	--	1	--	--	--	1	--
LIVINGSTON	FAIRBURY	US 24 (WEST OAK ST.) & CH 6 (FIRST ST.)	1	--	--	--	1	--	--	--
KENDALL	OSWEGO	US 34 & DOUGLAS ROAD	1	--	--	--	1	--	--	--
	OSWEGO	US 34 / WASHINGTON ST. & IL 31	--	--	1	--	--	--	1	--
	OSWEGO	US 34 & L 25 & JEFFERSON ST.	--	--	--	1	--	--	--	1
	OSWEGO	US 34 (WASHINGTON ST.) & US 34 (MADISON ST.)	1	--	--	--	1	--	--	--
	OSWEGO	US 34 & BOULDER HILL PASS	--	--	--	1	--	--	--	1
	OSWEGO	US 34 & IL 71/WOLF'S CROSSING	--	--	1	--	--	--	1	--
	OSWEGO	US 34 & PEARCE FORD	1	--	--	--	1	--	--	--
SUBTOTAL			3	0	2	2	3	0	2	2
COLUMN TOTAL			4	0	4	2	4	0	4	2
TOTAL						10				10

		89502375				
		REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT				
COUNTY	CITY	INTERSECTION & LIST OF EQUIPMENT TO BE REMOVED	95% STATE 5% CITY	100% STATE 0% CITY	97.5% STATE 2.5% CITY	96.7% STATE 3.3% CITY
			EACH	EACH	EACH	EACH
KENDALL	PLANO	US 34 & LITTLE ROCK ROAD	1	--	--	--
		- EXISTING PEDESTRIAN HEADS - 2 EACH				
TOTAL			1	0	0	0

		88102825				
		PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE BRACKET MOUNTED WITH COUNT DOWN TIMER				
COUNTY	CITY	INTERSECTION	95% STATE 5% CITY	100% STATE 0% CITY	97.5% STATE 2.5% CITY	96.7% STATE 3.3% CITY
			EACH	EACH	EACH	EACH
KENDALL	PLANO	US 34 & LITTLE ROCK ROAD	2	--	--	--
	TOTAL			2	0	0

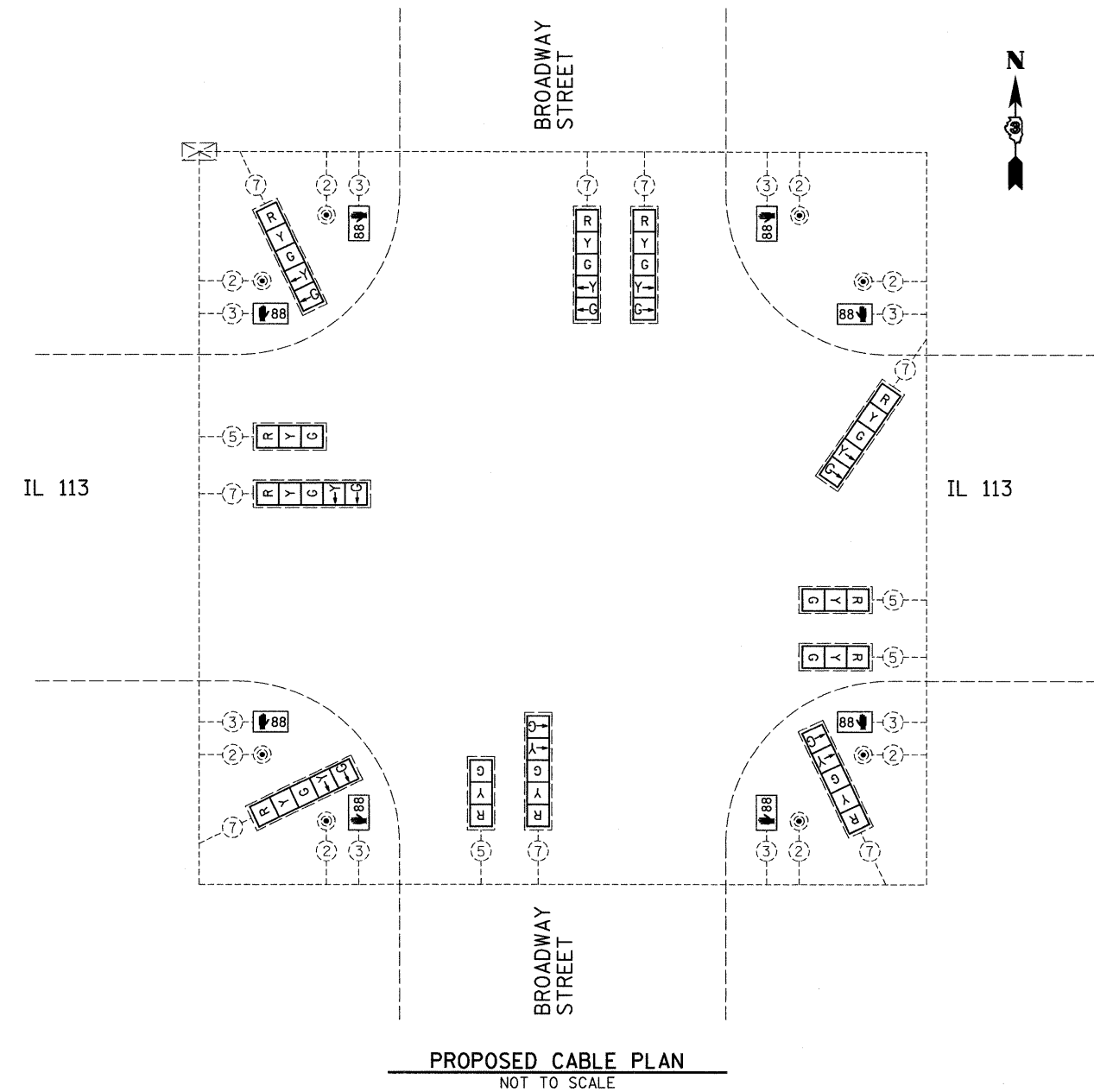
TRAFFIC CONTROL FOR ONE OR MORE LEGS AT EACH INTERSECTION SHALL BE IN ACCORDANCE WITH THE HIGHWAY STANDARD INDICATED			FUNDING		HIGHWAY STANDARD			
COUNTY	CITY	INTERSECTION	STATE	CITY	701501	701502	701606	701701
GRUNDY	COAL CITY	IL 113 & BROADWAY ST.	100.0	0.0	--	X	--	--
		IL 113 & GARFIELD ST.	100.0	0.0	X	--	--	--
	MORRIS	US 6 (BEDFORD RD.) & IL 47 (DIVISION ST.) (SOUTH JUNCTION)	100.0	0.0	--	--	X	X
		US 6 & IL 47 (DIVISION ST.) (NORTH JUNCTION)	100.0	0.0	--	X	X	X
		IL 47 (DIVISION ST.) & GEORGE ST.	100.0	0.0	--	X	X	X
		US 6 & LISBON RD.	100.0	0.0	X	X	--	--
		IL 47 & GORE RD.	100.0	0.0	--	X	X	X
		IL 47 & I-80 NORTH RAMP	100.0	0.0	--	--	X	X
	STATE	IL 47 & I-80 SOUTH RAMP	100.0	0.0	--	X	X	X
		US 6 & MISSION PARKWAY	100.0	0.0	--	X	X	X
IL 47 & SOUTHMOR RD.		100.0	0.0	X	--	X	X	
IL 47 & PINE BLUFF RD.		100.0	0.0	X	X	X	X	
KENDALL	PLANO	US 34 & LITTLE ROCK ROAD	100.0	0.0	--	X	X	
	YORKVILLE	IL 47 & IL 71	100.0	0.0	--	X	--	
LIVINGSTON	PONTIAC	IL 47 & GALENA RD.	100.0	0.0	X	X	--	
		IL 23 & OLD 66	100.0	0.0	X	X	X	
		IL 116 & OLD 66	100.0	0.0	--	X	X	
		IL 116 (HOWARD ST.) & ELM ST.	100.0	0.0	--	X	--	

ELECTRICAL LOAD FOR INTERSECTION				
STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURNTIME %
IL 113	RED	5	7	35
	YELLOW	5	12	5
	GREEN	5	9.5	60
	YELLOW ARROW LT.	2	6	5
	GREEN ARROW LT.	2	6	10
		4	11/10	50/50
BROADWAY STREET	RED	7	7	60
	YELLOW	7	12	5
	GREEN	7	9.5	35
	YELLOW ARROW LT.	4	6	5
	GREEN ARROW LT.	4	6	10
	YELLOW ARROW RT.	2	6	5
	GREEN ARROW RT.	2	6	10
		4	11/10	50/50
TRAFFIC SIGNAL CABINET	CONTROLLER	1	6	100
	UPS	1	50	100

THERE MAY BE ADDITIONAL ELECTRICAL LOADS DUE TO LIGHTING AND EMERGENCY VEHICLE DETECTION EQUIPMENT.
 AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
 VILLAGE OF COAL CITY

CONSTRUCTION NOTES:

- MODIFY EXISTING CONTROLLER CABINET.
- INSTALL UNINTERRUPTABLE POWER SUPPLY.
- RETROFIT THE FOUR (4) 3-SECTION HEADS WITH LED SIGNAL HEADS.
- RETROFIT THE EIGHT (8) 5-SECTION HEADS WITH LED SIGNAL HEADS.
- REMOVE AND REPLACE EIGHT (8) PEDESTRIAN HEADS WITH LED PEDESTRIAN HEADS WITH COUNT DOWN TIMERS.
- REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
 8 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED



SCHEDULE OF QUANTITIES (95% STATE / 5% CITY)

COAL CITY IL 113 & BROADWAY ST.

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	8
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
Z0033002	LED SIGNAL FACE RETROFIT, RED BALL	EACH	12
Z0033004	LED SIGNAL FACE RETROFIT, GREEN BALL	EACH	12
Z0033008	LED SIGNAL FACE RETROFIT, YELLOW BALL	EACH	12
Z0033010	LED SIGNAL FACE RETROFIT, YELLOW ARROW	EACH	8
Z0033012	LED SIGNAL FACE RETROFIT, GREEN ARROW	EACH	8

PROPOSED CABLE PLAN
NOT TO SCALE

TRAFFIC SIGNALS LEGEND

	DENOTES NUMBER OF EXISTING CONDUCTORS
	EXISTING CONTROLLER AND CABINET
	SIGNAL SECTION 12"
	LEFT TURN YELLOW
	LEFT TURN GREEN
	RIGHT TURN YELLOW
	RIGHT TURN GREEN
	EXISTING PEDESTRIAN PUSH BUTTON
	PROPOSED WALK/DON'T WALK WITH COUNT DOWN TIMER
	RETROFIT EXISTING TRAFFIC SIGNAL WITH LED HEADS

FILE NAME = 0368856-SHT-TS-CABLE-COALCITY-IL113-BROADWAY.DGN

USER NAME = ---

DESIGNED - --

REVISED - ---

PLOT SCALE = 1" = 20'

DRAWN - ARR/NV

REVISED - ---

PLOT DATE = 10/11

CHECKED - JKC

REVISED - ---

DATE - 10/11

REVISED - ---

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN
COAL CITY - IL 113 & BROADWAY STREET

* FORD, GRUNDY, KENDALL & LIVINGSTON

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	D-3 LED RETROFIT 2012-3	*	29	13

SCALE: 1" = 20' SHEET NO. -- OF -- SHEETS STA. ----- TO STA. -----

CONTRACT NO. 66B56

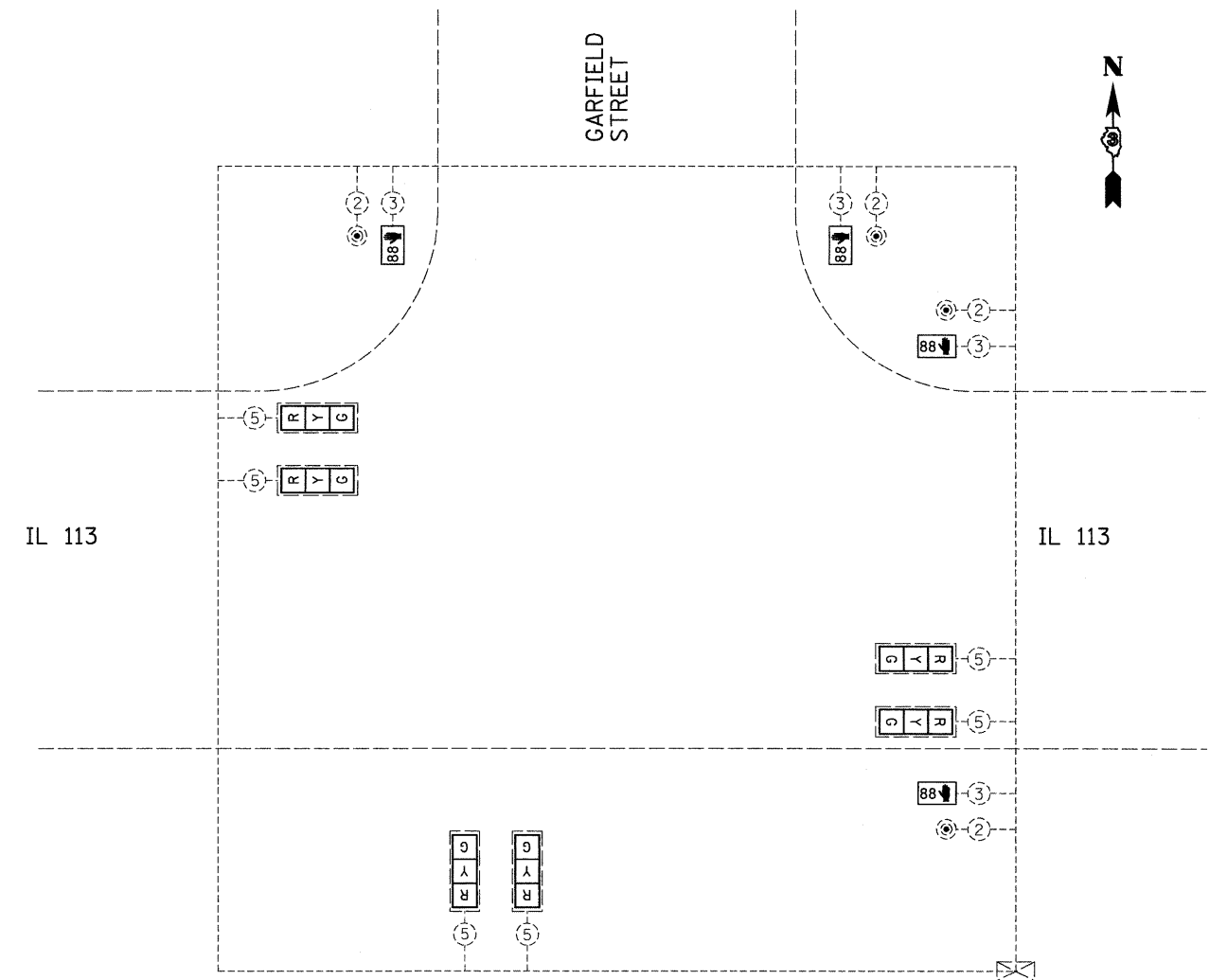
ILLINOIS FED. AID PROJECT

ELECTRICAL LOAD FOR INTERSECTION				
STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURNTIME %
IL 113	RED	4	7	35
	YELLOW	4	12	5
	GREEN	4	9.5	60
		2	11/10	50/50
		2	8	50
GARFIELD STREET	RED	2	7	60
	YELLOW	2	12	5
	GREEN	2	9.5	35
		2	11/10	50/50
		2	8	50
TRAFFIC SIGNAL CABINET	CONTROLLER	1	6	100
	UPS	1	50	100

THERE MAY BE ADDITIONAL ELECTRICAL LOADS DUE TO LIGHTING AND EMERGENCY VEHICLE DETECTION EQUIPMENT.
 AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
 VILLAGE OF COAL CITY

CONSTRUCTION NOTES:

- MODIFY EXISTING CONTROLLER CABINET.
- INSTALL UNINTERRUPTABLE POWER SUPPLY.
- RETROFIT THE SIX (6) 3-SECTION HEADS WITH LED SIGNAL HEADS.
- REMOVE AND REPLACE FOUR (4) PEDESTRIAN HEADS WITH LED PEDESTRIAN HEADS WITH COUNT DOWN TIMERS.
- REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
 4 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED



PROPOSED CABLE PLAN
 NOT TO SCALE

SCHEDULE OF QUANTITIES (96.7% STATE / 3.3% CITY)

COAL CITY IL 113 & GARFIELD ST.		UNIT	TOTAL QUANTITY
ITEM NO.	DESCRIPTION		
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	4
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
Z0033002	LED SIGNAL FACE RETROFIT, RED BALL	EACH	6
Z0033004	LED SIGNAL FACE RETROFIT, GREEN BALL	EACH	6
Z0033008	LED SIGNAL FACE RETROFIT, YELLOW BALL	EACH	6

TRAFFIC SIGNALS LEGEND

	DENOTES NUMBER OF EXISTING CONDUCTORS
	EXISTING CONTROLLER AND CABINET
	SIGNAL SECTION 12"
	EXISTING PEDESTRIAN PUSH BUTTON
	PROPOSED WALK/DON'T WALK WITH COUNT DOWN TIMER
	RETROFIT EXISTING TRAFFIC SIGNAL WITH LED HEADS

FILE NAME = 0366856-SHT-TS-CABLE-COALCITY-IL113-GARFIELD.DGN

USER NAME = --

DESIGNED - --

REVISED - ---

PLOT SCALE = 1" = 20'

DRAWN - ARR/NV

REVISED - ---

PLOT DATE = 10/11

CHECKED - JKC

REVISED - ---

DATE - 10/11

REVISED - ---

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL CABLE PLAN
 COAL CITY - IL 113 & GARFIELD STREET**

* FORD, GRUNDY, KENDALL & LIVINGSTON

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	D-3 LED RETROFIT 2012-3	*	29	14

SCALE: 1" = 20' SHEET NO. -- OF -- SHEETS STA. ----- TO STA. -----

CONTRACT NO. 66B56

ILLINOIS FED. AID PROJECT

ELECTRICAL LOAD FOR INTERSECTION

STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURNTIME %
US 6 / IL 47	RED	9	7	50
	YELLOW	9	12	5
	GREEN	9	9.5	45
	YELLOW ARROW LT.	2	6	5
	GREEN ARROW LT.	2	6	10
	YELLOW ARROW RT.	2	6	5
	GREEN ARROW RT.	2	6	10
		4	11/10	50/50
		4	8	50
TRAFFIC SIGNAL CABINET	CONTROLLER	1	6	100
	UPS	1	50	100

THERE MAY BE ADDITIONAL ELECTRICAL LOADS DUE TO LIGHTING AND EMERGENCY VEHICLE DETECTION EQUIPMENT.
 AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
 STATE OF ILLINOIS

CONSTRUCTION NOTES:

- MODIFY EXISTING CONTROLLER CABINET.
- INSTALL UNINTERRUPTABLE POWER SUPPLY.
- RETROFIT THE FIVE (5) 3-SECTION HEADS WITH LED SIGNAL HEADS.
- REMOVE AND REPLACE FOUR (4) 4-SECTION HEADS WITH LED 5-SECTION HEADS.
- REMOVE AND REPLACE FOUR (4) PEDESTRIAN HEADS WITH LED PEDESTRIAN HEADS WITH COUNT DOWN TIMERS.
- REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
 - 3 EACH - SIGNAL HEAD, 1-FACE, 4-SECTION, BRACKET MOUNTED
 - 1 EACH - SIGNAL HEAD, 1-FACE, 4-SECTION, MAST ARM MOUNTED
 - 4 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED

THE RED BALLS OF THE NEW MAST ARM MOUNTED 5-SECTION SIGNAL HEADS SHALL BE POSITIONED TO MATCH THE EXISTING LOCATION OR TO PROVIDE 16' MINIMUM VERTICAL CLEARANCE, WHICHEVER IS GREATER.

BRACKET MOUNTED SIGNAL HEADS SHALL MATCH EXISTING LOCATION.

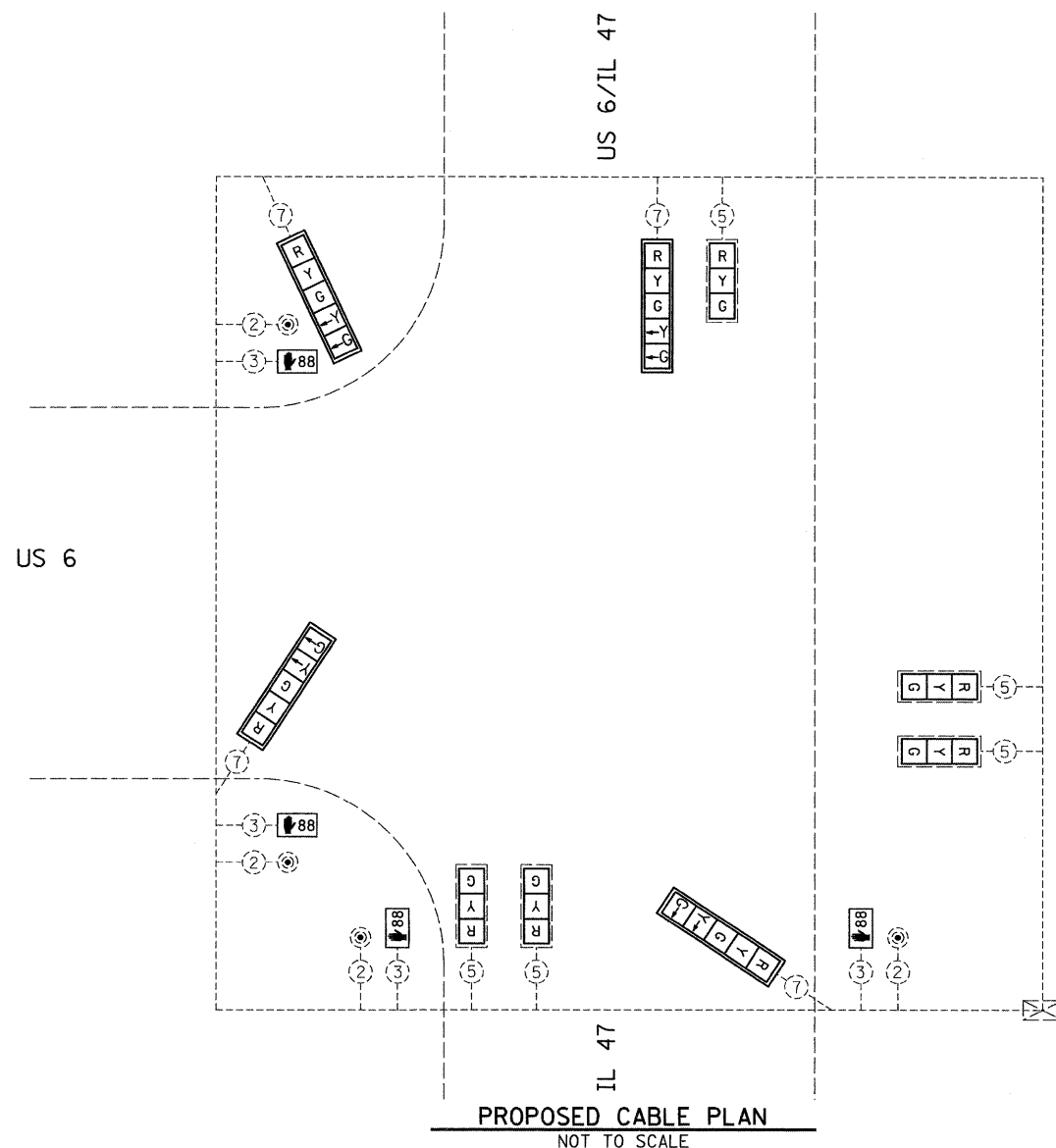
THE EXISTING MAST ARM MOUNTED 3-SECTION SIGNAL HEAD FOR NORTHBOUND US 6/IL 47 TRAFFIC SHALL BE ADJUSTED VERTICALLY SO THAT IT'S RED BALL LINES UP WITH THE RED BALL OF THE NEW 5-SECTION SIGNAL HEAD. THIS WORK WILL REQUIRE ALTERATION OR REPLACEMENT OF COMPONENTS OF THE MOUNTING SYSTEM TO ALLOW FOR AND TO CLOSE OPENINGS FOR WIRING. THIS WORK WILL BE PAID FOR AS RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT.

HOLES IN TRAFFIC SIGNAL POSTS OR MAST ARM POLES RESULTING FROM REMOVAL OF 4-SECTION SIGNAL HEADS SHALL BE COVERED WITH STAINLESS STEEL PLATES AND MOUNTING HARDWARE. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.

SCHEDULE OF QUANTITIES (100% STATE / 0% CITY)

MORRIS US 6 (BEDFORD RD.) & IL 47 (DIVISON ST.) (SOUTH JUNCTION)

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	4
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	4
89501250	RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
Z0033002	LED SIGNAL FACE RETROFIT, RED BALL	EACH	5
Z0033004	LED SIGNAL FACE RETROFIT, GREEN BALL	EACH	5
Z0033008	LED SIGNAL FACE RETROFIT, YELLOW BALL	EACH	5



PROPOSED CABLE PLAN
NOT TO SCALE

TRAFFIC SIGNALS LEGEND

	DENOTES NUMBER OF EXISTING CONDUCTORS
	EXISTING CONTROLLER AND CABINET
	SIGNAL SECTION 12"
	LEFT TURN YELLOW
	LEFT TURN GREEN
	RIGHT TURN YELLOW
	RIGHT TURN GREEN
	EXISTING PEDESTRIAN PUSH BUTTON
	PROPOSED WALK/DON'T WALK WITH COUNT DOWN TIMER
	TRAFFIC SIGNAL BACKPLATE
	RETROFIT EXISTING TRAFFIC SIGNAL WITH LED HEADS

FILE NAME = 036856-SHT-TS-CABLE-MORRIS-US6-IL47-SOUTH.DGN

USER NAME = --
 PLOT SCALE = 1" = 20'
 PLOT DATE = 10/11

DESIGNED - --
 DRAWN - ARR/NV
 CHECKED - JKC
 DATE - 10/11

REVISED - ---
 REVISED - ---
 REVISED - ---
 REVISED - ---

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN
 MORRIS - US 6 & IL 47 (SOUTH INTERSECTION)

SCALE: 1" = 20' SHEET NO. -- OF --- SHEETS STA. ----- TO STA. -----

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	D-3 LED RETROFIT 2012-3	*	29	15

CONTRACT NO. 66B56
 ILLINOIS FED. AID PROJECT

* FORD, GRUNDY, KENDALL & LIVINGSTON

ELECTRICAL LOAD FOR INTERSECTION				
STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURNTIME %
US 6 / IL 47	RED	7	7	35
	YELLOW	7	12	5
	GREEN	7	9.5	60
	YELLOW ARROW LT.	4	6	5
	GREEN ARROW LT.	4	6	10
	YELLOW ARROW RT.	1	6	5
	GREEN ARROW RT.	1	6	10
GREEN ACRES/ US 6	RED	7	7	60
	YELLOW	7	12	5
	GREEN	7	9.5	35
	YELLOW ARROW LT.	4	6	5
	GREEN ARROW LT.	4	6	10
	YELLOW ARROW RT.	2	6	5
	GREEN ARROW RT.	2	6	10
	88	2	11/10	50/50
TRAFFIC SIGNAL CABINET	CONTROLLER	1	6	100
	UPS	1	50	100

THERE MAY BE ADDITIONAL ELECTRICAL LOADS DUE TO LIGHTING AND EMERGENCY VEHICLE DETECTION EQUIPMENT.
AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
CITY OF MORRIS

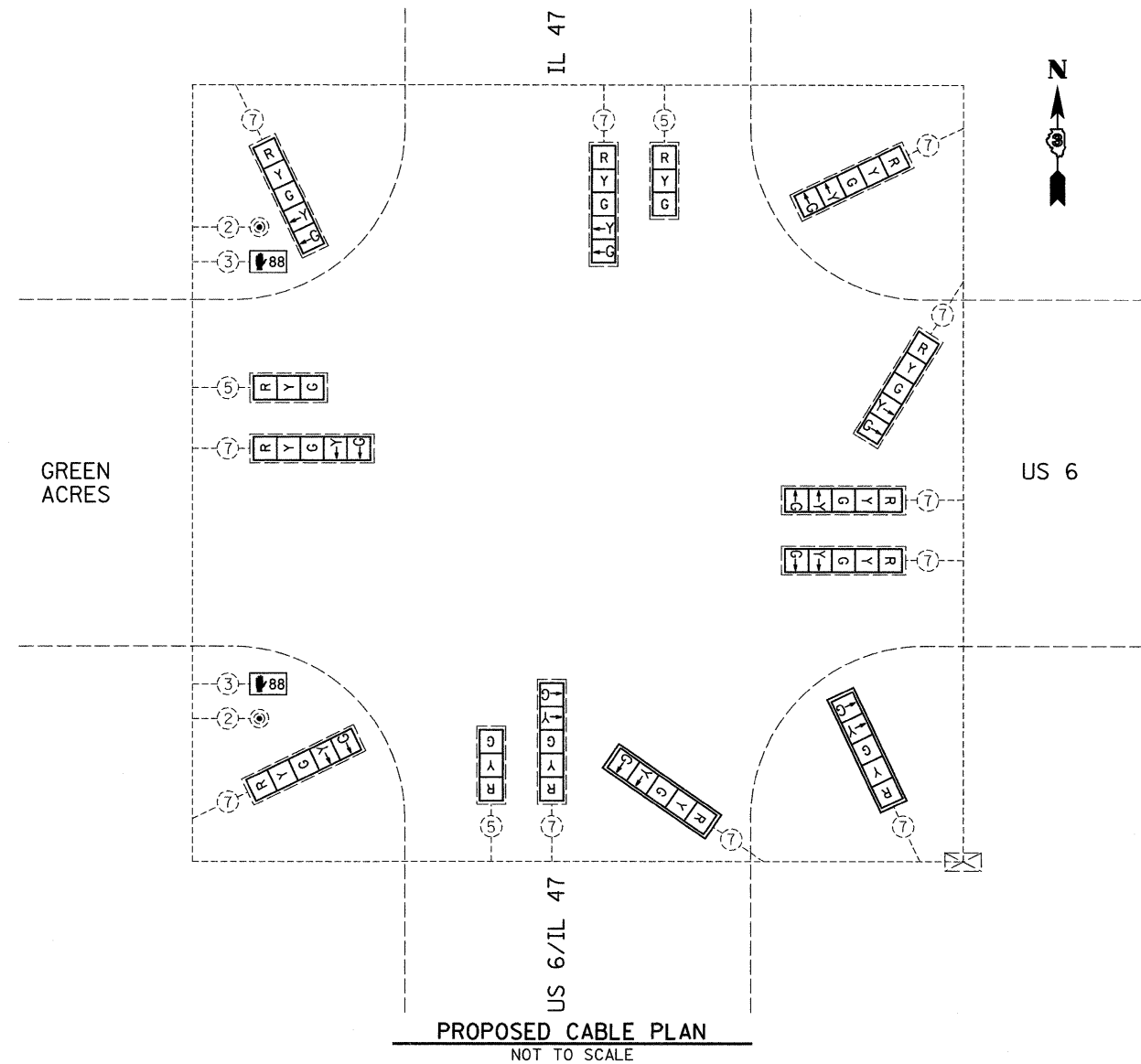
CONSTRUCTION NOTES:

- MODIFY EXISTING CONTROLLER CABINET.
- INSTALL UNINTERRUPTABLE POWER SUPPLY.
- RETROFIT THE THREE (3) 3-SECTION HEADS WITH LED SIGNAL HEADS.
- RETROFIT THE NINE (9) 5-SECTION HEADS WITH LED SIGNAL HEADS.
- REMOVE AND REPLACE TWO (2) 4-SECTION HEADS WITH LED 5-SECTION HEADS.
- REMOVE AND REPLACE TWO (2) PEDESTRIAN HEADS WITH LED PEDESTRIAN HEADS WITH COUNT DOWN TIMERS.
- REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
2 EACH - SIGNAL HEAD, 1-FACE, 4-SECTION, BRACKET MOUNTED
2 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED

THE RED BALLS OF THE NEW MAST ARM MOUNTED 5-SECTION SIGNAL HEADS SHALL BE POSITIONED TO MATCH THE EXISTING LOCATION OR TO PROVIDE 16' MINIMUM VERTICAL CLEARANCE, WHICHEVER IS GREATER.

BRACKET MOUNTED SIGNAL HEADS SHALL MATCH EXISTING LOCATION.

HOLES IN TRAFFIC SIGNAL POSTS OR MAST ARM POLES RESULTING FROM REMOVAL OF 4-SECTION SIGNAL HEADS SHALL BE COVERED WITH STAINLESS STEEL PLATES AND MOUNTING HARDWARE. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.



SCHEDULE OF QUANTITIES (97.5% STATE / 2.5% CITY)

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	2
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	2
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
Z0033002	LED SIGNAL FACE RETROFIT, RED BALL	EACH	12
Z0033004	LED SIGNAL FACE RETROFIT, GREEN BALL	EACH	12
Z0033008	LED SIGNAL FACE RETROFIT, YELLOW BALL	EACH	12
Z0033010	LED SIGNAL FACE RETROFIT, YELLOW ARROW	EACH	9
Z0033012	LED SIGNAL FACE RETROFIT, GREEN ARROW	EACH	9

TRAFFIC SIGNALS LEGEND	
	DENOTES NUMBER OF EXISTING CONDUCTORS
	EXISTING CONTROLLER AND CABINET
	SIGNAL SECTION 12"
	LEFT TURN YELLOW
	LEFT TURN GREEN
	RIGHT TURN YELLOW
	RIGHT TURN GREEN
	EXISTING PEDESTRIAN PUSH BUTTON
	PROPOSED WALK/DON'T WALK WITH COUNT DOWN TIMER
	TRAFFIC SIGNAL BACKPLATE
	RETROFIT EXISTING TRAFFIC SIGNAL WITH LED HEADS

FILE NAME = 0366856-SHT-TS-CABLE-MORRIS-US6-IL47-NORTH.DGN

USER NAME = --

DESIGNED - --

REVISED - ---

PLOT SCALE = 1" = 20'

DRAWN - ARR/NV

REVISED - ---

PLOT DATE = 10/11

CHECKED - JKC

REVISED - ---

DATE - 10/11

REVISED - ---

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN
MORRIS - US 6 & IL 47 (NORTH INTERSECTION)

SCALE: 1" = 20' SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	D-3 LED RETROFIT 2012-3	*	29	16
CONTRACT NO. 66B56				

* FORD, GRUNDY, KENDALL & LIVINGSTON

ILLINOIS FED. AID PROJECT

ELECTRICAL LOAD FOR INTERSECTION				
STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURNTIME %
US 6 / IL 47	RED	5	7	35
	YELLOW	5	12	5
	GREEN	5	9.5	60
	YELLOW ARROW LT.	2	6	5
	GREEN ARROW LT.	2	6	10
		4	11/10	50/50
GEORGE STREET	RED	4	7	60
	YELLOW	4	12	5
	GREEN	4	9.5	35
		2	11/10	50/50
		2	8	50
TRAFFIC SIGNAL CABINET	CONTROLLER	1	6	100
	UPS	1	50	100

THERE MAY BE ADDITIONAL ELECTRICAL LOADS DUE TO LIGHTING AND EMERGENCY VEHICLE DETECTION EQUIPMENT.
 AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
 CITY OF MORRIS

CONSTRUCTION NOTES:

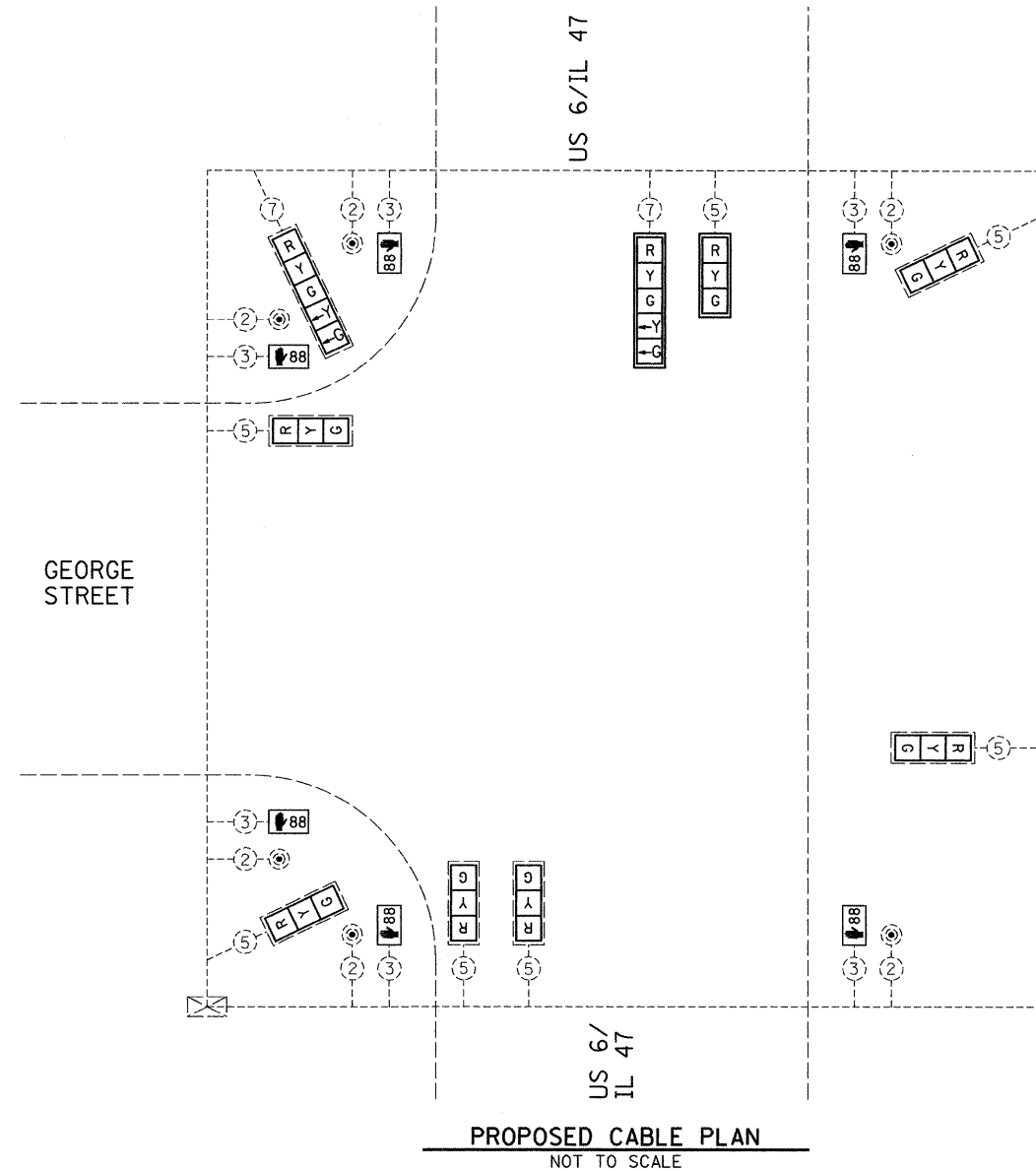
- MODIFY EXISTING CONTROLLER CABINET.
- INSTALL UNINTERRUPTABLE POWER SUPPLY.
- RETROFIT THE SIX (6) 3-SECTION HEADS WITH LED SIGNAL HEADS.
- RETROFIT THE ONE (1) 5-SECTION HEADS WITH LED SIGNAL HEADS.
- REMOVE THE 5-SECTION AND THE 3-SECTION OPTICALLY PROGRAMMED SIGNAL HEADS FROM THE NORTHBOUND MAST ARM AND REPLACE WITH AN LED 5-SECTION HEAD AND AN LED 3-SECTION HEAD.
- REMOVE AND REPLACE SIX (6) PEDESTRIAN HEADS WITH LED PEDESTRIAN HEADS WITH COUNT DOWN TIMERS.
- REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
 - 1 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED
 - 1 EACH - SIGNAL HEAD, 1-FACE, 5-SECTION, MAST ARM MOUNTED
 - 6 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED

THE RED BALLS OF THE NEW MAST ARM MOUNTED 5-SECTION SIGNAL HEADS SHALL BE POSITIONED TO MATCH THE EXISTING LOCATION OR TO PROVIDE 16' MINIMUM VERTICAL CLEARANCE, WHICHEVER IS GREATER.

SCHEDULE OF QUANTITIES (96.7% STATE / 3.3% CITY)

MORRIS IL 47 (DIVISION ST.) & GEORGE ST.

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	1
88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	6
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	2
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
Z0033002	LED SIGNAL FACE RETROFIT, RED BALL	EACH	7
Z0033004	LED SIGNAL FACE RETROFIT, GREEN BALL	EACH	7
Z0033008	LED SIGNAL FACE RETROFIT, YELLOW BALL	EACH	7
Z0033010	LED SIGNAL FACE RETROFIT, YELLOW ARROW	EACH	1
Z0033012	LED SIGNAL FACE RETROFIT, GREEN ARROW	EACH	1



TRAFFIC SIGNALS LEGEND

	DENOTES NUMBER OF EXISTING CONDUCTORS
	EXISTING CONTROLLER AND CABINET
	SIGNAL SECTION 12"
	LEFT TURN YELLOW
	LEFT TURN GREEN
	OPTICALLY PROGRAMMED SIGNAL
	EXISTING PEDESTRIAN PUSH BUTTON
	PROPOSED WALK/DON'T WALK WITH COUNT DOWN TIMER
	TRAFFIC SIGNAL BACKPLATE
	RETROFIT EXISTING TRAFFIC SIGNAL WITH LED HEADS

FILE NAME = 0368856-SHT-TS-CABLE-MORRIS-US6-IL47-GEORGE.DGN

USER NAME = --
 PLOT SCALE = 1" = 20'
 PLOT DATE = 10/11

DESIGNED - --
 DRAWN - ARR/NV
 CHECKED - JKC
 DATE - 10/11

REVISED - ---
 REVISED - ---
 REVISED - ---
 REVISED - ---

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL CABLE PLAN
 MORRIS - US 6 /IL 47 & GEORGE STREET**

SCALE: 1" = 20' SHEET NO. -- OF --- SHEETS STA. ----- TO STA. -----

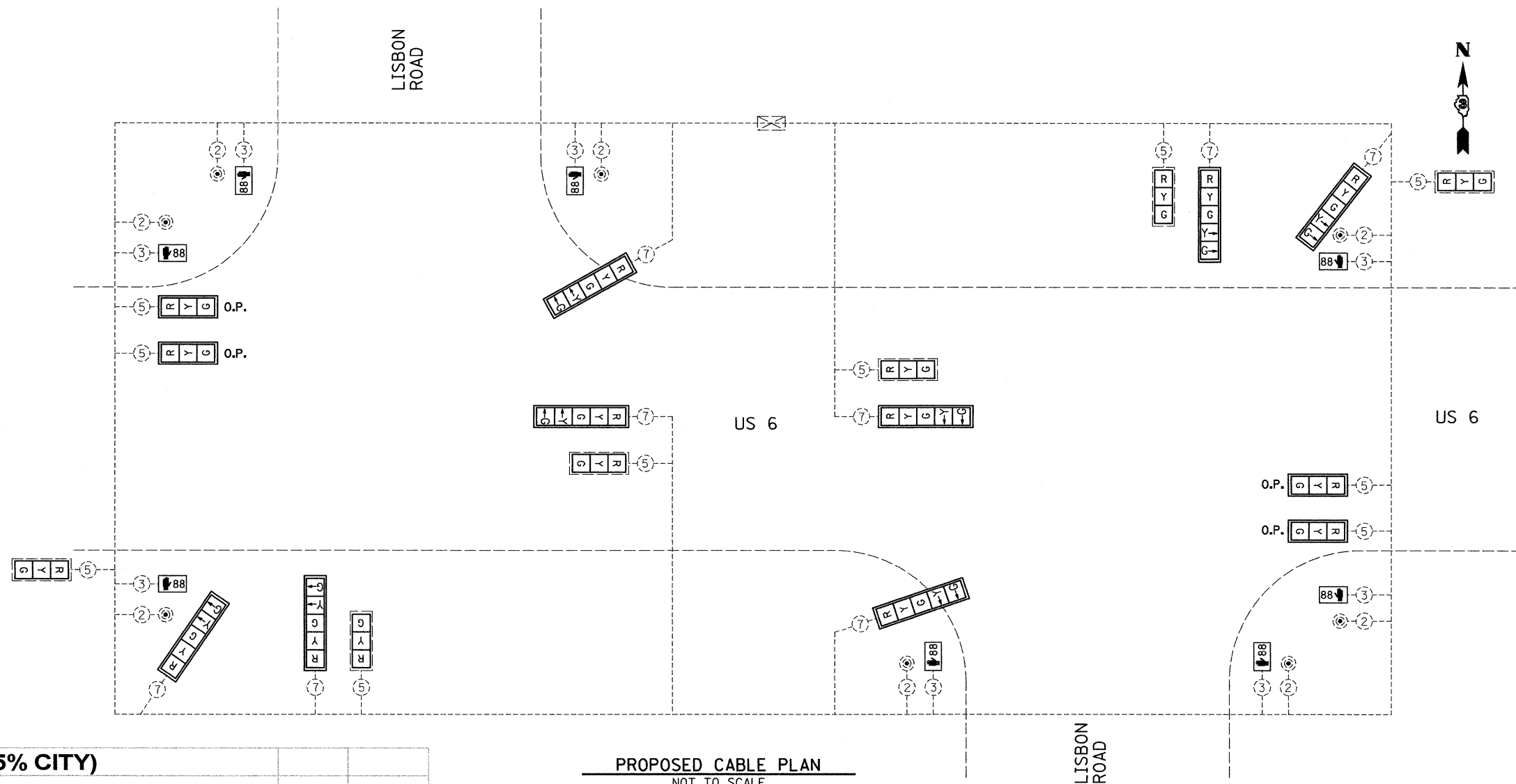
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	D-3 LED RETROFIT 2012-3	*	29	17
			CONTRACT NO. 66B56	

ILLINOIS FED. AID PROJECT

* FORD, GRUNDY, KENDALL & LIVINGSTON

ELECTRICAL LOAD FOR INTERSECTION				
STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURNTIME %
US 6	RED	12	7	35
	YELLOW	12	12	5
	GREEN	12	9.5	60
	YELLOW ARROW LT.	4	6	5
	GREEN ARROW LT.	4	6	10
		4	11/10	50/50
LISBON ROAD	RED	6	7	60
	YELLOW	6	12	5
	GREEN	6	9.5	35
	YELLOW ARROW RT.	4	6	5
	GREEN ARROW RT.	4	6	10
		4	11/10	50/50
TRAFFIC SIGNAL CABINET	CONTROLLER	1	6	100
	UPS	1	50	100

THERE MAY BE ADDITIONAL ELECTRICAL LOADS DUE TO LIGHTING AND EMERGENCY VEHICLE DETECTION EQUIPMENT.
 AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
 CITY OF MORRIS



SCHEDULE OF QUANTITIES (95% STATE / 5% CITY)

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
MORRIS	US 6 & LISBON RD.		
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	8
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	12
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
X8808120	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
Z0033002	LED SIGNAL FACE RETROFIT, RED BALL	EACH	6
Z0033004	LED SIGNAL FACE RETROFIT, GREEN BALL	EACH	6
Z0033008	LED SIGNAL FACE RETROFIT, YELLOW BALL	EACH	6

CONSTRUCTION NOTES:

- MODIFY EXISTING CONTROLLER CABINET.
- INSTALL UNINTERRUPTABLE POWER SUPPLY.
- RETROFIT THE SIX (6) 3-SECTION HEADS WITH LED SIGNAL HEADS.
- REMOVE AND REPLACE FOUR (4) 3-SECTION OPTICALLY PROGRAMMED HEADS WITH LED 3-SECTION OPTICALLY PROGRAMMED HEADS.
- REMOVE AND REPLACE EIGHT (8) 4-SECTION HEADS WITH LED 5-SECTION HEADS.
- REMOVE AND REPLACE EIGHT (8) PEDESTRIAN HEADS WITH LED PEDESTRIAN HEADS WITH COUNT DOWN TIMERS.
- REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
 - 4 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, OPTICALLY PROGRAMMED, MAST ARM MOUNTED
 - 4 EACH - SIGNAL HEAD, 1-FACE, 4-SECTION, MAST ARM MOUNTED
 - 4 EACH - SIGNAL HEAD, 1-FACE, 4-SECTION, BRACKET MOUNTED
 - 8 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED
- THE RED BALLS OF THE NEW MAST ARM MOUNTED 5-SECTION SIGNAL HEADS SHALL BE POSITIONED TO MATCH THE EXISTING LOCATION OR TO PROVIDE 16' MINIMUM VERTICAL CLEARANCE, WHICHEVER IS GREATER.
- BRACKET MOUNTED SIGNAL HEADS SHALL MATCH EXISTING LOCATION.
- HOLES IN TRAFFIC SIGNAL POSTS OR MAST ARM POLES RESULTING FROM REMOVAL OF 4-SECTION SIGNAL HEADS SHALL BE COVERED WITH STAINLESS STEEL PLATES AND MOUNTING HARDWARE. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.

TRAFFIC SIGNALS LEGEND

	DENOTES NUMBER OF EXISTING CONDUCTORS
	EXISTING CONTROLLER AND CABINET
	SIGNAL SECTION 12"
	LEFT TURN YELLOW
	LEFT TURN GREEN
	RIGHT TURN YELLOW
	RIGHT TURN GREEN
O.P.	OPTICALLY PROGRAMMED SIGNAL
	EXISTING PEDESTRIAN PUSH BUTTON
	PROPOSED WALK/DON'T WALK WITH COUNT DOWN TIMER
	TRAFFIC SIGNAL BACKPLATE
	RETROFIT EXISTING TRAFFIC SIGNAL WITH LED HEADS

FILE NAME = 0366856-SHT-TS-CABLE-MORRIS-US6-LISBON.DGN

USER NAME = --

DESIGNED - --

REVISED - ---

PLOT SCALE = 1" = 20'

DRAWN - ARR/NV

REVISED - ---

PLOT DATE = 10/11

CHECKED - JKC

REVISED - ---

DATE - 10/11

REVISED - ---

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN
MORRIS - US 6 & LISBON ROAD

SCALE: 1" = 20'

SHEET NO. -- OF -- SHEETS

STA. ----- TO STA. -----

F.A.R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	D-3 LED RETROFIT 2012-3	*	29	18
CONTRACT NO. 66B56			ILLINOIS FED. AID PROJECT	

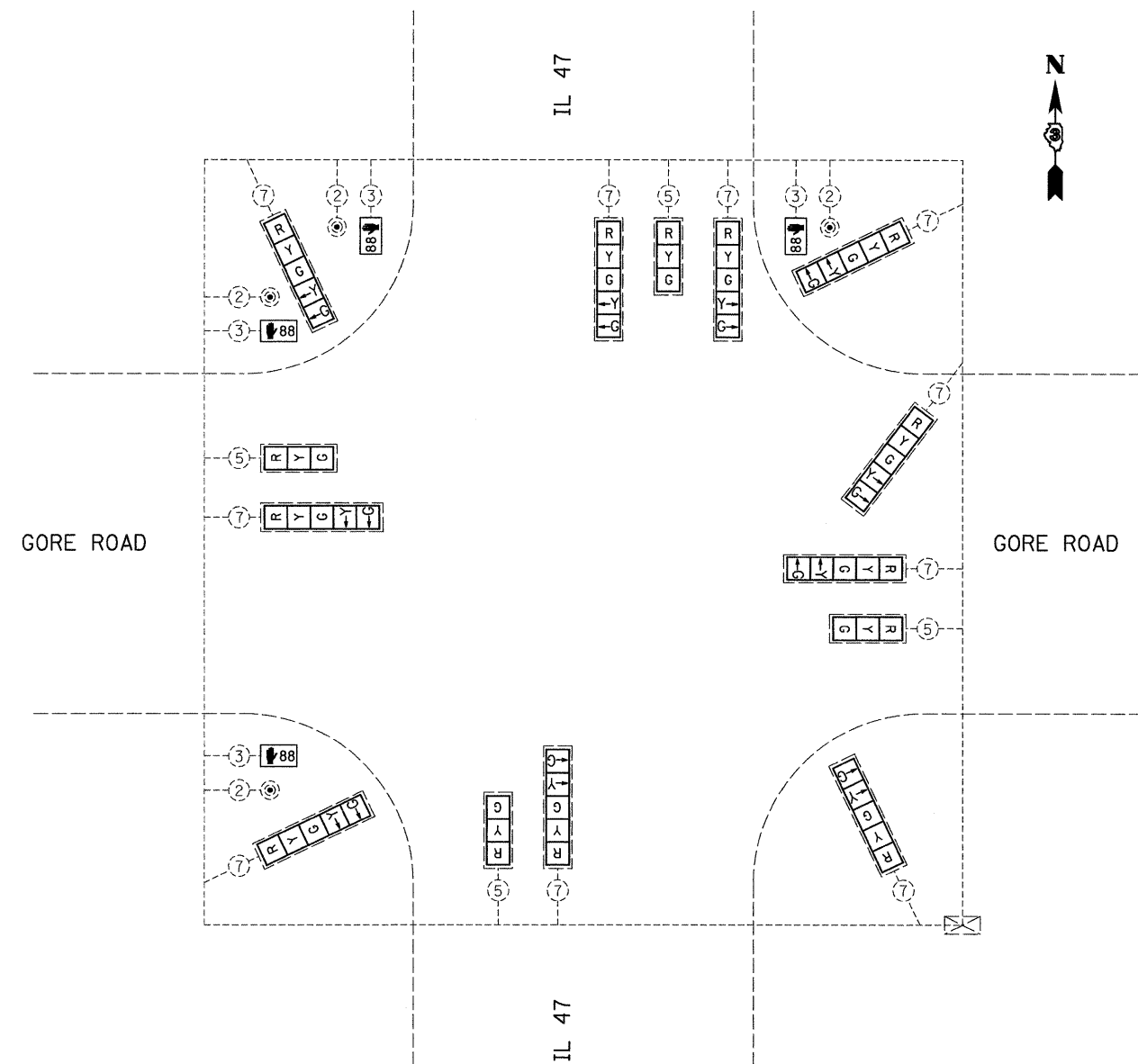
* FORD, GRUNDY, KENDALL & LIVINGSTON

ELECTRICAL LOAD FOR INTERSECTION				
STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURNTIME %
IL 47	RED	8	7	35
	YELLOW	8	12	5
	GREEN	8	9.5	60
	YELLOW ARROW LT.	4	6	5
	GREEN ARROW LT.	4	6	10
	YELLOW ARROW RT.	2	6	5
	GREEN ARROW RT.	2	6	10
		2	11/10	50/50
		2	8	50
GORE ROAD	RED	6	7	60
	YELLOW	6	12	5
	GREEN	6	9.5	35
	YELLOW ARROW LT.	4	6	5
	GREEN ARROW LT.	4	6	10
		2	11/10	50/50
	2	8	50	
TRAFFIC SIGNAL CABINET	CONTROLLER	1	6	100
	UPS	1	50	100

THERE MAY BE ADDITIONAL ELECTRICAL LOADS DUE TO LIGHTING AND EMERGENCY VEHICLE DETECTION EQUIPMENT.
 AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
 CITY OF MORRIS

CONSTRUCTION NOTES:

- MODIFY EXISTING CONTROLLER CABINET.
- INSTALL UNINTERRUPTABLE POWER SUPPLY.
- RETROFIT THE FOUR (4) 3-SECTION HEADS WITH LED SIGNAL HEADS.
- RETROFIT THE TEN (10) 5-SECTION HEADS WITH LED SIGNAL HEADS.
- REMOVE AND REPLACE FOUR (4) PEDESTRIAN HEADS WITH LED PEDESTRIAN HEADS WITH COUNT DOWN TIMERS.
- REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
 4 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED



PROPOSED CABLE PLAN
 NOT TO SCALE

TRAFFIC SIGNALS LEGEND

	DENOTES NUMBER OF EXISTING CONDUCTORS
	EXISTING CONTROLLER AND CABINET
	SIGNAL SECTION 12"
	LEFT TURN YELLOW
	LEFT TURN GREEN
	RIGHT TURN YELLOW
	RIGHT TURN GREEN
	EXISTING PEDESTRIAN PUSH BUTTON
	PROPOSED WALK/DON'T WALK WITH COUNT DOWN TIMER
	RETROFIT EXISTING TRAFFIC SIGNAL WITH LED HEADS

SCHEDULE OF QUANTITIES (95% STATE / 5% CITY)

MORRIS IL 47 & GORE RD.

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	4
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
Z0033002	LED SIGNAL FACE RETROFIT, RED BALL	EACH	14
Z0033004	LED SIGNAL FACE RETROFIT, GREEN BALL	EACH	14
Z0033008	LED SIGNAL FACE RETROFIT, YELLOW BALL	EACH	14
Z0033010	LED SIGNAL FACE RETROFIT, YELLOW ARROW	EACH	10
Z0033012	LED SIGNAL FACE RETROFIT, GREEN ARROW	EACH	10

FILE NAME = 0366B56-SHT-TS-CABLE-MORRIS-IL47-GORE.DGN

USER NAME = --

DESIGNED - --

REVISED - ---

PLOT SCALE = 1" = 20'

DRAWN - ARR/NV

REVISED - ---

PLOT DATE = 10/11

CHECKED - JKC

REVISED - ---

DATE - 10/11

REVISED - ---

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN
 MORRIS - IL 47 & GORE ROAD

* FORD, GRUNDY, KENDALL & LIVINGSTON

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	D-3 LED RETROFIT 2012-3	*	29	19

CONTRACT NO. 66B56

ILLINOIS FED. AID PROJECT

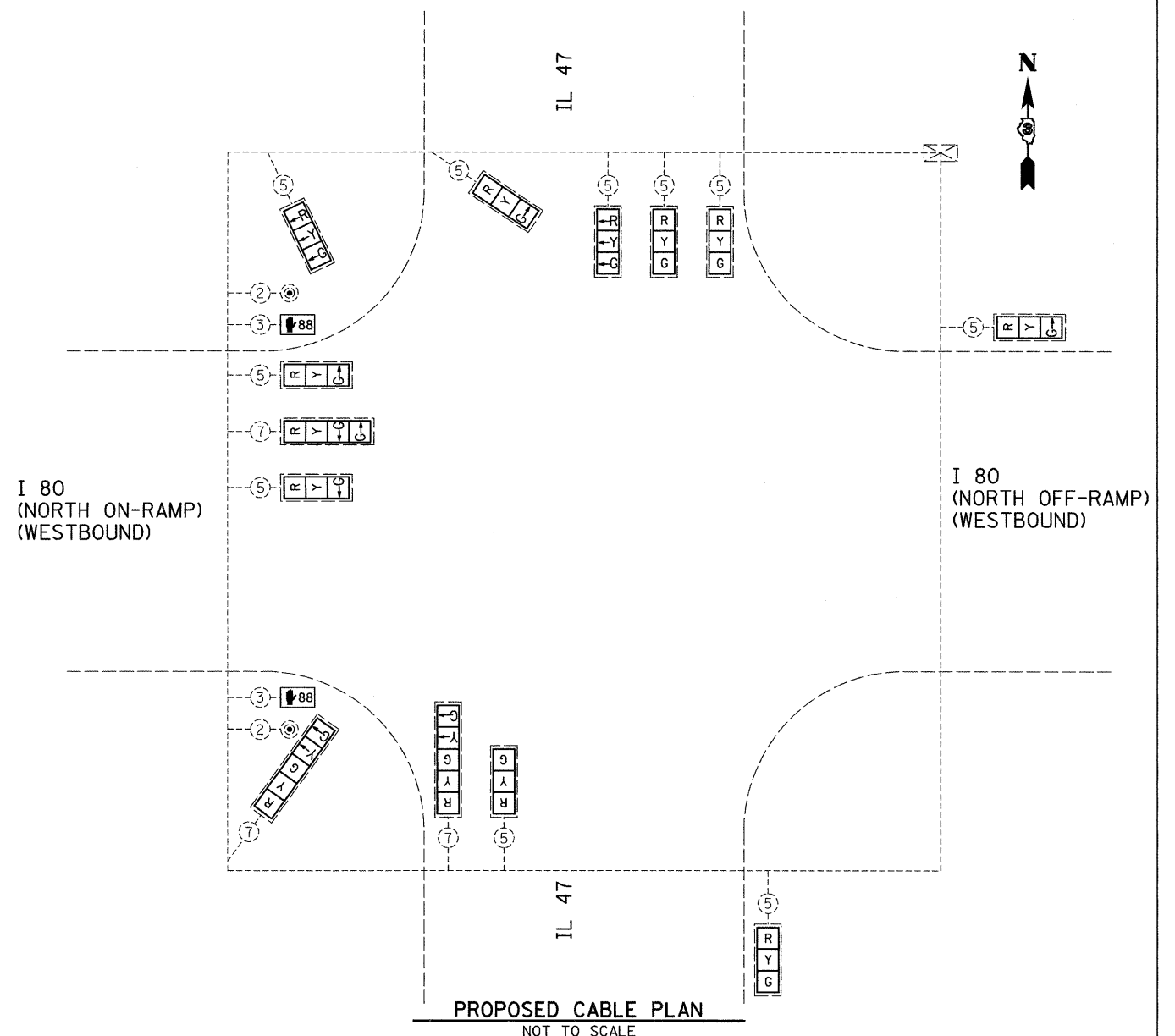
SCALE: 1" = 20' SHEET NO. -- OF -- SHEETS STA. ----- TO STA. -----

ELECTRICAL LOAD FOR INTERSECTION				
STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURNTIME %
IL 47	RED	6	7	35
	YELLOW	6	12	5
	GREEN	6	9.5	60
	RED ARROW LT.	2	6	85
	YELLOW ARROW LT.	2	6	5
	GREEN ARROW LT.	2	6	10
	YELLOW ARROW RT.	2	6	5
I-80 (NORTH RAMPS) (WESTBOUND)	GREEN ARROW RT.	2	6	10
	RED	5	7	60
	YELLOW	5	12	5
	GREEN ARROW RT.	4	6	35
	GREEN ARROW LT.	2	6	35
TRAFFIC SIGNAL CABINET	CONTROLLER	1	6	100
	UPS	1	50	100

THERE MAY BE ADDITIONAL ELECTRICAL LOADS DUE TO LIGHTING AND EMERGENCY VEHICLE DETECTION EQUIPMENT.
AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
STATE OF ILLINOIS

CONSTRUCTION NOTES:

- MODIFY EXISTING CONTROLLER CABINET.
- INSTALL UNINTERRUPTABLE POWER SUPPLY.
- RETROFIT THE TEN (10) 3-SECTION HEADS WITH LED SIGNAL HEADS.
- RETROFIT THE ONE (1) 4-SECTION HEAD WITH LED SIGNAL HEAD.
- RETROFIT THE TWO (2) 5-SECTION HEADS WITH LED SIGNAL HEADS.
- REMOVE AND REPLACE TWO (2) PEDESTRIAN HEADS WITH LED PEDESTRIAN HEADS WITH COUNT DOWN TIMERS.
- REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
2 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED



SCHEDULE OF QUANTITIES (100% STATE / 0% CITY)

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	2
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
Z0033002	LED SIGNAL FACE RETROFIT, RED BALL	EACH	11
Z0033004	LED SIGNAL FACE RETROFIT, GREEN BALL	EACH	6
Z0033008	LED SIGNAL FACE RETROFIT, YELLOW BALL	EACH	11
Z0033010	LED SIGNAL FACE RETROFIT, YELLOW ARROW	EACH	4
Z0033012	LED SIGNAL FACE RETROFIT, GREEN ARROW	EACH	10
Z0033018	LED SIGNAL FACE RETROFIT, RED ARROW	EACH	2

	DENOTES NUMBER OF EXISTING CONDUCTORS
	EXISTING CONTROLLER AND CABINET
	SIGNAL SECTION 12"
	LEFT TURN RED
	LEFT TURN YELLOW
	LEFT TURN GREEN
	RIGHT TURN YELLOW
	RIGHT TURN GREEN
	EXISTING PEDESTRIAN PUSH BUTTON
	PROPOSED WALK/DON'T WALK WITH COUNT DOWN TIMER
	RETROFIT EXISTING TRAFFIC SIGNAL WITH LED HEADS

FILE NAME = D366856-SHT-TS-CABLE-MORRIS-IL47-I80N.DGN

USER NAME = --

DESIGNED - --

REVISED - ---

PLOT SCALE = 1" = 20'

DRAWN - ARR/NV

REVISED - ---

PLOT DATE = 10/11

CHECKED - JKC

REVISED - ---

DATE - 10/11

REVISED - ---

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN
MORRIS - IL 47 & I 80 (NORTH RAMP)

SCALE: 1" = 20'

SHEET NO. ___ OF ___ SHEETS

STA. _____ TO STA. _____

* FORD, GRUNDY, KENDALL & LIVINGSTON

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	D-3 LED RETROFIT 2012-3	*	29	20

CONTRACT NO. 66B56

ILLINOIS FED. AID PROJECT

ELECTRICAL LOAD FOR INTERSECTION				
STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURNTIME %
IL 47	RED	6	7	35
	YELLOW	6	12	5
	GREEN	6	9.5	60
	RED ARROW LT.	3	6	85
	YELLOW ARROW LT.	3	6	5
	GREEN ARROW LT.	3	6	10
	YELLOW ARROW RT.	2	6	5
I-80 (SOUTH RAMPS) (EASTBOUND)	GREEN ARROW RT.	2	6	10
	RED	5	7	60
	YELLOW	5	12	5
	GREEN ARROW RT.	3	6	35
	GREEN ARROW LT.	3	6	35
TRAFFIC SIGNAL CABINET	CONTROLLER	1	6	100
	UPS	1	50	100

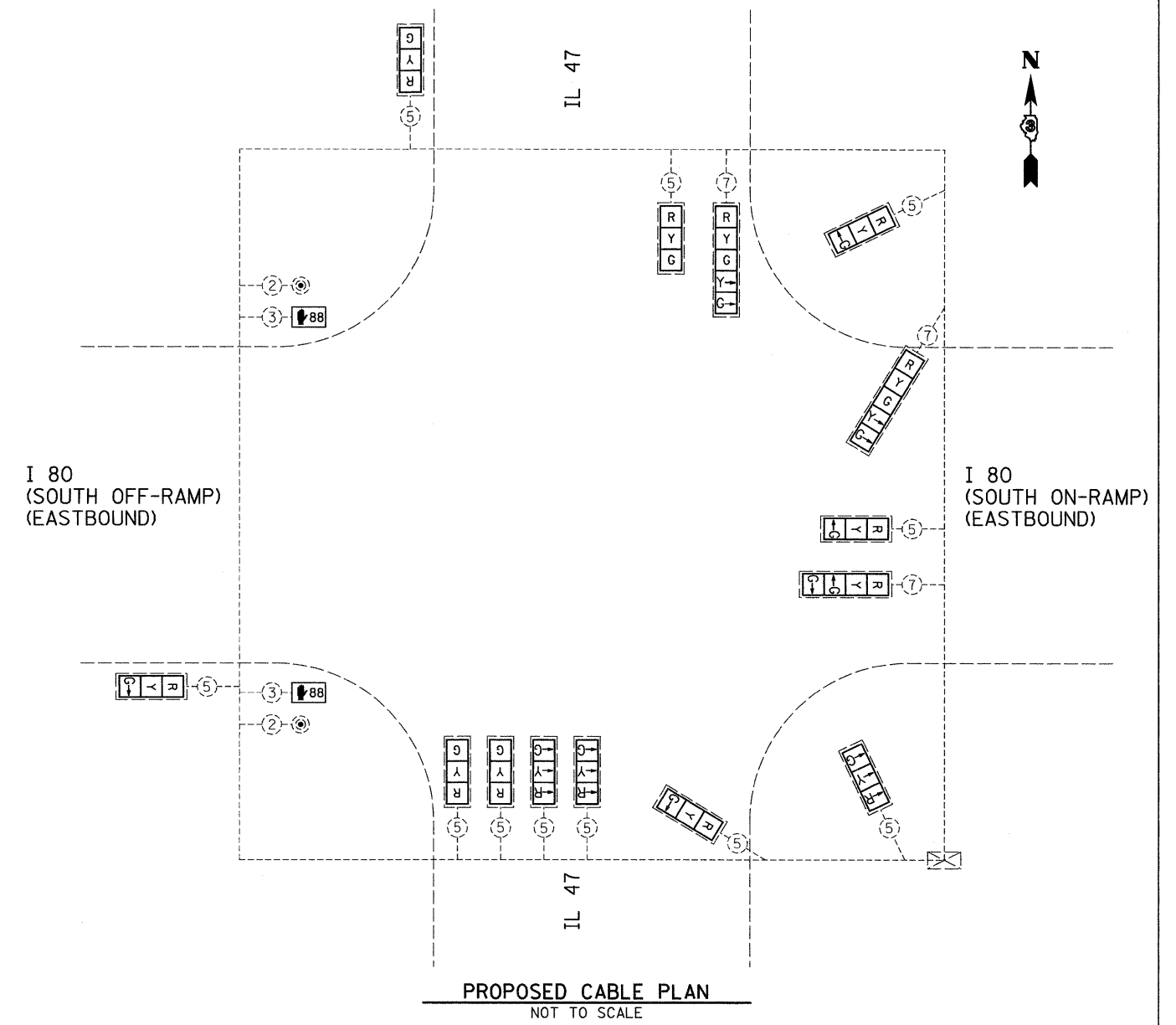
THERE MAY BE ADDITIONAL ELECTRICAL LOADS DUE TO LIGHTING AND EMERGENCY VEHICLE DETECTION EQUIPMENT.
AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
STATE OF ILLINOIS

CONSTRUCTION NOTES:

- MODIFY EXISTING CONTROLLER CABINET.
- INSTALL UNINTERRUPTABLE POWER SUPPLY.
- RETROFIT THE ELEVEN (11) 3-SECTION HEADS WITH LED SIGNAL HEADS.
- RETROFIT THE ONE (1) 4-SECTION HEAD WITH LED SIGNAL HEAD.
- RETROFIT THE TWO (2) 5-SECTION HEADS WITH LED SIGNAL HEADS.
- REMOVE AND REPLACE TWO (2) PEDESTRIAN HEADS WITH LED PEDESTRIAN HEADS WITH COUNT DOWN TIMERS.
- REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
2 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED

SCHEDULE OF QUANTITIES (100% STATE / 0% CITY)

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	2
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
Z0033002	LED SIGNAL FACE RETROFIT, RED BALL	EACH	11
Z0033004	LED SIGNAL FACE RETROFIT, GREEN BALL	EACH	6
Z0033008	LED SIGNAL FACE RETROFIT, YELLOW BALL	EACH	11
Z0033010	LED SIGNAL FACE RETROFIT, YELLOW ARROW	EACH	5
Z0033012	LED SIGNAL FACE RETROFIT, GREEN ARROW	EACH	11
Z0033018	LED SIGNAL FACE RETROFIT, RED ARROW	EACH	3



TRAFFIC SIGNALS LEGEND

	DENOTES NUMBER OF EXISTING CONDUCTORS
	EXISTING CONTROLLER AND CABINET
	SIGNAL SECTION 12"
	LEFT TURN RED
	LEFT TURN YELLOW
	LEFT TURN GREEN
	RIGHT TURN YELLOW
	RIGHT TURN GREEN
	EXISTING PEDESTRIAN PUSH BUTTON
	PROPOSED WALK/DON'T WALK WITH COUNT DOWN TIMER
	RETROFIT EXISTING TRAFFIC SIGNAL WITH LED HEADS

FILE NAME = D:\365856-SHT-TS-CABLE-MORRIS-IL47-1885.DGN

USER NAME = ---
PLOT SCALE = 1" = 20'
PLOT DATE = 10/11

DESIGNED - --
DRAWN - ARR/NV
CHECKED - JKC
DATE - 10/11

REVISED - ---
REVISED - ---
REVISED - ---
REVISED - ---

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL CABLE PLAN
MORRIS - IL 47 & I 80 (SOUTH RAMP)**
SCALE: 1" = 20' SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

SECTION COUNTY TOTAL SHEETS SHEET NO.
D-3 LED RETROFIT 2012-3 * 29 21
CONTRACT NO. 66B56
ILLINOIS FED. AID PROJECT

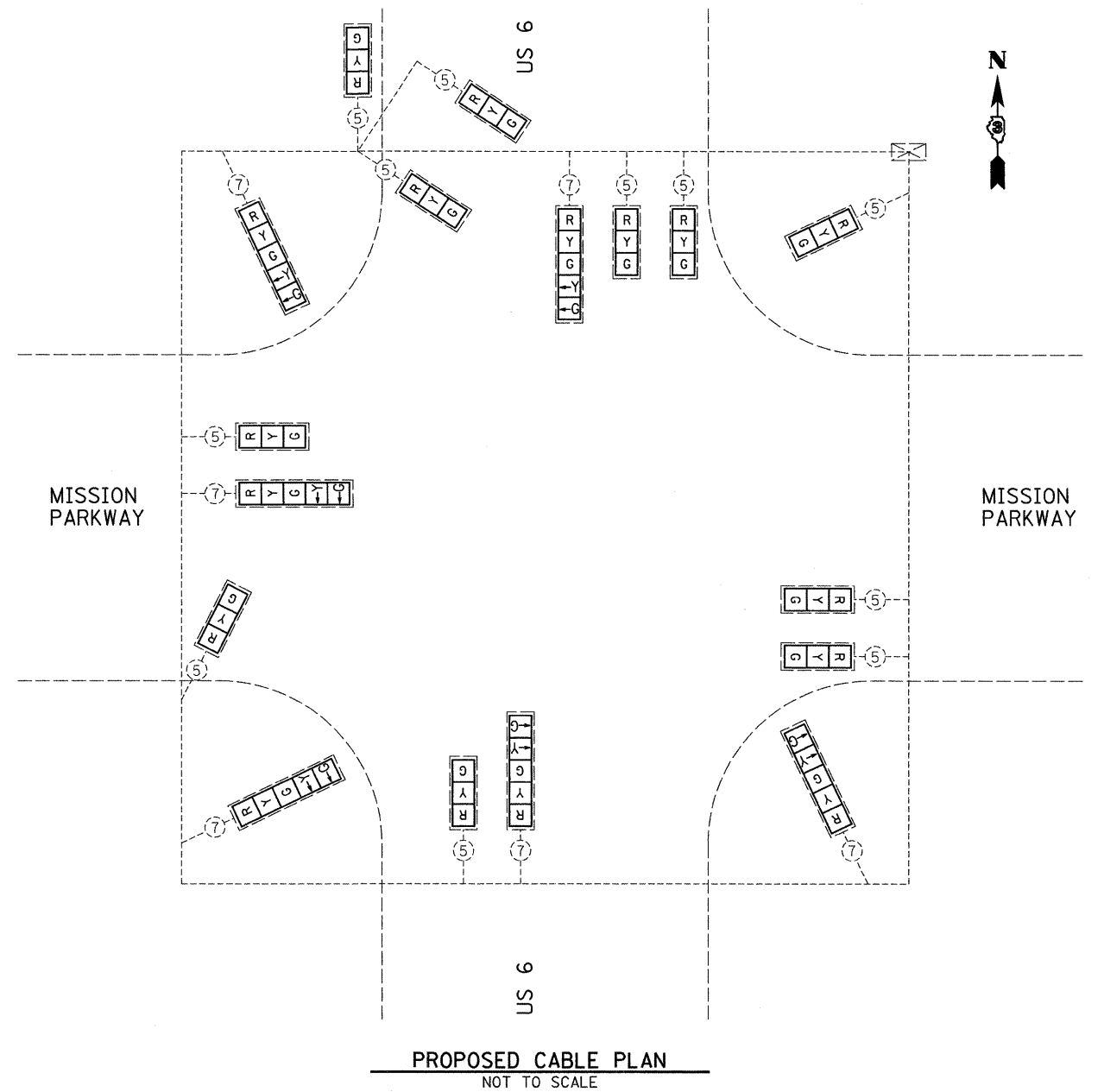
* FORD, GRUNDY, KENDALL & LIVINGSTON

ELECTRICAL LOAD FOR INTERSECTION				
STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURNTIME %
US 6	RED	9	7	35
	YELLOW	9	12	5
	GREEN	9	9.5	60
	YELLOW ARROW LT.	4	6	5
	GREEN ARROW LT.	4	6	10
MISSION PARKWAY	RED	8	7	60
	YELLOW	8	12	5
	GREEN	8	9.5	35
	YELLOW ARROW LT.	2	6	5
	GREEN ARROW LT.	2	6	10
TRAFFIC SIGNAL CABINET	CONTROLLER	1	6	100
	UPS	1	50	100

THERE MAY BE ADDITIONAL ELECTRICAL LOADS DUE TO LIGHTING AND EMERGENCY VEHICLE DETECTION EQUIPMENT.
 AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
 CITY OF MORRIS

CONSTRUCTION NOTES:

- MODIFY EXISTING CONTROLLER CABINET.
- INSTALL UNINTERRUPTABLE POWER SUPPLY.
- RETROFIT THE ELEVEN (11) 3-SECTION HEADS WITH LED SIGNAL HEADS.
- RETROFIT THE SIX (6) 5-SECTION HEADS WITH LED SIGNAL HEADS.



SCHEDULE OF QUANTITIES (95% STATE / 5% CITY)

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1
Z0033002	LED SIGNAL FACE RETROFIT, RED BALL	EACH	17
Z0033004	LED SIGNAL FACE RETROFIT, GREEN BALL	EACH	17
Z0033008	LED SIGNAL FACE RETROFIT, YELLOW BALL	EACH	17
Z0033010	LED SIGNAL FACE RETROFIT, YELLOW ARROW	EACH	6
Z0033012	LED SIGNAL FACE RETROFIT, GREEN ARROW	EACH	6

	DENOTES NUMBER OF EXISTING CONDUCTORS
	EXISTING CONTROLLER AND CABINET
	SIGNAL SECTION 12"
	LEFT TURN YELLOW
	LEFT TURN GREEN
	RETROFIT EXISTING TRAFFIC SIGNAL WITH LED HEADS

FILE NAME = 036656-SHT-TS-CABLE-MORRIS-US6-MISSION.DGN

USER NAME = ---
 PLOT SCALE = 1" = 20'
 PLOT DATE = 10/11

DESIGNED - --
 DRAWN - ARR/NV
 CHECKED - JKC
 DATE - 10/11

REVISED - ---
 REVISED - ---
 REVISED - ---
 REVISED - ---

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN
 MORRIS - US 6 & MISSION PARKWAY
 SCALE: 1" = 20' SHEET NO. -- OF -- SHEETS STA. ----- TO STA. -----

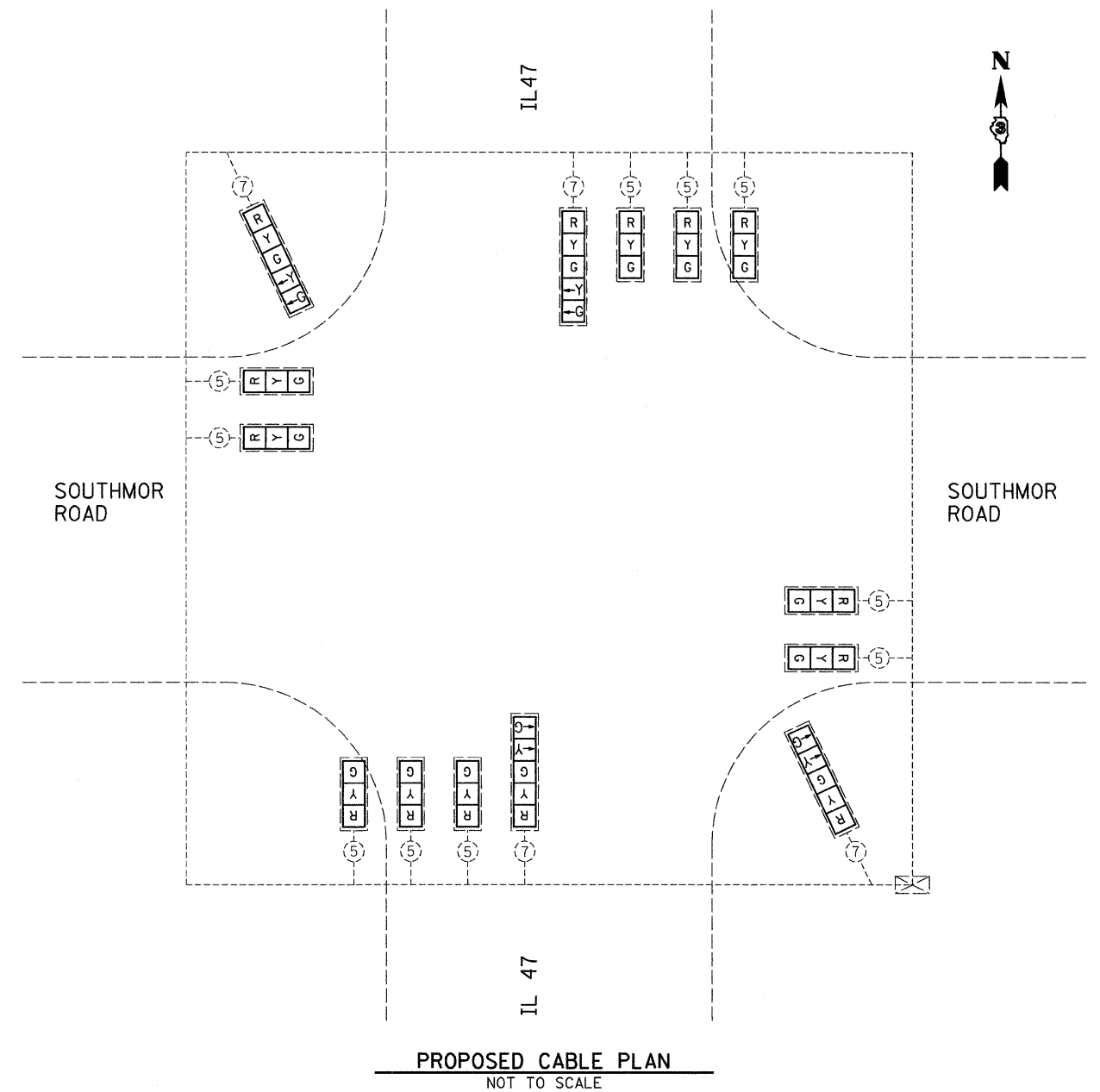
* FORD, GRUNDY, KENDALL & LIVINGSTON
 F.A. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
 -- D-3 LED RETROFIT 2012-3 * 29 22
 CONTRACT NO. 66B56
 ILLINOIS FED. AID PROJECT

ELECTRICAL LOAD FOR INTERSECTION				
STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURNTIME %
IL 47	RED	10	7	35
	YELLOW	10	12	5
	GREEN	10	9.5	60
	YELLOW ARROW LT.	4	6	5
	GREEN ARROW LT.	4	6	10
SOUTH MOR ROAD	RED	4	7	60
	YELLOW	4	12	5
	GREEN	4	9.5	35
TRAFFIC SIGNAL CABINET	CONTROLLER	1	6	100
	UPS	1	50	100

THERE MAY BE ADDITIONAL ELECTRICAL LOADS DUE TO LIGHTING AND EMERGENCY VEHICLE DETECTION EQUIPMENT.
 AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
 STATE OF ILLINOIS

CONSTRUCTION NOTES:

- MODIFY EXISTING CONTROLLER CABINET.
- INSTALL UNINTERRUPTABLE POWER SUPPLY.
- RETROFIT THE TEN (10) 3-SECTION HEADS WITH LED SIGNAL HEADS.
- RETROFIT THE FOUR (4) 5-SECTION HEADS WITH LED SIGNAL HEADS.



SCHEDULE OF QUANTITIES (100% STATE / 0% CITY)

STATE	IL 47 & SOUTH MOR RD.		
ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1
Z0033002	LED SIGNAL FACE RETROFIT, RED BALL	EACH	14
Z0033004	LED SIGNAL FACE RETROFIT, GREEN BALL	EACH	14
Z0033008	LED SIGNAL FACE RETROFIT, YELLOW BALL	EACH	14
Z0033010	LED SIGNAL FACE RETROFIT, YELLOW ARROW	EACH	4
Z0033012	LED SIGNAL FACE RETROFIT, GREEN ARROW	EACH	4

(5)	DENOTES NUMBER OF EXISTING CONDUCTORS
[Cabinet]	EXISTING CONTROLLER AND CABINET
[Signal Head]	SIGNAL SECTION 12"
[Signal Head with Y]	LEFT TURN YELLOW
[Signal Head with G]	LEFT TURN GREEN
[Signal Head with R, Y, G]	RETROFIT EXISTING TRAFFIC SIGNAL WITH LED HEADS

FILE NAME = 0368856-SHT-TS-CABLE-STATE-IL47-SOUTH MOR.DGN

USER NAME = ---

DESIGNED - --

REVISED - ---

DRAWN - ARR/NV

REVISED - ---

CHECKED - JKC

REVISED - ---

PLOT DATE = 10/11

REVISED - ---

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN
 STATE - IL 47 & SOUTH MOR ROAD

* FORD, GRUNDY, KENDALL & LIVINGSTON

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	D-3 LED RETROFIT 2012-3	*	29	23

CONTRACT NO. 66B56

SCALE: 1" = 20' SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

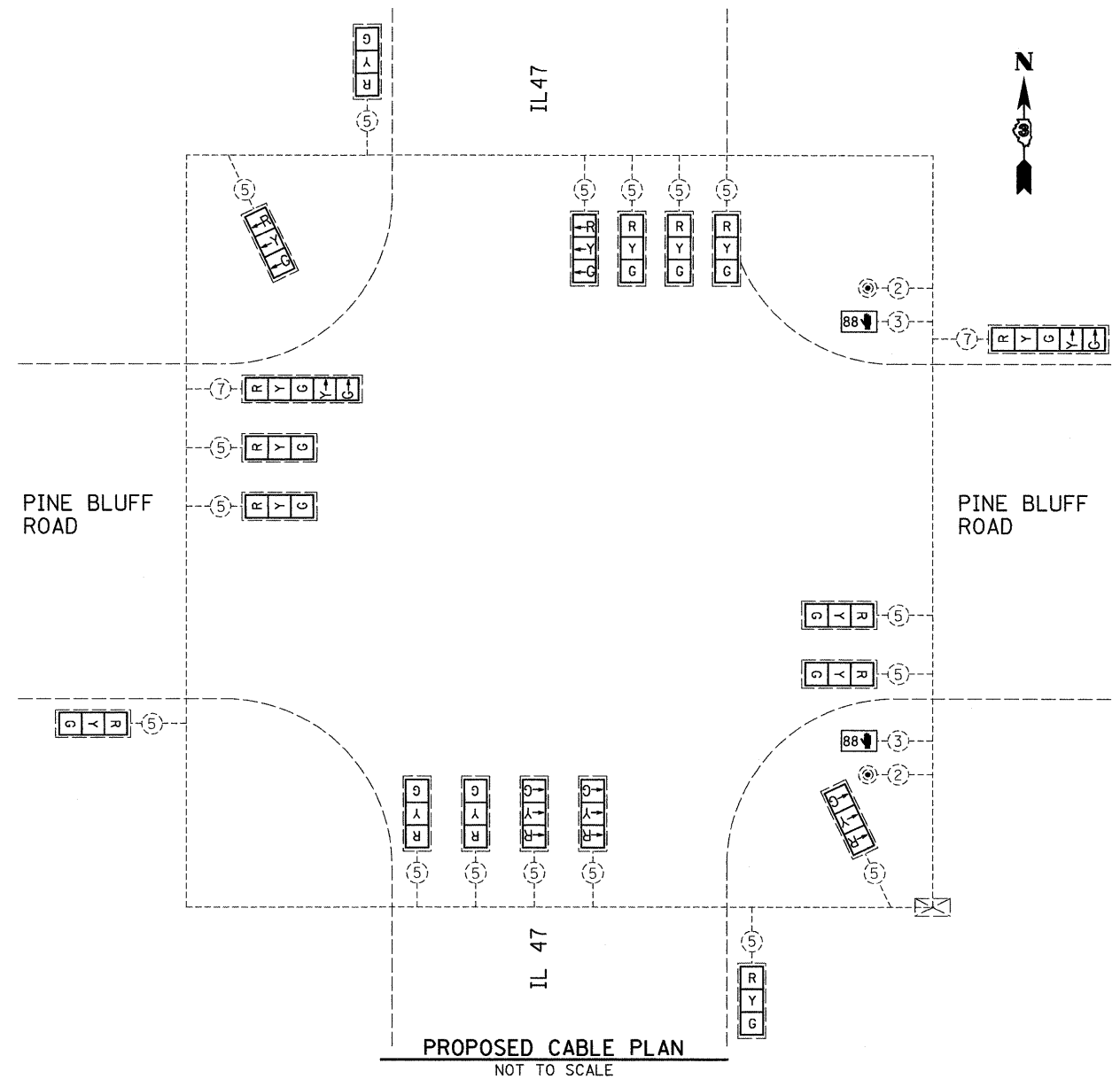
[ILLINOIS] FED. AID PROJECT

ELECTRICAL LOAD FOR INTERSECTION				
STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURNTIME %
IL 47	RED	7	7	35
	YELLOW	7	12	5
	GREEN	7	9.5	60
	RED ARROW LT.	5	6	85
	YELLOW ARROW LT.	5	6	5
PINE BLUFF ROAD	RED	7	7	60
	YELLOW	7	12	5
	GREEN	7	9.5	35
	YELLOW ARROW RT.	2	6	5
	GREEN ARROW RT.	2	6	10
	88	2	8	50
TRAFFIC SIGNAL CABINET	CONTROLLER	1	6	100
	UPS	1	50	100

THERE MAY BE ADDITIONAL ELECTRICAL LOADS DUE TO LIGHTING AND EMERGENCY VEHICLE DETECTION EQUIPMENT.
 AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
 STATE OF ILLINOIS

CONSTRUCTION NOTES:

- MODIFY EXISTING CONTROLLER CABINET.
- INSTALL UNINTERRUPTABLE POWER SUPPLY.
- RETROFIT THE SEVENTEEN (17) 3-SECTION HEADS WITH LED SIGNAL HEADS.
- RETROFIT THE TWO (2) 5-SECTION HEADS WITH LED SIGNAL HEADS.
- REMOVE AND REPLACE TWO (2) PEDESTRIAN HEADS WITH LED PEDESTRIAN HEADS WITH COUNT DOWN TIMERS.
- REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
 2 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED



SCHEDULE OF QUANTITIES (100% STATE / 0% CITY)

STATE	IL 47 & PINE BLUFF RD.		
ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	2
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
Z0033002	LED SIGNAL FACE RETROFIT, RED BALL	EACH	14
Z0033004	LED SIGNAL FACE RETROFIT, GREEN BALL	EACH	14
Z0033008	LED SIGNAL FACE RETROFIT, YELLOW BALL	EACH	14
Z0033010	LED SIGNAL FACE RETROFIT, YELLOW ARROW	EACH	7
Z0033012	LED SIGNAL FACE RETROFIT, GREEN ARROW	EACH	7
Z0033018	LED SIGNAL FACE RETROFIT, RED ARROW	EACH	5

(5)	DENOTES NUMBER OF EXISTING CONDUCTORS
[CABINET]	EXISTING CONTROLLER AND CABINET
[SECTION]	SIGNAL SECTION 12"
[R]	LEFT TURN RED
[Y]	LEFT TURN YELLOW
[G]	LEFT TURN GREEN
[Y-]	RIGHT TURN YELLOW
[G-]	RIGHT TURN GREEN
(PB)	EXISTING PEDESTRIAN PUSH BUTTON
[88]	PROPOSED WALK/DON'T WALK WITH COUNT DOWN TIMER
[HEAD]	RETROFIT EXISTING TRAFFIC SIGNAL WITH LED HEADS

FILE NAME = 036856-SHT-TS-CABLE-STATE-IL47-PINEBLUFF.DGN

USER NAME = --
 PLOT SCALE = 1" = 20'
 PLOT DATE = 10/11

DESIGNED - --
 DRAWN - ARR/NV
 CHECKED - JKC
 DATE - 10/11

REVISED - ---
 REVISED - ---
 REVISED - ---
 REVISED - ---

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN
 STATE - IL 47 & PINE BLUFF ROAD
 SCALE: 1" = 20' SHEET NO. -- OF -- SHEETS STA. ----- TO STA.

F.A. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
 -- D-3 LED RETROFIT 2012-3 * 29 24
 CONTRACT NO. 66B56
 ILLINOIS FED. AID PROJECT

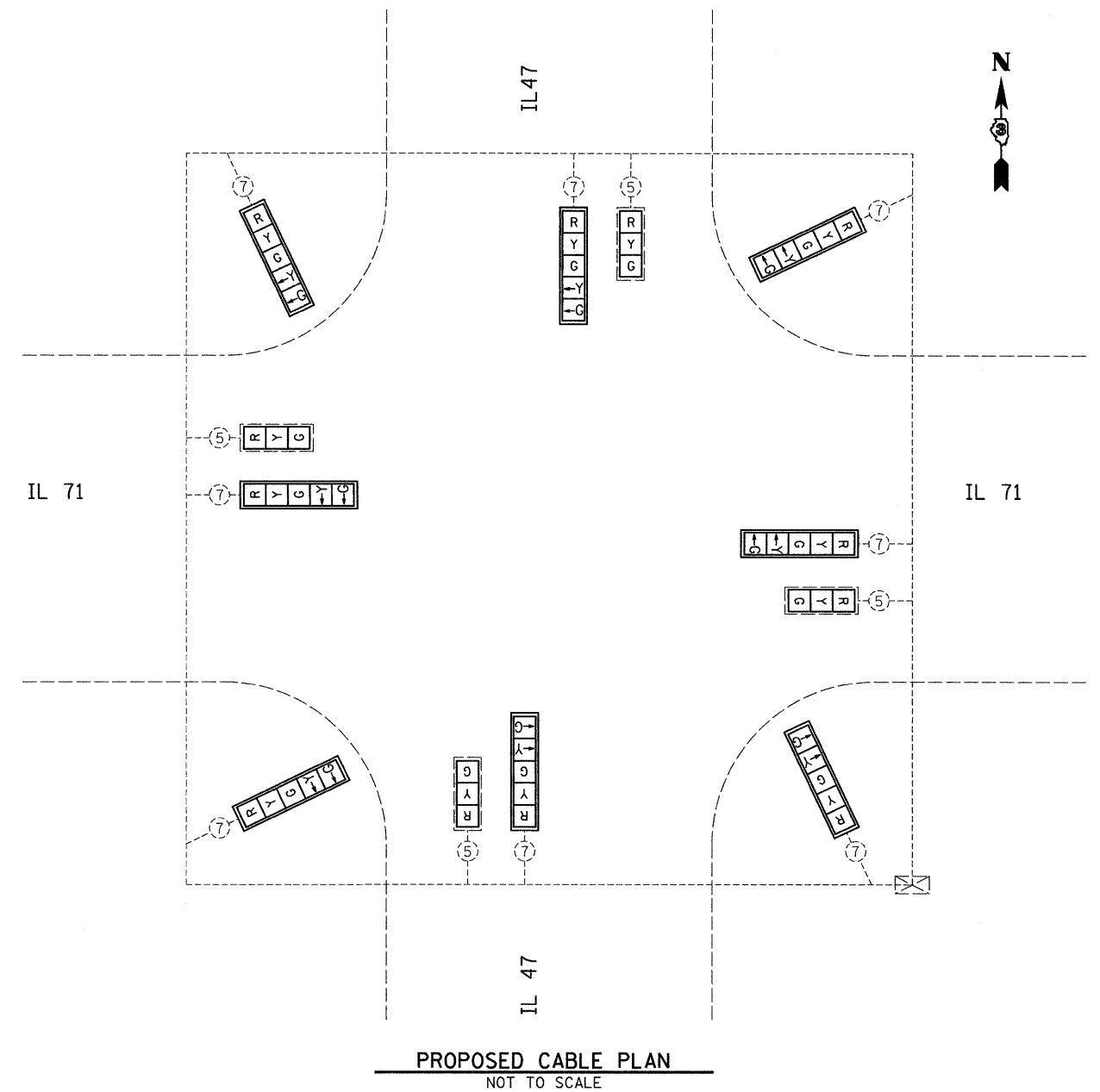
* FORD, GRUNDY, KENDALL & LIVINGSTON

ELECTRICAL LOAD FOR INTERSECTION				
STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURNTIME %
IL 47	RED	6	7	35
	YELLOW	6	12	5
	GREEN	6	9.5	60
	YELLOW ARROW LT.	4	6	5
	GREEN ARROW LT.	4	6	10
IL 71	RED	6	7	60
	YELLOW	6	12	5
	GREEN	6	9.5	35
	YELLOW ARROW LT.	4	6	5
	GREEN ARROW LT.	4	6	10
TRAFFIC SIGNAL CABINET	CONTROLLER	1	6	100
	UPS	1	50	100

THERE MAY BE ADDITIONAL ELECTRICAL LOADS DUE TO LIGHTING AND EMERGENCY VEHICLE DETECTION EQUIPMENT.
 AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
 STATE OF ILLINOIS

CONSTRUCTION NOTES:

MODIFY EXISTING CONTROLLER CABINET.
 INSTALL UNINTERRUPTABLE POWER SUPPLY.
 REMOVE AND REPLACE EIGHT (8) 4-SECTION HEADS WITH LED 5-SECTION HEADS.
 RETROFIT THE FOUR (4) 3-SECTION HEADS WITH LED SIGNAL HEADS.
 REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
 4 EACH - SIGNAL HEAD, 1-FACE, 4-SECTION, BRACKET MOUNTED
 4 EACH - SIGNAL HEAD, 1-FACE, 4-SECTION, MAST ARM MOUNTED
 THE RED BALLS OF THE NEW MAST ARM MOUNTED 5-SECTION SIGNAL HEADS SHALL BE POSITIONED TO MATCH THE EXISTING LOCATION OR TO PROVIDE 16' MINIMUM VERTICAL CLEARANCE, WHICHEVER IS GREATER.
 BRACKET MOUNTED SIGNAL HEADS SHALL MATCH EXISTING LOCATION.
 HOLES IN TRAFFIC SIGNAL POSTS OR MAST ARM POLES RESULTING FROM REMOVAL OF 4-SECTION SIGNAL HEADS SHALL BE COVERED WITH STAINLESS STEEL PLATES AND MOUNTING HARDWARE. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.



SCHEDULE OF QUANTITIES (100% STATE / 0% CITY)

YORKVILLE IL 47 & IL 71

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
Z0033002	LED SIGNAL FACE RETROFIT, RED BALL	EACH	4
Z0033004	LED SIGNAL FACE RETROFIT, GREEN BALL	EACH	4
Z0033008	LED SIGNAL FACE RETROFIT, YELLOW BALL	EACH	4

TRAFFIC SIGNALS LEGEND

	DENOTES NUMBER OF EXISTING CONDUCTORS
	EXISTING CONTROLLER AND CABINET
	SIGNAL SECTION 12"
	LEFT TURN YELLOW
	LEFT TURN GREEN
	TRAFFIC SIGNAL BACKPLATE
	RETROFIT EXISTING TRAFFIC SIGNAL WITH LED HEADS

FILE NAME = 0366B56-SHT-TS-CABLE-YORKVILLE-IL47-IL71.DGN

USER NAME = --

DESIGNED - --

REVISED - ---

PLOT SCALE = 1" = 20'

DRAWN - ARR/NV

REVISED - ---

PLOT DATE = 10/11

CHECKED - JKC

REVISED - ---

DATE - 10/11

REVISED - ---

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN
 YORKVILLE - IL 47 & IL 71

SCALE: 1" = 20'

SHEET NO. ___ OF ___ SHEETS

STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	D-3 LED RETROFIT 2012-3	•	29	25
CONTRACT NO. 66B56			ILLINOIS FED. AID PROJECT	

• FORD, GRUNDY, KENDALL & LIVINGSTON

ELECTRICAL LOAD FOR INTERSECTION				
STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURNTIME %
IL 47	RED	6	7	35
	YELLOW	6	12	5
	GREEN	6	9.5	60
	YELLOW ARROW LT.	4	6	5
	GREEN ARROW LT.	4	6	10
GALENA ROAD	RED	6	7	60
	YELLOW	6	12	5
	GREEN	6	9.5	35
TRAFFIC SIGNAL CABINET	CONTROLLER	1	6	100
	UPS	1	50	100

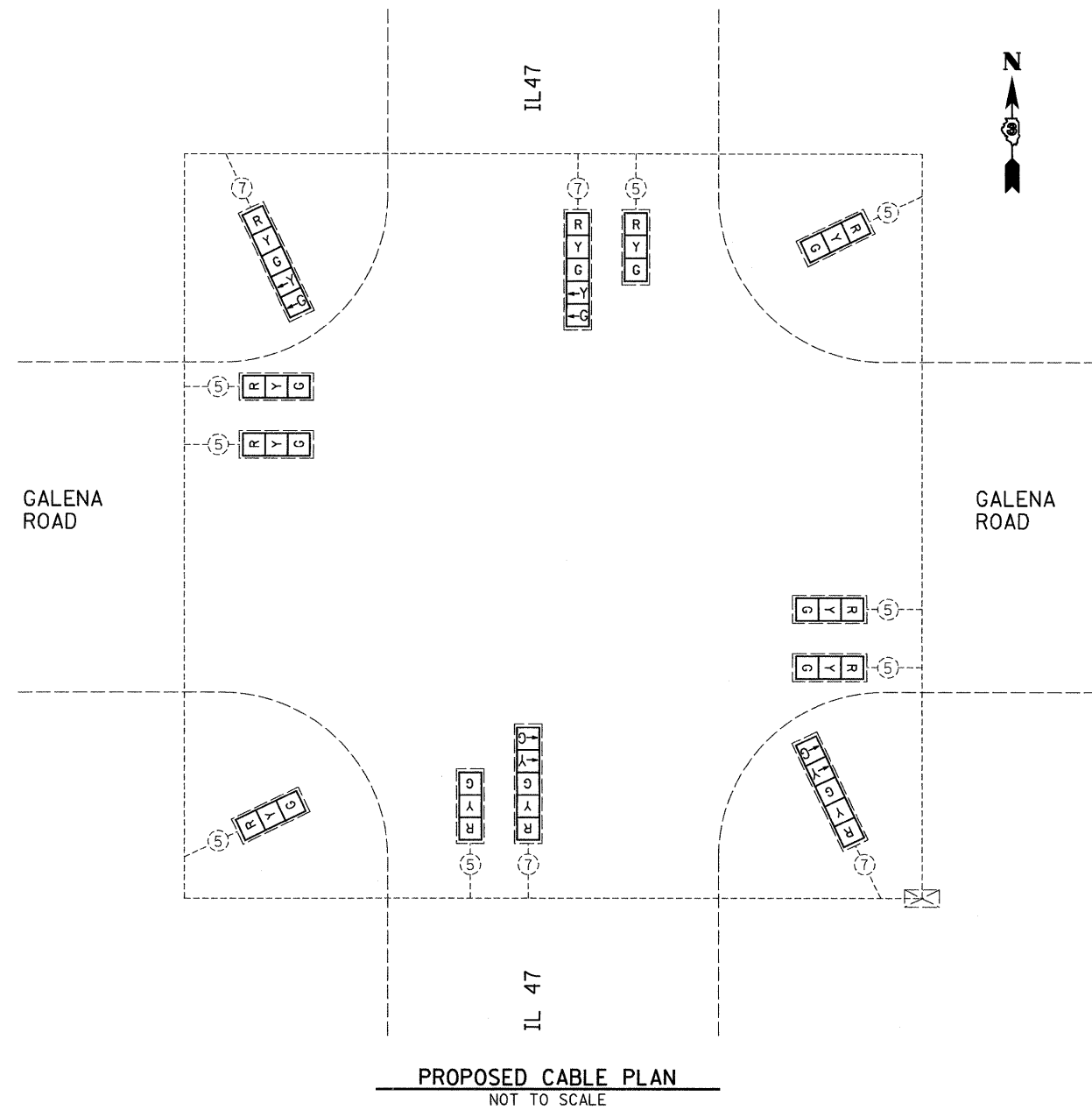
THERE MAY BE ADDITIONAL ELECTRICAL LOADS DUE TO LIGHTING AND EMERGENCY VEHICLE DETECTION EQUIPMENT.
 AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
 STATE OF ILLINOIS

CONSTRUCTION NOTES:

- MODIFY EXISTING CONTROLLER CABINET.
- INSTALL UNINTERRUPTABLE POWER SUPPLY.
- RETROFIT THE EIGHT (8) 3-SECTION HEADS WITH LED SIGNAL HEADS.
- RETROFIT THE FOUR (4) 5-SECTION HEADS WITH LED SIGNAL HEADS.

SCHEDULE OF QUANTITIES (100% STATE / 0% CITY)

STATE	IL 47 & GALENA RD.		
ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1
Z0033002	LED SIGNAL FACE RETROFIT, RED BALL	EACH	12
Z0033004	LED SIGNAL FACE RETROFIT, GREEN BALL	EACH	12
Z0033008	LED SIGNAL FACE RETROFIT, YELLOW BALL	EACH	12
Z0033010	LED SIGNAL FACE RETROFIT, YELLOW ARROW	EACH	4
Z0033012	LED SIGNAL FACE RETROFIT, GREEN ARROW	EACH	4



	DENOTES NUMBER OF EXISTING CONDUCTORS
	EXISTING CONTROLLER AND CABINET
	SIGNAL SECTION 12"
	LEFT TURN YELLOW
	LEFT TURN GREEN
	RETROFIT EXISTING TRAFFIC SIGNAL WITH LED HEADS

FILE NAME = D36856-SHT-TS-CABLE-STATE-IL47-GALENA.DGN

USER NAME = ---

DESIGNED - --
 DRAWN - ARR/NV

REVISED - ---
 REVISIONS - ---
 CHECKED - JKC
 REVISIONS - ---
 DATE - 10/11
 REVISED - ---

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN
 STATE - IL 47 & GALENA ROAD
 SCALE: 1" = 20' SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

F.A. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
 -- D-3 LED RETROFIT 2012-3 * 29 26
 CONTRACT NO. 66B56
 ILLINOIS FED. AID PROJECT

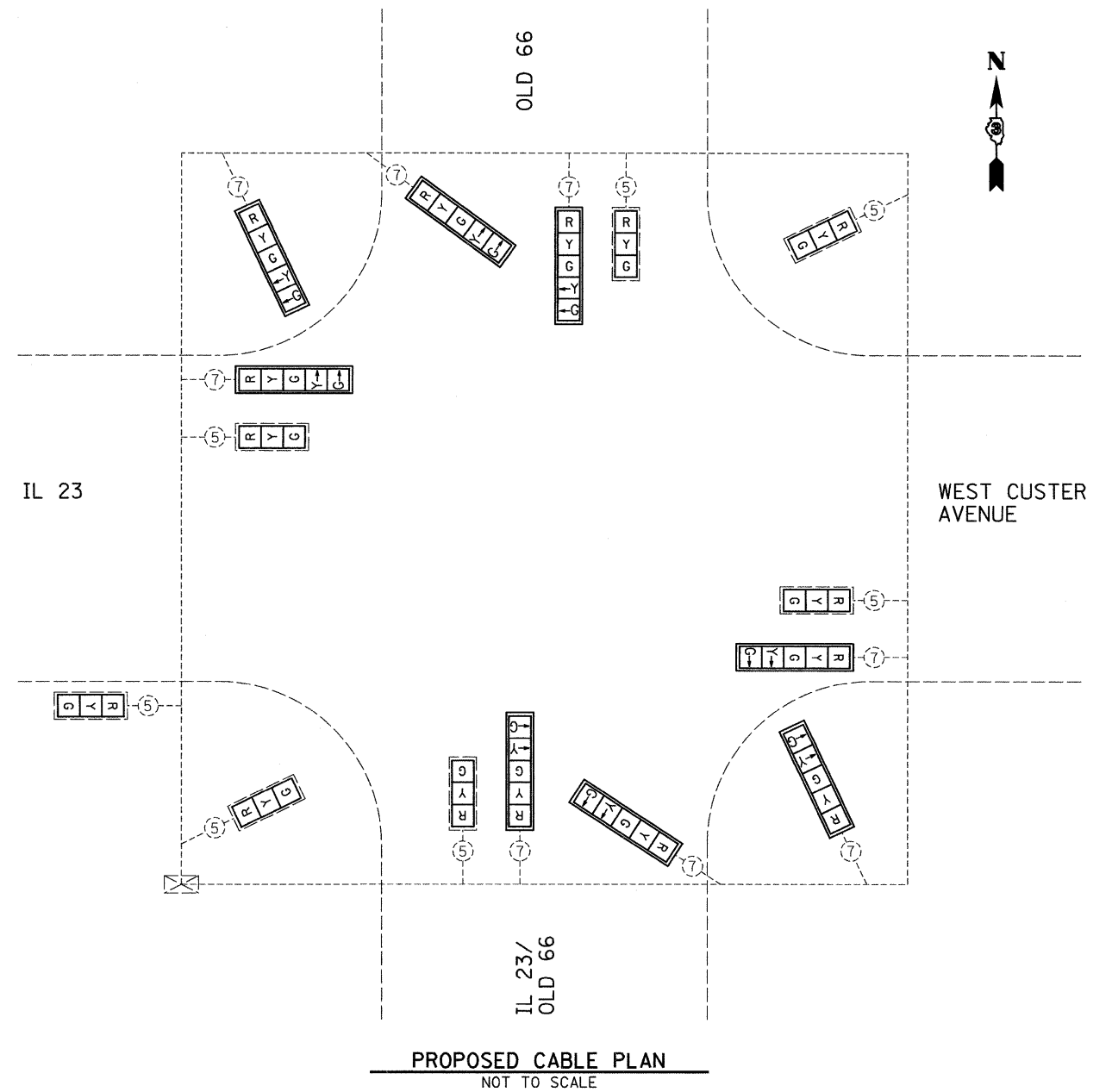
* FORD, GRUNDY, KENDALL & LIVINGSTON

ELECTRICAL LOAD FOR INTERSECTION				
STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURNTIME %
IL 23 / OLD 66	RED	12	7	35
	YELLOW	12	12	5
	GREEN	12	9.5	60
	YELLOW ARROW LT.	4	6	5
	GREEN ARROW LT.	4	6	10
	YELLOW ARROW RT.	2	6	5
WEST CUSTER AVENUE	RED	3	7	60
	YELLOW	3	12	5
	GREEN	3	9.5	35
	YELLOW ARROW RT.	2	6	5
	GREEN ARROW RT.	2	6	10
TRAFFIC SIGNAL CABINET	CONTROLLER	1	6	100
	UPS	1	50	100

THERE MAY BE ADDITIONAL ELECTRICAL LOADS DUE TO LIGHTING AND EMERGENCY VEHICLE DETECTION EQUIPMENT.
 AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
 CITY OF PONTIAC

CONSTRUCTION NOTES:

MODIFY EXISTING CONTROLLER CABINET.
 INSTALL UNINTERRUPTABLE POWER SUPPLY.
 REMOVE AND REPLACE EIGHT (8) 4-SECTION HEADS WITH LED 5-SECTION HEADS.
 RETROFIT THE SEVEN (7) 3-SECTION HEAD WITH LED SIGNAL HEAD.
 REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
 4 EACH - SIGNAL HEAD, 1-FACE, 4-SECTION, BRACKET MOUNTED
 4 EACH - SIGNAL HEAD, 1-FACE, 4-SECTION, MAST ARM MOUNTED
 THE RED BALLS OF THE NEW MAST ARM MOUNTED 5-SECTION SIGNAL HEADS SHALL BE POSITIONED TO MATCH THE EXISTING LOCATION OR TO PROVIDE 16' MINIMUM VERTICAL CLEARANCE, WHICHEVER IS GREATER.
 BRACKET MOUNTED SIGNAL HEADS SHALL MATCH EXISTING LOCATION.
 THE EXISTING MAST ARM MOUNTED 3-SECTION SIGNAL HEADS FOR NORTHBOUND OLD 66 AND WESTBOUND IL 23 TRAFFIC SHALL BE ADJUSTED VERTICALLY SO THAT THEIR RED BALLS LINE UP WITH THE RED BALL OF THE NEW 5-SECTION SIGNAL HEAD. THIS WORK WILL REQUIRE ALTERATION OR REPLACEMENT OF COMPONENTS OF THE MOUNTING SYSTEM TO ALLOW FOR AND TO CLOSE OPENINGS FOR WIRING. THIS WORK WILL BE PAID FOR AS RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT.
 HOLES IN TRAFFIC SIGNAL POSTS AND MAST ARM POLES RESULTING FROM REMOVAL OF 4-SECTION SIGNAL HEADS SHALL BE COVERED WITH STAINLESS STEEL PLATES AND MOUNTING HARDWARE. THIS WORK WILL BE CONSIDERED INCLUDED IN THE COST OF REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.



PROPOSED CABLE PLAN
 NOT TO SCALE

SCHEDULE OF QUANTITIES (97.5% STATE / 2.5% CITY)

PONTIAC IL 23 & OLD 66			
ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
89501250	RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
Z0033002	LED SIGNAL FACE RETROFIT, RED BALL	EACH	7
Z0033004	LED SIGNAL FACE RETROFIT, GREEN BALL	EACH	7
Z0033008	LED SIGNAL FACE RETROFIT, YELLOW BALL	EACH	7

TRAFFIC SIGNALS LEGEND

(5)	DENOTES NUMBER OF EXISTING CONDUCTORS
[Cabinet Icon]	EXISTING CONTROLLER AND CABINET
[Signal Section Icon]	SIGNAL SECTION 12"
[Y-L Icon]	LEFT TURN YELLOW
[G-L Icon]	LEFT TURN GREEN
[Y-R Icon]	RIGHT TURN YELLOW
[G-R Icon]	RIGHT TURN GREEN
[Backplate Icon]	TRAFFIC SIGNAL BACKPLATE
[Retrofit Icon]	RETROFIT EXISTING TRAFFIC SIGNAL WITH LED HEADS

FILE NAME = 0366856-SHT-TS-CABLE-PONTIAC-IL23-OLD66.DGN

USER NAME = --

DESIGNED - --

REVISED - ---

PLOT SCALE = 1" = 20'

DRAWN - ARR/NV

REVISED - ---

PLOT DATE = 10/11

CHECKED - JKC

REVISED - ---

DATE - 10/11

REVISED - ---

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL CABLE PLAN
 PONTIAC - IL 23 & OLD 66**

* FORD, GRUNDY, KENDALL & LIVINGSTON

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	D-3 LED RETROFIT 2012-3	*	29	27

SCALE: 1" = 20'

SHEET NO. ___ OF ___ SHEETS

STA. _____ TO STA. _____

CONTRACT NO. 66B56

ILLINOIS FED. AID PROJECT

ELECTRICAL LOAD FOR INTERSECTION				
STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURNTIME %
IL 116 / OLD 66	RED	12	7	35
	YELLOW	12	12	5
	GREEN	12	9.5	60
	YELLOW ARROW LT.	6	6	5
	GREEN ARROW LT.	6	6	10
	YELLOW ARROW RT.	3	6	5
REYNOLDS STREET	RED	4	7	60
	YELLOW	4	12	5
	GREEN	4	9.5	35
	YELLOW ARROW LT.	2	6	5
	GREEN ARROW LT.	2	6	10
	YELLOW ARROW RT.	1	6	5
TRAFFIC SIGNAL CABINET	CONTROLLER	1	6	100
	UPS	1	50	100

THERE MAY BE ADDITIONAL ELECTRICAL LOADS DUE TO LIGHTING AND EMERGENCY VEHICLE DETECTION EQUIPMENT.
 AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
 CITY OF PONTIAC

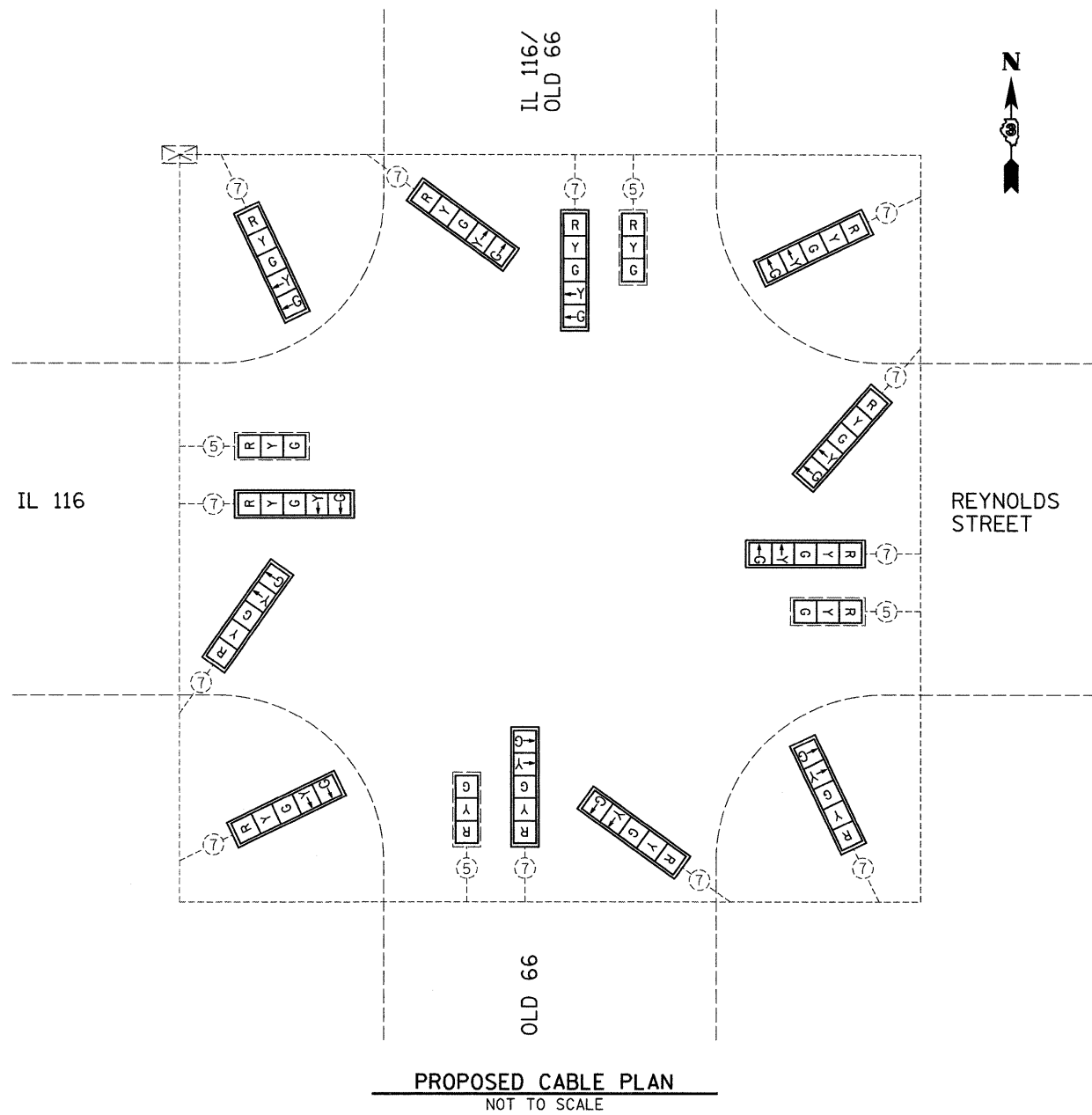
CONSTRUCTION NOTES:

MODIFY EXISTING CONTROLLER CABINET.
 INSTALL UNINTERRUPTABLE POWER SUPPLY.
 REMOVE AND REPLACE TWELVE (12) 4-SECTION HEADS WITH LED 5-SECTION HEADS.
 RETROFIT THE FOUR (4) 3-SECTION HEADS WITH LED SIGNAL HEADS.
 REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
 8 EACH - SIGNAL HEAD, 1-FACE, 4-SECTION, BRACKET MOUNTED
 4 EACH - SIGNAL HEAD, 1-FACE, 4-SECTION, MAST ARM MOUNTED
 THE RED BALLS OF THE NEW MAST ARM MOUNTED 5-SECTION SIGNAL HEADS SHALL BE POSITIONED TO MATCH THE EXISTING LOCATION OR TO PROVIDE 16' MINIMUM VERTICAL CLEARANCE, WHICHEVER IS GREATER.

BRACKET MOUNTED SIGNAL HEADS SHALL MATCH EXISTING LOCATION.

THE EXISTING MAST ARM MOUNTED 3-SECTION SIGNAL HEAD FOR WESTBOUND IL 116 TRAFFIC SHALL BE ADJUSTED VERTICALLY SO THAT IT'S RED BALL WILL LINE UP WITH THE RED BALL OF THE NEW 5-SECTION SIGNAL HEAD. THIS WORK WILL REQUIRE ALTERATION OR REPLACEMENT OF COMPONENTS OF THE MOUNTING SYSTEM TO ALLOW FOR AND TO CLOSE OPENINGS FOR WIRING. THIS WORK WILL BE PAID FOR AS RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT.

HOLES IN TRAFFIC SIGNAL POSTS AND MAST ARM POLES RESULTING FROM REMOVAL OF 4-SECTION SIGNAL HEADS SHALL BE COVERED WITH STAINLESS STEEL PLATES AND MOUNTING HARDWARE. THIS WORK WILL BE CONSIDERED INCLUDED IN THE COST OF REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.



PROPOSED CABLE PLAN
NOT TO SCALE

TRAFFIC SIGNALS LEGEND

	DENOTES NUMBER OF EXISTING CONDUCTORS
	EXISTING CONTROLLER AND CABINET
	SIGNAL SECTION 12"
	LEFT TURN YELLOW
	LEFT TURN GREEN
	RIGHT TURN YELLOW
	RIGHT TURN GREEN
	TRAFFIC SIGNAL BACKPLATE
	RETROFIT EXISTING TRAFFIC SIGNAL WITH LED HEADS

SCHEDULE OF QUANTITIES (97.5% STATE / 2.5% CITY)

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
PONTIAC IL 116 & OLD 66			
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	8
88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	12
89501250	RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
Z0033002	LED SIGNAL FACE RETROFIT, RED BALL	EACH	4
Z0033004	LED SIGNAL FACE RETROFIT, GREEN BALL	EACH	4
Z0033008	LED SIGNAL FACE RETROFIT, YELLOW BALL	EACH	4

FILE NAME = 0366856-SHT-TS-CABLE-PONTIAC-IL116-OLD66.DGN

USER NAME = ---
 PLOT SCALE = 1" = 20'
 PLOT DATE = 10/11

DESIGNED - --
 DRAWN - ARR/NV
 CHECKED - JKC
 DATE - 10/11

REVISED - ---
 REVISED - ---
 REVISED - ---
 REVISED - ---

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN
PONTIAC - IL 116 & OLD 66

SCALE: 1" = 20' SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	D-3 LED RETROFIT 2012-3	*	29	28
CONTRACT NO. 66B56				

* FORD, GRUNDY, KENDALL & LIVINGSTON

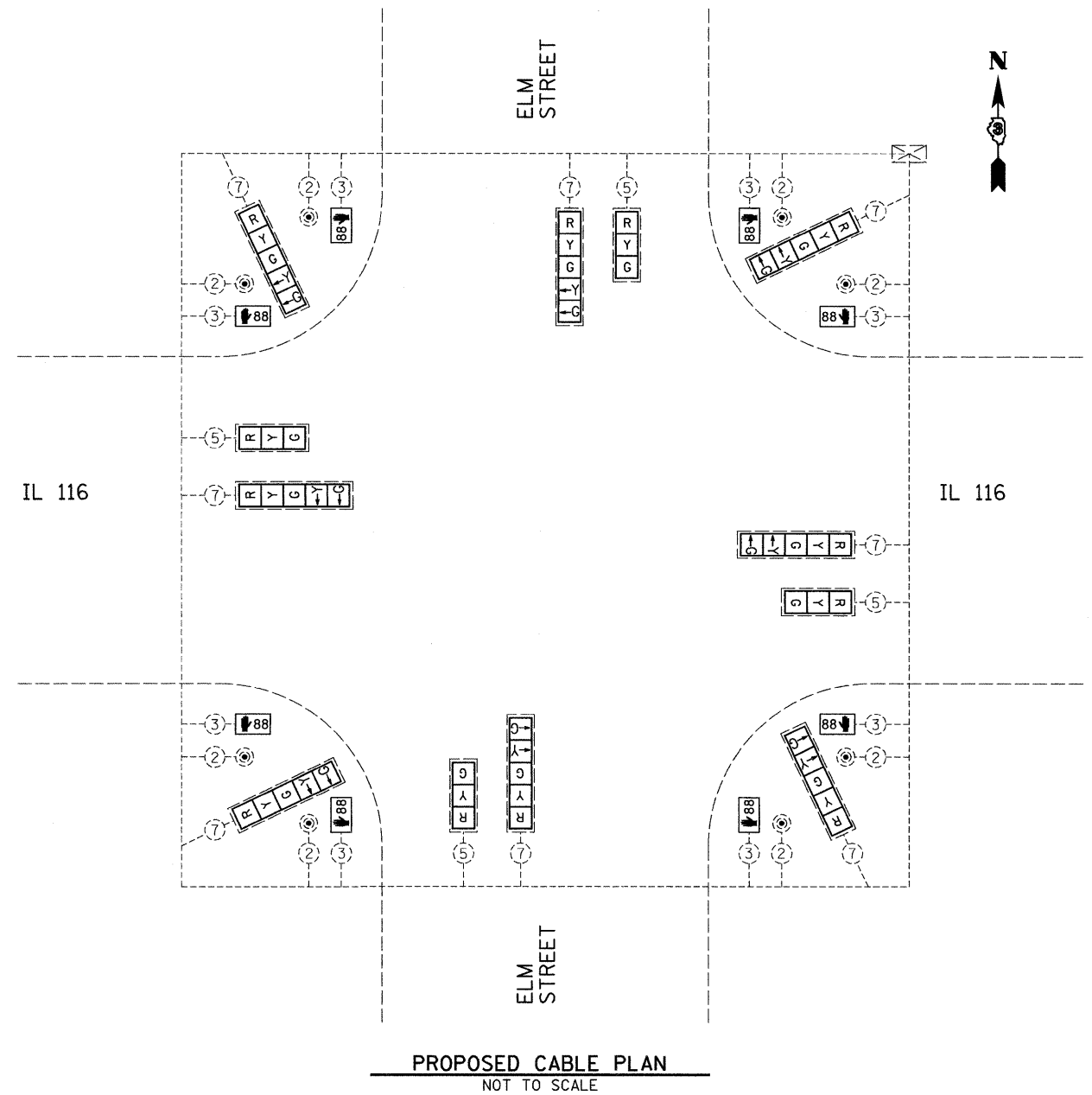
ILLINOIS FED. AID PROJECT

ELECTRICAL LOAD FOR INTERSECTION				
STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURNTIME %
IL 116	RED	6	7	35
	YELLOW	6	12	5
	GREEN	6	9.5	60
	YELLOW ARROW LT.	4	6	5
	GREEN ARROW LT.	4	6	10
		4	11/10	50/50
		4	8	50
ELM STREET	RED	6	7	60
	YELLOW	6	12	5
	GREEN	6	9.5	35
	YELLOW ARROW LT.	4	6	5
	GREEN ARROW LT.	4	6	10
		4	11/10	50/50
TRAFFIC SIGNAL CABINET	CONTROLLER	1	6	100
	UPS	1	50	100

THERE MAY BE ADDITIONAL ELECTRICAL LOADS DUE TO LIGHTING AND EMERGENCY VEHICLE DETECTION EQUIPMENT.
 AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
 CITY OF PONTIAC

CONSTRUCTION NOTES:

- MODIFY EXISTING CONTROLLER CABINET.
- INSTALL UNINTERRUPTABLE POWER SUPPLY.
- RETROFIT THE FOUR (4) 3-SECTION HEADS WITH LED SIGNAL HEADS.
- RETROFIT THE EIGHT (8) 5-SECTION HEADS WITH LED SIGNAL HEADS.
- REMOVE AND REPLACE EIGHT (8) PEDESTRIAN HEADS WITH LED PEDESTRIAN HEADS WITH COUNT DOWN TIMERS.
- REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
 8 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED



PROPOSED CABLE PLAN
NOT TO SCALE

SCHEDULE OF QUANTITIES (95% STATE / 5% CITY)

PONTIAC		IL 116 (HOWARD ST.) & ELM ST.	
ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	8
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
Z0033002	LED SIGNAL FACE RETROFIT, RED BALL	EACH	12
Z0033004	LED SIGNAL FACE RETROFIT, GREEN BALL	EACH	12
Z0033008	LED SIGNAL FACE RETROFIT, YELLOW BALL	EACH	12
Z0033010	LED SIGNAL FACE RETROFIT, YELLOW ARROW	EACH	8
Z0033012	LED SIGNAL FACE RETROFIT, GREEN ARROW	EACH	8

	DENOTES NUMBER OF EXISTING CONDUCTORS
	EXISTING CONTROLLER AND CABINET
	SIGNAL SECTION 12"
	LEFT TURN YELLOW
	LEFT TURN GREEN
	EXISTING PEDESTRIAN PUSH BUTTON
	PROPOSED WALK/DON'T WALK WITH COUNT DOWN TIMER
	RETROFIT EXISTING TRAFFIC SIGNAL WITH LED HEADS