

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

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# PROPOSED HIGHWAY PLANS

FAP ROUTE 742 (IL 2)  
SECTION (31, 78)TS-1  
D-92-012-15  
WINNEBAGO COUNTY

C-92-048-15



IL 2 AT THE INTERSECTIONS OF  
IL 2 NB (MAIN ST) WITH PARK AVE  
IL 2 SB (CHURCH ST) WITH PARK AVE

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

PROJECT MANAGER SCOTT KULLERSTRAND 815-284-5468

CONTRACT NO. 64K65



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED 3-5 2015

Paul A. Luster  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 8 2015  
John D. Baranzelli, PE  
ENGINEER OF DESIGN AND ENVIRONMENT

May 8 2015  
Onor Osman, PE  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

**SUMMARY OF QUANTITIES**

URBAN  
100% State  
0021

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
42400100	PORTLAND CEMENT SIDEWALK 4 INCH	SQ FT	33.0
44000600	SIDEWALK REMOVAL	SQ FT	33.0
67100100	MOBILIZATION	L SUM	1
70102630	Traffic Control & Protection, Standard 701601	L SUM	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1
70102620	Traffic Control & Protection, Standard 701501	L SUM	1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1
* 72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	35
80500100	SERVICE INSTALLATION, TYPE A	EACH	1
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	20
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT	EACH	5
85000300	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	L SUM	1
85700100	FULL-ACTUATED CONTROLLER & TYPE III CABINET	EACH	2
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	76
87700140	STEEL MAST ARM ASSEMBLY AND POLE, 20 FT	EACH	1
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION BRACKET MOUNTED	EACH	9

TX

\*SPECIALTY ITEM

FILE NAME S:\Justin\64K65.dgn	USER NAME jrusfeldtj	DESIGNED DRAWN	REVISED REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL UPGRADE SUMMARY OF QUANTITIES	F.A.P. RTE. 742	SECTION (31, 78)TS-1	COUNTY WINNEBAGO	TOTAL SHEETS 11	SHEET NO. 2		
PLCT SCALE 1/8" = 1'-0"	PLCT DATE Feb-26-2015 09:47:25 AM	CHECKED DATE	REVISED REVISED			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT CONTRACT NO. 64K65			

**SUMMARY OF QUANTITIES**

*URBAN*  
100% State  
*0021*

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED, WITH COUNTDOWN TIMER	EACH	16
88200100	TRAFFIC SIGNAL BACK-PLATE	EACH	6
89500120	REMOVE EXISTING SERVICE INSTALLATION	EACH	1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	1

6  
\*SPECIALTY ITEM



## GENERAL NOTES

This work is located on Illinois Route 2 at the intersections of IL 2 (Church St. and N. Main St. with Park Avenue ) of Region 2 IDOT, Districts 2.

All excavated material, which includes digging or grading of any soil shall be disposed of at a State approved site due to environmental documentation requirements. All areas disturbed by the Contractor shall be graded and seeded at Contractors expense, incidental to work being performed.

The cost of sidewalk replacement over the removed foundation is included in the Bid Item; REMOVE EXISTING CONCRETE FOUNDATION ( $A=3.14*1^2=3.14$  sq ft). However, all additional sidewalk removal and replacement shall be paid for at pay item PORTLAND CEMENT SIDEWALK 4 INCH and SIDEWALK REMOVAL respectively. The cost of saw cutting the sidewalk shall be included in the cost of SIDEWALK REMOVAL.

When removing and replacing the Mast-arm Assembly at new location in the NE Quad. of N. Main and Park Ave.(appox 15ft North), the existing cable for the vertical rise of the pole and length in the mast-arm assembly shall be used and placed into the new underground conduit and spliced in the base of the new pole. A secure and water tight connection shall be made between the 2 inch galvanized and 2 inch pvc conduit and will be incidental to pay item UNDERGROUND CONDUIT, PVC, 2" DIA. The splice in the base of the mast-arm assembly will be incidental to pay item ELECTRICAL CABLE IN CONDUIT, SIGNAL NO. 14 5C.

During construction operations when signals are not functioning (dark), the intersection shall be signed and treated as all-way stop controlled, Temporary "STOP" signs shall be placed between travel lanes and "BE PREPARED TO STOP" signs shall be placed 150ft (+/-) prior to the intersection. This will be paid for under pay item, TRAFFIC CONTROL AND PROTECTION, STANDARD 701701. All signals will be functioning at the end of each work day.

The pay item; REMOVING EXISTING TRAFFIC SIGNAL EQUIPMENT, work will be paid for per intersection. This work shall consist of removing all the existing traffic signal equipment to be replaced at the following intersections: Church Street (IL 2) & Park Ave. and N. Main (IL 2) and Park Ave. This work will be paid for at the contract unit price each, per intersection, for REMOVING EXISTING TRAFFIC SIGNAL EQUIPMENT, which price shall be payment in full for removing the equipment and disposing of it as directed. This work shall consist of the removal : 5-traffic signal posts, 2-controller cabinets, 1-mast arm assembly and pole, 9-3 section bracket mounted signal heads, 6-3 section mast arm mounted signal heads including back-plates, and 16-pedestrian signal heads. The 12 inch signal heads shall be saved in good condition and delivered to the City of Rockford Maintenance Yard as part the REMOVING EXISTING TRAFFIC SIGNAL EQUIPMENT pay item.

FILE NAME = S:\Justin\64K65.dgn	USER NAME = ruxfeldtJJ	DESIGNED - _____	REVISED - _____	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC SIGNAL UPGRADE SCHEDULE OF QUANTITIES</b>	F.A.P. RTE. 742	SECTION (31, 78)TS-1	COUNTY WINNEBAGO	TOTAL SHEETS 11	SHEET NO. 5
PLOT SCALE = 41.210' / in		CHECKED - _____	REVISED - _____	SCALE: _____ SHEET NO. ____ OF ____ SHEETS STA. _____ TO STA. _____		CONTRACT NO. 64K65		ILLINOIS FED. AID PROJECT		
PLOT DATE = Feb-27-2015 11:00:22 AM		DATE - _____	REVISED - _____							

GENERAL NOTES (continued)

The electrical service shut-off for N. Main and Park Ave. is located in the basement of the Coronado Theater. Please contact the City of Rockford Traffic Signals Department if access is needed to the signals service shut-off. The existing service for N. Main and Park Ave. is to remain in place.

The pay item, FULL-ACTUATED CABINET CONTROLLER AND TYPE III CABINET, shall fit on the existing base with dimensions of 1.5 ft x 2.5ft. The existing cabinet/foundation anchor bolts are beyond their life expectancy at both N. Main and Church intersections with Park Ave.. The existing anchor bolts shall be removed flush with the base of the foundation and new anchor bolts shall be drilled and epoxied, the work will be included in the pay item, FULL-ACTUATED CONTROLLER AND TYPE III CABINET.

The existing count-loops at the intersection of Church St. and Park Ave. can be abandon in the base of the new cabinet.

No overnight lane closures will be allowed, unless emergency conditions exist.

The work site shall be left in a safe and orderly condition. No material should be left on or near the roadway.

Electronic files and/or electronic survey information including CADD files will not be available for this project to the contractor.

The contractor is advised that there may be presence of department-owned underground electrical cable within the limits of the proposed improvement. The department is not a member of the Joint Utility Locating Information for Excavators (JULIE) system.

All damage to department owned underground facilities, caused by the contractor shall be repaired to the satisfaction of the department at the contractor's expense. This shall include all temporary repairs required to keep the facility operational while material is being obtained to make permanent repairs.

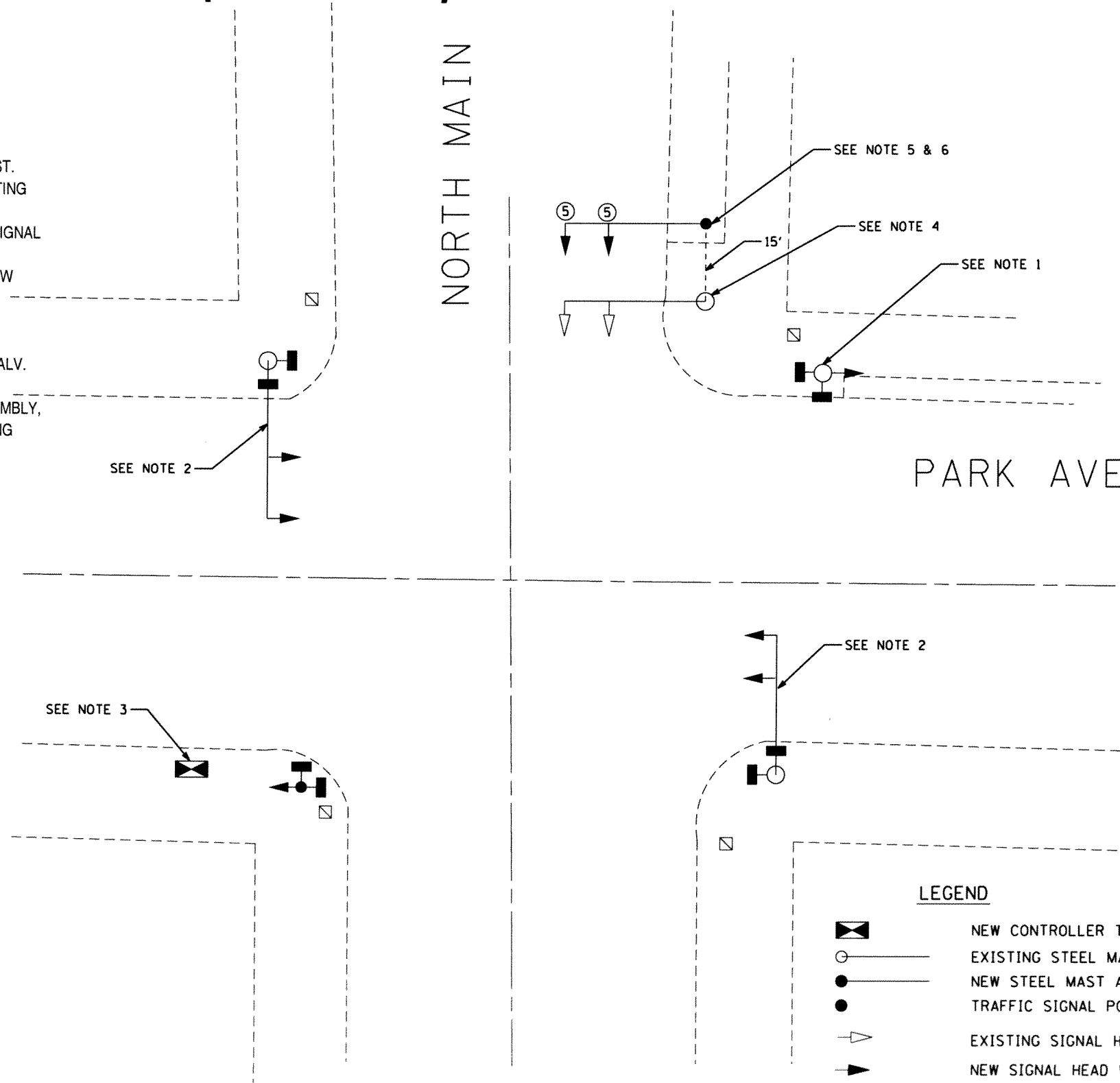
The contractor shall be responsible for protecting utility property from construction operations as outlined in Article 107.31 of the Standard Specifications, the J.U.L.I.E. number is 1-800-892-0123. A minimum of 48 hours advance notice is required.

FILE NAME = S:\Justin\64K65.dgn	USER NAME = musfeldtj	DESIGNED - _____	REVISED - _____	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC SIGNAL UPGRADE SCHEDULE OF QUANTITIES</b>	F.A.P. RTE.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = Feb-26-2015 08:51:17 AM	DATE - _____	REVISED - _____	CONTRACT NO. <b>64K65</b>			ILLINOIS FED. AID PROJECT				
				SCALE: _____	SHEET NO. _____ OF _____ SHEETS	STA. _____ TO STA. _____				

# IL 2 (N. MAIN) AT PARK AVE

## GENERAL NOTES - SIGNALS

1. REMOVE THE EXISTING SIGNAL HEADS, PEDESTRIAN HEADS AND POST. INSTALL NEW SIGNAL HEAD, PEDESTRIAN HEADS AND POST ON EXISTING FOUNDATION.
2. REMOVE EXISTING SIGNAL AND PEDESTRIAN HEADS. INSTALL NEW SIGNAL AND PEDESTRIAN HEADS AT THE SAME LOCATION.
3. REMOVE THE EXISTING CONTROLLER AND CABINET. INSTALL THE NEW CONTROLLER AND CABINET ON EXISTING FOUNDATION AT SAME LOCATION.
4. REMOVE THE EXISTING SIGNAL HEADS, MAST ARM, POST, AND FOUNDATION. COUPLE AND CONTINUE PVC CONDUIT TO EXISTING GALV. AT FOUNDATION.
5. CONSTRUCT A NEW FOUNDATION AND INSTALL NEW MAST ARM ASSEMBLY, POST AND SIGNAL HEADS. RELOCATE EXISTING SIGNS FROM EXISTING MAST ARM ASSEMBLY IN SAME QUAD.
6. THE EXACT LOCATION OF THE MAST ARM ASSEMBLIES SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

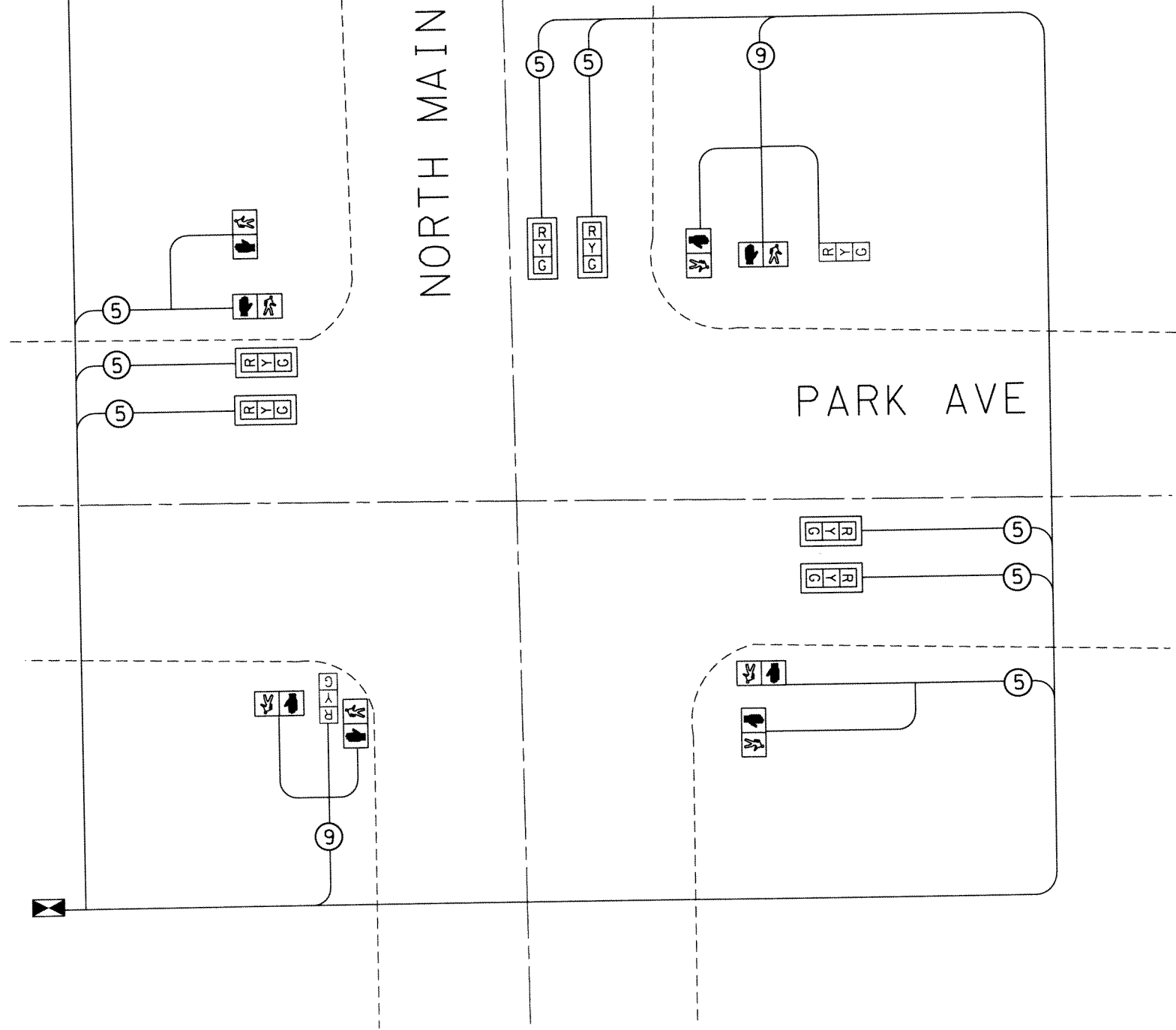


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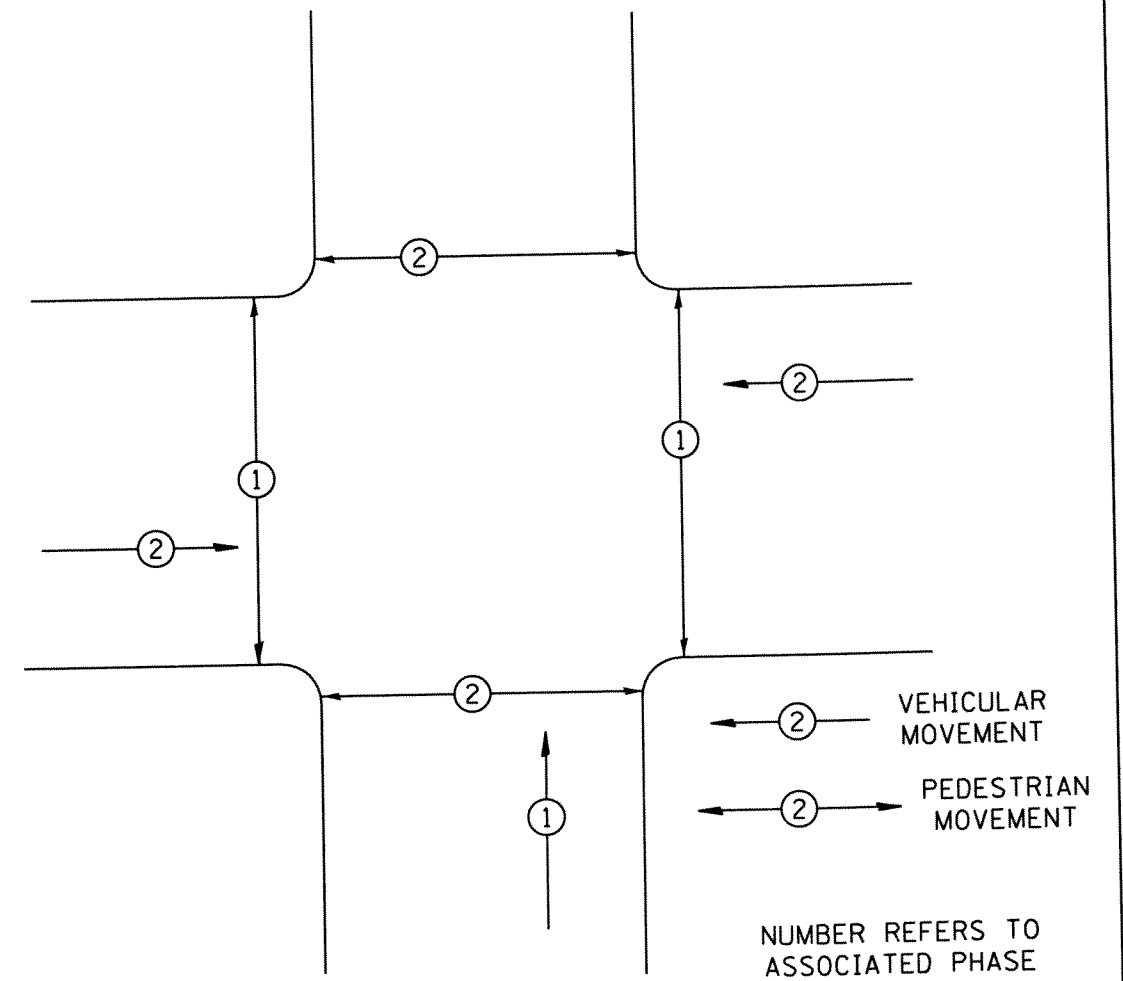
- NEW CONTROLLER T3
- EXISTING STEEL MAST ARM ASSEMBLY AND POLE
- NEW STEEL MAST ARM ASSEMBLY AND POLE
- TRAFFIC SIGNAL POST 14 FT
- EXISTING SIGNAL HEAD
- NEW SIGNAL HEAD WITH OR WITHOUT BACKPLATE
- NEW PEDESTRIAN HEAD WITH COUNTDOWN TIMER
- EXISTING HANDHOLE
- CONDUIT 2"
- ELECTRIC CABLE No. 14 5C

FILE NAME = Sr\Justin\64K65.dgn	USER NAME = rusfeldtj	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC SIGNAL UPGRADE PLAN SHEETS</b>		F.A.P. RTE. 742	SECTION (31, 78)TS-1	COUNTY WINNEBAGO	TOTAL SHEETS 11	SHEET NO. 7	
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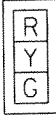
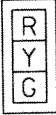

# IL 2 (N. MAIN) AT PARK AVE



## PHASE DESIGNATION DIAGRAM



### LEGEND

-  EXISTING SIGNAL HEAD WITH OR WITHOUT BACKPLATE
-  NEW SIGNAL HEAD WITH OR WITHOUT BACKPLATE
-  NEW PEDESTRIAN HEAD - LED
- ⑤ EXISTING CABLE IN CONDUIT

FILE NAME =  
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USER NAME = rufeldtjj  
 PLOT SCALE = 41.890' / in.  
 PLOT DATE = Feb-26-2015 08:52:11 AM

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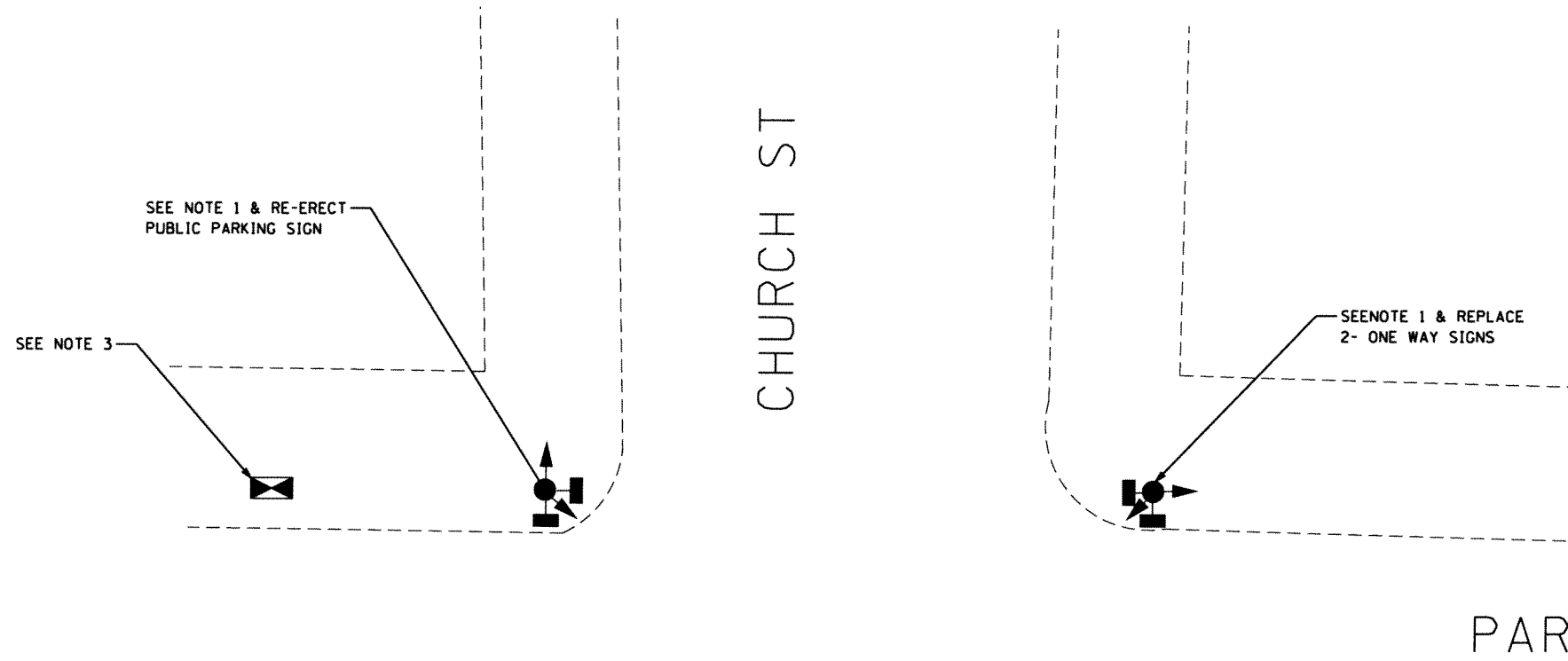
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL UPGRADE  
 PLAN SHEETS  
 SCALE: \_\_\_\_\_ SHEET NO. \_\_\_\_ OF \_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

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 Contract 64K65

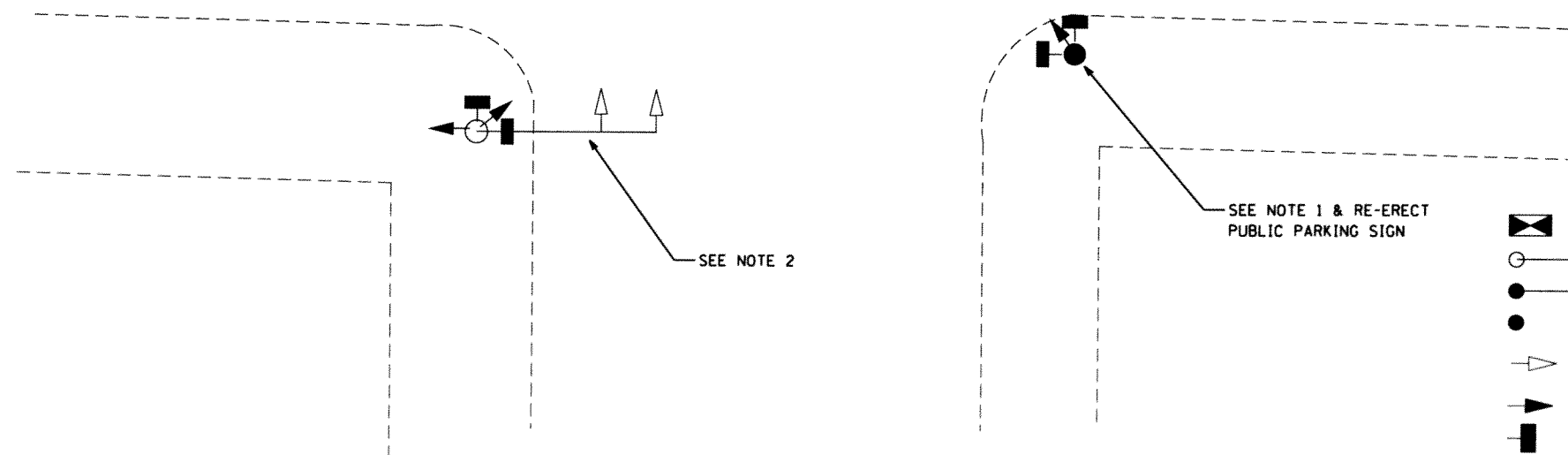


# IL 2 (CHURCH ST) AT PARK AVE



## GENERAL NOTES - SIGNALS

1. REMOVE THE EXISTING SIGNAL HEADS, PEDESTRIAN HEADS AND POST. INSTALL NEW SIGNAL HEAD, PEDESTRIAN HEADS AND POST ON EXISTING FOUNDATION.
2. REMOVE EXISTING SIGNAL AND PEDESTRIAN HEADS. INSTALL NEW SIGNAL AND PEDESTRIAN HEADS AT THE SAME LOCATION.
3. REMOVE THE EXISTING CONTROLLER AND CABINET. INSTALL THE NEW CONTROLLER AND CABINET ON EXISTING FOUNDATION AT SAME LOCATION.
4. REMOVE THE EXISTING SIGNAL HEADS, MAST ARM, POST, AND FOUNDATION. COUPLE AND CONTINUE PVC CONDUIT TO EXISTING GALV. AT FOUNDATION.
5. CONSTRUCT A NEW FOUNDATION AND INSTALL NEW MAST ARM ASSEMBLY, POST AND SIGNAL HEADS. RELOCATE EXISTING SIGNS FROM EXISTING MAST ARM ASSEMBLY IN SAME QUAD.
6. THE EXACT LOCATION OF THE MAST ARM ASSEMBLIES SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

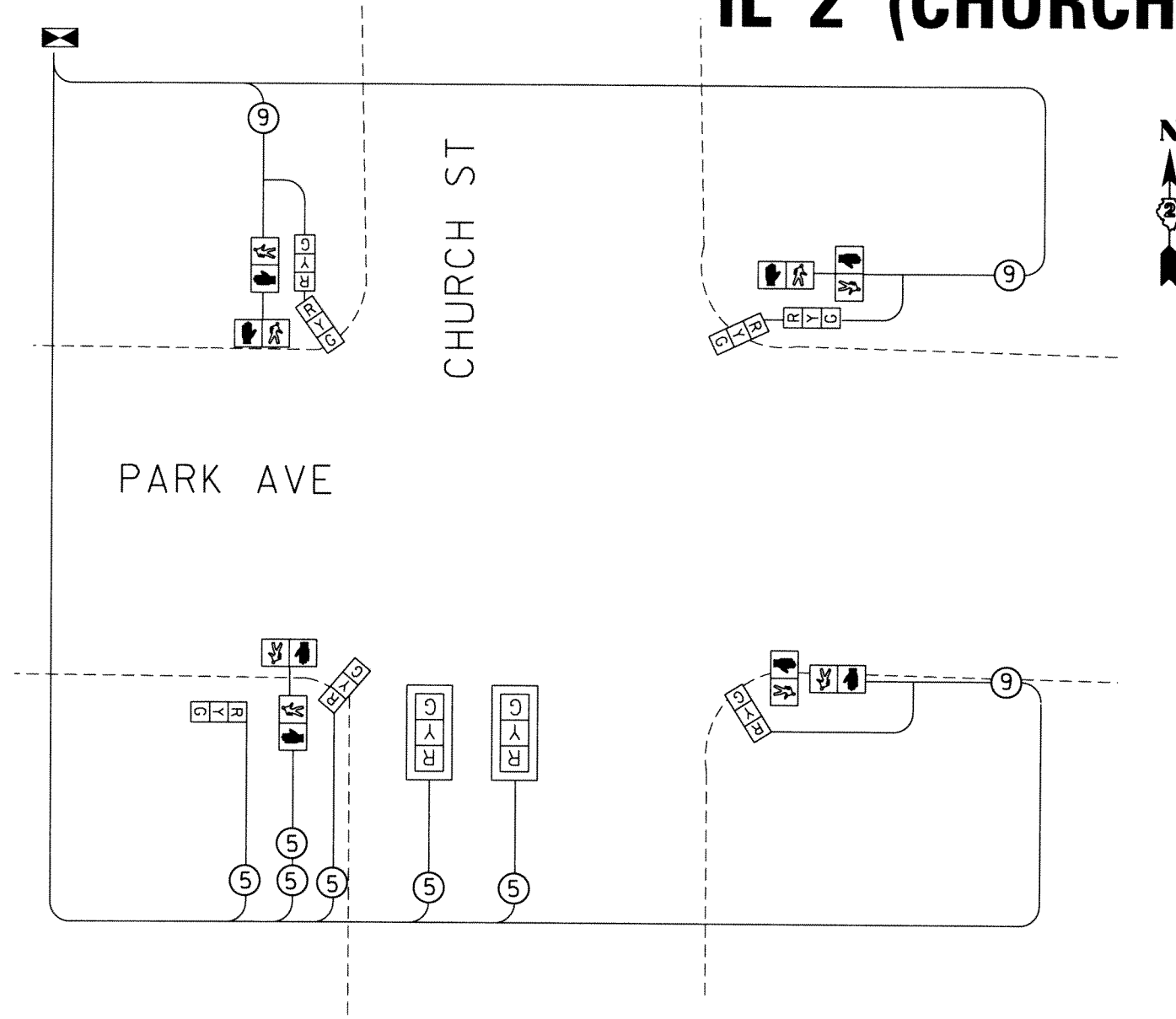


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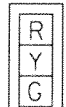
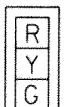


- NEW CONTROLLER T3
- EXISTING STEEL MAST ARM ASSEMBLY AND POLE
- NEW STEEL MAST ARM ASSEMBLY AND POLE
- TRAFFIC SIGNAL POST 14 FT
- EXISTING SIGNAL HEAD
- NEW SIGNAL HEAD WITH OR WITHOUT BACKPLATE
- NEW PEDESTRIAN HEAD WITH COUNTDOWN TIMER
- EXISTING HANDHOLE
- CONDUIT 2"
- ELECTRIC CABLE No. 14 5C

FILE NAME = Sr\Justin\64K65.dgn	USER NAME = rusfeldtj	DESIGNED - _____	REVISED - _____	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC SIGNAL UPGRADE PLAN SHEETS</b>	F.A.P. RTE. 742	SECTION (31, 78)TS-1	COUNTY WINNEBAGO	TOTAL SHEETS 11	SHEET NO. 9	
PLOT SCALE = 41.210' / in.	CHECKED - _____	REVISED - _____	SCALE: _____			SHEET NO. _____ OF _____ SHEETS	STA. _____ TO STA. _____	ILLINOIS FED. AID PROJECT		CONTRACT NO. 64K65	
PLOT DATE = Feb-26-2015 08:52:40 AM	DATE - _____	REVISED - _____									

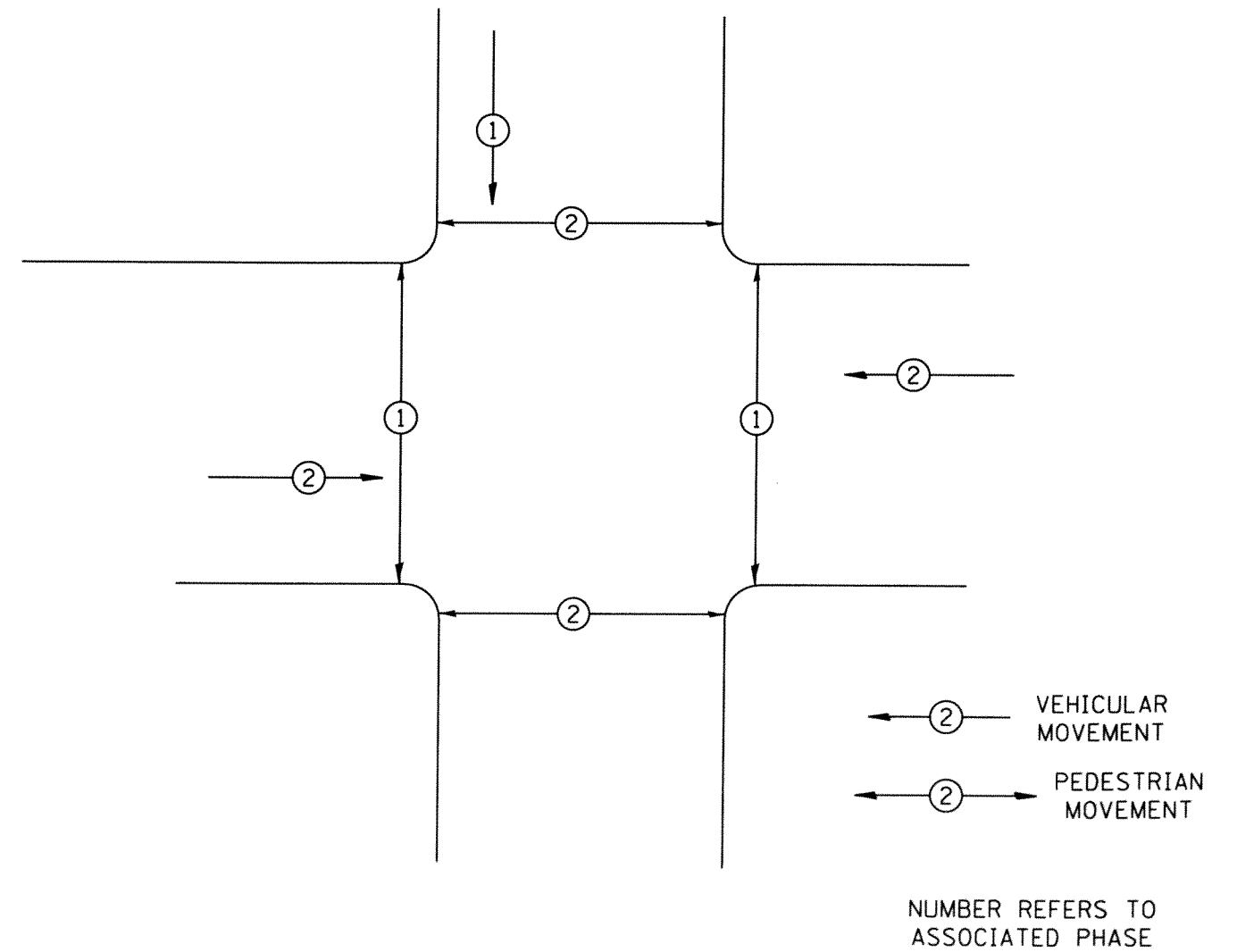
# IL 2 (CHURCH ST) AT PARK AVE



### LEGEND

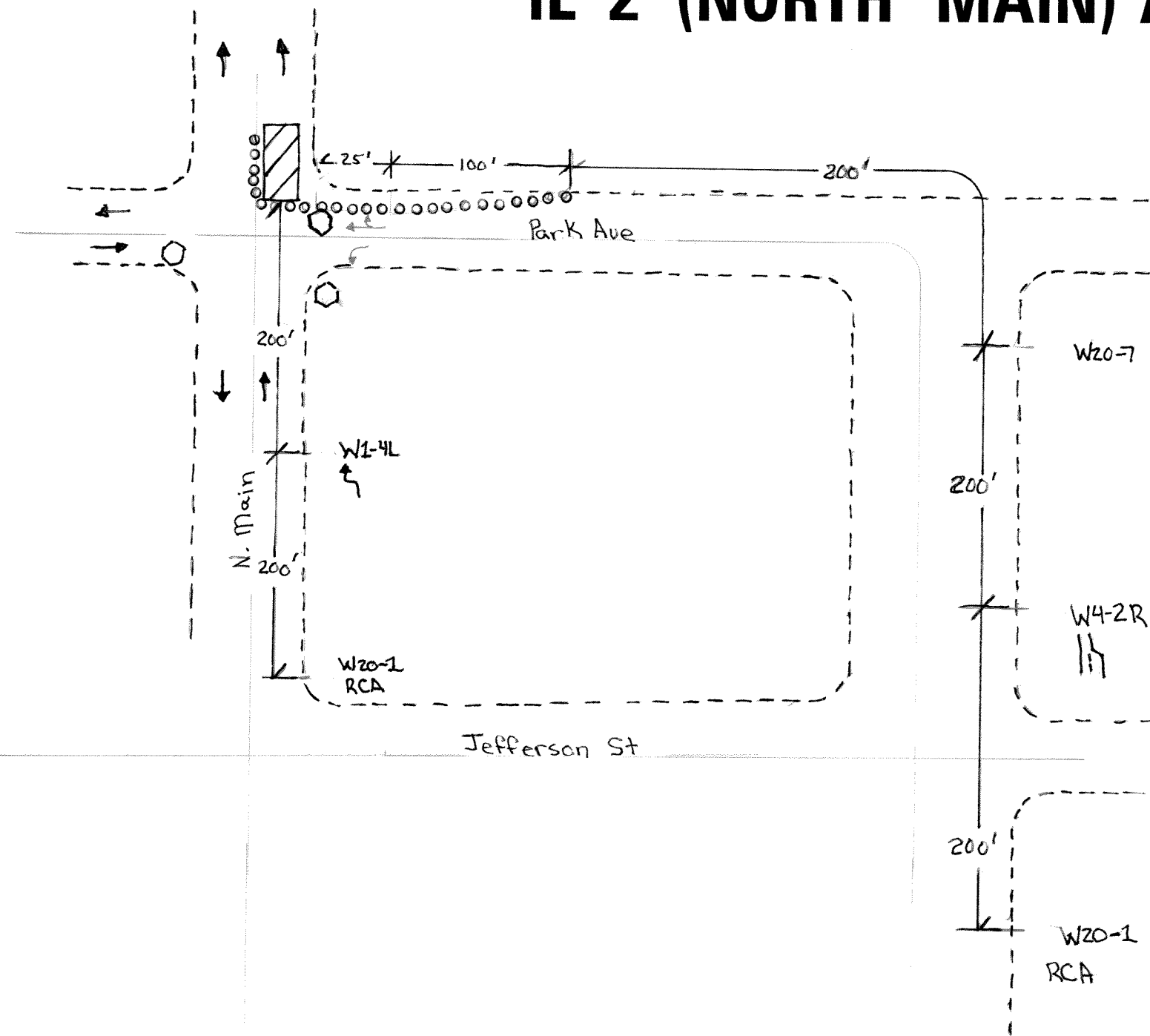
-  EXISTING SIGNAL HEAD WITH OR WITHOUT BACKPLATE
-  NEW SIGNAL HEAD WITH OR WITHOUT BACKPLATE
-  NEW PEDESTRIAN HEAD - LED
-  EXISTING CABLE IN CONDUIT

### PHASE DESIGNATION DIAGRAM

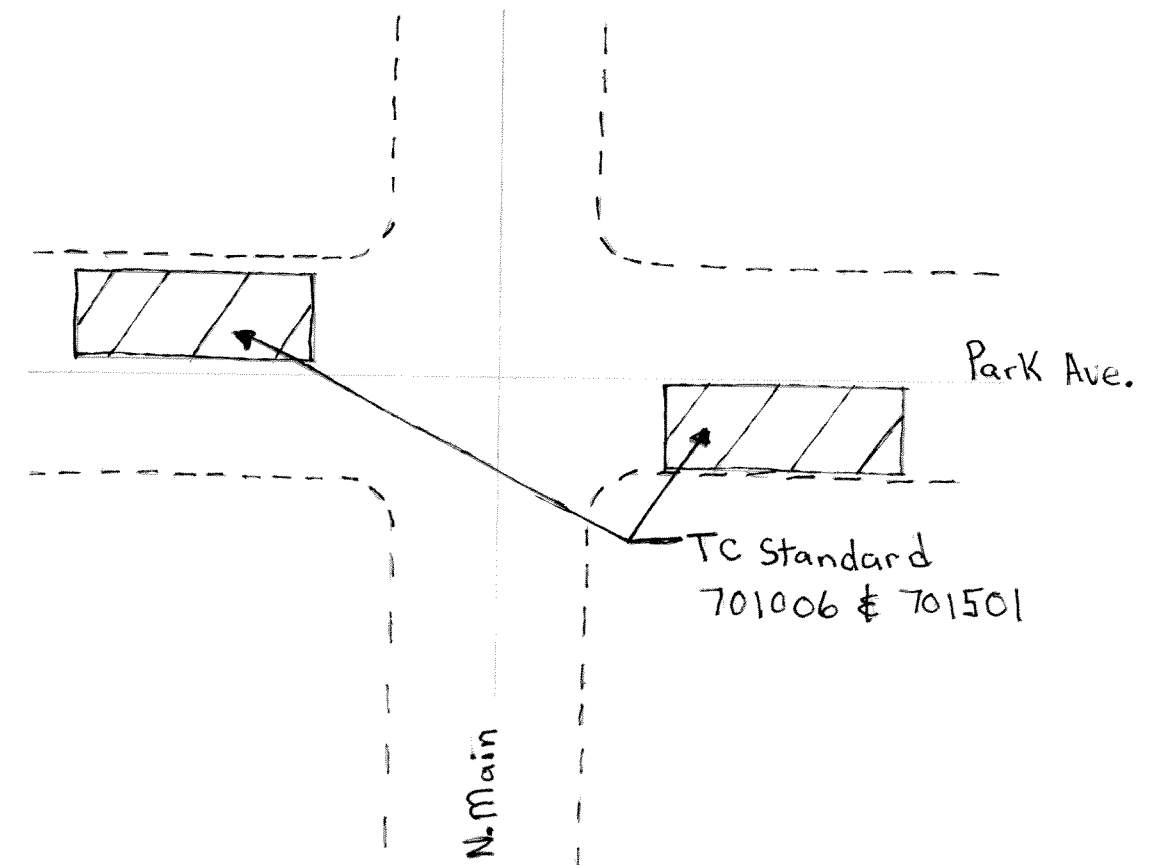


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PLOT SCALE = 41.218' / in.		CHECKED -	REVISED -	SCALE: _____ SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____		CONTRACT NO. 64K65				
PLOT DATE = Feb-26-2015 09:53:02 AM		DATE -	REVISED -	ILLINOIS FED. AID PROJECT						

# IL 2 (NORTH MAIN) AT PARK AVE



When working on north leg of North Main, use Traffic Control Standard, 701501. Close right-turn lane of Park Ave and maintain a Stop Controlled intersection when signals are dark. The adjacent detail shall be followed during a lane closure for north leg of North Main and shall be paid for as Traffic Control, Standard 701501



FILE NAME = S:\Justin\64K65.dgn	USER NAME = rusfeldt,j	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC SIGNAL UPGRADE PLAN SHEETS</b>		F.A.P. RTE. 742	SECTION (31, 781TS-1)	COUNTY WINNEBAGO	TOTAL SHEETS 11	SHEET NO. 10	
PLOT SCALE = 41.218' / in.	CHECKED -	REVISED -	REVISED -		SCALE: _____	SHEET NO. _____ OF _____ SHEETS	STA. _____ TO STA. _____	CONTRACT NO. 64K65				
PLOT DATE = Feb-26-2015 07:18:32 AM	DATE -	REVISED -	REVISED -		ILLINOIS FED. AID PROJECT							